

Appendix D

Financial Analysis

Appendix D Financial Analysis

Figure 10a shows the forecasted revenues for the Greensboro Urban Area 2035 Transportation Plan. The figure represents revenues for highway, transit, and maintenance in year of expenditure dollars.

Figure 10a — 2035 LRTP Revenue Forecasts

2035 LRTP Revenue Forecast (In Thousands of Dollars)								
Period	Federal and State Revenues (TIP)		State	Local Revenues				Totals
	Highway	Transit	Maintenance	GTA	PART	Powell Bill	Bonds	
2009	96,310	36,440	38,600	24,300	8,960	15,990	9,900	230,500
2010	61,270	9,120	20,760	12,780	3,860	8,000	0	115,790
2011-2012	91,730	36,050	44,680	26,420	7,760	15,990	0	222,630
2013-2015	283,610	30,750	75,750	41,690	11,520	23,990	178,160	645,470
2016-2025	993,170	110,590	349,880	155,210	41,650	79,970	164,240	1,894,710
2026-2035	782,850	159,240	569,920	171,630	45,870	79,970	136,500	1,945,980
Totals	2,308,940	382,190	1,099,590	432,030	119,620	223,910	488,800	5,055,080

Costs were developed for capital, operation, and maintenance. Capital costs are separated into roadway, transit, and non-motorized (bicycle and pedestrian) modes. The costs for each are summarized in Figure 10b.

Figure 10b – 2035 LRTP Cost Forecasts

2035 LRTP Costs Forecast (In Thousands of Dollars)							
Period	Capital			Operating & Maintenance			Totals
	Highway	Transit	Non-Motorized	State Roads	Local Roads	Transit	
2009	100,370	31,340	5,600	38,600	15,990	38,360	230,260
2010	61,270	7,780	1,630	20,760	8,000	17,970	117,410
2011-2012	91,640	31,160	0	44,680	15,990	39,070	222,540
2013-2015	461,770	22,060	58,360	75,750	23,990	60,830	702,760
2016-2025	1,139,310	43,930	48,040	349,880	79,970	238,320	1,899,450
2026-2035	909,520	54,260	42,230	569,920	79,970	307,690	1,963,590
Totals	2,763,880	190,530	155,860	1,099,590	223,910	702,240	5,136,010

All roadway investments were assigned to a network year based on current status, expected project development timelines, and relative need. Figures 10c, 10d, 10e, 10f, 10g, and 10h list the roadway projects by the horizon year in which they are projected to complete construction. Maps 4-4, 4-5, 4-6, 4-7, and 4-8 in Chapter 4 display the location of projects for each horizon year.

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Figure 10c - 2009 Project Costs

2009												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
	T003	Federal	R-2309	US 220	Horse pen Creek Rd. to US 220-NC 68 Connector (R-2413) (see Map ID D1) <i>Mitigation & Right-of-way Only</i>	6.3	2 lane	2 lane	Yes	Yes		9,987,548
	T004	Federal	U-2412 B	High Point Road	Vickrey Chapel Rd. to Hilltop Rd. (see Map ID D2) <i>Right-of-way Only</i>	3.8 / 7.8	3 lane	3 lane	Yes	Yes		11,686,500
	T005	Federal	R-2611	West Market St.	NC 68 to Bunker Hill Rd. in Colfax (see Map ID D3) <i>Right-of-way & Utility Only</i>	3.6	2 lane	2 lane	Yes	Yes		10,639,125
	T006	Federal	U-4006	Bridford Parkway Extension	Hornaday Rd. to Burnt Poplar Rd. (see Map ID C1) <i>Mitigation & partial construction</i>	1.1	N/A	4 lane divided	Yes	No		5,730,795
	T007	Federal	R-2612 A	US 421	Woody Mill and Neelley Rd. realignment and Interchanges (see Map ID D4 or D5) <i>Mitigation & Right-of-way (Sect. A) Only</i>	N/A	N/A	N/A	No	Yes	Yes (interchange)	2,146,568
	T001	Federal	U-4711	Greensboro Signal / ITS System	Replacement and Expansion	N/A	N/A	N/A	No	No	Yes	26,515,125
	T011	Federal	W-5114	NC 68	East Harrell Road to Bartonshire Drive. Add center turn lane. (see Map ID B1) <i>Right-of-way Only</i>	0.4	2	2	No	N/A		57,330
A1	L001	Local		Creek Ridge Road	Rehobeth Church Rd. to Randleman Rd.	1.2	2 lane	3 lane	Yes	No		6,174,000
A2	L002	Local	PO4160	Hornaday Rd. Extension	Hornaday Rd. to Chimney Rock Rd.	0.6	N/A	3	Yes	No		4,740,750
	T012	State	R-2413	US 220 / NC 68 Connector	NC 68 / US 220 Intersection to Pleasant Ridge Rd. (see Map ID D32 or E43) <i>Mitigation Only</i>	12.4	N/A	N/A	No	Yes		3,828,983
	T014	State	U-2524 AE	Western Urban Loop	Interchange at High Point Rd. Relocation (U-2412B) (see Map ID D34) <i>Right-of-way Only</i>	N/A	N/A	N/A	No	Yes		1,102,500
A3	T002	State	U-4750	Hornaday Rd. Bridge	Grade Separation over Greensboro Urban Loop	N/A	N/A	3	Yes	No		7,056,000
	T053	State	U-2525 B	Eastern Urban Loop	US 29 to US 70 (see Map ID E44) <i>Right-of-way Only</i>	4.6	N/A	N/A	No	Yes		8,489,250
N/A	T015	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Yes	N/A		1,275,593
N/A	T016	Various	Various (W, SI)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Yes	N/A		424,463
N/A	T017	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	No	N/A		1,647,797
N/A	T018	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	Yes	N/A		4,941,405
N/A	T019	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	No	N/A		76,841,259
N/A	T020	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	Yes	N/A		Included in B35 and B37
N/A	T079	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	Yes	N/A		42,553,102

