

2040 MTP and CTP Alternatives Description -- Highways

Highways in Alternatives

A different set of highway projects are assumed in each transportation network:

Highway Intensive – This is the Comprehensive Transportation Plan (CTP) highway network. It includes most of the projects in the current 2035 Long Range Transportation Plan (2035 LRTP) plus over fifty additional highway projects that will be proposed for the CTP.

Transit Intensive – This includes most of the highway projects in the 2015 and 2025 horizon years of the current 2035 LRTP. Except for the NC 54 widening in Durham County, it does not include large scale highway projects that provide mobility in the same corridor as the proposed light rail transit system between Durham and Orange counties.

Moderate – This includes most of the highway projects in the current 2035 LRTP.

Presentation of Highways

This section presents a list of highway projects and some key detailed data for each project such as the proposed segments to be improved (“to” and “from”) and the estimated cost. The subheadings indicate the horizon year and plan for which the highway is proposed, and a set of three columns indicate whether or not the project is assumed in each of the transportation networks. The table is followed by three maps that show the location of the highway projects for each network.

There are several terms used in the “Proposed Improvement” that require a definition:

- *Widening* – through lanes are added
- *New Location* – there is no existing roadway; this is new alignment or roadway
- *Modernization* – turn lanes at needed junctures, bicycle and pedestrian facilities are added; no consistent through lane is added
- *TSM* – Transportation System Management; capacity improvements to intersections and interchanges, and other relatively less costly measures that reduce delays and improve safety on existing roads and intersections

**2040 MTP and CTP
Roadway Project List**

Project ID	Road Name	From	To	Existing # of Lanes	Proposed # of Lanes	Distance (miles)	Proposed Improvement	Project Total Cost (2012 \$)	Mode rate	Transit	Highway
2020 MTP											
1	Alexander Dr	Cornwallis Rd	NC 147	2	4	1.00	Widening	\$4,450,000	1	1	1
30	Hillandale Rd.	I-85	Carver	2	4	0.7	Widening	11941000	1	1	1
59	Miami Blvd.	Methodist Dr.	Angier Ave	2	5	0.72	Widening	(budget before 2012)	1	1	1
