

**Draft Recommended Financially Constrained
2025 Long-Range Transportation Plan**

**Durham-Chapel Hill-Carrboro
Metropolitan Planning Organization**

November 6, 2002

Background

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO) is developing the 2025 Long-Range Transportation Plan (2025 LRTP) for the municipalities and counties in the MPO planning area. The 2025 LRTP is intended to identify a range of transportation improvements to address transportation needs, deficiencies, and goals over the next 20 years. After evaluating many options for the plan that contained different sets of transportation improvement projects, the Technical Advisory Committee (TAC) of the DCHC MPO selected a preferred option. The preferred option was published to receive public comments, and a public hearing was conducted on October 17, 2002.

Based on the public comments, the TAC selected a financially constrained preferred option (i.e., forecasted revenues cover project costs) for inclusion in the draft recommended 2025 LRTP that is to be released for a 42-day public comment period. Public involvement activities during this period are to include a public hearing, workshops at several locations throughout the planning area, and access for the public to submit comments in several different media formats. For more information on these activities, visit the MPO Web site, www.dchc-mpo.org, or telephone the City of Durham, Transportation Division, at (919) 560-4366.

Comments may be submitted through the following media formats:

- E-mail – fnwoko@ci.durham.nc.us
- Web site -- www.dchc-mpo.org
- Telephone – Felix Nwoko, City of Durham, Transportation Planner, (919) 560-4366, x-296
- Mail -- City of Durham, Transportation Division, 101 City Hall Plaza, Durham, NC 27701

Purpose

This document is the plan portion of the financially constrained draft recommended 2025 LRTP. This portion contains the essential elements of the plan, including:

- Balancing of costs and revenues – the total costs for groups of projects are matched with eligible revenue sources;
- Estimated revenue sources and amounts based on current revenues, and some options to increase revenues from non-traditional sources;
- A description and estimated costs of highway, transit, fixed-guideway, and bicycle and pedestrian transportation projects.

Besides the essential elements of the plan, this document includes:

- A schedule for completing the air quality conformity process and the 2025 Long-Range Transportation Plan (LRTP);
- A report outline – these essential plan elements will be presented in a full report to provide the context for plan.

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Section 1.1 -- Cost Estimates

The table in this section, on page 2, summarizes the costs for five categories of proposed projects, including: 1) highway; 2) transit and fixed guideway; 3) non motorized transportation (e.g., bicycle projects); 4) Transportation Demand Management (TDM), and Intelligent Transportation Systems (ITS)/Transportation System Management (TSM) projects. The total cost estimate for the draft recommended 2025 LRTP is **\$6,409,882,440**.

Sections 2 through 5 provide descriptions and costs for the individual highway, transit, fixed guideway, and bicycle (non motorized transportation) projects.

**DCHC Draft Recommended 2025 Long-Range Transportation Plan (LRTP)
Cost Estimates - (2002 Dollars)**

No.	Cost Summary	Amount (2002 dollars)
	<u>Highway</u>	
1.1	Improvement	\$2,662,858,500
1.2	Maintenance	\$558,886,760
	Total Highway Cost Estimate	\$3,221,745,260
	<u>Bus Transit</u>	
2.1.1	Bus Transit Capital	\$448,587,230
2.1.2	Bus Transit Operating & Maintenance	\$1,106,904,000
	Total Bus Transit Cost Estimate	\$1,555,491,230
	<u>Fixed Guideway</u>	
2.2.1	Fixed Guideway Capital	\$810,671,600
2.2.2	Fixed Guideway Operating & Maintenance	\$613,875,350
	Total Fixed Guideway Cost Estimate	\$1,424,546,950
	Total Bus Transit and Fixed Guideway Cost Estimate	\$2,980,038,180
	<u>Non Motorized Transportation</u>	
3.1	Bike Facilities	\$91,724,000
3.2	Sidewalks & Pedestrian Walkways	\$18,700,000
	Total Non Motorized Transportation	\$110,424,000
4	<u>TDM</u>	\$45,675,000
5	<u>ITS/TSM</u>	\$52,000,000
	TOTAL COST ESTIMATES	\$6,409,882,440

Section 1.2 -- LRTP Revenue Forecast – Traditional Sources

The table in this section, starting on page 4, presents the revenue estimates for five principal funding types:

- Highway/Enhancement – This estimate used a projection of historical highway construction and maintenance revenue, and Capital Improvement Program (CIP) data starting with the year 1989. There is one exception – the state highway trust fund (loop funds) estimate is based on the cost of proposed projects in the draft 2025 LRTP that may be eligible for trust funding. The total highway/CMAQ/Enhancement revenue is estimated to be \$3,276,259,290.

Although the bulk of this funding is destined to highway related projects, the MPO can “flex,” or transfer, some federal funds, such as the Surface Transportation Program (STP) and Congestion Mitigation and Air Quality (CMAQ), to other transportation projects such as transit.

- Bus Transit Capital – This estimate used a projection of historical revenue data, starting with the year 1989, for fixed-route and paratransit services. The total transit capital revenue is estimated to be \$372,244,160
- Bus Transit Operating and Maintenance – This estimate used a projection of historical revenue data, starting with the year 1989, for fixed-route and paratransit services. The total transit operating and maintenance is estimated to be \$501,812,130
- Fixed Guideway Capital – These estimates are drawn from the feasibility, major investment, and other studies that have been conducted in the planning process for these projects. The total fixed guideway capital is estimated to be \$759,650,000
- Fixed Guideway Operating and Maintenance – These estimates are drawn from the feasibility, major investment, and other studies that have been conducted in the planning process for these projects. The total fixed guideway operating and maintenance is estimated to be \$552,745,280

The total estimated transit revenue is **\$2,186,451,570**, thereby, the total estimated revenue from all funding sources (traditional sources from 2003 to 2025) is **\$5,462,710,860**

**DCHC Draft Recommended 2025 Long-Range Transportation Plan (LRTP)
Revenue Forecast - Traditional Sources (2002 Dollars)**

	Funding Sources / Types	Amount (2002 dollars)
	Highway	
1.1	Federal /State (NHS, STP, NCDOT match, etc)	\$2,243,293,410
1.2	State High Trust Fund (loop funds)	\$637,908,250
1.3	Local (CIP)	\$319,846,430
1.4	Private	\$75,211,200
	Total Highway	\$3,276,259,290
	Bus Transit	
	<u>Bus Transit -- Capital</u>	
2.11	Federal FTA	\$297,795,320
2.12	State - NCDOT	\$18,612,210
2.13	Local	\$55,836,630
	Total bus transit -- capital	\$372,244,160
	<u>Bus Transit -- Operating & Maintenance (O & M)</u>	
2.14	Federal FTA	\$58,021,990
2.15	State - NCDOT	\$98,572,680
2.16	Local	\$227,845,430
2.17	Fare	\$117,372,030
	Total bus transit operating & maintenance	\$501,812,130
	Total Bus Transit	\$874,056,290
	Fixed Guideway Transit (portion of TTA phase 1, US 15-501, NC 54)	
	<u>Fixed Guideway Transit -- Capital</u>	
2.21	Federal FTA	\$431,076,550
2.22	State - NCDOT	\$215,538,280
2.23	Local	\$113,035,170
	Total fixed guideway transit -- capital	\$759,650,000
	<u>Fixed Guideway -- Operating & Maintenance (O & M)</u>	
2.24	Federal FTA	\$87,604,080
2.25	State - NCDOT	\$139,198,420
2.26	Local	\$195,628,490

	Funding Sources / Types	Amount (2002 dollars)
2.27	Fare	\$130,314,290
	Total fixed guideway -- O & M	\$552,745,280
	Total fixed guideway Revenue	\$1,312,395,280
	Total Revenue for 2025 LRTP	\$5,462,710,860

Section 1.3 -- Non Traditional Revenue Sources

Shortfall (without non traditional revenue sources)

The first set of figures in this table, on page 8, demonstrates that the total estimated costs exceed the total estimated revenue by \$947,171,580. A comparison between highway and transit costs and revenues sources presented in the preceding tables indicates that most of this funding shortfall would occur in the bus transit and fixed guideway projects.

Suggested Non Traditional Revenue Sources

In order to find additional sources of revenue to address this shortfall, three non-traditional revenue sources are suggested, including: 1) motor fuel tax; 2) vehicle personal property tax increase; and, 3) vehicle registration. These sources are assumed to begin generating revenue in the year 2004. The total revenue from these non-traditional sources is estimated to be \$687,506,545 over the 22-year period (2004 to 2025), leaving an estimated shortfall of approximately \$259,665,035, or 4% of the total costs.

Fiscally Constrained Plan

Given the long-term planning horizon of this plan (23 years, or 2003 to 2025), and the large cost and revenue sums (i.e., approximately \$6.4 billion), technical staff believe that federal and state administrators will consider the estimated shortfall to be within the tolerance level of a fiscally constrained plan.

**DCHC 2025 Long-Range Transportation Plan (LRTP)
Revenue Forecast - Non Traditional Sources (2002 Dollars)**

Comparison of Costs and Traditional Revenue Sources		2002 Dollars
1	Total Transportation Cost Estimates	\$6,409,882,440
2	Total Transportation Revenue Forecast (traditional sources)	\$5,462,710,860
	Shortfall (using only traditional revenue sources)	-\$947,171,580
Non Traditional Revenue Sources		
A	Motor (Gasoline) Fuel Tax - (22 years) 5% on retail gas cost (\$1.40 per gallon)	\$423,391,365
B	Vehicle Personal Property Tax Increase (22 years) 10 cents tax per \$100 of vehicle value	\$69,057,600
C	Vehicle Registration - 20/veh tax (22 years) additional \$20/vehicle/year	\$195,057,580
	Total Non Traditional Revenue Sources	\$687,506,545
	Total Revenue (traditional & non-traditional sources)	\$6,150,217,405
	Shortfall (using traditional & non traditional revenue sources)	-\$259,665,035

Section 2 – Highway Plan

Background and Total Costs

This section presents the highway plan for the draft recommended 2025 LRTP, listed in alphabetical order, starting on page 11. The first table is the complete set of projects, with a total estimated cost of \$2,671,535,007. The second table is a subset of the first table – it lists projects from the first table that may be eligible for Highway Trust Funding, with a total estimated cost of \$637,908,248. It is important to note that the total estimated costs for this second table, \$637,908,248, are included in the total estimated costs for the first table.

It is important to note that the projects are listed in alphabetical order. Thus, the project number does not denote any type of priority. Project funding and construction priority are products of a separate processes called the Transportation Improvement Plan (TIP). The MPO and North Carolina Department of Transportation (NCDOT) cooperatively produce the bi-annual TIP, which has a 7-year funding horizon.

Page 14 is a map depicting the highway projects.

Key Information

Each row in this listing is a separate highway project. The key information for each project is presented by columns, and includes the following:

- Project No. – This number facilitates the identification of projects in the long-range plan. An asterisks (*) denotes projects that have been added or deleted since this listing was first published as the non-fiscally constrained Preferred Option. Retaining original project numbers helps to reduce confusion as committee members and the public go through the various iterations of this listing.
- Project – The project name is the name of the road. A blank project name that follows a project no., indicates that a project from the non-fiscally constrained Preferred Option, i.e., an earlier version of the plan, has been removed.
- Project Limits – This usually identifies the name of the two road intersections between which the project is to be constructed.
- Existing Cross-Section – This commonly identifies the number and type (e.g., freeway, divided) of current lanes. “New” indicates new road alignment -- in other words, there is no existing road.
- Proposed Cross-Section -- This commonly identifies the number and type (e.g., freeway, divided) of lanes proposed in the plan.
- TIP No. – Some projects are completely or partially funded in the current Transportation Improvement Plan (TIP). If so, the TIP identification number is shown.
- County – This identifies the county location of the project.
- Length – This shows the length, in miles, of the project roadway.

- Total Cost – The total costs includes those estimated costs to be incurred between October 1, 2002 and September 30, 2025. The costs for existing projects, such as those in the current TIP, that are incurred before October 1, 2002, are not included.
- Proposed Improvement – Most projects are a widening (e.g., two-lanes widened to four-lanes), or new roadway.
- Functional Classification – This indicates the type of road in a hierarchy of road classification. This classification hierarchy, from top to bottom, includes: Interstate; Freeway; Principal Arterial; Minor Arterial; and, Urban Collector. As the classification moves from top to bottom, the road class increasingly serves fewer “through” trips and more local trips (i.e., trips with a local origin and destination).
- Regionally Significant – These are projects that provide access to and from the region, or to major destinations in the region. They are usually classified as a Primary Arterial, or higher, and are included in the regional travel demand model. Fixed guideway transit facilities are considered regionally significant.
- Air Quality Year – This indicates which year the project will be open to traffic for purposes of air quality modeling.
- Funding Source – The proposed funding sources for most projects are federal and/or state programs. In some cases, the local government or a private source is identified.

How are Highway Costs Computed

Based on decades of making road improvements, the NCDOT has developed a table that estimates the costs per unit (i.e., per mile) for making a variety of roads improvements. The table takes into account many characteristics of the project, including: number and type of lanes to be added; interchanges; intersections; amount and cost of additional right-of-way; Wetland Mitigation; structural requirements; turn lanes; shoulder sections; and, curb and gutter sections. The unit costs of two projects may be very different even though the number and type of additional lanes is the same because many characteristics can vary between two projects, and these characteristics can have a significant affect on costs.

Additional Information on Cross-Sections

This table provides only a general description of the proposed project cross-sections. Roadway-cross sections are typically not specified in long-range plans because many cross-section details are not identified until the project moves into the mid-term project development and environmental analysis stages. However, the reader may view more detailed depictions of potential cross-sections in the “Typical Roadway Cross-Sections,” starting on page 15.