Figure 10d - 2010 Project Costs

2010												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
BI	T011	Federal	W-5114	NC 68	East Harrell Road to Bartonshire Drive. Add center turn lane. (see 2009 for remainder of project)	0.4	2	3	No	N/A		1,041,863
	T003	Federal	R-2309	US 220	Horse pen Creek Rd. to US 220-NC 68 Connector (R-2413) (see Map ID D1) <i>Partial Construction</i>	6.3	2 lane	2 lane	Yes	Yes		14,782,871
	T004	Federal	U-2412 B	High Point Road	Vickrey Chapel Rd. to Hilltop Rd. (see Map ID D2) <i>Right-of-way only; remainder in High Point MPO</i>	3.8 / 7.8	3 lane	3 lane	Yes	Yes		12,270,825
	T005	Federal	R-2611	West Market St.	NC 68 to Bunker Hill Rd. in Colfax (See Map ID D3) <i>Mitigation only</i>	3.6	2 lane	2 lane	Yes	Yes		81,034
	T012	State	R-2413 C	NC 68 / US 220 Connector	NC 68 / US 220 Intersection to Haw River (see Map ID D32) <i>Partial Construction</i>	3.9/12.4	N/A	4 lane freeway	No	Yes		14,933,363
	T012	State	R-2413 A/B	NC 68 / US 220 Connector	Brookbank Rd. to Haw River (see Map ID D32) <i>Right-of-way only</i>	7.5/12.4	N/A	4 lane freeway	No	Yes		10,534,388
	T053	State	U-2525 B	Eastern Urban Loop	US 29 to US 70 (see Map ID E49) <i>Mitigation and Right-of-way</i>	12.6	N/A	6 lane freeway	No	Yes		13,095,054
N/A	T015	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Yes	N/A		1,339,372
N/A	T016	Various	Various (W, S)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Yes	N/A		445,686
N/A	T017	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	No	N/A		1,730,186
N/A	T018	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	Yes	N/A		5,188,475
N/A	T019	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	No	N/A		29,813,943
N/A	T020	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	Yes	N/A		Included in B35 and B37
N/A	TO79	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	Yes	N/A		44,680,757

Figure 10e - 2012 Project Costs

2012												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
CI	T006	Federal	U-4006	Bridford Parkway Extension	Hornaday Rd. to Burnt Poplar Rd. (see 2009 for remainder of project)	1.1	N/A	4 lane divided	Yes	No		12,252,303
	T003	Federal	R-2309	US 220	Horse pen Creek Rd. to US 220-NC 68 Connector (R-2413) (see Map ID D1) <i>Partial Construction</i>	6.3	2 lane	2 lane	Yes	Yes		16,298,116
	T004	Federal	U-2412 B	High Point Road	Vickrey Chapel Rd. to Hilltop Rd. (see Map ID D2) <i>Mitigation and partial construction; remainder in High Point MPO</i>	3.8 / 7.8	3 lane	3 lane	Yes	Yes		11,409,957
	T005	Federal	R-2611	West Market St.	NC 68 to Bunker Hill Rd. in Colfax (See Map ID D3) <i>Partial Construction</i>	3.6	2 lane	2 lane	Yes	Yes		11,827,301
	T007	Federal	R-2612 B	US 421	Neelley Rd. and Williams Dairy Rd. realignment and Interchange; (see Map ID D4 or D5) <i>Right-of-way only</i>	0.6	2 lane	2 lane	No	Yes	Yes (interchange)	3,280,044
	T012	State	R-2413 C	NC 68 / US 220 Connector	NC 68 / US 220 Intersection to Haw River (see Map ID D32) <i>Partial Construction</i>	3.9/12.4	N/A	4 lane freeway	No	Yes		32,928,064
	T012	State	R-2413 A/ B	NC 68 / US 220 Connector	Brookbank Rd. to Haw River (see Map ID D32) <i>Right-of-way only</i>	7.5/12.4	N/A	4 lane freeway	No	Yes		11,614,162
N/A	T015	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Yes	N/A		1,476,658
N/A	T016	Various	Various (W, S)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Yes	N/A		491,368
N/A	T017	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	No	N/A		1,907,530
N/A	T018	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	Yes	N/A		5,720,294
N/A	T019	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	No	N/A		89,635,548
N/A	T020	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	Yes	N/A		Included in B35 and B37
N/A	TO79	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	Yes	N/A		49,260,535

