



Technical Committee Meeting Agenda

Wednesday, September 27, 2017

9:00 AM

Committee Room 2nd Floor
Durham City Hall 101 City Hall Plaza
Durham, NC 27701

1. Roll Call
2. Adjustments to the Agenda
3. Public Comment

CONSENT AGENDA

4. **Approval of the August 23, 2017 TC Meeting Minutes**

[17-176](#)

A copy of the August 23, 2017 minutes is enclosed.

TC Action: Approve the minutes of the August 23, 2017 TC meeting.

Attachments: [2017-09-27 \(17-176\) TC Meeting Minutes 8.23.17.pdf](#)

ACTION ITEMS

5. 2045 Metropolitan Transportation Plan (MTP) (30 minutes)[17-155](#)**Andy Henry, LPA Staff**Background

The MPO Board released the Alternatives Analysis in August and conducted a public hearing at their September meeting. Staff has conducted workshops and presented the 2045 MTP at various meetings with boards, commission and elected officials from the different counties and jurisdictions in the MPO planning area. The public comment period officially ended Wednesday, September 20th, however, MPO staff will continue to accept comments and will send an updated compilation to the Board for their October meeting.

Preferred Option

The project list, maps and financial table will be posted to both the Granicus and MPO (www.bit.ly/DCHC-MTP) Websites by early Monday morning, September 25th. The contents will be:

- * Socioeconomic Data (SE Data) -- guide totals, and population and employment growth maps
- * Highway projects -- project list and map
- * Transit projects -- based on the county plans; will include service levels (e.g., bus service hours) and maps of fixed-guideways but no detailed project list
- * Bicycle and pedestrian projects -- based on local plans; will reference local plans and the MPO's Comprehensive Transportation Plan (CTP) but there will not be a detailed project list
- * Financial Plan -- list of cost and revenue for the different modes by decade (i.e., 2035, 2035 and 2045) and by STI category (i.e., statewide, regional and division)

If one finds there is limited time to review the Preferred Option before the Technical Committee (TC) meeting, staff suggests focusing on the highway projects and financial plan, which have the most flexibility for change in the 2045 MTP.

Schedule and Report

The MTP is a larger report that includes policies and compliance information in addition to the projects and financial plan that the MPO plans to release in October and adopt in December. The MPO staff and its partners, CAMPO and TJCOG, have begun coordinating the writing of the full report of policies and compliance but it will not be ready for release in October. As a result, the full report will need to be released after October and could possibly delay the 2045 MTP adoption until January 2018. Staff will provide more information on this topic at the TC meeting based on a joint MPO meeting on September 22nd. See the attached table of contents from the 2040 MTP, which shows the contents of the full report.

TC Action: Review and provide comments on the Preferred Option and schedule, and forward the Preferred Option to the MPO Board to release for public comment.

Attachments: [2017-09-27 \(17-155\) 2040 MTP TOC.pdf](#)
 [2017-09-27 \(17-155\) PrOptRpt.pdf](#)

6. **FY2018 Unified Planning Work Program (UPWP) Amendment #1 (5 minutes)** [17-178](#)

Meg Scully, LPA Staff

Amendment #1 of the FY2018 UPWP proposes to obligate STBG-DA funds that had been de-obligated in prior years for the Lead Planning Agency and the Town of Chapel Hill, and de-obligate all Orange County funds. The attached memorandum and resolution with table provides details.

TC Action: Recommend the Board approve the FY2018 UPWP Amendment #1.

Attachments: [2017-09-27 \(17-178\) Memorandum FY18 UPWP Amend 1.pdf](#)
[2017-09-27 \(17-178\) 2018 UPWP amend 1 Res with table.pdf](#)

7. **Surface Transportation Block Grant -Direct Attributable (STBG-DA) and Transportation Alternative Program (TAP) Funding Distribution for FY2019 (5 minutes)** [17-179](#)

Meg Scully, LPA Staff

On October 14, 2015, the MPO Board approved the formula and policy to distribute STBG-DA and TAP funds to sub-recipients for fiscal years 2017 through 2025 with the expectation that each year, prior to development of the next year's Unified Planning Work Program (UPWP), the actual STBG-DA and TAP allocation to the DCHC MPO would be entered into the formula as would the most recent certified National Transit Database (NTD) data (to be used in calculating the distribution to transit agencies). Attached is a table with the actual FY19 STBG-DA and TAP funding available to the MPO and the allocation resulting from the formula. Approval of this allocation will commence the FY19 UPWP development as agencies may choose to use the allocation for planning purposes, and thus must program funds in the FY19 UPWP. The FY19 UPWP development schedule is also attached.

TC Action: Recommend the Board approve the FY2019 Distribution of STBG-DA and TAP funds.

Attachments: [2017-09-27 \(17-179\) FY19 STBG and TAP Distribution.pdf](#)
[2017-09-27 \(17-179\) 2019 UPWP development schedule.pdf](#)

8. Request for DCHC MPO Support for Town of Carrboro NCDOT [17-180](#)**Bicycle Planning Grant Application (5 minutes)****Tina Moon, Town of Carrboro**

The Town of Carrboro is preparing to submit an application to the NCDOT Bicycle and Pedestrian Division and the Transportation Planning Branch 2018 planning grant cycle. The Town of Carrboro received a grant in 2007 and applied the funding (approximately \$45,000) toward the development of the Town's Comprehensive Bicycle Transportation Plan, which was subsequently adopted in March 2009. An update of the bike plan aligns well with the Town's interest in seeking gold status in the League of American Bicyclists, Bicycle Friendly Communities Program during the upcoming round of consideration. A resolution of support from the MPO is a requirement of the grant application. A resolution to that effect is attached.

TC Action: Recommend that the MPO Board adopt the resolution in support of the Town of Carrboro's grant application to update its Comprehensive Bicycle Transportation Plan.

Attachments: [2017-09-27 \(17-180\) Resolution in Support of Carrboro Bicycle Planning Grant /](#)

9. Review of NCDOT Bicycle and Pedestrian Policy (10 minutes) [17-174](#)**Dale McKeel, LPA Staff**

In late June, DCHC MPO staff learned that the N.C. Board of Transportation is considering changes to the NCDOT Sidewalk and Pedestrian Policy. A Technical Committee subcommittee reviewed the existing Sidewalk and Pedestrian Policy and provided comments and suggestions for change. A letter based on these comments has been drafted for review prior to being provided to the MPO Board for consideration.

The existing bicycle policy is at:

[<http://www.ncdot.gov/bikeped/download/bikeped_laws_Bicycle_Policy.pdf>](http://www.ncdot.gov/bikeped/download/bikeped_laws_Bicycle_Policy.pdf)

The existing pedestrian policy is at:

[<http://www.ncdot.gov/bikeped/download/bikeped_Ped_Policy.pdf>](http://www.ncdot.gov/bikeped/download/bikeped_Ped_Policy.pdf)

TC Action: Review and provide comments on the letter and provide to the MPO Board for consideration at their October meeting.

Attachments: [2017-09-27 \(17-174\) Memorandum Bicycle-Pedestrian Policies.pdf](#)

10. Draft FY2018-27 Metropolitan Transportation Improvement Plan (20 minutes) [17-181](#)

Aaron Cain, LPA Staff

LPA staff is completing the Draft FY2018-27 Metropolitan Transportation Improvement Plan (MTIP). The MTIP is the document that defines the transportation projects that will be funded and scheduled over the next ten years.

The MTIP must be adopted and sent to NCDOT, FHWA, and the FTA by November 15, 2017. In order to meet this deadline, LPA staff will use the following schedule:

September 27, 2017 - Request that the TC recommend that the MPO Board release the

Draft FY2018-27 MTIP for a 21-day public comment period and hold a public hearing

October 11, 2017 - The MPO Board releases the Draft FY2018-27 MTIP for public comment

On or before October 18, 2017 - The Draft FY2018-27 MTIP is released for public comment

October 25, 2017 - TC reviews Draft FY2018-27 MTIP and provides comment

November 8, 2017 - MPO Board holds public hearing and adopts FY2018-27 MTIP

The Draft FY2018-27 MTIP will be distributed under separate cover prior to the TC meeting.

TC Action: Recommend that the MPO Board release the Draft FY2018-27 MTIP for public comment.

REPORTS FROM STAFF:

11. Report from Staff [17-107](#)

Felix Nwoko, LPA Staff

TC Action: Receive report from Staff.

Attachments: [2017-09-27 \(17-107\) LPA staff report.pdf](#)

12. Report from the Chair [17-108](#)

Ellen Beckmann, TC Chair

TC Action: Receive report from the TC Chair.

13. NCDOT Reports[17-109](#)

Joey Hopkins (David Keilson/Richard Hancock), Division 5 - NCDOT

Mike Mills (Pat Wilson/Ed Lewis), Division 7 - NCDOT

Brandon Jones (Bryan Kluchar, Jen Britt), Division 8 - NCDOT

Julie Bogle, Transportation Planning Branch - NCDOT

John Grant, Traffic Operations - NCDOT

TC Action: Receive reports from NCDOT.

Attachments: [2017-09-27 \(17-109\) NCDOT Progress Report.pdf](#)

INFORMATIONAL ITEMS:**14. NCDOT Community Meetings - PTD Strategic Plan**[17-182](#)

Attachments: [2017-09-27 \(17-182\) NCDOT PTD Strategic Plan Meetings.pdf](#)

Adjourn

Next meeting: October 25, 9 a.m., Committee Room

Dates of Upcoming Transportation-Related Meetings: None

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

TECHNICAL COMMITTEE

23 August 2017

MINUTES OF MEETING

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Technical Committee met on August 23, 2017, at 9:00 a.m. in the City Council Committee Room, located on the second floor of Durham City Hall. The following people were in attendance:

Ellen Beckmann (Chair)	City of Durham Transportation
Margaret Hauth (Vice Chair)	Hillsborough Planning
Kumar Neppalli (Member)	Chapel Hill Engineering
Hannah Jacobson (Member)	City of Durham Planning
Tasha Johnson (Member)	City of Durham Public Works
Tina Moon (Member)	Carrboro Planning
Bergen Watterson (Member)	Chapel Hill Planning
Linda Thomas Wallace (Member)	Durham County Cooperative Extension
Scott Whiteman (Member)	Durham County Planning
Laura Woods (Member)	Durham County Planning
Theo Letman (Member)	Orange Public Transportation
Tom Altieri (Member)	Orange County Planning
Cara Coppola (Member)	Chatham County Planning
John Hodges-Copple (Member)	Triangle J Council of Governments
Geoff Green (Member)	GoTriangle
Gretchen Coperine (Member)	Research Triangle Foundation
Julie Bogle (Member)	NCDOT, TPB
Kurt Stolka (Member)	UNC
Richard Hancock (Alternate)	NCDOT, Division 5
Ed Lewis (Alternate)	NCDOT, Division 7
Bryan Kluchar (Member)	NCDOT, Division 8
Matt Day (Alternate)	TJCOG
Andy Henry	DCHC MPO
Meg Scully	DCHC MPO
Brian Rhodes	DCHC MPO
Anne Phillips	DCHC MPO
Aaron Cain	DCHC MPO
Bill Judge	City of Durham Transportation
Evan Tenenbaum	City of Durham
Katherine Butler	Citizen

Quorum Count: 21 of 31 Voting Members

Chair Ellen Beckmann called the meeting to order at 9:03 a.m. A roll call was performed. The Voting Members and Alternate Voting Members of the DCHC MPO Technical Committee (TC) were identified and are indicated above. Chair Ellen Beckmann reminded everyone to sign-in using the sign-in sheet that was being circulated.

PRELIMINARIES:

2. Adjustments to the Agenda

There were no adjustments to the agenda.

3. Public Comments

Chair Ellen Beckmann asked if there were any members of the public signed up to speak. There were no members of the public signed up to speak during the meeting.

CONSENT AGENDA:

4. Approval of July 26, 2017, TC Meeting Minutes

Geoff Green made a motion to approve the July 26, 2017, TC meeting minutes. Hannah Jacobson seconded the motion. The motion passed unanimously.

ACTION ITEMS:

5. Approval of Amendment #11 to the FY2016-25 Transportation Improvement Plan

Aaron Cain, LPA Staff

NCDOT pushed back the concurrency and effectiveness date for the upcoming FY2018-27 TIP from October 1, 2017, to January 1, 2018. The result of this delay is that projects will not be able to access FY18 Surface Transportation Block Grant Direct Attribution (STBGDA) or Congestion Mitigation Air Quality Improvement (CMAQ) funds during the interim period. Aaron Cain listed the projects that were affected by the delay, and explained that Amendment #11 to the FY2016-25 TIP would allow these projects to access FY18 STBGDA and FY18 CMAQ funds in early October 2017.

John Hodges-Copple made a motion to recommend that the MPO Board approve Amendment #11 to the FY2016-25 Transportation Improvement Plan. Vice Chair Margaret Hauth seconded the motion. The motion passed unanimously.

6. SPOT P5.0 Project Recommendations

Aaron Cain, LPA Staff

Aaron Cain drew attention to the list of projects that the DCHC MPO will submit for Strategic Prioritization Office of Transportation (SPOT) 5.0 consideration, and explained why the DCHC MPO was submitting 24 highway projects instead of the allowed 23 projects. Aaron Cain stated that the DCHC MPO would also be submitting 23 bicycle and pedestrian projects, 21 transit projects, and 10 rail projects. Aaron Cain discussed reasons for submitting three proposed rail projects in spite of a request from the Rail Division to not submit these projects. Aaron Cain added that the scope and description of the projects on the list may be modified to allow them to score better.

Aaron Cain confirmed that the grade separation at Cornwallis Street was a committed project in response to a question from John Hodges-Copple. Aaron Cain and John Hodges-Copple discussed the possibility of submitting an improved grade separation project at Roxboro Road as both a highway and a rail project.

Chair Ellen Beckmann shed light on the SPOT subcommittee's decisions regarding the Hillsborough project on Eno Mountain Road, and Durham projects such as the roundabout at Alston Avenue and Riddle Road, the two-way conversion of Mangum Street and Roxboro Road, and the widening of the bridge under the North Carolina Railroad from Pettigrew Street to Main Street. John Hodges-Copple emphasized that scoring projects is not the same as programming projects. There was discussion of whether Roxboro Road is a state road and how that fact might affect scoring for the project.

Scott Whiteman and Chair Ellen Beckmann discussed the proposed tunnel project to connect the American Tobacco Trail and the Duke Belt Line Trail. There was discussion of the number of Durham

and Hillsborough projects that had not scored well using the MPO's preliminary scoring process. Aaron Cain, Chair Ellen Beckmann, and Ed Lewis discussed when the North Carolina Department of Transportation (NCDOT) Divisions would submit their projects, and whether the Divisions would submit bicycle and pedestrian projects that did not make the MPO's list of projects to submit. Aaron Cain and Ed Lewis discussed how the MPO could submit projects on the Divisions' behalf. Ed Lewis requested that Carrboro and Chapel Hill submit a bicycle and pedestrian project at Franklin and Merritt Mill Road in case plans for a roundabout at that location fall through. There was discussion of the best way to submit the bicycle and pedestrian project at Franklin Street and Merritt Mill Road. Ed Lewis emphasized that the MPO needs to be clear about what transportation problems submitted projects are trying to solve. There was discussion of how the Divisions develop their list of projects for SPOT submittal and whether the list of projects would be available by the September DCHC MPO Board meeting.

Chair Ellen Beckmann pointed out that projects need to be in the MPO's TIP and Metropolitan Transportation Plan (MTP) if they are to move forward, and that it is important that the MPO has time to consider whether it is committed to projects and whether local governments are committed to providing a 20% local match.

Chair Ellen Beckmann confirmed that the Roxboro Road project would be submitted as both a rail and a highway project in response to an inquiry from John Hodges-Copple.

Laura Woods made a motion to refer the list of highway, bicycle/pedestrian, transit, and rail projects to the DCHC MPO Board for approval and submission to SPOT 5.0. Tom Altieri seconded the motion. The motion passed unanimously.

7. 2045 Metropolitan Transportation Plan (MTP) -- Alternatives Analysis

Andy Henry, LPA Staff

Andy Henry reviewed the schedule for developing and adopting the MTP. He also discussed the plan for gathering public input for the MTP.

116 Matt Day discussed how TJCOG came up with revenues for the constrained, moderate, and
117 aspirational models. Matt Day discussed the assumptions that were used to create the three scenarios.
118 Matt Day confirmed that all three models assume the Strategic Transportation Initiative (STI) framework
119 in response to a question from Chair Ellen Beckmann. John Hodges-Copple pointed out that the
120 revenues are within the STI framework, but that it is important to keep in mind the revenue side versus
121 how revenues are spent.

122 Matt Day stated that he would focus on the aspirational scenario instead of the constrained and
123 moderate scenarios, because the aspirational scenario seems to be preferred based on discussions at
124 technical meetings. Matt Day discussed the funding assumptions for each scenario. Chair Ellen
125 Beckmann and Matt Day discussed the financial model of the Durham and Orange Transit Plans, and
126 revenue forecasts for Wake County. Matt Day reviewed the funding assumptions for projects for each
127 decade of the MTP in the aspirational scenario, and noted that funding was calculated in 2016 dollars.
128 John Hodges-Copple and Matt Day discussed funding for projects in the second decade of the MTP in
129 the aspirational scenario. John Hodges-Copple pointed out that even in the aspirational scenario there is
130 a fairly constrained set of projects through the second decade. Chair Ellen Beckmann pointed out that
131 although these projects are uncommitted, the model treats them as if they are committed. John
132 Hodges-Copple pointed out that if a project is in the STIP, it is assumed that it draws money and will end
133 up in the MTP. However, projects can be taken out of the MTP which would free up funds. Matt Day
134 discussed how the withdrawal of the I-40 managed lanes project will affect the next STIP. Aaron Cain
135 stated that the assumption is that the managed lanes project will be programed for 2040 in the MTP,
136 but that the MPO did not want to program the project for 2026.

137 Andy Henry explained how Matt Day's projected revenues at the statewide, regional, and
138 Division levels were used to make adjustments to STIP projects. Andy Henry drew attention to a
139 comparison between the statewide projects in the 2040 MTP and the draft 2045 MTP (if it were adopted

at the time of the TC meeting). Andy Henry stated that he used the STIP estimate for the managed lane project, but cost could be reduced by \$215 million if the managed lane feasibility study estimate is used. Andy Henry confirmed that these numbers were based on the aspirational scenarios in response to an inquiry from Chair Ellen Beckmann.