**Draft Recommended DCHC 2025 Long-Range Transportation Plan
Highway Plan**

No.	Project	Project Limits	Existing X-Section	Proposed X-Section	TIP No.	County	length (miles)	Total Cost	Proposed Improvement	Functional Classification	Region Significant?	Air Quality year	Funding Source
1	Alexander Dr	Cornwallis Rd to Miami Blvd	2-lane	4-lane divided	U-3309	Durham	1.70	\$6,168,521	Widening	Principal Arterial	Yes	2015	Fed/State
2	Alexander Dr	NC 54 to NC 55	2-lane	4-lane divided		Durham	2.41	\$8,394,897	Widening	Principal Arterial	Yes	2015	Fed/State/Priv.
3	Alexander Dr	NC 54 to Cornwallis Rd	2-lane	4-lane divided		Durham	3.45	\$12,333,750	Widening	Principal Arterial	Yes	2005	Fed/State
4	Alston Ave Ext	Holloway St to Old Oxford/Roxoboro	new	3-lane	CIP/Bond	Durham	4.26	\$17,904,930	New	Minor Arterial	No	2025	Local
5	Briggs Ave Ext	So-Hi Dr to Riddle Rd	new	2-lane	U-2831	Durham	1.60	\$9,987,600	New	Urban Collector	No	2015	State
6	Carver Street Ext	Armfield St to Old Oxford Rd	new	3-lane		Durham	0.73	\$3,092,272	New	Urban Collector	No	2005	Local
*	Churton Connector	Old NC 86 to NC 86 (Between I-85 & I-40)	new	4-lane divided		Orange	0.57	\$4,381,353	New	Minor Arterial	Yes	2015	Private
7	Cornwallis Rd	MLK to Alexander Dr	new	4-lane divided		Durham	1.23	\$4,557,150	Widening	Principal Arterial	Yes	2015	Fed/State
8	Cornwallis Rd Ext	Miami Blvd to Page Rd	new	2-lane		Durham	1.89	\$7,487,311	New	Principal Arterial	Yes	2025	Fed/State
9	Davis Dr	NC 54 to County Line	2-lane	4-lane divided	U-4026	Durham	1.93	\$12,404,678	Widening	Principal Arterial	Yes	2015	Fed/State
10	East End Connector	NC 147 to US 70 E	new	6-lane frwy	U-71	Durham	2.50	\$99,941,775	New	Freeway	Yes	2015	Trust Fund
11	Elizabeth Brady Rd Ext	US 70 Business to St Mary's Rd	new	4-lane divided	U-3808	Orange	1.32	\$11,313,720	New	Minor Arterial	Yes	2015	Fed/State
12	Estes Dr	Greensboro Rd to NC 86	2-lane	3-lane	U-2909	Orange	1.70	\$6,599,400	Widening	Minor Arterial	Yes	2015	Fed/State
13	Farrington Mill Rd	Jack Bennett Rd to Durham Co line	2-lane	4-lane divided		Chatham	2.42	\$19,332,801	Widening	Minor Arterial	Yes	2025	Fed/State
14	Farrington Mill Rd	Barbee Chapel Rd to Chatham Co line	2-lane	4-lane divided		Durham	2.04	\$16,272,366	Widening	Minor Arterial	Yes	2025	Fed/State
15	Farrington Rd	Barbee Chapel Rd to Stagecoach Rd	2-lane	4-lane divided		Durham	3.49	\$26,901,832	Widening	Minor Arterial	Yes	2025	Fed/State
16	Fayetteville Rd	Woodcroft Pkwy to South Point	2-lane	4-lane divided	CIP/Bond	Durham	1.63	\$11,304,783	Widening	Principal Arterial	Yes	2005	Private/local
17	Fayetteville Rd	Woodcroft Pkwy to Cornwallis Rd	2-lane	4-lane divided		Durham	2.31	\$15,992,130	Widening	Principal Arterial	Yes	2015	Local
18	Garrett Rd	NC 751 to US 15-501	2-lane	3-lane		Durham	3.12	\$5,433,884	Widening	Principal Arterial	Yes	2015	Fed/State
19	Garrett Rd/Chapel Hill Rd	Intersection Improvements		Upgrade	U-3105	Durham	1.00	\$0	Widening	Principal Arterial	Yes	2005	Fed/State
20a	Glover Rd	Glover Rd/NC 147 interchange; 147 to Angiers	2-lane	Interchg/4-lane divided		Durham	1.94	\$41,490,261	Widen/inte	Minor Arterial	Yes	2015	Fed/State/Priv.
20b	Glover Rd	Angiers to US 70	new	4-lane divided		Durham	1.37	\$10,601,938	New	Minor Arterial	Yes	2015	Fed/State/Priv.
21	Guess Rd	Carver St to Umstead Rd	2-lane	5-lane/4-lane divided	U-2102	Durham	3.37	\$5,054,300	Widening	Principal Arterial	Yes	2005	Fed/State
22a	Hillandale Rd	I-85 to Carver St.	2-lane	4-lane divided	U-3804	Durham	0.70	\$6,300,000	Widening	Principal Arterial	Yes	2015	Fed/State
22b	Hillandale Rd	Carver to Horton Rd	2-lane	4-lane divided		Durham	1.53	\$13,759,091	Widening	Principal Arterial	Yes	2015	Fed/State
23	Hillandale Rd Ext	Horton Rd to Guess Rd	2-lane	4-lane divided		Durham	0.88	\$7,325,745	New	Principal Arterial	Yes	2025	Fed/State
24	Hillsborough Rd/Old Fayetteville	Lorraine St to Old Fayetteville/NC 54	2-lane	2-lane (36-ft curb/gutter)	U-3100	Orange	1.90	\$5,502,400	Widening	Principal Arterial	Yes	2015	State
25	Holloway Street	US 70 to east of Junction Rd	2-lane	5-lane	U-4010	Durham	0.30	\$2,960,100	Widening	Principal Arterial	Yes	2005	Fed/State
26	Homestead Rd	High School Rd to NC 86	2-lane	3-lane	U-2805	Orange	1.70	\$4,920,146	Widening	Principal Arterial	Yes	2015	Fed/State
27	Homestead Rd	Old NC 86 to High School Rd	2-lane	3-lane		Orange	1.47	\$4,256,608	Widening	Principal Arterial	Yes	2015	Fed/State
28	Hopson-Page Rd Ext	NC 54 to Page Rd	new	5-lane	U-3853	Durham	0.50	\$1,847,500	New	Urban Collector	Yes	2005	State/Private
*	Hopson Rd. realignment (RTP)	Louis Stephens Dr to NC 55	2-lane	2-lane	U-4410	Durham		\$1,910,000	Realign	Urban Collector	No	2015	State/Private
29	Horace Williams Rd Network	Horace Williams Campus	new	2-lane		Orange	2.16	\$17,323,932	New	Urban Collector	No	2015	State/Private
30	I-40	NC 147 to Wake Co line	6-lane frwy	8-lane frwy	I-2204	Durham	3.43	\$10,036,180	Widening	Interstate	Yes	2015	Fed/State
31	I-40	US 15-501 to NC 147	4-lane frwy	6-lane frwy	I-3306	Durham	9.28	\$44,608,960	Widening	Interstate	Yes	2005	Fed/State
32	I-40	I-85 to US 15-501	4-lane frwy	6-lane frwy	I-3306	Orange	7.50	\$36,180,000	Widening	Interstate	Yes	2025	Fed/State
33	I-40	County Line to NC 86	new	HOV lane		Durham	16.63	\$319,758,900	New	Interstate	Yes	2025	Fed/State
*	I-540 (Durham portion)	Durham CO. Portion (I-40/I540)	4-lane frwy	6-lane frwy	R-2000	Durham	0.69	\$13,268,503	New	Interstate	Yes	2015	Fed/State
34	I-85	US 15-501 Bypass N to US 70	4-lane frwy	8-lane frwy	I-306	Durham	9.70	\$92,282,000	Widening	Interstate	Yes	2015	Fed/State
35	I-85	I-40 to the Durham Co line	4-lane frwy	6-lane frwy	I-305	Orange	7.35	\$81,225,291	Widening	Interstate	Yes	2025	Fed/State
36	I-85	US 70 to Red Mill Rd.	4-lane frwy	6-lane frwy		Durham	5.68	\$62,771,277	Widening	Interstate	Yes	2025	Trust Fund
37*	part of I-85 (#34) I-306												
38	Infinity Rd	Roxboro Rd to Snow Hill Rd	2-lane	3-lane		Durham	2.77	\$8,507,640	Widening	Minor Arterial	No	2015	Fed/State
39	Latta Rd	Guess Rd to Roxboro Rd	2-lane	3-lane		Durham	1.20	\$3,693,182	Widening	Minor Arterial	No	2015	Fed/State
*	Louis Stephens Drive (RTP)	Hopson Rd to County Line	new	2-lane	U-4410	Durham		\$1,450,000		Minor Arterial	Yes	2015	State/Private

**Draft Recommended DCHC 2025 Long-Range Transportation Plan
Highway Plan**

No.	Project	Project Limits	Existing X-Section	Proposed X-Section	TIP No.	County	length (miles)	Total Cost	Proposed Improvement	Functional Classification	Region Significant?	Air Quality year	Funding Source
40	Mason Farm Rd	Near S Columbia St	2-lane	2-lane		Orange	1.10	\$0	Realign	Urban Collector	No	2015	Fed/State
41	Miami Blvd.	Methodist Dr to Angier Ave	2-lane	5-lane	U-4011	Durham	0.72	\$1,850,000	Widening	Minor Arterial	Yes	2015	Fed/State
42	Midland Terrace	NC 98 to Geer St	new	2-lane		Durham	1.80	\$13,788,464	New	Minor Arterial	No	2015	Fed/State
43	MLK Parkway	Old Chapel Hill Rd to NC 55	2-lane/new	4-lane divided	CIP/Bond	Durham	2.23	\$11,485,334	New	Principal Arterial	Yes	2015	Local
44	MLK Pkwy	NC 55 to Cornwallis Rd connector	new	4-lane divided	U-2405	Durham	0.49	\$29,311,893	New	Principal Arterial	Yes	2025	Fed/State
45	NC 147 (Triangle Parkway)	I-40 to County Line	new	6-lane frwy		Durham	3.79	\$101,471,565	New	Interstate	Yes	2015	Fed/State
46	NC 147	Alston Ave to I-40	4-lane frwy	6-lane frwy		Durham	6.69	\$33,784,500	Widening	Freeway	Yes	2025	Fed/State
47	NC 147	East End Conn to I-40	new	HOV lane		Durham	4.78	\$91,866,991	Widening	Freeway	Yes	2025	Fed/State
48	NC 54	Burning Tree to Barbee Chapel	2-lane	6-lane divided	Private	Durham	0.72	\$12,717,662	Widening	Principal Arterial	Yes	2005	Private
49	NC 54	Miami Blvd to Wake Co line	2-lane	4-lane divided		Durham	1.23	\$21,830,040	Widening	Principal Arterial	Yes	2015	Fed/State
50	NC 54	I-40 Interchange to NC 55	2-lane	4-lane divided		Durham	3.91	\$69,341,570	Widening	Principal Arterial	Yes	2015	Fed/State
51	NC 54	I-40 to Barbee Chapel Rd	2-lane	6-lane divided		Durham	1.68	\$33,208,736	Widening	Principal Arterial	Yes	2015	Fed/State
52	NC 54/US 15-501 Bypass	NC 54 to US 15-501	2-lane	6-lane divided		Orange	0.88	\$17,457,794	Widening	Principal Arterial	Yes	2015	Fed/State
53	NC 54/NC 751/Garrett Rd	Intersection		Upgrade		Durham	1.00	\$2,381,210	Widening	Principal Arterial	Yes	2015	Fed/State
54	NC 54/Page Rd	Davis Dr to Miami Blvd	2-lane	4-lane divided	R-2904	Durham	1.10	\$5,800,300	Widening	Principal Arterial	Yes	2015	Fed/State
55	NC 55	Cornwallis Rd to Wake Co.	2-lane	4-lane divided	R-2906	Durham	4.66	\$17,433,060	Widening	Principal Arterial	Yes	2015	Fed/State
56	NC 55	NC 147 to NC 98	2-lane	5-lane	U-3308	Durham	1.00	\$13,995,000	Widening	Principal Arterial	Yes	2015	Fed/State
57	NC 751	US 64 (MAB) to Durham Co line	2-lane	4-lane divided		Chatham	7.00	\$98,031,264	Widening	Principal Arterial	Yes	2025	Fed/State
58	NC 751	Chatham Co line to S Roxboro St	2-lane	4-lane divided		Durham	4.71	\$65,487,810	Widening	Principal Arterial	Yes	2025	Fed/State
59	NC 86	Homestead Rd to Whitfield Rd	2-lane	4-lane divided	U-2302	Orange	1.72	\$16,881,214	Widening	Principal Arterial	Yes	2005	Fed/State
60	NC 86	Old NC 10 to US 70 Business	2-lane	4-lane divided		Orange	1.00	\$9,814,400	Widening	Principal Arterial	Yes	2015	Fed/State
61	NC 86	US 70 Bypass to NC 57	2-lane	4-lane divided		Orange	0.42	\$4,122,048	Widening	Principal Arterial	Yes	2015	Fed/State
62	Revised Northern Durham Pkwy	I-85 N to US 70 E	new	4-lane divided	R-2631	Durham	6.40	\$80,800,000	New	Principal Arterial	Yes	2015	Trust Fund
63	Northeast Creek Pkwy	Cornwallis Rd to Ellis Rd	new	2-lane	U-2831	Durham	1.60	\$9,555,200	Widening	Urban Collector	No	2005	Private
64	Revised Northern Durham Pkwy	I-85 North to Roxboro Rd	new	4-lane divided	R-2630	Durham	5.70	\$68,884,500	New	Principal Arterial	Yes	2025	Trust Fund
65	Old NC 86	I-40 to Lafayette Dr.	2-lane	4-lane divided	Private	Orange	1.63	\$15,997,472	Widening	Minor Arterial	Yes	2005	Private
66	Old NC 86	Lafayette Dr to US 70 Business	2-lane	4-lane divided	R-2825	Orange	1.90	\$18,647,360	Widening	Minor Arterial	Yes	2015	Fed/State
67	Old Oxford Rd	Roxboro Rd to Red Mill Rd	2-lane	4-lane divided		Durham	4.82	\$72,100,721	Widening	Minor Arterial	Yes	2015	Trust Fund
68	Page Rd	I-40 to Page Rd Ext	2-lane	4-lane divided		Durham	1.00	\$4,413,050	Widening	Minor Arterial	Yes	2025	Fed/State
69	Red Mill Rd	I-85 to Old Oxford Rd	2-lane	4-lane divided		Durham	4.65	\$69,605,210	Widening	Minor Arterial	Yes	2015	Trust Fund
70	Roxboro Road (501N)	Duke Street to Goodwin Rd	4-lane divided	6-lane divided		Durham	4.17	\$82,238,856	Widening	Principal Arterial	Yes	2015	Trust Fund
71	Roxboro St	Hope Valley Farms to MLK Pkwy	2-lane	4-lane divided	Private	Durham	1.10	\$0	New	Minor Arterial	Yes	2015	Local
72	S Roxboro St	Cornwallis Rd to MLK Pkwy	2-lane	4-lane divided		Durham	1.00	\$9,324,985	Widening	Minor Arterial	Yes	2005	Local
73	Scott King Rd	Grandale Dr to NC 55	2-lane	2-lane		Durham	0.95	\$912,000	New	Urban Collector	No	2015	Fed/State
74	Smith Level Rd	Rock Haven Rd to NC 54 bypass	2-lane	4-lane divided	U-2803	Orange	0.60	\$3,375,000	Widening	Minor Arterial	No	2015	State
75	South Columbia St	NC 54 to Manning Dr.	turn lanes	2-lane	U-624	Orange	0.50	\$2,214,000	Widening	Principal Arterial	Yes	2025	Fed/State
76	South Point Pkwy	NC 751 to Fayetteville Rd	2-lane	4-lane divided	Private	Durham	1.23	\$0	Widening	Urban Collector	No	2005	Private
77	Stadium Drive Ext	Shaftsbury Dr to Kirkwood Dr	2-lane	3-lane curb & gutter	CIP/Bond	Durham	0.53	\$1,695,306	Widening	Urban Collector	No	2005	Local
78	Stagecoach Rd	Farrington Mill Rd to NC 751	2-lane	4-lane divided		Durham	1.96	\$18,071,044	Widening	Principal Arterial	No	2015	Fed/State
79	SW Durham Dr	Rizzo Conf. Dr to I-40	new	2-lane	Priv./Pub.	Durham	1.55	\$8,513,707	New	Minor Arterial	Yes	2005	Private/Public
80	SW Durham Pkwy	Farrington Rd from I-40 to Meadowmont	new	2-lane	existing	Durham	0.84	\$4,622,689	New	Minor Arterial	Yes	2005	Private/Public
81	SW Durham Pkwy	Watkins Rd to US 15-501	2-lane	5-lane	Private	Durham	1.16	\$10,668,907	Widening	Minor Arterial	Yes	2005	Private/Public
82	SW Durham Pkwy	NC 54 to Rizzo Conf. Driveway	new	4-lane divided	Private	Durham	1.27	\$0	New	Minor Arterial	Yes	2015	Private/Public
83	UNC Access to the Bypass	Manning Dr to 54/15-501 Bypass	new	4-lane divided		Orange	0.54	\$4,952,740	New	Minor Arterial	Yes	2015	Private/Public
84	US 15-501	Pittsboro Bpass (MAB) to Orange Co. line	2-lane	4-lane divided	R-942	Chatham	5.18	\$0	Widening	Urban Freeway	Yes	2015	Fed/State
85	US 15-501	Mt Moriah Rd to Garrett Rd	4-lane divided	6-lane divided	U-4012	Durham	1.25	\$11,643,750	Widening	Urban Freeway	Yes	2005	Fed/State
86	US 15-501	I-40 to Franklin St	4-lane divided	6-lane divided	U-2807	Orange	1.79	\$22,330,250	Widening	Urban Freeway	Yes	2015	Fed/State