Figure 10f - 2015 Project Costs

2013-2015												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
D1	T003	Federal	R-2309	US 220	Horse pen Creek Rd. to US 220-NC 68 Connector (R-2413) (see 2009, 2010, and 2012 for remainder of project)	6.3	2 lane	4 lane divided	Yes	Yes		18,867,106
D2	T004	Federal	U-2412 B	High Point Road	Vickrey Chapel Rd. to Hilltop Rd. (see 2009, 2010, and 2012 for remainder of project); remainder in High Point MPO	3.8 / 7.8	3 lane	6 lane divided	Yes	Yes		23,343,796
D3	T005	Federal	R-2611	West Market St.	NC 68 to Bunker Hill Rd. in Colfax (see 2009, 2010, and 2012 for remainder of project)	3.6	2 lane	4 lane divided	Yes	Yes		6,845,051
D4	T007	Federal	R-2612 A	US 421	Woody Mill and Company Mill Rd. realignment and Interchange; (see 2009 for remainder of project)	0.4	2 lane	2 lane	No	Yes	Yes (interchange)	23,787,033
D5	T007	Federal	R-2612 B	US 421	Neelley Rd. and Williams Dairy Rd. realignment and Interchange; (see 2009 for remainder of project)	0.6	2 lane	2 lane	No	Yes	Yes (interchange)	24,185,946
D6	T004	Federal	U-2412 B	Mackay Road	High Point Rd. to Atwater Drive	0.2 / 7.8	2 lane	5 lane	Yes	No		Included in funding for project B23
D7	T009	Federal	Bond Candidate	Norwalk Street Extension	Existing Norwalk St. to Boston St. (includes grade separation)	0.3	N/A	3 lane	Yes	No		7,535,023
D8	T010	Federal	U-4757	Market Street	Intersection Improvements at Gallimore Dairy Rd. and Friendly Ave.	N/A	N/A	N/A	Yes	N/A		2,954,911
D9	L003	Local		Sandy Ridge Road	I-40 to West Market St.	1.0	2 lane	4 lane divided	Yes	Yes		8,273,750
D10	L004	Local	P03879	Lake Jeanette Road	Lawndale Ave. to N Elm St.	2.0	2-3 lane	2 lane divided, 3	Yes	No		7,535,023
D11	L005	Local	Bond Candidate	Alamance Church Road	Martin Luther King Jr. Dr. to City Limits	1.6	2 lane	4 lane divided	Yes	No		7,387,277
D12	L006	Local	Bond Candidate	Florida Street Extension	East Lee St. to McConnell Rd.	0.5	N/A	4 lane divided	Yes	Yes		8,126,005
D13	L007	Local	Bond Candidate	Horse pen Creek Road	New Garden Rd. to Battleground Ave.	3.4	2 lane	4 lane divided	Yes	No		32,636,991
D14	L008	Local	P03741	New Garden Road	Jefferson Rd. to Brassfield Rd.	0.8	2 lane	4 lane divided	Yes	Yes		6,205,313
D15	L009	Local	P04556	Mackay Road	Atwater Drive to Williamsborough Lane	0.7	2 lane	5 lane	Yes	No		4,136,875
D16	L010	Local	PO4554	Battleground Avenue	Intersection Improvements at Benjamin Prkwy. and Cone Blvd.	N/A	5 lane	N/A	Yes	N/A		2,216,183
D17	L011	Local	PO4553	Battleground Avenue	Intersection Improvements at Westridge Road	N/A	5 lane	N/A	Yes	N/A		5,171,094
D18	L012	Local	PO4263	Battleground Avenue	Intersection Improvements at Brassfield Drive	N/A	5 lane	N/A	No	N/A		523,019
D19	L013	Local	Bond Candidate	Stanley Road	Koger Blvd. to Hilltop Rd.	1.1	2 lane	5 lane	Yes	No		10,046,697
D20	L014	Local	P04552	Church Street	Wendover Ave. to Cone Blvd.	1.8	3 lane	4 lane divided-5	Yes	No		17,241,905
D21	L015	Local	Bond Candidate	Vandalia Road	Elm-Eugene St. to Pleasant Garden Rd.	1.4	2 lane	5 lane	Yes	No		12,262,880
D22	L016	Local	P03880	Merritt Drive	I-40 to High Point Rd.	1.0	3 lane	4 lane divided	Yes	No		7,682,768
D23	L017	Local		East Cone Boulevard Extension	Existing Cone Blvd. to Nealtown Rd. Extension (includes southern portion of Nealtown Rd. Extension)	N/A	N/A	2	Yes	Yes		11,967,389
D24	L018	Local	Bond Candidate	Church Street	Streetscape, Washington St. to Summit Ave.	0.4	N/A	N/A	Yes	No		7,387,277
D25	L019	Local	Bond Candidate	East Cone Boulevard Extension (Phase II)	Nealtown Rd. Extension to Hines Chapel Rd. (includes widening of existing and new location)	2.0	2	4 lane divided	Yes	Yes		22,161,832
D26	L020	Local	Bond Candidate	Benjamin Parkway / Bryan Boulevard	Holden Road to Wendover Avenue	1.2	5 lane	6 lane	Yes	Yes		8,126,005
D27	L021	Local	Bond Candidate	Fleming Rd / Lewiston Rd Connector	Fleming Rd. to Lewiston Rd. connection	0.6	N/A	4 lane divided	Yes	Yes		12,189,007
D28	L022	Local	Bond Candidate	Horse pen Creek Rd. / Fleming Rd. Connector	Isaacson Blvd. to Inman Rd.	0.9	N/A	4 lane divided	Yes	No		10,637,679
D29	L023	Local		Mackay Road	Railroad grade separation	N/A	N/A	N/A	Yes	No		22,161,832
D30	L024	Local	Bond Candidate	Hilltop Road	Railroad grade separation	N/A	N/A	N/A	Yes	No		22,161,832
D31	L025	Local	Bond Candidate	West Market St.	Intersection Improvements at College Road	N/A	5 lane	N/A	Yes	N/A		6,648,549
D32	T012	State	R-2413 C	NC 68 / US 220 Connector	NC 68 / US 220 Intersection to Haw River (see 2009, 2010, and 2012 for remainder of project)	3.9/12.4	N/A	4 lane freeway	No	Yes		19,059,175
	T012	State	R-2413 A/B	NC 68 / US 220 Connector	Edgefield Road to NC 68 / US 220 Intersection (see Map ID D32) (see 2009, 2010, and 2012 for remainder of project)	7.5/12.4	N/A	4 lane freeway	No	Yes		98,841,769
D33	T013	State	U-3314 B	I-40/ I-85 Corridor	MPO Boundary to I-85; Intelligent Transportation System (ITS) Installation.	N/A	N/A	N/A	No	N/A		25,412,234
D34	T014	State	U-2524 AE	Western Urban Loop	Interchange at High Point Rd. Relocation (U-2412B) (see 2009 for remainder of project)	N/A	N/A	N/A	No	Yes		17,877,211
	T053	State	U-2525 B	Eastern Urban Loop	US 29 to US 70 (see Map ID E49) Mitigation & Right-of-way /partial construction of B	12.6	N/A	6 lane freeway	No	Yes		145,805,645
N/A	T015	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Yes	N/A		7,948,710
N/A	T016	Various	Various (W, S)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Yes	N/A		3,412,922
N/A	T017	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	No	N/A		6,624,615
N/A	T018	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	Yes	N/A		4,506,239
N/A	T019	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	No	N/A		124,052,610
N/A	T020	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	Yes	N/A		Included in B35
N/A	TO79	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	Yes	N/A		208,604,089