9	Carver St Ext	Armfield St	Old Oxford Rd	0	4	0.73	New Location	\$10,110,000	1	1	1
15	East End Connector (EEC)	NC 147	US 70 E; US 70:EEC to NC	0	4	2.50	New Location	\$153,981,250	1	1	1
202	Hopson Rd	Davis Dr	NC 54	2	4	0.67	Widening	\$6,026,000	1	1	1
43	I-40	US 15-501	NC 86	4	6	4.10	Widening	\$25,957,093	1	1	1
44	I-40	NC 86	I-85	4	6	7.32	Widening	\$46,342,907	1	1	1
70.4	I-40/ NC 54 ramp	Farrington Rd.	I-40	0	1	0.20	New Location	\$1,600,000	1	1	1
75	NC 55 (Alston Ave)	NC 147	NC 98	2	4	1.00	Widening	\$31,024,000	1	1	1
92.1	Roxboro/Latta/Infinity Intersection	Latta Rd.	Infinity Rd.	4	6	0.50	Widening	\$4,100,000	1	1	1
97	Smith Level Rd	Rock Haven Rd	NC 54 bypass	2	3	0.60	Widening	\$8,199,000	1	1	1
98	South Columbia St	NC 54	Manning Dr	2	2	0.70	Modernization	\$7,860,000	1	1	1
119	Weaver Dairy Rd	NC 86	Erwin Rd	2	3	2.80	Widening	(budget before 2012)	1	1	1
								\$311,591,250			
2030 MTP											
40	Carolina North network	Carolina North Campus		0	2	2.16	New Location	\$16,851,580	1	1	1
12	Cornwallis Rd	MLK	Alexander Dr	2	4	1.07	Widening	\$10,346,536	1	1	1
221	S Elliot Rd Ext	Fordham Blvd	Ephesus Church Rd	0	2	0.25	New Location	\$1,950,414	1	1	1
17	Estes Dr	NC 86	Seawell School Rd	2	2	0.71	Modernization	\$3,123,567	1	1	1
17.1	Estes Dr	Seawell School Rd	Greensboro Rd	2	2	0.93	Modernization	\$4,091,433	1	1	1
200	Eubanks Rd	Old NC 86	NC 86	2	2	2.64	Modernization	\$9,652,000	1	1	1
222	Eubanks Rd	Millhouse Rd	NC 86	2	4	0.80	Widening	\$7,735,728	1	1	1
201	Farrington Rd realignment	NC 54	Wendell Rd	0	2	0.85	New Location	\$6,631,409	1	0	1
23	Fayetteville Rd	Woodcroft Pkwy	Cornwallis Rd	2	4	2.31	Widening	\$21,314,000	1	1	1
24.11	Garrett Rd	NC 751	Old Durham Rd	2	2	2.10	Modernization	\$20,570,004	1	1	1
35	Homestead Rd	High School Rd	NC 86	2	2	1.70	Modernization	\$9,102,000	1	1	1
36	Homestead Rd	Old NC 86	High School Rd	2	2	1.47	Modernization	\$9,691,637	1	1	1
203	I-40/NC 54 interchange	I-40	NC 54	6	7	0.35	Interchange	(part of #69.1)	1	0	1
48	I-85	I-40	the Durham Co line	4	6	7.35	Widening	\$214,665,000	1	1	1
49	I-85	US 70	Red Mill Rd	4	6	3.50	Widening	\$102,515,000	1	1	1
50.11	Jack Bennet Rd/Lystra Rd	US 15-501 South	Farrington Mill/Point Rd	2	2	2.77	Modernization	\$18,316,754	1	1	1
223	Legion Rd Ext	Legion Rd	Fordham Blvd	0	2	0.10	New Location	\$780,166	1	1	1
69.1	NC 54	I-40 Interchange	NC 751	2	4	3.91	Widening	\$115,400,000	1	1	1