Andy Henry discussed the budget for the light rail project, Intelligent Transportation Systems (ITS), and Transportation Demand Management (TDM). Andy Henry stated that additional revenues from roadways that developers will likely build and local government bond funding for bicycle and pedestrian projects have not yet been factored into the MTP. Chair Ellen Beckmann and Andy Henry discussed how STBGDA funds have been factored into the Division budget. John Hodges-Copple and Andy Henry discussed funding assumptions for projects in the third decade of the MTP. Andy Henry discussed the next steps in the MTP development process.

Geoff Green made a motion to recommend that the MPO Board hold a public hearing on the Alternatives Analysis at their September meeting. Scott Whiteman seconded the motion. The motion passed unanimously.

8. Review of NCDOT Bicycle and Pedestrian Policy

Aaron Cain, LPA Staff

In late June 2017, DCHC MPO staff learned that the NCDOT Board of Transportation (BOT) is considering changes to the NCDOT Sidewalk and Pedestrian Policy. Aaron Cain stated that Dale McKeel would be asking members of the TC to form a subcommittee to review the existing Sidewalk and Pedestrian Policy and provide comments and suggestions for changes. These comments will be reviewed at the September TC meeting and provided to the MPO Board for consideration.

Chair Ellen Beckmann stated that while the BOT has deferred action on updating NCDOT's Bicycle and Pedestrian policy, the MPO wants to be proactive in developing recommendations. Chair Ellen Beckmann shared where the Bicycle and Pedestrian Policies can be found on NCDOT's website and the dates when the policies were last updated. Chair Ellen Beckmann stated that it would potentially

help the MPO if bicycle and pedestrian facilities could be routinely included with NCDOT's highway projects.

Bergen Watterson confirmed that NCDOT has not yet made new recommendations, and that the subcommittee would be providing recommendations on existing policies. Chair Ellen Beckmann used the Roxboro/Latta/Infinity project to show how current NCDOT policies sometimes create a disincentive for implementing the safest facilities for bicycles. Richard Hancock concurred with Chair Ellen Beckmann, and noted that there was a new Deputy Secretary for Multi-Modal Transportation at NCDOT, Julie White. Chair Ellen Beckmann stated that Julie White has already been invited to a MPO Board meeting.

Chair Ellen Beckmann stated that a subcommittee would convene to develop recommendations in time for the September TC meeting.

This item was informational and no further action was required by the TC.

REPORTS:

9. Reports from the LPA Staff

Aaron Cain, LPA Staff

There was no report from the LPA Staff.

10. Report from the DCHC MPO TC Chair

Ellen Beckmann, DCHC MPO TC Chair

Chair Ellen Beckmann stated that Julie White is now Deputy Secretary of Multi-Modal Transportation at NCDOT. Chair Ellen Beckmann stated that she hoped that Julie White would be attuned to the concerns of urban areas given her work on the North Carolina Metropolitan Mayor's Coalition.

Chair Ellen Beckmann stated that there would be a drop-in Duke Belt Line Vision Workshop on September 6 at the Durham Armory from 4 p.m. to 7 p.m.

11. NCDOT Reports

Richard Hancock, NCDOT Division 5, stated that work is continuing on the Alston Avenue project, and that there was a public hearing about closings related to the East End Connector project. Richard Hancock added that the closings related to the East End Connector would occur in October 2017 and that the exact date of the closing would be determined in coming weeks. Richard Hancock also provided an update on plans to patch, repair, and resurface Rowena Avenue. Richard Hancock provided an update on the Old Chapel Hill Road bicycle and pedestrian project, and noted that Chapel Hill Councilman Ed Harrison has expressed concern about the closure of Pope Road. Richard Hancock clarified that only the Pope connection would be closed, and that Chapel Hill Road would remain open. Richard Hancock also discussed some utility issues related to the project. Chair Ellen Beckmann and Richard Hancock discussed whether the Division has been in touch with Githens Middle School. Richard Hancock provided an update on the Barbee/Herndon roundabout project and noted that the contractor has been very late mobilizing there. He also discussed concerns about how closures related to the project would affect a nearby school now that the school year has commenced.

Ed Lewis, NCDOT Division 7, discussed the month-long public engagement process surrounding the upcoming STIP and the role that Metroquest Public Engagement software will play in the process. Bergen Watterson and Ed Lewis discussed some of the alternatives that have been proposed for the Merritt Mill/Franklin/Main Street project. Bergen Watterson requested that Ed Lewis present staff with the alternatives for the project before the upcoming meeting.

Bryan Kluchar, NCDOT Division 8, stated that planning and design has started on the intersection realignment at NC 751 and O'Kelly Chapel Road, and that there is a 2019 let date for the project. Bryan Kluchar confirmed that the project would not affect Durham County in response to a question from Chair Ellen Beckmann.

Julie Bogle, NCDOT Transportation Planning Branch (TPB), stated that the DCHC MPO Comprehensive Transportation Plan (CTP) has been adopted by the NCDOT BOT. She promised to send out

an email with the CTP maps and a link to the website to find them. She added that the CTP report was still being finalized and would be finished by September 2017. Julie Bogle stated maps and reports for Chatham County CTP, which was adopted in January 2017, are still being finalized. Julie Bogle also provided updates on statewide planning initiatives, primarily the Statewide Freight Plan and the Strategic Transportation Corridors Plan. She added that TPB is also developing traffic forecasting shapefiles that will be visible through ArcGIS online and that a beta version should be up and running in coming months. Chair Ellen Beckman and Julie Bogle discussed the source of the model for the new traffic forecasts. Chair Ellen Beckmann and Julie Bogle also discussed whether the CTP has been updated on the DCHC MPO website.

John Hodges-Copple inquired whether the Chatham County residents at the meeting wished to speed. Katherine Butler, a Chatham County resident, stated that she was at the meeting for informational purposes only.

INFORMATIONAL ITEMS:

12. Recent News, Articles, and Updates

There were no informational items.

ADJOURNMENT:

There being no further business before the DCHC MPO Technical Committee, the meeting was adjourned at 10:19 a.m.

Table of Contents

1. Executive Summary.....	3
2. What is the Plan?	6
2.1 Why Do We Need A Plan?	6
2.2 What Is In The Plan	7
2.3 How Will The Plans Be Used?	10
3. About Our Home	11
3.1 Our Region	11
3.2 Our People	12
3.3 Our Economy	13
3.4 Our Environment	14
3.5 Our Future	16
3.6 Our Challenge	16
4. Our Vision And How We Will Achieve It	19
4.1 Our Vision.	19
4.2 Goals and Objectives.	19
4.3 Performance Targets and Measures of Effectiveness.	23
5. How We Developed Our Plan.....	25
5.1 Who is Responsible for the Plan?	25
5.2 Stakeholder & Public Involvement Process	26
5.3 Triangle Region Transportation Model.....	31
5.4 Related Plans and Studies.....	32
6. Analyzing Our Choices.....	36
6.1 Land Use Plans and Policies.....	36
6.2 Socio-economic Forecasts	37
6.3 Trends, Deficiencies, and Needs.....	40
6.4 Alternatives Analysis.....	43
6.5 Performance Evaluation Measures	45
7. Our Metropolitan Transportation Plan	49
7.1 Land Use & Development.....	49
7.2 Roadways.....	50
7.3 Transit Services	51
7.4 Bicycle and Pedestrian Facilities	54
7.5 Freight Movement.....	58
7.6 Transportation Demand Management (TDM).....	59
7.7 Intelligent Transportation Systems (ITS)	60
7.8 Transportation System Management (TSM)	60
7.9 Rail Investments	61
7.10 Air Transportation	63
7.11 Recommended Special Plans, Projects and Studies	63
7.12 Alternative Plan in Case of Plan Lapse.....	65
8. Our Financial Plan	67
8.1 Costs	67
8.2 Revenues	68
8.3 Balancing Costs and Revenues	71
9. Critical Factors in the Planning Process	74
9.1 Transportation - Air Quality Conformity.....	76
9.2 Environmental Justice.....	76
9.3 Safety and Security	86
9.4 Critical Environmental Resources	88
10. Post-2040 Comprehensive Transportation Plan Projects	90

Appendices

- Appendix 1: Road Projects List
- Appendix 2: Rail Technology and Service Briefs
- Appendix 3: Transit Service List
- Appendix 4: Bicycle and Pedestrian Facilities Lists
- Appendix 5: Road Cross-Sections and Access Management and Safety Design Elements
- Appendix 6: Air Quality Conformity Report [To be included in Final Report]
- Appendix 7: Public Comments [To be included in Final Report]
- Appendix 8: Acronyms
- Appendix 9: Greenhouse Gas Emissions (Durham County)
- Appendix 10: Detailed Transportation and Growth Maps
- Appendix 11: Year-of-Expenditure Financial Plan
- Appendix 12: Environmental Justice Maps and Critical Environmental Resource Maps

A Note to Readers:

The heart of any transportation plan is the investments that will be made to serve the travel needs of our growing region's citizens, businesses and visitors. These investments take the form of road, transit and other transportation facilities and services. Maps are created to help visualize the nature of both the facilities in which we plan to invest and the existing and future population and jobs that the facilities are designed to serve. But the maps in this document are for illustrative purposes only and are subject to change and interpretation. The details of the investments are in the project lists that are included with this report.

This version of the plan is a final review draft. It is designed to include the key content of the plan, and to show the type and format of information that will be in the final adopted document. Some parts of the document, such as some of the appendices, will not be created until the final version. In addition, some of the graphics in this version of the document are early drafts or lower-resolution images that will be upgraded in the final version.

Comments may be submitted to either of the MPOs through their websites:

NC Capital Area MPO: www.campo-nc.us/

attention: Chris Lukasina

Durham-Chapel Hill-Carrboro MPO: www.dchcmpo.org/

attention: Andy Henry

Because this document addresses the official plans of both MPOs, the document is color-coded. Text and tables with a white background apply to both MPOs.

Text and tables highlighted in this green color apply only to the Durham-Chapel Hill-Carrboro MPO.

Text and tables highlighted in this yellow color apply only to the Capital Area MPO

2045 MTP – Draft Preferred Option

Table of Contents

<u>Section</u>	<u>Page</u>
1. Land Use (Socioeconomic Data)	
a. Background	2
b. Guide Totals	2
c. Scenarios	3
d. Land Use Maps	4
2. Highways	
a. Background	12
b. Highway Map	13
c. Highway Project Table	14
3. Transit	
a. Summary	18
b. Durham County Services	18
c. Orange County Services	19
d. Chatham County Services	20
4. Bicycle and Pedestrian	
a. Local Plans	21
b. MPO Policy	22
5. Financial Plan	
a. Background	23
b. Financial Plan Table	25

Contact: Andy Henry
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 (919) 560-4366, ext. 36419

www.dchcmpo.org
www.bit.ly/DCHC-MTP

Land Use (Socioeconomic Data)

Background

The MPO forecasts socioeconomic data (SE Data), such as dwelling units, population and employment, to the year 2045 and uses that data as a key input into the travel demand model called the Triangle Regional Model, or TRM). The process starts with the 2045 guide totals, which are county- level population and employment projections for the year 2045, and proceeds to the Community Visualization (CommViz) model that distributes the dwelling units and employment to particular parcels based on land availability and suitability.

The following MPO Web page provides detailed information on the methodologies used for the guide totals and CommViz modeling process, as well as maps showing the projected population and employment distribution: <http://bit.ly/DCHC-MTP-LandUse>

Guide Totals

The MPO establishes the 2045 county-level population and employment to calculate the growth that the CommViz model process will distribute. The population is based on estimates and projections from the N.C. Office of State Budget and Management, and the employment projection is based on a private service from Woods-and-Poole Economics. The employment current employment estimate is based on employer data from InfoUSA that is verified and updated by local planners. The following table provides the guide totals:

Population				
County	2013	2045	2013-45	% change
Chatham*	41,543	72,110	30,567	74%
Durham	286,210	475,091	188,881	66%
Orange	139,289	194,867	55,578	40%
<i>Total</i>	<i>467,042</i>	<i>742,068</i>	<i>275,026</i>	<i>59%</i>
Employment				
County	2013	2045	2013-45	% change
Chatham*	9,339	17,718	8,379	90%
Durham	192,877	342,910	150,033	78%
Orange	64,212	107,791	43,579	68%
<i>Total</i>	<i>266,428</i>	<i>468,419</i>	<i>201,991</i>	<i>76%</i>

* Only includes portion of Chatham County in the modeling area.

Scenarios

The 2045 MTP uses the Connect 2045 Triangle area land use modeling process, which is based on a model called Community Visualization (or CommViz). The Connect 2045 team created two land use scenarios with the direct assistance of local land use planners throughout the Triangle area. In these scenarios, the CommViz model distributes the county-level guide totals of population and employment growth to a particular place.

- Community Plan – This scenario is based on the local comprehensive plans and land use policies, and can be understood as the most likely scenario.
- AIM-High – This scenario uses the Community Plan scenarios as a base but increases the land use density and mix around the future light rail. It is based on draft data from an ongoing regional study on rail station development potential, and though it pushes the limits it is still market possible.

Preferred Option Uses AIM-High

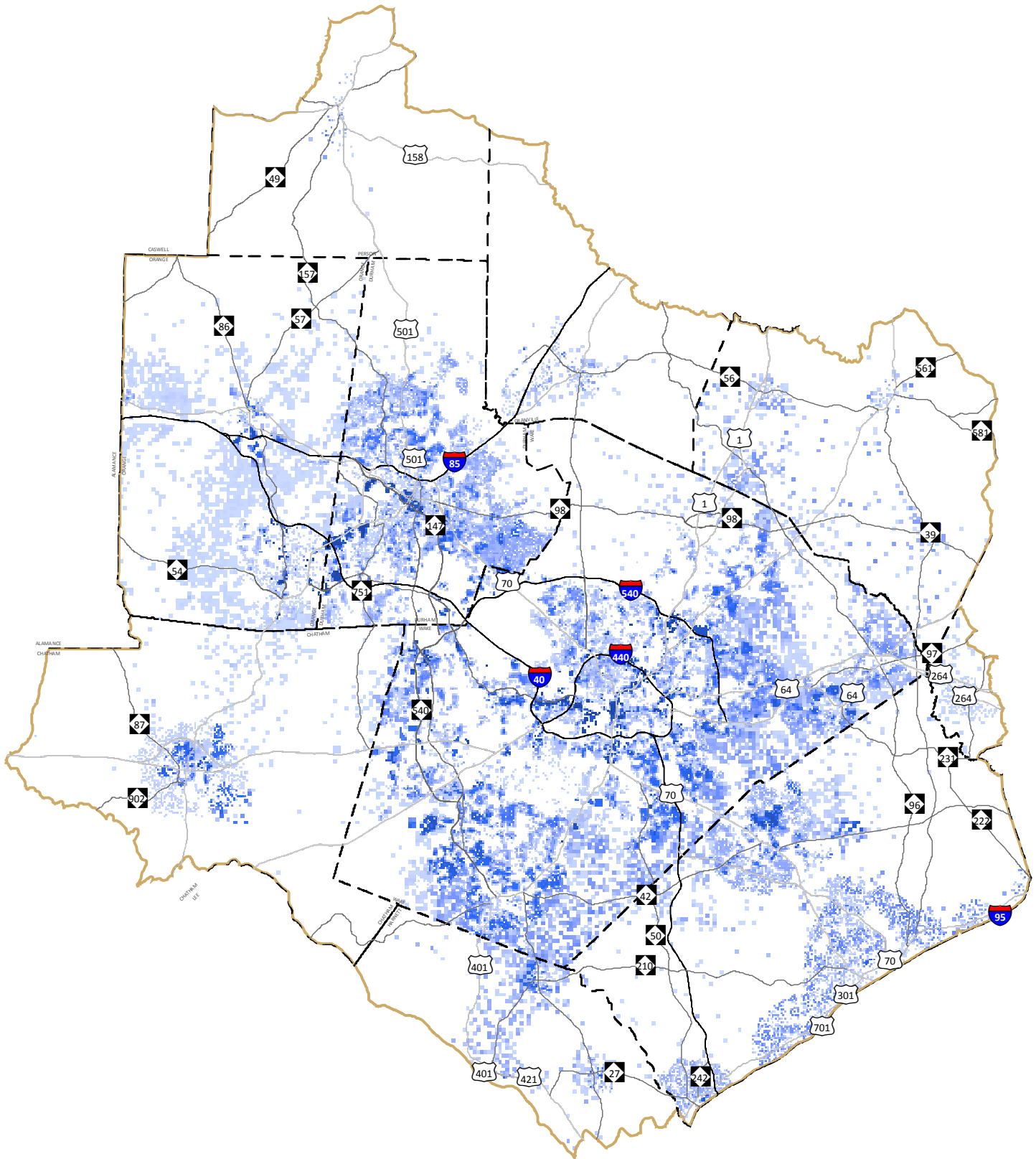
The MPO staff proposes using the AIM-High scenario for the Preferred Option. AIM-High is within the market possibilities of rail station development and it proved to have desired, positive impacts on the performance measures such as reduced overall congestion and delay.

Maps



The maps on the following pages show the distribution of the growth of households and employment from 2013 through 2045 in the Triangle Region and the three counties in the MPO. The set of household maps are presented first, followed by the employment maps.