Figure 10g - 2025 Project Costs

2016-2025												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
E1	T021	Federal	U-4015 A	Gallimore Dairy Road	NC 68 to International Drive	1.6	2 lane	4 lane divided	Yes	No		15,522,694
E2	T022	Federal	R-4707	US 29	Reedy Fork Parkway / US 29 Interchange (includes improvements to Summit Ave. and Reedy Fork Parkway)	1.0	4 lane freeway	6 lane freeway	Yes	Yes		53,417,321
E3	T023	Federal	U-5003	Pegg / Thatcher Connector	Gallimore Dairy Rd. to Market St. (includes grade separation)	2.1	N/A	4 lane divided	Yes	No		61,609,452
E4	T024	Federal	R-2910	US 70	Rock Creek Dairy Rd. to MPO Boundary (remaining portion in Burlington-Graham MPO)	0.32 / 5.4	2 lane	4 lane divided	Yes	Yes		9,578,345
E5	T025	Federal	U-2581 B	US 70	Mt Hope Church Rd. to Rock Creek Dairy Rd. (Penry Rd. to Mt Hope Church Rd completed as part of Urban Loop)	4.95 / 5.2	2 lane	5 lane	Yes	Yes		83,269,025
E6	T026	Federal		Sandy Ridge Road Extension	West Market St. to I-40/ NC 68/ I-73 Connector (includes interchange)	1.0	N/A	4 lane divided	Yes	Yes		54,870,919
E7	T027	Federal		Lewiston Road / Pleasant Ridge Road	Urban Loop to NC 150 Relocation	5.0	2 lane	4 lane divided	Yes	Yes		75,086,520
E8	T028	Federal		Pleasant Ridge Road	Old Oak Ridge Rd. to Lewiston Rd.	3.2	2 lane	3 lane	Yes	No		32,008,036
	T029	Federal	I-3603	I-40 and I-85	West City Limits to East City Limits in Greensboro. Install Lighting on Routes.	N/A	N/A	N/A	No	N/A		7,701,182
E9	T030	Federal	I-4921	US 220	Randolph Co. Line to I-85; Upgrade to Interstate Standards	6.5/ 23	N/A	N/A	No	N/A		44,618,721
E10	T031	Federal	R-0952	I-40 BUS/ US 421	Forsyth Co. Line to Sandy Ridge Rd. Pavement and Bridge Rehabilitation.	2.7/ 8.5	N/A	N/A	No	N/A		41,562,314
E11	T032	Federal	R-2808	I-85 BUS/ US 29-70	MAB to I-85; Safety Improvements and Bridge Replacement.	1.2/ 31.1	N/A	N/A	No	N/A		539,083
E12	T033	Federal		Battleground Avenue	Cotswold Ave. to Westridge Rd.	1.4	5 lane	6 lane divided	Yes	Yes		48,132,385
E13	T034	Federal		Battleground Avenue Crossover	Cornwallis Dr. to Wendover Avenue	1.0	5 lane	6 lane divided	Yes	Yes		36,099,289
E14	T035	Federal	U-3617	West Market St.	Bunker Hill Rd. to Forsyth County Line	3.6	2 lane	4 lane divided	Yes	Yes		26,884,343
E15	T036	Federal		NC 68	Peoples Road to Rockingham County Line	8.9	2	4 lane divided	No	Yes		139,858,270
E16	T037	Federal		NC 68	Market St. to Pleasant Ridge Rd.	2	4 lane	6 lane divided	No	Yes		24,066,192
E17	T038	Federal		NC 68 & I-40 Interchange	Interchange Reconfiguration	N/A	N/A	N/A	No	N/A		48,132,385
E18	T039	Federal		Wendover Avenue & Bus I-40 Interchange	Interchange Reconfiguration	N/A	N/A	N/A	No	N/A		48,132,385
E19	T040	Federal		US 29	Upgrade to Interstate Standards, N of Hicone Rd. to Rockingham Co. line	5.5	4 lane freeway	6 lane freeway	No	Yes		14,271,252
E20	T041	Federal		South Dudley Street	Railroad grade separation	N/A	N/A	N/A	No	No		15,402,363
E21	T042	Federal		South English Street	Railroad grade separation	N/A	N/A	N/A	No	No		15,402,363
E22	T043	Federal		Benbow Road	Railroad grade separation	N/A	N/A	N/A	No	No		9,024,822
E23	T044	Federal		Knox Road Extension	Carmon Rd. to Frieden Church Rd. (with Railroad grade separation)	0.3	N/A	2 lane	Yes	No		11,792,434
E24	T045	Federal	Bond Candidate	Tate Street	Railroad grade separation	N/A	N/A	N/A	No	No		24,066,192
E25	T046	Federal		Franklin Boulevard	Railroad grade separation	N/A	N/A	N/A	No	No		20,456,263
E26	T047	Federal	Bond Candidate	Aycock Street	Railroad underpass replacement (in conjunction with PART)	N/A	N/A	N/A	No	No		24,066,192
E27	T048	Federal		East Market Street	Railroad underpass replacement	N/A	N/A	N/A	No	No		72,198,577
E28	T049	Federal		Carmon Road Extension	Knox Rd. to McLeansville Rd.	1.0	N/A	2 lane	Yes	No		10,107,801
E29	L026	Local	Bond Candidate	Alamance Church Road	City Limits to I-85	1.2	2 lane	4 lane divided	Yes	Yes		16,365,011
E30	L027	Local	Bond Candidate	McConnell Road	City Limits to I-40 Business	1.6	N/A	4 lane divided	Yes	Yes		68,107,324
E31	L028	Local	Bond Candidate	Youngs Mill Rd, Extension	McConnell Rd. to North of US 70	2.7	2 lane	4 lane divided	Yes	Yes		94,098,812
E32	L029	Local	Bond Candidate	Randleman Road	Glendale Drive to Urban Loop	0.6	2 lane	4 lane divided	Yes	Yes		4,813,238
E33	L030	Local	Bond Candidate	Burlington Road	O'Ferrell Street to Ward Road	0.4	2 lane	3 lanes	Yes	No		3,369,267
E34	L031	Local		Church Street	Cone Boulevard to Urban Loop	2.0	3 lane	4 lane divided -5	Yes	No		36,099,289
E35	L032	Local	Bond Candidate	Westridge Road	Whitehurst Rd. to Bryan Blvd.	0.5	2 lane	4 lane divided	Yes	No		6,016,548
E36	L033	Local		Elm Street	Wendover Ave. to Cone Blvd.	1.6	3 lane	4 lane divided-5	Yes	No		24,066,192
E37	L034	Local		Holts Chapel Road Upgrade	East Market St. to US 70	3.6	2 lane	3 lane	Yes	No		55,448,507
E38	L035	Local	Bond Candidate	Burnt Poplar Road	Swing Rd. to Regional Rd.	2.9	2 lane	3 lane	Yes	No		28,879,431
E39	L036	Local	Bond Candidate	Pleasant Ridge Road	West Market St. to City Limits	2.4	2 lane	4 lane divided	Yes	No		36,099,289
E40	L037	Local	Bond Candidate	Pleasant Ridge Road	City Limits to Old Oak Ridge Rd.	1.0	2 lane	4 lane divided	Yes	No		14,680,377
E41	T014	State	U-2524 C/D	Western Urban Loop	Bryan Boulevard to Lawndale Dr.	5.0	N/A	6 lane freeway	No	Yes		519,078,889