8/17/12

Highway 7-2

**2040 MTP and CTP
Roadway Project List**

Project ID	Road Name	From	To	Existing # of Lanes	Proposed # of Lanes	Distance (miles)	Proposed Improvement	Project Total Cost (2012 \$)	Mode rate	Transit	Highway
69.2	NC 54	NC 751	Fayetteville	2	4		Widening	(see #69.1)	1	1	1
69.3	NC 54	Fayetteville	Barbee	2	4		Widening	(see #69.1)	1	1	1
69.4	NC 54	Barbee	NC 55	2	4		Widening	(see #69.1)	1	1	1
70	NC 54 (widening; superstreet)	I-40	Barbee Chapel Rd	4	6	1.68	Widening	\$16,024,000	1	0	1
70.1	NC 54 superstreet (east)	Meadowmont Dr	Barbee Chapel Rd	6	6	0.20	Improvements	\$4,300,000	1	0	1
70.2	NC 54/Farrington Rd grade separ	Farrington Rd	NC 54	0	6	0.00	Improvements	\$6,500,000	1	0	1
73	NC 54/US 15-501 Bypass	NC 54	US 15-501	4	6	2.12	Widening	\$25,180,578	1	0	1
77.1	NC 751	S Roxboro St	NC 54	2	4	0.70	Widening	\$10,589,000	1	1	1
89.3	Orange Grove Connector	Orange Grove Rd	US 70	0	2	0.40	New Location	\$4,950,000	1	1	1
220	Purefoy Rd Ext	Sandberg Ln	Weaver Dairy Rd	0	2	0.60	New Location	\$4,680,995	1	1	1
92	Roxboro Rd (501N)	Duke St	Goodwin Rd	4	6	2.65	Widening	\$28,480,000	1	1	1
94	Roxboro St	Cornwallis Rd	MLK Pkwy	0	4	1.10	New Location	\$20,489,000	1	1	1
102	SW Durham Dr	Meadowmont Dr	I-40	0	2	1.55	New Location	\$20,000,000	1	0	1
106	SW Durham Dr	15-501	Mt Moriah Rd	0	2	0.35	New Location	\$3,922,805	1	1	1
116	US 70	Lynn Rd (Durham Co.)	Aviation Pkwy Ext (Wake C	4	6	4.11	Widening	\$237,400,000	1	1	1
123.11	Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	0	2	0.27	New Location	\$2,504,002	1	1	1
204	US 15-501/NC 54 Interchange	US 15-501	NC 54	4	4	0.30	Improvements	\$17,300,000	1	0	1
								\$975,057,608			
2040 MTP											
5	Alston Ave Ext	Holloway St	Old Oxford/Roxboro	0	2	3.50	New Location	\$27,305,801	1	0	1
22.1	Fayetteville Rd	Renaissance Pkwy	NC 751	2	4	1.90	Widening	\$18,426,000	1	0	1
26.11	Globe Rd Ext (Brier Creek Pkwy)	Miami Blvd	Wake County Line	0	2	2.18	New Location	\$17,007,613	1	0	1
45	I-40 HOV	Wake County Line	NC 54	0	2	10.63	New Location	\$631,410,442	1	0	1
53	Leesville Rd Ext	Northern Parkway	US 70/Page Rd Ext	0	4	0.81	New Location	\$6,319,343	1	0	1
64.13	NC 147 General purpose widening	East End Conn	I-40	4	6	4.78	Widening	\$44,500,000	1	0	1
70.3	NC 54 superstreet (west)	Burning Tree	Meadowmont Dr	6	6	0.55	Improvements	\$4,900,000	1	0	1
77.2	NC 751	NC 54	Renaissance Pkwy	2	4	1.23	Widening	\$11,915,000	1	0	1
77.3	NC 751	Renaissance Pkwy	Fayetteville/Scott King Rd	2	4	1.94	Widening	\$17,393,000	1	0	1
81.1	NC 98 (Holloway St)	Oak Grove/Nichols Farm	Wake County Line	2	4	5.94	Widening	\$57,437,780	1	0	1
83	Northern Durham Pkwy	US 70 E	I 85 N	0	4	6.40	New Location	\$71,731,296	1	0	1
84	Northern Durham Pkwy	I 85 North	Old Oxford Hwy	0	4	2.40	New Location	\$66,693,606	1	0	1
85	Northern Durham Pkwy	Old Oxford Hwy	Roxboro Rd	0	2	5.38	New Location	\$35,068,780	1	0	1
86	Old NC 86	I-40	Lafayette Dr	2	4	0.80	Widening	\$7,735,728	1	0	1
87	Old NC 86	Lafayette Dr	US 70 Business	2	4	1.70	Widening	\$16,438,422	1	0	1
89	Olive Branch Rd Ext	NC 98	Wake County Line	0	2	2.22	New Location	\$17,319,680	1	0	1