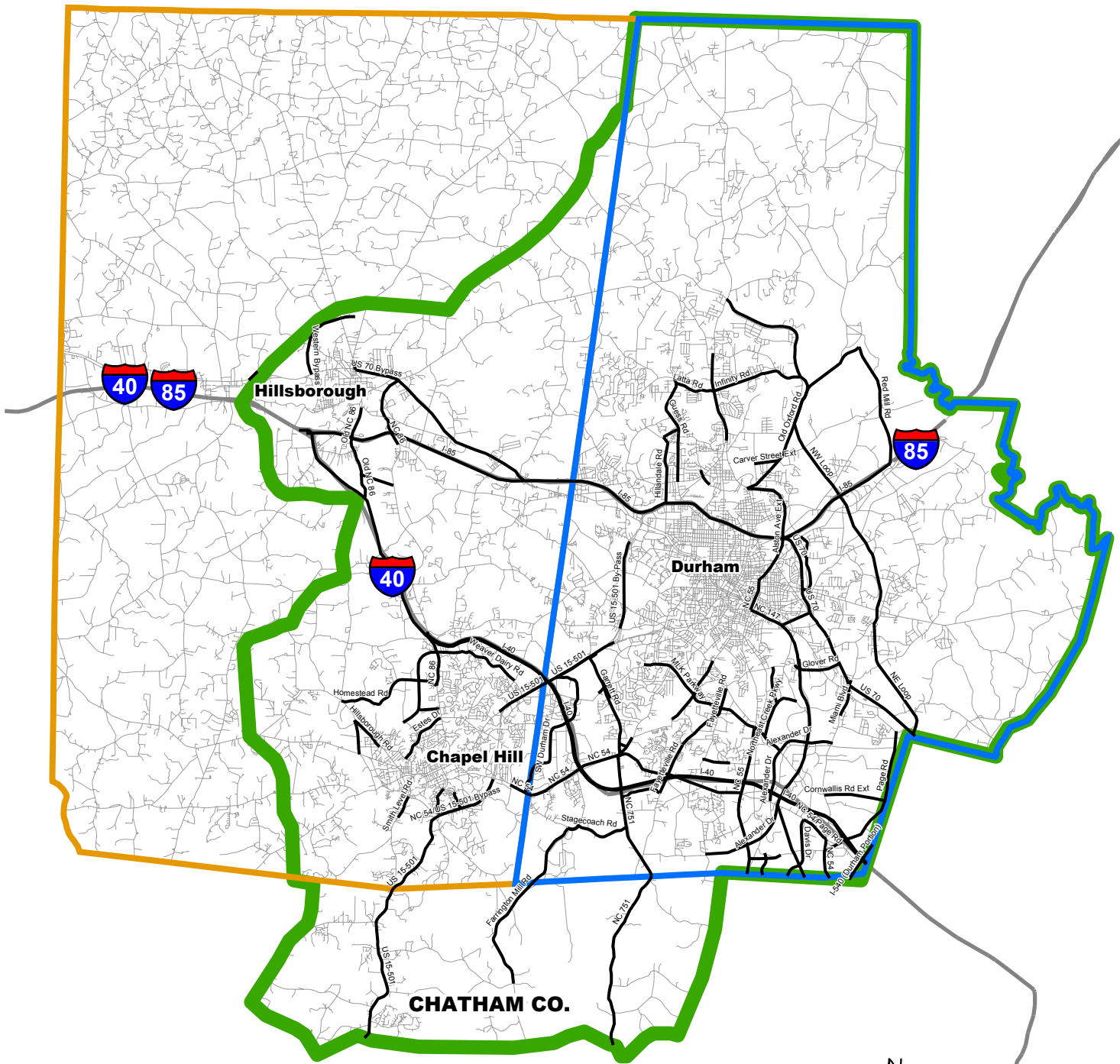
Draft Recommended DCHC 2025 Long-Range Transportation Plan Highway Plan

No.	Project	Project Limits	Existing X-Section	Proposed X-Section	TIP No.	County	length (miles)	Total Cost	Proposed Improvement	Functional Classification	Region Significant?	Air Quality year	Funding Source
87	US 15-501	Orange Co line to Chapel Hill Bypass	2-lane	4-lane divided	R-942	Orange	2.90	\$0	Widening	Urban Freeway	Yes	2005	Fed/State
88	US 15-501	Bypass to I-40 (freeway conversion)		6-lane frwy	U-2807	Durham	2.39	\$80,658,959	Widening	Urban Freeway	Yes	2015	Fed/State
89	US 15-501 Bypass	Pickett Rd to Morreene Rd	4-lane frwy	6-lane frwy		Durham	2.69	\$72,312,580	Widening	Urban Freeway	Yes	2015	Fed/State
*	US 15-501 Service Rd (SR 1126)	Relocation of existing service rd.		2-lane	U-4009	Durham	0.30	\$2,015,100	realignment	service rd	No	2005	Fed/State
90*	part of I-85 (#34) I-306												
91*	part of East End (#10) U-71												
92	US 70	Lynn Rd to Wake Co line	4-lane divided	6-lane frwy		Durham	4.11	\$101,565,909	Widening	Urban freeway	Yes	2015	Trust Fund
93	US 70 Bypass	NC 86 to I-85 (exit 170)	2-lane	4-lane divided		Orange	7.80	\$91,974,480	Widening	Urban freeway	Yes	2015	Fed/State
94	US 70/Miami Blvd/Mineral	Intersection Upgrade			U-2808	Durham	0.78	\$0	New	Major Arterial	Yes	2005	Fed/State
95	Weaver Dairy Rd	NC 86 to Erwin Rd	2-lane	5-lane/4-lane divided	U-3306	Orange	2.80	\$11,048,800	Widening	Minor Arterial	No	2015	Fed/State
96	Weaver Dairy Rd Ext	Horace Williams property to N	2-lane	4-lane divided	Private	Orange	1.23	\$4,853,580	Widening	Minor Arterial	No	2015	Fed/State
97	Western Bypass	US 70 to NC 86	new	2-lane	R-3438/Priv	Orange	2.60	\$6,097,000	New	Minor Arterial	Yes	2015	Fed/State
98	Western Bypass-portion	NC 86 to Stroud Creek Rd	new	2-lane	R-3438/Priv	Orange	0.30	\$703,500	New	Urban Collector	Yes	2005	Private
99	Woodcroft Pkwy	Barbee Rd to Carpenter-Fletch	new	2-lane divided	Private	Durham	0.84	\$0	New	Urban Collector	No	2005	Private
100	Woodcroft Pkwy Ext	Garrett Rd to Hope Valley Rd	new	2-lane divided		Durham	0.27	\$2,161,890	New	Urban Collector	No	2005	Private
	Carrboro Additions												
101	Lake Hogan Farms Rd	Eubanks Road to Tramore Drive	new	2-lane divided	Private	Orange	1.20	\$2,814,000	New	Urban Collector	No	2005	Private
102	Seawell School Connector	Lake Hogan Farms Rd to Seawell School Rd	new	2-lane divided	Private	Orange	1.70	\$3,986,500	New	Urban Collector	No	2005	Private
103	FarmHouse/Tramore Conn.	Old NC 86 to Stratford Drive	new	2-lane divided	Private	Orange	0.40	\$938,000	New	Urban Collector	No	2005	Private
104	Berryhill/Old Fayetteville Conn.	Old Fayetteville Rd to NC 54 Bypass	new	2-lane divided	Private	Orange	0.20	\$469,000	New	Urban Collector	No	2005	Private
105	BPW Club/Rock Haven Conn.	Loop at Smith Level Road	new	2-lane divided	Private	Orange	0.20	\$469,000	New	Urban Collector	No	2005	Private
	Total Highway Plan							\$2,674,206,542,065					
*	Added or deleted during plan development.												

Proposed Trust Fund Projects (Subset of the above Highway Projects)

10	East End Connector	NC 147 to US 70 E	new	6-lane frwy		Durham	2.50	\$99,941,775	New	Freeway	Yes	2015	Trust Fund
36	I-85	US 70 to Red Mill Rd.	4-lane frwy	6-lane frwy		Durham	5.68	\$62,771,277	Widening	Interstate	Yes	2025	Trust Fund
62	Revised Northern Durham Pkwy	I-85 N to US 70 E	new	4-lane divided	R-2631	Durham	6.40	\$80,800,000	New	Principal Arterial	Yes	2015	Trust Fund
64	Revised Northern Durham Pkwy	I-85 North to Roxboro Rd	new	4-lane divided	R-2630	Durham	5.70	\$68,884,500	New	Principal Arterial	Yes	2025	Trust Fund
67	Old Oxford Rd	Roxboro Rd to Red Mill Rd	2-lane	4-lane divided		Durham	4.82	\$72,100,721	Widening	Minor Arterial	Yes	2015	Trust Fund
69	Red Mill Rd	I-85 to Old Oxford Rd	2-lane	4-lane divided		Durham	4.65	\$69,605,210	Widening	Minor Arterial	Yes	2015	Trust Fund
70	Roxboro Road (501N)	Duke Street to Goodwin Rd	4-lane divided	6-lane divided		Durham	4.17	\$82,238,856	Widening	Principal Arterial	Yes	2015	Trust Fund
92	US 70	Lynn Rd to Wake Co line	4-lane frwy	6-lane frwy		Durham	4.11	\$101,565,909	Widening	Urban freeway	Yes	2015	Trust Fund
	Total Trust Fund (already included in Highway Plan total)							\$637,908,248					

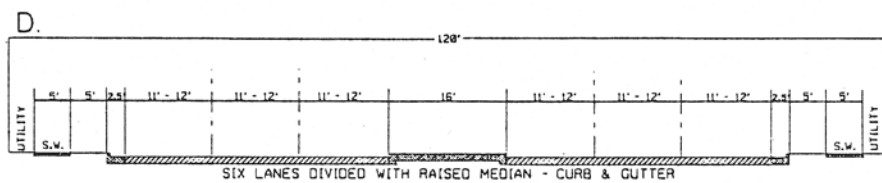
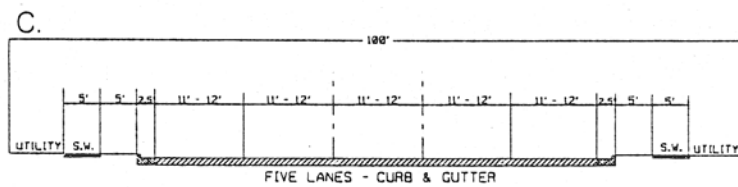
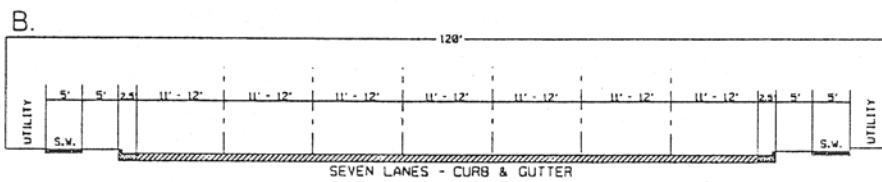
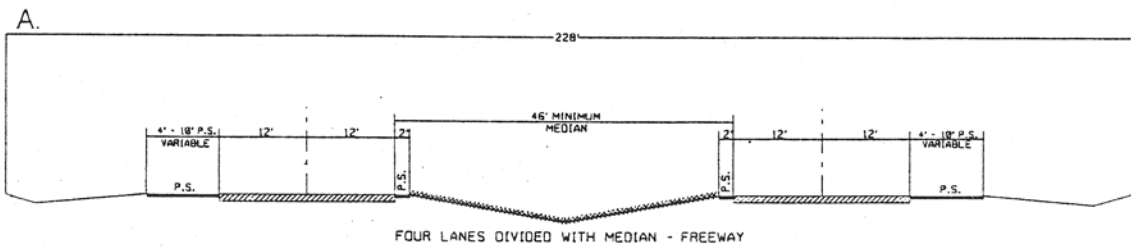
Recommended Highway Component



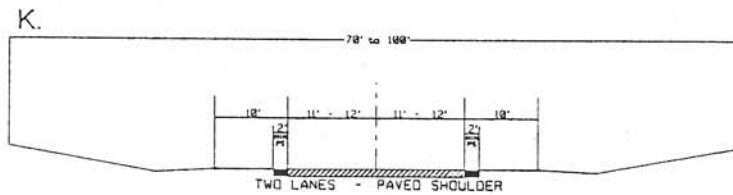
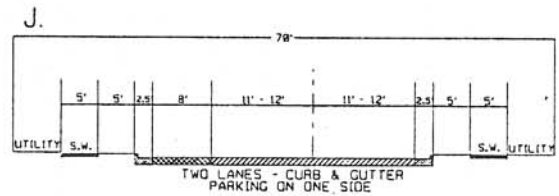
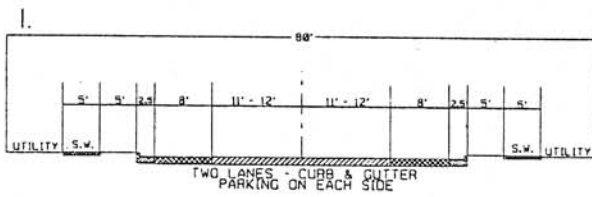
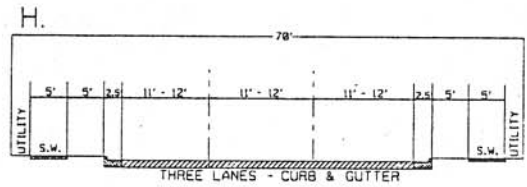
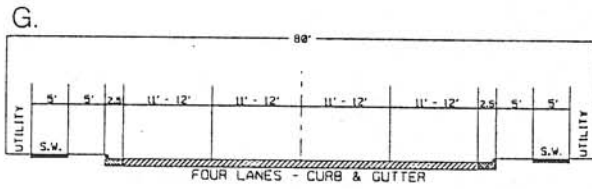
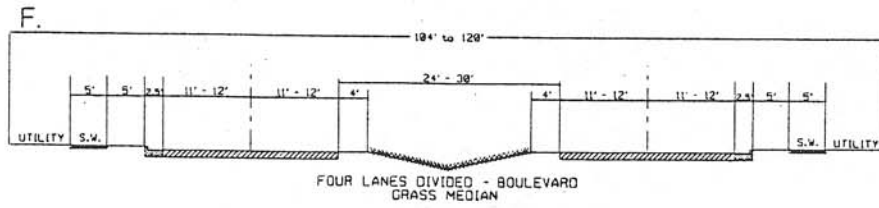
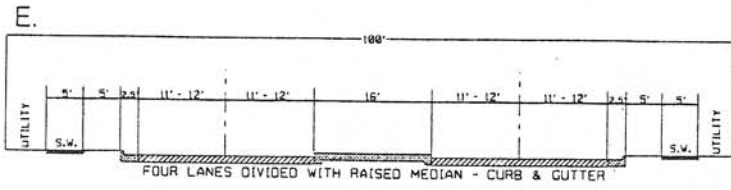
- Highway Projects
- Streets
- ▭ Durham County Boundary
- ▭ Orange County Boundary
- ▭ Durham MPO Boundary