Figure 10g (cont.)- 2025 Project Costs

2016-2025												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
E42	T014	State	U-2524 D	Western Urban Loop	Lake Brandt / Cotswold Connector (Lake Brandt Rd. to Cotswold Rd.)	0.3	3 lane	3 lane	Yes	No		Included in funding for project B17
E43	T012	State	R-2413 A/B	NC 68 / US 220 Connector	Edgefield Road to NC 68 / US 220 Intersection (see 2009 & 2015 for remainder of project)	7.5/12.4	N/A	4 lane freeway	No	Yes		53,667,609
E44	T053	State	U-2525 C	Eastern Urban Loop	Lawndale Dr. to US 29 (Includes completion of interchange at US 29) (see 2015 for remainder of project)	5.8 / 12.6	N/A	6 lane freeway	No	Yes		241,432,042
E45	T054	State		I-73 Connector	NC 68 to Bryan Boulevard	1.3	N/A	6 lane freeway	No	Yes		184,828,357
E46	T055	State		Pleasant Ridge Road Relocation @ I-73 Connector	Montmartre Road to Cude Road	1.7	N/A	3 lane	Yes	Yes		35,858,627
E47	T056	State		Bryan Boulevard Loop at I-73 Connector	Montmartre Road to Pleasant Ridge Road	2.3	N/A	4 lane divided	No	Yes		90,849,876
E48	T057	State		Ritters Lake Road Extension	Elm-Eugene St. to Old Randleman Rd.	0.4	2 lane	3 lane	Yes	No		5,775,886
E49	T053	State	U-2525 B	Eastern Urban Loop	US 29 to US 70 (see 2009, 2010, and 2015 for remainder of project)	4.6/ 12.6	N/A	6 lane freeway	No	Yes		70,092,785
N/A	T015	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Yes	N/A		31,923,804
N/A	T016	Various	Various (W, S)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Yes	N/A		9,265,484
N/A	T017	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	No	N/A		35,969,331
N/A	T018	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	Yes	N/A		96,264,769
N/A	T019	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	No	N/A		739,931,148
N/A	T020	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	Yes	N/A		26,149,362
N/A	TO79	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	Yes	N/A		385,744,406

Figure 10h- 2035 Project Costs

2026-2035												
Map ID	Project ID	Funding	TIP or Bond ID	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	BiPed	Regionally Significant?	CMAQ	PROJECT COSTS
F1	T059	Federal		Brown Summit Rd. at US 29	Summit Ave. to Brangu St. and Interchange	N/A	N/A	4 lane divided	Yes	Yes		141,359,857
F2	T061	Federal	I-4924	Airport Connector (I-73/I-74)	Forsyth Co. Line to NC 68	5.0	N/A	4 lane divided	No	Yes		273,625,014
F3	T062	Federal		I-40 Connector	I-40 to I-73 / I-74 Connector	1.7	N/A	4-6 lane freeway	No	Yes		1,498,665,370
F4	T063	Federal		High Rock Road Extension	US 70 to Frieden Church Rd. (improve existing and new)	3.1	2 lane	2 lane	Yes	No		80,374,408
F5	T064	Federal		Burnetts Chapel / Steeple Chase / Hagen Stone Park Connector	Burnetts Chapel to Steeple Chase; Steeple Chase to Hagan Stone Park; Hagan Stone Park to Company Mill	5.2	2 lane	2 lane	Yes	Yes		142,692,701
F6	T065	Federal		Youngs Mill / Southeast School Connector	Millpoint Rd. to Southeast School Rd.	1.2	N/A	2 lane	Yes	Yes		20,384,672
F7	T066	Federal		South Holden Road	I-85 Business to Randleman Rd.	2.6	2 lane	4 lane divided	Yes	Yes		82,518,718
F8	T067	Federal		NC 150	NC 68 to Lake Brandt Rd. (excludes new location)	7.5	2 lane	3 lane	Yes	Yes		106,259,020
F9	T068	Federal		NC 150 Relocation	Summerfield Rd. to Brookbank Rd.	1.5	N/A	2 lane	Yes	Yes		32,537,072