8/17/12

Highway 7-3

**2040 MTP and CTP
Roadway Project List**

Project ID	Road Name	From	To	Existing # of Lanes	Proposed # of Lanes	Distance (miles)	Proposed Improvement	Project Total Cost (2012 \$)	Mode rate	Transit	Highway
106.1	SW Durham Dr	15-501	Mt Moriah Rd	2	4	0.35	Widening	\$3,922,805	1	1	1
104	SW Durham Dr	Witherspoon Rd	Old Chapel Hill Rd	2	4	0.62	Widening	\$5,995,189	1	1	1
113	US 15-501 (Freeway conversion)	US 15-501 Bypass	I-40	6	6	2.39	Improvements	\$138,677,000	1	0	1
114	US 15-501 Bypass	Pickett Rd	Morreene Rd	4	6	2.69	Widening	\$33,696,567	1	0	1
								\$1,233,894,054			
Comprehensive Transportation Plan											
2.1	Alexander Dr	NC 147	Miami Blvd	4	6	0.70	Widening	\$11,531,075	0	0	1
4	Alexander Dr	NC 54	Cornwallis Rd	2	4	1.89	Widening	\$32,389,388	0	0	1
5.3	Barbee Chapel Rd	NC 54	Farrington Mill Rd	2	4	1.60	Widening	\$13,750,642	0	0	1
8.2	Carpenter Fletcher	Woodcroft Pewit Ext	NC 55	2	4	0.60	Widening	\$5,156,491	0	0	1
13.11	Cornwallis Rd Ext	Miami Blvd	Chin Page Rd	0	2	0.54	New Location	\$4,212,895	0	0	1
14.1	Duke St (North)	I-85	N Roxboro split	4	6	2.30	Widening	\$37,887,819	0	0	1
205	Erwin Rd	NC 751	US 15-501	2	2	5.66	Modernization	\$22,977,000	0	0	1
19	Farrington Mill Rd	Jack Bennett Rd	Durham Co line	2	2	2.42	Modernization	\$6,753,425	0	0	1
20	Farrington Mill Rd	Barbee Chapel Rd	Chatham Co line	2	2	2.04	Modernization	\$5,684,339	0	0	1
21	Farrington Rd	Barbee Chapel Rd	Stagecoach Rd	2	4	0.40	Widening	\$1,120,891	0	0	1
24.12	Garrett Rd	Old Durham Rd	US 15-501	2	2	1.00	Modernization	\$20,570,004	0	0	1
27	Glover Rd	Glover Rd/NC 147 interchan	Angier	2	4	0.64	Widening	\$18,289,000	0	0	1
28.11	Glover Rd	Angier	US 70	0	2	0.59	New Location	\$4,602,978	0	0	1
31	Hillandale Rd	Carver	Horton Rd	2	4	1.74	Widening	\$16,825,208	0	0	1
39	Horton Rd	Duke St	Hillandale Rd	2	2	1.90	Modernization	\$18,372,354	0	0	1
41	I-40/Farrington Rd interchange	I-40	Farrington Interchange	0	0	0.20	New Location	\$28,700,475	0	0	1
45.2	I-40 HOV/HOT	NC 54	US 15-501	6	8	2.70	New Location	\$40,500,000	0	0	1
45.3	I-40 HOV/HOT	US 15-501	NC 86	6	8	4.20	New Location	\$63,000,000	0	0	1
49.1	I-85 HOV/HOT	US 70	Red Mill Rd	6	8	5.68	Widening	\$232,183,373	0	0	1
49.2	I-85	Red Mill Rd	Durham/Granville county lin	6	8	1.20	Widening	\$49,051,844	0	0	1
206	I-85/US 70 Connector	I-85 (Interchange improvem	US 70	4	4	0.41	TSM	\$2,446,000	0	0	1
52	Latta Rd	Guess Rd	Roxboro Rd	2	2	1.20	Modernization	\$11,603,592	0	0	1
57	Lynn Rd Ext	US 70	Existing Lynn Rd	0	2	1.09	New Location	\$8,503,807	0	0	1
207	Lystra Rd	US 15-501	Jack Bennet Rd	2	2	4.55	Modernization	\$10,300,000	0	0	1
58	Mason Farm Rd Realignment	Near S Columbia St		2	2	1.10	New Location	\$17,186,404	0	0	1
60	Midland Terrace	NC 98	Geer St	0	2	1.80	New Location	\$14,042,984	0	0	1
61	Midland Terrace	Dearborn	Old Oxford Rd/Hamlin Junc	0	2	0.95	New Location	\$7,411,575	0	0	1
63	MLK Pkwy (NC 55 interchange)	NC 55	Cornwallis Rd connector	0	4	0.49	New Location	\$30,267,000	0	0	1
64.11	NC 147 General purpose widening	Alston Ave	East End Connector	4	6	1.84	Widening	\$28,698,063	0	0	1