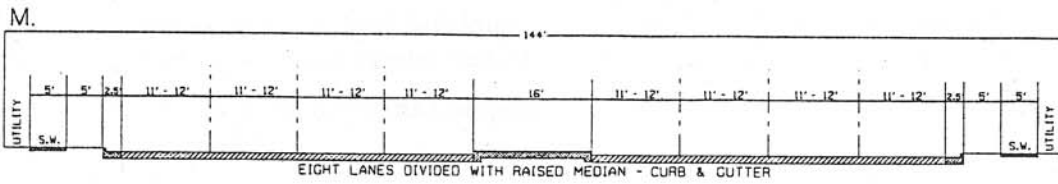
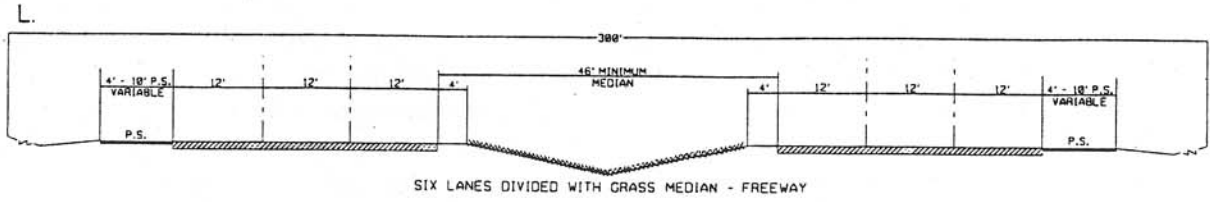
TYPICAL ROADWAY CROSS SECTIONS



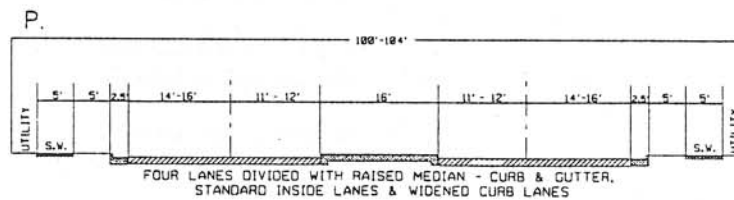
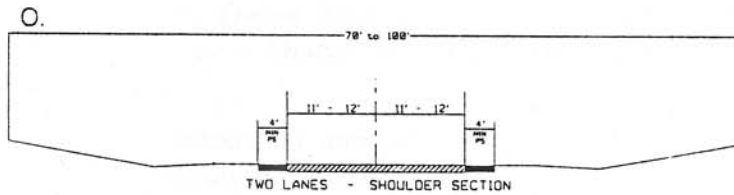
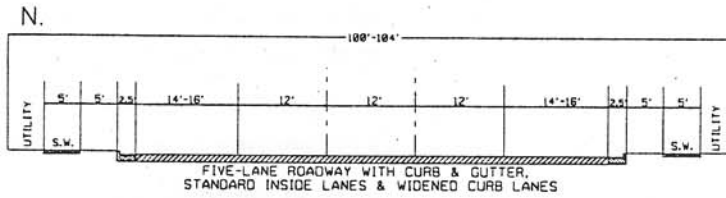
TYPICAL ROADWAY CROSS SECTIONS



TYPICAL ROADWAY CROSS SECTIONS



TYPICAL ROADWAY CROSS SECTIONS FOR ACCOMMODATING BICYCLES



Section 3 – Bus Transit Plan

Background and Total Costs

This section presents the bus transit plan for the draft recommended 2025 LRTP. The table starts on page 21. The projects are listed in the order that they were inserted into the draft plan, with regular bus routes listed first, followed by feeder, express bus, and shuttle services. The total estimated costs for the transit improvements (bus services/park & ride/building facilities) is \$1,555,491,230, which is composed of \$384,900,000 capital costs and \$1,106,904,000 total operating and maintenance. At the end of this table, proposed park-n-ride and building (bus transfer centers) projects are presented separately from the bus route information. The estimated subtotal costs these two types of capital projects is \$10,775,000 and \$52,012,227, respectively, and therefore the total capital costs for bus routes, park-n-ride, and buildings is \$448,587,230. The total estimated costs, including operating and maintenance, and capital costs, for all bus transit projects is \$1,555,491,230.

Page 33 is a map depicting the bus transit projects.

Key Information

Each row in this listing is a separate transit project. The key information for each project is presented by columns, and includes the following:

- Project No. – This number facilitates the identification of projects in the long-range plan, and does not represent any type of project priority. There are 285 bus route projects, 11 park-n-ride projects, and 2 building, or transfer centers.
- Service Type – There are four types of service: local bus service; feeder service that connects bus routes to fixed guideway transit stations; express bus service routes; and, shuttle service.
- Route Name – The route name identifies or describes the route.
- Transit Agency – The transit agencies responsible for operating the proposed services include: DATA – Durham Area Transit Authority; CHT – Chapel Hill Transit; TTA – Triangle Transit Authority; Orange – Orange Public Transportation; and, Duke – Duke University Transit.
- Peak Headway – This number denotes the number of minutes between buses on that route during peak travel times, i.e., morning and afternoon “rush hour.”
- Off-Peak Headway – This number denotes the number of minutes between buses on that route during non peak travel times, i.e., outside of the morning and afternoon “rush hour.”
- Annual Operating and Maintenance – This amount includes the labor, fuel, maintenance, and other ongoing costs required to operate the vehicles on the route.
- Capital Cost – This amount is the purchase price of vehicles, e.g., buses, and related equipment.
- Average Service Years – This number indicates the average number of years that a bus is assumed to be in service. This assumption impacts the assumed capital costs.

- Total Operating & Maintenance (2003-2025) – This amount is the total estimated operating and maintenance costs throughout the 23-year planning period, i.e., from 2003 to 2025. The annual operating and maintenance costs, and the year in which service is assumed to begin on that particular route, are the two factors that determine this amount..

How are Transit Costs Computed

There are three cost components for transit projects. Annual operating and maintenance is calculated by multiplying the number service hours by a standard hourly cost rate for operating a bus. The number of service hours is derived from the peak and non-peak service schedule, and the frequency in which buses serve the route stops, i.e., headway. Capital costs must consider the number of service and backup buses required to serve the route, the purchase price of buses, and the number of years the bus is likely to be in service. Total operating and maintenance costs is a product of the annual operating and maintenance costs, and the number of service years that the route is projected to have within the timeframe of this plan, i.e., from 2003 to 2025.

**Recommended Draft 2025 LRTP (2003 to 2025)
Bus Transit Plan**

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
1	local bus	N-GATE->SPOINT	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
2	local bus	SPOINT->N-GATE	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
3	local bus	N-GATE->SPOINT Mall Shuttle	DATA	30	60	\$522,000	\$900,000	12	\$6,264,000
4	local bus	CARR N TRANSITION'	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
5	local bus	CARR N TRANSITION	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
6	local bus	I40/15501->FRANKLIN/UNC	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
7	local bus	FRANKLIN/UNC->I40/15501	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
8	local bus	MAIN&ROBERSON->ELLIOTT&US 15/501', shuttle	CHT	15	60	\$522,000	\$900,000	12	\$6,264,000
9	local bus	laurel hill loop-meadowmont shuttle	CHT	15	60	\$348,000	\$600,000	12	\$4,176,000
10	local bus	HORAC WILLIAMS->UNC	CHT	7.5	15	\$348,000	\$600,000	12	\$4,176,000
11	local bus	:HORAC WILLIAMS->UNC	CHT	7.5	15	\$522,000	\$900,000	12	\$6,264,000
12	local bus	UNC->MASON FARM	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
13	local bus	MASON FARMUNC->UNC	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
14	local bus	NORTH/SOUTH EXPRESS ob/NB	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
15	local bus	NORTH/SOUTH EXPRESS ib/SB'	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
16	local bus	C ROUTE OUTBOUND'	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
17	local bus	C ROUTE INBOUND	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
18	local bus	D ROUTE OUTBOUND	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
19	local bus	D ROUTE INBOUND	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
20	local bus	F ROUTE OUTBOUND	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
21	local bus	F ROUTE INBOUND	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
22	local bus	G ROUTE OUTBOUND	CHT	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
23	local bus	G ROUTE INBOUND	CHT	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
24	local bus	J ROUTE OUTBOUND'	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
25	local bus	J ROUTE INBOUND	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
26	local bus	N ROUTE OUTBOUND	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
27	local bus	N ROUTE INBOUND	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
28	local bus	Airport Road Express (NU Route) OB	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
29	local bus	Airport Road Express (NU Route) IB	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
30	local bus	S ROUTE OUTBOUND	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
31	local bus	S ROUTE INBOUND	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
32	local bus	T ROUTE OUTBOUND	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
33	local bus	T ROUTE INBOUND	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
34	local bus	U ROUTE OUTBOUND	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
35	local bus	U ROUTE INBOUND	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
36	local bus	MAIN&ROBERSON->ELLIOTT&US 15/501',	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
37	local bus	:ELLIOTT&US 15/501->MAIN&ROBERSON',	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
38	local bus	Weaver Dairy Road loop [CH6]	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
39	local bus	:S&COLUMBIA->LAUREL H&EPHESUS	CHT	15	30	\$348,000	\$600,000	12	\$4,176,000
40	local bus	LAUREL H&EPHESUS CH->S&COLUM	CHT	15	30	\$348,000	\$600,000	12	\$4,176,000
41	local bus	Downtown Carrboro - UNC loop [CH12]	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
42	local bus	Liggett Myers->DENFIELD&ROXBR',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
43	local bus	DENFIELD&ROXBR->Liggett Myers',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
44	local bus	Liggett Myers->CARVER&FRONT',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
45	local bus	CARVER&FRONT->Liggett Myers',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
46	local bus	ALSTON STA->HOLDER&SHERRON	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
47	local bus	HOLDER&SHERRON->ALSTON STA	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
48	local bus	Liggett Myers->HOLLOWAY/VILLAG',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
49	local bus	HOLLOWAY/VILLAG->Liggett Myers',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
50	local bus	Liggett Myers->N.DUKE MALL	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
51	local bus	N.DUKE MALL->Liggett Myers	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
52	local bus	Liggett Myers->S.SQUARE MALL	DATA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
53	local bus	S.SQUARE MALL->Liggett Myers	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
54	local bus	Liggett Myers->NEAL&MEADOWBROOK	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
55	local bus	:NEAL&MEADOWBROOK->Liggett Myers',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
56	local bus	Liggett Myers->S.ROXBORO ST.',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
57	local bus	S.ROXBORO ST.->Liggett Myers',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
58	local bus	Liggett Myers->HOLMES REC.CTR',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
59	local bus	HOLMES REC.CTR->Liggett Myers',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
60	local bus	Liggett Myers->DURH.REG.HOSP',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
61	local bus	DURH. REG.HOSP->Liggett Myers',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
62	local bus	Liggett Myers->S.SQUARE MAL',	DATA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
63	local bus	S.SQUARE MAL->Liggett Myers',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
64	local bus	9TH ST(Buchanan)->DUKE/VA H',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
65	local bus	DUKE/VA H->9TH ST(Buchanan)',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
66	local bus	Liggett Myers->S.PARK STA	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
67	local bus	S.PARK STA->Liggett Myers'	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
68	local bus	NCCU->HOLLOWAY&LYNN',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
69	local bus	HOLLOWAY&LYNN->NCCU	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
70	local bus	FAYTTVL&CORNWLLS->HW54&ALSTN',	DATA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
71	local bus	HW54&ALSTN->FAYTTVL&CORNWLLS',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
72	local bus	DA VINC&HINSN->HORTN&HLNDL',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
73	local bus	HORTN&HLNDL->DA VINC&HINSN',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
74	local bus	15/501&SCARLTT->ACADMY&PICKT',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
75	local bus	ACADMY&PICKTT->15/501&SCARLT',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
76	local bus	N.PARK->WAKE FORES&SHERRON',	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
77	local bus	WAKE FORES&SHERRON->N.PARK',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
78	local bus	Liggett Myer->TOREDG&SNOWHL',	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
79	local bus	TOREDG&SNOWHL->Liggett Myer',	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
80	local bus	S.SQ.MALL->N.PARK	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
81	local bus	:N.PARK->S.SQ.MALL'	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
82	local bus	n dur exp>leggitt myers -501 snow hill	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
83	local bus	n dur exp>501 snow hill - liggett myers	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
84	local bus	:DA VINCI&HINSN->INFIN&ROXBR',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
85	local bus	INFIN&ROXBR->DA VINCI&HINSN',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
86	local bus	W.CAMPUS->E.CAMPUS	DUKE	10	20	\$348,000	\$600,000	12	\$4,176,000
87	local bus	E.CAMPUS->W.CAMPUS'	DUKE	10	20	\$348,000	\$600,000	12	\$4,176,000
88	local bus	DUKE E/CENT/W EB:W.->E.CAMPUS'	DUKE	10	20	\$522,000	\$900,000	12	\$6,264,000
89	local bus	T,ID='DUKE E/CENT/W WB:E.->W.CAMPUS	DUKE	10	20	\$522,000	\$900,000	12	\$6,264,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
90	local bus	DUKE SCIENCE DR LOOP:CLOCKWISE',	DUKE	10	20	\$522,000	\$900,000	12	\$6,264,000
91	local bus	DUKE SCIENCE DR LOOP:COUNTER-CLOCKWISE',	DUKE	10	20	\$522,000	\$900,000	12	\$6,264,000
92	local bus	DUKE MED.CTR.->GREYSTONE',	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
93	local bus	GREYSTONE->DUKE MED.CTR.',	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
94	local bus	T_ID='DUKE MED 3 WITH STOP NB:ENTRY 11->PG3	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
95	local bus	PG3->ENTRY 11	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
96	local bus	DUKE HOSP N.->ERWIN SQ	DUKE	10	20	\$348,000	\$600,000	12	\$4,176,000
97	local bus	ERWIN SQ->DUKE HOSP N.	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
98	local bus	RT LOT->ENTR 11',	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
99	local bus	ENTR 11->RT LOT',	DUKE	10	20	\$174,000	\$300,000	12	\$2,088,000
100	local bus	:E.CAMPUS->DUKE VILLA	DUKE	10	20	\$348,000	\$600,000	12	\$4,176,000
101	local bus	DUKE VILLA->E.CAMPUS	DUKE	10	20	\$348,000	\$600,000	12	\$4,176,000
102	local bus	ROXBR&LAWSN->ALSTN STA',	NCCU	10	20	\$348,000	\$600,000	12	\$4,176,000
103	local bus	ALSTN STA->ROXBR&LAWSN',	NCCU	10	20	\$348,000	\$600,000	12	\$4,176,000
104	local bus	CU CIRCULAR:FAYETTVILL:GEORG-MOLINE	NCCU	10	20	\$174,000	\$300,000	12	\$2,088,000
105	local bus	DUKE MED.CTR.->S.PARK	TTA	10	20	\$522,000	\$900,000	12	\$6,264,000
106	local bus	S.PARK->DUKE MED.CTR.	TTA	10	20	\$522,000	\$900,000	12	\$6,264,000
107	local bus	airport assemblage clockwise	TTA	10	20	\$522,000	\$900,000	12	\$6,264,000
108	local bus	airport assemblage counter clockwise	TTA	10	20	\$522,000	\$900,000	12	\$6,264,000
109	local bus	S.PK->SO-HI DR&ENFIELD DR',	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
110	local bus	SO-HI DR&ENFIELD DR->S.PK',	TTA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
111	local bus	S.PARK->N.PARK'	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
112	local bus	N.PARK->S.PARK	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
113	local bus	MORRISVILLE->S.PARK',	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
114	local bus	S.PARK->MORRISVILLE',	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
115	local bus	MORRISVILLE->S.PARK	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
116	local bus	S.PARK->MORRISVILLE	TTA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
117	local bus	MORRISVILLE->S.PARK	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
118	local bus	:S.PARK->MORRISVILLE	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
119	local bus	S.SQUARE-woodcroft	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
120	local bus	woodcroft-S.SQUARE	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
121	local bus	D-TOWN->NC98/MN SPR	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
122	local bus	NC98/MN SPR->D-TOWN	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
123	local bus	DATA 20 UNIV DR >RTP OB	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
124	local bus	DARA 20 RTP >UNIV DR IB	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
125	local bus	UNI DR->RTP	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
126	local bus	UNI DR->RTP	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
127	local bus	UNC->PITTSBORO	CHT	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
128	local bus	PITTSBORO->UNC	CHT	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
129	local bus	unc/nc54-friday ctr IB',	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
130	local bus	friday ctr-unc/nc54 OB',	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
131	local bus	54/farrton/barbee chapel loop',	CHT	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
132	local bus	MEADOWMONT --> 15-501 & UNIV MALL	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
133	local bus	15-501 & UNIV MALL --> MEADOWMONT	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
134	local bus	Governor's Shuttle ib	CHT	20	90	\$348,000	\$600,000	12	\$4,176,000
135	local bus	Governor's Shuttle ob	CHT	20	90	\$348,000	\$600,000	12	\$4,176,000
136	local bus	unc-jack bennett IB', p&r shuttle	CHT	10	90	\$870,000	\$1,500,000	12	\$10,440,000
137	local bus	jack bennett-unc OB', shuttle	CHT	10	90	\$696,000	\$1,200,000	12	\$8,352,000
138	local bus	'D7SP SOUTHPOINT MALL: OB	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
139	local bus	SPR SOUTHPOINT MALL: IB	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
140	local bus	DTT EPA local: OB	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
141	local bus	DTT EPA local: IB'	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
142	local bus	NCCU CAMPUS: LOOP	DATA	10	20	\$174,000	\$300,000	12	\$2,088,000
143	local bus	CENT MED PK WILLOWDALE: OB	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
144	local bus	CENT MED PK WILLOWDALE: IB	DATA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
145	local bus	NC98 US70 SOUTH MIAMI: OB	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
146	local bus	NC98 US70 SOUTH MIAMI: IB	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
147	local bus	NORTHGATE RTP: INBOUND	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
148	local bus	NORTHGATE RTP: OUTBOUND	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
149	local bus	DUR REG HOSP DUKE MED CTR: OB'	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
150	local bus	DUR REG HOSP DUKE MED CTR: IB	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
151	local bus	Jones Ferry P&R Exp	CHT	15	30	\$348,000	\$600,000	12	\$4,176,000
152	local bus	Jones Ferry P&R Exp	CHT	15	30	\$348,000	\$600,000	12	\$4,176,000
153	local bus	BCBS Express	CHT	15	30	\$348,000	\$600,000	12	\$4,176,000
154	local bus	BCBS Express	CHT	15	30	\$348,000	\$600,000	12	\$4,176,000
155	local bus	DNTN DTECH SNOW OB	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
156	local bus	DNTN DTECH SNOW IB	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
157	local bus	NGATE RTP W OB	DATA	10	20	\$348,000	\$600,000	12	\$4,176,000
158	local bus	NGATE RTP W IB	DATA	10	20	\$348,000	\$600,000	12	\$4,176,000
159	local bus	NGATE RTP E OB	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
160	local bus	NGATE RTP E IB	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
161	local bus	DREGHOSP DUKE OB	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
162	local bus	DREGHOSP DUKE IB	DATA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
163	local bus	DATA:Treyburn Shuttle loop',	DATA	15	90	\$870,000	\$1,500,000	12	\$10,440,000
164	local bus	NE Loop Shuttle, OB',	DATA	15	90	\$696,000	\$1,200,000	12	\$8,352,000
165	local bus	NE Loop. Shuttle, IB',	DATA	15	90	\$696,000	\$1,200,000	12	\$8,352,000
166	local bus	NW Loop Shuttle',	DATA	15	90	\$696,000	\$1,200,000	12	\$8,352,000
167	local bus	DurRegHosp-Main,OB',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
168	local bus	Main St-Dur Reg Hosp,IB',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
169	local bus	Orangefactoryrd-term1 OB',	DATA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
170	local bus	Orangefactoryrd-term1 IB',	DATA	10	20	\$174,000	\$300,000	12	\$2,088,000
171	local bus	dur reghosp OB',	DATA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
172	local bus	dur reghosp IB',	DATA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
173	local bus	S SQUARE STA Shuttle OB',	DATA	15	60	\$522,000	\$900,000	12	\$6,264,000
174	local bus	S SQUARE STA Shuttle IB',	DATA	15	60	\$522,000	\$900,000	12	\$6,264,000
175	local bus	S SQUARE Feeder OB',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
176	local bus	S SQUARE Feeder IB',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
177	local bus	Dtwn Terminal Feeder OB',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
178	local bus	Dtwn Terminal Feeder IB',	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
179	local bus	Dtwn Terminal Shuttle OB',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
180	local bus	Dtwn Terminal Shuttle IB',	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
181	local bus	Joyner/Club/Duke OB'	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
182	local bus	Joyner/Club/Duke IB	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
183	local bus	Meridian Pkwy feeder OB'	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
184	local bus	Meridian Pkwy feeder IB	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
185	local bus	Woodcroft ShopCtr feeder OB,	DATA	10	20	\$348,000	\$600,000	12	\$4,176,000
186	local bus	Woodcroft ShopCtr feeder IB	DATA	10	20	\$348,000	\$600,000	12	\$4,176,000
187	local bus	Riddle Shuttle feeder OB	DATA	15	90	\$522,000	\$900,000	12	\$6,264,000
188	local bus	Riddle Shuttle feeder IB	DATA	15	90	\$522,000	\$900,000	12	\$6,264,000
189	local bus	H EXPRESS OUTBOUND	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
190	local bus	H EXPRESS INBOUND	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
191	local bus	V ROUTE OUTBOUND	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
192	local bus	V ROUTE INBOUND	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
193	local bus	EU - loop SHUTTLE	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
194	local bus	BCBS PARK RIDE OUTBOUND	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
195	local bus	BCBS PARK RIDE INBOUND	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
196	local bus	A ROUTE OUTBOUND	CHT	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
197	local bus	A ROUTE INBOUND	CHT	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
198	local bus	JONES FERRY PARK RIDE OUTBOUND	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
199	local bus	JONES FERRY PARK RIDE INBOUND	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
200	feeder	Eubanks station 1a	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
201	feeder	Eubanks station 1b	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
202	feeder	Eubanks station 2a	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
203	feeder	Eubanks station 2b	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
204	feeder	meadowmont/mason farm sta 1a	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
205	feeder	meadowmont/mason farm sta 1b	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
206	feeder	meadowmont/mason farm sta 2a	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
207	feeder	meadowmont/mason farm sta 2b	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
208	feeder	meadowmont/mason farm sta 3a	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
209	feeder	meadowmont/mason farm sta 3b	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
210	feeder	meadowmont/mason farm sta 3b ccw	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
211	feeder	gateway station 1a	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000

