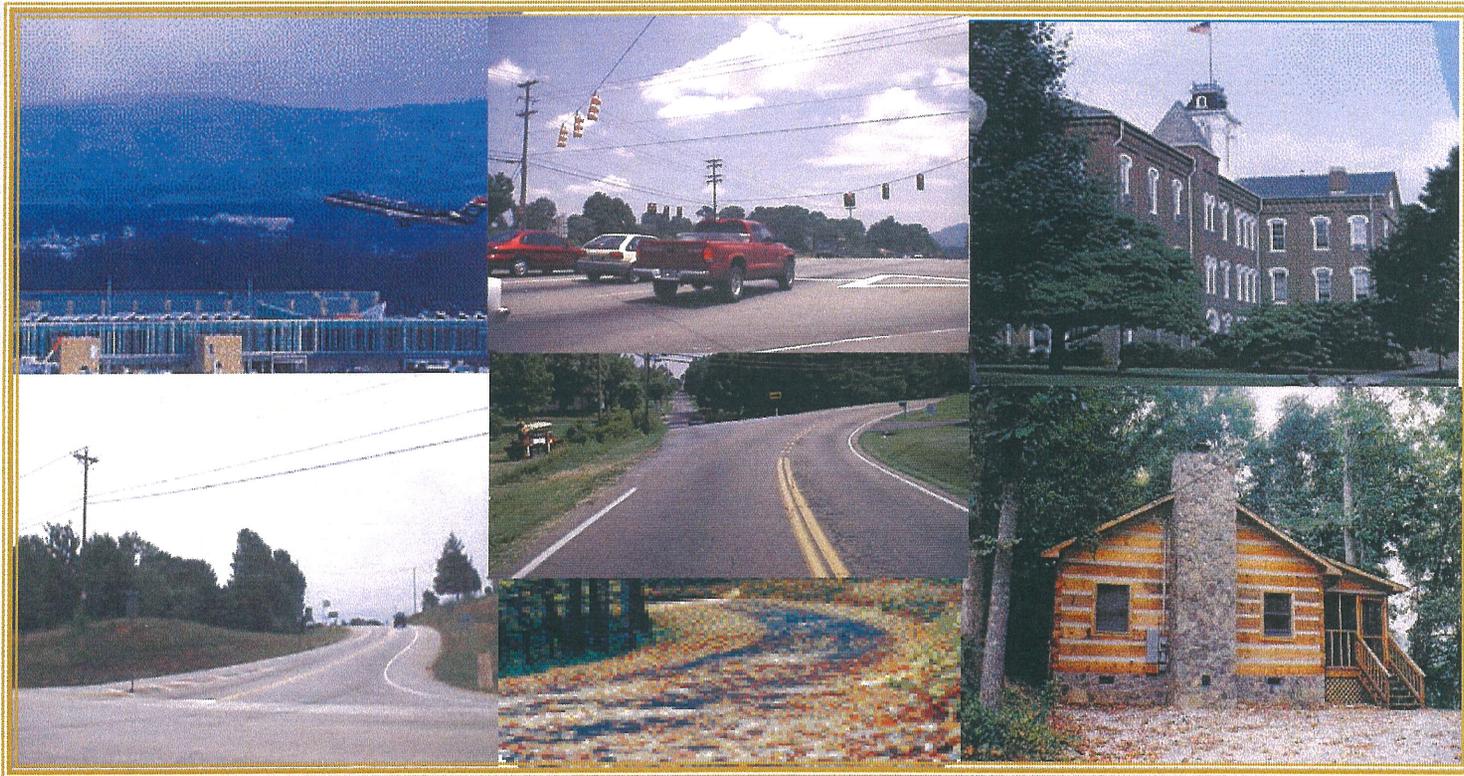


BLOUNT COUNTY ROADWAY NEEDS STUDY UPDATE



2004



March 25, 2005

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Mr. Bill Dunlap
Blount County Highway Superintendent
415 Louisville Road
Alcoa, Tennessee 37701

RE: Blount County Roadway Needs Update

Dear Mr. Dunlap:

Wilbur Smith Associates is pleased to submit our final report entitled, ***Blount County Roadway Needs Study Update 2004***. We appreciate the opportunity to work with you again and hope that this document will become a useful tool in your planning efforts.

Sincerely,

WILBUR SMITH ASSOCIATES

W. Hollis Loveday, P.E.

WHL:dmf

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INTRODUCTION

The *Blount County Roadway Needs Study Update 2004* is part two of an initial study first performed in 2000 to evaluate the county's future roadway needs.