8/17/12

Highway 7-4

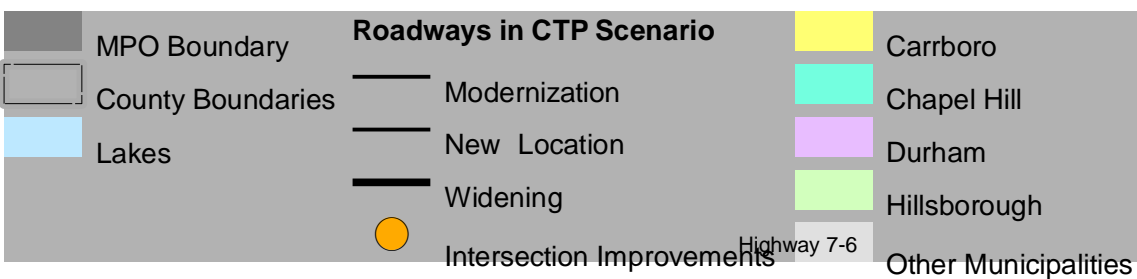
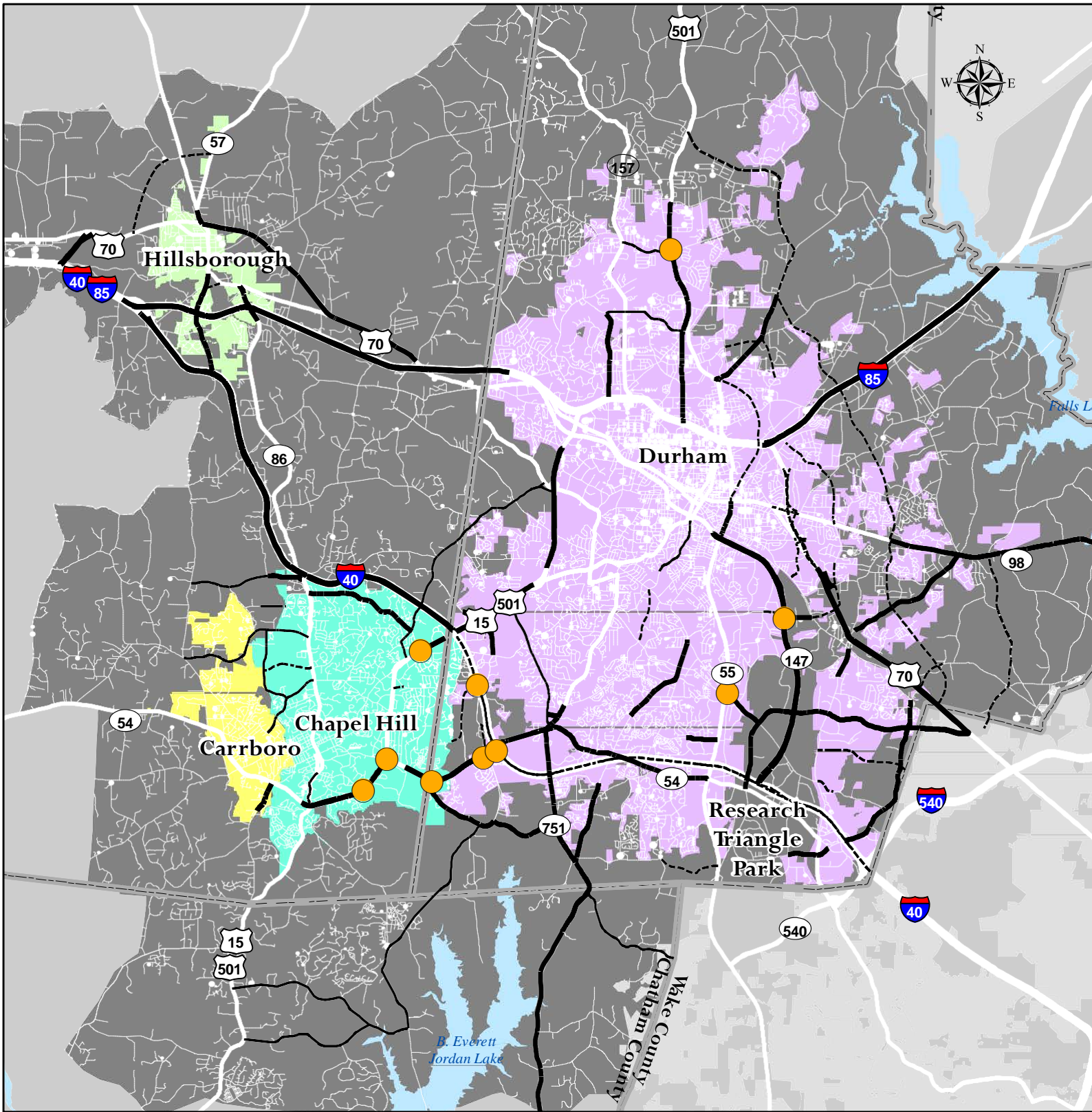
**2040 MTP and CTP
Roadway Project List**