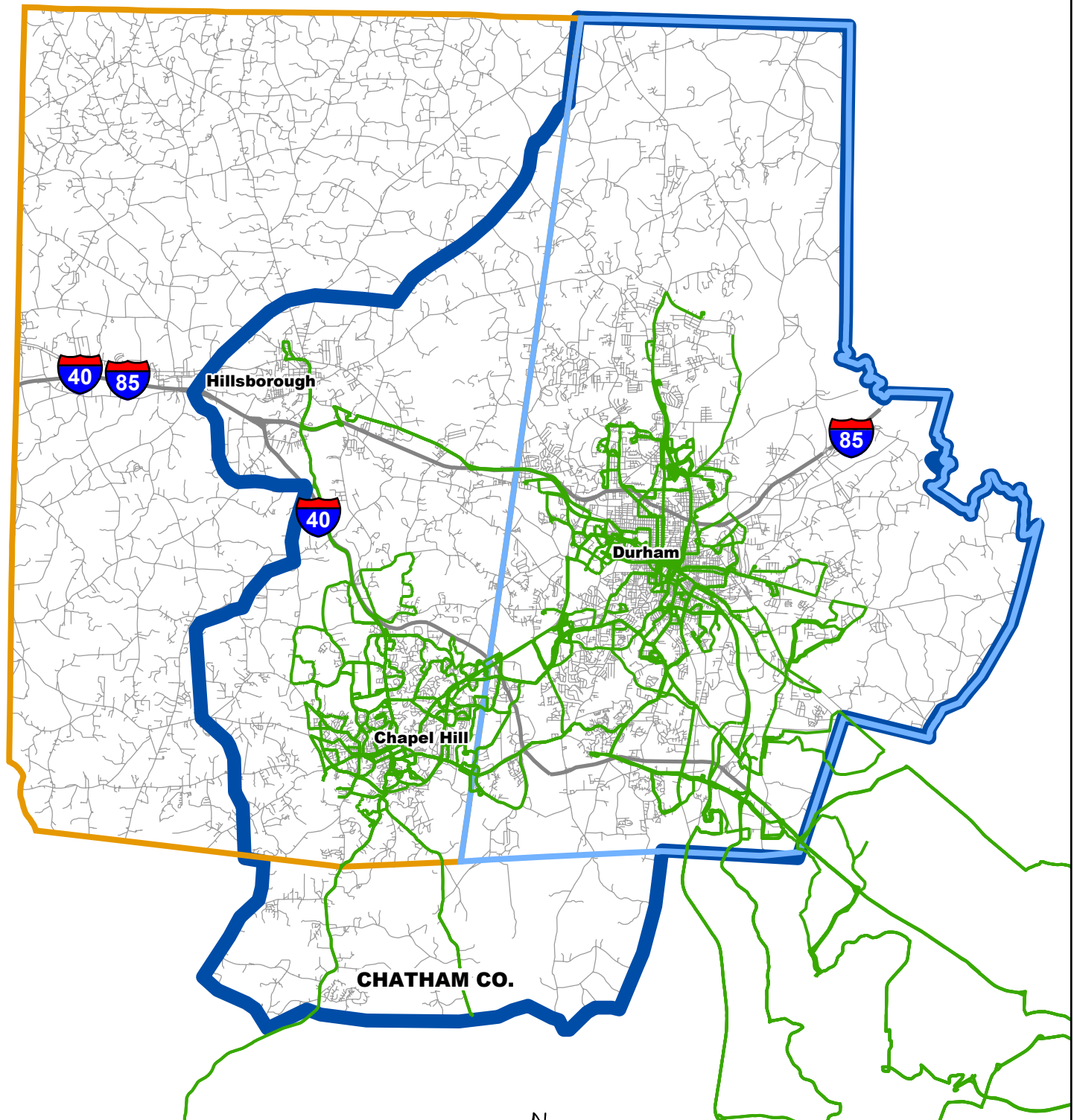
No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
212	feeder	gateway station 1b	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
213	feeder	gateway station 2a	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
214	feeder	gateway station 2b	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
215	feeder	horace williams station 1a	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
216	feeder	horace williams station 1b	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
217	feeder	horace williams station 2a	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
218	feeder	horace williams station 2b	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
219	feeder	horace williams station 3a	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
220	feeder	horace williams station 3b	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
221	feeder	horace williams station 4a	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
222	feeder	horace williams station 4b	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
223	feeder	carrboro station 1a	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
224	feeder	carrboro station 1b	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
225	feeder	carrboro station 1c	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
226	feeder	751 meadowmont ib	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
227	feeder	meadowmont-751 ob	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
228	feeder	I-40 / exit 273 ib	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
229	feeder	I-40 / exit 273 ob	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
230	feeder	s fayetteville>southpoint ib	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
231	feeder	southpoint>s fayetteville ob	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
232	feeder	s. barbee rd>i40 ib	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
233	feeder	s. barbee rd>i40 ob	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
234	feeder	s. barbee rd	DATA	10	20	\$522,000	\$900,000	12	\$6,264,000
235	feeder	s. barbee rd	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
236	feeder	s davis drive loop ib	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
237	feeder	s davis drive loop ob	DATA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
238	express bus	SPR F(At Spr)->WAKE F'	TTA	10	20	\$696,000	\$1,200,000	12	\$8,352,000
239	express bus	WAKE F->SPR F(At Spr)	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
240	express bus	Harrington Sta->CLAYTON	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
241	express bus	CLAYTON->HARRINGTON STA	TTA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
242	express bus	:H->CH'	ORANGE	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
243	express bus	CH->H'	ORANGE	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
244	express bus	H->DUKE MED	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
245	express bus	DUKE MED->H	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
246	express bus	D-TWN->NIEHS/EPA	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
247	express bus	NIEHS/EPA->D-TOWN	DATA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
248	express bus	UNC->HORAC WILLIAMS EXP	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
249	express bus	UNC->HORAC WILLIAMS EXP	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
250	express bus	SOUTH ORANGE EXPRESS	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
251	express bus	SOUTH ORANGE EXPRESS	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
252	express bus	laurel hill loop-meadowmont IB',	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
253	express bus	meadowmont-laurel hill loop OB',	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
254	express bus	UNC->HILLSBORO EXPRESS	CHT	10	20	\$696,000	\$1,200,000	12	\$8,352,000
255	express bus	UNC->HILLSBORO EXPRESS	CHT	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
256	express bus	:GOVERNOR PLACE EXPRESS	CHT	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
257	express bus	GOVERNOR PLACE EXPRESS	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
258	express bus	SOUTHERN VILLAGE->UNC	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
259	express bus	SOUTHERN VILLAGE->UNC	CHT	10	20	\$348,000	\$600,000	12	\$4,176,000
260	express bus	MASON FARM-AIRPRT-HORAC WMS	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
261	express bus	HORAC WMS AIRPORT-MASON FAM	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
262	express bus	UNC-->H Williams-->Timberlyne, OB [CH7]	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
263	express bus	UNC-->H Williams-->Timberlyne, IB [CH7]	CHT	10	20	\$522,000	\$900,000	12	\$6,264,000
264	shuttle	Pittsboro Shuttle IB	CHT	15	90	\$870,000	\$1,500,000	12	\$10,440,000
265	shuttle	Pittsboro Shuttle OB	CHT	15	90	\$870,000	\$1,500,000	12	\$10,440,000
266	express bus	GREEN LINE EXP OB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
267	express bus	GREEN LINE EXP IB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
268	express bus	HILLS-DURHAM EXP OB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
269	express bus	HILLS-DURHAM EXP IB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
270	express bus	DURHAM CH EXP OB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
271	express bus	DURHAM CH EXP IB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
272	express bus	CHAP HILL-RTP EXP OB	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
273	express bus	CHAP HILL-RTP EXP IB	TTA	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
274	express bus	N. CHAP HILL-RTP EXP OB	TTA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
275	express bus	N. CHAP HILL-RTP EXP IB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
276	express bus	TREYBURN EXP OB	TTA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
277	express bus	TREYBURN EXP IB	TTA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
278	express bus	DUKE-S.PARK STAT EXP OB	TTA	10	20	\$1,566,000	\$2,700,000	12	\$18,792,000
279	express bus	DUKE-S.PARK STAT EXP IB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
280	express bus	DNTN DUR-STALLNGS EXP OB	TTA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
281	express bus	DNTN DUR-STALLNGS EXP IB	TTA	10	20	\$870,000	\$1,500,000	12	\$10,440,000
282	express bus	N GATE-S POINT EXP OB	TTA	10	20	\$1,218,000	\$2,100,000	12	\$14,616,000
283	express bus	N GATE-S POINT EXP IB	TTA	10	20	\$1,392,000	\$2,400,000	12	\$16,704,000
284	express bus	Gateway to Horace Williams	CHT	10	20	\$870,000	\$1,500,000	12	\$10,440,000
285	express bus	Horace Williams to Gateway	CHT	10	20	\$1,044,000	\$1,800,000	12	\$12,528,000
						\$92,242,000	\$384,900,000		\$1,106,904,000
1	park & ride	Mason Farm PR Lot (500 spaces)	CHT				\$1,077,500		
2	park & ride	Friday Center PR Lot (500 spaces)	CHT				\$1,077,500		
3	park & ride	University Lake PR Lot (500 spaces)	CHT				\$1,077,500		
4	park & ride	US 15-501 South PR Lot (500 spaces)	CHT				\$1,077,500		
5	park & ride	Horace Williams North Lot (500 spaces)	CHT				\$1,077,500		
6	park & ride	US 15-501 North PR Lot (500 spaces)	CHT				\$1,077,500		
7	park & ride	Governor's Village Lot (500 spaces)	CHT				\$1,077,500		
8	park & ride	Hillsborough (I-40/I85) (250 spaces)	Orange				\$538,750		
9	park & ride	Treyburn- North Durham P&R (500 spaces)	DATA				\$1,077,500		
10	park & ride	NC 98 P&R (500 spaces)	DATA				\$1,077,500		
11	park & ride	I-85 Granville (250 spaces)	DATA				\$538,750		
							\$10,775,000		
1	Building	Chapel Transit Facility/Downtown Transfer Center					\$29,000,000		
2	Building	DATA Facility & Downtown Multimodal Center					\$23,912,227		
							\$52,912,227		