This report continues to assess current conditions on Blount County's minor arterials, major collectors and minor collector roadways with updates from roadway improvements performed based on recommendations from the earlier study.

Although the primary function of local roads are to provide access to adjacent properties, input from the Blount County Highway Department and the Blount County Planning Department added four local roads to the study due to the frequency of residential development along them.

In order to remain consistent with the current conditions, all databases were revised and updated. Information collected for this study included average daily traffic, roadway geometry and traffic accident data. Once information was obtained, deficiencies were determined and improvement priorities were established.

The 2000 study consisted of five public meetings with citizens, public officials and area stakeholders of Blount County.

Results from the public surveys issued in the 2000 study were used to provide supporting information and to facilitate a comprehensive study addressing concerns about the county's existing roadway system.

This update continues to incorporate the information from the public input process with the revised databases in order to determine deficient roadways and develop recommendations for improvements.

The *Blount County Roadway Needs Study Update 2004* compiles roadway information and projects traffic growth over a 27-year period (2003-2030). Estimated future traffic volumes for each roadway classification were compared to the roadway width and plotted to evaluate a need for roadway improvements.

A Minimum Standard Line (MSL) was established in the previous report to prioritize specific roadway recommendations and improvements.

Roadway segments were plotted on graphs based on roadway width and ADT volume to establish a priority year for recommended improvements.

Sections of this report include Roadway Database, Evaluation and Analysis, Isolated Improvements, Roadway Improvement Recommendations, and Summary of Recommendations. Basic design standards and costs estimates were recommended for each prioritized improvement based on short and long term needs.



SECTION 1

ROADWAY DATABASE



SECTION 1

ROADWAY DATABASE

Based on the roadway classification system established by the Blount County Planning Department, the County roads are listed in the following categories: Major Arterial, Minor Arterial, Major Collector, Minor Collector and Local Roads. Figure 1 illustrates Blount County's Roadway Classification System. Figure 2 shows the Tennessee Department of Transportation (TDOT) Route Number for each roadway segment classified.

The roadway database (Tables 1-4) includes all the roadway classifications except for Major Arterial Roadways. The Local Street Database addresses four local roads throughout Blount County that have experienced significant impacts due to residential and commercial development within their areas. The four local roads analyzed as part of this study include Pea Ridge Road, Doc Norton Road, East Miller Cove Road, and Howard School Road.

Roadway characteristics were provided by the TDOT TRIMS (Tennessee Roadway Information Management System) database, the Blount County Highway Department's roadway database and field reviews.

The database includes roadway length, pavement width, existing Average Daily Traffic (ADT) volumes and Projected ADT volumes at five-year intervals from Year 2010 to Year 2030.

The ADT volumes consist of TDOT mechanical counts and additional 24-hour mechanical counts from the Knoxville Regional Transportation Planning Organization (TPO). The University of Tennessee (UT) provided ADT volumes for the local streets. Figure 3 shows the 2003 Daily Traffic Volumes along various routes throughout Blount County.

All roadways in the database were evaluated based on a combination of traffic volume, roadway width, accident data, and historical traffic information.

Roadway widths are shown in Figure 4. Very few of the county roads are 24 feet wide and most lack shoulders. Typically, the lower classified roads have the more narrow cross sections.