Project ID	Road Name	From	To	Existing # of Lanes	Proposed # of Lanes	Distance (miles)	Proposed Improvement	Project Total Cost (2012 \$)	Mode rate	Transit	Highway
64	NC 147 HOV/HOT	Alston Ave	East End Connector	4	6	1.84	Widening	\$75,214,332	0	0	1
65	NC 147 HOV/HOT	East End Conn	I-40	0	2	4.78	Widening	\$195,393,754	0	0	1
208	NC 54/Barbee Chapel Rd intercha	NC 54	Barbee Chapel Rd	0	2	0.20	Interchange	\$9,200,000	0	0	1
209	NC 54/Falconbridge interchange	NC 54	Falconbridge Rd	0	4	0.20	Interchange	\$9,800,000	0	0	1
76	NC 751	US 64 (MAB)	Durham Co. line	2	4	7.00	Widening	\$42,550,690	0	0	1
78	NC 751	O'Kelly Chapel Rd	Fayetteville/Scott King Rd	2	4	0.74	Widening	\$6,359,672	0	0	1
80	NC 86	Old NC 10	US 70 Business	2	4	0.90	Widening	\$11,025,250	0	0	1
81	NC 86	US 70 Bypass	NC 57	2	4	0.42	Widening	\$3,267,000	0	0	1
85.2	O'Kelly Chapel Rd	NC 751	Wake Co. line	2	2	2.90	Modernization	\$11,460,314	0	0	1
88	Old Oxford Rd	Roxboro Rd	Northern Durham Parkway	2	4	2.51	Widening	\$24,270,847	0	0	1
90	Page Rd	I-40	Page Rd Ext	2	4	3.27	Widening	\$31,619,788	0	0	1
91	Riddle Rd Ext	Ellis Rd	NC 147	0	2	0.49	New Location	\$3,822,812	0	0	1
94.1	Roxboro St South	Summit	E. Lakewood	2	2	1.50	Modernization	\$12,891,227	0	0	1
95.11	Scott King Rd	Grandale Dr	Hopson Rd	0	2	1.30	New Location	\$10,142,155	0	0	1
210	Seawell School Rd	Estes Dr	Homestead Rd	2	2	1.91	Modernization	\$7,548,000	0	0	1
96.1	Sherron Rd	US 70	NC 98	2	4	2.83	Widening	\$27,365,138	0	0	1
101	Stagecoach Rd	Farrington Mill Rd	NC 751	2	4	1.96	Widening	\$18,070,177	0	0	1
107.1	T. W. Alexander Dr	Miami Blvd	US 70	4	6	3.40	Widening	\$39,771,235	0	0	1
211	US 15-501 Superstreet	Sage Rd	E Lakeview Dr	4	4	0.65	TSM	\$2,178,000	0	0	1
212	US 15-501/Manning Interchange	Manning Dr	Manning Dr	4	4	0.20	TSM	\$35,335,000	0	0	1
117	US 70 Bypass	NC 86	I-85 (exit 170)	2	4	7.80	Widening	\$21,857,378	0	0	1
120	Western Bypass	US 70	NC 86	0	2	2.60	New Location	\$14,300,897	0	0	1
121	Western Bypass	NC 86	Stroud Creek Rd	0	2	0.30	New Location	\$1,650,103	0	0	1
123	Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	2	4	0.27	Widening	\$2,320,421	0	0	1
								\$1,381,432,816			