F10	T069	Federal		Vandalia Road Extension	Pleasant Garden Rd. to Alamance Church Rd.	2.5	N/A	4 lane divided	Yes	Yes		113,291,732
F11	L038	Local		Rankin Mill / Flemingfield Connector	South of Keeley Rd. Huffine Mill Rd.	0.7	2 lane	3 lane	Yes	No		16,856,555
F12	L039	Local		Nealtown Road Extension	East Cone Blvd. to McKnight Mill Rd.	2.0	2 lane	2-3 lane	Yes	No		10,976,362
F13	L040	Local	Bond Candidate	Lee Street	Streetscape, Coliseum Boulevard to Eugene St.	1.8	N/A	N/A	Yes	N/A		50,961,679
F14	L041	Local		Clapps Farm Road	McConnell Rd. to Mt. Hope Church Rd.	2.0	N/A	4 lane divided	Yes	Yes		61,154,015
F15	L042	Local	Bond Candidate	Summit Avenue	Streetscape, Murrow Boulevard to Wendover Ave.	1.0	N/A	N/A	Yes	N/A		39,201,291
F16	L043	Local	Bond Candidate	High Point Road	Streetscape, I-40 to Chapman St.	1.5	N/A	N/A	Yes	N/A		43,121,421
F17	L044	Local	Bond Candidate	Summit Avenue	McKnight Mill Rd. to Bryan Park Rd.	4.7	2 lane	4 lane divided	Yes	No		117,603,874
F18	L045	Local	Bond Candidate	Bass Chapel Road	Air Harbor to Old Lake Jeanette Rd.	2.0	3 lane	4 lane divided	Yes	No		105,843,487
F19	L046	Local	Bond Candidate	Air Harbor	Lake Brandt to Bass Chapel	0.5	3 lane	4 lane divided	Yes	No		12,152,400
F20	L047	Local	Bond Candidate	Hicone Road	Summit Ave. to Hines Chapel Rd.	3.3	2 lane	5 lane	Yes	No		64,682,131
F21	L048	Local		Hicone Road Extension	Existing Hicone Rd. to Lee's Chapel Rd.	0.6	N/A	3 lane	Yes	No		12,544,413
F22	T070	State	R-2577	US 158	Forsyth Co. Line to US-220 (includes Bypass; remaining portion in Winston-Salem MPO)	6.8 / 18.8	2 lane	4 lane divided	Yes	Yes		182,678,018
F23	T071	State	R-2580	US 158	US 220 - Rockingham Co Line (remaining portion in Rockingham Co.)	1.6 / 15	2 lane	4 lane divided	Yes	Yes		40,965,349
F24	T014	State	U-2524 F	Western Urban Loop	Interchange at Proposed Lewiston/ Fleming Road Extension	N/A	N/A	N/A	No	Yes		58,801,937
F25	T053	State	U-2525 D	Eastern Urban Loop	Interchange at proposed Cone Boulevard Extension	N/A	N/A	N/A	No	Yes		58,801,937
F26	T074	State		Williams Dairy / Millpoint Road Connector	Millpoint Rd. to Southeast School Rd.	0.8	N/A	2 lane	Yes	No		13,328,439
F27	T075	State		Bishops Rd. / Vernondale Rd. Connector	South Holden Rd. to Rehobeth Church Rd.	0.5	2 lane	3 lane	Yes	No		17,640,581
F28	T076	State		Turner Smith Extension	McLeansville Rd. eastward to Existing Turner Smith	0.5	N/A	3	Yes	Yes		11,266,451
F29	T077	State		Eversfield Extension	Oak Ridge Rd. to Brookbank Rd.	1.4	N/A	2 lane	Yes	No		22,964,116
F30	T078	State		Mt. Hope Church Extension	McPherson-Clay to Alamance Church Rd.	0.4	N/A	2 lane	Yes	No		6,491,734
N/A	T015	Various	Various (B)	Various	Bridge Projects	N/A	N/A	N/A	Yes	N/A		52,000,513
N/A	T016	Various	Various (V, S)	Various	Hazard Elimination Projects	N/A	N/A	N/A	Yes	N/A		15,092,497
N/A	T017	Various	Various (P)	Various	Passenger Rail Projects	N/A	N/A	N/A	No	N/A		58,590,250
N/A	T018	Various	Various (E)	Various	Enhancement Projects	N/A	N/A	N/A	Yes	N/A		98,003,228
N/A	T019	Various	Various (T)	Various	Public Transportation Projects	N/A	N/A	N/A	No	N/A		1,476,864,128
N/A	T020	Various	Various (C)	Various	Congestion Mitigation and Air Quality (CMAQ) Projects	N/A	N/A	N/A	Yes	N/A		42,594,555
N/A	TO79	Various	Various (C)	Various	Maintenance (roadway)	N/A	N/A	N/A	Yes	N/A		628,336,991