Connect 2045 - Triangle Region Scenario Planning

AIM High Scenario



Regional Composite Map - New Household Distribution - 32-Year Forecast (2013-2045)

-  Study Area Boundary (TRM V.6)
-  County Boundary

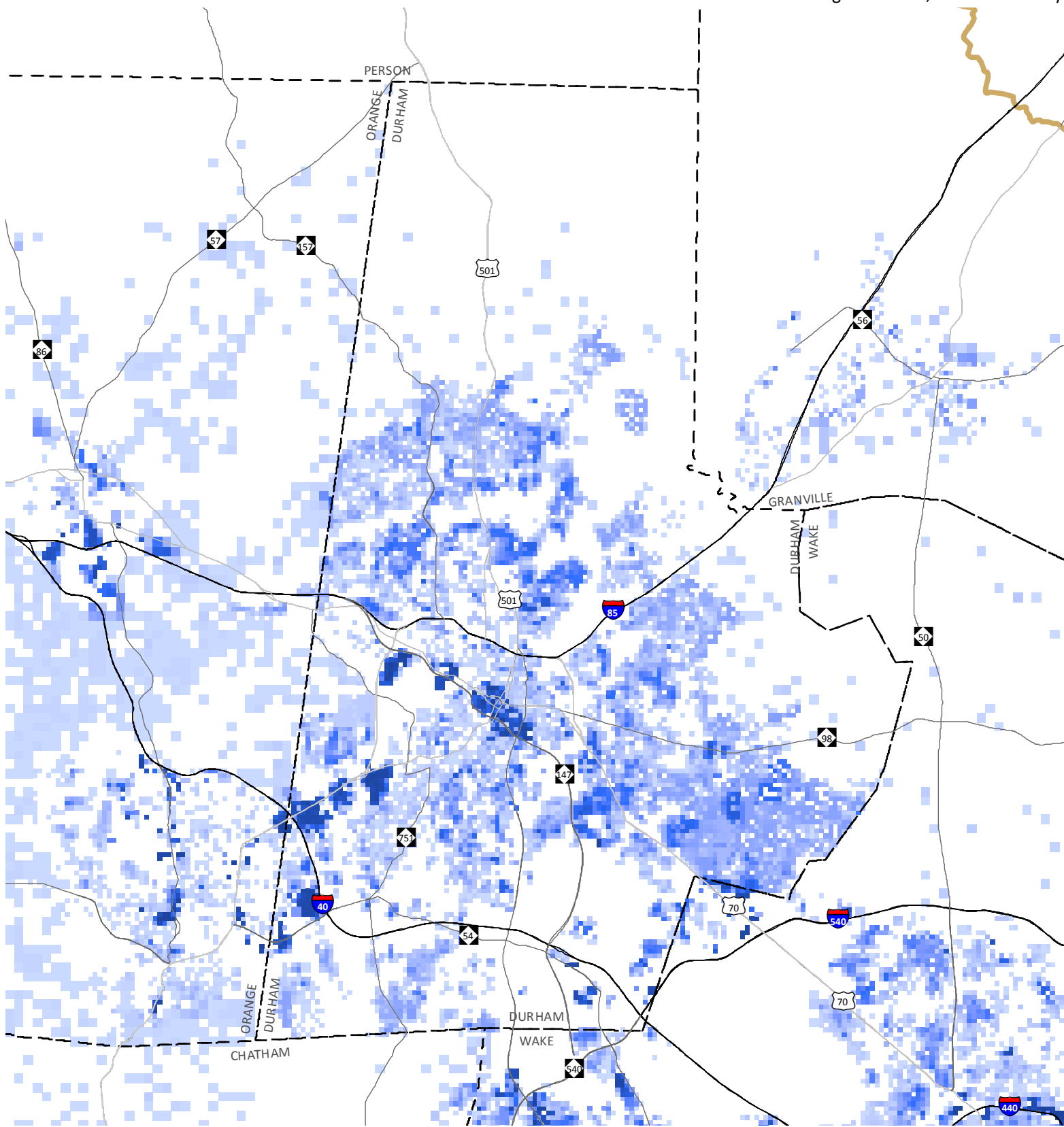
-  Interstate
-  US Hwy
-  State Hwy



See table named "Connect 2045 - AIM High Output by Jurisdiction" for a summary of household and employment data allocated to individual cities, towns, and counties in the Triangle Region CommunityViz Model.

Connect 2045 - Triangle Region Scenario Planning

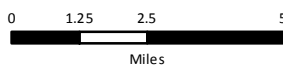
AIM High Scenario, Durham County



Regional Composite Map - New Household Distribution - 32-Year Forecast (2013-2045)

- Study Area Boundary (TRM V.6)
- County Boundary

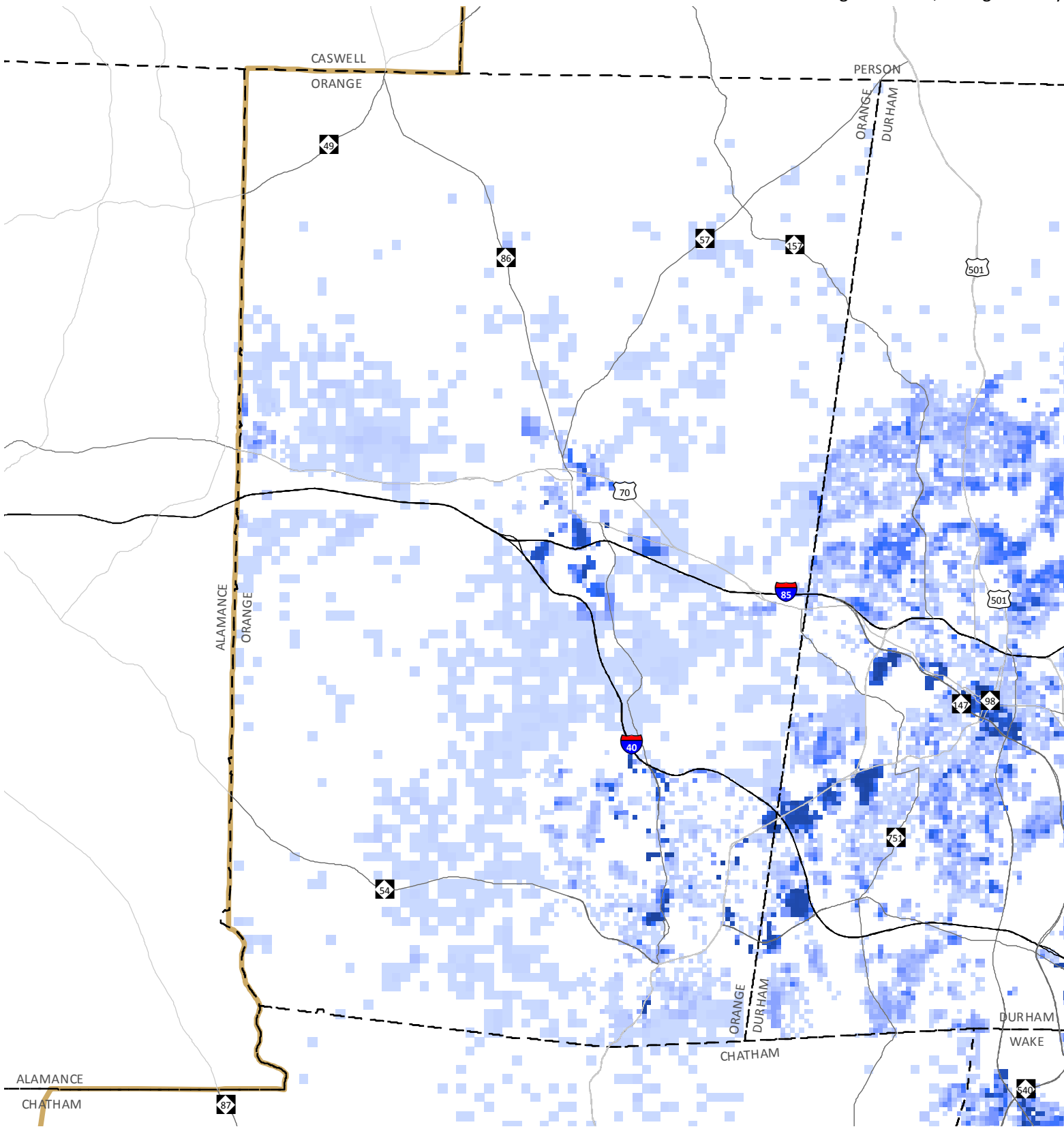
- Interstate
- US Hwy
- State Hwy



See table named "Connect 2045 - AIM High Output by Jurisdiction" for a summary of household and employment data allocated to individual cities, towns, and counties in the Triangle Region CommunityViz Model.

Connect 2045 - Triangle Region Scenario Planning

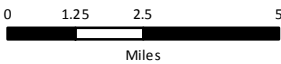
AIM High Scenario, Orange County



Regional Composite Map - New Household Distribution - 32-Year Forecast (2013-2045)

- Study Area Boundary (TRM V.6)
- County Boundary

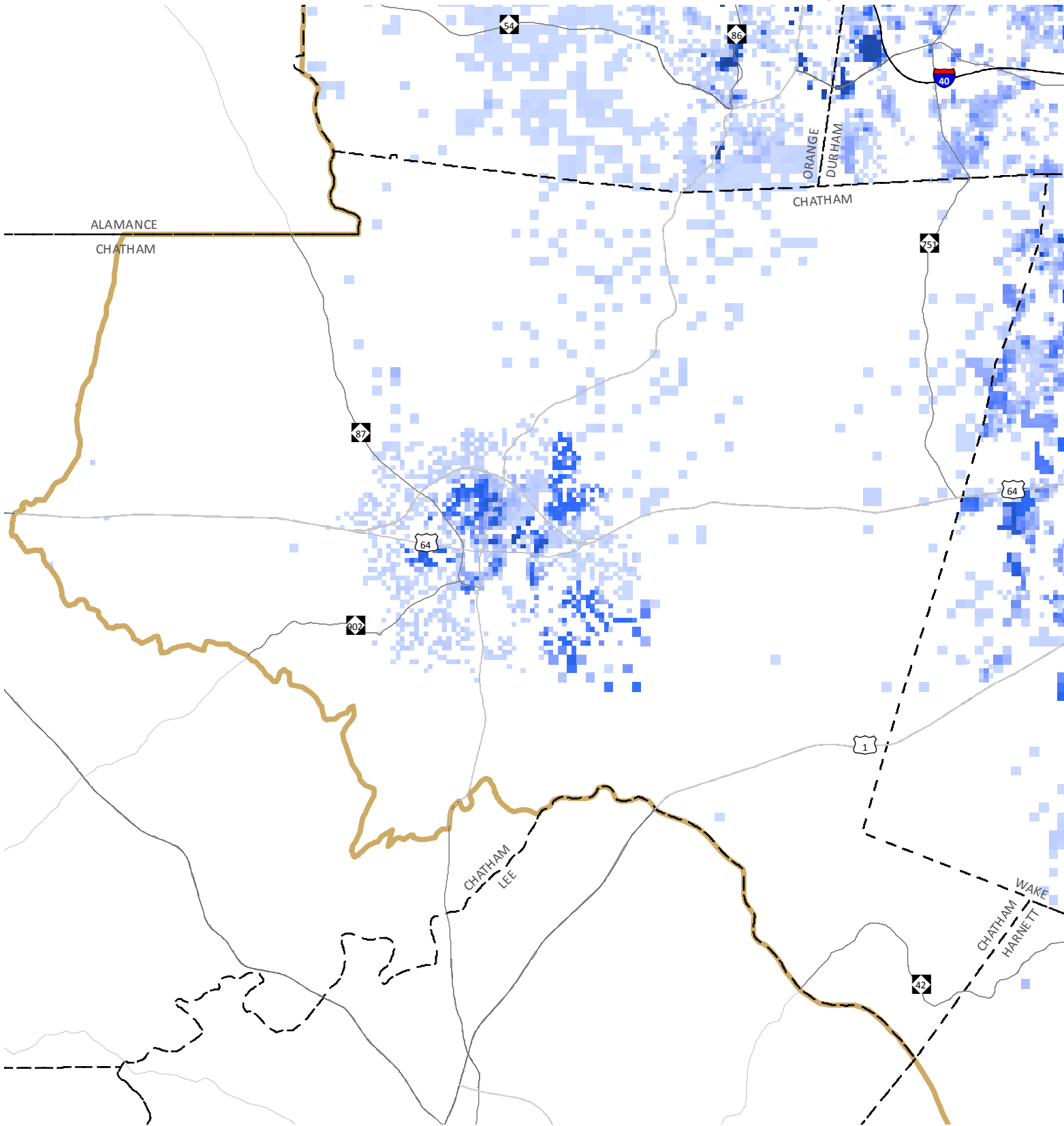
- Interstate
- US Hwy
- State Hwy



See table named "Connect 2045 - AIM High Output by Jurisdiction" for a summary of household and employment data allocated to individual cities, towns, and counties in the Triangle Region CommunityViz Model.

Connect 2045 - Triangle Region Scenario Planning

AIM High Scenario, Chatham County



Regional Composite Map - New Household Distribution - 32-Year Forecast (2013-2045)

Study Area Boundary (TRM V.6)

County Boundary

Interstate

US Hwy

State Hwy

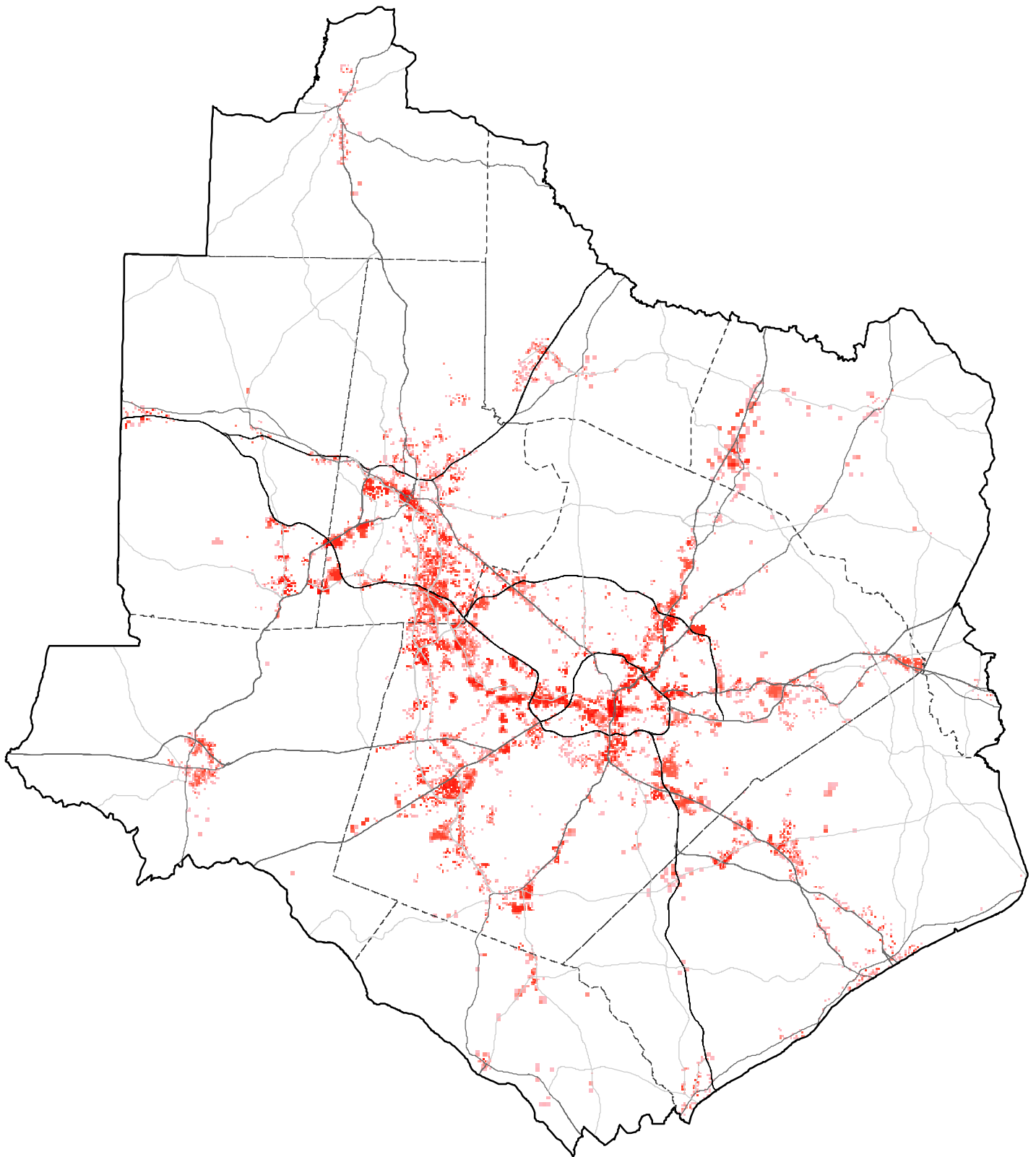
Households

0 1.25 2.5 5 > 200





Triangle J Council of Governments
Geographic Information Systems
7.26.17

Miles

See table named "Connect 2045 - AIM High Output by Jurisdiction" for a summary of household and employment data allocated to individual cities, towns, and counties in the Triangle Region CommunityViz Model.



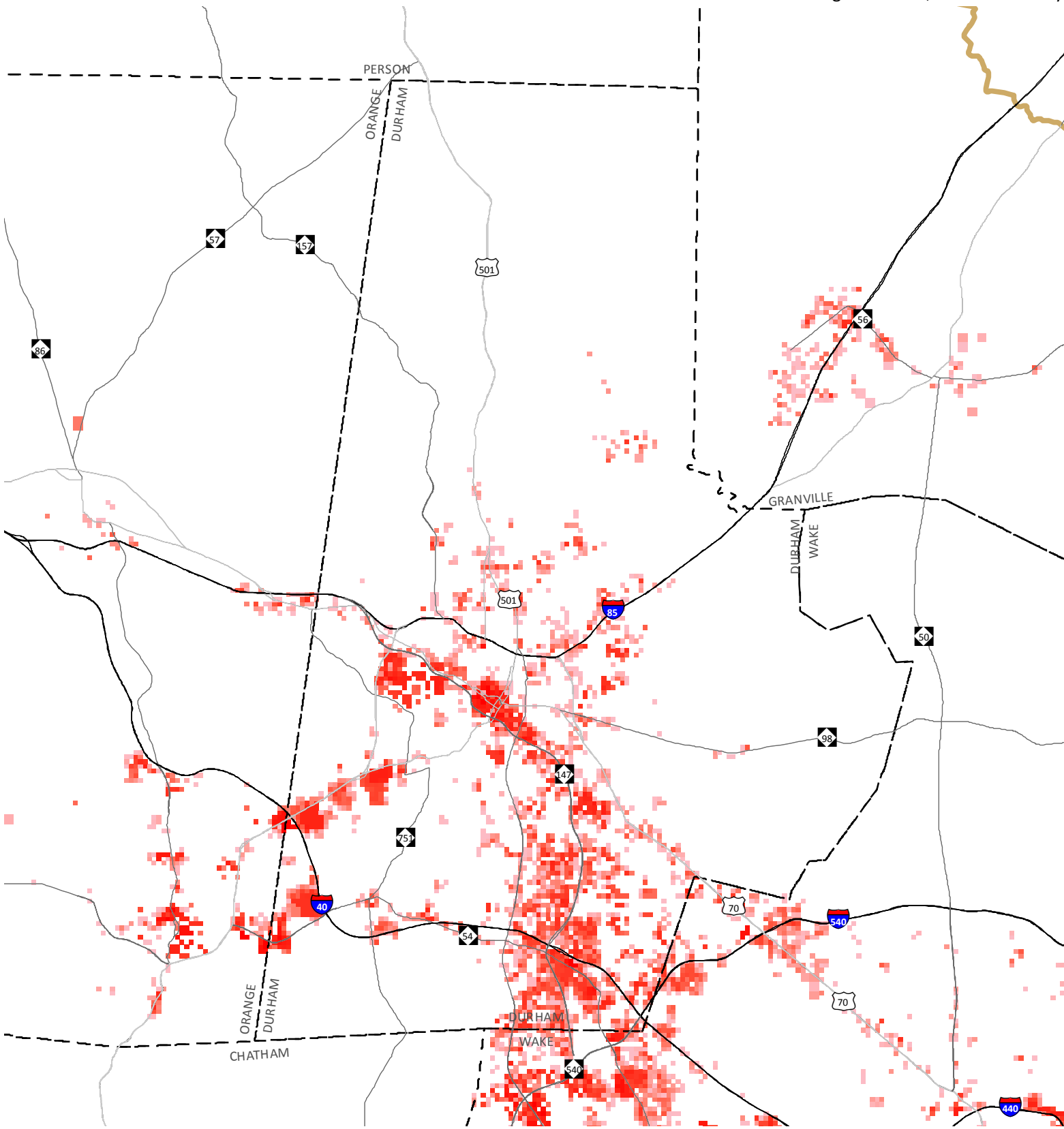
Regional Composite Map - New Employment Distribution - 32-Year Forecast (2013-2045)