**Table 1
MINOR ARTERIAL DATABASE AND PROJECTED TRAFFIC
2004 ROADWAY NEEDS STUDY
Blount County, Tennessee**

Route Number	Route Name	Description			Length	Roadway Width	ADT		Projected Traffic (ADT)					ROW	
		Beginning	Ending				(2003)	Station	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	min (ft)	max (ft)
1	US 129 (SR 115)	CALDERWOOD HIGHWAY	MONROE-BLOUNT COUNTY LINE	FOUR MILE ROAD	0.83	24	3,970	T206	4,800	5,400	5,990	6,590	7,190	50	
2	US 129 (SR 115)	CALDERWOOD HIGHWAY	FOUR MILE RD.	INDIAN WARPETH RD.	3.94	24	1,570	T71	1,620	1,660	1,700	1,740	1,780	50	
3	US 129 (SR 115)	CALDERWOOD HIGHWAY	INDIAN WARPETH RD.	OLD NILES FERRY ROAD	5.30	24	2,140	M22	2,910	3,300	3,690	4,090	4,480	50	
4	US 129 (SR 115)	CALDERWOOD HIGHWAY	OLD NILES FERRY ROAD	US 411 (SR 33)	0.35	24	5,782	T65	6,100	6,580	7,050	7,530	8,010	50	
5	1216	MORGANTON ROAD	WILLIAM BLOUNT DRIVE	MARYVILLE CITY LIMITS	2.06	21	6,220	M18	7,530	8,460	9,390	10,330	11,260	40	
6	SR33	OLD KNOXVILLE HWY.	MARYVILLE CITY LIMITS	RODDY BRANCH RD.	4.59	24-36	11,046	T16	11,160	11,960	12,760	13,560	14,360	60	
7	US 411 (SR 35)	SEVIERVILLE ROAD	WILDWOOD ROAD	TEMPLE ROAD	1.44	20	5,952	T18	7,990	9,080	10,170	11,260	12,340	40	
8	US 411 (SR 35)	SEVIERVILLE ROAD	TEMPLE ROAD	DOC NORTON ROAD	2.18	20	5,952	T18	7,990	9,080	10,170	11,260	12,340	40	
9	US 411 (SR 35)	SEVIERVILLE ROAD	DOC NORTON ROAD	BLOUNT-SEVIER COUNTY LINE	4.51	20	4,780	T2	5,230	5,930	6,630	7,330	8,030	40	
10	SR 335	WEST HUNT ROAD	PROFFITT SPRINGS ROAD	ALCOA CITY LIMITS	0.57	18	4,180	T28	4,230	4,430	4,630	4,830	5,030	40	
11	1246	WILDWOOD ROAD	MARYVILLE CITY LIMITS	ANDY HARRIS ROAD	4.49	20	3,521	T25	3,640	3,730	3,820	3,910	4,000	30	
12	1246	WILDWOOD ROAD	ANDY HARRIS ROAD	NORTH WILDWOOD ROAD	0.12	20	3,210	M3	3,660	3,870	4,080	4,290	4,500	30	
13	SR 335	WILLIAM BLOUNT DRIVE	MORGANTON ROAD	CLOVER HILL RIDGE ROAD	0.75	24	6,539	T145	8,250	9,530	10,810	12,080	13,360	120	
14	SR 72	STATE ROUTE 72	MONROE-BLOUNT COUNTY LINE	BLOUNT-MONROE COUNTY LINE	1.51	22	340	T74	530	630	740	840	950	120	

**Table 2
MAJOR COLLECTOR DATABASE AND PROJECTED TRAFFIC
2004 ROADWAY NEEDS STUDY
Blount County, Tennessee**

Route Number	Route Name	Description		Length (Miles)	Roadway Width	ADT		Projected Traffic (ADT)					ROW		
		Beginning	Ending			(2003)	Count Station	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	min (ft)	max (ft)	
1	SR 336	BRICK MILL ROAD	US 411 (SR 33)	US 129 (SR 115)	3.76	18	2,326	T68	2,870	3,270	3,670	4,070	4,470	40	
2	4484	DAVIS FORD ROAD	RIVER FORD ROAD	US 411 (SR 35) (SEVIERVILLE ROAD)	2.88	16	1,466	T186	1,770	1,990	2,210	2,430	2,650	24	
3	SR333	LOUISVILLE ROAD	OLD LOWES FERRY ROAD	TOPSIDE ROAD	5.06	22	7,041	T9	7,460	8,250	9,040	9,830	10,620	60	
4	SR 334	LOUISVILLE ROAD	ALCOA CITY LIMITS	SR 333 (TOPSIDE ROAD)	0.93	24	9,847	T182	11,800	13,360	14,910	16,470	18,030	60	
5	2410	MARTIN MILL PIKE	OLD KNOXVILLE HIGHWAY	ROCKFORD CITY LIMITS	1.40	16	2,425	T210	2,930	3,300	3,660	4,030	4,390	24	
6	SR 333	MISER STATION RD	US 321 (SR 73) (LEAVING FRIENDSVILLE)	QUARRY ROAD	3.69	20	2,224	T31	2,710	3,070	3,070	3,790	4,150	40	
7	SR 336	MONTVALE ROAD	SIX MILE ROAD	MARYVILLE CITY LIMITS	4.37	18	5,173	T54	6,200	6,870	7,540	8,210	8,880	40	
8	SR 335	OLD GLORY ROAD	OLD MT. TABOR ROAD	MIDDLESETTLEMENTS RD.	1.30	20	6,521	T124	7,930	8,950	9,980	11,000	12,030	50	
9	4483	OLD WALLAND HIGHWAY	RIVER FORD ROAD	US 321 (SR73)	1.76	18	4,402	T24	5,740	6,600	7,470	8,330	9,190	25	
10	SR 333	QUARRY ROAD	MISER STATION ROAD	LOUISVILLE ROAD	2.44	20	2,771	T146	3,270	3,690	4,110	4,520	4,940	40	
11	4815	RAULSTON ROAD	CARPENTER'S GRADE ROAD	SR 336 (MONTVALE ROAD)	1.74	17	4,700	M24	7,410	8,960	10,510	12,060	13,620	23	50
12	SR 336	SIX MILE ROAD	US 129 (SR 115)	MONTVALE ROAD	10.54	18	1,524	T78	1,800	2,040	2,280	2,520	2,760	40	50
13	SR 33	OLD KNOXVILLE HWY	RODDY BRANCH RD.	BLOUNT/KNOX CO. LINE	1.75	24	7,457	T173	8,420	9,410	10,400	11,380	12,370	60	
14	SR 335	WILLIAM BLOUNT DR.	US 411 (SR 33)	CLOVERHILL RIDGE ROAD	0.81	24	6,539	T145	8,250	9,530	10,810	12,080	13,360	120	
15	SR 335	WILLIAM BLOUNT DR.	MORGANTON ROAD	US 321 (SR 73)	2.17	24	7,002	T59	9,270	10,460	11,660	12,850	14,050	130	
16	SR 337	SMOKY MOUNTAIN HIGHWAY	US 321 (SR 73)	GSNMP ENTRANCE	1.54	24	7,029	T86	8,280	9,420	10,560	11,700	12,850	60	
17	SR333	TOPSIDE ROAD	SR-334 LOUISVILLE ROAD	I-140 RAMPS	3.01	24	10,385	T150	12,120	13,710	15,290	16,880	18,460	80	150

