



DCHC MPO Board Meeting Agenda

Wednesday, September 13, 2017

9:00 AM

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

1. Roll Call**2. Ethics Reminder**

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

3. Adjustments to the Agenda**4. Public Comments****5. Directives to Staff**[17-100](#)

Attachments: [2017-09-13 \(17-100\) MPO Board Directives to Staff.pdf](#)

CONSENT AGENDA**6. August 9, 2017 Board Meeting Minutes**[17-175](#)

A copy of the August 9, 2017 Board meeting minutes is enclosed.

Board Action: Approve the minutes of the August 9, 2017 Board meeting.

Attachments: [2017-09-13 \(17-175\) MPO Board Meeting Minutes 8.9.17 LPA2.pdf](#)

7. **Approval of Amendment #11 to the FY2016-25 Transportation Improvement Plan (10 minutes)**

[17-171](#)

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 STBGDA or CMAQ funds during the interim period. In order to allow projects that are ready to access those funds, an amendment to the current FY2016-25 is required.

Three DCHC MPO projects meet this description:

- C-5650, South Greensboro Street Sidewalk in Carrboro (this is a new TIP number due to the inclusion of CMAQ funds, previously U-4726Dx);
- U-5543, Variable Message Signs in Chapel Hill; and
- U-5549, Churton Street Improvements in Hillsborough.

This amendment will allow these projects to access FY18 STBGDA and FY18 CMAQ funds in early October. A summary list and full report of the changes are included as attachments along with a resolution to be signed by the MPO Board Chair upon approval by the Board.

TC Action: Recommended the Board approve Amendment #11 to the FY2016-25 Transportation Improvement Plan.

Board Action: Approve Amendment #11 to the FY2016-27 Transportation Improvement Plan.

Attachments: [2017-09-13 \(17-171\) TIP Amendment #11 Summary.pdf](#)
 [2017-09-13 \(17-171\) TIP Amendment #11 Full Report.pdf](#)
 [2017-09-13 \(17-171\) TIP Amendment #11 Resolution.pdf](#)

ACTION ITEMS

8. 2045 Metropolitan Transportation Plan (MTP) (30 minutes)[17-155](#)**Andy Henry, LPA Staff****Matt Day, Triangle J Council of Governments**

Today, there are three tasks related to the 2045 MTP that address the current effort to review the Alternatives Analysis or that begin the discussion of important topics for upcoming steps. The schedule for the 2045 MTP is as follows:

- * Deficiency Analysis; Board released in June
- * Alternatives Analysis, Board released in August
- * Preferred Option, Board to release in October
- * Adopted 2045 MTP, Board to adopt in December.

Alternatives Analysis Public Hearing

The Board released the Alternatives Analysis for public input at their August meeting and are scheduled to conduct a public hearing today. The metrics and maps are available on the MPO's Alternatives Analysis Web page: www.bit.ly/DCHC-MTP-Alternatives. The public input plan for the Alternatives Analysis and a compilation of the comments received thus far are attached.

2045 MTP Financial Plan

The MPO Board is to release the draft 2045 MTP, called the Preferred Option, for public input at their October meeting. The Preferred Option will need to be fiscally-constrained, or close to it, which means that the costs and revenues will need to be balanced. Staff will provide information on the three financial forecasts that were developed and a preliminary look at the cost/revenue balance. The Board objective is to understand the financial elements of the 2045 MTP and provide comments to staff.

Goals-Objectives-Performance Measures

The Board received and provided comments on the Goals and Objectives and the Performance Measures at meetings in May 2016 and September 2016, respectively. A copy of the Goals and Objectives, which have not changed since that time, is attached. At the September 2016 meeting, there were seventy-two suggested Performance Measures. Staff began work to identify a smaller set of Measures that are feasible to calculate and representative of the corresponding Objectives. Staff will present a recommendation at the October Board meeting. The objective today is to become familiar with the Goals and Objectives to help evaluate the upcoming Preferred Option and provide comments on the recommended Performance Measures.

TC Action: Recommend that the Board conduct a public hearing on the Alternatives Analysis at their September meeting.

Board Action: Conduct a public hearing on the Alternatives Analysis and provide comments on the financial forecasts.

Attachments: [2017-09-13 \(17-155\) 2045 MTP G&Obj.pdf](#)
 [2017-09-13 \(17-155\) 2045 MTP Finances.pdf](#)
 [2017-09-13 \(17-155\) 2045 MTP Public Input.pdf](#)
 [2017-09-13 \(17-155\) 2045 MTP Comments.pdf](#)

9. **SPOT P5.0 Project Submittals (20 minutes)**

[17-173](#)

Aaron Cain, LPA Staff

Under North Carolina's Strategic Transportation Investments (STI) law, transportation funds are allocated based on data-driven scoring and local input. DCHC's projects will be rated along with projects from across the state to determine which projects will be funded in the FY2020-29 Transportation Improvement Plan (TIP). DCHC must submit projects for consideration in the prioritization process for funding, called SPOT 5.0, for the FY2020-29 TIP by September 29.

DCHC may submit up to 23 projects per mode for SPOT 5.0 consideration. DCHC also gets an additional highway submittal because a project was removed from scoring that was previously in the FY 2018-27 TIP. LPA staff worked with a committee of local government staff to determine the 24 highway and 23 bicycle/pedestrian projects that will be submitted for DCHC. In addition, 21 transit and 10 rail projects have been identified for entry in SPOT 5.0. The TC recommended the attached list of projects be submitted for consideration for SPOT 5.0 at its August meeting, with one exception noted on the attachment.

TC Action: Recommended the attached list of highway, bicycle/pedestrian, transit, and rail projects for submittal for SPOT 5.0.

Board Action: Approve the list of projects to be submitted for SPOT 5.0.

Attachments: [2017-09-13 \(17-173\) DCHC Projects for Submittal for SPOT 5.0.pdf](#)

REPORTS:

10. **Report from the Board Chair**

[17-101](#)

Steve Schewel, Board Chair

Board Action: Receive the report from the Board Chair

11. **Report from the Technical Committee Chair**

[17-102](#)

TC Chair

Board Action: Receive the report from the TC Chair.

12. **Report from LPA Staff**

[17-103](#)

Felix Nwoko, LPA Manager

Board Action: Receive the report from LPA Staff.

Attachments: [2017-09-13 \(17-103\) LPA staff report.pdf](#)

13. NCDOT Report[17-104](#)

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

Traffic Operations - NCDOT

Board Action: Receive the reports from NCDOT.

Attachments: [2017-09-13 \(17-104\) NCDOT Progress Report.pdf](#)

INFORMATIONAL ITEMS**14. Recent News Articles and Updates**[17-105](#)

Attachments: [2017-09-13 \(17-105\) news articles.pdf](#)

Adjourn

Next meeting: October 11, 9 a.m., Committee Room

Dates of Upcoming Transportation-Related Meetings: None

MPO Board Directives to Staff

12/01/15 – Present (Completed/Pending/In Progress)

Meeting Date	Directive	Status
12/9/2015	Quarterly updates on D-O LRT project.	<u>On-going:</u> GoTriangle will provide quarterly updates to MPO Board.
2/15/2016	Draft Letter of Support for D-O LRT project to advance to Engineering Phase for MPO Board Chair signature	<u>Completed:</u> 2/18/2016.
4/13/2016	Research and consider renaming DCHC MPO an acronym that would be easier remember and simple to say.	<u>Completed.</u> 6/8/2016. DCHC MPO staff and the Technical Committee researched and provided a recommendation to the MPO Board.
4/13/2016	Provide the MPO Board with a breakdown of funding for highway program and non-highway program in the MPO TIP.	<u>Completed.</u> DCHC MPO staff created a summary report and distributed it during May 11, 2016 Board meeting.
5/11/2016	Schedule presentation from NCDOT Division and City Public Works regarding flooding on Trenton Road.	<u>Completed.</u> DCHC MPO staff arranged to have an update at the June 8, 2016 Board meeting.
5/11/2016	Prepare a presentation on the breakdown of funding for highway program and non-highway program in the MPO TIP.	<u>Completed.</u> DCHC MPO staff presented the summary report at the June 8, 2016 Board meeting.
6/8/2016	Update the DCHC MPO's tagline on the MPO website to provide information to the public that explains the MPO does regional transportation planning for the western Triangle area.	<u>Underway.</u> DCHC MPO staff is still working on updating the tagline on the MPO website.
6/8/2016	Request FHWA and NCDOT provide a presentation to the MPO Board that describes the federal process, requirements, and responsibilities related to MPO TIP development.	<u>Underway.</u> DCHC MPO staff is coordinating with FHWA and NCDOT to have a presentation at a future Board meeting.
6/8/2016	Conduct background study on toll roads and how they are used and affect municipalities like DCHC MPO.	<u>Underway.</u> Consultant selected and presentation was given at November 2016 joint DCHC/CAMPO MPO meeting. Topic will be further discussed at later DCHC MPO regular Board meetings.
12/14/2016	Draft letter to NCDOT regarding citizen request for "Bicycles May Use Full Lane" signs on Old NC 86 north of Carrboro, and to reiterate interest in providing bike lanes or wider shoulders to accommodate bicyclists.	<u>Completed.</u> DCHC MPO staff sent letter to NCDOT on January 30, 2017; response received March 15, 2017.
1/11/2017	Draft letter to NCDOT requesting that issues of equity for low-income users be incorporated into planning for managed lanes on I-40 and NC-147.	<u>Completed.</u> Draft completed January 29, 2017.

Meeting Date	Directive	Status
4-28-17	Determine the number of distance signs on freeways within the MPO's jurisdiction. Investigate the options for increasing the number of signs with NCDOT, particularly on and around the East End Connector at its completion.	<u>Underway.</u> MPO staff has found seven distance signs on freeways within the MPO's jurisdiction: four on I-85, one on NC-147, one on US 15-501, and one on I-85/40 in western Orange County. MPO staff will follow up with NCDOT about the opportunity for additional signs along I-40 in Durham and/or Orange counties.
4-28-17	Work with Division 7 to amend the signage plan for the East End Connector to include signs warning motorists about construction before the I-85/40 split.	<u>Underway.</u> MPO staff has contacted Division 7 regarding this request.
5-10-17	Have someone from NCDOT present to the MPO Board on synchronized/super streets.	<u>Completed.</u> Jim Dunlop of NCDOT's Congestion Management Division presented at the August MPO Board meeting.

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION BOARD

9 August 2017

MINUTES OF MEETING

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board met on August 9, 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:

Steve Schewel (MPO Board Chair)	City of Durham
Damon Seils (MPO Board Vice Chair)	Town of Carrboro
Karen Howard (Member)	Chatham County
Don Moffitt (Member)	City of Durham
Ellen Reckhow (Member)	Durham County
Ed Harrison (Member)	GoTriangle
Pam Hemminger (Member)	Town of Chapel Hill
Michael Parker (Alternate)	Town of Chapel Hill
Penny Rich (Alternate)	Orange County
Jenn Weaver (Alternate)	Town of Hillsborough
David Keilson	NCDOT, Division 5
Richard Hancock	NCDOT, Division 5
Patrick Wilson	NCDOT, Division 7
Jen Britt	NCDOT, Division 8
Julie Bogle	NCDOT, TPB
Craig Benedict	Orange County
Bergen Watterson	Town of Chapel Hill
Tina Moon	Town of Carrboro
Kayla Seibel	Town of Chapel Hill
John Hodges-Copple	Triangle J Council of Governments
Patrick McDonough	GoTriangle
Geoff Green	GoTriangle
Danny Rogers	GoTriangle
Terry Bellamy	City of Durham
Bill Judge	City of Durham
Bryan Poole	City of Durham
Ellen Beckmann	City of Durham
Mohammed Islam	City of Durham
Eddie Dancausse	Federal Highway Administration
Felix Nwoko	DCHC MPO
Andy Henry	DCHC MPO
Aaron Cain	DCHC MPO
Dale McKeel	DCHC MPO/City of Durham
Brian Rhodes	DCHC MPO
Anne Phillips	DCHC MPO
James H. Dunlop	NCDOT

Quorum Count: 9 of 10 Voting Members

Chair Steve Schewel 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 Board were identified and are indicated above. Chair Steve Schewel reminded everyone to sign-in using the sign-in sheet that was being circulated.

PRELIMINARIES:

2. Ethics Reminder

Chair Steve Schewel read the Ethics Reminder and asked if there were any known conflicts of interest with respect to matters coming before the MPO Board and requested that if there were any identified during the meeting for them to be announced. There were no known conflicts identified by MPO Board members.

3. Adjustments to the Agenda

There were no adjustments to the agenda.

4. Public Comments

Chair Steve Schewel 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.

5. Directives to Staff

The Directives to Staff were included in the agenda packet for review.

CONSENT AGENDA:

6. Approval of June 14, 2017 Meeting Minutes

7. Authorize Durham City Manager on behalf of DCHC MPO to enter into agreement with North Carolina Department of Transportation (NCDOT) for the Metropolitan Planning Program Grant (Section 5303) for FY18

Meg Scully, LPA Staff

8. FFY17 Section 5307/5340 FULL Apportionment Split Letter

74 Meg Scully, LPA Staff

75 Pam Hemminger made a motion to approve the items on the Consent Agenda. Karen Howard
76 seconded the motion. The motion passed unanimously.