Greensboro Urban Area 2035 Long Range Transportation Plan

Figure 10i summarizes the non-capacity roadway categories by horizon year. The costs shown in this figure have been reflected in the total costs shown in Figure 10b for roadways.

Figure 10i — Non-Capacity Roadway Project Summary

Non-Capacity Roadway Projects Costs				
<small>(In Thousands of Dollars)</small>				
Period	Freeway Resurfacing*	Bridge Projects	Safety Projects	Railroad Improvements
2009	N/A	1,160	390	1,490
2010	N/A	0	0	1,490
2011-2012	N/A	2,580	0	2,990
2010-2015	N/A	5,380	2,310	4,480
2016-2025	N/A	13,270	3,850	14,950
2026-2035	N/A	13,270	3,850	14,950
Totals	N/A	35,660	10,400	40,350

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Detailed capital costs for GTA and PART are included in Figures 10j and 10k.

Figure 10j - GTA detailed capital costs

GTA Detailed Capital Costs	
(In Thousands of Dollars)	
2009	
10 expansion small buses	656,000
27 replacement small buses	1,774,000
2 expansion buses	714,000
Transit Security	91,350
Technology improvements (unfunded)	1,720,000
New facility (unfunded)	730,118
Total:	5,685,468
2010 (all TIP; funding status noted)	
13 replacement small buses (unfunded)	884,000
New facility (unfunded)	1,997,147
Transit Security (funded)	47,741
Total:	2,928,888
2011-2012 (all TIP; funding status noted)	
14 HEAT buses (7 small, 7 big; unfunded)	1,800,000
8 expansion buses (unfunded)	3,080,000
24 replacement small buses (unfunded)	1,920,000
Transit Security (funded)	99,821
New facility (unfunded)	15,659,105
Total:	22,558,926
2013-2015 (all TIP; funding status noted)	
26 replacement small buses (unfunded)	2,340,000
10 big HEAT buses (unfunded)	1,680,000
20 replacement buses (unfunded)	7,700,000
New facility (unfunded)	1,613,630
Transit Security (funded)	161,244
Total:	13,494,874
2016-2025 (all non-TIP)	
Replacement buses	23,797,000
Expansion buses	9,471,000
Transit Security	653,494
Total:	33,921,494
2026-2035 (all non-TIP)	
Replacement buses	26,257,000
Expansion buses	17,569,500
Transit Security	878,242
Total:	44,704,742
Grand Total:	123,294,392