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	Off peak Headway	Annual Operating & Maintenance (O&M)	Capital Cost - (2002\$)	Avg. Service Years	Total O&M 2003-2025
		Total Capital for all bus transit projects					<u>\$448,587,227</u>		
		Total Capital and O&M costs for all bus transit projects							\$1,555,491,227

Recommended Transit Component



- Preferred Transit
- Streets
- Durham County Boundary
- Orange County Boundary
- Durham MPO Boundary



Section 4 -- Fixed Guideway Plan

Background and Total Costs

This section presents the fixed guideway plan for the draft recommended 2025 LRTP. Fixed guideway refers to rail, bus rapid transit, and other types of transit service that operate on permanent routes. In the first table of this section, on page 36, seven (7) proposed fixed-guideway systems and related data are listed. There are fourteen (14) listings because the seven (7) projects each have an inbound and outbound component (i.e., two service directions for each route). In the second table, on page 37, the capital, and operating and maintenance costs for these seven (7) proposed projects are listed. The three (3) high capacity projects are bundled together. The total capital costs are \$810,671,600, and total operating and maintenance costs are \$613,875,350, which sum to a total fixed-guideway cost of \$1,424,546,950.

Page 38 is a map depicting the projects in the Fixed-Guideway plan.

Key Information

In the first table, each row in this listing is a separate fixed-guideway project. The key information for each project is presented by columns, and includes the following:

- No. – This number facilitates the identification of projects in the long-range plan., and does not represent any type of project priority. There are 14 fixed guideway projects.
- Route Name – This name identifies the service corridor, or major facility that is being served. IB is inbound, and OB is outbound.
- Transit Agency – TTA will operate Phase I projects, but Phase II projects are not far enough along in the development process to definitely determine the operator. CHT – Chapel Hill Transit will operate the high capacity service in Chapel Hill and Carrboro.
- Peak Headway – This number denotes the number of minutes between service vehicles, e.g., rail car or buses, on that route during peak travel times, i.e., morning and afternoon “rush hour.”
- Off-Peak Headway – This number denotes the number of minutes between service vehicles, e.g., rail car or buses, on that route outside of peak travel times, i.e., morning and afternoon “rush hour.”

How are Transit Costs Computed

Various feasibility and/or major investment studies have been conducted for all the proposed fixed guideway projects. The second table of this section, on page 37, “Fixed Guideway and High Capacity Transit -- Cost Estimates,” presents the cost estimates from these studies.

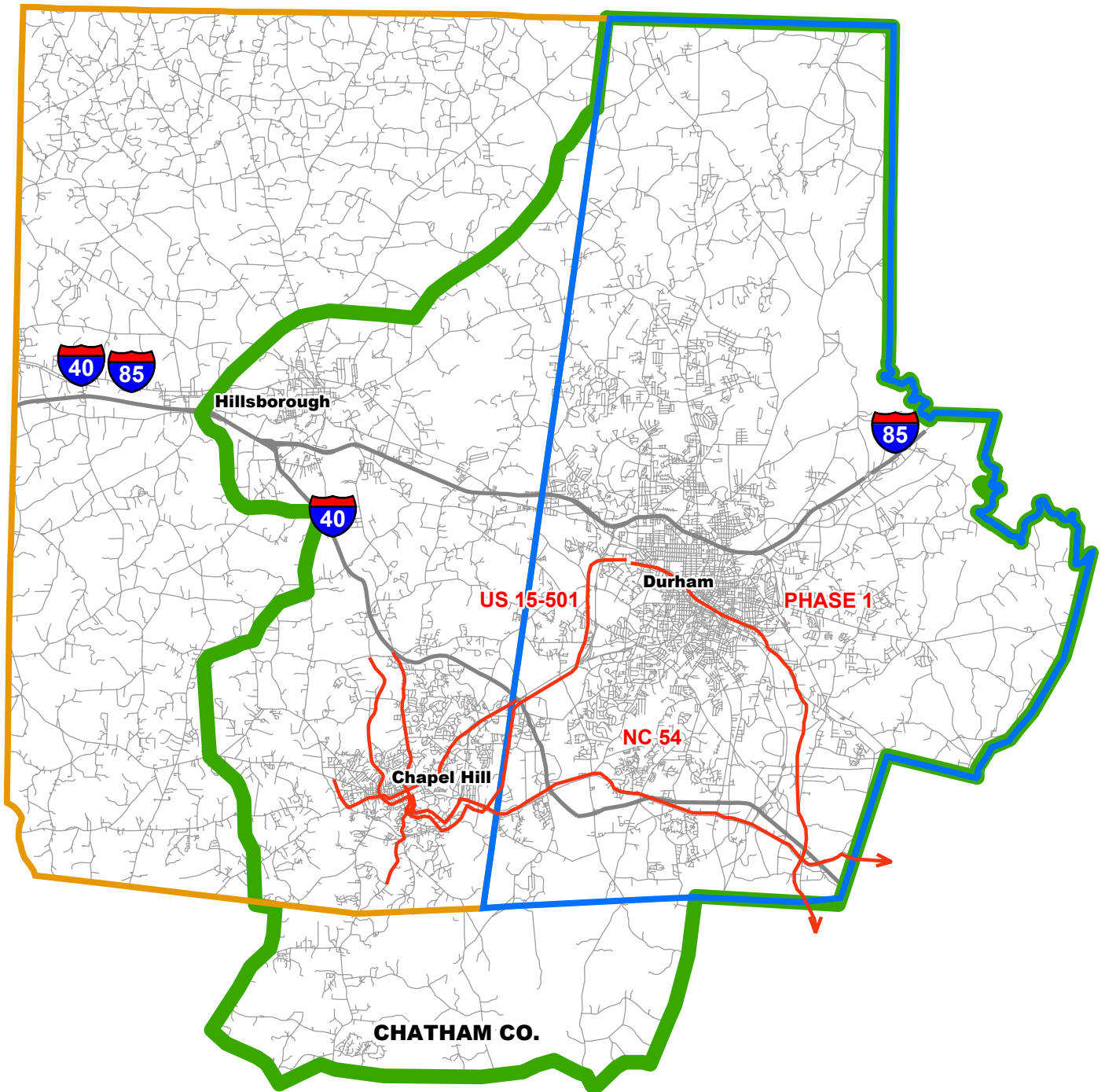
**Recommended Draft 2025 LRTP (2003 to 2025)
Fixed Guideway & High Capacity Transit Plan -- Routes**

No.	Service Type	Route Name (Description)	Transit Agency	Peak Headway	off peak Headway
1	Rail	DUKE HOSPITAL/VA STAT->SPRING FOREST STA'	TTA Rail Phase 1	10	20
2	Rail	SPRING FOREST STA->DUKE HOSPITAL/VA STAT'	TTA Rail Phase 1	10	20
3	Fixed guideway	Duke/9th ST-> UNC HOSP (15501 fixed guideway)	Phase-2 Regional	10	20
4	Fixed guideway	UNC HOSP -> Duke/9th Street (15501 fixed guideway)	Phase-2 Regional	10	20
5	Fixed guideway	UNC->NC54/RTP/RDU (NC54/I40 fixed guideway) -IB	Phase-3 Regional	10	20
6	Fixed guideway	UNC->NC54/RTP/RDU (NC54/I40 fixed guideway) -OB	Phase-3 Regional	10	20
7	Fixed guideway	RDU Airport Connection IB	Phase-2 Regional	10	20
8	Fixed guideway	RDU Airport Connection OB	Phase-2 Regional	10	20
9	high capacity	I40 via 15501->Carrboro Plaza IB	CHT	10	20
10	high capacity	Carrboro Plaza -> I40 via 1501 OB	CHT	10	20
11	high capacity	Eubanks -> Southern Village IB	CHT	10	20
12	high capacity	Eubanks -> Southern Village OB	CHT	10	20
13	high capacity	Horace Williams -> UNC IB	CHT	10	20
14	high capacity	Horace Williams -> UNC OB	CHT	10	20

Recommended Draft 2025 LRTP (2003 to 2025)
Fixed Guideway & High Capacity Transit Plan – Cost Estimates

No.	Description	Cost Estimates (2002 \$)
	Fixed Guideway -- Capital	
1.1	TTA Rail -Phase 1 (DCHC Portion)	\$320,230,000
1.2	US 15501 fixed guideway Duke -UNC -Phase 2	\$230,412,600
1.3	RDU Airport Connection (DCHC segment)	\$28,520,000
1.4	NC 54 fixed guideway RTP -UNC	\$170,109,000
1.5	Chapel Hill/Carrboro High Capacity Transit	\$61,400,000
	Total Fixed Guideway Capital	\$810,671,600
	Fixed Guideway -- Operating & Maintenance (O&M)	
2.1	TTA Rail -Phase 1 (DCHC Portion)	\$394,051,000
2.2	US 15501 fixed guideway Duke -UNC -Phase 2	\$77,653,000
2.3	RDU Airport Connection (DCHC segment)	\$50,917,000
2.4	NC 54 fixed guideway RTP -UNC	\$58,842,000
2.5	Chapel Hill/Carrboro High Capacity Transit	\$32,412,350
	Total Fixed Guideway O & M	\$613,875,350
	Total Fixed Guideway Cost Estimates	\$1,424,546,950

Recommended Fixed Guideway Component



- Preferred Fixed Guideway
- Streets
- Durham County Boundary
- Orange County Boundary
- Durham MPO Boundary



5 2.5 0 5 Miles

Section 5 -- Bicycle and Pedestrian Plan

Background and Total Costs

This section presents the bicycle and pedestrian plan for the draft recommended 2025 LRTP. The table, starting on page 40, is broken into three parts, Durham County, Chapel Hill and Carrboro, and Orange County, in which the projects are numbered in alphabetical order.

Page 46 is a map that depicts the projects in the Bicycle plan.

Key Information

The table provides a facility (i.e., project) description, begin and end segment, facility type, and the county and municipality location.

How are Bicycle Costs Computed

Staff from the local governments provided the estimated project costs. These estimates are commonly based on standard units costs for the proposed design, e.g., addition of a four-foot shoulder or separate bicycle lane to the roadway, and the length of the project.

