

September 24, 2014
9:00 a.m.

Committee Room
2nd Floor Durham City Hall

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

CONSENT AGENDA

4. **Approval of August 27, 2014 TC Meeting Minutes**
Attachment 4

A copy of the August 27, 2014 minutes is enclosed as Attachment 4.

TC Action: Approve minutes of the August 27, 2014 TC meeting.

ACTION ITEMS

5. **FY 2012-2018 TIP Amendment #21**
Attachment 5, 5A, 5B
Lindsay Smart, LPA Staff

Amendment #21 to the FY 2012-2018 Transportation Improvement Program is necessary to reflect STP-DA programmed projects in FY 2014 through 2016 and to match recent STIP Amendments. A memo describing the amendment is provided. A TIP resolution and a detailed table presenting the amendment information are also provided.

TC Action: Recommend the MPO Board approve Amendment #21 to the FY 2012-2018 Transportation Improvement Program

6. **Comprehensive Transportation Plan (CTP) Update**
Attachment 6
Andy Henry, LPA Staff
Julie Bollinger, NCDOT

The CTP subcommittee has been meeting most months to discuss and direct the development of the CTP. This presentation will provide an update and schedule for the CTP based on the subcommittee meetings.

TC Action: Receive presentation and recommend that the MPO Board receive the presentation.

7. NCDOT Feasibility and Environmental Studies

Attachment 7

Julie Bollinger, NCDOT

NCDOT staff will provide an update on feasibility and environmental studies for projects in the DCHC MPO.

TC Action: Receive presentation.

REPORTS FROM STAFF:

8. Reports from Staff

Attachment 8

Felix Nwoko, LPA Staff

TC Action: Receive report from staff

9. Report from the Chair

No attachment

Mark Ahrendsen, TCC Chair

TC Action: Receive report from TC Chair

10. NCDOT Report

Attachment 10

Wally Bowman (Joey Hopkins), Division 5 – NCDOT

Mike Mills (Pat Wilson), Division 7 – NCDOT

Rob Stone (Darius Sturdivant), Division 8 – NCDOT

Julie Bollinger, Transportation Planning Branch – NCDOT

Kelly Becker, Traffic Operations – NCDOT

TC Action: Receive report from NCDOT

INFORMATIONAL ITEMS:

11. None

Adjourn

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MEMORANDUM

To: DCHC MPO Technical Committee

From: DCHC MPO Lead Planning Agency

Date: September 24, 2014

Subject: **FY 2012-2018 TIP Amendment #21: STP-DA and Transportation Alternatives Program and City of Durham Funding Request for Four Bicycle/Pedestrian Corridors**

On August 13, 2014, the MPO Board adopted revisions to the MPO's policy for programming STP-DA and TAP funds. By adopting this policy, the MPO set budgets for project types and jurisdictions for FY 2015-2016. MPO staff requested that each local government provide a list of projects to program these funds.

As the end of the federal fiscal year 2014 draws near, MPO staff has requested that local jurisdictions provide a status report on their FY 2014 STP-DA projects. TIP Amendment #21 includes updates to DATA and Chapel Hill Transit STP-DA projects that were not included in previous TIP amendments. These updates include minor revisions to funding levels and reprogramming of funds from FY2014 to FY2015, as shown in the attached tables. In addition, TIP Amendment #21 includes one modification necessary to match a recent STIP amendment. The City of Durham projects included in TIP amendment #21 are detailed in the remainder of this memo.

The City of Durham is pursuing the development of four bicycle/pedestrian corridor projects: Cornwallis Road, Morreene Road, Hillandale Road, and Carpenter-Fletcher Road. These four projects have been proposed to be funded with a combination of STPDA, CMAQ, and local matching funds. The MPO funded a functional design for these four projects that has been used to develop more accurate estimated costs and project development schedules.

Unfortunately, the development of these four large projects is expected to take four years to proceed through the design, right-of-way, and construction phases. This does not correspond with the DCHC MPO's two-year STPDA call for projects. As a result, the City is requesting that the MPO approve allowing Durham to defer FY 2014-2016 STPDA funding that will not be able to be used within these funding years and combine this with an estimate of Durham's anticipated FY 2017-2018 and FY 2019-2020 STPDA funding. The City is also requesting a canceling two MPO approved CMAQ funded projects in order to combine these funds with the STPDA funds for one of the projects.

The City of Durham's Public Works Department anticipates the following schedule for the obligation of the funding by project phase:

- Design – January 2016
- Right-of-Way – January 2017
- Construction – September 2018

The estimated total cost for each project by phase is as follows. The federal reimbursement column displays the costs that are expected to be able to be reimbursed at an 80/20 federal/local share. Some of the project costs are not reimbursable and thus this is slightly less than 80% of the total project costs.

		Cornwallis	Hillandale	Morreene	Carpenter-Fletcher	Total	Federal Reimbursement
2016	Design	\$454,082	\$246,714	\$527,487	\$380,277	\$1,608,561	\$1,286,849
2017	Right-of-Way	\$0	\$32,782	\$6,993	\$27,318	\$67,093	\$53,675
2018	Construction	\$4,977,938	\$2,828,446	\$5,782,648	\$4,281,388	\$17,870,420	\$13,596,893
	Total	\$5,432,020	\$3,107,943	\$6,317,129	\$4,688,983	\$19,546,075	\$14,937,417

Durham has the following federal funding available or anticipated:

STPDA programmed in FY 2014 for design	\$1,577,000
Unprogrammed FY 2015-2016 Local Discretionary STPDA	\$3,567,259
Anticipated FY 2017-2018 Local Discretionary STPDA	\$4,240,329
Anticipated FY 2019-2020 Local Discretionary STPDA	\$4,240,329
CMAQ funding for Morreene Road	\$444,360
CMAQ funding for Hope Valley Road	\$1,108,542
CMAQ funding for Cameron Blvd.	\$777,924
Total federal funding available	\$15,955,743

The Local Discretionary funding for FY 2017-2018 and 2019-2020 presumes that the MPO’s adopted policy and the STPDA funding for the Durham urbanized area are unchanged. It is likely that Durham’s annual STPDA will increase. In addition, Morreene Road, Cornwallis Road, and Carpenter-Fletcher Road all qualify for the Regional Bicycle and Pedestrian category, and Durham anticipates requesting that these projects be considered for this competitive funding process for the FY 2017-2018 Call for Projects. It is possible that MPO Regional Bicycle and Pedestrian funding could also be used to fund these projects.

Durham is proposing to cancel two CMAQ projects selected for funding by the MPO:

- Sidewalks and bike lanes on Hope Valley Road from Martin Luther King Jr. Parkway to University Drive and
- Sidewalks on Cameron Blvd. from Erwin Road to Duke University Road.

Both of these projects were programmed by the MPO Board on August 11, 2010 during the FY 2013-2015 CMAQ Call for Projects. Duke University has proposed to build sidewalk on Cameron Blvd. and thus this project no longer needs to be built by the City. While a project on Hope Valley Road is still needed, staff and funding resources need to be diverted to the four projects. In order to simplify the CMAQ revisions, Durham is proposing to divert the CMAQ funds for these two projects to Morreene Road, which is already partially funded with CMAQ.

In the immediate future, the City plans to enter into a municipal agreement for the four projects for the design phase only, and then will later supplement that agreement for the right-of-way and construction phases as the project progresses. This is primarily due to the availability of the local match. As a result, it is not critical that the MPO program the right-of-way and construction phases at this time. However,

the City is requesting that the MPO program all of the funding in order to provide the MPO Board and the public an indication of the schedule for these projects and the commitment of funding. This will also allow the projects to move forward as expeditiously as possible without any delays due to needed MPO action. With the MPO's high unobligated STPDA balance, it is very unlikely that programming these projects would have any negative effect on any other project within the MPO. The City of Durham acknowledges that it is committing all of its STPDA funding for several years to come through this action.

Proposed funding schedule:

					FY 2016	FY 2017	FY 2018
Cornwallis Rd	U-4724	Sidewalks and bicycle facilities from Chapel Hill Rd to S. Roxboro Rd	Design	STPDA	\$363,266		
			Design	Local	\$90,816		
			Construction	STPDA			\$3,853,888
			Construction	Local			\$1,124,051
Morreene Rd	C-4928	Sidewalks and bicycle facilities from Erwin Rd to Neal Rd	Design	STPDA	\$421,990		
			Design	Local	\$105,497		
			R/W	STPDA		\$5,595	
			R/W	Local		\$1,399	
			Construction	STPDA			\$2,140,301
			Construction	CMAQ			\$2,330,826
			Construction	Local			\$1,311,522
Hillandale Rd	U-4726HK	Sidewalks and bicycle facilities from I-85 to NC 147	Design	STPDA	\$197,372		
			Design	Local	\$49,343		
			R/W	STPDA		\$26,225	
			R/W	Local		\$6,556	
			Construction	STPDA			\$2,066,903
			Construction	Local			\$761,543
Carpenter -Fletcher Rd	U-4726HO	Sidewalks and bicycle facilities from Woodcroft Pkwy to Alston Ave	Design	STPDA	\$304,221		
			Design	Local	\$76,055		
			R/W	STPDA		\$21,855	
			R/W	Local		\$5,464	
			Construction	STPDA			\$3,204,976
			Construction	Local			\$1,076,411

**RESOLUTION TO MODIFY THE 2012-2018 TRANSPORTATION
IMPROVEMENT PROGRAM FOR THE DURHAM-CHAPEL HILL-CARRBORO
METROPOLITAN PLANNING AREA**

**AMENDMENT #21
October 8, 2014**

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 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 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 2012-2018 Transportation Improvement Program as described in the attached sheets; and

WHEREAS, there has been no change in the TIP project schedule or project design concept and scope with regard to the air quality conformity finding made by the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Transportation Advisory Committee on May 8, 2013; 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 amends the FY 2012-2018 Transportation Improvement Program of the Durham-Chapel Hill-Carrboro Urban Area, as approved by the Board on September 14, 2011, and as described in the "Attachments to Resolution for Amendment #21 to

DCHC MPO 2012-2018 TIP” as soon as it is authorized to do so provided here on this, the 8th day of October, 2014.

Ellen Reckhow, MPO Board Chair

Durham County, North Carolina

I certify that Ellen Reckhow personally appeared before me this day acknowledging to me that she signed the forgoing document.

Date: October 8, 2014

Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2015

Attachment to Resolution for Amendment #21 to DCHC 2012-2018 MTIP

Modifications

CURRENT/EXISTING						
Location/ System	STIP #	Description	Phase	Funding Source	FY 2015	FY 2016
Durham Area Transit Authority		Purchase 3 40-foot diesel replacement buses	Capital	STP-DA		1,068,000
			Capital	Local		267,000
Durham Area Transit Authority		Purchase 1 15-passenger ADA van	Capital	STP-DA	49,550	
			Capital	Local	12,387	
PROPOSED						
Location/ System	STIP #	Description	Phase	Funding Source	FY 2015	FY 2016
Durham Area Transit Authority		Replacement Buses	Capital	STP-DA		720,000
			Capital	Local		180,000
Durham Area Transit Authority		Replacement Paratransit Vehicles	Capital	STP-DA		286,586
			Capital	Local		71,467

CURRENT/EXISTING						
Location/ System	STIP #	Description	Phase	Funding Source	FY 2015	FY 2016
Chapel Hill Transit	TA-4726A	3 Replacement Buses	Capital	STP-DA	1,068,000	
			Capital	Local	267,000	
PROPOSED						
Location/ System	STIP #	Description	Phase	Funding Source	FY 2015	FY 2016
Chapel Hill Transit	TA-4726A	3 Replacement Buses	Capital	STP-DA	973,331	720,000
			Capital	Local	361,669	180,000