77 **ACTION ITEMS:**

78 **9. Superstreets in North Carolina**

79 James H. Dunlop, P.E., North Carolina Department of Transportation

80 James Dunlop provided other names and a definition of superstreets. He also described some of
81 the benefits of superstreets, such as the ability to reduce crashes and delays. James Dunlop explained
82 why superstreets are effective at reducing crashes and described the results of a superstreet crash
83 reduction study. James Dunlop and Chair Steve Schewel discussed why Ohio was an outlier in the crash
84 reduction study. Don Moffitt and James Dunlop discussed why the severity of crashes may increase with
85 the implementation of superstreets. James Dunlop defined the four types of crashes (A, B, C, and fatal)
86 in response to Michael Parker's request for a definition of Class B crashes. James Dunlop stated that
87 crashes may involve two vehicles, a vehicle running off the road, or a vehicle and a pedestrian in
88 response to an inquiry from Penny Rich. James Dunlop explained how superstreets recapture the
89 capacity that is lost by installing traffic signals on a corridor using US 15-501 at Mt. Moriah Road and the
90 US 15-501 Erwin/Europa intersection as examples. There was discussion of some of the unintended
91 consequences of superstreets, and whether school buses, which generally do not turn right on red, were
92 factored into decisions about superstreets. Michael Parker and James Dunlop discussed whether
93 superstreets are appropriate for intersections with four approximately equal flows of traffic.

94 James Dunlop discussed the improved travel and wait times that were a result of converting the
95 Erwin/Europa intersection into a superstreet. James Dunlop explained the role that the signal cycle plays
96 in increasing wait times for people going across, not through, the Erwin/Europa intersection in response
97 to a question from Pam Hemminger. There was discussion of whether the US 15-501 study has received
98 funding.

99 Michael Parker and James Dunlop discussed whether it makes sense to implement a superstreet
100 at one intersection versus a series of intersections. There was continued discussion of whether the
101 superstreet at the Erwin/Europa intersection has improved conditions there. There was discussion of a
102 potential project on Sage Road. There was discussion of the portion of US 15-501 that will be studied
103 and whether the corridor study will consider development associated with the Durham-Orange Light Rail
104 Transit (D-O LRT). Don Moffitt commented on the air quality benefit that superstreets provide by
105 allowing cars to spend less wait time on the road.

106 James Dunlop discussed other examples of superstreets, the effect that superstreets have on
107 nearby businesses, and how superstreets can accommodate pedestrians by implementing staged
108 crossings. There was continued discussion of conditions necessary for staged crossings, and pedestrian
109 behavior at Mt. Moriah and US 15-501. James Dunlop discussed the development of the pedestrian
110 crossing at the Erwin/Europa intersection. Penny Rich and James Dunlop discussed pedestrian signage at
111 the Erwin/Europa intersection. James Dunlop shared an example of a mid-block crossing in Michigan,
112 and possible treatments to accommodate bicyclists on superstreets. There was discussion of the current
113 bicycle and pedestrian conditions at the Erwin/Europa intersection. James Dunlop explained how signal
114 timing can be used to control vehicular speed on superstreets. James Dunlop discussed other options
115 available for superstreets and reiterated the benefits associated with superstreets. James Dunlop
116 confirmed that superstreets would work well with driverless cars in response to an inquiry from Pam
117 Hemminger. James Dunlop and Mohammed Islam discussed the relationship between traffic signals and
118 U-Turns on superstreets.

119 Ellen Beckmann stated that a reverse superstreet has been proposed for Roxboro Road and
120 Latta/Infinity Road and that there would be a public meeting to discuss the proposal in the fall. James
121 Dunlop defined a reverse superstreet. Ellen Beckmann stated that there may be a MPO Board
122 presentation about the reverse superstreet on Roxboro Road and Latta/Infinity Road.

123 This item was informational and no further action was required by the MPO Board.

124 **10. Durham-Orange Light Rail Transit Entrance into Engineering Phase**

125 Danny Rogers, GoTriangle

126 Danny Rogers stated that on July 28, 2017, the Federal Transit Administration (FTA) approved
127 GoTriangle's request to enter the New Starts Engineering phase of the FTA's Capital Investment Grants
128 (CIG) program for the D-O LRT project.

129 Chair Steve Schewel stated that members of the public wishing to speak would be able to do so
130 after Danny Rogers' presentation.

131 Danny Rogers explained the implications of the FTA's decision, and stated that the project is
132 now moving from 30% to 100% design. He shared the next steps for the project and the local
133 commitment of funding needed for the project to progress. Danny Rogers stated that the required
134 percentage of the local commitment is currently available and would only require adjusting the language
135 of the financial plan. Danny Rogers stated that the D-O LRT project would be submitted through the
136 Strategic Prioritization Office of Transportation (SPOT) process in order to come up with the state
137 funding for the project. He added that the Staff Working Groups (SWGs) would be delivering quarterly
138 progress reports on the D-O LRT project and the County Transit Plans. Danny Rogers discussed the
139 procedure for making adjustments to the project moving forward to ensure the appropriate level of
140 oversight. Danny Rogers discussed possible changes to the project, primarily the Gateway Station
141 location adjustment, shifting the location of the Patterson Place Station location, the University Drive
142 alignment, and the possible addition of a Blackwell Street/Mangum Street station to serve the Durham
143 Performing Arts Center (DPAC) and the Durham Bulls' stadium. He added that these adjustments would
144 be taken to the public for their feedback. Chair Steve Schewel and Danny Rogers discussed the potential
145 cost of adding a new station. Chair Steve Schewel asked whether any members of the public wished to
146 speak. No members of the public wished to speak.

Pam Hemminger commented on the usefulness of Susan Shruth's recent presentation on the progress of the D-O LRT. Danny Rogers and Ellen Reckhow discussed the rating of the D-O LRT in relation to other New Starts projects, and the reason that the D-O LRT was rated medium-low on the revenue piece of the plan. Danny Rogers discussed steps that were taken to ensure the accuracy of the revenue projections. Chair Steve Schewel passed around an excerpt from an FTA publication that showed other New Starts projects and where they are in terms of development. Chair Steve Schewel added that based on Susan Shruth's presentation, the D-O LRT project was not necessarily competing for funding with other projects. It would receive funding as long as GoTriangle is able to comply with the FTA's requirements. Chair Steve Schewel commented that GoTriangle is on track to comply with the FTA's requirements.

Chair Steve Schewel and Danny Rogers discussed the implications of there being no funding for new projects in the president's proposed budget. Danny Rogers differentiated state and local funding, and clarified that non-New Starts funding from federal sources would be counted as local funding.

Pam Hemminger commented on the fact that the D-O LRT is one of the few brand new projects to receive funding, and that it gives the project more notoriety in the engineering phase. Danny Rogers commented that it was much more difficult to get the first phase of the project funded than the second in Charlotte's case.

Chair Steve Schewel asked if there were any public comments. There were no public comments.

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

11. New Position for Transit Planning Services for DCHC MPO

Aaron Cain, LPA Staff

The Durham and Orange County Transit Plans, adopted in April 2017, include an expectation that each county would create a SWG to develop Annual Transit Work Plans and review quarterly progress reports on the D-O LRT and other transit projects and services. The plans envision and fund an administrator to provide services to support the SWGs. Subsequent

discussions between the DCHC MPO, GoTriangle, and Triangle J Council of Governments (TJCOG) have determined that the position should be housed within DCHC MPO to serve these functions. In addition to serving the SWGs, the position would also perform transit planning and other duties for the DCHC MPO.

Ellen Reckhow and Aaron Cain discussed whether the current description of the position is consistent with the way it was described in the County Transit Plans. Chair Steve Schewel and Aaron Cain discussed the budget for the position and whether one person would be able to perform all of the tasks in the current description of the position. Aaron Cain stated that the DCHC MPO currently has nine and a half positions.

Pam Hemminger made a motion to approve the new position of transit planner for the DCHC MPO. Ellen Reckhow seconded the motion. The motion passed unanimously.

Penny Rich thanked Aaron Cain for holding an information session for new DCHC MPO Board members.

12. Resolution in Support of Vision Zero Durham

Terry Bellamy, City of Durham Director of Transportation

Terry Bellamy shared the overarching vision, core principals, and a brief history of the Vision Zero program. He also shared crash data for Durham County and discussed the strategies of the Vision Zero Durham program. Terry Bellamy stated that the City of Durham is currently developing complete street strategies and introducing traffic calming measures. Terry Bellamy shared the upcoming schedule of Vision Zero Durham events and led MPO Board meeting attendees in taking the Vision Zero Durham pledge.

Penny Rich and Craig Benedict discussed Leah Shahum's (founder and director of the Vision Zero Network) visit to Chapel Hill and whether Orange County would be adopting a Vision Zero program. Penny Rich received clarification that the resolution would only apply to Durham. Terry Bellamy and Ed Harrison discussed the point persons for the Vision Zero Durham program and the educational strategies

that would be employed by Vision Zero Durham. Bergen Watterson clarified that Leah Shahum would be visiting the University of North Carolina at Chapel Hill for her work on a board there, and would not be visiting with staff in Chapel Hill.

Ellen Reckhow made a motion to adopt the Resolution in support of Vision Zero Durham. Don Moffitt seconded the motion. The motion passed unanimously.

Chair Steve Schewel commended Terry Bellamy for his work on Vision Zero Durham and the recent Congestion Mitigation/Air Quality Improvement (CMAQ) projects.

13. 2045 Metropolitan Transportation Plan (MTP) -- Alternatives Analysis

Andy Henry, LPA Staff

Andy Henry discussed the next steps in the MTP development process and drew attention to the features of the Alternatives Analysis webpage on the DCHC MPO website. Andy Henry reviewed the maps that are available on the webpage and the schedule for developing, releasing, and adopting the MTP. He also called attention to deadlines that the MPO needs to meet in order to avoid triggering new plan requirements or a plan lapse. Andy Henry differentiated the four Alternative Analysis scenarios from each other, and discussed the methodology that was used to create the scenarios.

Andy Henry and Chair Steve Schewel discussed the meaning of the term “Locally Preferred Alternative.”

Andy Henry described the Alternative scenarios. Andy Henry and Ellen Reckhow discussed the socioeconomic data that was used for two of the Alternative scenarios. Ellen Reckhow and Andy Henry discussed the possibility of creating scenarios with certain mode splits in mind and using other communities that the DCHC MPO wishes to emulate as benchmarks. Andy Henry and Ellen Reckhow discussed the relationship between transit investment and mode choice in the Alternative scenarios. Michael Parker, Ellen Reckhow, and Andy Henry discussed the possibility of creating goal driven scenarios. Andy Henry stated that performance measures for goals and targets would be released with the preferred option or draft plan. There was continued discussion of whether and how the draft plan

would account for the DCHC MPO's goals and targets. Andy Henry stated that the DCHC MPO is coordinating development of goals, objectives, and targets, with the Capital Area Metropolitan Planning Organization (CAMPO).

Andy Henry and Michael Parker discussed whether self-driving cars are being factored into the development of the 2045 MTP. Felix Nwoko commented on the MPO's effort to gather data about connected vehicles.

Andy Henry discussed the performance measures, such as vehicle miles traveled (VMT) and vehicle hours traveled (VHT) that will be used to evaluate the scenarios.

Vice Chair Damon Seils commented that it was important to consider the level at which mode share numbers/targets are considered, as differences in mode share may not be evident if people do not have access to transit investments.

Andy Henry and Michael Parker discussed the factors, such as investments, that account for differences in the Alternative scenarios. They also discussed how land-use decisions affect the scenarios. Andy Henry continued to review the performance measures, such as travel isochrones, that would be used to evaluate the different scenarios. There was discussion of whether the D-O LRT and the Durham-Wake Commuter Rail had been factored into the Alternative scenarios. Andy Henry drew attention to a table comparing 2013 travel times with the moderate MTP. There was discussion of the increased travel times in the moderate MTP and how travel times may affect mode choice.

Andy Henry also reviewed the congestion maps, and discussed the comparison of Traffic Analysis Zones (TAZs) near the proposed light rail to the overall region. Andy Henry shared his methods for determining delays and the cost associated with those delays. He also explained the color coding on the congestion maps and his method for normalizing the data. Andy Henry discussed the next steps in the MTP process.

Pam Hemminger made a motion to release the 2045 MTP for a 42-day public comment period.

Ellen Reckhow seconded the motion. The motion passed unanimously.

14. FY2018-27 TIP Update

Aaron Cain, LPA Staff

Aaron Cain combined his discussion of the Transportation Improvement Plan (TIP) update and the SPOT 5.0 update. Agenda item 15 is a combination of agenda items 14 and 15.

15. SPOT 5.0 Update

Aaron Cain, LPA Staff

Aaron Cain stated that the DCHC MPO recently received its CMAQ award letter, and all of the requested projects were funded at the full amount. Aaron Cain added that a revised draft State Transportation Improvement Program (STIP) came out at the end of June 2017. He reviewed the list of major projects in the DCHC MPO area that received funding in the most recent draft STIP.