 County Boundaries
  Interstates/ Freeways
 US Highways
 NC Highways


0 Employees > 1000


Connect 2045 - Triangle Region Scenario Planning

AIM High Scenario, Durham County



Regional Composite Map - New Employment Distribution - 32-Year Forecast (2013-2045)

 Study Area Boundary (TRM V.6)

 County Boundary

Interstate

US Hwy

State Hwy


0

1.25

2.5


5

Miles



0 Employees > 1,000

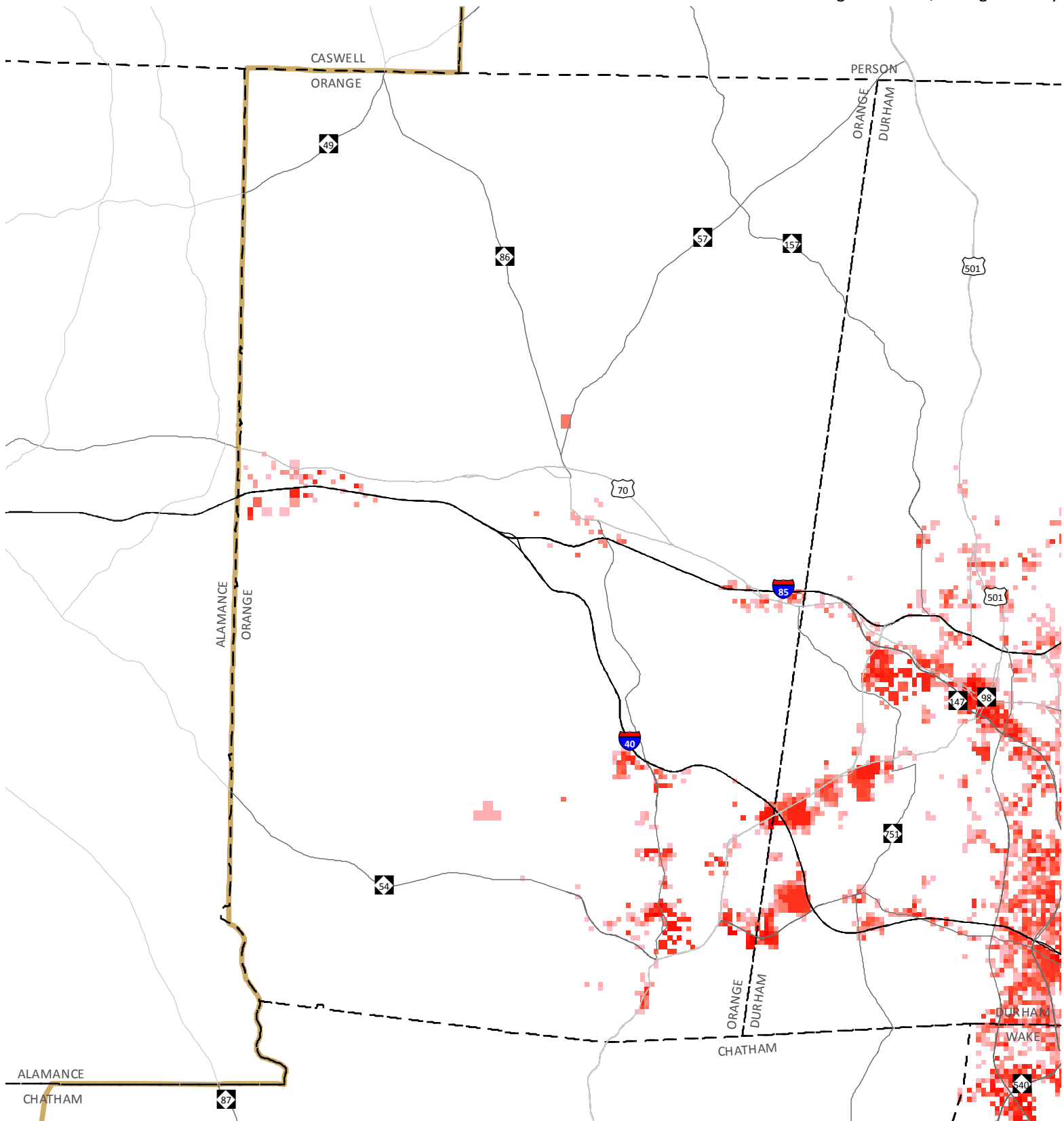
Triangle J Council of Governments
Geographic Information Systems
7.26.17



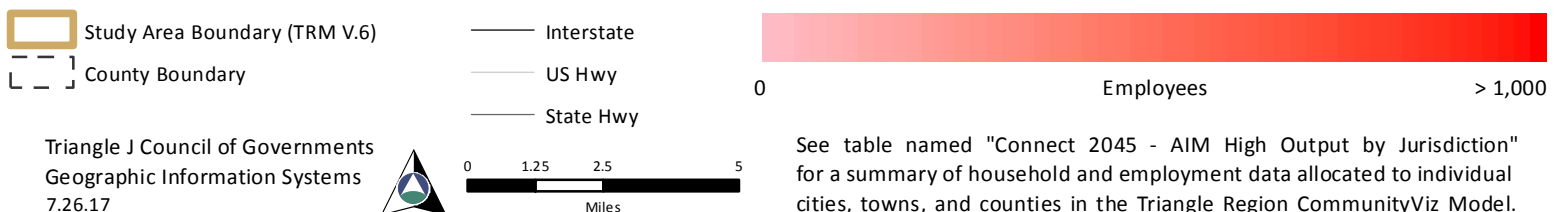
See table named "Connect 2045 - AIM High Output by Jurisdiction" for a summary of household and employment data allocated to individual cities, towns, and counties in the Triangle Region CommunityViz Model.

Connect 2045 - Triangle Region Scenario Planning

AIM High Scenario, Orange County

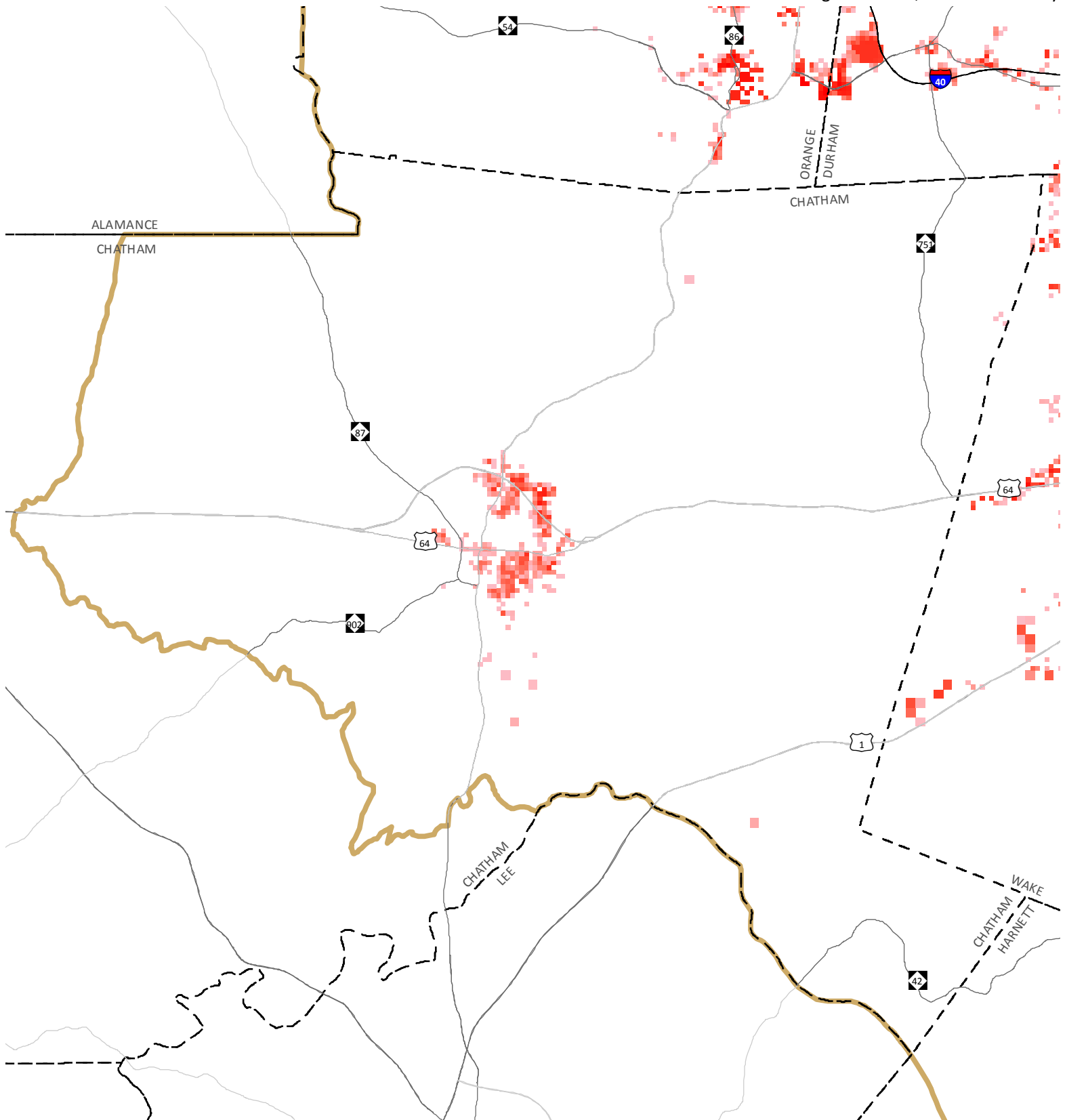


Regional Composite Map - New Employment Distribution - 32-Year Forecast (2013-2045)



Connect 2045 - Triangle Region Scenario Planning

AIM High Scenario, Chatham County

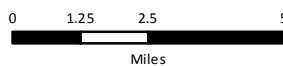


Regional Composite Map - New Employment Distribution - 32-Year Forecast (2013-2045)

Study Area Boundary (TRM V.6)
County Boundary

Interstate
US Hwy
State Hwy

0 Employees > 1,000



Highways

Background

The highway and interchange projects to be included in the Preferred Option are shown in the maps and tables below. Projects were selected based on their ability to promote the MPO's draft Goals and Objectives and the expected availability of funding.

The MTP designates and funds the highway projects by the decade in which the project will be completed for operation, i.e., current to 2025, 2026 to 2035 and 2036 to 2045. This designation helps demonstrate that the MTP is accountable to the federal fiscal constraint requirement. The North Carolina Strategic Transportation Investments (STI) funding tiers, i.e., St = statewide, Reg = regional or Div = division, are identified to abide by the current state funding process.

For the most part, new and upgraded interchanges are assumed to be part of the highway projects that are listed and therefore are not commonly listed separately. However, the fiscal year 2018-2027 Transportation Improvement Program (TIP) has listed eight new or upgraded interchanges as separate projects from the highway project. The 2045 MTP highway map and table show these as separate projects, as well.

Highway Map

The highway map on the next page shows the proposed highway improvements for the 2045 MTP. An interactive online map is also available at the Preferred tab on the 2045 MTP Web page: www.bit.ly/DCHC-MTP

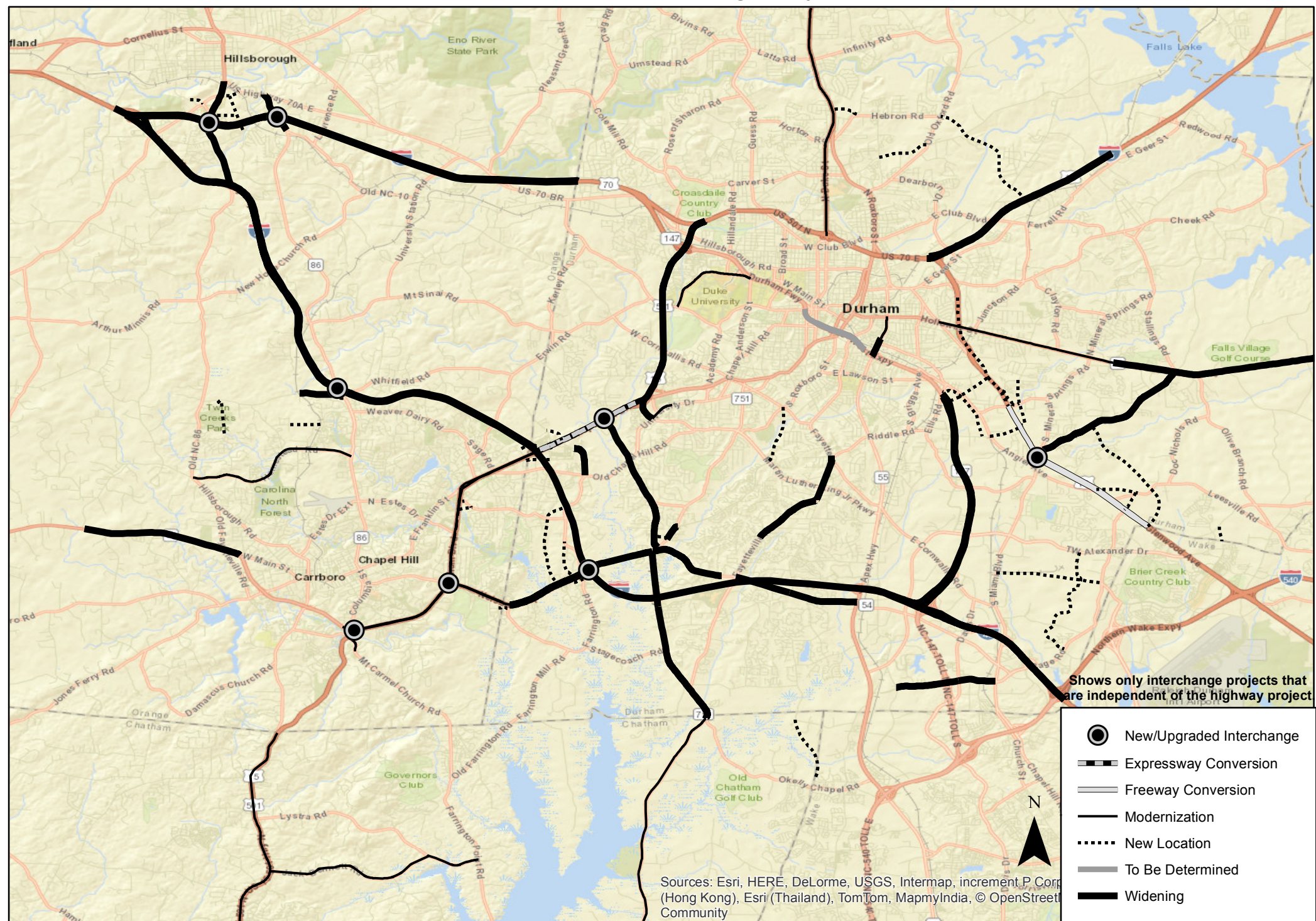
The DCHC MPO adopted a multimodal Comprehensive Transportation Plan (CTP) in May 2017, which contains a larger set of proposed projects because the CTP is not fiscally-constrained. See the interactive online map called Highways and Intersections at the following link to view the CTP highways that were considered for possible inclusion in the 2045 MTP: www.bit.ly/DCHCMPO-Adopted-CTP

Highway Table

The highway table breaks the projects into the three funding decades, i.e., 2025, 2035 and 2045, and then lists them alphabetically.