CURRENT/EXISTING City of Durham								
Location/System	TIP #	Description	Phase	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018
Alston Ave Widening Project (NC 147 to Holloway) - Enhancements	U-3308	Enhancements and streetscape elements to Alston Ave project not covered by NCDOT.	Construction	STPDA	229,310			
			Construction	Local	57,328			
Cornwallis Rd	U-4724	Sidewalks and bicycle facilities from Chapel Hill Rd to S. Roxboro Rd	R/W	STPDA				
				Local				
			Construction	STPDA				
				Local				
Morreene Rd	C-4928	Sidewalks and bicycle facilities from Erwin Rd to Neal Rd	R/W	STPDA				
				Local				
			Construction	STPDA				
				Local				
Hillandale Rd	U-4726HK	Sidewalks and bicycle facilities from I-85 to NC 147	R/W	STPDA				
				Local				
			Construction	STPDA				
				Local				
Carpenter-Fletcher Rd	U-4726HO	Sidewalks and bicycle facilities from Woodcroft Pkwy to Alston Ave	R/W	STPDA				
				Local				
			Construction	STPDA				
				Local				
PROPOSED City of Durham								
Location/System	TIP #	Description	Phase	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018
Alston Ave Widening Project (NC 147 to Holloway) -	U-3308	Enhancements and streetscape elements to Alston Ave project not covered by NCDOT.	Construction	STPDA	229,310			
			Construction	Local	57,328			
Cornwallis Rd	U-4724	Sidewalks and bicycle facilities from Chapel Hill Rd to S. Roxboro Rd	R/W	STPDA				
				Local				
			Construction	STPDA				3,853,888
				Local				1,124,051
Morreene Rd	C-4928	Sidewalks and bicycle facilities from Erwin Rd to Neal Rd	R/W	STPDA			5,595,000	
				Local			1,399,000	
			Construction	STPDA				2,140,301
				CMAQ				2,330,826
				Local				1,311,522
Hillandale Rd	U-4726HK	Sidewalks and bicycle facilities from I-85 to NC 147	R/W	STPDA			26,225	
				Local			6,556	
			Construction	STPDA				2,066,903
				Local				761,543
Carpenter-Fletcher Rd	U-4726HO	Sidewalks and bicycle facilities from Woodcroft Pkwy to Alston Ave	R/W	STPDA			21,855	
				Local			5,464	
			Construction	STPDA				3,204,976
				Local				1,076,411

CURRENT/EXISTING NCDOT								
Location/System	TIP #	Description	Phase	Funding Source	FY 2014	FY 2015	FY 2016	FY 2017
Hillsborough, Orange County	C-5184	RIVERWALK TRAIL, RIVERWALK TRAIL, PHASE III IN HILLSBOROUGH. CONSTRUCT A PAVED OFF-ROAD TAIL ALONG ENO RIVER CONNECTING RIVER PARK, GOLD PARK AND THE OCCONEECHEE MOUNTAIN STATE NATURAL AREA, AND CONSTRUCT SIDEWALK TO PROVIDE PEDESTRIAN AND BICYCLE CONNECTIONS TO THE GREENWAY	R/W	CMAQ	80,000			
				Capital	20,000			
			Construction	CMAQ	360,000			
				Capital	90,000			
PROPOSED NCDOT								
Location/System	TIP #	Description	Phase	Funding Source	FY 2014	FY 2015	FY 2016	FY 2017
Hillsborough, Orange County	C-5184	RIVERWALK TRAIL, RIVERWALK TRAIL, PHASE III IN HILLSBOROUGH. CONSTRUCT A PAVED OFF-ROAD TAIL ALONG ENO RIVER CONNECTING RIVER PARK, GOLD PARK AND THE OCCONEECHEE MOUNTAIN STATE NATURAL AREA, AND CONSTRUCT SIDEWALK TO PROVIDE PEDESTRIAN AND BICYCLE CONNECTIONS TO THE GREENWAY	R/W	CMAQ	80,000			
				Capital	20,000			
			Construction	CMAQ		360,000		
				Capital		90,000		

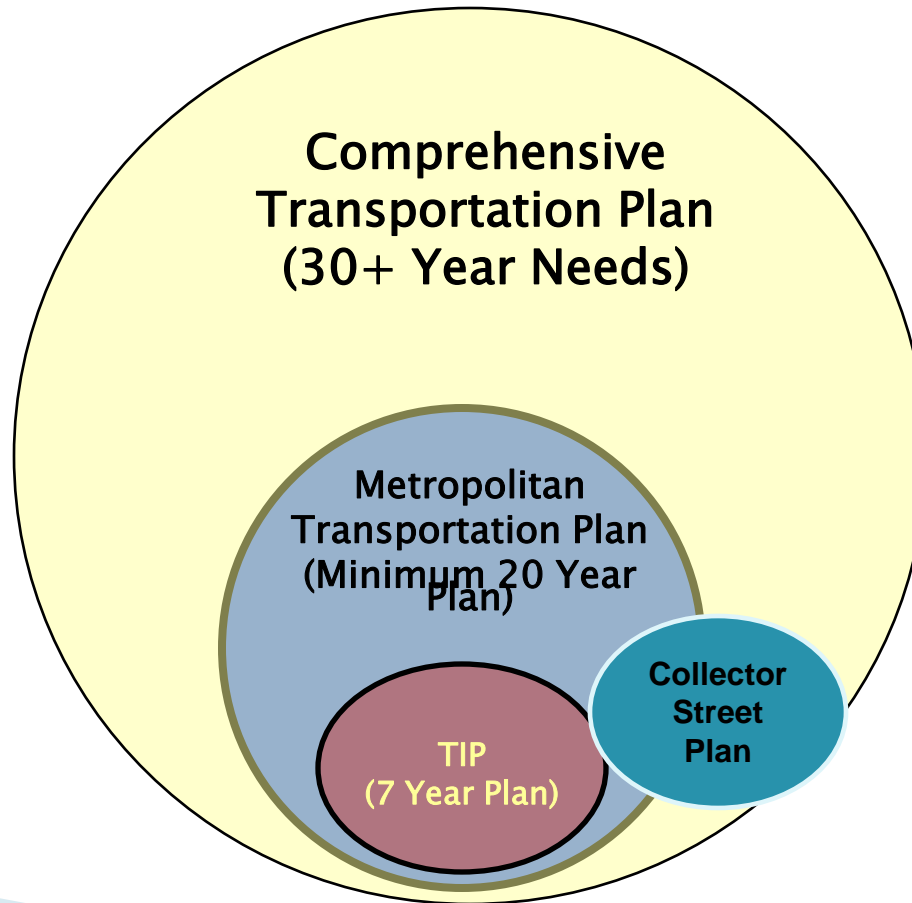


Comprehensive Transportation Plan (CTP)

September 24, 2014

Background and Schedule

Relationship Between Plans



Plan Comparison

	Approximate Plan Horizon	Identifies?	Fiscally Constrained	Report Required
Comprehensive Transportation Plan	30+ Years	Existing and planned facilities	No	Yes
Metro. Transportation Plan	20 Year Minimum	Planned facilities	Yes	Yes
Transportation Improvement Program	7 Years	Planned facilities	Yes	No
Collector Street Plan	30+ Years	Existing and planned facilities	No	No

Plan Comparison (cont.)

	Who Requires?	Update Requirement	Adopted by	A/Q Conformity Required
Comprehensive Transportation Plan	State Statute	No requirement	MPO Bd and NCDOT BOT	No
Metro. Transportation Plan	Federal legislation	Every 4 years	MPO Bd	Yes, for non-attainment & mtce.
Transportation Improvement Program	Federal legislation	Every 2 years	MPO Bd and NCDOT BOT	3 years, for non-attainment & mtce.
Collector Street Plan	No requirement	No requirement	MPO Bd (local ordinance reference)	No

Why do a CTP?

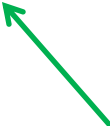
- **Planners are using old plans for development review:**
 - Durham, 1992; Chapel Hill, 1994; Carrboro, 1994; Orange County, 1990 (not adopted).
- **State Statute § 136–66.2. “Development of a coordinated transportation system”**
- **Provide input to 2045 MTP that looks beyond 2045.**

Key Issues

- Can use most SE Data, TRM (model) and project list from 2040 MTP process
- Have to consider neighbors' CTPs:
 - Orange County
 - Chatham County (draft)
 - Granville County
 - Person County
- Local ordinances reference old Thoroughfare Plans
- Potential MPO/NCDOT disagreement on roadway classification, e.g., Northern Durham Parkway

CTP Schedule

1. Deficiency Analysis (CTP 2): November 2014
2. Analyze Alternatives (CTP 3): March 2015
3. Draft CTP (CTP 4): June 2015 (coordinate with local jurisdictions);
4. Public Involvement Session: June – August 2015
5. MPO Adoption (CTP 5): September 2015.

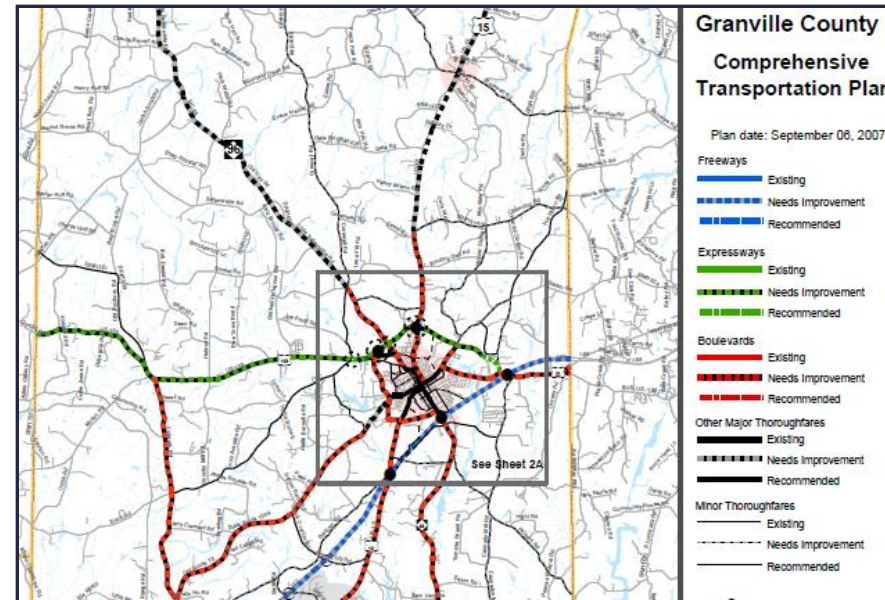



These milestones are similar to Metropolitan Transportation Plan (MTP) process.

What are Key Products?

- Similar to MTP:
 - V/C congestion maps
 - Project tables
 - Multi-modal
 - Public input process

- With some additions:
 - Problem Statement for major projects
 - Comprehensive maps




Active Feasibility and Environmental Studies in the DCHC MPO Area

1

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What is Level-of-Service (LOS)?

Defined - it is a quantitative stratification of the quality of transportation service for a facility. It is a measure of user satisfaction for each particular mode of travel, although typically the single occupancy vehicle is the standard measure for level of service.

In everyday terms, Level-of-Service is how well traffic is moving on a particular road.


Marbles free to move around in the bowl!!!

Ease of Movement = Good Level-of-Service



Full of marbles-can't move in bowl

No Movement= Poor Level-of-Service



3

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DISCLAIMER:







- The following studies I am providing information on are not my studies.
- I am the messenger of study information and this presentation contains contact information for the study managers.
- However, I would be happy to take comments and get back to you with responses from the study managers.

2

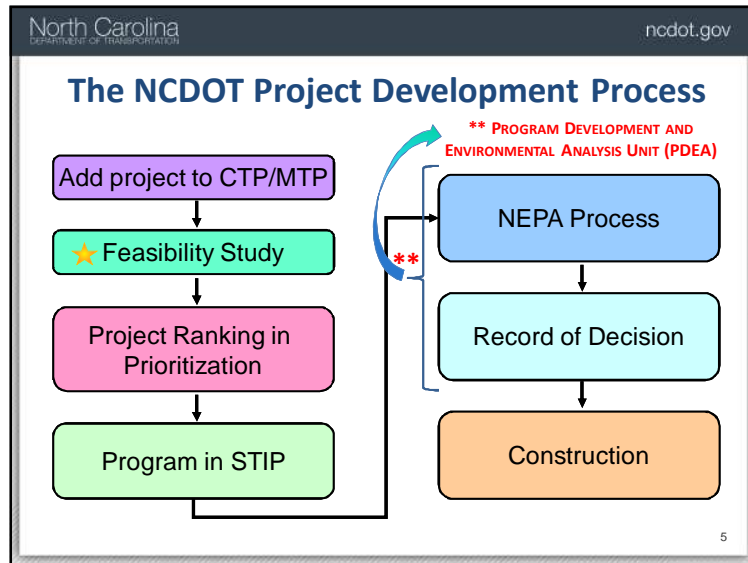
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Level-of-Service (LOS): A to F

The Highway Capacity Manual conceived the LOS concept in the 60's and developed a labeling system to quantify the differing levels for us planner & engineer types. There are 6 letter grades, A-F, and they are associated with different levels of congestion & mobility.