Penny Rich asked for and received clarification about the location of the list of funded projects in the draft STIP. Ed Harrison and Aaron Cain discussed the location of the Hillsborough Park and Ride that was funded in the draft STIP. There was discussion of whether all stages of the Duke Belt Line have received funding in the draft STIP. Aaron Cain and Jenn Weaver discussed whether the I-85 widening included the Old NC 86 bridge.

Aaron Cain reviewed reasons for removing the section from US 15-501 to the Durham Freeway of the I-40 managed lane project from SPOT 5.0 consideration. Aaron Cain explained that the project has triggered the corridor cap and therefore prevents the implementation of projects that are a higher priority for the DCHC MPO. In response to a question from Penny Rich, Aaron Cain reviewed the potential timeline for implementing the I-40 managed lane project and how it would affect other proposed projects like the I-40/NC 54 interchange improvements.

Ellen Reckhow commented on the past desire to see managed lanes on I-40 and how those managed lanes might encourage better behaviors such as carpooling, van pooling, and bus travel. Aaron

Cain shared a few arguments for submitting the project for SPOT consideration, primarily related to waiting for the results of the regional toll study. Aaron Cain stated that the STIP office is willing to work with the DCHC MPO on the programming of the managed lane project so that it does not become a committed project in SPOT 5.0, which would give the DCHC MPO another two years to re-evaluate the project. There was discussion of whether the toll study is considering exemptions for other uses of High Occupancy Vehicles (HOV) lanes, such as buses.

Chair Steve Schewel and Aaron Cain discussed CAMPO's desires about both segments of the project. Vice Chair Damon Seils and Aaron Cain discussed why the project is scoring well in the SPOT process although it is not the highest priority for the DCHC MPO. Aaron Cain, Vice Chair Damon Seils, and Richard Hancock discussed whether there was a guarantee that the managed lane project would not become a committed project.

Chair Steve Schewel stated that the DCHC MPO is working with CAMPO on other projects, such as the Wake Bus Rapid Transit (BRT), and emphasized the importance of taking CAMPO's desire on the managed lane projects into consideration. There was continued discussion of whether there was a way to be sure that the STIP office would guarantee that the managed lane project would not become a committed project. There was additional discussion of whether the toll study is taking HOV exemptions into consideration. Chair Steve Schewel and Aaron Cain discussed the corridor cap implications of the managed lane project being classified as committed versus developmental. Richard Hancock pointed out that the project will automatically be reprioritized in two years if it is left as a developmental project. Richard Hancock added that toll revenue would not count towards the corridor cap in response to comments from Ellen Reckhow.

Chair Steve Schewel reviewed reasons for leaving the Durham portion of the managed lane project in for SPOT 5.0 consideration, and asked Aaron Cain to continue his discussions with CAMPO on the matter. There was discussion of whether one or both sections of the project would be left in for

SPOT 5.0 consideration. Aaron Cain and Vice Chair Damon Seils discussed the implications of leaving the managed lane project in for SPOT consideration. Ellen Beckmann shared reasons behind the Technical Committee's recommendation to withdraw the project from SPOT consideration. Aaron Cain confirmed that the two parts of the managed lane project are severable in response to a question from Michael Parker. Ellen Beckmann clarified that both portions of the project would be studied regardless of whether or not the portion under discussion was removed from SPOT 5.0 consideration. Aaron Cain and Richard Hancock discussed whether the National Environmental Policy Act (NEPA) study would include both parts of the project, and Richard Hancock stated that it should. Aaron Cain pointed out that the regional toll study is a separate project not tied to the programming of the managed lanes themselves. There was continued discussion of whether the managed lane project should be withdrawn from SPOT consideration and then resubmitted for consideration in SPOT 6.0.

Chair Steve Schewel conducted a straw poll to see if there was support for pulling the project. The straw poll indicated that there was support for withdrawing the project from SPOT consideration. Pam Hemminger stated that it should be noted that the project was being pulled because the DCHC MPO has higher priorities, not because the DCHC MPO does not like the project.

Aaron Cain reviewed the conditions that are necessary for modifying projects, primarily the project not being in the committed stage and concurrence from the Divisions, and reviewed the list of projects that will be modified. Aaron Cain reviewed the updated schedule for releasing the draft TIP. Chair Steve Schewel thanked Aaron Cain for including the deletion of the Blackwell/Mangum grade separation. Aaron Cain reviewed the number of projects that can be submitted for the FY20-29 TIP, noting that the MPO would receive an extra highway project submittal in SPOT 5.0 for deleting an existing highway project.

Aaron Cain discussed Secretary James Trogdon's request that all Divisions and planning organizations collaborate on deciding on alternate criteria for SPOT consideration. Pam Hemminger

asked whether there was a decision to change the freight weighting. Aaron Cain stated that all parties in a region or division would have to agree to alternate criteria, and highlighted the lack of freight data for state routes. Aaron Cain stated that there was no agreement about increasing the safety score for regional projects in Region C. Aaron Cain defined accessibility and connectivity in response to a question from Ellen Reckhow.

Aaron Cain stated that the MPO Board Chair needed to sign a letter in order to approve the alternate SPOT criteria. Pam Hemminger made a motion to allow the MPO Board Chair to sign the letter approving the alternate criteria weighting options. Karen Howard seconded the motion. The motion passed unanimously.

Aaron Cain confirmed that the most of the DCHC MPO's modifications were rejected for SPOT 5.0 projects. He discussed reasons for the rejection of the modifications and the next steps in light of the rejected modifications.

REPORTS:

8. Report from the DCHC MPO Board Chair

Steve Schewel, DCHC MPO Board Chair

There was no report from the DCHC MPO Board Chair.

9. Report from the DCHC MPO Technical Committee Chair

Ellen Beckmann, DCHC MPO TC Chair

There was no report from the TC Chair.

10. Reports from LPA Staff

Felix Nwoko, LPA Staff

There was no report from the LPA Staff.

11. NCDOT Reports:

Richard Hancock, NCDOT Division 5, provided an update on the Old Chapel Hill Road bicycle and pedestrian project. Ed Harrison and Richard Hancock discussed the proposed closure of Pope Road

for 21 days for the project. Richard Hancock shared the detour route that would be used for the Pope Road closure.

Pat Wilson, NCDOT Division 7, provided updates on the Mt. Carmel /Bennet Road roundabout and the Greensboro/Estes roundabout. He added that there was a Doodle Poll going around for a meeting about intersection improvements at the Franklin/Merritt Mill intersection. Tina Moon confirmed that Vice Chair Damon Seils would be added to the poll for the Franklin/Merritt Mil meeting. Pat Wilson confirmed that Division 7 would submit at least two bicycle and pedestrian projects for SPOT 5.0 for Chapel Hill.

Jennifer Britt, NCDOT Division 8, and Pam Hemminger discussed whether a project is currently being considered at Jack Bennet Road. Aaron Cain stated that the staff has considered submitting a modernization of Jack Bennett Road for SPOT prioritization. Chair Steve Schewel asked staff to follow up with Orange County representatives on the issue of Jack Bennett Road.

Julie Bogle, NCDOT Transportation Planning Branch, stated that the NCDOT Board of Transportation adopted the DCHC MPO Comprehensive Transportation Plan (CTP) on August 3, 2017. Julie Bogle also provided updates on ongoing efforts to improve the CTP process, the freight plan, and a strategic transportation plan. She added that a Request for Proposals (RFP) was just released for a state funding plan for all modes and that work will begin on that plan in 2018.

There was no report from NCDOT Traffic Operations.

INFORMATIONAL ITEMS:

12. Recent News, Articles, and Updates

There were no informational items.

ADJOURNMENT:

There being no further business before the DCHC MPO Board, the meeting was adjourned at

12:10 p.m.



Durham - Chapel Hill - Carrboro
Metropolitan Planning Organization Board
September 13, 2017

FY 2016-2025 TIP Amendment #11 Summary Sheet

See full report for additional information on each project.

- **C-5650 South Greensboro Street Sidewalk:** Dedicate additional \$277,386 in FY18 STBGDA funds and \$440,000 in FY18 CMAQ funds to allow for construction in the current fiscal year. Move \$100,000 from Construction to ROW.
- **U-5543 Variable Message Signs in Chapel Hill:** Move \$32,800 of FY17 STP-DA funds from Construction to PE/Design. Move the remainder of the FY17 STP-DA funds to FY18 STBGDA. Dedicate an additional \$428,750 of FY18 STBGDA funds for Construction.
- **U-5549 Churton Street Improvements:** Add \$231,740 of FY18 STBGDA funds for Construction.

TIP Amendment Request - Add or Create a New Project

Amendment Request Details

Date: 8-6-17

Amendment Requested By: Town of Carrboro

Existing Project Details

Project Name: South Greensboro Street Sidewalks

STIP/TIP #: C-5650

Jurisdiction/Agency: Carrboro

WBS # or Federal Aid #:

Munis Grant #:

Proposed Project Schedule and Funding: Enter the full proposed project schedule and funding.

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
2018	PE/Design	STBGDA	\$84,104	\$0	\$21,026	\$105,130
2018	ROW	STBGDA	\$100,000	\$0	\$25,000	\$125,000
2018	Construction	STBGDA	\$530,386	\$0	\$132,596	\$662,982
2018	Construction	CMAQ	\$440,000	\$0	\$110,000	\$550,000
2018	Construction	LOCAL	\$0	\$0	\$504,750	\$504,750
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$1,154,490	\$0	\$793,372	\$1,947,862

Total Project Cost

Please provide previous STIP/TIP # (if applicable): U-4726Dx

If this project has been added to the NCDOT STIP, please provide date of STIP action, or Split Letter, etc. and attach supporting information:

Please provide Project Description/Details/Termini/etc.:

Construct sidewalk on one side of South Greensboro Street from the public works driveway (one intersection with Old Pittsboro Road) to the other intersection with Old Pittsboro Road near downtown Carrboro.

Please provide any additional details or explanation related to this project (if applicable):

New stand-alone number issued due to inclusion of CMAQ funds into the project. Amendment to FY16-25 TIP necessary in order to access FY18 STBGDA funds prior to January 1, 2018. Movement of FY17 STP-DA funds to FY18 STBGDA. CMAQ funds moved from FY19 to FY18 with approval of Transportation Planning Branch.

Please email completed form and any supporting documents to DCHC MPO TIP manager. Please follow-up with TIP manager to confirm receipt of form.

TIP Amendment Request - Revise An Existing Project

Amendment Request Details



TIP Amendment
(change in funding
greater than \$1M)



TIP Modification
(change in funding
less than \$1M)



There are previous
amendments to
this project.

Date: 8-6-17

Amendment Requested By: [Town of Chapel Hill](#)

Existing Project Details

Project Name: [Variable Message Signs in Chapel Hill](#)

STIP/TIP #: [U-5543](#)

Jurisdiction/Agency: [Chapel Hill](#)

WBS or Local ID or Federal Aid #:

MUNIS #:

Existing Project Schedule and Funding: Enter the most current project information.

Use the MPO database: bitly.com/mpoprojects

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
Prior Year	PE/Design	STP-DA	\$75,200	\$0	\$18,800	\$94,000
2017	Construction	STP-DA	\$419,000	\$0	\$105,000	\$524,000
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$494,200	\$0	\$123,800	\$618,000

Total Project
Cost

Proposed Project Schedule and Funding: Enter the full proposed project schedule & funding.

In many cases, the current project information from the above table will be re-entered at the top of the Proposed Table to represent FULL project information.

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
Prior Year	PE/Design	STBGDA	\$75,200	\$0	\$18,800	\$94,000
2017	PE/Design	STBGDA	\$32,800	\$0	\$8,200	\$41,000
2018	Construction	STBGDA	\$778,000	\$0	\$194,500	\$972,500
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$886,000	\$0	\$221,500	\$1,107,500

Total Project
Cost

TIP Amendment Request - Revise An Existing Project

Project Details - Continued

Please provide previous STIP/TIP # or new STIP/TIP # (if applicable):

If this amendment has already been reflected in the NCDOT STIP,
please provide date of STIP action and attach supporting information:

Project Description/Details/Termini/etc. to be amended (if applicable):

Addition of \$400,000 of FY18 STBGDA funds. Appropriate local match for new STBGDA funds is also added.
Reprogram \$32,800 of FY17 STPDA funds to PE/Design; the remainder of those fund move to FY18.

+

Please provide additional details or explanation related to this amendment request such as explanation for schedule delays, project cost changes, or other supporting information (if applicable). For example, why is this amendment being requested?

FY2018-27 TIP concurrence with STIP is delayed to January 1, 2018. This amendment to the FY2016-25 TIP is necessary in order to access FY18 STBGDA funds prior to January 1.

Please email completed form and any supporting documents to DCHC MPO TIP manager. Please follow-up with TIP manager to confirm receipt of form.

TIP Amendment Request - Revise An Existing Project

Amendment Request Details



TIP Amendment
(change in funding
greater than \$1M)



TIP Modification
(change in funding
less than \$1M)



There are previous
amendments to
this project.

Date: 8-6-17

Amendment Requested By: Town of Hillsborough

Existing Project Details

Project Name: Churton Street Improvements

STIP/TIP #: U-5549

Jurisdiction/Agency: Hillsborough

WBS or Local ID or Federal Aid #:

MUNIS #:

Existing Project Schedule and Funding: Enter the most current project information.