2045 Metropolitan Transportation Plan (MTP) Technical Committee 9/27/2017 Item 5

Preferred Option -- Highways



2045 Metropolitan Transportation Plan (MTP)

Preferred Option -- Highway Project List

Highway Project	From	To	Existing Lanes	Proposed Lanes	Improvement Type	Length (miles)	Estimated Cost (1)	STI	Funding Source
2025 MTP									
Brier Creek Pkwy Extension	T.W. Alexander Dr	Andrew's Chapel Rd	-	4	New Location	0.4	3,990,000	Div	Private
Carver St Ext	Armfield St	Old Oxford Rd	-	4	New Location	1.0	-	Div	State/Fed
East End Connector (EEC)	NC 147	US 70	-	4	New Location	3.6	35,175,000	St	State/Fed
Eubanks Rd	MLK Blvd (NC 86)	Millhouse Rd	2	4	Widening	0.8	7,487,000	Div	State/Fed
Fayetteville Rd	Barbee Rd	Cornwallis Rd	2	4	Widening	1.0	3,374,000	Div	State/Fed
Fayetteville Rd	Woodcroft Pkwy	Barbee Rd	2	4	Widening	1.3	4,661,000	Div	State/Fed
Fordham Blvd (US 15-501)	I-40	Franklin St	4	4	Modernization	1.6	2,052,000	St	State/Fed
Freeland Memorial Extension	S Churton St	New Collector Rd	-	2	New Location	0.5	3,203,000	Div	Private
I-40/NC 86	Interchange		-	-	Upgrade	N/A	16,500,000	St	State/Fed
I-40 (westbound auxiliary lane)	NC 147	NC 55	6	7	Widening	1.2	3,850,000	St	State/Fed
Legion Rd Ext	Legion Rd	Fordham Blvd	-	2	New Location	0.1	1,500,000	Div	Private
Lynn Rd/Pleasant Dr Connector	Lynn Rd	Pleasant Dr	-	2	New Location	0.6	3,651,000	Div	Private
NC 147 (Operational Improvements)	Briggs Ave	W Chapel Hill St	4	4	To Be Determined	1.7	58,400,000	St	State/Fed
NC 147 (possible Managed Lanes)	East End Conn	I-40	4	8	Widening	4.9	179,248,000	St	State/Fed
NC 54	Old Fayetteville Rd	MPO Boundary	2	3	Widening	2.9	14,457,000	Reg	State/Fed
NC 55 (Alston Ave)	NC 147	Main St	2	4	Widening	0.4	-	Reg	State/Fed
NC 55 (Alston Ave)	Main St	NC 98	2	2	Modernization	0.5	-	Reg	State/Fed
New Collector Rd	Orange Grove Rd Ext	Becketts Ridge Rd	-	2	New Location	0.8	7,232,000	Div	State/Fed/ Private
Orange Grove Connector	Orange Grove Rd	US 70	-	2	New Location	0.4	5,299,000	Div	State/Fed
Purefoy Rd Ext	Sandberg Ln	Weaver Dairy Rd	-	2	New Location	0.6	3,777,000	Div	Private
S Elliot Rd Ext	Fordham Blvd	Ephesus Church Rd	-	2	New Location	0.3	4,230,000	Div	State/Fed/ Private
US 70 (freeway conversion)	Pleasant Dr	S Miami Blvd	4	6	Freeway	1.6	111,020,000	St	State/Fed
Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	-	2	New Location	0.2	2,219,000	Div	State/Fed
US 15-501/Garrett Rd	Interchange		-	-	New Interchange	N/A	71,200,000	St	State/Fed
US 70/Miami Blvd	Interchange		-	-	New Interchange	N/A	46,621,000	St	State/Fed

STI roadway tier: St = statewide; Reg = regional; Div = division

2045 Metropolitan Transportation Plan (MTP)

Preferred Option -- Highway Project List

Highway Project	From	To	Existing Lanes	Proposed Lanes	Improvement Type	Length (miles)	Estimated Cost (1)	STI	Funding Source
2035 MTP									
Danziger Dr Extension	Mt Moriah Rd	E Lakewood Dr	-	2	New Location	0.4	5,127,000	Div	State/Fed
Erwin Rd	Cameron Blvd	W Main St	4	4	Modernization	1.8	12,025,000	Div	Private
Falconbridge Rd Connector	Falconbridge Rd	Farrington Rd	-	2	New Location	0.2	1,227,000	Div	State/Fed
Falconbridge Rd Extension	Farrington Rd	NC 54	-	4	New Location	0.9	16,685,000	Div	State/Fed/ Private
Farrington to I-40 eastbound slip ramp	Farrington Rd	I-40	-	1	New Location	0.1	1,600,000	Div	State/Fed
Fordham Blvd (US 15-501)	NC 54	Franklin Street	4	4	Modernization	2.1	45,498,000	St	State/Fed
Fordham Blvd (US 15-501)	NC 54	US 15-501	4	4	Modernization	2.2	49,832,000	St	State/Fed
Fordham Blvd/Raleigh Rd	Interchange		-	-	Upgrade	N/A	14,800,000	St	State/Fed
Fordham Blvd/S Columbia St	Interchange		-	-	Upgrade	N/A	35,000,000	St	State/Fed
Garrett Rd	NC 751	Old Durham Rd	2	4	Widening	2.1	16,064,000	Div	State/Fed
Homestead Rd	Old NC 86	Rogers Rd	2	2	Modernization	2.1	10,234,000	Div	State/Fed
Homestead Rd	Rogers Rd	NC 86	2	2	Modernization	1.3	6,855,000	Div	State/Fed
Hope Valley Rd (NC 751)	S Roxboro St	Woodcroft Parkway	2	4	Widening	0.3	2,716,000	Reg	State/Fed
Hopson Rd	Davis Dr	S Miami Blvd (NC 54)	2	4	Widening	0.7	5,200,000	Div	State/Fed
I-40	NC 86	I-85	4	6	Widening	7.8	58,784,000	St	State/Fed
I-40	US 15-501	NC 86	4	6	Widening	3.9	29,316,000	St	State/Fed
I-40 Managed Lanes	Wake County Line	NC 147	8	10	Widening	7.0	446,464,000	St	State/Fed
I-40/NC 54	Interchange		-	-	Upgrade	N/A	94,100,000	St	State/Fed
I-40/ NC 54 ramp	Farrington Rd.	I-40	-	1	New Location	0.2	1,600,000	St	State/Fed
I-85/NC 86	Interchange		-	-	Upgrade	N/A	16,488,000	St	State/Fed
I-85/S Churton St	Interchange		-	-	Upgrade	N/A	20,700,000	St	State/Fed
Jack Bennet Rd/Lystra Rd	US 15-501 South	Farrington Mill/Point Rd	2	2	Modernization	4.1	20,567,000	Div	State/Fed
Lake Hogan Farms Rd	Eubanks Rd	Legends Way	-	2	New Location	0.7	4,407,000	Div	State/Fed/ Private
Marriott Way	Friday Center Dr	Barbee Chapel Rd	-	2	New Location	0.2	682,000	Div	State/Fed
NC 54	Fordham Blvd (US 15-501)	Barbee Chapel Rd	6	6	Modernization	1.2	32,106,000	Reg	State/Fed
NC 54	I-40 Interchange	NC 751	2	4	Widening	1.2	32,000,000	Reg	State/Fed
NC 54	NC 751	Rollingwood Dr	2	4	Widening	1.5	21,600,000	Reg	State/Fed

STI roadway tier: St = statewide; Reg = regional; Div = division

2045 Metropolitan Transportation Plan (MTP)

Preferred Option -- Highway Project List

Highway Project	From	To	Existing Lanes	Proposed Lanes	Improvement Type	Length (miles)	Estimated Cost (1)	STI	Funding Source
NC 54	Fayetteville	Barbee	2	4	Widening	1.0	46,800,000	Reg	State/Fed
NC 54	Barbee	NC 55	2	4	Widening	1.3	46,400,000	Reg	State/Fed
NC 54 (widening; superstreet)	I-40	Barbee Chapel Rd	4	6	Widening	1.6	9,100,000	Reg	State/Fed
NC 55 (Alston Ave)	Main St	NC 98	2	4	Modernization	0.5	1,000	Reg	State/Fed
New Hope Commons Dr Extension	Eastowne Dr	New Hope Commons Dr	-	2	New Location	0.4	4,588,000	Div	State/Fed
Roxboro St	Cornwallis Rd	MLK Pkwy	-	4	New Location	1.2	12,063,000	Div	State/Fed
S Churton St	US 70 Business	I-40	2	4	Widening	2.4	31,825,000	Div	State/Fed
Southwest Durham Dr	NC 54	I-40	-	2	New Location	2.0	12,402,000	Div	State/Fed
University Dr	MLK Parkway	Shannon Rd	5	4	Modernization	0.5	768,000	Div	Private
US 70 (freeway conversion)	S Miami Blvd	Northern Durham Parkway	4	6	Freeway	2.5	173,469,000	St	State/Fed
2045 MTP									
Angier Av Ext	US 70	Leesville Rd	-	2	New Location	0.8	4,784,000	Div	State/Fed
Angier/Glover Connector	Ellis Rd	Glover Rd	-	2	New Location	1.4	8,625,000	Div	State/Fed
Crown Pkwy/Roche Dr	Page Rd	T.W. Alexander Dr	-	2	New Location	2.7	11,041,000	Div	State/Fed
Eno Mountain Rd realignment	Mayo St	Eno Mountain Rd	-	2	New Location	0.3	2,015,000	Div	State/Fed
Garrett Rd	Old Durham Rd	US 15-501	2	4	Widening	1.0	7,761,000	Div	State/Fed
Glover Rd	Angier	US 70	-	2	New Location	0.6	3,714,000	Div	State/Fed
									State/Fed/Private
Hebron Rd Extension	Hebron Rd	Roxboro Rd (501 N)	-	2	New Location	0.5	3,612,000	Div	State/Fed/Private
Holloway St (NC 98)	Miami Blvd	Nichols Farm Dr	4	4	Modernization	3.3	17,705,000	Reg	State/Fed
Hopson Rd	Louis Stephens Dr	Davis Dr	2	4	Widening	1.1	9,195,000	Div	State/Fed
I-40 Managed Lane	NC 54	US 15-501	6	8	Widening	2.9	85,621,000	St	State/Fed
I-40 Managed Lanes	NC 147	NC 54	6	10	Widening	6.4	250,290,000	St	State/Fed
I-85	US 70	I-40	4	6	Widening	7.1	197,378,000	St	State/Fed
I-85	US 70	Red Mill Rd	4	6	Widening	8.2	215,940,000	St	State/Fed
I-85	Sparger Rd	US 70	4	6	Widening	3.0	39,118,000	St	State/Fed
Leesville Rd Ext	US 70/Page Rd Ext	Leesville Rd	-	2	New Location	0.4	2,644,000	Div	State/Fed
Lynn Rd Extension	US 70	Existing Lynn Rd	-	2	New Location	1.1	6,862,000	Div	State/Fed
Mt Carmel Ch Rd	US 15-501	Bennett Rd	2	2	Modernization	0.4	1,997,000	Div	State/Fed
N Duke St (501 N)	I-85	N Roxboro split	5	4	Modernization	2.5	13,279,000	Reg	State/Fed

STI roadway tier: St = statewide; Reg = regional; Div = division

2045 Metropolitan Transportation Plan (MTP)

Preferred Option -- Highway Project List

Highway Project	From	To	Existing Lanes	Proposed Lanes	Improvement Type	Length (miles)	Estimated Cost (1)	STI	Funding Source
NC 751	Renaissance Pkwy	O'Kelly Chapel Rd	2	4	Widening	2.7	21,697,000	Reg	State/Fed/Private
NC 751	Martha's Chapel Rd	O'Kelly Ch. Rd	2	3	Modernization	5.4	9,648,000	Reg	State/Fed
NC 751	NC 54	Renaissance Pkwy	2	4	Widening	1.2	5,290,000	Reg	State/Fed
NC 86	Old NC 10	US 70 Business	2	4	Widening	0.9	7,259,000	Reg	State/Fed/Private
Northern Durham Pkwy	US 70 E	Sherron Rd	-	4	New Location	2.7	23,500,000	Div	State/Fed
Northern Durham Pkwy	I 85 North	Old Oxford Hwy	-	4	New Location	2.7	23,291,000	Div	State/Fed
Patriot Dr Extension	S Miami Blvd	Page Rd	-	2	New Location	1.9	13,086,000	Div	State/Fed
Roxboro Rd (501 N)	Duke St	Goodwin Rd	4	4	Modernization	2.7	14,574,000	Reg	State/Fed
Sherron Rd	S Mineral Springs Rd	Stallings Rd	2	4	Widening	3.1	25,003,000	Div	State/Fed
Southwest Durham Dr	US 15-501 Business	Mt Moriah Rd	-	4	New Location	0.4	3,667,000	Div	State/Fed/Private
SW Durham Dr	Sawyer Dr	Old Chapel Hill Rd	2	4	Widening	0.7	5,432,000	Div	State/Fed
US 15-501	Smith Level Rd	MPO Boundary	4	4	Modernization	4.9	25,673,000	St	State/Fed
US 15-501 (expressway conversion)	US 15-501 Bypass	I-40	6	6	Expressway	2.2	195,300,000	St	State/Fed
US 15-501 Bypass	MLK Parkway	I-85	4	6	Widening	4.8	80,734,000	St	State/Fed
Wake Forest Hwy (NC 98)	Nichols Farm Dr	Wake County Line	2	4	Widening	6.0	48,474,000	Reg	State/Fed
Yates Store Rd Extension	Yates Store Rd	Wake Rd	-	2	New Location	1.4	11,519,000	Div	State/Fed/Private
(1) All or portions of the East End Connector, Alston Ave and Carver St costs are not included in the financial plan because the funding is before 2018.									

Public Transportation

Summary

The 2045 MTP adopts the transit services as approved in the county plans:

- Durham County Transit Plan, originally approved in 2011 and updated April 28, 2017. The detailed plan is available at <http://ourtransitfuture.com/plans/durham/>
- Orange County Transit Plan, originally approved in 2012 and updated April 28, 2017. The detailed plan is available at <http://ourtransitfuture.com/plans/orange/>

The plans include major projects such as Durham-Orange Light Rail Transit (D-O LRT) and Wake-Durham Commuter Rail (CRT), but do not include specific programmed bus facility or service projects beyond 2023. The bus services operating in the DCHC MPO in 2045 reflect the MPO's best predictions of transit services operating at that time.

Durham County Services

The program of projects and services in the Durham County Transit Plan include the following:

■ Bus Services

Already Implemented Additional Bus Service (including new routes, increases in frequency, etc.)

- GoTriangle, 7,640 annual service hours
- GoDurham, 24,350 annual service hours

Planned Additional Bus Service

- GoTriangle, 6,260 annual service hours
- Durham County Access, 7,896 annual demand responsive trips

The Durham County Transit Plan also supports the increased cost of existing GoDurham service – e.g., the increased cost of providing service that GoDurham provided before the transit plan was implemented. About 9,000 existing annual service hours are assisted with Durham County Transit Plan funds.

An anticipated 15,000 – 27,500 additional bus service hours may be available following implementation of D-O LRT. These “rail dividend hours” reflect bus service currently operating in the D-O LRT corridor that could be redirected to meet other Durham County transit priorities.

■ Bus Capital Projects

The purchase of new vehicles (and subsequent replacement) to support the service funded by the Durham County Transit Plan.

Bus facility improvements to facilitate transit access and improve the customer experience, including new park-and-ride lots, stop improvements and other capital investments along transit emphasis corridors, new transit centers, and stop improvements.

- **Durham-Orange Light Rail Transit (D-O LRT)** – 2028 estimated completion date
Light rail transit service between UNC Hospitals in Chapel Hill and North Carolina Central University (NCCU) in Durham, providing 50,000 hours of transit service. Project includes bicycle, pedestrian and bus infrastructure improvements along the alignment.
- **Wake-Durham Commuter Rail** – 2035 estimated completion date
Commuter rail service linking Durham, RTP, Cary, Raleigh and Garner. The service will be funded in coordination with Wake County.

Orange County Services

The program of projects and services in the Orange County Transit Plan include the following:

■ Bus Services

Already Implemented Additional Bus Service (including new routes, increases in frequency, etc.)

- Orange Public Transit, 4,500 annual service hours
- GoTriangle, 6,708 annual service hours
- Chapel Hill Transit, 6,427 annual service hours

Planned Additional Bus Service

- Orange Public Transit, 2,387 annual service hours
- GoTriangle, 1,492 annual service hours
- Chapel Hill Transit, 6,392 annual service hours

The Orange County Transit Plan also supports the increased cost of existing Orange Public Transit and Chapel Hill Transit services – e.g., the increased cost of providing Orange Public Transit and Chapel Hill Transit service that was provided before the transit plan was implemented. About 9,000 existing annual service hours are assisted with Orange County Transit Plan funds.

An anticipated 30,000 – 45,000 additional bus service hours may be available following implementation of D-O LRT. These “rail dividend hours” reflect bus service currently operating in the D-O LRT corridor that could be redirected to meet other Orange County transit priorities.

■ **Bus Capital Projects**

The purchase of new vehicles (and subsequent replacement) to support the service funded by the Orange County Transit Plan.

Bus facility improvements to facilitate transit access and improve the customer experience, including new park-and-ride lots, improved transit amenities, and access improvements (e.g. new sidewalks) to bus stops.

■ **Hillsborough Train Station – 2020 completion date**

The station will be served by two Amtrak passenger routes.

■ **North-South Bus Rapid Transit (N-S BRT) – 2023 estimated completion date**

Bus rapid transit service using a mix of dedicated and mixed-traffic lanes between the Eubanks Road and Southern Village park-and-ride facilities, with direct service to UNC Hospitals.

■ **Durham-Orange Light Rail Transit (D-O LRT) – 2028 estimated completion date**

Light rail transit service between UNC Hospitals in Chapel Hill and North Carolina Central University (NCCU) in Durham, providing 50,000 hours of transit service. Project includes bicycle, pedestrian and bus infrastructure improvements along the alignment.

Chatham County Services

The express bus services from Pittsboro to UNC and the UNC Hospitals will be improved.

Bicycle, Pedestrian and Multiuse Paths

Summary

The 2045 MTP does not specifically list the bicycle and pedestrian projects. The local jurisdictions and counties have identified, and in many cases prioritized these projects and have coordinated their interaction in the jurisdiction boundary areas through the DCHC MPO. As a result, the 2045 MTP defers to those local governments. The financial plan provides \$225 million to implement these projects; that is \$75 million for each decade in the 2045 MTP.

Local Plans

Bicycle

The DCHC MPO adopted a Comprehensive Transportation Plan (CTP) in May 2017 in cooperation with the North Carolina Department of Transportation (NCDOT). The CTP lists all the local bicycle projects from the jurisdiction and county plans in the MPO area.

- CTP Web site: <http://bit.ly/DCHCMPO-Adopted-CTP>

The local plans provide details on the planned facilities at the following links:

- Carrboro Comprehensive Bicycle Transportation Plan (2009) -- <http://bit.ly/1PeRnsl>
- Chapel Hill Bike Plan (2014) -- <http://bit.ly/1uGbDZ5>
- Chatham County Bicycle Plan (2011) -- <http://bit.ly/1TSdlUv>
- Durham City and County Comprehensive Bicycle Plan (2006) -- <http://bit.ly/1UCSIDz>
- Hillsborough Community Connectivity Plan (2009) -- <http://bit.ly/1Uan3VO>

Pedestrian

Local pedestrian plans include:

- Chapel Hill Bicycle and Pedestrian Action Plan (2004) -- <http://bit.ly/28gbvqi>
- Durham Walks! Pedestrian Plan (2006) -- <http://bit.ly/1Y66mfG>
- Durham Bike+Walk Implementation Plan (2017) -- <http://bit.ly/2p2yHJS>
- Hillsborough Community Connectivity Plan (2009) -- <http://bit.ly/1Uan3VO>

MPO Policy

The MPO bicycle and pedestrian policy basically expects any roadway or other transportation project, whether it is a new or improved facility, to include appropriate pedestrian and bicycle accommodations. That policy provides extensive integration of bicycle and pedestrian needs into the design and construction of new and improved highway and other transportation projects. In addition, the “NCDOT Complete Streets Planning and Design Guidelines” and other

related guidelines provide planning and design guidance for use when building new projects or making changes to existing infrastructure.

Financial Plan

The financial table shows the Costs and Revenues by the funding decades, i.e., 2025, 2035 and 2045.

Cost Table

Roadways and Alternative Transportation

The roadway costs are broken out by the three North Carolina STI (Strategic Transportation Investment) funding tiers to abide by the current state policy. The highway costs mostly use TIP estimates, recent feasibility studies, or the 2016 NCDOT highway cost workbook to calculate the individual project cost.

Maintenance costs are based on the STI and NCDOT statewide plan.

The estimated alternative transportation costs are for the entire program because these items are not listed individually in the 2045 MTP. The assumed STI tier is also shown for bicycle and pedestrian facilities, TDM, ITS and TSM.