No.	Facility Description	Begin Segment (Limits from)	End Segment (Limits to)	Facility Type	County	Municipality
1	Academy Rd. (NC 751)	Cameron Blvd.	University Dr.	Bike lanes	Durham	City/County
2	Alston Ave.(SR 1945)	Holloway St.	Wake County line	Bike lanes	Durham	City/County
3	American Tobacco Trail	Morehead Ave.	Chatham County	Bike Path	Durham	City/County
4	American Tobacco Trail	Riddle Rd.	Briggs Ave.	Bike Path	Durham	City/County
5	Angier Ave. (SR 1926)	Briggs Ave.	S. Miami Blvd.	Bike lanes	Durham	City/County
6	Bahama Rd. (SR 1616)	Person County line	US 501	Bike lanes	Durham	City/County
7	Barbee Chapel Rd. (SR 1110)	Farrington Rd.	NC 54	Bike lanes	Durham	City/County
8	Barbee Rd.	Herndon Rd.	Fayetteville Rd.	Bike lanes	Durham	City/County
9	Bill Poole Rd. (SR 1470)	Orange County line	US 501	Bike lanes	Durham	City/County
10	Bivins Rd. (SR 1453)	Orange County line	Umstead Rd.	Bike lanes	Durham	City/County
11	Briggs Ave.	Riddle Rd.	Holloway St.	Bike lanes	Durham	City/County
12	Briggs Ave. Ext.	Riddle Rd.	So-Hi Dr.	Bike lanes	Durham	City/County
13	Broad St.(SR 1322)	Main St.	Carver St.	Bike lanes	Durham	City/County
14	Burton Rd. (SR 1818)	East Geer St.	Cheek Rd.	Bike lanes	Durham	City/County
15	Cameron Blvd. (NC 751)	Orange County line	Academy Rd.	Bike lanes	Durham	City/County
16	Carpenter Fletcher Rd.	Woodcroft Pkwy	Alston Ave.	Bike lanes	Durham	City/County
17	Carpenter Pond Rd. (SR 1901)	Wake County line	Wake County line	Bike lanes	Durham	City/County
18	Carver St. (SR 1407)	Rose of Sharon Rd.	US 501	Bike lanes	Durham	City/County
19	Cassam Rd. (SR 1622)	Range Rd.	Old Oxford Hwy.	Bike lanes	Durham	City/County
20	Chandler Rd.	Ross Rd. to	NW Parkway/Loop	Bike lanes	Durham	City/County
21	Cheek Rd. (SR 1800)	East Geer St.	Wake County line	Bike lanes	Durham	City/County
22	Chin Page Rd. (SR 1969)	S. Miami Blvd.	Page Rd.	Bike lanes	Durham	City/County
23	Club Blvd. (SR 1669)	Hillandale Rd.	Glenn School Rd.	Bike lanes	Durham	City/County
24	Cole Mill Rd. (SR 1401)	Orange County line	Hillsborough Rd.	Bike lanes	Durham	City/County
25	Cornwallis Rd. (SR 1308, 1158, 1118, 1121)	Orange County line	S. Miami Blvd.	Bike lanes	Durham	City/County
26	Davis Dr. (SR 1999)	Cornwallis Rd.	Wake County line	Bike lanes	Durham	City/County
27	Dearborn Dr. (SR 1666)	Club Blvd.	Old Oxford Hwy.	Bike lanes	Durham	City/County
28	Downtown Loop	entire	entire	Bike lanes	Durham	City/County
29	Duke St.	US 501	Lakewood Ave.	Bike lanes	Durham	City/County
30	Duke University Rd.	Cameron Blvd.	Swift Ave.	Bike lanes	Durham	City/County
31	East Geer St. (SR 1670, SR 1827)	Ferrell Rd.	Red Mill Rd.	Bike lanes	Durham	City/County
32	East Geer St. / Geer St. (SR 1670)	Club Blvd.	Mangum St.	Bike lanes	Durham	City/County
33	Ellis Rd. (SR 1954)	So-Hi Dr.	S. Miami Blvd.	Bike lanes	Durham	City/County
34	Ephesus Church Rd. (SR 1113)	Farrington Rd.	Orange County line	Bike lanes	Durham	City/County
35	Erwin Rd. (SR 1306)	Cameron Blvd.	Orange County line	Bike lanes	Durham	City/County
36	Erwin Rd. (SR 1320)	Cameron Blvd.	Main St.	Bike lanes	Durham	City/County
37	Farrington Mill Rd. (SR 1109)	Barbee Chapel Rd.	Chatham County line	Bike lanes	Durham	City/County
38	Farrington Rd. (SR 1110)	Old Chapel Hill Rd.	Stagecoach Rd.	Bike lanes	Durham	City/County
39	Fayetteville St. (SR 1118)	Cornwallis Rd.	Liberty St.	Bike lanes	Durham	City/County
40	Ferrell Rd. (SR 1671)	Glenn School Rd.	East Geer St.	Bike lanes	Durham	City/County
41	Fulton St.	Hillandale Rd.	Erwin Rd.	Bike lanes	Durham	City/County
42	Garrett Rd. (SR 1116)	Pickett Rd.	Hope Valley Rd.	Bike lanes	Durham	City/County
43	Glover Rd. (SR 1940)	Ellis Rd.	Angier Ave.	Bike lanes	Durham	City/County

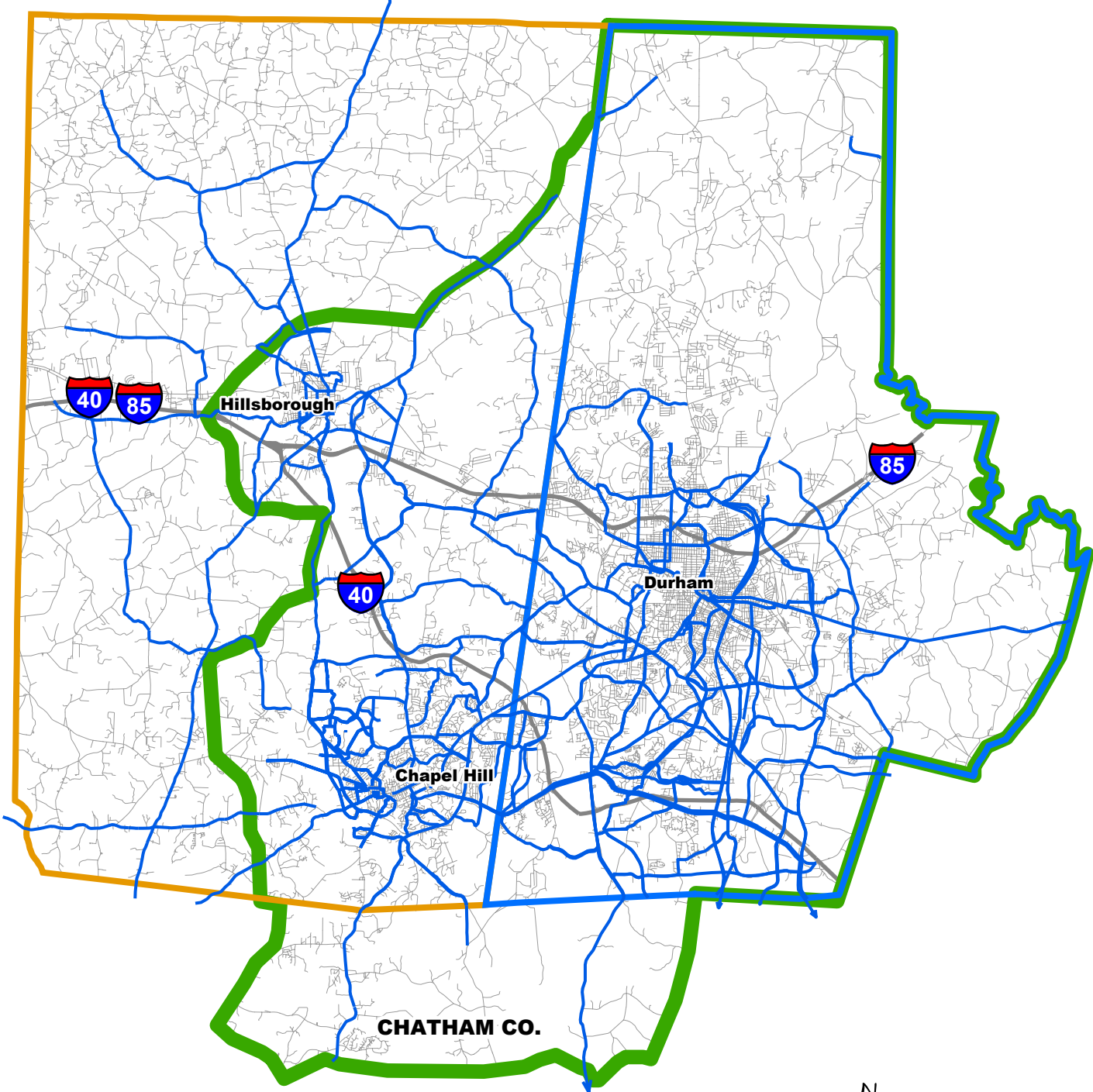
No.	Facility Description	Begin Segment (Limits from)	End Segment (Limits to)	Facility Type	County	Municipality
44	Grandale Dr. (SR 1100)	Scott King Rd.	Sedwick Rd.	Bike lanes	Durham	City/County
45	Gregson St.	Club Blvd.	Lakewood Ave.	Bike lanes	Durham	City/County
46	Guess Rd. (NC 157, Buchanan Blvd.)	Orange County line	W. Chapel Hill St.	Bike lanes	Durham	City/County
47	Hamlin Rd. (SR 1634)	Red Mill Rd.	Old Oxford Hwy.	Bike lanes	Durham	City/County
48	Hampton Rd.(SR 1603)	Red Mountain Rd.	Range Rd.	Bike lanes	Durham	City/County
49	Hillandale Rd.	Rose of Sharon Rd.	Fulton St.	Bike lanes	Durham	City/County
50	Hillsborough Rd.	Cole Mill Rd.	Ninth St.	Bike lanes	Durham	City/County
51	Hope Valley Rd. (NC 751)	Cornwallis Rd.	NC 54	Bike lanes	Durham	City/County
52	Hopkins Rd.(SR 1466)	Rougemont Rd.	Orange County line	Bike lanes	Durham	City/County
53	Hopson Ave. (SR 1978)	Alston Ave.	NC 54	Bike lanes	Durham	City/County
54	Horton Rd. (SR 1443)	Duke St.	Hillandale Rd.	Bike lanes	Durham	City/County
55	Infinity Rd. (SR 1639)	US 501	Snow Hill Rd.	Bike lanes	Durham	City/County
56	Johnson Mill Rd. (SR 1461)	South Lowell Rd.	Mason Rd.	Bike lanes	Durham	City/County
57	Junction Rd. (SR 1838)	NC 98	Ferrell Rd.	Bike lanes	Durham	City/County
58	Kemp Rd. (SR 1902)	NC 98	Wake County line	Bike lanes	Durham	City/County
59	Kerley Rd. (SR 1304)	Orange County line	Erwin Rd.	Bike lanes	Durham	City/County
60	Kerley Rd. (SR 1309)	NC 751	W. Cornwallis Rd.	Bike lanes	Durham	City/County
61	Lakewood Ave.	Roxboro Rd.	University Dr.	Bike lanes	Durham	City/County
62	Latta Rd. (SR 1448)	Guess Rd.	US 501	Bike lanes	Durham	City/County
63	Leesville Rd. (SR 1906)	Carpenter Pond Rd.	NW Parkway/Loop Rd.	Bike lanes	Durham	City/County
64	Lynn Rd.	NC 98	Gibson Rd.	Bike lanes	Durham	City/County
65	Lyon St.	Broad St.	Washington St.	Bike lanes	Durham	City/County
66	Main St.	Ninth St.	Alston Ave.	Bike lanes	Durham	City/County
67	Mangum St.	Markham Ave.	Lakewood Ave.	Bike lanes	Durham	City/County
68	Mason Rd. (SR 1002)	US 501	Guess Rd.	Bike lanes	Durham	City/County
69	Massey Chapel Rd. (SR 1192, 1106)	Fayetteville Rd.	Herndon Rd.	Bike lanes	Durham	City/County
70	Midland Terrace (and extension) (SR 1827)	Cheek Rd.	Club Blvd.	Bike lanes	Durham	City/County
71	Mineral Springs Rd. (SR 1815)	S. Miami Blvd.	Sherron Rd.	Bike lanes	Durham	City/County
72	MLK Jr. Pkwy	University Dr.	NC 55	Bike lanes	Durham	City/County
73	NC 54	Orange County line	Wake County line	Bike lanes	Durham	City/County
74	NC 751 (Garrett Rd.)	NC 54	Chatham County line	Bike lanes	Durham	City/County
75	NC 98 (Wake Forest Hwy, Holloway St.)	Roxboro Rd.	Wake County line	Bike lanes	Durham	City/County
76	Northeast Creek Pkwy	Cornwallis Rd.	Cornwallis Rd. to So-Hi Dr.	Bike lanes	Durham	City/County
77	NW Parkway / Eno Loop / ?	I-85 to US 70	I-85 to US 70	Bike lanes	Durham	City/County
78	Old Chapel Hill Rd. (SR 2220)	University Dr.	Orange County line	Bike lanes	Durham	City/County
79	Old Oxford Hwy. (SR 1004)	US 501	Granville County line	Bike lanes	Durham	City/County
80	Olive Branch Rd. (SR 1905)	Leesville Rd.	NC 98	Bike lanes	Durham	City/County
81	Olympic Ave.	Stadium Dr.	US 501	Bike lanes	Durham	City/County
82	Orange Factory Rd. (SR 1628)	US 501	US 501 to Staggsville Rd.	Bike lanes	Durham	City/County
83	Page Rd. (SR 1973)	S. Miami Blvd.	T.W. Alexander Dr.	Bike lanes	Durham	City/County
84	Patrick Rd. (SR 1462)	US 501	Johnson Mill Rd.	Bike lanes	Durham	City/County
85	Patterson Rd. (SR 1811)	Cheek Rd.	NC 98	Bike lanes	Durham	City/County

No.	Facility Description	Begin Segment (Limits from)	End Segment (Limits to)	Facility Type	County	Municipality
86	Pickett Rd. (SR 1303)	Erwin Rd.	Cornwallis Rd.	Bike lanes	Durham	City/County
87	Pope Rd.	Ephesus Church Rd.	Old Chapel Hill Rd.	Bike lanes	Durham	City/County
88	Quail Roost Rd. (SR 1615)	US 501	Bahama Rd.	Bike lanes	Durham	City/County
89	Range Rd. (SR 1610)	Hampton Rd.	Cassam Rd.	Bike lanes	Durham	City/County
90	Red Mill Rd. (SR 1632)	Old Oxford Hwy	E. Geer St.	Bike lanes	Durham	City/County
91	Red Mountain Rd. (SR 1471)	US 501	Wilkins Rd.	Bike lanes	Durham	City/County
92	Rose of Sharon Rd. (SR 1404)	Cole Mill Rd.	Guess Rd.	Bike lanes	Durham	City/County
93	Ross Rd.	Junction Rd.	Chandler Rd.	Bike lanes	Durham	City/County
94	Rougemont Rd. (SR 1465)	Bill Poole Rd.	South Lowell Rd.	Bike lanes	Durham	City/County
95	Scott King Rd. (SR 1103)	Fayetteville Rd.	Grandale Dr.	Bike lanes	Durham	City/County
96	Sedwick Rd. (SR 1102)	Grandale Dr.	Alston Ave.	Bike lanes	Durham	City/County
97	Sherron Rd. (SR 1811)	Mineral Springs Rd.	NC 98	Bike lanes	Durham	City/County
98	Snow Hill Rd. (SR 1631)	US 501	Old Oxford Hwy.	Bike lanes	Durham	City/County
99	So-Hi Dr.	Northeast Creek Pkwy	Ellis Rd.	Bike lanes	Durham	City/County
100	South Lowell Rd. (SR 1464)	Guess Rd. (NC 157)	US 501	Bike lanes	Durham	City/County
101	South Miami Blvd. (SR 1959)	NC 54	US 70	Bike lanes	Durham	City/County
102	South Roxboro St. (SR 1146)	Lakewood Ave.	Hope Valley Rd. (NC 751)	Bike lanes	Durham	City/County
103	St. Mary's Rd. (SR 1002)	Mason Rd.	Orange County line	Bike lanes	Durham	City/County
104	Stadium Dr. (Stadium Dr. ext.)	Olympic Ave.	Horton Rd. (NW Parkway/Loop)	Bike lanes	Durham	City/County
105	Stagecoach Rd. (SR 1107)	Farrington Rd.	NC 751	Bike lanes	Durham	City/County
106	Staggsville Rd. (SR 1615)	Bahama Rd.	Old Oxford Hwy.	Bike lanes	Durham	City/County
107	Stallings Rd. (SR 1814)	Cheek Rd.	Cheek Rd. to Patterson Rd.	Bike lanes	Durham	City/County
108	Swift Ave.	Duke University Rd.	Main St.	Bike lanes	Durham	City/County
109	T.W.Alexander Dr. (SR 2028)	NC 55	Wake County line	Bike lanes	Durham	City/County
110	Umstead Rd. (SR 1449)	Guess Rd.	Cole Mill Rd.	Bike lanes	Durham	City/County
111	University Dr. (US 15/501 Bus)	Lakewood Ave.	Garrett Rd.	Bike lanes	Durham	City/County
112	US 15/501	Orange County line	University Dr.	Bike lanes	Durham	City/County
113	US 501 (Roxboro Rd., Roxboro St., US 501 Business)	Person County line	Lakewood Ave.	Bike lanes	Durham	City/County
114	W. Chapel Hill St.	Duke University Rd.	Duke St.	Bike lanes	Durham	City/County
115	Washington St.	Lyon St.	Corporation St.	Bike lanes	Durham	City/County
116	Wilkins Rd. (SR 1612)	Red Mountain Rd.	Bahama Rd.	Bike lanes	Durham	City/County
117	Woodcroft Pkwy	Hope Valley Rd.	Carpenter Fletcher Rd.	Bike lanes	Durham	City/County
1	Bolin Creek Bikeway	CHPD	Community Center	Bike lanes	Orange	CH
2	Booker Creek Rd	Honeysuckle Rd.	Old Oxford Rd.	Bike lanes	Orange	CH
3	Boundary St.	Country Club Rd.	Rosemary St.	Bike lanes	Orange	CH
4	Burning Tree Rd./Pinhurst Dr.	NC 54	Ephesus Church Rd.	Bike lanes	Orange	CH
5	Cameron Ave.	Pittsboro St.	Raleigh St.	Bike lanes	Orange	CH
6	Caswell-...-Sedgefield Dr.	Estes Dr.	Weaver Dairy Rd.	Bike lanes	Orange	CH
7	Culbreth Rd.	Smith Level Rd.	US 15-501 South	Bike lanes	Orange	CH
8	Curtis/Lakeshore/Honeysuckle	Estes Dr.	Weaver Dairy Rd.	Bike lanes	Orange	CH
9	Elliott Rd.	Curtis Rd.	E. Franklin St.	Bike lanes	Orange	CH