Use the MPO database: bitly.com/mpoprojects

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
2016	Construction	STP-DA	\$125,000	\$0	\$31,000	\$156,000
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$125,000	\$0	\$31,000	\$156,000

Total Project
Cost

Proposed Project Schedule and Funding: Enter the full proposed project schedule & funding.

In many cases, the current project information from the above table will be re-entered at the top of the Proposed Table to represent FULL project information.

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
2016	Construction	STP-DA	\$125,000	\$0	\$31,000	\$156,000
2018	Construction	STBGDA	\$231,740	\$0	\$57,935	\$289,675
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$356,740	\$0	\$88,935	\$445,675

Total Project
Cost

TIP Amendment Request - Revise An Existing Project

Project Details - Continued

Please provide previous STIP/TIP # or new STIP/TIP # (if applicable):

If this amendment has already been reflected in the NCDOT STIP, please provide date of STIP action and attach supporting information:

Project Description/Details/Termini/etc. to be amended (if applicable):

Addition of \$231,740 of FY18 STBGDA funds. Appropriate local match for new STBGDA funds is also added.

Please provide additional details or explanation related to this amendment request such as explanation for schedule delays, project cost changes, or other supporting information (if applicable). For example, why is this amendment being requested?

FY2018-27 TIP concurrence with STIP is delayed to January 1, 2018. This amendment to the FY2016-25 TIP is necessary in order to access FY18 STBGDA funds prior to January 1.

Please email completed form and any supporting documents to DCHC MPO TIP manager. Please follow-up with TIP manager to confirm receipt of form.

**RESOLUTION TO MODIFY THE 2016-2025 TRANSPORTATION
IMPROVEMENT PROGRAM FOR THE DURHAM-CHAPEL HILL-CARRBORO
METROPOLITAN PLANNING AREA**

**AMENDMENT #11
September 13, 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 Transportation Improvement Program (TIP) is a staged multiple year listing of all federally funded transportation projects scheduled for implementation within the Durham-Chapel Hill-Carrboro Metropolitan Planning Area which have been selected from a priority list of projects; and

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

WHEREAS, the inclusion of the TIP in the transportation planning process was first mandated by regulations issued jointly by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) and no project within the planning area will be approved for funding by these federal agencies unless it appears in the officially adopted TIP; and

WHEREAS, the procedures for developing the TIP have been modified in accordance with certain provisions of the MAP-21 Federal Transportation Act, Fixing America's Surface Transportation (FAST) Act, and guidance provided by the State; and

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

WHEREAS, the North Carolina Department of Transportation and the MPO Board have determined it to be in the best interest of the Urban Area to amend the FY 2016-2025 Transportation Improvement Program as described in the attached sheets; and

WHEREAS, in the summer 2015 the United States Environmental Protection Agency designated the DCHC MPO Urbanized Area as attainment for air quality conformity; and

WHEREAS, the DCHC MPO certifies that this TIP amendment is consistent with the intent of the DCHC MPO 2040 Metropolitan Transportation Plan (MTP); and

BE IT THEREFORE RESOLVED that the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board hereby approve the Amendment #8 to the FY 2016-2025 Transportation Improvement Program of the Durham-Chapel Hill-Carrboro Urban Area, as approved by the Board on September 13, 2017, and as described in the "FY 2016-2025 TIP Amendment #11 Summary Sheets" on this, the 13th day of September, 2017.

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: September 13, 2017

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

2045 MTP Goals and Objectives

Goals	Objectives
I. Protect Environment and Minimize Climate Change	<ul style="list-style-type: none"> A. Reduce mobile source emissions, GHG, and energy consumption B. Reduce the negative impacts on the natural and cultural environment
II. Connect People	<ul style="list-style-type: none"> A. Connect people to jobs, education and other important destinations using all modes B. Ensure transportation needs are met for all populations (especially the aging and youth, economically disadvantaged, mobility impaired, and minorities)
III. Promote Multimodal and Affordable Travel Choices	<ul style="list-style-type: none"> A. Enhance transit services, amenities and facilities B. Improve bicycle and pedestrian facilities C. Increase utilization of affordable non-auto travel modes
IV. Manage Congestion & System Reliability	<ul style="list-style-type: none"> A. Allow people and goods to move with minimal congestion and time delay, and greater predictability. B. Promote Travel Demand Management (TDM, such as carpool, vanpool and park-and-ride) C. Enhance Intelligent Transportation Systems (ITS, such as ramp metering, dynamic signal phasing and vehicle detection systems)
V. Improve Infra- structure Condition	<ul style="list-style-type: none"> A. Increase proportion of highways and highway assets in 'Good' condition B. Maintain transit vehicles, facilities and amenities in the best operating condition. C. Improve the condition of bicycle and pedestrian facilities and amenities D. Improve response time to infrastructure repairs

Goals	Objectives
VI. Ensure Equity and Partici-pation	A. Ensure that transportation investments do not create a disproportionate burden for any community B. Enhance public participation among all communities
VII. Promote Safety and Health	A. Increase safety of travelers and residents B. Promote public health through transportation choices
VIII. Stimulate Economic Vitality	A. Improve freight movement B. Link land use and transportation C. Target funding to the most cost-effective solutions D. Improve project delivery for all modes

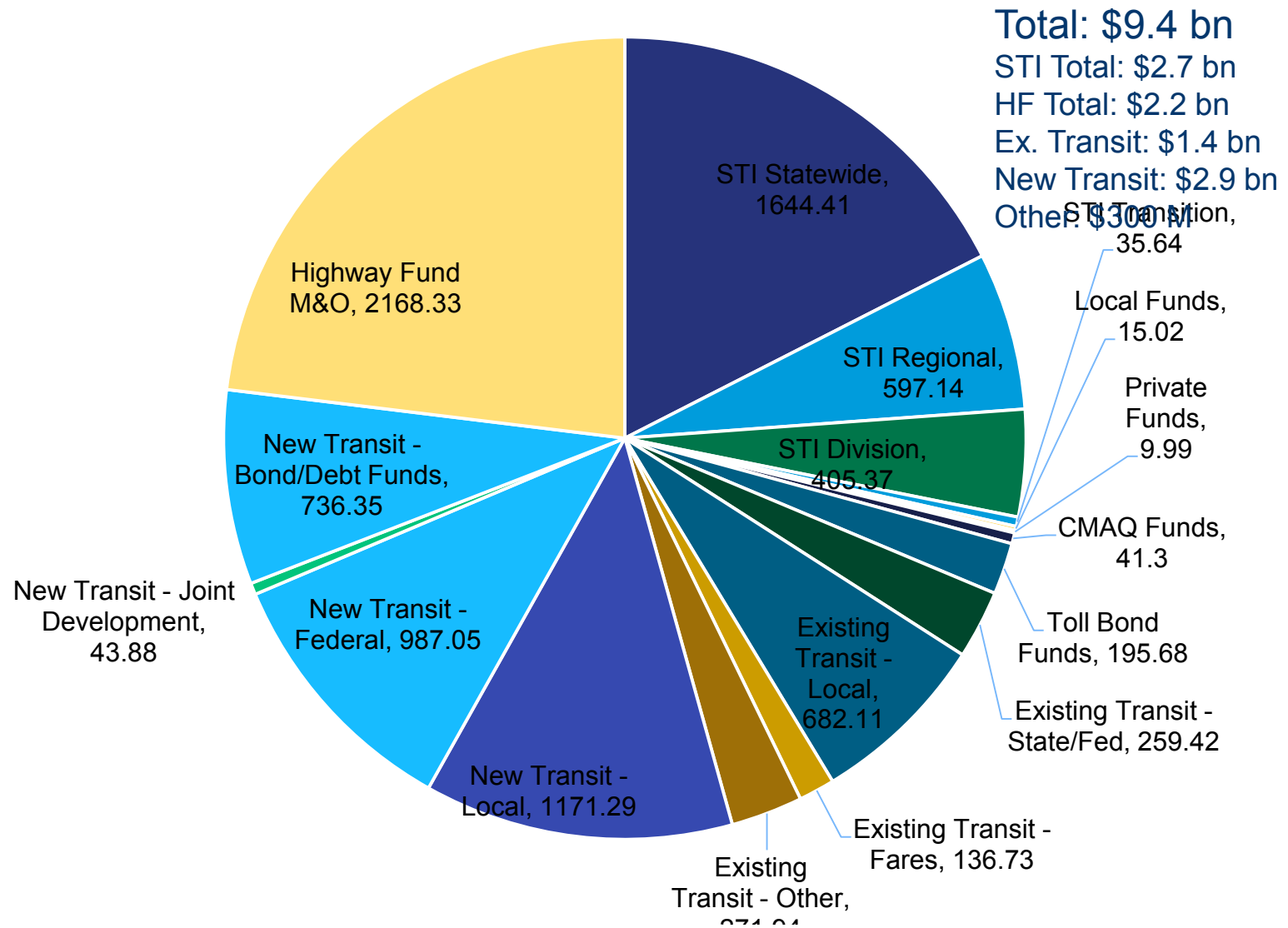
2045 MTP Fiscal Constraint Forecast

Presentation to DCHC MPO Board
September 13, 2017

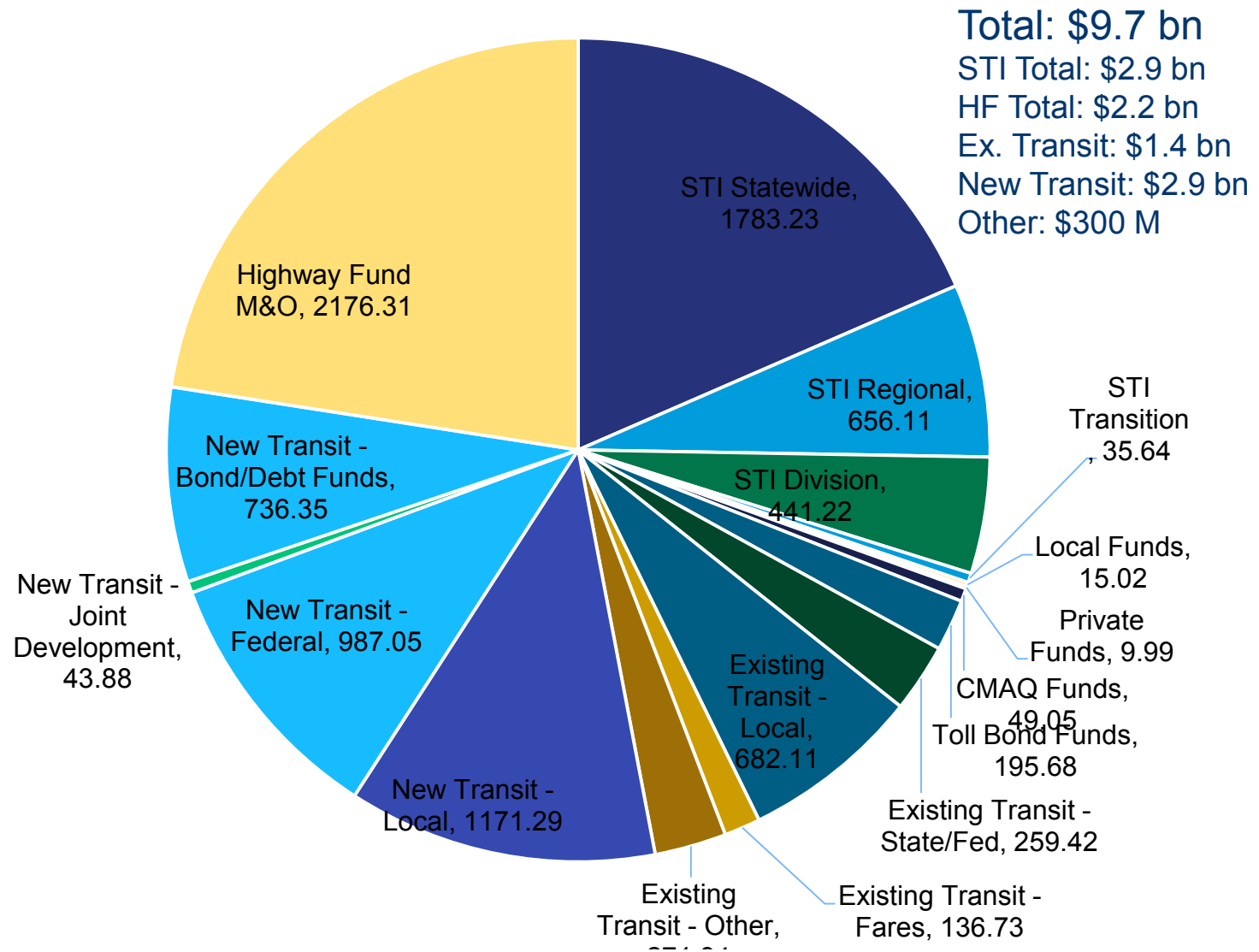
Basis of 2045 Forecast

- ▶ State/federal funding is assumed to work within the framework/ constraints of STI (where applicable)
- ▶ Transit funding is assumed to be consistent with county plans for new service, and existing funding patterns/levels for existing service
- ▶ Three financial forecasts were developed:
 - ▶ Constrained – Assumed growth of state funds in line with NCDOT projections, flat federal revenues
 - ▶ Moderate – Assumed slightly higher growth of state funds, growth of federal funds consistent with FAST Act trends
 - ▶ Aspirational – Assumed overall STI funding would grow at a rate consistent with 2018-27 STIP (which is higher growth than historic trend)