Transit

The transit costs and revenues are based on the Durham County Transit Plan and Orange County Transit Plan that were recently updated in 2017. The costs are broken out by existing and new/expanded services because of the policy of those plans and the funding restrictions of the revenue sources.

Additional Transit

These are transit funding matches that are not included in the transit costs. The regional costs are for the state capital match for the Durham-Orange Light Rail Transit project.

Revenue Table

STI/Local/Private

The STI revenues are based on the Optimistic financial scenario and abide by the STI requirements and methodology throughout the entire 2045 MTP, or the year 2045.

Maintenance revenues match the costs. Local funding are estimates based on the current 2040 MTP and a modest growth rate. CMAQ funding is based on the STI. Private funding is mostly summed from the 2045 MTP highway projects that are expected to be constructed by private concerns.

Transit

The transit costs and revenues are based on the Durham County Transit Plan and Orange County Transit Plan that were recently updated in 2017.

Balance Table

This table is a tool to help guide changes in the project lists and financial plan during the public input period of the Preferred Option. It shows the balance (i.e., revenue minus cost) by STI tier and decade. The values in parenthesis are negative, meaning that the costs are greater than the revenues.

2045 Metropolitan Transportation Plan

Draft Preferred Option -- Financial Plan

COSTS	Uses Optimistic Financial Projection			
	(in millions \$)			
Roadways & Alternative Transportation	2025	2035	2045	Total
Roadways (statewide)	480	1,048	1,090	2,618
Roadways (regional)	24	192	138	354
Roadways (division)	53	167	209	429
Maintenance (all)	874	1,242	1,409	3,525
Bicycle & Pedestrian (division)	75	75	75	225
Transportation Demand Management (division)	12	12	12	36
Intelligent Transportation Systems (statewide)	16	16	16	48
Transportation System Management (all)	40	40	40	120
Total Roadway and Alternate	1,573	2,793	2,990	7,355
Transit				
Continued Transit Funding to Support Existing Services	386	482	482	1,350
Funding for New/Expanded Transit Services	1,261	1,207	471	2,939
Additional Transit				
Transit funding match, etc. (regional)	95	96	-	191
Transit funding match, etc. (division)	-	-	-	-
Total Transit	1,742	1,785	953	4,480
Total Costs	3,314	4,578	3,943	11,835
REVENUES				
STI/Local/Private	2025	2035	2045	Total
STI (statewide)	542	898	981	2,421
STI (regional)	132	373	423	928
STI (division)	122	228	256	606
Maintenance (all)	874	1,242	1,409	3,525
Toll Revenue (statewide)	0.1	196	-	196
Local Funding (bicycle/pedestrian) (division)	35	20	20	75
Local Funding (roadway) (division)	25	25	25	75
Private Funds (division)	27	30	24	81
CMAQ Funding (division)	17	18	15	49
Total STI/Local/Private	1,773	3,029	3,153	7,956
Transit				

2045 Metropolitan Transportation Plan

Draft Preferred Option -- Financial Plan

Continued Transit Funding to Support Existing Services	386	482	482	1,350
Funding for New/Expanded Transit Services	<u>1,261</u>	<u>1,207</u>	<u>471</u>	<u>2,939</u>
Total Transit	1,647	1,689	953	4,289
Total Revenues	3,420	4,719	4,106	12,244
	(parenthesis are negative values)			
BALANCE	<u>2025</u>	<u>2035</u>	<u>2045</u>	<u>Total</u>
Statewide	36	19	(135)	(80)
Regional	(7)	65	265	323
Division	76	56	33	166
Total Balance	106	141	163	410

MEMORANDUM

To: DCHC MPO Board
 From: DCHC MPO Lead Planning Agency Staff
 Date: October 11, 2017
 Subject: FY 2018 Unified Planning Work Program – Amendment #1

The Lead Planning Agency (LPA) staff is requesting an amendment to the FY2018 Unified Planning Work Program (UPWP). The proposed amendment is necessary in order to reflect the following:

- De-obligation of all STBG-DA funds by Orange County (Funds to be flexed to Orange Public Transportation.)
- Addition of STBG-DA funds by Chapel Hill. (Funds had been de-obligated from FY17 UPWP.)
- Addition of STBG-DA funds by Lead Planning Agency (Funds had been de-obligated in prior UPWP to conduct additional traffic counts and associated work this fiscal year.

The UPWP provides yearly funding allocations to support the ongoing transportation planning activities of the DCHC MPO. The UPWP must identify MPO planning tasks to be undertaken with the use of federal transportation funds. Funds that would not be expended during the current fiscal year (FY18) must be de-obligated through an amendment in order for the funds to be available (carried over) for programming during a later fiscal year or to be flexed for Federal Transit Administration grants.

The proposed revisions are illustrated in amendment tables below.

Orange County – STBG-DA Proposed Amendment #1 (de-obligate all funds)*

Description	After Amend. #1 (total share–100%)	Change (total share–100%)	Original (total share–100%)
Street System Change	\$ 0	-\$ 761	\$ 761
Dwelling Unit Pop/Empl Change	\$ 0	-\$ 1,986	\$ 1,986
Mapping	\$ 0	-\$ 3,773	\$ 3,773
Bike and Ped Facilities Inventory	\$ 0	-\$ 1,533	\$ 1,533
Transit Element of MTP	\$ 0	-\$ 4,090	\$ 4,090
Congestion Management Strategies	\$ 0	-\$ 2,370	\$ 2,370
Short-range Transit Planning	\$ 0	-\$ 7,463	\$ 7,463
Planning Work Program	\$ 0	-\$ 2,685	\$ 2,685
Transportation Improvement Plan	\$ 0	-\$ 11,451	\$ 11,451
Environmental Justice	\$ 0	-\$ 993	\$ 993
Safety/Drug Control Planning	\$ 0	-\$ 821	\$ 821
Public Involvement	\$ 0	-\$ 2,904	\$ 2,904
Environmental Analysis/Pre-TIP Planning	\$ 0	-\$ 839	\$ 839
Management and Operations	\$ 0	-\$ 1,620	\$ 1,620
Total Revision	\$ 0	-\$ 43,289	\$ 43,289

Town of Chapel Hill – STBG-DA Proposed Amendment #1 (add funds that had been de-obligated in prior fiscal year)*

Description	After Amend. #1 (total share–100%)	Change (total share–100%)	Original (total share–100%)
Traffic Counts	\$ 1,449	\$ 1,449	\$ 0
Central Area Parking Inventory	\$ 1,463	\$ 1,463	\$ 0
Bike and Ped Facilities Inventory	\$ 6,213	\$ 6,213	\$ 0
Bike and Ped Counts	\$ 4,141	\$ 4,141	\$ 0
Forecast of Future Travel Patterns	\$ 6,213	\$ 6,213	\$ 0
Highway Element of MTP	\$ 4,141	\$ 4,141	\$ 0
Financial Planning	\$ 5,178	\$ 5,178	\$ 0
Congestion Management Strategies	\$ 8,284	\$ 8,284	\$ 0
Planning Work Program	\$ 6,098	\$ 6,098	\$ 0
TIP	\$ 16,568	\$ 16,568	\$ 0
Regional or Statewide Planning	\$ 10,355	\$ 10,355	\$ 0
Management and Operations	\$ 31,065	\$ 31,065	\$ 0
Total Revision	\$ 132,647	\$ 101,168	\$ 31,480

Lead Planning Agency – STBG-DA Proposed Amendment #1 (add funds that had been de-obligated in prior fiscal year)*

Description	After Amend. #1 (total share–100%)	Change (total share–100%)	Original (total share–100%)
Traffic Counts	\$140,000	\$ 100,000	\$ 40,000
Bike and Ped Counts	\$ 48,750	\$ 43,750	\$ 5,000
Congestion Management Strategies	\$ 119,200	\$ 62,500	\$ 56,700
Total Revision	\$ 1,346,299	\$ 206,250	\$1,140,049

*These tables only include tasks for which changes have been requested.

RESOLUTION

**TO APPROVE AMENDMENT #1 TO THE FY 2018 UNIFIED PLANNING WORK
PROGRAM OF THE DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN
PLANNING ORGANIZATION (DCHC MPO)**

October 11, 2017

A motion was made by Board Member _____ and seconded by Board Member _____ for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, A comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation planning projects are effectively allocated to the DCHC MPO; and

WHEREAS, The Durham-Chapel Hill-Carrboro MPO requests an amendment to the 2018 UPWP as outlined on the attached tables; and

WHEREAS, Members of the Board agree that the Unified Planning Work Program amendment effectively advances transportation planning for 2018

Now, therefore, be it resolved that the Board hereby endorses Amendment #1 of the Durham-Chapel Hill-Carrboro Urban Area Unified Planning Work Program for the FY 2018 as described in the attached sheets.

I, Steve Schewel, MPO Board Chair, do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Durham-Chapel Hill- Carrboro Urban Area MPO Board, duly held on the 11th day of October, 2017

Signature of Board Chair
Durham-Chapel Hill-Carrboro Metropolitan Planning Organization

Durham County, North Carolina

I certify that Stephen M. Schewel personally appeared before me this day to affix his signature to the forgoing document.

Date: October 11, 2017

Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2020

MPO-Wide STBG-DA Amendment #1 FY18 UPWP (Includes Chapel Hill, Orange County, and Lead Planning Agency Amendment)*

Task/Description	After Amend. #1 (total share–100%)	Change (total share–100%)	Original (total share–100%)
Traffic Counts	\$	\$ 101,449	\$40,780
Street System Change	\$	-\$ 761	\$ 6,188
Dwelling Unit Pop/Empl Changes	\$	-\$ 1,986	\$ 43,240
Mapping	\$	-\$ 3,773	\$ 104,019
Central Area Parking Inventory	\$	\$ 1,463	\$ 9,841
Bike and Ped Facilities Inventory	\$	\$ 4,680	\$ 4,155
Bike and Ped Counts	\$	\$ 47,891	\$ 5,975
Forecast of Future Travel Patterns	\$	\$ 6,213	\$ 0
Highway Element of MTP	\$	\$ 4,141	\$ 30,502
Transit Element of MTP	\$	-\$ 4,090	\$ 52,807
Financial Planning	\$	\$ 5,178	\$ 5,000
Congestion Management Strategies	\$	\$ 68,414	\$ 62,966
Short-range Transit Planning	\$	-\$ 7,463	\$ 9,143
Planning Work Program	\$	\$ 3,413	\$ 41,097
Transportation Improvement Plan	\$	\$ 5,117	\$ 68,650
Environmental Justice	\$	-\$ 993	\$ 10,415
Safety/Drug Control Planning	\$	-\$ 821	\$ 15,029
Public Involvement	\$	-\$ 2,904	\$ 53,598
Environmental Analysis/Pre-TIP Planning	\$	-\$ 839	\$ 42,638
Regional or Statewide Planning	\$	\$ 10,355	\$ 106,998
Management and Operations	\$	\$ 29,445	\$ 74,914
Total Revision	\$ 1,738,388	\$ 264,129	\$ 1,474,259

*These tables include only those tasks for which a change was requested.

**DCHC MPO FY19 Allocation of Surface Transportation Block Grant -Direct Attributable
(STBG-DA) and Transportation Alternative Program (TAP) Funds Per Distribution Policy
approved by MPO Board on October 14, 2015**

Jurisdiction/Agency	STBG-DA Allocation	TAP Allocation	Totals
LPA Routine Planning	\$800,000		
LPA Extra Planning	\$0		\$800,000
TJCOG Planning	\$55,000		\$55,000
Transit			
GoTriangle	\$182,688		
GoDurham	\$463,895		
Chapel Hill Transit	\$392,957		
Orange Public Transit	\$16,619		\$1,056,159
Local Discretionary (#)			
City of Durham	\$1,336,753		
Town of Chapel Hill	\$387,523		
Town of Carrboro	\$178,639		
Town of Hillsborough	\$103,770		
Durham County	\$44,836		
Orange County	\$43,300		
Chatham County	\$17,498		\$2,112,319
Regional Bicycle and Pedestrian Projects (*)	\$692,841	\$363,318	\$1,056,159
Total Allocation	\$4,716,318	\$363,318	\$5,079,636

Notes

Allocations represent federal funds only. Local match is required for projects.

(*) Call for Regional Bicycle and Pedestrian projects to be conducted in Spring, 2018, for the FY18 and FY19 allocation, and in Spring, 2019, for the FY20 allocation.

(#) Funds may be flexed to Section 5307 for transit agencies. Call for STBG-DA Local Discretionary projects to be conducted in Spring, 2019, for STBG-DA FY19 and FY20 allocation.

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION 2019 UNIFIED PLANNING WORK PROGRAM (UPWP) DEVELOPMENT SCHEDULE

The tentative development schedule for the 2019 UPWP is presented below. The work program will contain new initiatives for FY2019 and a continuation of select initiatives and emphasis areas. The schedule provides for the coordination of the UPWP development with the local government budget process and NCDOT deadlines.

DATES	DCHC MPO ACTIVITY DESCRIPTION
Oct - Dec 2017	Development of draft 2019 UPWP and coordination with the Oversight Committee & local agencies.
3-Nov-17	Deadline for funding request and supplemental documents to be submitted to MPO by member agencies.
20-Dec-17	TC reviews draft 2019 UPWP and recommends Board release draft for public comment.
10-Jan-18	MPO Board reviews draft of 2019 UPWP and releases draft for public comment.
24-Jan-18	TC receives draft 2019 UPWP and recommends Board hold public hearing and approve draft at February Board meeting.
31-Jan-18	Draft 2019 UPWP submitted to NCDOT/PTD
14-Feb-18	MPO Board holds public hearing and approves draft 2019 UPWP including approval of self certification process and local match.
2-Apr-18	Deadline for final FY2019 UPWP to be submitted to NCDOT and FHWA for approval. NCDOT/PTD will submit UPWP to FTA for approval.

**RESOLUTION TO SUPPORT THE TOWN OF CARRBORO'S NCDOT BICYCLE
PLANNING GRANT APPLICATION**

October 11, 2017

A motion was made by MPO Board Member _____ and seconded by MPO Board Member _____ for the adoption of the following resolution, and upon being put to a vote, was duly adopted.

WHEREAS, the North Carolina Department of Transportation has issued a call for projects for the 2018 Bicycle and Pedestrian Planning Grant Initiative; and

WHEREAS, the Town of Carrboro, a member of the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board, has a long history of developing bicycle facilities and includes in its policy document, *Carrboro Vision 2020*, goals relating to the implementation of the Town's bicycle plan, such as completing missing links in the bicycle network; and

WHEREAS, the Town of Carrboro is recognized by the League of American Bicyclists as a silver level Bicycle Friendly Community, and desires to achieve gold status; and

WHEREAS, an update of the 2009 Carrboro Comprehensive Transportation Bicycle Plan will help the Town in achieving this goal and qualifies as a project under the NCDOT grant initiative; and

WHEREAS, the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board is a policy board that coordinates and makes decisions on long and short-range transportation planning issues; and

WHEREAS, Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board seeks to improve transit, pedestrian, bicyclist, and highway safety in its area; and

NOW, THEREFORE, BE IT RESOLVED that the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board supports the Town of Carrboro's 2018 North Carolina Department of Transportation Bicycle and Pedestrian Grant Application to update the Town of Carrboro Comprehensive Bicycle Plan.

Stephen M. Schewel, MPO Board Chair

Durham County, North Carolina

I certify that Stephen M. Schewel personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: October 11, 2017

Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2020



Durham–Chapel Hill–Carrboro Metropolitan Planning Organization

Member Organizations: Town of Carrboro, Town of Chapel Hill, Chatham County, City of Durham, Durham County, Town of Hillsborough, NC Department of Transportation, Orange County, GoTriangle

October 11, 2017

Secretary of Transportation Jim Trogden
N.C. Department of Transportation
1501 Mail Service Center
Raleigh, NC 27699-1501

Dear Secretary Trogden:

It is our understanding that the N.C. Board of Transportation is considering changes to the NCDOT Bicycle Policy and Pedestrian Policy. The DCHC MPO Board supports this review and provides the following comments:

- The policies need to reflect current policies and processes, including the Complete Streets Policy, the Comprehensive Transportation Planning process, and the Strategic Transportation Investments process.
- The policies need to reflect current design guidelines, including the NCDOT Complete Streets Planning and Design Guidelines and relevant AASHTO, NACTO, and Federal Highway Administration guidelines.
- The NCDOT Bridge Policy also needs to be reviewed and updated as it addresses bicycle and pedestrian facilities on bridges.

In addition, the DCHC MPO Board requests that in the review of the policies several specific issues be addressed, including the following:

- Local government cost share for pedestrian facilities that are incidental to highway projects.
- Application of the policies to the construction of culverts.
- Local government cost share and maintenance responsibilities for shared use paths that are incidental to highway projects and within NCDOT right-of-way.

The DCHC MPO Board looks forward to participating in the review of these policies. Please contact us if you have questions or need more information.

Sincerely,

Steve Schewel, Chair
DCHC MPO Board

MEMORANDUM

To: DCHC MPO Board

From: DCHC MPO Lead Planning Agency

Date: September 13, 2017

Subject: **Lead Planning Agency (LPA) Synopsis of Staff Report**

This memorandum provides a summary status of tasks for major DCHC MPO projects in the Unified Planning Work Program (UPWP).

- Indicates that task is ongoing and not complete.
- ✓ Indicates that task is complete.