<p>Level of Service A</p>  <p>Driver Comfort: High Maximum Density: 12 passenger cars per mile per lane</p>	<p>Level of Service B</p>  <p>Driver Comfort: High Maximum Density: 20 passenger cars per mile per lane</p>	<p>Level of Service C</p>  <p>Driver Comfort: Some Tension Maximum Density: 30 passenger cars per mile per lane</p>
<p>Level of Service D</p>  <p>Driver Comfort: Poor Maximum Density: 42 passenger cars per mile per lane</p>	<p>Level of Service E</p>  <p>Driver Comfort: Extremely Poor Maximum Density: 67 passenger cars per mile per lane</p>	<p>Level of Service F</p>  <p>Driver Comfort: The lowest Maximum Density: More than 67 passenger cars per mile per lane</p>

4



How does a project become a Feasibility Study?

Projects that score highly during the Prioritization Process that don't get programmed into the STIP or have insufficient information to be appropriately programmed may become Feasibility Studies. This allows the department to study projects that are most likely to be programmed in the next few prioritization cycles.

Other studies are on a case-by-case basis based on discussions between Programming, Division, and local officials.

Next Steps

The Feasibility Study results update the data in the prioritization process database and help NCDOT, MPO/RPO and Local Government make informed decisions regarding the funding and implementation of the proposed improvements.

What is a Feasibility Study?

A Feasibility Study is a preliminary engineering and funding evaluation of a candidate State Transportation Improvement Program (STIP) Project. It is the initial step in the planning and design process and not the product of exhaustive environmental or design studies.

What is the Purpose?

The purpose of the feasibility study is to describe the proposed scope of improvements, provide the associated costs and impacts, and identify potential concerns or problems within the project area.

Active Feasibility Studies in the DCHC MPO Area

North Carolina DEPARTMENT OF TRANSPORTATION ncdot.gov

P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEG.:	Statewide Mobility						Div. Needs
STATUS:	Submitted						
SPOT ID:	H111143-A (Upgrade to Superstreet w/ multi-modal accomod.)	H111143 -B (Upgrade to Superstreet.)	H111143 -C (Improve intersection.)	H141884 (Improve interchange.)	H141545 (Improve interchange.)	H140638 (Construct roadway on New Location.)	
SCORES (by Section):	(Ephesus Church Rd.-NC 86 (Columbia St.))	(East Lakeview Dr.-Sage Rd.)	(Ephesus Church Rd.)	NC 54, NC 86 (Columbia St.)	NC 54 (Raleigh Rd.)	Elliot Rd. (US 15/501-Ephesus Ch. Rd.)	
Statewide Mobil.:	44.55	67.47	50.92	39.94	66.02	0	
Regional Impact:	32.62	63.72	42.81	35.03	54.8	0	
Division Needs:	26.34	45.84	34.39	27.19	42.45	12.27	

U-5304 (US 15-501, Widening and Upgrade to Superstreets)
From NC 86 to I-40.

Traffic Forecast – January 2015
Completion – 2/2016

DCHC MPO allocated Regional Points: 100

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North Carolina DEPARTMENT OF TRANSPORTATION ncdot.gov

FS-1305A (I-540, Add Managed Lanes) Traffic Forecast: Projected Volumes

ROUTE	KEY LOCATIONS	BY 2013 NO BUILD	FY 2040 NO BUILD	2040 FY BUILD		
				Alt. 1	Alt. 2	
NC 540	South of NC 54 (Chapel Hill Rd)	21,700	71,400	70,900	71,400	
	NC 54 (Chapel Hill Rd) to I-40	30,700	71,100	70,400	70,700	
	General Purpose (GP) Lanes, I-40 to Aviation Pkwy	75,400	123,600	121,200	116,800	
I-540	Managed Lanes (ML), I-40 to Aviation Pkwy	-	-	18,200	22,000	
	Total, I-40 to Aviation Pkwy	75,400	123,600	139,400	138,800	
I-540	GP Lanes, Lumley Rd to US 70 (Glenwood Ave)	84,800	146,700	139,100	150,700	
	ML, Lumley Rd to US 70 (Glenwood Ave)	-	-	7,300	11,400	
	Total, Lumley Rd to US 70 (Glenwood Ave)	84,800	146,700	146,400	162,100	
I-540	GP Lanes, US 70 (Glenwood Ave) to Leesville Rd	87,000	140,400	135,200	133,600*	
	[*ML Access between Glenwood and Leesville for FY Build]		-	-	15,000*	22,400*
	Total, US 70 (Glenwood Ave) to Leesville Rd	87,000	140,400	151,600	158,000	
I-40	GP Lanes, Page Rd to I-540	173,000	215,400	222,200	221,900	
	ML, Page Rd [**NC 147 for FY Build] to I-540	-	12,800	24,000**	24,900**	
	Total, Page Rd to I-540	173,000	228,200	246,200	246,800	
I-40	GP Lanes, I-540 to Airport Blvd	144,300	185,900	184,600	184,000	
	ML, I-540 to Airport Blvd	-	13,200	12,600	13,300	
	Total, I-540 to Airport Blvd	144,300	199,100	197,200	197,300	
NC 54	East of NC 540	24,100	33,800	34,800	35,000	
	(Chapel Hill Rd) West of NC 540	26,100	43,500	42,700	42,500	
US 70	East of I-540	38,900	94,100	92,900	93,100	
	(Glenwood Ave) West of I-540	51,500	113,600	113,700	114,000	

On I-540 from I-40 eastward to US 64/264 and on US 64/264 from I-540 westward to I-440:
 • Alt. 1 Scenario adds one managed lane in each direction
 • Alt. 2 Scenario adds two managed lane in each direction

Taken from FS-1305A Traffic Forecast (June 2014) Tables C8 and C9. 11

North Carolina DEPARTMENT OF TRANSPORTATION ncdot.gov

P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEGORY:	Statewide Mobility	
STATUS:	Submitted	
SPOT ID:	H128071 (Construct express toll lanes.)	H111014 (Convert tolled facility and widen to 8 ins.)
SCORES (by Section):	(NC 54-US 1)	(I-40-US 64 Byp.)
Statewide Mobility:	37.1	63.49
Regional Impact:	27.59	49.77
Division Needs:	21.13	38.98

FS-1305A (I-540, Add Managed Lanes)
From NC 54 to US 64 (Knightdale Bypass).

Traffic Forecast – Complete June 2014
Completion – 3/2016

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North Carolina DEPARTMENT OF TRANSPORTATION ncdot.gov

Feasibility Studies Unit – Contact Info

Shane York, PE (919-707-4660)
U-5304 and FS-1305A Project Manager - Feasibility Studies Engineer
Feasibility Studies Unit

Hatchmott McDonald
U-5304 Consultant Firm

HNTB
FS-1305A Consultant Firm

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P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEGORY:	Regional Impact		
STATUS:	Submitted		
SPOT ID:	H090555-A	H090555-B	H111011
SCORES (by Section):	(US 64- O'Kelly Chapel Rd.)	(O'Kelly Chapel Rd.- Renaissance Pkwy)	(Renaissance Pkwy- NC 54)
Statewide Mobility:	0	0	0
Regional Impact:	17.57	17.3	21.7
Division Needs:	12.89	14.63	18.49

FS-1008B (NC 751, Widening)
 From US 64 in Chatham County to North of SR 1118 (Fayetteville Road) in Durham County. Widen to Multilanes with Bike Lanes.

Traffic Forecast – Complete
Study Completion – 6/2015

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P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEGORY:	Statewide Mobility
STATUS:	Submitted
SPOT ID:	H110997 (Widen rdwy to 6 lns and rehab)
SCORES:	(I-40-East End Connector)
Statewide Mobility:	31.73
Regional Impact:	27.24
Division Needs:	21.52

FS-1205C (NC 147, Add Managed Lanes)
 From I-40 to East End Connector. Add managed lanes and rehabilitate pavement.

Traffic Forecast – Complete
Completion – 4/2015

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FS-1008B (NC 751, Widening)
Traffic Forecast: Projected Volumes

KEY LOCATIONS	BY 2011 NO BUILD	2035 FY NO BUILD	2035 FY BUILD
NC751 N of NC54	19,500	35,000	36,500
NC751 S of NC54	14,300	27,700	29,600
NC751 N of SR1192 - Massey Chapel Rd	11,500	31,100	37,100
NC751 N of SR1118 - Fayetteville Rd	9,700	26,500	32,800
NC751 S of SR1118 - Fayetteville Rd	11,900	28,900	37,500
NC751 S of SR1731 - O'Kelly Chapel Rd	8,300	19,400	27,000
NC751 S of SR1752 - Marthas Chapel Rd	8,900	20,800	29,000
NC751 N of US64	8,100	17,900	25,500

Taken from FS-1008B Traffic Forecast (Jan. 2012) Table 3 (Model Validation) and 2035 Build Diagram.

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FS-1205C (NC 147, Add Managed Lanes)
Traffic Forecast: Projected Volumes

ROUTE	KEY LOCATIONS	BY 2013 NO BUILD	2040 FY NO BUILD	2040 FY BUILD		
				Option 1A	Option 2B	
Triangle Expressway	South of I-40	10,100	49,800	53,400	52,500	
	I-40 to Cornwallis Road [GP and ML] [Managed Lanes (ML)]	57,800	91,300	106,800	108,900	
NC 147 (Durham Freeway)	Cornwallis Road to TW Alexander Drive [GP and ML] [Managed Lanes (ML)]	60,900	94,800	112,900	110,000	
	TW Alexander Drive to Ellis Road [GP and ML] [Managed Lanes (ML) from TW Alexander to EEC*]	64,100	89,000	106,100	103,000	
	Ellis Road to East End Connector (EEC) [GP and ML] [Managed Lanes (ML) from TW Alexander to EEC*]	60,800	83,800	98,200	97,800	
	East End Connector to Briggs Avenue	60,800	86,200	98,200	97,000	
	Briggs Avenue to NC 55 (Alston Avenue)	67,200	86,900	99,200	98,600	
	North of NC 55 (Alston Avenue)	79,500	103,700	107,600	107,000	
	<i>Some of the studied Alternatives descriptions (shown above):</i>					
	<ul style="list-style-type: none"> Build Alt. 1A widens NC 147 from four to six general purpose lanes from I-40 to NC 55 in downtown Durham. Build Alt. 2B adds two managed lanes in each direction on NC 147 from I-40 to the East End Connector (EEC) and on the EEC from NC 147 to US 70. Access to the managed lanes is provided at I-40/NC 147, NC 147/TW Alexander Drive, the NC 147/EEC, and the EEC/US 70. Widens NC 147 to six general purpose lanes north of the EEC. 					
	<i>Taken from FS-1205C Traffic Forecast (2014) Table C6, C8, C9, and C12.</i>					

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Feasibility Studies Unit – Contact Info

Sonya Tankersley (919-707-4664)
FS-1008B and FS-1205C Project Manager - Feasibility Studies Engineer
Feasibility Studies Unit

AECOM
FS-1205C Consultant Firm

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FS-1205A (I-40, Construct Managed Lanes) Traffic Forecast: Projected Volumes

ROUTE	KEY LOCATIONS	BY 2013 NO BUILD	2040 FY NO BUILD	2040 FY BUILD			
				Alt. 2A	Alt. 2B	Alt. 5A (1 ML)	Alt. 6A (2 ML)
I-40 / I-85	I-85 Connector Rd. to I-85	89,400	117,000	120,400	120,400	119,200	119,200
I-40	I-85 to SR 1009 (Old NC 86)	56,200	73,500	81,100	81,200	78,700	77,200
	NC 86 (MLK Jr. Blvd.) to US 15-501 (Durham-Chapel Hill Blvd.)	69,700	101,600	117,100	117,100	108,400	109,900
	US 15-501 (Durham-Chapel Hill Blvd.) to NC 54	85,000	127,100	143,500	143,400	137,000	139,700
	SR 1945 (Alston Ave.) to NC 147	124,400	186,000	209,300	209,500	208,700	215,500
	NC 147 to SR 1999 (Davis Dr.)	150,700	225,300	243,300	243,600	248,300	256,200
	SR 1973 (Page Rd.) to I-540	170,800	255,300	268,700	269,000	278,900	286,200
	I-540 to SR 3015 (Airport Blvd.)	142,500	213,000	231,600	231,900	230,900	236,100
	SR 1652 (N. Harrison Ave.) to SR 1728 (Wade Ave.)	161,600	241,600	258,400	262,800	258,000	264,200
	SR 1728 (Wade Ave.) SR 1656 (Trinity Rd.)	99,000	156,100	174,400	177,600	175,200	180,800

Some of the studied Alternatives descriptions (shown above):

- Alt. 2A – GP Lane Widening (1 lane from I-85 to I-440, 2 Lanes from I-440 to NC 42), Add'l Interchanges
- Alt. 2B – GP Lane Widening (1 lane from I-85 to I-440, 2 Lanes from I-440 to NC 42), No add'l Interchanges
- Alt. 5A – 1 Managed Lane from I-85 to I-95, GP Lane Widening (1 lane from Wade Ave. to Lake Wheeler Rd. and I-440 to I-95), Add'l Interchanges
- Alt. 6A – 2 Managed Lanes from I-85 to I-95, GP Lane Widening (1 lane from Wade Ave. to Lake Wheeler Rd.), Add'l Interchanges

Taken from FS-1205A Traffic Forecast (2014) Diagrams.