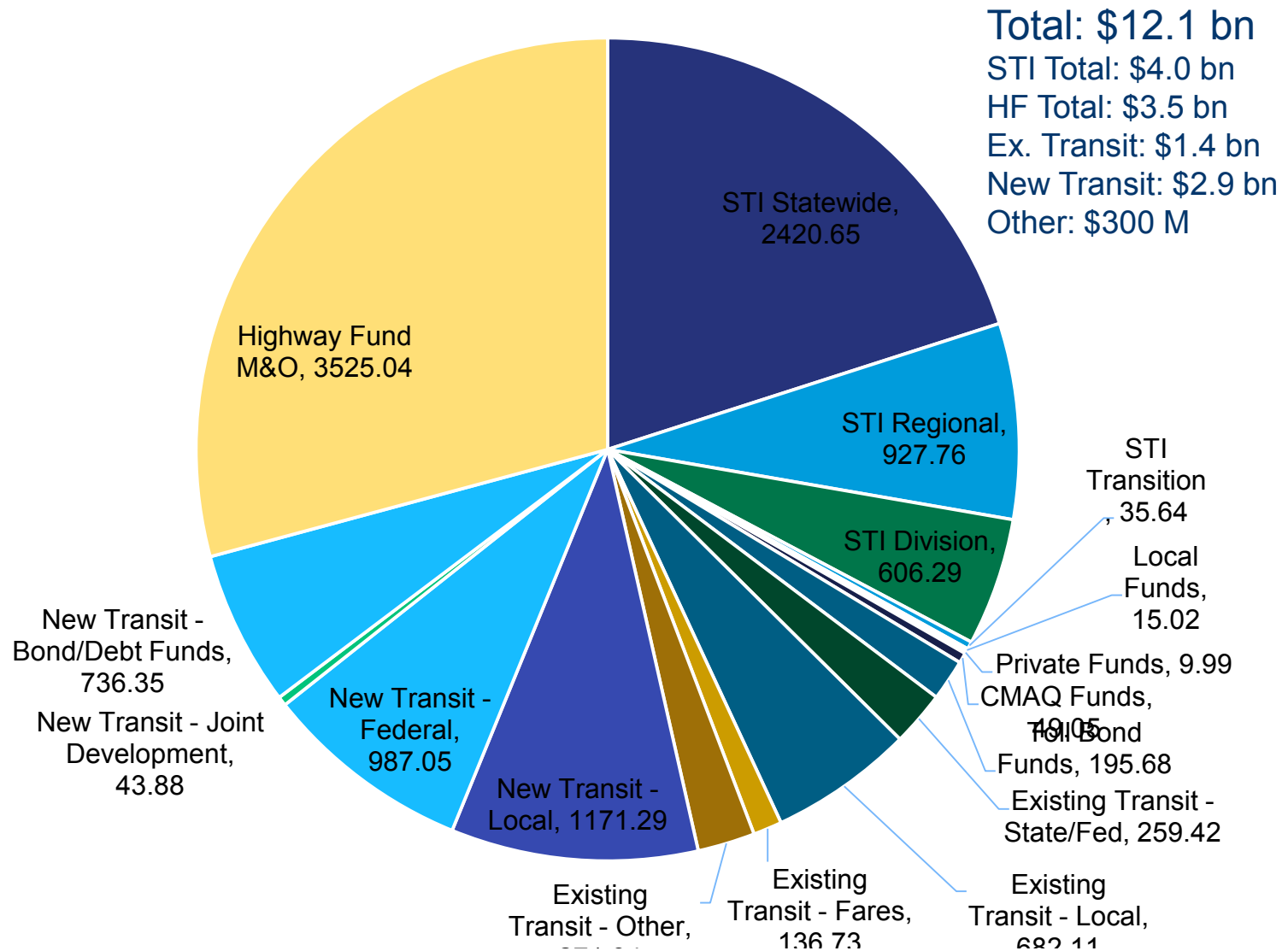
Constrained Forecast (2016 Dollars, Millions)



Moderate Forecast (2016 Dollars, Millions)



Aspirational Forecast (2016 Dollars, Millions)



Notes on STI Funds in Aspirational Forecast

- ▶ In first decade of MTP (through 2025), assumes the projects already shown in STIP (\$831 M)
- ▶ In second decade new projects can be added with the following caveats:
 - ▶ All of the expected Statewide category funding for 26-35 is already spoken for in current STIP projects
 - ▶ \$159M of regional funds already spoken for, leaving \$213M to program
 - ▶ \$21M of division funds already spoken for, leaving \$207M to program
- ▶ In third decade (36-45) new projects can be added as follows:
 - ▶ \$981M for statewide
 - ▶ \$423M for regional
 - ▶ \$256M for division
- ▶ Any STI revenues that are expected to pay toward the new transit services in the county plans (estimated at \$191M) must also be subtracted out from the STI funding. So if we assumed these were Regional STI funds in the second decade, that would leave only \$22M to program on other regional projects that decade.



2045 Metropolitan Transportation Plan (MTP)

Very Preliminary Costs and Revenues

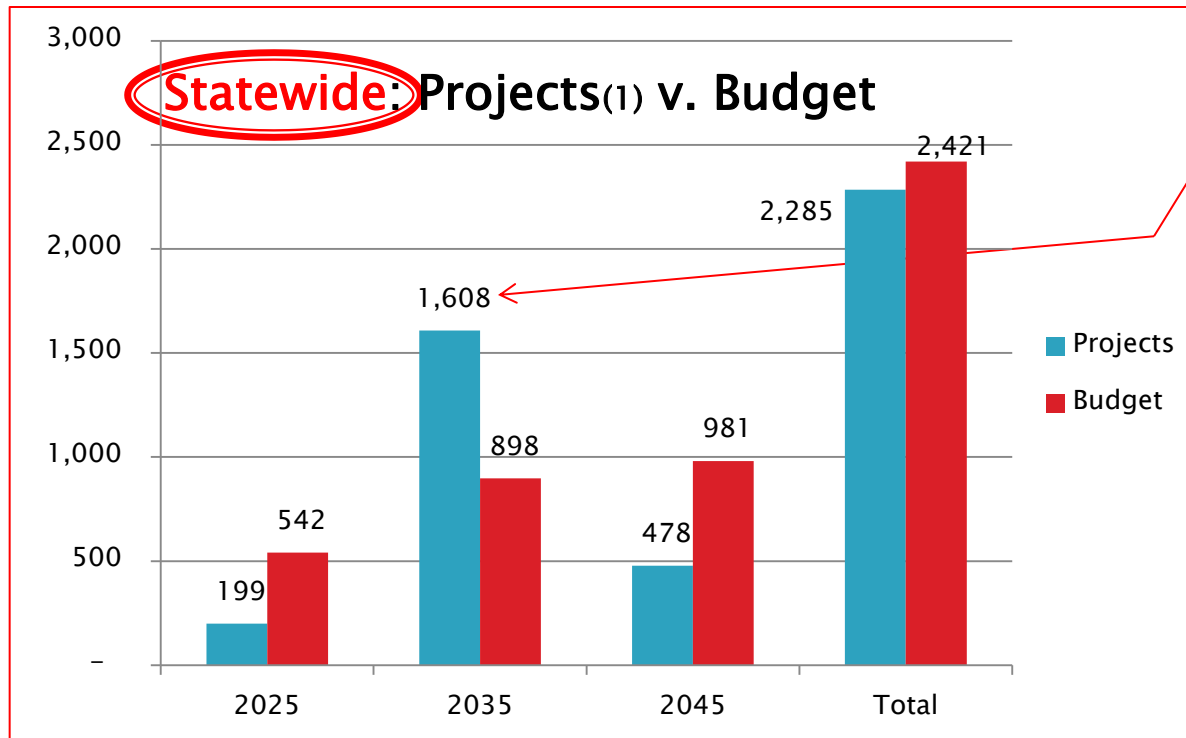
www.bit.ly/DCHC-MTP-Alternatives

MPO Board
September 13, 2017

What are these charts?

- We don't know the costs for the 2045 MTP, yet. But, do we know what kind of shape we are in? Do we have to start working on a scenario that eliminates a lot of projects?
- The four charts in this presentation show estimated **costs** for a scenario that implements the existing 2040 MTP and the FY 18–27 STIP, and compares them to the projected **revenues**
- Note that the charts break out the financial information by the three horizon years (2025, 2035 and 2045), and by the SPOT funding categories (statewide, regional and division).

Very Preliminary Cost/Revenue Comparison

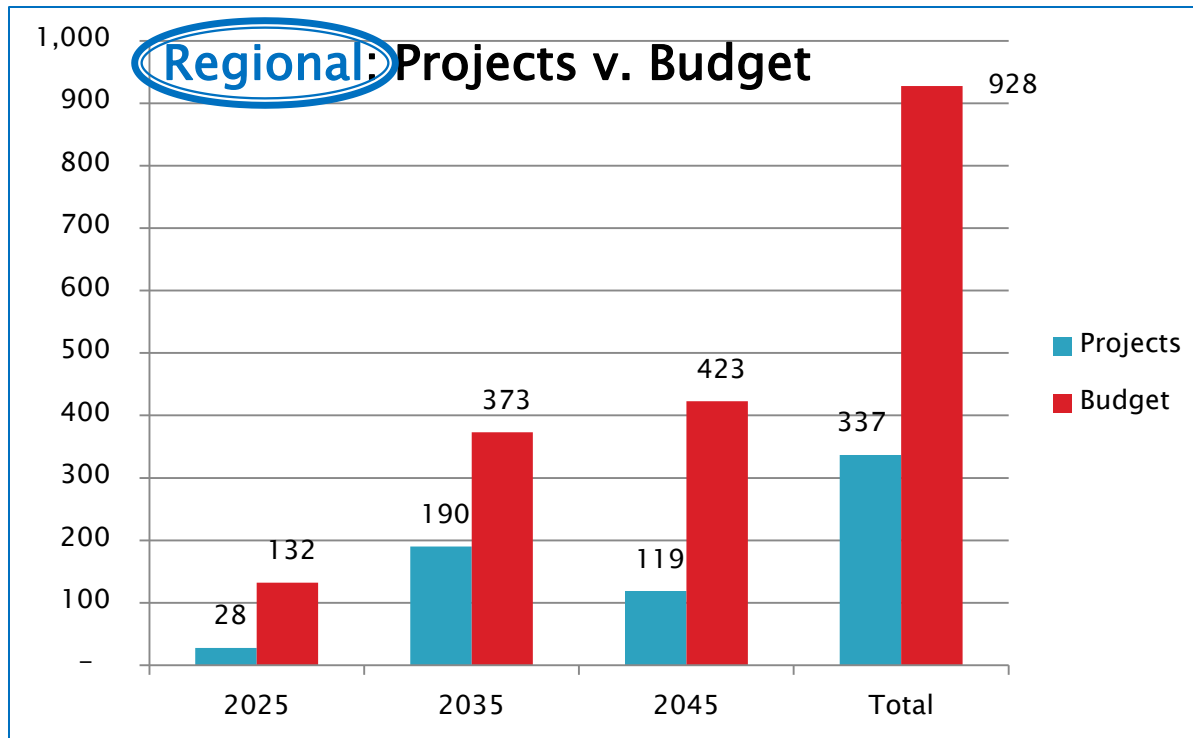


Year 2035 Includes improvements to: I-40 (Orange Co.), I-40 managed lanes*, NC 147, Fordham Blvd, US 70, some I-85, and many interchanges.

(1) Projects are costs to implement 2040 MTP and draft 18-27 STIP. One lump sum in year that project is completed.

* I-40 managed lanes use STIP cost estimate (~\$700m). MPO will likely use feasibility study estimate, which is lower.