Major UPWP – Projects

Comprehensive Transportation Plan (CTP)

- ✓ Deficiency Analysis – December 2014-January 2015
- ✓ Release Draft CTP Deficiency Analysis for Public Comment – February 2015
- ✓ Submit draft CTP to NCDOT for internal review – June 2016
- ✓ Release CTP for Public Comment – December 2016
- ✓ Draft CTP to Local Jurisdictions - December 2016 to February 2017
- ✓ MPO Adopts CTP – May 2017
- ✓ NCDOT BOT Adopts CTP – August 2017
- Final CTP documentation and distribution – September 2017

2045 Metropolitan Transportation Plan (MTP)

- ✓ MTP Schedule/Timeline & development process Approval – January 2016
- ✓ MTP Public Involvement plan – January 2016
- ✓ MTP Goals, Objectives and Performance Measures – In progress
- ✓ Deficiency Analysis & Needs Assessment– May 2017
- ✓ Socioeconomic Forecasts – May 2017
- ✓ Land use Scenarios – May 2017
- ✓ Alternative Analysis – August 2017
- Preferred Option – October 2017
- Air Quality analysis and Conformity (not required)
- Adopt 2045 MTP – December 2017
- Technical report and implementation – December 2017

MPO Community Viz. Scenarios Planning and Visualization -2.0 (Connect 2025)

- ✓ Field verification – Complete
- ✓ Focus Groups/Delphi Process – FY 2015
- ✓ Model update and testing – September 2016
- ✓ Model/Scenario Building – May 2017
- Adopted SE Data – December 2017

2016/2017 MPO Data Collection & Surveillance of Change (Traffic/Travel Time/Crash/Transit)

- ✓ Data collection (Volume/Trucks/Travel Time/Speed) – ongoing –continuous data collection
- ✓ Data collection (Volume/Trucks/Travel Time/Speed) – ongoing –continuous data collection
- ✓ Transit data collection – ongoing –continuous data collection

GIS Online (AGOL)/Data Management

- ✓ MPO Interactive GIS/Mapping – Continuous/On-going
- ✓ Development of public portals for MPO applications – Continuous/On-going
- ✓ Maintenance and updates – Continuous/On-going
- ✓ Development of open data – Continuous/On-going

MPO Website Update and Maintenance

- ✓ Post Launch Services – Continuous/On-going
- ✓ Interactive GIS – Continuous/On-going
- ✓ Facebook/Twitter management – Continuous/On-going
- ✓ Enhancement of Portals – Continuous/On-going

Triangle Regional Model Update

- ✓ Household Survey
- ✓ Parking Survey
- ✓ Household Survey – On-going
- ✓ Onboard Transit Survey – Fall 2015/Spring 2016
- ✓ Calibration/Validation of Models for MTP analysis
- ✓ Sensitivity and elasticity analysis for travel demand model
- ✓ Generation of model measures of effectiveness
- Generate demand forecasts for horizon year and intermediate years

Prioritization 5.0/STI

- ✓ Summarize MPO P4 projects not funded (“Holding Tank” for P5) –February 2017
- ✓ Board approves existing projects revisions/modifications projects to be submitted for SPOT-5 – May 10, 2017 (deadline July 30, 2017)
- ✓ Preparation and ranking of new projects (23 for each mode) –February to June 2017
- ✓ Existing project revision/modification/deletion due to NCDOT for receiving extra new submittals (one out, one in) – July 30, 2017
- ✓ SPOT-5 Online opens for entering new P5 projects July 5 (deadline September 29, 2017)
 - Board approves new projects to be submitted for SPOT-5 – September 13, 2017
 - MPO submits new SPOT-5 projects to NCDOT – September 29, 2017
 - LPA updates local ranking methodology – February 2018
 - TCC makes recommendation on local ranking methodology – February 2018
 - Board approves local ranking methodology – March 2018
 - Deadline for approval of Local Input Points Assignment Methodologies –April 1, 2018
 - MPO applies local ranking methodology (points) – April - May 2018
 - Board releases MPO assigned points for local input/public comments – April 11, 2018
 - Board holds public hearing – June 2018
 - LPA addresses public comments and makes draft recommendation on local points for Regional category – June 2018
 - Approval of Regional Impact points – June 2018
 - Submission of Regional Impact points to NCDOT – June 2018
 - Assignment of Division Needs points (begins August 2018)

2018-2027 TIP

- ✓ LPA Staff releases call for projects for inclusion into 2018-27 MTIP – February 22, 2017
- ✓ MPO Board releases Draft STIP for public comment – March 8, 2017
- ✓ MPO Board holds public hearing on Draft STIP – April 12, 2017
- ✓ Local projects due to LPA staff for inclusion in MTIP – April 17, 2017
- ✓ Final amendments to FY16-25 STIP due to LPA staff – May 10, 2017
- ✓ TC reviews final FY16-25 STIP Amendment – May 24, 2017
- ✓ Draft MTIP prepared by LPA staff – July 14, 2017
- ✓ TC reviews Draft MTIP – July 26, 2017
- ✓ MPO Board reviews Draft MTIP – August 9, 2017
- ✓ State Board of Transportation approves FY18-27 STIP – August 2017
- TC approval of the 2018-27 MTIP – October 25, 2017
- MPO Board Approval of the 2018-2027 MTIP – November 8, 2017

Regional Freight Plan

- ✓ Consultant Selection/Contract Approval Complete
- ✓ Kick-Off Meeting – Conducted in July 2015
- ✓ Stakeholder outreach and engagement – October 2015
- ✓ Formation of the freight advisory committee – October 2015
- ✓ Data collection, analysis and assessment – November 2015
- ✓ Freight goals & objectives and performance measures – February 2016
- ✓ Analysis of freight existing conditions and trends – TBD
- ✓ Forecasts of future demands (2035 and 2045) – TBD
- ✓ Evaluation of future conditions – TBD
- ✓ Strategic freight corridors and zones – TBD
- Recommendation & implementation strategies – TBD
- Final report and presentation – TBD

MPO ADA Transition Plan

- ✓ Update self-assessment – Underway
- ✓ Draft MPO Transition Plan – August 2015
- ✓ Local reviews – September 2015
- ✓ FHWA review – September 2015
- ✓ Public comments – October-December 2015
- ✓ Stakeholder outreach – February 2017
- ✓ Roundtable discussion – May 11, 2017
- ✓ Self-assessment Data Analysis – July 2017-December 2017
- FHWA/NCDOT Final Review – February 2018
- Final approval – TBD

NC 98 Corridor Study

- ✓ Project kick-off and initial public engagement – February 2017
- ✓ Transportation analysis (and public engagement) – June 2017
- Conceptual designs and options (and public engagement) – September/October 2017
- Final plan – February 2018

NC 54 West Corridor Study

- ✓ Select consultant – February 2017

- Project kick-off and initial public engagement – September 2017
- Inventory and Existing Conditions – October 2017
- Transportation analysis (and public engagement) – January 2018
- Conceptual designs and options (and public engagement) – April 2018
- Final plan – August 2018

US 15-501 Corridor Study

- Funding approved by NCDOT

Regional Intelligent Transportation System

Project Development/NEPA

- US 70 Freeway Conversion
- NC 54 Widening
- NC 147 Interchange Reconstruction

DOLRT-Engineering

Contract Number: C203394		Route: I-885, NC-147, NC-98 US-70	
Division: 5		County: Durham	
TIP Number: U-0071			
Length: 4.009 miles		Federal Aid Number:	
NCDOT Contact: Cameron D. Richards		NCDOT Contact No: (919)840-0914	
Location Description: EAST END CONNECTOR FROM NORTH OF NC-98 TO NC-147 (BUCK DEAN FREEWAY) IN DURHAM.			
Contractor Name: DRAGADOS USA INC			
Contract Amount: \$141,949,500.00		Cost Overrun/Underrun: 1.8%	
Work Began: 02/26/2015		Letting Date: 11/18/2014	
Original Completion Date: 05/10/2020		Revised Completion Date:	
Latest Payment Thru: 07/31/2017		Scheduled Progress: 50.39%	
Latest Payment Date: 08/09/2017		Actual Progress: 46.09%	

Contract Number: C203492		Route: SR-2220	
Division: 5		County: Durham	
TIP Number: EB-4707B			
Length: 1.756 miles		Federal Aid Number: STPDA-0505(64)	
NCDOT Contact: Troy B. Brooks, PE		NCDOT Contact No: (919)220-4680	
Location Description: SR-2220 (OLD CHAPEL HILL ROAD) FROM SR-1113 (POPE ROAD) TO SR-1116 (GARRETT ROAD).			
Contractor Name: FSC II LLC DBA FRED SMITH COMPANY			
Contract Amount: \$7,295,544.75		Cost Overrun/Underrun: 0%	
Work Began: 06/26/2017		Letting Date: 05/16/2017	
Original Completion Date: 05/14/2019		Revised Completion Date:	
Latest Payment Thru: 07/31/2017		Scheduled Progress: 6.76%	
Latest Payment Date: 08/09/2017		Actual Progress: 3.52%	

Contract Number: C203567		Route: NC-55	
Division: 5		County: Durham	
TIP Number: U-3308			
Length: 1.134 miles		Federal Aid Number: STP-55(20)	
NCDOT Contact: Troy B. Brooks, PE		NCDOT Contact No: (919)220-4680	
Location Description: NC-55 (ALSTON AVE) FROM NC-147 (BUCK DEAN FREEWAY) TO NORTH OF US-70BUS/NC-98 (HOLLOWAY ST).			
Contractor Name: ZACHRY CONSTRUCTION CORPORATION			
Contract Amount: \$39,756,916.81		Cost Overrun/Underrun: 1.26%	
Work Began: 10/05/2016		Letting Date: 07/19/2016	
Original Completion Date: 03/30/2020		Revised Completion Date: 07/16/2020	
Latest Payment Thru: 08/15/2017		Scheduled Progress: 28.1%	
Latest Payment Date: 08/22/2017		Actual Progress: 16.93%	

Contract Number: DE00172		Route: I-540	
Division: 5		County: Durham	
TIP Number: I-5307B			
Length: 0 miles		Federal Aid Number: IM-0540(035)	
NCDOT Contact: Cameron D. Richards		NCDOT Contact No: (919)840-0914	
Location Description: BRIDGE #342 ON I-540 OVER I-40 & NW EXPRESSWAY IN DURHAM COUNTY			
Contractor Name: PROSHOT CONCRETE, INC.			
Contract Amount: \$509,276.00		Cost Overrun/Underrun: 0.01%	
Work Began: 05/22/2017		Letting Date: 10/26/2016	
Original Completion Date: 06/09/2017		Revised Completion Date: 07/14/2017	
Latest Payment Thru: 07/14/2017		Scheduled Progress: 100%	
Latest Payment Date: 07/20/2017		Actual Progress: 39.22%	

Contract Number: DE00173		Route: SR-1104	
Division: 5		County: Durham	
TIP Number: W-5205V			
Length: 0 miles		Federal Aid Number: HSIP-1104(19)	
NCDOT Contact: Troy B. Brooks, PE		NCDOT Contact No: (919)220-4680	
Location Description: SR 1104/SR 1105 (HERNDON RD) AT SR 1106 (MASSEY CHAPEL/ BARBEE RD) IN DURHAM COUNTY			
Contractor Name: TRIANGLE GRADING & PAVING INC			
Contract Amount: \$1,046,988.75		Cost Overrun/Underrun: 0.27%	
Work Began: 05/01/2017		Letting Date: 11/09/2016	
Original Completion Date: 08/18/2017		Revised Completion Date:	
Latest Payment Thru: 08/15/2017		Scheduled Progress: 98%	

Latest Payment Date: 08/30/2017		Actual Progress: 13.04%	
Contract Number: DE00193 Division: 5 TIP Number: R-4436EJ, R-4436EK Length: 0 miles NCDOT Contact: David B. Moore Location Description: INTERCHANGE OF I-85 AND SR 1637 (DURHAM CO) AND I-85 AND NC 56 (GRANVILLE CO) Contractor Name: CAROLINA ENVIRONMENTAL CONTRACTING INC Contract Amount: \$272,457.77 Work Began: 07/06/2017 Original Completion Date: 11/22/2017 Latest Payment Thru: 07/31/2017 Latest Payment Date: 08/03/2017		Route: I-85 County: Durham Federal Aid Number: STP-1637(004) NCDOT Contact No: (919)562-7000 Cost Overrun/Underrun: 0.81% Letting Date: 05/24/2017 Revised Completion Date: Scheduled Progress: 20% Actual Progress: 21.16%	
Contract Number: DE00195 Division: 5 TIP Number: I-5729A Length: 0 miles NCDOT Contact: Troy B. Brooks, PE Location Description: I-85 FROM 0.5 MILES W OF US 501 TO 0.1 MILES EAST OF SR 1827 IN DURHAM COUNTY Contractor Name: FSC II LLC DBA FRED SMITH COMPANY Contract Amount: \$3,797,637.47 Work Began: 07/22/2017 Original Completion Date: 10/31/2017 Latest Payment Thru: 08/07/2017 Latest Payment Date: 08/14/2017		Route: I-85 County: Durham Federal Aid Number: NHPP-0085(027) NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: -1.66% Letting Date: 03/08/2017 Revised Completion Date: Scheduled Progress: 45.1% Actual Progress: 26.43%	
Contract Number: DE00211 Division: 5 TIP Number: R-5785B Length: 0 miles NCDOT Contact: Troy B. Brooks, PE Location Description: MUNICIPALITIES OVER 5,000 POPULATION VARIOUS ROUTES DIVISIONWIDE Contractor Name: CAROLINA EARTH MOVERS INC Contract Amount: \$0.00 Work Began: 05/30/2017 Original Completion Date: 08/31/2017 Latest Payment Thru: Latest Payment Date:		Route: - County: Durham Federal Aid Number: TAP-0505(079) NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0% Letting Date: 03/20/2017 Revised Completion Date: 05/09/2018 Scheduled Progress: 0% Actual Progress: 0%	
Contract Number: DE00212 Division: 5 TIP Number: R-5785A Length: 0 miles NCDOT Contact: David B. Moore Location Description: MUNICIPALITIES LESS THAN 5,000 POPULATION VARIOUS ROUTES DIVISIONWIDE Contractor Name: CAROLINA EARTH MOVERS INC Contract Amount: \$0.00 Work Began: Original Completion Date: 08/31/2017 Latest Payment Thru: Latest Payment Date:		Route: - County: Durham Federal Aid Number: TAP-0505(078) NCDOT Contact No: (919)562-7000 Cost Overrun/Underrun: 0% Letting Date: 10/12/2016 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%	
Contract Number: DE00213 Division: 5 TIP Number: Length: 0 miles NCDOT Contact: Cameron D. Richards Location Description: VARIOUS PRIMARY AND SECONDARY ROUTES IN DURHAM COUNTY Contractor Name: CAROLINA SUNROCK LLC Contract Amount: \$0.00 Work Began: Original Completion Date: 06/01/2018 Latest Payment Thru: Latest Payment Date:		Route: - County: Durham Federal Aid Number: NCDOT Contact No: (919)840-0914 Cost Overrun/Underrun: 0% Letting Date: 06/28/2017 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%	

Contract Number: DE00214 Division: 5 TIP Number: Length: 0 miles NCDOT Contact: Troy B. Brooks, PE Location Description: VARIOUS SECONDARY ROUTES IN DURHAM AND PERSON COUNTIES Contractor Name: WHITEHURST PAVING CO INC Contract Amount: \$0.00 Work Began: Original Completion Date: 07/01/2018 Latest Payment Thru: Latest Payment Date:	Route: - County: Durham Federal Aid Number: NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0% Letting Date: 06/14/2017 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%
Contract Number: DE00216 Division: 5 TIP Number: W-5601GD, W-5601GG, W-5601HX W-5601HY Length: 0 miles NCDOT Contact: Troy B. Brooks, PE Location Description: SR 1361 (VICKERS AVE) AT LAKEWOOD AVENUE IN DURHAM COUNTY Contractor Name: BRENTWOOD DISPLAY SERVICES INC. Contract Amount: \$0.00 Work Began: 07/05/2017 Original Completion Date: 12/05/2017 Latest Payment Thru: Latest Payment Date:	Route: - County: Durham Federal Aid Number: HSIP-1361(010) NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0% Letting Date: 05/24/2017 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%
Contract Number: DE00229 Division: 5 TIP Number: Length: 0 miles NCDOT Contact: Troy B. Brooks, PE Location Description: REDWOOD ROAD OVER FALLS LAKE Contractor Name: NORTH STATE ENVIRONMENTAL, INC Contract Amount: \$0.00 Work Began: 09/05/2017 Original Completion Date: 10/23/2017 Latest Payment Thru: Latest Payment Date:	Route: - County: Durham Federal Aid Number: 15005.1032011 NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0% Letting Date: 08/10/2017 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%

NCDOT Division 5 Contract Status

<u>LET Est.</u>	<u>TIP Sub No.</u>	<u>Div</u>	<u>Let Type</u>	<u>Description</u>	<u>R/W (B)</u>	<u>Con Est</u>	<u>ROW Est</u>	<u>Comments</u>
08/17	C-5178	5	NON - DOT LET (LAP)	DURHAM - CAMPUS WALK AVENUE, MORRENE ROAD TO LASALLE STREET AND LASALLE STREET, KANGAROO DRIVE TO ERWIN ROAD CONSTRUCTSIDEWALKS		\$336,000		
08/17	SR-5001C	5	NON - DOT LET (LAP)	SAFE ROUTES TO SCHOOLS DURHAM - FAYETTEVILLE STREET ELEMENTARY SCHOOL	07/16			
08/17	U-4726HM	5	NON - DOT LET (LAP)	DURHAM - SIDEWALK ON AVONDALE DRIVE				
08/17	W-5601EM	5	Division POC Let (DPOC)	SR 1118 (FAYETTEVILLE ROAD) AT PILOT STREET AND CECIL STREET. SAFETY IMPROVEMENTS.		\$14,000		waiting on Durham to complete road diet project related to SR-5001C
09/17	2018CPT.05.04	5	Division Design Raleigh Let (DDRL)	Durham County Resurfacing and Preservation				
09/17	W-5707C	5	Division POC Let (DPOC)	I-40 WESTBOUND AT US 15-501 SOUTH OF DURHAM IN ORANGE AND DURHAM COUNTIES. REVISE PAVEMENT MARKINGS AND OVERHEAD LANE USE SIGNS ON I-40 WESTBOUND IN VICINITY OF US 15-501.	06/17	\$145,000		Division 7 Design
09/17	W-5705K	5	Division POC Let (DPOC)	SR 1327(GREGSON STREET)AT LAMOND AVENUE(MP:0.386-0.386); AND SR 1445(DUKE STREET)AT WEST CORPORATION STREET (MP:1.230-1.230) SAFETY IMPROVEMENTS	06/17	\$65,000	\$5,000	Gregson/Lamond under design, Duke/Corporation under construction by city forces
09/17	W-5601EH	5	Division POC Let (DPOC)	SR 1118 (FAYETTEVILLE ROAD) AT COOK ROAD. SAFETY IMPROVEMENTS.	08/17	\$545,000	\$130,000	Scope revised for signal installation only.
10/17	17BP.5.R.54	5	Division POC Let (DPOC)	REPLACE BRIDGE 117 OVER MUD CREEK ON SR 1308 (CORNWALLIS ROAD)		\$600,000		
10/17	I-5729	5	Division POC Let (DPOC)	I-85 - US 15/US 501 TO EAST OF SR 1827 (MIDLAND TERRACE ROAD) IN DURHAM. PAVEMENT PRESERVATION.		\$8,319,000		
12/17	U-4726HJ	5	NON - DOT LET (LAP)	CONSTRUCTION OF SIDEWALKS ON NC 751 BETWEEN GARRETT RD AND NC 54, AND ON NC 54 BETWEEN NC 751 AND DRESDEN DRIVE				
12/17	44932.3.1	5	On Call Contract (OCC)	US 70 Bus (Hillsborough Rd) at US 15-501 SB Ramp. Widen for an eastbound right turn lane		\$117,000		Signal design in progress. Considering channelization opportunities.
01/18	B-4943	5	Raleigh Letting (LET)	REPLACE BRIDGE 20 OVER DIAL CREEK ON SR 1616	12/16	\$1,450,000	\$92,000	
01/18	W-5705C	5	Division POC Let (DPOC)	US 501 AT GARRETT ROAD, US 501 BUSINESS AT WESTGATE DRIVE,US 501 BUSINESS AT TOWER BOULEVARD, AND US 501 BUSINESS AT SHANNON ROAD SAFETY IMPROVEMENTS		\$375,000		plans received, need environmental documents and R/W certification
02/18	EB-4707A	5	Division POC Let (DPOC)	SR 1838/ SR 2220 FROM US 15/501 IN ORANGE COUNTY TO SR 1113(POPE ROAD) IN DURHAM COUNTY BICYCLE, PEDESTRIAN AND TRANSIT IMPROVEMENTS	08/15	\$3,500,000	\$1,534,000	
06/18	U-5745	5	Division POC Let (DPOC)	NC 751 (HOPE VALLEY ROAD) AT SR 1183 (UNIVERSITY DRIVE) INTERSECTION IN DURHAM. CONSTRUCT ROUNDABOUT.	10/17	\$1,300,000	\$150,000	Public meeting held. Beginning R/W acquisition.
07/18	EB-5514	5	NON - DOT LET (LAP)	UNIVERSITY DRIVE (SR 2220, NC 751, SR 1183) FROM SR 2220 OLD CHAPEL HILL ROAD) TO SR 1158 (WEST CORNWALLIS ROAD)		\$1,025,000		
09/18	C-5183B	5	NON - DOT LET (LAP)	SR 1945 (S ALSTON AVENUE) FROM SR 1171 (RIDDLE ROAD) TO CAPPS STREET. CONSTRUCT SIDEWALKS IN DURHAM		\$706,000	\$99,000	
09/18	U-4724	5	NON - DOT LET (LAP)	SR 1158 (CORNWALLIS RD) FROM SOUTH ROXBORO RD TO SR 1183 (UNIVERSITY DR) IN DURHAM, BIKE AND PEDESTRIAN FEATURES.		\$4,978,000		