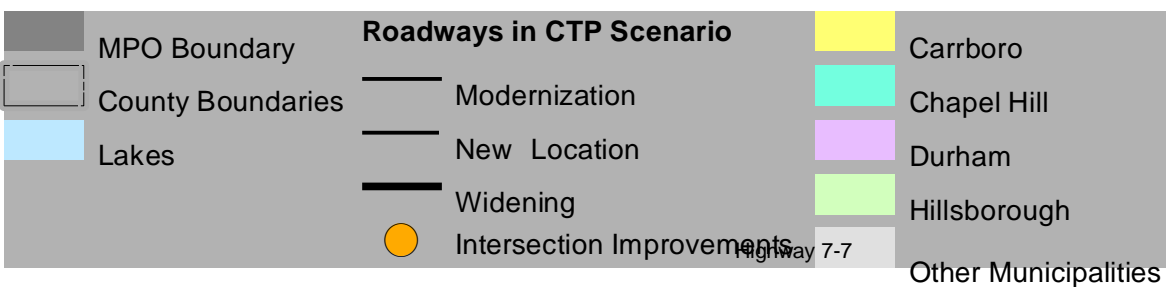
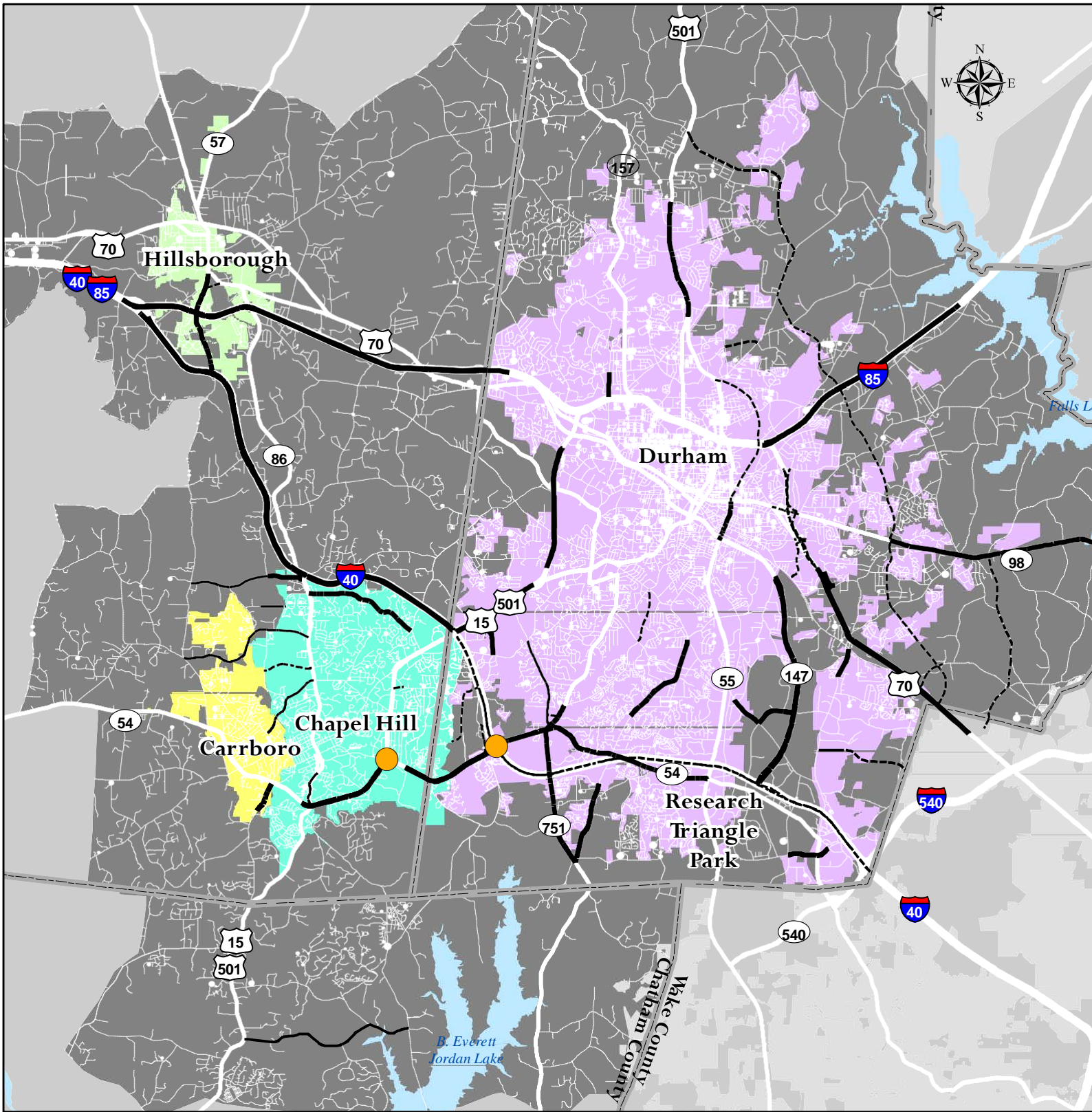
8/17/12

Highway 7-5

Durham Chapel Hill Carrboro
Metropolitan Planning Organization
Roadway Improvements in Highway Intensive Network