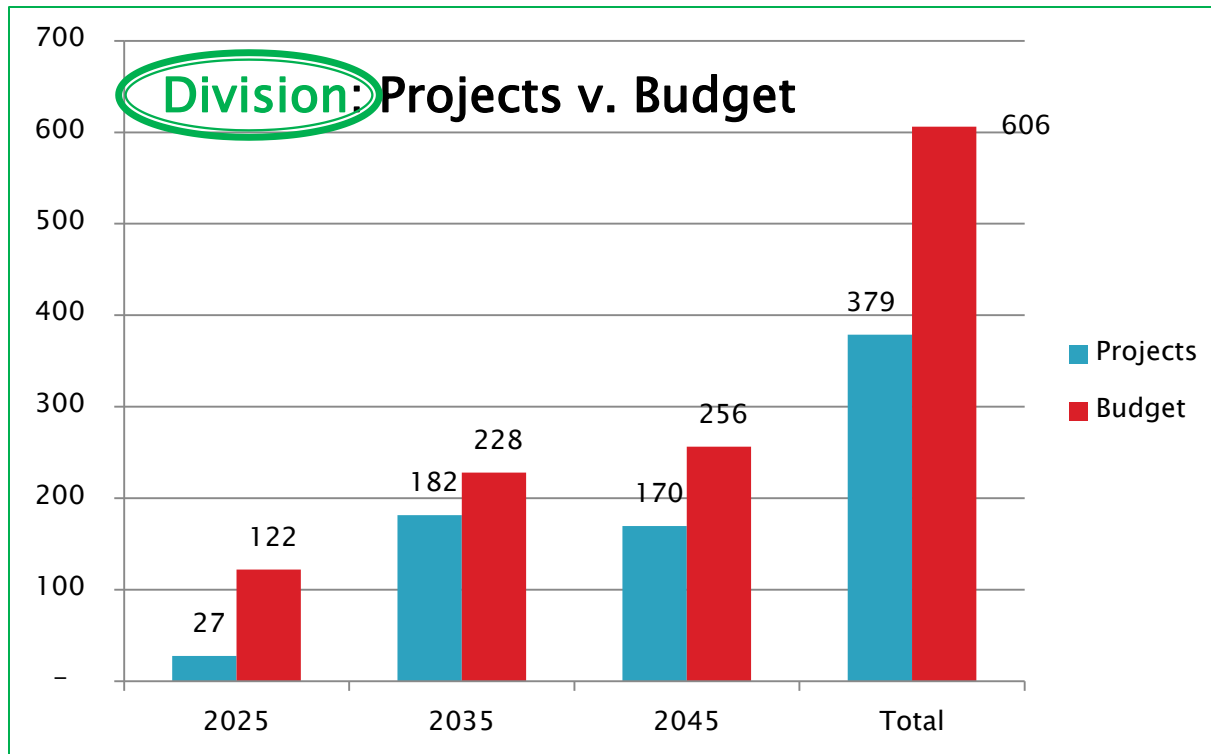
Very Preliminary Cost/Revenue Comparison



There will be additional costs for transit match (~\$191m), TSM (intersections) and ITS.

* There is 10% transit and non-highway cap; and 4% non-highway minimum.

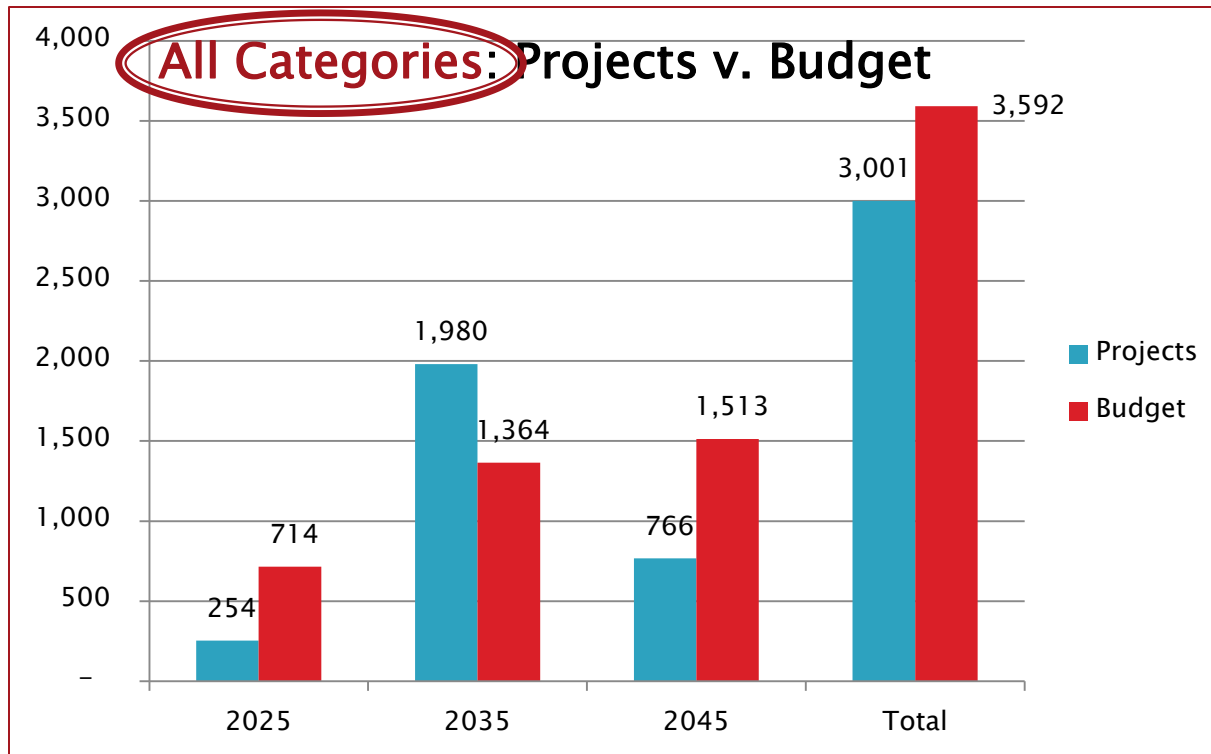
Very Preliminary Cost/Revenue Comparison



- Additional costs for TDM, TSM (intersections), bicycle and pedestrian, and transit match.
- Additional revenues from local government and private sources.

- There is 10% non-highway cap (statewide); and 2% non-highway minimum (division and statewide).

Very Preliminary Cost/Revenue Comparison



Conclusion: the MPO should be able to release a Preferred Option that is similar in scale to the current 2040 MTP.

Project Web site: www.bit.ly/DCHC-MTP**MTP Local Input (September-October 2017)**

Organization/Date	Location	Participation
MPO		
MPO Board September 13 (Wed), 9am	Committee Room (Durham City Hall) 101 City Hall Plaza, Durham, NC	<u>Public Hearing</u> : citizens can directly address the Board
MPO Board 2 nd Wednesday of each month, 9am	Committee Room (Durham City Hall) 101 City Hall Plaza, Durham, NC	Board will address 2045 MTP at monthly meetings from September through December. Board typically allows citizens to address the Board
Durham County		
Durham City Council September 21 (Thu), 1pm	Committee Room (Durham City Hall) 101 City Hall Plaza, Durham, NC	Presentation to City Council. Council typically allows citizens to address them on work session agenda items
Durham Board of County Commissioners October 2 (Mon), 9am	Durham County Courthouse 200 E. Main St.	Presentation to BOCC, who typically allow citizens to address them on work session agenda items
Bicycle and Pedestrian Advisory Commission (to be determined)	Committee Room (Durham City Hall)	BPAC usually provides detailed comments on long-range plans
Planning Commission October 10 (Tue), 5:30pm	Council Chambers (Durham City Hall) 101 City Hall Plaza, Durham, NC	Planning Commission usually receives presentation but does not submit official comments
Durham Station Transportation Center August 29 (Tue), 4-7pm	515 Pettigrew St., Downtown Durham, NC 27701	Drop-in workshop for citizens
Orange County		
Orange BOCC October 3 (Tue), 7PM	Richard Whitted Meeting Facility 300 West Tryon Street Hillsborough, NC 27278	Presentation at Orange BOCC, who typically allow citizens to address them on the agenda item
OUTBoard September 20, 6:30PM	Orange County West Campus Office Building, Conference Room 004 (Lower Floor) 131 West Margaret Ln, Hillsborough	Presentation to OUTBoard
Orange County Workshop September 12, 5:30-7:30pm	Orange County Office Building 131 W Margaret Ln Lower Level Conference Room, #004 Hillsborough, NC 27278	Citizens are encouraged to drop-in to discuss the MTP and provide comments
Chapel Hill Town Council		October presentation related to MTP's Preferred Option
Carrboro Bd of Aldermen September 19 (Tue), 7:30pm	Carrboro Town Hall 301 W. Main St., Carrboro, NC 27510	Presentation at Town Board, who typically allow citizens to address them on the agenda items
Chapel Hill and Carrboro Workshop September 19 (Tue), 4-6:30pm	Carrboro Town Hall 301 W. Main St., Carrboro, NC 27510	Citizens are encouraged to participate in drop-in session before the Board of Aldermen meeting; includes 5pm presentation

Last updated 09/05/17

Project Web site: www.bit.ly/DCHC-MTP

Organization/Date	Location	Participation
Hillsborough Town Board	Whitted Human Services Center 300 West Tryon Street Hillsborough, NC 27278	Planning Director will update the Town Board
Chatham County		
Chatham BOCC September 18 (Mon), 1pm	Historic Courthouse Park at Chatham County offices 80 East St, Pittsboro, NC 27312	Presentation at Chatham BOCC work session, who typically allow citizens to address them on the agenda item
Chatham workshop September 13, 4-7pm	Chatham Community Library Holmes Meeting Room 197 NC 87, Pittsboro, NC 27312	Drop-in workshop for citizens

Contact: Andy Henry, DCHC MPO, 919-560-4366 ext. 36419, andrew.henry@durhamnc.gov

DCHC MPO

2045 MTP Alternatives Analysis Comments (as of 09/06/17)

Introduction

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO) released the 2045 Metropolitan Transportation Plan (MTP) for public comment on August 9, 2017. The public comment period will close on September 20, 2017. This document compiles the public comments that the MPO has received on the MTP by email and use of the public comment form as of September 6, 2017.

For comments, questions and additional information:

- Andy Henry, andrew.henry@durhamnc.gov, 919-599-9405 ext. 36419.
- DCHC MPO Web site: www.dchcmpo.org
- MTP Web page: www.bit.ly/DCHC-MTP

Comments by Email

08/25/17

A sidewalk for South Greensboro Street in Carrboro is long overdue. This is a main thoroughfare that is in need of pedestrian access.

Allen Stutts

08/25/17

Hello, I do not see it explicitly in your list, but I strongly oppose the light rail project. Too expensive, and the numbers are not believable as far as ridership and costs. Please stop this program if you are in a position to do so.

Overall, having lived in Chapel Hill until 2010, I can tell you that Durham is way ahead of them in terms of sidewalks, bike lanes and traffic improvement. Keep up the good work!

Regards,
John M. Kramer PE

08/25/17

I support these goals and objectives. My only comment is that I want to reiterate that Durham has generally not done nearly enough to provide adequate multimodal transportation infrastructure. ALL new roadway construction must require - where feasible - separated bicycle facilities either on-street or adjacent. Let's be honest, sharrows don't really do anything and people just don't feel comfortable in bike lanes that don't have any barriers between them and 2-ton metal vehicles moving at 45 mph.

Thank you Andrew!

Nate

City of Durham resident

08/25/17

We need fast commuter rail from Durham to Raleigh five days a week. That is the most crucial component of any transportation plan. With the growing population, I-40 cannot handle the burden of so many daily commuters. Please consider the importance of fast commuter rail! r. n. ferguson

Thank you for driving slowly on neighborhood streets.

(summary of staff response: commuter rail likely to be in 2045 MTP)

08/30/17 (citizen response to staff response)

2045??????????? That's TWENTY-EIGHT YEARS FROM NOW!!!!

No, we need a fast commuter train to Raleigh from Durham NOW. It's top priority. We cannot continue to pave over paradise, making the ground impermeable, and forcing more and more vehicles onto a wider and wider I-40. Look, New York has long had commuter trains. Japan. They are all over England. WHY is it so impossible to have ONE train to Raleigh here in the Triangle, NOT in TWENTY-EIGHT years, but NOW. It's overdue as it is, since we were promised it in 2013.

(summary of staff response: commuter rail likely to be in 2035 time horizon in final Plan)

08/31/17 (citizen response to staff response)

2035??????????? That's eighteen years from now!!!!!!!!!!!!!!

No, we need the fast commuter train to Raleigh NOW.

Comments from Comment Form

Concerned that lack of parking will limit growth in downtown. Developers, City and County build parking only for their particular building or use without coordinating with other businesses in the corridor or area.

I support a build all approach and I'm all for increased taxes and tolls to pay for everything. To me, transportation infrastructure of all modes is one of the highest priorities of the government. When you have great transportation infrastructure, it promotes a healthy economy, growth, and a great quality of life.

If I have to prioritize then this is my preferred order: 1) Build/widen interstates, promote HOT lanes. 2) Build mass transit, priority given to trains/high density

Of the highways that need widening, HOT lanes, the Durham Freeway (downtown to I-40) is the #1 priority.

For trains, Durham to Raleigh is #1 priority.