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P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEGORY: Statewide Mobility

STATUS: Submitted

SPOT ID: H111013 H111131

SCORES (by Section): (Wade Ave.- NC 147) (NC 147-US 15/501)

Statewide Mobility: 61.11 48.76

Regional Impact: 40.44 35.24

Division Needs: 28.58 26.52

FS-1205A (I-40, Construct Managed Lanes)
From US 15-501 in Durham to SR 1728 (Wade Avenue) in Wake County. Evaluate to I-85 in study.

Traffic Forecast – Late Summer 2014
Completion – 4/2015

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U-4721 (New Route – Northern Durham Parkway)
From I-540 to US 501 (N. Roxboro Road)

Traffic Forecast – Complete 2013
Study Completed – January 2014

P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEG.:	Division Needs				
STATUS:	Submitted				
SPOT ID:	H129640-A (Widen to Six Lanes, Part on New Location.)	H129640-B (Construct Multi-Lanes on New Location.)	H129640-C (Construct Multi-Lanes on New Location.)	H129640-D (Construct Multi-Lanes on New Location.)	H129640-E (Modernize Roadway.)
SCORES (by Section):	(I-540 in Wake Co.- US 70)	(US 70-NC 98)	(NC 98-I-85)	(I-85-Old Oxford Rd.)	(Old Oxford Rd. - US 501)
Statewide Mobil.:	0	0	0	0	0
Regional Impact:	0	0	0	0	0
Division Needs:	21.09	21.04	21.04	22.4	7.12

SECTION C
SECTION B
SECTION AC
SECTION AB
SECTION AA

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**U-4721 North Durham Parkway (NDP):
Traffic Forecast Projected Volumes on US 70 and NDP**

ROUTE	KEY LOCATIONS	BY 2012 BUILD		2040 FY NO BUILD	2040 FY BUILD	
		Blvd	Fwy		Blvd	Fwy
NDP	(B) North of I-85	8,300	12,000	12,900	26,100	30,000
	(AC) South of I-85	10,000	32,600	14,600	17,000	43,500
	(AC) North of NC 98	18,100	32,700	9,500	21,700	41,200
	(AB) South of NC 98	17,700	35,400	12,100	18,700	41,300
	(AB) North of US 70 (new location)	17,300	30,900	--	24,800	40,900
US 70	(AA) South of US 70 (new location)	9,800	16,500	--	18,900	28,300
	South of I-85 and North of Cheek Rd	48,900	38,800	106,000	102,300	88,900
	South of Cheek Rd and North of NC 98	35,400	25,100	90,400	89,700	74,600
	South of NC 98	31,000	23,700	109,400	107,000	93,700
	North of Miami Blvd	37,600	29,500	100,300	98,800	90,300
	North of Leesville Rd	31,900	30,500	87,700	83,800	77,800
	North of I-540	59,800	63,700	121,300	123,500	123,500

Taken from U-4721 Traffic Forecast (Oct. 2013) Tables 8 (2012 & 2040) and 9.

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**U-4721 North Durham Parkway:
Recommended Cross-Sections (Cont.)**

Cross-section:
4-lane divided curb and gutter section, with 12-foot lanes, a raised grass median, 5-foot bike lanes, and 5-foot sidewalks.

**SECTION AB & AC - BOULEVARD
130' ROW**

Cross-section:
4-lane divided freeway section, with 12-foot lanes and grass median.

**SECTION AB & AC - FREEWAY
250' ROW**

Section	Configuration	Capacity	Min 2040 Volume	Max 2040 Volume	Min V/C	Max V/C
Section AB	Boulevard	38100	18700	27900	0.49	0.73
Section AB	Freeway	61700	40900	41300	0.66	0.67

(US 70 to NC 98)

Section	Configuration	Capacity	Min 2040 Volume	Max 2040 Volume	Min V/C	Max V/C
Section AC	Boulevard	38100	14500	21700	0.38	0.57
Section AC	Freeway	61700	41200	43500	0.67	0.71

(NC 98 to I-85)

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**U-4721 North Durham Parkway: Feasibility Study
Recommended Cross-Sections**

Cross-section:
4-lane divided freeway section, with 12-foot lanes and grass median.

**SECTION AA - FREEWAY
300' ROW**

Section	Configuration	Capacity	Min 2040 Volume	Max 2040 Volume	Min V/C	Max V/C
Section AA	Freeway	61700	28300	40400	0.46	0.65

(I-540 to US 70)

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**U-4721 North Durham Parkway:
Recommended Cross-Sections (cont.)**

Cross-section:
4-lane divided curb and gutter section, with 12-foot lanes, a raised grass median, 5-foot bike lanes, and 5-foot sidewalks.

**SECTION B - BOULEVARD
130' ROW**

Section	Configuration	Capacity	Min 2040 Volume	Max 2040 Volume	Min V/C	Max V/C
Section B	Boulevard	38100	17000	27600	0.45	0.72

(I-85 to Old Oxford Hwy)

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U-4721 North Durham Parkway:
Recommended Cross-Sections (cont.)

Cross-section:
3-lane undivided curb and gutter section, with 12-foot lanes, 5-foot bike lanes, and 5-foot sidewalks.

Cross-section:
4-lane divided curb and gutter section, with 12-foot lanes, a raised grass median, 5-foot bike lanes, and 5-foot sidewalks.

	Capacity	Min 2040 Volume	Max 2040 Volume	Min V/C	Max V/C
Section C	3 Lane	14500	12800	0.88	1.50
Section C	Boulevard	38100	12800	0.34	0.57

(Old Oxford Hwy to US 501)

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U-4721 North Durham Parkway:
Recommendations (Cont.)

Table 2:
Total Project Cost with Sections AA, AB, and AC as a Freeway and Sections B and C as a Boulevard

Section	Right of way Cost	Utility Relocation Cost	Construction Cost	Total Cost	Residences Relocated	Businesses Relocated
Section AA	\$45,500,000	\$3,200,000	\$59,500,000	\$108,200,000	0	0
Section AB Option 2	\$23,700,000	\$2,000,000	\$54,300,000	\$80,000,000	34	3
Section AC Option 2	\$32,000,000	\$2,000,000	\$71,200,000	\$105,200,000	38	30
Section B	\$2,500,000	\$500,000	\$26,700,000	\$29,700,000	1	0
Section C Option 2	\$7,400,000	\$1,700,000	\$24,800,000	\$33,900,000	1	0
ITS Deployment				\$4,700,000		
Total Cost	\$111,100,000	\$9,400,000	\$236,500,000	\$361,700,000	74	33

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U-4721 North Durham Parkway: Feasibility Study Recommendations

SECTIONS AA, AB (OPTIONS 1 & 2), AC (OPTIONS 1 & 2), B, C-OPTION 2:
It was found that the four-lane divided sections would be able to accommodate the projected 2040 design year traffic volumes and operate at an acceptable level of service. The total combined estimated cost for the project is shown in Tables 1 and 2.

SECTION C – OPTION 1: It was found that the three-lane undivided curb and gutter section would not be able to accommodate the projected 2040 design year traffic volumes.

Table 1:
Total Project Cost with Section AA as a Freeway and Sections AB, AC, B, and C as a Boulevard

Section	Right of way Cost	Utility Relocation Cost	Construction Cost	Total Cost	Residences Relocated	Businesses Relocated
Section AA	\$45,500,000	\$3,200,000	\$59,500,000	\$108,200,000	0	0
Section AB	\$6,300,000	\$1,600,000	\$29,200,000	\$37,100,000	11	1
Section AC	\$4,900,000	\$700,000	\$35,500,000	\$41,100,000	9	1
Section B	\$2,500,000	\$500,000	\$26,700,000	\$29,700,000	1	0
Section C – Option 2	\$7,400,000	\$1,700,000	\$24,800,000	\$33,900,000	1	0
ITS Deployment				\$4,700,000		
Total Cost	\$66,600,000	\$7,700,000	\$175,700,000	\$254,700,000	22	2

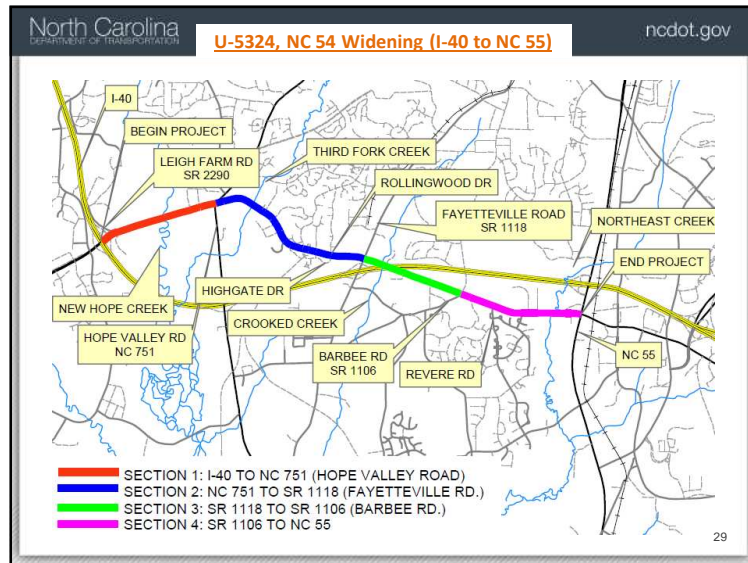
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U-5324 (FS-1005C) (NC 45 Widening)
From I-40 to NC 55 in Durham. Widen to multi-lanes with Transit accommodations, bike lanes and sidewalks.