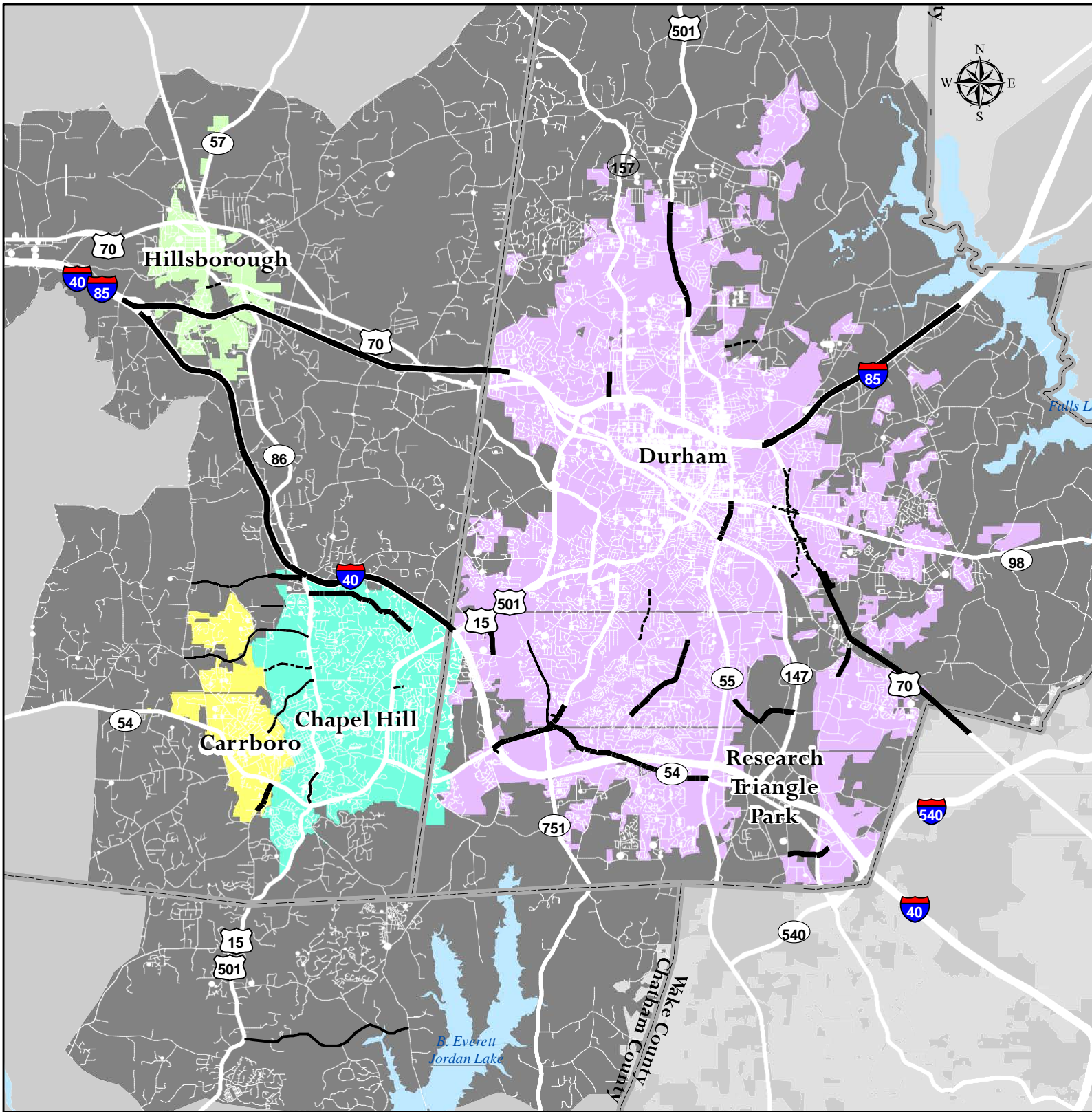


Durham Chapel Hill Carrboro
Metropolitan Planning Organization
Roadway Improvements in Moderate Network



August 17, 2012

Durham Chapel Hill Carrboro
Metropolitan Planning Organization
Roadway Improvements in Transit Intensive Network



MPO Boundary	Roadways in CTP Scenario	Carrboro
County Boundaries	Modernization	Chapel Hill
Lakes	New Location	Durham
	Widening	Hillsborough
		Other Municipalities
		Highway