Proposed Highway Project Submittals for SPOT 5.0

Submitted By	Category	Route / Facility Name	From / Cross Street	To / Cross Street	Description
Carrboro	Division Needs	Old NC 86	Homestead Road	Old Fayetteville Road	Upgrade roadway corridor and intersection to improve safety of all users. Construct two-lane improvements on Old NC 86 with left turn lanes at appropriate locations, such as John's Woods Road, and on-road bicycle facilities--paved shoulders and bicycle lane markings; design of roadway and facilities may vary along the corridor. Improve intersection at Calvander (Old NC 86/Homestead/Dairyland (SR 1004/1113/1777)) for all modes: increase capacity for vehicles and provide bicycle and pedestrian facilities to improve safety.
Chapel Hill	Division Needs	Elliott Rd	US 15/501 (Fordham Boulevard)	Ephesus Church Road	Construct extension of existing roadway (Elliott Rd) on new location between Ephesus Church Rd and US 15/501. The primary benefit of the new segment of road is to alleviate traffic at the intersection of US 15/50 & Ephesus Church Road, as well as congestion on US 15/501 between Ephesus Church and Elliott.
Chatham County	Regional Impact	NC 751	O'Kelly Chapel Road	Lewter Shop Road	Widen to 4 Lanes with Bicycle accommodations on Existing Location.
Chatham County	Division Needs	O'Kelly Chapel Rd	NC 751	Yates Store Road	Widen to 4 lane and bicycle accommodations on existing location.
Chatham County/Durham County	Division Needs	Farrington Point/Old Farrington Rd	Farrington Road	Jack Bennett/Lystra Road	Modernize roadway.
Durham	Statewide Mobility	NC 147	Elba Street/ Trent Drive		Construct roundabout at the intersection of Elba St., Trent Dr., and NC 147 ramps.
Durham	Statewide Mobility	US 15/501 Bypass	NC 147	Hillsborough Road	Signalize collector-distributor ramp intersections to improve safety.
Durham	Regional Impact	NC 751	NC 54	Southpoint Auto Park Boulevard	Widen roadway to four lanes with a median with bicycle, pedestrian and transit facilities as appropriate.
Durham	Regional Impact	NC 751 (Hope Valley Road)	South Roxboro Road	Woodcroft Parkway	Widen NC 751 (S. Roxboro Rd to NC 54) to four lanes with bike lanes and sidewalks. This project includes the realignment of the NC 751 & South Roxboro Road intersection.
Durham	Regional Impact	NC 98	Junction Road	Lynn Road	Safety improvements, access management, widen to add median, bicycle lanes, sidewalks, transit stop improvements, traffic signals where needed.
Durham	Regional Impact	Roxboro	Avondale Drive	Old Oxford Road	Construct turn lanes at Lavender, Bon Air, and Murray. Pedestrian and streetscape improvements.
Durham	Regional Impact	Roxboro Road	Duke Street	Omega Road	Construct median, access management, and safety improvements, bicycle and pedestrian facilities, transit stop improvements.
Durham	Regional Impact	Roxboro Street	Pettigrew Street	Main Street	Widen Roxboro St and rebuild NC Railroad bridge. Ramseur St may be reconstructed at grade.
Durham	Regional Impact	US 501 Business (Roxboro Rd.)	Horton Road		Construct turn lanes at Horton Rd.
Durham	Regional Impact	Morgan, Great Jones, Ramseur, and Liberty Streets	Roxboro Street	Roxboro Street	Convert the Downtown Loop and Liberty Street to two-way traffic. Project includes realigning portions of the Loop, traffic signals, bicycle facilities, sidewalks, signage.
Durham	Division Needs	Garrett Road	NC 751	Old Chapel Hill Road	Upgrade roadway corridor, increase capacity, bicycle and pedestrian facilities, transit stop improvements.
Durham	Division Needs	Hillandale Rd.	Horton Road		Construct roundabout
Durham	Division Needs	Hopson Road	Distribution Drive	NC 54	Widen roadway to a four lane divided roadway with bicycle and pedestrian facilities.
Durham	Division Needs	Northern Durham Parkway	Old Oxford Road	I-85	Construct multi-lane roadway on new location.

Durham	Division Needs	Northern Durham Parkway	US 70	NC 98	Construct multi-lane roadway on new location.
Durham	Division Needs	Riddle Rd.	Alston Avenue		Construct roundabout
Hillsborough	Regional Impact	NC 86	US 70 Bypass	North of NC 57	Widen roadway to four lanes with a median and improve intersections at US 70 Bypass and NC 57. Incorporate pedestrian crossing at intersection on NC 57 and NC 86.
Hillsborough	Division Needs	Orange Grove Road	Eno Mountain Road	Mayo Street	Construct new section of Mayo Street to align with Eno Mountain Road and install signal.
Orange County	Regional Impact	US 70 Connector	US 70		Reconstruct interchange to allow for an at-grade intersection permitting all turning movements, i.e. allowing left turns from the US 70 Connector northbound onto US 70 and right turns from US 70 eastbound onto the US 70 Connector (these movements currently not allowed). Remove/abandon structurally deficient bridge. The improvement to the I-85/US 70 Connector, US 70 interchange area will create a better alternative for truck and automobile traffic that currently use SR-1004/Efland-Cedar Grove Road, Forest Ave, Mt. Willing Road to travel to I-40/I-85. This project will also support economic development on parcels to the west of the US 70 Connector.

Highway Projects Not Recommended for Submittal for SPOT 5.0

Submitted By	Category	Route / Facility Name	From / Cross Street	To / Cross Street	Description	Notes
Chapel Hill	Division Needs	Legion Road Extension	Legion Rd	Fordham Blvd	Construct extension of existing roadway between Legion Road and US 15-501. Project shall include bicycle and pedestrian facilities.	Not projected to score well.
Chatham County	Division Needs	Jack Bennett/Lystra Roads	US 15/501	Farrington Mill/Farrington Point Roads	Modernization	Not projected to score well.
Durham	Division Needs	Globe Road	Miami Blvd	Page Road	Construct new location roadway	Not projected to score well. Very expensive.
Durham	Division Needs	Leesville Road	Leesville Road	Page Road Extension	Construct new location roadway	Not projected to score well. Could it be included within scope of US 70 project?
Durham	Division Needs	Roxboro St	Cornwallis Rd	MLK Pkwy	Construct new location roadway	Not projected to score well.
Durham	Division Needs	Gregson St., Vickers Ave., and Duke St.	US 15/501 Business (Lakewood Ave.)	I-85	Convert Gregson St./Vickers Ave. and Duke St. to two-way traffic. Include traffic signals, bicycle facilities, and sidewalks.	Not supported by Division without further study.
Durham	Regional Impact	NC 55	Cecil St.	Lawson St.	Add median and turn lanes with bicycle, pedestrian, and transit facilities as appropriate.	Project may not be necessary since there are turn lanes at Lawson and Cecil Streets. Potential negative impacts to houses on NC 55.
Durham	Regional Impact	US 15/501 Business (Durham-Chapel Hill Blvd.)	Nation Ave.	University Dr.	Construct roundabouts at Legion, Hope Valley, Midvale, and James. Access management, driveway consolidation or closures, median, protected bicycle facilities, sidewalks, transit stop improvements, safety improvements.	US 15/501 Corridor Study to provide guidance.
Durham	Regional Impact	US 15/501 Business (Roxboro and Mangum Streets)	US 15/501 Business (Lakewood Ave.)	Markham Ave.	Convert Roxboro St. and Mangum St. to two-way traffic. Includes traffic signals, bicycle facilities, and sidewalks.	Not supported by Division without further study.
Orange County	Division Needs	Orange Grove Road	New Grady Brown School Road	Patriot's Pointe Drive	This project would be to construct one additional lane between Patriot's Pointe Drive and New Grady Brown School Road. This project would include both pedestrian and bicycle improvements along the roadway. The I-40 bridge would be widened to accommodate both pedestrian and bicycle amenities and one additional travel lane.	Not in MTP or CTP.

Proposed Bike/Ped Project Submittals for SPOT 5.0

Submitted by	Route / Facility Name	From / Cross Street	To / Cross Street	Description
Carrboro	NC 54	James Street	Anderson Park	Construct sidepath on the north side of the road to accommodate two-direction bicycle transportation.
Carrboro	Old NC 86 - Hillsborough Road	Homestead Road	Farm House Road	Construct bicycle lanes on both sides of roadway
Carrboro	Seawell School Road	Estes Drive Extension	Homestead Road	Construct bicycle lanes where they do not currently exist on both sides of roadway
Chapel Hill	Martin Luther King Jr. Blvd.	Estes Drive	Homestead Rd	Bike lane addition and sidewalk upgrade.
Chapel Hill	Partial Campus to Campus Connector/ Tanyard Branch extension	Broad Street	Village Dr. & Tanyard Branch Greenway	Off-road multi-use path
Chapel Hill	Fordham Boulevard Bridge*	Legion Road Extension (future)		Construct a bike/ped bridge over Fordham Boulevard from the future Legion Road extension to the green space between Days Inn and Village Plaza.
Chapel Hill	US 15/501 (Fordham Blvd)	Willow Drive	Old Durham Chapel Hill Road	Construct multi-use side paths paralleling US 15/501 (Fordham Blvd), both sides from Willow Drive to Ephesus Church Road and just the east side from Ephesus Church Road to Old Durham Chapel Hill Road. Construct enhanced pedestrian and bicyclist crossing accommodations at intersections and crossing locations.
Chatham County	American Tobacco Trail	O'Kelly Chapel Road		Construct pedestrian and bicycle crossing (tunnel) improvements at the American Tobacco Trail (multi-use trail) crossing of O'Kelly Chapel Road.
Durham	Academy	Duke University Rd	Cornwallis Rd	Construct bicycle and Pedestrian Facilities
Durham	Club Blvd	Broad St	Washington Street/Ellerbe Creek Trail	Construct protected bicycle lanes on both sides of the street, install pedestrian hybrid signal at Watts and Club
Durham	Cook Rd	American Tobacco Trail	Martin Luther king Jr Parkway	Connect the American Tobacco Trail (through Hillside High School) to MLK Jr Parkway with buffered bike lanes and sidewalks on both sides of the road
Durham	Durham-Chapel Hill Boulevard	Nation Ave.	University Dr.	Sidewalks, improve bike lanes
Durham	Hardee St	NC 98 (Holloway St)	Cheek Road	Construct Sidewalks and Bike Lanes.
Durham	Holloway Street	Ganyard Farm Way	US-70 Bypass	Construct sidewalk on both sides of the road and intersection improvements.
Durham	Horton Road	Guess Rd.	N. Roxboro Rd	Construct multi-use path <u>or</u> Construct Bicycle and Pedestrian Facilities
Durham	Miami Boulevard	Ellis Rd	Cornwallis Rd	Construct multi-use path along east side of roadway.
Durham	NC 54	RTP Trail	American Tobacco Trail	Construct shared use path along east side of roadway and intersection improvements/sidewalk connections to transit stops on both sides of the road.
Durham	NC 55	American Tobacco Trail	Cornwallis Rd	Construct shared use path on one side of roadway and make intersection improvements.
Durham	Sandy Creek Trail	Sandy Creek Trail	Cornwallis Rd. at Al Buehler Trail	Construct a shared use trail
Durham	Tunnel	Ramseur Street	American Tobacco Trail	Construct tunnel underneath NCRR railbed.
Durham	University Dr	Garrett Rd	MLK Parkway	Construct shared use path
Durham	US 501 (N. Roxboro Rd.)	Fairfield Road	Milton Road	Construct shared use path on one side of the street, sidewalk connections to transit on both sides, and intersection improvements.
Durham	Warren Creek Trail Phase II	Mountains-to-Sea Trail	Warren Creek Trail	Construct a shared use trail and sidewalks connecting the Rocky Creek Trail, the American Tobacco Trail, and the Hayti Heritage Center

Bike/Ped Projects For Division Submittal or Not Recommended for Submittal

Submitted By	Route / Facility Name	From / Cross Street	To / Cross Street	Description	Notes
Chapel Hill	Finley Golf Course Road	US 15-501/NC 54	NC 54	Construct sidepath on one side or bicycle lanes.	Division 7 will submit.
Chapel Hill	Mt. Carmel Church Road	US 15-501	Bennett Road	Mult-use path one side	Division 7 will submit.
Chapel Hill	Pope Road/Ephesus Church Road	Old Durham-Chapel Hill Rd	Fordham Blvd	Construct sidewalks and bicycle lanes, completing gaps where necessary.	Chapel Hill portion of project funded through bond program.
Chatham County	O'Kelly Chapel Rd Side St Trail	American Tobacco Trail	Green Level Church Road	Construct 10' wide Streetside trail along O'Kelly Chapel Rd between existing trail at Green Level Church Rd and American Tobacco Trail	Removed at request of Town of Cary.
Chatham County	Pittard Sears	O'Kelly Chapel Rd	Trailhead at American Tobacco Trail	Construct sidewalk along western side of Pittard Sears Rd between O'Kelly Chapel Rd and trailhead	Removed at request of Town of Cary.
Durham	Alston Ave. and NC 54	Cornwallis Rd.	NC 54 RTP Trail	Bike lanes, sidewalk	Not projected to score well.
Durham	Club	Ambridge St	Dearborn Dr	Construct Bicycle and Pedestrian Facilities	Not projected to score well.
Durham	Cornwallis Road	American Tobacco Trail	NC 55	Construct sidewalk on one side of the road and intersection improvements/sidewalk connections to transit stops on both sides of the road.	Not projected to score well.
Durham	Erwin Road	NC 751 at Al Buehler Trail	Sage Rd.	Buffered bike lanes	Interjurisdictional project. Not clear who would manage. Potential project for TAP-DA funds.
Durham	NC 55	NC 54	Carpenter Fletcher Rd	Construct sidewalk on one side of the road and intersection improvements/sidewalk connections to transit stops on both sides of the road.	Request submission by Division 5
Durham	Old Durham-Chapel Hill Road Bridge over I-40			Add bicycle and pedestrian facilities to an existing bridge.	Request submission by Division 5
Durham	Rose of Sharon/Hillandale	Guess Rd.	Horton Rd.	Sidewalks	Not projected to score well.
Durham	Stadium/Olympic/Roxboro/ Old Oxford	Ellerbe Creek Trail	Hebron Road	Bike lanes, side path combination	