No.	Facility Description	Begin Segment (Limits from)	End Segment (Limits to)	Facility Type	County	Municipality
10	Ephesus Church Rd.	US 15-501	Farrington Rd.	Bike lanes	Orange	CH
11	Erwin Rd.	Weaver Dairy Rd.	Durham Co. line	Bike lanes	Orange	CH
12	Estes Dr.	US 15-501	N. Greensboro St.	Bike lanes	Orange	CH
13	Eubanks Rd.	Old NC 86	NC 86	Bike lanes	Orange	CH
14	Finley GC/Mason Farm Rds.	NC 54 East	NC 54 Bypass	Bike lanes	Orange	CH
15	Fordham Blvd.	Old Durham-CH Rd.	Culbreth Rd.	Bike lanes	Orange	CH
16	Franklin St.	Boundary St.	Old Durham CH-Rd.	Bike lanes	Orange	CH
17	Homestead Rd.	Airport Rd.	Old NC 86	Bike lanes	Orange	CH
18	Manning Dr.	NC 54 Bypass	S. Columbia St.	Bike lanes	Orange	CH
19	Mason Farm Rd.	Fordham Blvd.	S. Columbia St.	Bike lanes	Orange	CH
20	Merritt Mill Rd.	Cameron Ave.	NC 54 Bypass	Bike lanes	Orange	CH
21	Mt. Carmel Church Rd.	Chatham Co. line	Pittsboro Rd.(15501?)	Bike lanes	Orange	CH
22	NC 86	Columbia St.	Whitfield Rd.	Bike lanes	Orange	CH
23	Old Oxford Rd.	Old Oxford Rd.	to Erwin Rd.	Bike lanes	Orange	CH
24	Pinehurst Dr.	Pinehurst Dr.	Ephesus Church Rd.	Bike lanes	Orange	CH
25	Piney Mountain/Cedar Hills Cr.	Airport Rd.	Weaver Dairy Rd.	Bike lanes	Orange	CH
26	Pittsboro St.	Cameron Ave.	S. Columbia St.	Bike lanes	Orange	CH
27	Rogers Rd.	Homestead Rd.	Eubanks Rd.	Bike lanes	Orange	CH
28	Rosemary St.	Boundary St.	Carrboro city limits	Bike lanes	Orange	CH
29	Seawell School Rd.	Homestead Rd.	Estes Dr.	Bike lanes	Orange	CH
30	South Columbia Rd.	Airport Rd.	US 15-501 Bypass	Bike lanes	Orange	CH
31	South Raleigh Rd. (NC 54)	Country Club Rd.	Durham Co. line	Bike lanes	Orange	CH
32	South Rd./Raleigh Rd.	S. Columbia St.	Burning Tree Rd.	Bike lanes	Orange	CH
33	Sunrise Dr.	Whitfield Rd.	Weaver Dairy Rd.	Bike lanes	Orange	CH
34	Umstead Dr.	Estes Dr.	Airport Rd.	Bike lanes	Orange	CH
35	US 15501 Corridor	Old Durham CH-Rd.	Durham Co. line	Bike lanes	Orange	CH
36	US 15501 South	NC 54 Bypass	Chatham County Line	Bike lanes	Orange	CH
37	Weaver Dairy Rd.	NC 86	Erwin Rd.	Bike lanes	Orange	CH
38	Weaver Dairy Rd. Ext.	Homestead Rd.	NC 86	Bike lanes	Orange	CH
1	Ben Johnston Rd.	US 70/I-85 Connector	Dimmocks Mill Rd.	4' shoulders	Orange	Orange Co.
2	Brookhollow Rd.	Forrest Ave.	Lebanon Rd.	4' shoulders	Orange	Orange Co.
3	Buckhorn Rd.	Orange Grove Rd.	West Ten Rd.	4' shoulders	Orange	Orange Co.
4	Butler Rd.	NC 54	White Cross Rd.	4' shoulders	Orange	Orange Co.
5	Calvin St./Oconneechee/Margaret Ln.	Nash St.	Cameron St.	shared	Orange	Hillsborough
6	Cameron St.	Margaret Ln.	St. Mary's Rd.	shared	Orange	Hillsborough
7	Carr Store Rd.	NC 49	NC 86	4' shoulders	Orange	Orange Co.
8	Churton St.	Eno River	US 70 Bypass	shared	Orange	Hillsborough
9	Coleman Loop SR1334	Frank Perry Rd.	NC 86	4' shoulders	Orange	Hillsborough
10	Cornwallis Rd.	Durham County Line	Murphey School Rd.	4' shoulders	Orange	Orange Co.
11	Dairyland Rd.	Carrboro (Union Grove Ch. Rd.)	Orange Grove Rd.	4' shoulders	Orange	Orange Co.
12	Dimmocks Mill Rd.	Eno St.	I-40/I-85	shared	Orange	Hillsborough
13	Dimmocks Mill Rd.	I-40/I-85	Orange Grove Rd.	4' shoulders	Orange	Orange Co.
14	Dodsons Crossroads	Orange Grove Rd.	NC 54	4' shoulders	Orange	Orange Co.

No.	Facility Description	Begin Segment (Limits from)	End Segment (Limits to)	Facility Type	County	Municipality
15	Efland-Cedar Grove Rd.	Highland Farm Rd.	Carr Store Rd.	4' shoulders	Orange	Orange Co.
16	Elizabeth Brady Rd. & Ext.	US 70 A	St. Mary's Rd.	bike lanes	Orange	Hillsborough
17	Eno Mt. Rd.	Dimmocks Mill Rd.	Orange Grove Rd.	4' shoulders	Orange	Hillsborough
18	Exchange Park Ln.	Churton St.	Orange Grove Rd.	shared	Orange	Hillsborough
19	Faucette Mill Rd.	US 70 Bypass	Thompson Ct.	shared	Orange	Hillsborough
20	Faucette Mill Rd.	Thompson Ct.	Frank Perry Rd.	4' shoulders	Orange	Orange Co.
21	Forrest Ave.	Mt. Willing Rd.	Brookhollow Rd.	4' shoulders	Orange	Orange Co.
22	Frank Perry Rd.	Faucette Mill Rd.	Coleman Loop SR1332	4' shoulders	Orange	Orange Co.
23	Hassel St.	Margaret Ln.	Corbin St.	shared	Orange	Hillsborough
24	Highland Farm Rd.	Coleman Loop Rd.	Efland-Cedar Grove Rd.	4' shoulders	Orange	Orange Co.
25	Jones Ferry Rd.	Carrboro (Edmister Ln)	Chatham County Line	4' shoulders	Orange	Orange Co.
26	Lakeshore/Brownville/Bellvue/Eno	Latimer St.	Dimmocks Mill Rd.	shared	Orange	Hillsborough
27	Latimer St.	Nash St.	Lake Shore Dr.	shared	Orange	Hillsborough
28	Lawndale Ave.*	Torain St.**	Orange High School**	shared	Orange	Hillsborough
29	Lawrence Rd.	Old NC 10	St. Mary's Rd.	4' shoulders	Orange	Orange Co.
30	Lebanon Rd.	Brookhollow Rd.	Mill Creek Rd.	4' shoulders	Orange	Orange Co.
31	Mayo St.	Orange Grove Rd.	Churton St.	bike lane	Orange	Hillsborough
32	Mt. Herman Church Rd.	Murphey School Rd.	US 70	4' shoulders	Orange	Orange Co.
33	Mt. Sinai Rd.	NC 86	Durham County Line	4' shoulders	Orange	Orange Co.
34	Mt. Willing Rd.	West Ten Rd.	Forrest Ave.	4' shoulders	Orange	Orange Co.
35	Nash St.	Revere Rd.	Eno St.	shared	Orange	Hillsborough
36	NC 751	US 70	Durham County	4' shoulders	Orange	Orange Co.
37	NC 86 N	US 70 Bypass	Coleman Loop SR1334	shared	Orange	Hillsborough
38	New Sharon Church Rd.	St. Mary's Rd.	NC 157 (Guess Rd.)	4' shoulders	Orange	Orange Co.
39	Oakdale Dr.	Old NC 86/Churton St	Orange Grove Rd.	4' shoulders	Orange	Hillsborough
40	Old Greensboro Rd.	Carrboro (Sturbridge Ln)	Alamance County line	4' shoulders	Orange	Orange Co.
41	Old NC 86	Eubanks Rd.	Oakdale Dr.	4' shoulders	Orange	Orange Co.
42	Orange Grove Rd.	Dairyland Rd.	Buckhorn Rd.	4' shoulders	Orange	Orange Co.
43	Orange Grove Rd.	Old NC 86/Churton St.	Dodsons Crossroads	4' shoulders	Orange	Hillsborough
44	Pleasant Green Rd.	US 70	St. Mary's Rd.	4' shoulders	Orange	Orange Co.
45	Revere Rd./Corbin St.*	US 70 Bypass	Orange High School*	shared	Orange	Hillsborough
46	Sawmill Rd.	NC 86	Walnut Grove Church Rd.	4' shoulders	Orange	Orange Co.
47	Schley Rd.	St. Mary's Rd.	Walnut Grove Church Rd.	4' shoulders	Orange	Orange Co.
48	St. Mary's Rd.	Margaret Ln.	US 70 Bypass	shared	Orange	Hillsborough
49	St. Mary's Rd.	US 70 Bypass	New Sharon Ch. Rd.	4' shoulders	Orange	Orange Co.
50	US 70 Business*	Churton St.*	Lawrence Rd.	4' shoulders	Orange	Hillsborough
51	US 70 Bypass	NC 86	I-85 exit 170	4' shoulders	Orange	Orange Co.
52	US 70/I-85 Connector	West Ten Rd.	Ben Johnston Rd.	4' shoulders	Orange	Orange Co.
53	Walnut Grove Church Rd.	NC 86	Person County line	4' shoulders	Orange	Orange Co.
54	West Ten Rd.	US 70/I-85 Connector	Mattress Factory Rd.	4' shoulders	Orange	Orange Co.
55	Western Bypass	US 70 Bypass	NC 57	4' shoulders	Orange	Hillsborough
56	White Cross Rd.	Butler Rd.	Chatham County line	4' shoulders	Orange	Orange Co.
57	Whitfield Rd.	NC 86	Erwin Rd.	4' shoulders	Orange	Orange Co.

Recommended Bicycle Component



- Preferred Bicycle Option
- Streets
- Durham County Boundary
- Orange County Boundary
- Durham MPO Boundary



Section 6 – Schedule

The schedule for completing the 2025 Long-Range Transportation Plan (LRTP) and air quality conformity tasks is presented in the following table. Essentially, the schedule illustrates major milestones for the Plan adoption, public involvement, inter-agency consultation, and air quality conformity determination.

Completion date	milestone
October 16, 2002	<u>TCC</u> recommends fiscally-constrained Preferred Option of Long-Range Transportation Plan (LRTP).
October 23, 2002	<u>TAC</u> receives the draft fiscally-constrained Preferred Option of the LRTP.
November 6, 2002	<u>TAC</u> authorizes the release of the Draft MPO 2025 LRTP for 42-day (11/6/02 through 12/18/02) public review and comment period. This 42-day comment period is required in the MPO adopted Public Involvement Policy. Activities include a Citizens Advisory Council (CAC) meeting, public workshops and open houses throughout the planning area.
December 4, 2002	<u>TAC</u> holds public hearing on the draft 2025 LRTP.
December 18, 2002	Final day for <u>public</u> to submit comments for the draft 2025 LRTP.
December 18, 2002	<u>TAC</u> adopts of the Recommended DCHC-MPO 2025 LRTP, and the AQ Emissions Analysis commences
March 1, 2003	DCHC MPO is in <u>conformity lapse</u> , and therefore no projects can be authorized for federal funding until Final 2025 LRTP is completed.
March 19, 2003	Draft Air Quality (AQ) Emissions Analysis & conformity report. <u>Interagency</u> (NCDOT, USDOT – FTA & FHWA, & EPA) review and comments on AQ analysis and draft report (21 days).
March 19, 2003	<u>TAC</u> receives Final Draft of 2025 LRTP conformity analysis and report, and releases report for a 42-day public comment period. Activities include a Citizens Advisory Council (CAC) meeting, public workshops and open houses.
May 7, 2003	Final day for <u>public</u> to submit comments on conformity report.
May 7, 2003	<u>TAC</u> holds public hearing on the Air Quality Draft Report & Conformity Findings of 2025 LRTP.
May 14, 2003	<u>TAC</u> approves conformity findings for the Long-Range Transportation Plan (LRTP).
May 16, 2003	The <u>Lead Planning Agency</u> (City of Durham, Transportation Division) transmits official copies of Final 2025 LRTP to NCDOT, USDOT (FTA & FHWA) & EPA.
May 19, 2003	USDOT and EPA begin reviewing the 2025 LRTP and conformity
June 9, 2003	USDOT and EPA approve DCHC-MPO LRTP and Air Quality Conformity Determination. <u>2025 LRTP is valid, and federal funding lapse ends.</u>

Section 7– Proposed Outline of 2025 LRTP Report

This document provides the essential elements of the plan, which are depicted in the following outline under “Our Recommended Plan.” The complete recommended 2025 LRTP report will include the other elements shown in this outline, which provide a context, basis, and chronology for the plan elements.

About Our Home

- People (demographics)
- Economy
- Environment
- Our Challenge

How We Developed Our Plan

- Who is Responsible
 - Durham-Chapel Hill-Carrboro MPO (DCHC MPO)
 - DCHC MPO Goals and Objectives
- Quantitative – By the Numbers
 - Socio-Economic Forecast
 - Deficiency Analysis
 - Options Analysis (Tier 1, Tier 2, and Tier 3)
 - Triangle Regional Model (TRM)
- Qualitative – By the People
 - Public Outreach
 - Local Government Resolutions

Our Recommended Plan

- Highway
- Transit
- Fixed-Guideway Transit
- Bicycle/Pedestrian
- Transportation Demand Management (TDM)
- Intelligent Transportation Systems (ITS) and Transportation System Management (TSM)

Our Financial Plan

- Costs
- Revenues
- Non-Traditional Revenues

Other Factors in the Process

- FHWA Planning Factors
- Environmental Justice and Screening