Traffic Forecast – Complete 2011
Study Completed – July 2012

P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEG.:	Regional Impact				
STATUS:	Submitted				
SPOT ID:	H090531-A (Adjacent Multiuse Path)	H090531-B	H090531-C	H090531-D	H090531-E
SCORES (by Section):	(Barbee Chapel Rd. - I-40)	(I-40 - NC 751)	(NC 751 - Fayetteville Rd.)	(Fayetteville Rd. - Barbee Rd.)	(Barbee Rd. - NC 55)
Statewide Mobil.:	0	0	0	0	0
Regional Impact:	42.63	25.70	30.46	24.63	26.52
Division Needs:	34.23	21.18	25.34	20.61	22.35



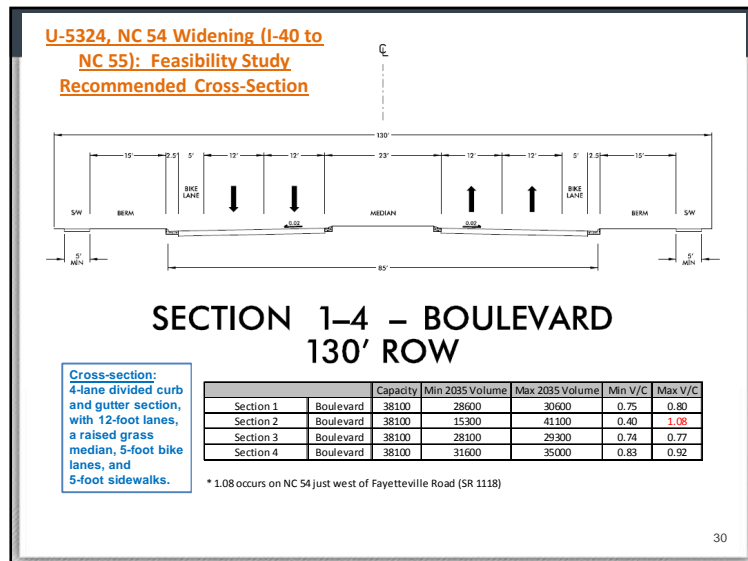
U-5324, NC 54 Widening (I-40 to NC 55): Feasibility Study

The current year Average Daily Traffic (ADT) along NC 54 is estimated to range from 9,400 vehicles per day (vpd) to 25,700 vpd. For the design year 2035, the traffic volume along NC 54 is estimated to range between 15,300 vpd to 41,100 vpd. Truck traffic is estimated to be up to 3 percent of the daily traffic.

The existing segment of NC 54 operates at a level of service (LOS) F under current traffic volumes. With the proposed improvements, all intersections along NC 54 except for SR 1118 (Fayetteville Road) and NC 55 are projected to operate at a LOS D or better. In order to achieve a LOS D at these intersections, significant improvements well beyond the scope of this project are needed. The improvements to these intersections include, but may not be limited to additional through capacity on SR 1118 and NC 55.

Table 1. Level of Service Summary

Section	2012 Existing Conditions	2035 Existing Conditions	2035 Proposed Improvements
Section 1	E	F	C
Section 2	E	E	B
Section 3	E	E	B
Section 4	E	F	C



U-5324, NC 54 Widening (I-40 to NC 55): Feasibility Study

Table 2. Level of Service Summary

Intersection	2012 Existing Conditions	2035 Existing Conditions	2035 Proposed Improvements
SR 2290 (Leigh Farm Rd.)/ Quadrangle Dr.	F	F	C
NC 751	E	F	D
Highgate Dr.	C	D	B
Highgate Dr./Rollingwood Dr.	C	D	B
SR 1118 (Fayetteville Rd.)	E	F	F
SR 1106 (Barbee Rd.)	E	F	D
SR 1101 (Revere Rd.)	D	E	B
NC 55	F	F	F

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U-5324, NC 54 Widening (I-40 to NC 55): Feasibility Study Recommendations

Section 1: It was found that the four-lane divided curb and gutter section would be able to accommodate the projected 2035 design year traffic volumes at an acceptable level of service.

Section 2: It was found that the four-lane divided curb and gutter section would be able to accommodate the projected 2035 design year traffic volumes. All of the intersections except for the intersection with SR 1118 (Fayetteville Road) will operate at an acceptable level of service. Additional intersection improvements beyond the scope of this project would be required at SR 1118 to achieve a LOS D or better. These improvements include additional through lanes on SR 1118.

Section 3: It was found that the four-lane divided curb and gutter section would be able to accommodate the projected 2035 design year traffic volumes at acceptable level of service.

Section 4: It was found that the four-lane divided curb and gutter section would be able to accommodate the projected 2035 design year traffic volumes. All of the intersections except for the intersection with NC 55 will operate at an acceptable level of service. Additional intersection improvements beyond the scope of this project would be required at NC 55 to achieve a LOS D. These improvements include additional through lanes on NC 55.

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Feasibility Studies Unit – Contact Info

Lynnise Hawes, PE (919-707-4662)
FS-1205A, U-4721 and U-5324 Project Manager -
Feasibility Studies Engineer
Feasibility Studies Unit

Atkins
FS-1205A Consultant Firm

Derrick Lewis, PE (919-707-4663)
Feasibility Studies Unit Head



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U-5324, NC 54 Widening (I-40 to NC 55): Feasibility Study Recommendations

The total combined estimated cost for Section 1, Section 2, Section 3, Section 4, the extension of Culvert Number 13 at New Hope Creek, the replacement of Bridge Number 41 over New Hope Creek, the replacement of Culvert Number 46 at Third Fork Creek, the replacement of Bridge Numbers 307 and 308 over NC 54, the extension of Culvert Number 51 at Northeast Creek, and the recommended additional right of way for transit pullouts is \$117,800,000. It is anticipated that a total of three (3) residences and three (3) businesses will be relocated along NC 54. Please see Table 3 for a comprehensive breakdown of these sections and costs.

Table 3. Project Cost

Section	Right of way Cost	Utility Relocation Cost	Construction Cost	Total Cost	Residences Relocated	Businesses Relocated
Section 1	\$1,800,000	\$800,000	\$29,400,000	\$32,000,000	0	0
Section 2	\$5,900,000	\$2,500,000	\$13,200,000	\$21,600,000	0	1
Section 3	\$2,500,000	\$10,700,000	\$20,400,000	\$33,600,000	3	1
Section 4	\$3,200,000	\$12,600,000	\$14,800,000	\$30,600,000	0	1
Total project cost	\$13,400,000	\$26,600,000	\$77,800,000	\$117,800,000	3	3

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Active Corridor Study in the DCHC MPO Area

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US 15-501 Corridor Study

By: Stantec & NCDOT Division 8

Study Area: 13 mile corridor between Chapel Hill (Orange County) and Pittsboro (Chatham County). Primary North-South Corridor in the area.

Access Management along Corridor:

- Divided Facility,
- Left Overs / U-turns Along Corridor, and
- Full Movement Locations Generally Half A Mile or More Apart.

Volumes: Current Traffic Volumes range from 15,000 to 30,000 vehicles per day.

Development: Development Occurring Along Corridor.

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US 15-501 Corridor Study: Current Conclusions

- Orange County: may need some widening.
- Chatham County: 4 lanes will work well into future (Sidestreet queuing will be expected with traditional intersections).
- Will need to signalize locations with growth.
- Continue good access management practices.

Timeline

- Receive comments on draft report by September 19, 2014.
- Final report to be completed in October 2014.

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Level-of-Service (LOS) at Key Intersections with US 15-501

KEY LOCATIONS	Level of Service, Overall LOS (AM/PM)			
	2013	2040		
	Existing	Scenario 1A: Improved Traditional Intersections	Scenario 1C: Improved Traditional Intersections, Widen North Section of US 15-501 & Upgrade NC 54/US 15-501 Interchange	Scenario 2: Superstreet (Intersection)
Culbreth / Mt. Carmel Church Road	D / F	F / E	D / D	D / D
Market Street	D / C	E / D	D / D	B / C
Smith Level Road	C / C	D / D	D / D	C / D
Mann's Chapel Rd / Plaza Dr	C / C	E / E	D / D	B / D D / B
Polks Landing Rd / South Driveway	D (EB) / F (EB) *	B / B	--	A / B A / B
Russet Run / Northwood High School Rd	B / A	D / D	--	B / B B / B

* Polks Landing Rd is unsignalized.

Taken from the Draft US 15-501 Corridor Study LOS Summary Tables: Existing Conditions Level-of-Service Summary, 2040 Standard Intersection Conditions Level-of-Service Summary, and 2040 Superstreet Conditions Level-of-Service Summary.

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NCDOT Division 8 – Contact Info

Darius D. Sturdivant (919-944-2344)
US 15-501 Corridor Study Project Manager – Division Planning Engineer
NCDOT Division 8

Stantec
Consultant Firm

Robert Stone, PE (919-944-2344)
NCDOT Division 8 – Division Engineer

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PDEA's Role

PDEA collaborates to define the specific project and obtain **AUTHORIZATION** for funding and permits.

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    graph TD
      A[State or Federal Environmental Decision Document] --> B[Authorize Funds Expenditure]
      A --> C[Obtain Permits]
    
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Federal Documents (larger studies)

- Environmental Impact Statement
- Environmental Assessment
- Categorical Exclusion

Env. Documents “tell the story”

Describe the Project
Justify Purpose and Need
Existing Environment – ALL Aspects
Describe Alternatives Evolution
Analyze Impacts
Input from Citizens, Agencies, Gov’t, others
Announce Decision... and why selected
List Coordination

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Federal Funding

Must comply with:

National Environmental Policy Act (NEPA)
Presidential Executive Orders
Federal Laws
State Laws

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Active Environmental Studies in the DCHC MPO Area

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I-3306A (I-40, Add Additional Lanes)
From I-85 in Orange County to the Durham County line.

Traffic Forecast – Complete
Current Activities – CP 1 & 2 meetings upcoming
Document Date – CE: 8/2017
R/W & Let Date – R/W: 11/2017; LET: 7/2019

P3.0 (ABBREVIATED) PROJECT SUMMARY	
PROJECT CATEGORY:	Statewide Mobility
STATUS:	Submitted
SPOT ID:	H090010-A
SCORES:	
Statewide Mobility:	41.89
Regional Impact:	30.18
Division Needs:	23.59

**The Let date is the actual date that contracts are awarded to the winning bidder.*

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P3.0 (ABBREVIATED) PROJECT SUMMARY	
PROJECT CATEGORY:	Regional Impact
STATUS:	Submitted
SPOT ID:	H129645
SCORES:	
Statewide Mobility:	0
Regional Impact:	27.91
Division Needs:	22.37

U-4722 (US 501, Widen to 6 Lanes with Median)
From US 501 Bypass (Duke Street) to SR 1640 (Goodwin Road) in Durham.

Traffic Forecast – Not complete
Current Activities – Start of studies
Document Date – EA: 10/2017; FONSI: 5/2019
R/W & Let Date – R/W: 11/2019; LET: 7/2023

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I-3306A (I-40, Add Additional Lanes)
Traffic Forecast (Update): Projected Volumes

KEY LOCATIONS	BY 2013 BUILD	2040 FY NO BUILD	2040 FY BUILD
I-40/I-85 W of SR1239 (I-85 Connector)	87,500	114,300	114,400
I-40/I-85 W of I-40/I-85 Interchange	83,700	112,300	112,700
I-40 E of I-40/I-85 Interchange	49,100	51,100	54,800
I-40 E of SR1009 (Old NC86)	58,400	64,000	69,800
I-40 E of SR1723 (New Hope Church Rd)	62,400	69,200	76,000
I-40 E of NC86	69,400	80,300	88,400
I-40 E of US15-501	84,800	101,100	105,000
I-40 E of NC54	117,200	153,200	155,800

Taken from I-3306A Traffic Forecast (Oct. 2013) Table A9: Previous and Updated Forecast Comparison

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PDEA Unit – Contact Info

Gene Tarascio (919-707-6046)
I-3306A and U-4722 Project Manager - Project Development Engineer
Project Development and Environmental Analysis (PDEA) - Central Region

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U-5518 (US 70, Upgrade Roadway and Add Interchanges at Briar Creek Pkwy and T.W. Alexander Dr. in Wake Co.)
 US 70 (Glenwood Ave.) from West of SR 3067 (T.W. Alexander Dr.) to I-540 in Raleigh.

Traffic Forecast – Complete
Current Activities – Consultant preparing functional design; Document being developed. CP 1 and public meeting upcoming
Document Date – EA: 7/2017
R/W & Let Date – R/W: 7/2019; LET: 7/2020 (for the Briar Creek Interchange only, other Post Year)

P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEG.:	Statewide Mobility		
STATUS:	Submitted		
SPOT ID:	H128081-A (Upgrade Arterial to Freeway.)	H128081-B (Upgrade exist. at-grade intersection to interchange.)	H128081-C (Upgrade exist. at-grade intersection to interchange.)
SCORES (by Section):	(West of T.W. Alexander Dr.-I-540)	(T.W. Alexander Dr.)	(Briar Creek Pkwy)
Statewide Mobil.:	62.85	41.79	74.73
Regional Impact:	57.27	42.27	64.11
Division Needs:	39.47	27.15	44.29

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U-5516 (US 501 / Latta Road / Infinity Road Intersection Improvement)
 Add lanes through Intersection.