Durham	University Dr.	Woodridge	West Forest Hills	Sidewalks, improve bike lanes	Not in Durham Bike + Walk Plan. Request submission by Division 5.
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Proposed Transit Project Submittals for SPOT 5.0

Submitted by	Category	Route / Facility Name	Description
Chapel Hill	Division Needs	Bus Rapid Transit (BRT) system along Martin Luther King, Jr Blvd and 15/501 South	Chapel Hill Transit North South Corridor BRT Project (formerly Alternatives Analysis) - Bus Rapid Transit along Martin Luther King Jr. Blvd and South Columbia Streets, between Eubanks Park-and-Ride and Southern Village.
Chapel Hill	Division Needs	Chapel Hill Transit Chapel Hill FY19 F Route CW Route J Route G Route Expansion Vehicles	Add peak hour service on buses to the existing CW route (Carrboro, Jones Ferry Park and Ride and Weaver ST). The project will also include additional peak hour service for 1 year on route F (Colony Woods, Franklin St and McDougle School).
Chapel Hill	Division Needs	Chapel Hill Transit FY17 CL&D RouteVeh2Expansion	Expand CL&D route and service hours. Extend service from Chapel Hill to connect with DATA and Triangle Transit at New Hope Commons. This will introduce four (4) revenue vehicles.
Chapel Hill	Division Needs	Chapel Hill Transit FY18 54 CorridorVehicle2Expansion	Extend local bus service from Friday Center to serve demand in 54 corridor to I-40 or beyond by adding four (4) revenue vehicles.
Chapel Hill	Division Needs	Chapel Hill Transit FY20 MLK CorridorVeh2Expansion	Four additional buses (4) will be introduced along the Martin Luther King Jr. - South Columbia - 15/501 corridor (T Route, NU Route, A Route, NS Route). Improvements will include headway reduction and amenity improvements along the corridor.
Durham	Regional Impact	New Durham/Garner Commuter Rail line	Proposed 37-mile alignment from West Durham to Greenfield Parkway in Garner via Durham, the Research Triangle Park, Morrisville, Cary, Raleigh, and Garner (12 stations total with downtown connections).
GoTriangle	Regional Impact	Durham-Orange Light-Rail Transit Project (D-O LRT)	UNC Hospitals in Chapel Hill to North Carolina Central University in Durham. Construct light rail system
GoTriangle	Regional Impact	GoTriangle Expansion Vehicles FY19	4 vehicles to support bus service expansion
GoTriangle	Regional Impact	GoTriangle Expansion Vehicles FY21	2 vehicles to support bus service expansion
GoTriangle	Regional Impact	GoTriangle Expansion Vehicle FY23	1 vehicle to support bus service expansion
GoTriangle	Regional Impact	GoTriangle Expansion Vehicle FY24	1 vehicle to support bus service expansion
GoTriangle	Regional Impact	GoTriangle Rougemont Park & Ride	Construct Rougemont Park and Ride
GoTriangle	Division Needs	Fayetteville St Transit Corridor Improvements	Fayetteville St Transit Corridor; Transit Corridor improvements (access and stop improvements, bus shelters) GoDurham 5, 5K

GoTriangle	Division Needs	GoDurham AVL/Real-Time System Replacement	Replacement and/or Reconfiguration of current Automated Vehicle Location (AVL) software, including additional features for more efficient safety/security, vehicle health, and incident management.
GoTriangle	Division Needs	GoDurham Expansion Vehicle FY21	1 vehicle to support bus service expansion
GoTriangle	Division Needs	GoDurham Expansion Vehicle FY22	1 vehicle to support bus service expansion
GoTriangle	Division Needs	GoDurham Expansion Vehicle FY23	1 vehicle to support bus service expansion
GoTriangle	Division Needs	GoDurham Expansion Vehicle FY24	1 vehicle to support bus service expansion
GoTriangle	Division Needs	GoDurham Operations and Maintenance Facility	Build a new garage facility to accommodate additional vehicles due to expanded bus service and maintain or replace existing facility after end of useful life
GoTriangle	Division Needs	Village Neighborhood Transit Center	Design and Construction of NTC: Village Neighborhood Transit Center. GoDurham 2B, 3, 16, 16A, 16B.
Orange County	Division Needs	Orange County Public Transportation Circulator II	Purchase one transit vehicle to begin the Hillsborough Circulator II route in Hillsborough

Proposed Rail Project Submittals for SPOT 5.0

Submitted by	Category	Route / Facility Name	Description	Notes
Durham	Statewide Mobility	NS H	Triple track bridge over I-40	Rail Division and Railroads do not support project.
Durham	Statewide Mobility	NS H	Construct grade separation at Neal Rd.	
Durham	Statewide Mobility	NS H	Construct double track from West of the rail yard at Funston to East Durham yard.	Rail Division and Railroads do not support project.
Durham	Statewide Mobility	NS H	Construct double track from Alexander Drive to Nelson.	Rail Division and Railroads do not support project.
Durham	Statewide Mobility	NS H	Construct improved at grade crossings at Duke Street, Blackwell St, Mangum St, Dillard St, Fayetteville St, and Grant St in Durham. Improvements may include traffic signal and crossing protection device upgrades, and/or installation of new traffic signals and crossing protection devices at intersections adjacent to the crossings to incorporate additional crossing protection devices.	
Hillsborough	Division Needs	NS H	Improve the current trestle at Exchange Park Lane to accommodate pedestrian traffic to support a pedestrian link from the proposed Hillsborough Train Station to downtown Hillsborough.	
NCDOT Rail	Statewide Mobility	NCRR/NS	University Station mainline realignment, straighten out curves in the line in the University Station area.	
NCDOT Rail	Statewide Mobility	NCRR/NS	Curve realignments from west of Hillsborough to Efland.	
NCDOT Rail	Division Needs	NCRR	Add to existing platform at Durham Station and construct center island.	
Orange County	Statewide Mobility	NS H	Improve current Dimmocks Mill Rd grade separation and close Bellvue St	

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 INDURHAM 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

Ah, that new bus smell. GoDurham unveils fleet additions

The Herald-Sun By Joe Johnson August 24, 2017

Ah, that new bus smell.

City bus riders in Durham will soon be able to enjoy the freshness of a new ride as GoDurham sends 12 new buses into service.

Workers put the finishing touches on the 40-foot-long buses earlier this week. They were manufactured by Gillig at a plant in California. Six will replace old buses, some in use since 2003, and six were purchased with proceeds from the local transit-designated half-cent sales tax.

"These new vehicles will help us better serve our customers and make our service even more reliable," GoDurham transit administrator Brian Fahey said in a news release. "Our oldest vehicles are 14 years old, and as we retire them, our maintenance team can spend less time on major repairs meant to extend the life of older vehicles and focus on other initiatives to improve the safety and comfort of the fleet."

More new vehicles are coming. GoDurham ACCESS has ordered five light-transit vehicles to provide paratransit trips to those unable to use fixed-route services for medical reasons.

GoDurham provided nearly 7 million rides over 24 routes last year.

New turnpike tech dropping prices of NC Quick Pass transponders

Triangle Business Journal By Lauren K. Ohnesorge August 22, 2017

The North Carolina Turnpike Authority is lowering the prices of the NC Quick Pass transponders used on toll roads after switching to a new system that aims to work with all units from across the country.

Currently, the transponders are only compatible with certain networks. The North Carolina Quick Pass transponders, for example, work in Florida and Georgia; the E-ZPass transponders work in 18 states. But the feds are considering ways to have every toll road in the U.S. on the same system. And North Carolina's new technology aims to be the first to do that – while passing along cost savings.

"This is something that's never been done before," says Beau Memory, executive director of the NCTA. "We'll be the first state in the nation to read all of the transponder protocol that are being considered for national interoperability."

Memory says, starting Aug. 30, the NC Quick Pass transponder will be free – formerly \$5. And the NC Quick Pass E-ZPass transponders will drop from \$20 to \$7.40.

Read: [Why a new 540 interchange is a big deal in the Triangle](#)

That's because the Turnpike is implementing new interoperable technology that comes at a lower cost. "We're simply passing the savings on," Memory explains.

More interesting than the price, however, is what the new transponders will be able to do in the coming years.

"For us, what that means is, no matter what technology emerges from that process ... we're already ready for it and we can do it," he says.

The new system cost the state about \$1.4 million to retrofit and implement.

As with transponders currently on the highways, the passes save customers 35 percent on their tolls over the pay-by-mail method.

And it's not the only new program for local toll road Triangle Expressway. Earlier this year, [the U.S. Department of Transportation named it one of 10 locations that will soon pilot research for autonomous vehicles](#).

Memory says he hopes to have more clarity on what that will mean for the state this fall.

The Diverging Diamond Interchange Is Coming to a Road Near You

CityLab.com By Laura Bliss August 21, 2017 <http://bit.ly/2iMKpXg>

The brainchild of an [engineering graduate student in the early 2000s](#), diverging diamond interchanges, or DDIs, work rather ingeniously. Rather make drivers turn at a right angle to merge onto a highway, the two directions of traffic diverge and ribbon over one another. One lane peels off to funnel cars onto the highway, and they never have to turn against traffic.

In the past two weeks alone, Florida opened all 12 lanes of the [nation's largest DDI near Sarasota](#). Near Pittsburgh, a brand new DNA-shaped interchange is [confusing some Pennsylvania drivers and delighting others](#). Southeast Calgary opened another one this week, Saskatchewan [awaits](#) its own, there's news that Arizona and Virginia are considering proposals to build out more. Here's a [full list of nearly 90 U.S. locations](#) where they're planned or operational.

DDIs are proliferating because they're safer than a traditional four-way intersection. Where two, two-lane roadways intersect, drivers have 32 separate opportunities to collide into each other. In a DDI, there are only 14. The DDI in Springfield, Missouri—the first in the U.S.—[showed a 60 percent reduction in crashes](#) since it was installed in 2009, compared to the old design. They can also [be more cost-efficient](#) than traditional diamond interchanges.

Urbanists might grump that there's no such thing as a "good" highway onramp, but some DDIs come with [walking and biking paths alongside the twisting lanes](#) (separated, of course), with engineers applauding themselves for the freer flow of feet and bikes created. ("Cause if cars don't need to stop for traffic, neither do people.) And with traffic fatalities rising at alarming rates and funding to rebuild decaying roads getting tighter, the DDI seems like a positive trend for both drivers and DOTs. "Human beings, I know, hate change," Pennsylvania Governor Tom Wolf [said](#) on the occasion of his state's first. "But this really works."

RDU commences Vision2040 revamp

Triangle Business Journal By Lauren K. Ohnesorge August 17, 2017

Armed with a new \$16.6 million federal grant, Raleigh-Durham International Airport is executing on its Vision2040 project – at least on the airfield, where officials are about to start rehabilitating the General Aviation taxiway.

It's the first project from the Vision2040 plan to actually begin construction.

Read: [RDU airport CEO talks growth, growth, growth](#)

The plan, [passed in October](#), is intended to accommodate continued growth for the next two decades. It includes [ground transportation improvements](#) as well as a full replacement of the airport's sole international runway.

While the design priority continues to be finalizing plans to [replace the runway](#), the airport has expanded its scope to planning ahead for other aspects of the [RDU](#) revamp, including major parking additions to accommodate passenger growth.

According to [RDU](#) Airport Authority CEO Michael Landguth, 532,289 passengers departed RDU in the month of July, a 4.7 percent increase over the same time period last year. It was the 41 st consecutive month of year-over-year passenger increases. Landguth says that over the past five years, passenger traffic for July has increased 25 percent.

“We have approximately 100,000 more people per month compared to 2012,” he explains. “That is a staggering percent.”

And that means more traffic to and from the airport, which is why the Economy 3 lot, currently at 3,820 spaces, will increase to 9,653. Plans call for adding 1,600 spaces and relocating both Economy 4 and employee parking to the acreage.

In all, it's a 64-acre expansion – and the first project off the airfield to hit the preliminary design phase. Space vacated by Economy 4 and employee parking will accommodate future growth with General Aviation. Preliminary design work for the Economy 4 plan eclipses \$370,000 – with full plans to be presented to the board in June of next year. Once plans are outlined, environmental assessments can begin.

RS&H is the consultant for the designs.

[RDU's](#) larger plans also call for the possible lease of airport-owned land for development. The funds would help pay for the massive plan.

Read: [How much RDU's revamp will cost](#)

Currently, much of that acreage is used for bike trails – which is why many have spoken out against developing the land. Airport spokesman Andrew Sawyer says no timeline has been released for its decision on what, exactly, to do with the tract.

RDU also approved the purchase of four new electric buses to replace the oldest of its 14 diesel bus fleet for \$3.4 million; \$1.6 million of that sum is covered by a federal grant.

The buses will arrive in 21 months.