Figure 10k - PART detailed capital costs

PART Detailed Capital Costs	
(In Thousands of Dollars)	
2009	
Park N Ride Lots & Amenities	4,995,000
Expansion buses and shuttles	7,240,000
Terminals, Intermodal Facilities, and Mini Hubs	13,418,998
Total:	25,653,998
2010	
Park N Ride Lots	2,695,000
Expansion and replacement buses and shuttles	1,850,000
Terminals, Intermodal Facilities, and Mini Hubs	307,518
Total:	4,852,518
2011-2012	
Park N Ride Lots	1,500,000
Expansion and replacement buses and shuttles	3,000,000
Terminals, Intermodal Facilities, and Mini Hubs	4,104,157
Total:	8,604,157
2013-2015	
Park N Ride Lots	0
Expansion and replacement buses and shuttles	600,000
Terminals, Intermodal Facilities, and Mini Hubs	7,969,327
Total:	8,569,327
2016-2025	
Park N Ride Lots	1,335,000
Replacement buses and shuttles	8,675,000
Total:	10,010,000
2026-2035	
Park N Ride Lots	1,335,000
Replacement buses and shuttles	8,225,000
Total:	9,560,000
Grand Total:	67,250,000

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The non-motorized total costs are included above in Figure 10b. A detailed cost breakdown for sidewalks, trails, and the Downtown Greenway has been included in Figures 10l, 10m, and 10n.

Figure 10l – sidewalk detailed costs

Sidewalk Detailed Costs						
(In Thousands of Dollars)						
Period	Committed STP DA	Future STP DA	Bonds (Capital)	Bond (Maintenance)	Roadway Improvements	Total
2009	2,880	0	0	0	0	2,880
2010	1,630	0	0	0	0	1,630
2011-2012	0	0	0	0	0	0
2013-2015	0	0	15,950	4,410	3,290	23,650
2016-2025	0	0	15,950	4,410	3,620	23,980
2026-2035	0	0	19,420	4,410	0	23,830
Total	4,510	0	51,320	13,230	6,910	75,970

Figure 10m – Trail detailed costs

Trail Detailed Costs					
(In Thousands of Dollars)					
Period	Committed STP DA	Future STP-DA	Bonds (Capital)	Bond (Maintenance)	Total
2009	2,730	0	0	0	2,730
2010	0	0	0	0	0
2011-2012	0	0	0	0	0
2013-2015	5,310	0	13,500	900	19,710
2016-2025	0	0	13,440	4,630	18,070
2026-2035	0	0	13,780	4,630	18,410
Total	8,040	0	40,720	10,160	58,920

Figure 10n – Downtown Greenway Costs

Downtown Greenway Costs					
(In Thousands of Dollars)					
Period	Bonds	Private	STP DA	County	Total
2009-2015	7,000	7,000	0	1,000	15,000
2016-2025	3,000	3,000	0	0	6,000
Total	10,000	10,000	0	1,000	21,000

Greensboro Urban Area 2035 Long Range Transportation Plan

The following tables compare costs to revenues by mode of transportation, and further document that the plan meets the fiscal constraint test.

Figure 10o — Roadway Costs and Revenues

Roadway Costs and Revenues									
(In Thousands of Dollars)									
Period	Capital Costs	Roadway Capital Revenues			Capital Difference	Maintenance	Maintenance Revenues		Maintenance Difference
		Highway TIP	Bonds	Costs		State	Local		
2009	100,370	96,310	9,900	5,840	54,590	38,600	15,990	0	
2010	61,270	61,270	0	0	28,760	20,760	8,000	0	
2011-2012	91,640	91,730	0	90	60,670	44,680	15,990	0	
2013-2015	461,770	283,610	178,160	0	99,740	75,750	23,990	0	
2016-2025	1,139,310	993,170	164,240	18,100	429,850	349,880	79,970	0	
2026-2035	909,520	782,850	136,500	9,830	649,890	569,920	79,970	0	
Totals	2,763,880	2,308,940	488,800	33,860	1,323,500	1,099,590	223,910	0	

Figure 10p — GTA Transit Costs and Revenues

GTA Transit Costs and Revenues					
(In Thousands of Dollars)					
Period	O&M Costs	Capital Costs	Total Costs	Total Revenues	Difference
2009	34,760	5,690	40,440	40,440	0
2010	15,870	2,930	18,800	18,800	0
2011-2012	34,270	22,560	56,830	56,830	0
2013-2015	52,930	13,490	66,420	67,230	810
2016-2025	203,910	33,920	237,830	239,810	1,980
2026-2035	254,260	44,700	298,970	299,560	590
Totals	596,000	123,290	719,290	722,670	3,380

Figure 10q — PART Transit Costs and Revenues

PART Transit Costs and Revenues					
(In Thousands of Dollars)					
Period	O&M Costs	Capital Costs	Total Costs	Total Revenues	Difference
2009	3,600	25,650	29,250	29,250	0
2010	2,100	4,850	6,950	6,950	0
2011-2012	4,800	8,600	13,400	13,400	0
2013-2015	7,900	8,570	16,470	16,730	260
2016-2025	34,410	10,010	44,420	67,640	23,220
2026-2035	53,430	9,560	62,990	77,180	14,190
Totals	106,240	67,240	173,480	211,150	37,670

Figure 10r — Pedestrian and Bicycle Costs and Revenues

Pedestrian & Bicycle Costs and Revenues*			
(In Thousands of Dollars)			
Period	Costs	Revenues	Difference
2009	5,600	5,600	0
2010	1,630	1,630	0
2011-2012	0	0	0
2013-2015	58,360	58,360	0
2016-2025	48,040	48,040	0
2026-2035	42,230	42,230	0
Totals	155,860	155,860	0