Traffic Forecast – Complete
Current Activities – Functional design underway for Document; development to begin in Nov.
Document Date – PCE: 8/2015
R/W & Let Date – R/W: 8/2016; LET: 8/2017

P3.0 (ABBREVIATED) PROJECT SUMMARY

PROJECT CATEGORY:	Regional Impact
STATUS:	Submitted
SPOT ID:	H129685
SCORES:	
Statewide Mobility:	0
Regional Impact:	50.21
Division Needs:	39.66

DCHC MPO allocated Regional Points: 86

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U-5518 (US 70, Upgrade Roadway and Add Interchanges)
Traffic Forecast (Supplement): Projected Volumes

KEY LOCATIONS	BY 2013 BUILD	2040 FY NO BUILD	2040 FY BUILD
US 70 north of SR 3067 T W Alexander Dr	37,600	75,600	86,000
US 70 south of SR 3067 T W Alexander Dr	58,800	76,100	102,700
US 70 north of I-540	66,000	114,900	123,500
US 70 south of I-540	46,400	93,300	102,100
US 70 south of SR 1645 Lumley Rd/SR 1837 Westgate Dr	44,500	75,800	75,800
SR 2028 T W Alexander Dr west of SR 1973 Page Rd	26,400	37,000	37,000
SR 3067 T W Alexander Dr btw SR 1973 Page Rd & Future Northern Durham Pkwy	22,600	38,600	38,600
SR 3067 T W Alexander Dr west of US 70	24,200	40,100	45,300
SR 3109 Briar Creek Pkwy west of SR 1645 Lumley Rd	20,200	37,100	37,100
SR 3109 Briar Creek Pkwy northeast of SR 1645 Lumley Rd	17,300	22,800	22,800
SR 3109 Briar Creek Pkwy southwest of Macaw St/Inverness St	19,800	28,100	28,100
SR 3109 Briar Creek Pkwy southwest of Little Briar Creek Ln	21,600	30,700	30,700
SR 3109/SR 3100 Briar Creek Pkwy southwest of US 70 Glenwood Ave	30,400	43,100	43,100
SR 3109/SR 3100 Briar Creek Pkwy northeast of US 70 Glenwood Ave	28,800	61,900	68,700

Taken from U-5518 Traffic Forecast (May 2014) Tables 13, 15, 16, 17, 19, and 21.

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U-5516 (US 501 / Latta Road / Infinity Road Intersection Improvement):
 Latest preliminary functional design. Add extra turn lanes and medians.

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PDEA Unit – Contact Info

Ted Walls (919-707-6044)
 U-5518 and U-5516 Project Manager - Project Development Group Supervisor
 Project Development and Environmental Analysis (PDEA) - Central Region

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PDEA Unit – Contact Info

Theresa Ellerby, CPM (919-707-6020)
 I-5707 Project Manager - Project Development Engineer
 Project Development and Environmental Analysis (PDEA) - Central Region

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I-5707 (I-40 Auxiliary Lane)
 Widening between NC-147 and NC-55 for a west bound auxiliary lane.

Traffic Forecast – Not complete
Current Activities – Preparing to scope with Consultant
Document Date – 2016
R/W & Let Date – R/W: 2020; LET: 2021

P3.0 (ABBREVIATED) PROJECT SUMMARY	
PROJECT CATEGORY:	Statewide Mobility
STATUS:	Submitted
SPOT ID:	H140722
SCORES:	
Statewide Mobility:	49.78
Regional Impact:	40.33
Division Needs:	30.24

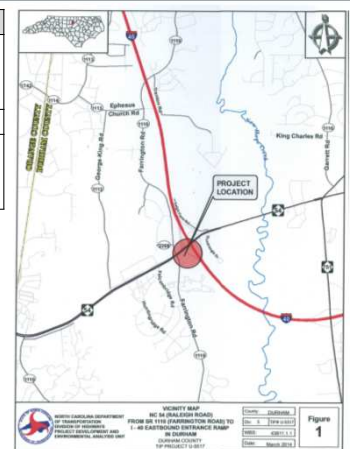
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P3.0 (ABBREVIATED) PROJECT SUMMARY	
PROJECT CATEGORY:	
STATUS:	NOT SUBMITTED/
SPOT ID:	NOT SCORED
SCORES:	
Statewide Mobility:	
Regional Impact:	
Division Needs:	

U-5517 (NC 54 - Construct Slip Ramp)
 From SR 1110 (Farrington Rd) to I-40 eastbound entrance ramp in Durham.

Traffic Forecast – Complete
Current Activities – Study was underway.
 Decided to drop because traffic analysis did not show benefit of proposed improvements.
Document Date – PCE: 12/2014
R/W & Let Date – R/W: 9/2015; LET: 9/2016



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U-5517 (NC 54 , Construct Slip Ramp)
Traffic Operations Analysis Report: Conclusions – Main Points

For the 2020 No Build and Build Conditions:

- The I-40 mainline and ramps would continue to function similarly.
- The Slip Ramp from Farrington Rd to the I-40 EB On Ramp would provide some benefit to the NC 54 corridor;
- However, additional improvements would be required to achieve a LOS E at the intersection of NC 54 at Farrington Rd.
- Additional EB and WB through lanes would be required in order to provide intersection LOS C or better in 2020.

For the 2040 No Build and Build Conditions:

- The intersections in the study area, both with and without the grade separation, would function at LOS D or worse.
- Due to the high traffic demand along NC 54, even with the additional improvements considered at the intersections of NC 54 at Farrington Rd and Falconbridge Rd, additional EB and WB through lanes would be required in order to provide an LOS C or better.
- Furthermore, the I-40 mainline and ramps would be over capacity and experience LOS D or worse in the vicinity of NC 54.

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Projects in Right-of-Way/Let Stage in the DCHC MPO Area


U-0071 (East End Connector)
From NC 147 (Durham Freeway) to North of NC 98 in Durham.
Multi-lane divided, part on new location.

Let Date – 10/2014

U-3308 (NC 55 / Alston Avenue Widening)
From NC 147 (Durham Freeway) to US 70 Business-NC 98 (Holloway Street) in Durham. Widen to four lane divided facility and replace Norfolk Southern Railroad bridges.

Let Date – 4/2015

**The Let date is the actual date that contracts are awarded to the winning bidder.*



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PDEA Unit – Contact Info

Karen Reynolds (919-707-6038)
U-5517 Project Manager - Project Development Engineer
Project Development and Environmental Analysis
(PDEA) - Central Region

Eric Midkiff, PE (919-707-6030)
Project Development Section Head
Project Development and Environmental Analysis
(PDEA) - Central Region



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STIP Unit – Contact Info

Mike Stanley, PE (919-707-4642)
Central Region Manager
Program Development Branch, STIP Unit



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MEMORANDUM

To: DCHC MPO Board
From: DCHC MPO Lead Planning Agency
Date: September 10, 2014
Subject: **Lead Planning Agency (LPA) Staff Report**

This memorandum provides a summary status of tasks for projects in the FY 2013-2014 Unified Planning Work Program.

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

FY 2014-2015 Unified Planning Work Program (UPWP) – Projects

Comprehensive Transportation Plan (CTP)

- Alternative Analysis – January 2015
- Draft CTP to Local Jurisdictions - April 2015
- MPO Adopt CTP – June 2015
- NCDOT BOT – September 2015
- Final CTP documentation and distribution – October 2015

MPO Community Viz. Scenarios Planning and Visualization -2.0

- Field verification & Validation of data – May to August 2014
- Model/Scenario Building – FY 2015

2014/2015 Base Year Data Collection (Traffic/Travel Time/Crash/Transit)

- Data collection (Volume/Trucks/Travel Time/Speed) – Fall 2014/Spring 2015
- Transit data collection – Fall 2014/Spring 2015

GIS Online (AGOL)/Data Management

- AGOL integration with the DCHCMPO Website – September 2014
- Portal for public interactive mapping –On going
- Maintenance and updates – On gong

MPO Congestion Management Process CMP

- 2014 Report – Under review
- Congestion monitoring – Continuously – On going

MPO Website Update

- Mapping integration – September 2014
- Content Editor & System Administration Training – September/October 2014
- Quality Assurance & Technology Transfer
- Agenda Portal – September/October 2014

- Launch Stage/Testing – October 2014
- Post Launch Services

Triangle Regional Model Update

- Household Survey – Pilot October 2014-March 2015
- Onboard Transit Survey – Pilot October 2014-March 2015
- Parking Survey – underway

Prioritization 3.0/STI/ FY 2016-22 TIP

- ✓ Approval of points – August 13, 2014
- Submission of points to NCDOT – August 29, 2014

MAP-21 Performance Measurement

Draft TIP

Regional Freight Plan

Regional/State Coordination

Contract Number: C202507	Route: I-540
Physical Division: 5	County: Durham
Administrative Division: 15	TIP Number: R-2635, U-4763B
Length: 18.8 miles	Federal Aid Number: TIFIA-540(2)
Resident Engineer: George C. Gibson, PE	RE Phone Number: (919)571-3000
Location Description: NC-540 FROM NC-55 NEAR APEX TO NC-54 NEAR RTP AND NC-147 FROM I-40 TO NC-540.	
Type of Work: DESIGN-BUILD LANDSCAPING.	
Contractor Name: SOUTHERN GARDEN, INC.	
Contract Amount: \$4,800,000.00	Cost Overrun/Underrun:
Availability Date: 8/15/2011	Letting Date: 4/21/2011
Completion Date: 7/1/2015	Work Began: 8/15/2011
Revised Completion Date:	Estimated Completion:
Last Estimate Thru:	Scheduled Progress:
Last Estimate Paid:	Actual Progress:

Contract Number: C202875	Route: I-540
Physical Division: 5	County: Durham
Administrative Division: 5	TIP Number: I-5307, I-5310
Length: 17.133 miles	Federal Aid Number: IM-0540(23)
Resident Engineer: Michelle H. Gaddy, PE	RE Phone Number: (919)840-0914
Location Description: I-540 FROM I-40 OVERPASS TO TRIANGLE TOWN BLVD, AND TRIANGLE TOWN BLVD FROM I-540 TO NEW ASPHALT PAVEMENT JOINT.	
Type of Work: MILLING, RESURFACING, SHOULDER RECONST, AND STR REHAB.	
Contractor Name: FSC II LLC DBA FRED SMITH COMPANY	
Contract Amount: \$8,384,157.45	Cost Overrun/Underrun: -4%
Availability Date: 2/27/2012	Letting Date: 1/17/2012
Completion Date: 11/15/2012	Work Began: 2/27/2012
Revised Completion Date: 4/4/2013	Estimated Completion: 10/1/2014
Last Estimate Thru: 3/22/2014	Scheduled Progress: 100%
Last Estimate Paid: 3/27/2014	Actual Progress: 98.56%

Contract Number: C203128	Route: SR-1978
Physical Division: 5	County: Durham
Administrative Division: 5	TIP Number: U-4716, U-4716A, U-4716B, U-4716C
Length: 4.203 miles	Federal Aid Number: FRA-FR-HSR-0006-10-01-00
Resident Engineer: Michelle H. Gaddy, PE	RE Phone Number: (919)840-0914
Location Description: CLEGG PASSING SIDING & HOPSON RD GRADE SEPARATION AND CLOSING OF AT-GRADE RR CROSSINGS.	
Type of Work: GRADING, DRAINAGE, PAVING, STRUCTURE & TRACKBED.	
Contractor Name: FSC II LLC DBA FRED SMITH COMPANY	
Contract Amount: \$10,900,447.15	Cost Overrun/Underrun: 22.07%
Availability Date: 12/31/2012	Letting Date: 11/20/2012
Completion Date: 12/28/2015	Work Began: 1/30/2013
Revised Completion Date: 10/21/2016	Estimated Completion: 12/28/2015
Last Estimate Thru: 8/7/2014	Scheduled Progress: 89%
Last Estimate Paid: 8/19/2014	Actual Progress: 74.7%