NCDOT Division 5 Contract Status

<u>LET Est.</u>	<u>TIP Sub No.</u>	<u>Div</u>	<u>Let Type</u>	<u>Description</u>	<u>R/W (B)</u>	<u>Con Est</u>	<u>ROW Est</u>	<u>Comments</u>
09/18	C-4928	5	NON - DOT LET (LAP)	CONSTRUCT BIKE LANES AND SIDEWALKS ON SR 1317 (MORRENE RD) IN DURHAM FROM NEAL ROAD TO ERWIN ROAD	09/17	\$5,783,000	\$7,000	
06/19	U-4726HN	5	NON - DOT LET (LAP)	CONSTRUCT BIKE LANES/SIDEWALKS IN DURHAM - HILLANDALE ROAD	09/17			
08/19	U-5516	5	Raleigh Letting (LET)	FROM US 501 (ROXBORO ROAD) TO SR 1448 (LATTA ROAD) / SR 1639 (INFINITY ROAD) IN DURHAM	08/18	\$5,500,000	\$2,000,000	Second public meeting being planned.
09/19	EB-5703	5	NON - DOT LET (LAP)	DURHAM - LASALLE STREET FROM KANGAROO DRIVE TO SPRUNT AVENUE		\$525,000		
09/19	EB-5704	5	NON - DOT LET (LAP)	DURHAM - RAYNOR STREET FROM NORTH MIAMI BOULEVARD TO NORTH HARDEE STREET		\$250,000		
09/19	EB-5708	5	NON - DOT LET (LAP)	NC 54 FROM NC 55 TO RESEARCH TRIANGLE PARK WESTERN LIMIT IN DURHAM CONSTRUCT SECTIONS OF SIDEWALK ON SOUTH SIDE		\$250,000		
09/19	EB-5715	5	NON - DOT LET (LAP)	US 501 BYPASS (NORTH DUKE STREET) FROM MURRAY AVENUE TO US 501 BUSINESS (NORTH ROXBORO ROAD) IN DURHAM CONSTRUCT SIDEWALK ON EAST SIDE TO FILL IN EXISTING GAPS		\$1,269,000		
09/19	EB-5720	5	NON - DOT LET (LAP)	BRYANT BRIDGE TRAIL - NC 55 TO KELLY BRYANT BRIDGE IN DURHAM		\$1,061,000		
10/19	17BP.5.R.97	5	Division POC Let (DPOC)	REPLACE BRIDGE 89 OVER LICK CREEK ON SR 1902 DURHAM COUNTY		\$1,250,000		
01/20	U-5968	5	Raleigh Letting (LET)	CITY OF DURHAM UPGRADE ITS / SIGNAL SYSTEM				
04/20	U-5717	5	Raleigh Letting (LET)	US 15 / US 501 - SR 1116 (GARRETT ROAD) IN DURHAM. CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	04/19	\$18,000,000	\$53,000,000	Public meeting planned for September.
06/21	U-5823	5	NON - DOT LET (LAP)	WOODCROFT PARKWAY EXTENSION. FROM SR 1116 (GARRETT ROAD) TONC 751 (HOPE VALLEY ROAD) IN DURHAM. CONSTRUCT ROADWAY ON NEW ALIGNMENT.	05/20	\$1,798,000	\$421,000	
01/22	U-5934	5	Raleigh Letting (LET)	NC 147 FROM I-40 TO FUTURE I-885(EAST END CONNECTOR) IN DURHAM ADD LANES AND REHABILITATE PAVEMENT				
03/22	U-5720A	5	Design Build Let (DBL)	US 70 (MIAMI BLVD) FROM LYNN ROAD TO SR 1959 (SOUTH MIAMI BOULEVARD/SR 1811 (SHERRON ROAD)		\$78,705,000	\$30,315,000	Concurrence received on purpose & need
03/22	U-5720B	5	Design Build Let (DBL)	US 70 (MIAMI BLVD) FROM LYNN ROAD TO SR 1959 (SOUTH MIAMI BOULEVARD/SR 1811 (SHERRON ROAD)		\$22,914,000	\$2,190,000	Concurrence received on purpose & need
06/22	I-5707	5	Raleigh Letting (LET)	I-40 - FROM NC 55 (ALSTON AVENUE) TO NC 147 (DURHAM FREEWAY/TRIANGLE EXPRESSWAY) IN DURHAM	06/20	\$3,550,000	\$300,000	

NCDOT DIV 7 PROJECTS LOCATED IN DCHCMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status
R-5787B 44917.3.3	Curb ramp improvements at various intersections in Orange and Alamance Co.	7/6/17	Fall 2017	\$303,400	Project awarded to Atlantic Contracting Company, Inc.
SS-4907BS 44894.2.1 44894.3.1	Installation of traffic signal at the intersection of US70 and SR 1114 (Buckhorn Road) East of Mebane.	Aug. 2017	Fall 2017	\$40,500 R/W \$43,200 CON	Signal design complete, R/W acquisition complete and certified, utility relocations pending
SS-4907BW 47356.1.1 47356.3.1	Intersection improvements at SR 1114 (Buckhorn Road) and SR 1146 (West Ten Road) east of Mebane. Convert two way stop to ALL WAY STOP. Construct radius improvements to accommodate turning traffic	Sept. 2017	Dec. 2017	\$3000 PE \$55,000 CON	Planning and design activities underway, Installation of 4-way stop in Sept. 2017
U-5549/SS-4907AZ 50153.3.F1 44227 44247	Churton Street Access Improvements - Traffic signal and curb ramp revisions on east side of NC 86 (Churton Street) at SR 1150/SR 1002 (King Street), and NC 86 (Churton Street) at Margaret Street. Grading, curb & gutter, crosswalks and signal modifications on the west side of NC 86 /US 70 Bus.(Churton Street) from Tryon Street to just south of Margaret Street. Grading, curb & gutter, crosswalk and bus pull-out on NC 86 / US 70 Bus. (Churton Street) from south of Margaret Street to just south of Nash and Koolock Street in Hillsborough.	11/1/2016	Fall 2017	\$156,000 CON \$245,000 CON \$120,000 CON	Construction underway - 30% complete
U-5846 50236.1.1 50236.2.1 50236.3.1	Construct a Roundabout at SR 1772 (Greensboro Street) and SR 1780 (Estes Drive) in Carrboro.	Jan. 2018	Mar. 2019	\$775,000	Planning and design activities underway, R/W acquisition underway
U-5847 50238.1.1 50238.2.1 50238.3.1	Intersection improvements at SR 1010 (West Franklin St.) and SR 1771 (Merritt Mill Rd)/SR1927 (Brewer Lane) in Chapel Hill / Carrboro.	Jan. 2019	Mar. 2019	\$775,000	Planning and design activities underway

NCDOT DIV 7 PROJECTS LOCATED IN DCHCMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status
U-5854 46382.1.1 46328.2.1 46382.3.1	Construct a roundabout at SR 1008 (Mt. Carmel Church Road) and SR 1913 (Bennett Road) in Chapel Hill	Jun. 2018	Fall 2019	\$775,000	Planning and design activities underway, Utility coordination underway, R/W acquisition underway
W-5707A 44853.1.1	Curb ramp improvements at the following intersections: SR 2048 (South Road) at Raleigh Street; SR 2048 (South Road) at Country Club Road, SR 1902 (Manning Drive) at Paul Hardin Drive, and SR 1902 (Manning Drive) at Ridge Road / Skipper Bowles Road in Chapel Hill	6/15/2017	Aug. 2017	\$80,000	Planning and design activities underway. Signal pedestrian improvements complete. Project let, Bid exceeded engineer's estimate, Re-bid pending
W-5707C 44853.1.3 44853.3.3 47490	Revise pavement markings and overhead lane use signs for removal of inside lane drop configuration on I-40 Westbound in vicinity of US 15-501 interchange. Resurfacing I-40 WB by use of contingency funds	Aug. 2017	Nov. 2017	\$395,000	Planning and design activities underway, Signs have been ordered
47418	Install chain link fence on both sides of SR1006 (Orange Grove Rd.) bridge over I-40 in Orange Co.	Oct. 2017	Dec. 2017	\$100,000	Project development underway, Tentative construction schedule pending design



North Carolina Department of Transportation

Active Projects Under Construction - Orange Co.

<u>Contract Number</u>	<u>TIP Number</u>	<u>Location Description</u>	<u>Contractor Name</u>	<u>Resident Engineer</u>	<u>Contract Bid Amount</u>	<u>Availability Date</u>	<u>Work Start Date</u>	<u>Completion Date</u>	<u>Progress Schedule</u>	<u>Completion Percent</u>
C203274		REPLACEMENT OF 11 BRIDGES IN ALAMANCE CO AND 3 BRIDGES IN ORANGE CO.	HAYMES BROTHERS, INC.	Kirkman, PE, Christopher D	\$6,356,520.00	04/29/2013	05/23/2013	12/13/2016	99.99	99.91
C203640		REPLACEMENT OF 4 BRIDGES IN GUILFORD COUNTY AND 3 BRIDGES IN ORANGE COUNTY.	HAYMES BROTHERS, INC.	Lorenz, PE, Kris	\$3,124,500.00	06/01/2015	09/02/2015	11/01/2017	76.00	70.82
C203641		REPLACEMENT OF 5 BRIDGES IN GUILFORD COUNTY AND 5 BRIDGES IN ORANGE COUNTY.	R.E. BURNS & SONS CO., INC.	Kirkman, PE, Christopher D	\$5,940,323.00	06/01/2015	06/01/2015	11/01/2018	42.50	87.50
DG00299		RESURFACE 22 SECTIONS OF SEC. ROADS IN SOUTHEAST ORANGE CO.	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$1,331,325.36	06/01/2016	09/28/2016	11/17/2017	44.00	99.83
DG00302	P-4405K	EXTEND BRYDSVILLE ROAD TO NC 86 AND REMOVE RAIL CROSSING	TRIANGLE GRADING & PAVING INC	Kirkman, PE, Christopher D	\$1,683,900.00	07/01/2016	09/29/2016	12/30/2017	100.00	40.59
DG00319		RESURFACE SR 1002 (ST. MARY'S ROAD) FROM US 70 TO THE DURHAM CNTY LINE AND SR 1548 (SCHLEY ROAD) FROM NC 57 TO SR 1002	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$2,173,386.35	04/03/2017	03/06/2017	11/17/2017	24.00	77.37
DG00323	C-5600F	INSTALLATION OF FIBER-OPTIC COMMUNICATION NETWORK AND RELATED WORK FOR CENTER TO CENTER CONNECTION	ALS OF NORTH CAROLINA LLC	Kirkman, PE, Christopher D	\$885,605.60	11/14/2016	02/27/2017	09/09/2017	86.00	55.17
DG00325		INSTALL ARCH PIPE ON SR 1919 (SOUTH GREENSBORO ST.) AT NC 54	FSC II LLC DBA FRED SMITH COMPANY	Kirkman, PE, Christopher D	\$1,970,791.00	11/14/2016	12/07/2016	11/30/2017	100.00	99.89
DG00331		RESURFACE 17 SECTIONS OF SECONDARY ROADS AND WIDEN AND RESURFACE SR 1354, SR 1504, SR1506 AND SR1577	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$2,144,964.12	04/03/2017	03/09/2017	11/17/2017	26.00	94.68
DG00332	W-5601 IF	GUARDRAIL END TERMINAL UPGRADES ON I-40	NICKELSTON INDUSTRIES, INC.	Kirkman, PE, Christopher D	\$494,243.00	12/05/2016	05/01/2017	09/05/2017		
DG00340		REPLACE BRIDGE NO. 137 ON SR 1550 (EDMUND LATTA RD) OVER FORESET CREEK	SMITH-ROWE, LLC	Kirkman, PE, Christopher D	\$389,523.35	03/15/2017	04/26/2017	12/15/2017	100.00	53.59
DG00341		REPLACE BRIDGE NO. 18 ON SR 1421 (LIB ROAD) EAST BACK CREEK TRIBUTARY WITH CULVERT	SMITH-ROWE, LLC	Kirkman, PE, Christopher D	\$310,294.00	03/15/2017	04/17/2017	01/15/2018	83.33	13.90
DG00345	U-3306(L)	LANDSCAPE ON SR 1733 WEAVER DAIRY ROAD	MOTS LANDSCAPING & LAWNS LLC	Kirkman, PE, Christopher D	\$73,101.80	01/23/2017	04/05/2017	06/15/2018	89.58	84.83
DG00346		REPLACE BRIDGE #209 OVER FRANK CREEK ON SR 1366 (ATKINS ROAD)	APPLE TUCK & ASSOCIATES INC	Kirkman, PE, Christopher D	\$363,834.19	05/01/2017	05/24/2017	02/07/2018	47.00	34.10
DG00356		AST RETREATMENT ONE SR IN ALAMANCE CO., ONE SR IN CASWELL CO. AND 21 SEC. ROADS IN ORANGE CO.	WHITEHURST PAVING CO INC	Kirkman, PE, Christopher D	\$956,526.41	04/03/2017	04/17/2017	10/13/2017	34.02	98.29
DG00360		RESURFACE US 70 FROM NC 86 TO THE DURHAM COUNTY LINE	S T WOOTEN CORPORATION	Kirkman, PE, Christopher D	\$1,780,970.19	06/14/2017	06/21/2017	08/19/2017	83.00	80.34
DG00383		REPLACE BRIDGE # 84 OVER COLLINS CREEK ON SR 1005 (OLD GREENSBORO RD)	DANE CONSTRUCTION INC	Kirkman, PE, Christopher D	\$1,290,279.37	07/24/2017	07/24/2017	05/15/2018		

ACTIVE PROJECTS - June 2017							
TIP/WBS # or Contract #	Project Description	Length (mi)	Let Date	Completion Date	Cost	Contractor	Comments
44195.3.1 DH00212	Construct a southbound left turn lane on NC 751 at New Hope Church Road & at NC 751 at SR 1617 Big Woods Road	1.74	9/27/2016	2/27/2018	\$1,489,500.00	FSC II, LLC, DBA Fred Smith Company	80% Completion
DH00211, 44807.3.1, SS- 4908BB	Improve edgeline and centerline markings on SR 1731 O'Kelly Chapel Rd from NC 751 to beginning of three lane section west of Pittard Sears Rd. Work includes adding 6" Thermoplastic w/Highly Reflective Elements (Edgelines) and 4" Thermoplastic Standard Bead (centerline)	2.2	9/13/2016	7/30/2017	TBD	Clark Pavement Marking, Inc	Contract covers other various counties.

UPCOMING PROJECTS				
TIP/WBS # or Contract #	Project Description	Let Date	Cost	Comments

Community Meetings – PTD Strategic Plan

Round 2 - Community Meetings	Date	Location
Northeastern (12:30 p.m. to 3:30 p.m.)	10/2/17	Pitt County Agricultural Extension Auditorium 403 Government Circle, Suite 2 Greenville, NC 27834
Southeastern (12:30 p.m. to 3:30 p.m.)	10/4/17	Bladen Community College Auditorium 7418 Highway 41 West, Dublin, NC
Technology (9:30 a.m. to 11:30 a.m.)	10/5/17	Research Triangle Foundation Meeting Rooms A&B 12 Davis Drive Durham, NC 27709
Triangle (12:30 p.m. to 3:30 p.m.)	10/5/17	Research Triangle Foundation Meeting Rooms A&B 12 Davis Drive Durham, NC 27709
Charlotte / Gastonia / Kannapolis (12:30 p.m. to 3:30 p.m.)	10/16/17	Rowan-Cabarrus Community College - South Campus Building 1000 (Main Building) Rm 106 (Comm. Rm) 1531 Trinity Church Road Concord, NC 28027
Mountain North (12:30 p.m. to 3:30 p.m.)	10/17/17	Blue Ridge Energy 2491 US Hwy 421 South Boone, NC 28607
Land Use (9:30 a.m. to 11:30 a.m.)	10/18/17	Piedmont Authority for Regional Transportation (PART) Board Room 107 Arrow Road Greensboro, NC 27409
Piedmont (12:30 p.m. to 3:30 p.m.)	10/18/17	Piedmont Authority for Regional Transportation (PART) Board Room 107 Arrow Road Greensboro, NC 27409
Mountain South (12:30 p.m. to 3:30 p.m.)	10/19/17	Asheville-Buncombe Tech Community College Conference Center, Room B 340 Victoria Road Asheville, NC 28801