Contract Number: C203273	Route:
Physical Division: 5	County: Durham
Administrative Division: 5	TIP Number:
Length: 1.189 miles	Federal Aid Number:
Resident Engineer: E. Boyd Tharrington, PE	RE Phone Number: (919)562-7000
Location Description: REPLACEMENT OF 4 BRIDGES IN DURHAM CO, 3 BRIDGES IN GRANVILLE CO AND 1 BRIDGE IN VANCE CO.	
Type of Work: DESIGN BUILD.	
Contractor Name: FSC II LLC DBA FRED SMITH COMPANY	
Contract Amount: \$8,800,000.00	Cost Overrun/Underrun: 0%
Availability Date: 4/29/2013	Letting Date: 3/19/2013
Completion Date: 9/30/2016	Work Began: 4/29/2013
Revised Completion Date:	Estimated Completion: 9/30/2016
Last Estimate Thru: 7/31/2014	Scheduled Progress: 15.71%
Last Estimate Paid: 8/4/2014	Actual Progress: 15.71%

Contract Number: C203473	Route: US-70
Physical Division: 5	County: Durham
Administrative Division: 5	TIP Number:
Length: 20.44 miles	Federal Aid Number:

<p>Resident Engineer: Alan W. Shapiro, PE Location Description: 1 SECTION OF US-70, US-70 BUS, NC-98/US-70 BUS, NC-751, AND NC-55, AND 4 SECTIONS OF SECONDARY ROADS. Type of Work: MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION. Contractor Name: THE LANE CONSTRUCTION CORP Contract Amount: \$4,249,573.80 Availability Date: 3/10/2014 Completion Date: 11/14/2014 Revised Completion Date: Last Estimate Thru: 7/31/2014 Last Estimate Paid: 8/7/2014</p>	<p>RE Phone Number: (919)220-4680 Cost Overrun/Underrun: 3.76% Letting Date: 12/17/2013 Work Began: 3/10/2014 Estimated Completion: 11/14/2014 Scheduled Progress: 61.3% Actual Progress: 66.38%</p>
<p>Contract Number: C203512 Physical Division: 5 Administrative Division: 5 Length: 0.034 miles Resident Engineer: Alan W. Shapiro, PE Location Description: BRIDGE #193 ON SR-1671 (E CLUB BLVD) OVER I-85. Type of Work: BRIDGE REHABILITATION. Contractor Name: PALMETTO INFRASTRUCTURE INC Contract Amount: \$1,250,683.35 Availability Date: 5/1/2014 Completion Date: 11/30/2014 Revised Completion Date: Last Estimate Thru: 7/31/2014 Last Estimate Paid: 8/6/2014</p>	<p>Route: SR-1671 County: Durham TIP Number: Federal Aid Number: RE Phone Number: (919)220-4680 Cost Overrun/Underrun: 11.63% Letting Date: 3/18/2014 Work Began: 5/7/2014 Estimated Completion: 11/30/2014 Scheduled Progress: 51% Actual Progress: 35%</p>
<p>Contract Number: DE00100 Physical Division: 5 Administrative Division: 5 Length: 2.633 miles Resident Engineer: Michelle H. Gaddy, PE Location Description: SR 1110 (BARBEE CHAPEL RD/FARRINGTON RD) AND SR 1107 (STAGECOACH RD) Type of Work: SR 1110 WIDENING FOR BIKE LANES Contractor Name: BARNHILL CONTRACTING COMPANY Contract Amount: \$1,645,601.25 Availability Date: 8/18/2014 Completion Date: 11/21/2014 Revised Completion Date: Last Estimate Thru: Last Estimate Paid:</p>	<p>Route: SR-1110 County: Durham TIP Number: W-5205X, EB-4411D Federal Aid Number: STPEB-000S(752) RE Phone Number: (919)840-0914 Cost Overrun/Underrun: Letting Date: 7/23/2014 Work Began: 8/26/2014 Estimated Completion: Scheduled Progress: Actual Progress:</p>

<u>Let (B)</u>	<u>TIP Sub No.</u>	<u>Div</u>	<u>Let Type</u>	<u>Description</u>	<u>Con Est</u>	<u>ROW Est</u>	<u>Status</u>
07/14	U-4726HL	5	NON - DOT LET (Local)	DURHAM - SIDEWALK ON BARBEE STREET BETWEEN THE EXISTING SIDEWALK AT PEARSONTOWN ELEMENTARY SCHOOL AND ORINDO DRIVE; ANDSIDEWALK IN FORMER FAYETTEVILLE STREET RIGHT OF WAY TO CONNECT THE DURHAM AREA TRANSIT AUTHORITY (DATA) ADMINISTRATIVEOFFICES WITH GEER STREET	\$39,400		Proposal not received from City for review yet
09/14	C-5178	5	NON - DOT LET (Congestion Mitigation)	DURHAM - CAMPUS WALK AVENUE, MORREENE ROAD TO LASALLE STREET AND LASALLE STREET, KANGAROO DRIVE TO ERWIN ROAD CONSTRUCTSIDEWALKS	\$336,000		Need Final Plans and Proposal from City
09/14	U-4724	5	NON - DOT LET (Bicycle and Pedestrian)	DURHAM - CORNWALLIS RD FROM SOUTH ROXBORO RD TO UNIVERSITY DR	\$2,156,000		Need Final Plans and Proposal from City
10/14	U-0071	5	Raleigh Letting (LET)	DURHAM - EAST END CONNECTOR FROM NORTH OF NC 98 TO NC 147 (BUCK DEAN FREEWAY)	\$140,700,000	\$24,950,000	
01/15	EB-5514	5	NON - DOT LET (Bicycle and Pedestrian)	UNIVERSITY DRIVE (SR 2220, NC 751, SR 1183) FROM SR 2220 OLD CHAPEL HILL ROAD) TO SR 1158 (WEST CORNWALLIS ROAD)	\$1,025,000		Need Final Plans and Proposal from City
01/15	EB-4707B	5	Division Design Raleigh Let (DDRL)	DURHAM/CHAPEL HILL - SR 2220 (OLD DURHAM CHAPEL HILL ROAD) FROM SR 1113 (POPE ROAD) TO SR 1116 (GARRETT ROAD)	\$5,150,000		In R/W Acquisition
02/15	Small Constr.	5	Division POC Let (DPOC)	Barbee Rd at Herndon Rd - RBT	\$630,000	\$150,000	Need Muni. Agrmt. with City
03/15	SS-4905BI	5	Division POC Let (DPOC)	SR 1004 (Old Oxford Road) at SR 1648 (Danube Lane)	\$375,000	\$44,000	R/W 90%, Utility Eng. 75%
04/15	U-3308	5	Raleigh Letting (LET)	DURHAM - NC 55 (ALSTON AVENUE) FROM NC 147 (I. L. "BUCK" DEAN FREEWAY) TO NORTH OF US 70 BUSINESS - NC 98 (HOLLOWAY STREET)	\$30,900,000	\$3,869,000	
04/15	W-5205N	5	Division POC Let (DPOC)	US 15/501 (UNIVERSITY DRIVE) AT SUMMIT STREET/FORESTWOOD DRIVE	\$45,600		
05/15	SS-4905BM	5	Division POC Let (DPOC)	Carver St. (SR 1407) at Broad St./Kenan Rd. - Mini-Roundabout	\$320,000	\$33,000	R/W 10%
08/15	SS-4905CJ	5	Division POC Let (DPOC)	US 70 at Peyton Ave. (SR 1957) - construct island and revise pm's	\$30,000	N/A	Survey
09/15	C-5182	5	NON - DOT LET (Congestion Mitigation)	DURHAM - HOPE VALLEY ROAD CONSTRUCT SIDEWALKS AND BIKE LANES BETWEEN MARTIN LUTHER KING, JR. BOULEVARD PARKWAY AND US 15-501 BUSINESS	\$1,252,000	\$134,000	
09/15	C-5183A	5	NON - DOT LET (Congestion Mitigation)	DURHAM - CONSTRUCT SIDEWALKS	\$972,000		
09/15	C-5183B	5	NON - DOT LET (Congestion Mitigation)	DURHAM - CONSTRUCT SIDEWALKS	\$1,254,000		
01/16	EB-4707A	5	Division Design Raleigh Let (DDRL)	DURHAM/CHAPEL HILL FROM US 15/501 IN ORANGE COUNTY TO SR 1113 (POPE ROAD) IN DURHAM COUNTY BICYCLE, PEDESTRIAN AND TRANSIT IMPROVEMENTS	\$2,950,000	\$2,650,000	
02/16	W-5601E	5	Division POC Let (DPOC)	NC 157 (GUESS ROAD) AT NORTH POINTE DRIVE/ALBANY STREET			

08/16	I-5331	5	Division POC Let (DPOC)	INTERSTATE PREVENTATIVE MAINTENANCE (IMPM) I-85 FROM NORTH OF MP 183 TO THE GRANVILLE COUNTY LINE	\$250,000		Technical Committee 9/24/2014 Attachment 10
09/16	U-5517	5	Raleigh Letting (LET)	NC 54 FROM SR 1110 (FARRINGTON ROAD) TO I-40 EASTBOUND ENTRANCE RAMP IN DURHAM	\$1,300,000	\$300,000	
09/16	C-4928	5	NON - DOT LET (Congestion Mitigation)	DURHAM - MORRENE ROAD FROM NEAL ROAD TO ERWIN ROAD	\$1,990,000		
03/17	I-5334	5	Division Design Raleigh Let (DDRL)	I-85 FROM SOUTH OF US 15-501 TO NORTH OF US 70	\$3,000,000		
06/17	B-4943	5	Raleigh Letting (LET)	RELPLACE BRIDGE 20 OVER DIAL CREEK ON SR 1616	\$700,000	\$92,000	
08/17	U-5516	5	Raleigh Letting (LET)	FROM US 501 (ROXBORO ROAD) TO SR 1448 (LATTA ROAD) / SR 1639 (INFINITY ROAD) IN DURHAM	\$2,100,000	\$2,000,000	
	SS 4906BP 43696.1.1 43696.3.1	5	Division annual needs contract	Upgrade SR 1327 (Gregson St) at Club Blvd replace existing ped heads, add flashing yellow arrows, remove concrete island in NW quadrant, cut back islands on north and west legs Revised Scope to (1) SR 1327 (Gregson St) at Peabody Install traffic signal (2) SR 1327 (Gregson St) between I-85 NB off ramp and Entrance to Northgate Mall	\$36,000		N/A Signal work is complete at Gregson and Club. Contractor to start concrete work at Mall Entrance 9/2/14 Plans received for Gregson and Peabody. Awaiting NCRR permission to place poles in RW
	SS 4905BT 43783.1.1 43783.3.1	5	Division annual needs contract	Upgrade traffic signal to flashing yellow arrow on EB Club Blvd and Duke St. Install pedestrian accommodations on all legs of the intersection. Scope changed to add US 15-501 Bus (Roxboro St) at Pettigrew St At US 15-501 Bus/Pettigrew - reivise traffic signal to include over height Preempt, LED Blankout sign and metal poles and mast arms	\$36,000		N/A EB Club Blvd and Duke St 100% Complete waiting for final inspection Waiting for plans for Roxboro and Pettigrew Awaiting NCRR permission to place poles in RW
	Developer 36249.3312	5	Developer	Signal upgrade/modifications as part of BCBS TIA requirements	\$5,000 review cost		N/A Plans not yet reviewed
	SS-4905CF	5	Division annual needs contract	Signal at SR 1443 (Horton Rd.) at Stadium Dr.	\$100,000	\$16,000	Need plans
	SS-4905CH	5	Division annual needs contract	Close crossover on US 15-501 at SR 1333 and install signal at SR 1116 (Garrett Rd) at Falls Mountain Way.	\$200,000	\$16,000	Island Plans Needed Signal Plans in Hand
	SS-4905CK	5	Division annual needs contract	Flashing Yellow Arrow and pedestrian accommodations for 8 signals along US 501 Bus.			Need plans

NCDOT DIV 7 ACTIVE PROJECTS LOCATED IN DCHCMPO

Technical Committee 9/24/2014 Attachment 10

TIP/WBS #	Description	Let Date	Completion Date	Contractor	Status	Cost	Comments
EB-4411E 36333.3.FD5	Install 2 ft. paved shoulders (including resurfacing) along both sides of NC 86 between Whitfield Rd. and US 70 Business in Orange County	2/20/2014, Available 5/12/14	Anticipate 10/15/2014	Carolina Sunrock, LLC	70% Complete 67% Schedule	\$500,000	Bike/Ped enhancement
ER-2971G 3607.3.13	Construct sidewalks on SR 1900 (Mason Farm Road) from US 15/501 (Fordham Blvd.) to Highland Woods Road in Chapel Hill .	9/8/14	11/1/14		Project bid opening Sept 8th.	\$30,000	Division Enhancement; MA w/TOCH, LGA
I-5312 47033.3.FS1	Mill & Resurface I-85 from east of I-40 to the Durham County Line.	10/15/2013	9/8/2014	Carolina Sunrock, LLC	100% Complete	\$2,281,289	TIP
SS-4907AZ 43987.1.FR1 43987.3.1 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.	Pending coordination with Town of Hillsborough and SHPO	Pending coordination with Town of Hillsborough and SHPO		Project being design by Summit Engineering, waiting on cost estimate	\$15,000 PE \$47,000 CON \$245,000 CON \$120,000 CON	Spot Safety- State (ADA curb ramp). Combine with Small Construction on west side of NC86 and Contingency for bus pullout. Local Administered project with the Town of Hillsborough
SS-4907V 42423.1 42423.2 42423.3	Four-way stop installation at intersection of SR 1005 (Old Greensboro Rd.) @ SR 1951 (White Cross Rd.)	Pending results from re-design and scope	Pending results from re-design and scope	State Forces		\$33,000 PE \$15,000 ROW \$150,000 CON	State Spot Safety, Need Public Outreach (letter).
SS-4907BE 44194.3.1	SR 1010 (Franklin Street) between Boundary Street and Deming Road in Chapel Hill . Initial construction funds are needed for installation of curve warning signs, chevrons, pavement markings, snowplowable markers, and sign post delineators.	Fall 2014	Fall 2014	State Forces	Neighborhood outreach pending	\$12,800	State Spot Safety
U-0624 C203175 34762.3.4	Widening , Grading, Drainage, Paving & Signals on NC 86 (S. Columbia St.) From SR -1906 (Purefoy Rd) to SR 1902 (Manning Dr) in Chapel Hill .	10/16/2012	Anticipate 1/1/2015	Triangle Grading & Paving, Inc.	90%Complete 100% Schedule	\$4,565,147	TIP

U-2803 C203028 34860.3.1	Widening of SR 1919 (Smith Level Road) from Rock Haven Road to Bridge # 88 over Morgan Creek in Carrboro .	12/18/2012	5/14/2015	Yates Construction, Inc.	Technical Committee 45% Complete 80% Schedule	9/24/2014 Attachment 10 \$4,946,197	TIP, Utility conflicts cleared, roadwork has resume
U-3306 C202266 34913.3.ST1	Grading, Drainage, Paving, Signals, Curb, and Gutter and Retaining Walls on SR 1733 (Weaver Dairy Road) From NC 86 to Old Sterling Road in Chapel Hill .	7/20/2010		Yates Construction, Inc.	100% Complete, Final acceptance pending	\$9,584,886	ARRA / TIP
W-5207E 45337.3.FD5	Installation of a roundabout on SR 1734 (Erwin Rd.) and SR 1791 (Mt. Moriah Rd.) near Chapel Hill	10/17/2013	2/5/2015	Triangle Grading & Paving, Inc.	100% Complete 100% Schedule	\$640,000	High Hazard Safety
W-5207I 45337.1.9 45337.2.FD9 45337.3.FD9	SR 1005 (Jones Ferry Road) and Davie Street in Carrboro. Sidewalks, intersection improvements, traffic signal, median on Jones Ferry with bike lanes.	11/1/2014	Fall 2015		R/W acquisition underway (20% Complete), Availability in Spring 2015.	\$50,000 PE \$75,000 R/W \$600,000 CON	High Hazard Safety, Need more PE funding
W-5318 46141.3.1	Remedial paving on NC 86 from NC 57 to Caswell Co. line.	8/7/2014	11/15/14	Carolina Sunrock, LLC	Available 9/2/14	\$84,754	High Hazard Safety
44229	Signal modification, enlarge radius and construct taper for right turn lane at the intersection of US 70 onto SR 1567 (Mt Hermon Church Rd)		Fall 2014	State Forces	90% complete, Traffic pole relocated, radius improvements under construction.	\$100,000	Small Construction
NCDOT DIV 7 FUTURE PROJECTS LOCATED IN DCHCMPO							
TIP/WBS #	Description	Let Date	Completion Date		Status	Cost	Comments
SS-4907BF 44271.1.FD1	Preliminary engineering for intersection improvements at SR 1567 (Pleasant Green Road) and SR 1569 (Cole Mill Road). Radius Improvements	TBD	TBD	State Forces	Location & Surveys pending	\$15,000	State Spot Safety
SS-4907BG 44270.1.FD1	Preliminary engineering for intersection improvements at SR 1710 (Old NC 10) at SR 1713 (Mount Hermon Church Road). All way stop	TBD	TBD		Location & Surveys pending	\$3,000	State Spot Safety

DIV 7 LOCAL GOVERNMENT AGENCY PROJECTS IN DCHCMPO

TIP/WBS #	Description	Let/Start Date	Completion Date	Status	Cost	Comments
C-5184 46243.3.1	Riverwalk Trail Phase III - Construct a paved off-road trail along Eno River connecting River Park, Gold Park and the Occoneechee Mountain State Natural Area and construct sidewalk to provide pedestrian and bicycle connections to the Greenway in Hillsborough	Fall 2014	TBD	Design in progress, R/W authorization pending	\$450,000 CON	CMAQ \$360,000 Fed \$90,000 Local
C-5179 46240.1.F1 46240.2.F1 46240.3.F1	Design & construction of sidewalk and bicycle lanes along Estes Drive from Martin Luther King Jr. Blvd to Caswell Drive and the construction of a multi-use path on the north side of Estes Drive from Martin Luther King Jr. Blvd through the Estes Drive Elementary site to Elliot Road in Chapel Hill .	TBD	TBD	Design in progress	\$220,000 PE \$2,337,500 CON	STP-DA - PE \$176,000 Fed \$44,000 Local CMAQ -R/W, CONS. \$1,870,000 Fed \$467,500 Local MA w/TOCH
EB-4707A (Orange) 38664.3.FD1	Bicycle improvements(Bikeway and signals) on Durham/ Chapel Hill (SR 1838/SR 2220)from SR 1116 (Garrett Road) in Durham County to US 15-501 in Orange County EB-4707B (Durham)	EB-4707A(C Hill) FFY15 EB-4707B(D5DRL) FFY15	TBD	Design in progress, R/W -FFY 2015	\$2,950,000 CON	Enhancement - Bike and Ped., STP-DA
EL-4828 / 40245.1.1 40245.3.1	Design & construction of multi-use pedestrian /bicycle path along Morgan Creek from Smith Level Road to the Weatherhill Pointe neighborhood & construct a multi-use pedestrian /bicycle path along Morgan Creek from Smith Level road west to the Berryhill Neighborhood in Carrboro	Spring 2015	TBD	Design in progress	\$316,610 PE \$468,000 CON	STP-DA; MA w/TOC
SR-5001AR 40924.3.43	Construct 320' of 5' sidewalk on Culbreth Road between Cobble Ridge Rd. in Chapel Hill and Rossburn Rd. in Chapel Hill	4/12/12	9/30/13	Construction complete; Final M&T closeout pending	\$50,000 SRTS \$108,000 STPDA	SRTS/STP-DA; MA w/TOCH
U-4726DC 36268.3.4	Wilson Park Multi-Use Path in Carrboro	6/7/12	11/26/12	Construction complete; Final review complete, M&T closeout pending	\$221,399	STP-DA; MA w/TOC
U-4726DD 36268.1.25 36268.3.F25	Construct sidewalk on Rogers Road from Homestead Road to Meadow Run Ct. in Carrboro	TBD	TBD	Design in progress	\$102,278 PE \$542,600 CON	STP-DA; MA w/TOC
U-4726DE 36268.1.26 36268.3.26	Construct Bolin Creek Multi-use Path from Homestead Road to Chapel Hill High School in Carrboro (replaces EL-4994)	Fall 2014	TBD	Design complete, Construction authorization pending	\$130,486 PE \$737,500 CON	STP-DA; MA w/TOC
U-4726DF 36268.1.27 36268.3.27	Bicycle detection at Signalized Intersections in Carrboro	12/31/14	TBD	R/W certification pending. District office providing assistance to municipality and R/W research	\$18,525 PE \$30,000 CON	STP-DA; MA w/TOC

DIV 7 LOCAL GOVERNMENT AGENCY PROJECTS IN DCHCMPO						
TIP/WBS #	Description	Let/Start Date	Completion Date	Status	Cost	Comments
U-4726IF 36268.1.21 36268.3.21	Design and install stairs from the sidewalk on the north side of Franklin St. to the Bolin Creek Trail in Chapel Hill	TBD	TBD	Supplemental agreement to remove construction; Town to pay for construction	\$25,000 PE \$115,000 CON	STP-DA; MA w/TOCH
U-4726IG 36268.3.24	Morgan Creek Trail Phase 2 - Construct 10' wide greenway from existing Fan Branch Trail near Culbreth Rd. and US 15/501 to Phase 1 in Chapel Hill	9/12/12	11/1/2013, Anticipated 6/1/14	100% Complete. Project record review pending.	\$1,492,500 CON	STP-DA; MA w/TOCH
U-5543 50109.1.F1	Design for variable message signs for traffic management on major corridors in Chapel Hill	TBD	TBD	MA execution pending	\$93,750 PE	STP-DA; MA w/TOCH

NCDOT DIVISION 8 - TIP PROJECTS IN DCHCMPO							
TIP/WBS # or Contract #	Description	Let Date	Completion Date	Status	Cost	Contractor	Comments
W-5208G/ 4 5338.3.7	SR-1717 (Jack Bennett Rd), Chatham Co. Realign horizontal curve	Jan 15	TBD	R/W secured.	Est. Cost \$803,000		TENTATIVE SCHEDULE - Duke Energy Progress currently relocating utilities. Construction funds were requested 3/11/14 and have been approved. Agreement has been executed.
C-5176	American Tobacco Trail (Chatham Co.) - New Hope Church Road Trail Head Park & Ride Lot. Accomodations for 100 spaces including parking for Horse Trailers, Restroom facilities, picnic area and public art.	Jan 2014	June 30, 2015	Final project cost estimate came in higher than original cost estimate. Bids for project have been resubmitted	Orig Est. Cost \$1.2M		
DIVISION 8 RESURFACING PROJECTS							
TIP/WBS # or Contract #	Description	Let Date	Completion Date	Status	Cost	Contractor	Comments
C203521	SR 1816 Edwards Ridge Road from end of State maintenance to SR 1008 Mt. Carmel Church Road (0.64 mi). <i>Contract includes resurfacing a total of 8 sections of secondary roads.</i>	March 2014	November 2014	Contract Awarded April 2014 Availability Date 5/1/2014	Contract Amt. \$1,209,922	S.T. Wooten	Milling, resurfacing and shoulder reconstruction
C203521	SR 1727 Whippoorwill Lane from SR 1008 Mt. Caramel Road to SR 1726 Old Farrington Road (0.73 mi). <i>Contract includes resurfacing a total of 8 sections of secondary roads.</i>	March 2014	November 2014	Contract Awarded April 2014 Availability Date 5/1/2014	Contract Amt. \$1,209,922	S.T. Wooten	Milling, resurfacing and shoulder reconstruction
C203570	SR 1008 Farrington Road Resurfacing from US 64 to Orange County Line (9.3 mi). <i>Contract includes resurfacing 4 sections of US 64 and resurfacing a total of 5 sections of secondary roads.</i>	June 2014	June 2015	Contract Awarded July 2014 Availability Date 7/28/2014	Contract Amt. \$3,740,907	S.T. Wooten	Milling, resurfacing and shoulder reconstruction