**Table 3
MINOR COLLECTOR DATABASE AND PROJECTED TRAFFIC
2004 ROADWAY NEEDS STUDY
Blount County, Tennessee**

	Route Number	Route Name	Description		Length	Roadway		ADT		Projected Traffic (ADT)					ROW	
			Beginning	Ending		Width	(2003)	Station	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	min (ft)	max (ft)	
1	2402	A.R. DAVIS ROAD	ELLEJOY ROAD	OLD CHILHOWEE ROAD	2.37	17	145	T128	150	150	160	160	160	21		
2	2404	ANDY HARRIS ROAD	MARTIN MILL PIKE	NORTH WILDWOOD ROAD	1.11	19	1,717	T17	1,930	2,080	2,230	2,380	2,530	24		
3	1220	BIG SPRINGS ROAD	US 321 (SR 73)	WALKER ROAD	2.37	22	1,223	T35	1,490	1,650	1,810	1,970	2,130	30	90	
4	1220	BIG SPRINGS ROAD	WALKER ROAD	WILLIAM BLOUNT DRIVE	4.95	22	1,716	T36	2,280	2,630	2,980	3,330	3,680	30	90	
5	1266	BLOCKHOUSE ROAD	SR 336 (MONTVALE RD.)	WILKINSON PIKE	3.97	18	670	M25	690	710	730	740	760	23		
6	1275	BURNETT STATION ROAD	US 411 (SR35) SEVIERVILLE RD.	NAILS CREEK ROAD	1.49	19	840	T19	1,000	1,090	1,170	1,260	1,340	29		
7	2393	CARPENTER'S GRADE ROAD	MARYVILLE CITY LIMITS	MINT ROAD	3.49	19	2,970	M23	3,840	4,680	5,520	6,370	7,210	25		
8	2393	CHOTA ROAD	SR 336 (SIX MILE ROAD)	MINT ROAD	1.78	17	1,676	T67	2,160	2,420	2,680	2,950	3,210	24		
9	2402	COLD SPRINGS ROAD	OLD WALLAND HWY	OLD CHILHOWEE ROAD	1.39	18	888	T47	950	1,000	1,060	1,060	1,160	23		
10	1295	ELLEJOY ROAD	RIVER FORD ROAD	A.R. DAVIS ROAD	6.78	18	4,061	T22	5,310	6,160	7,000	7,840	8,680	19	26	
11	2408	GRAVELY HILL ROAD	HOLSTON COLLEGE ROAD	LOWES FERRY ROAD US 129	4.08	18	200	S24	240	270	300	330	360	24	50	
12	1236	HAPPY VALLEY ROAD UNITIA RD	MONTVALE ROAD	(CALDERWOOD HWY) SR-333 (MAIN STREET)	8.19	17	314	T87	320	330	360	390	420	24		
13	1220	(FRIENDSVILLE)	BLOUNT LOUDON COUNTY LINE	FRIENDSVILLE	0.49	17	2,974	UT	3,570	3,990	4,400	4,820	5,240	24		
14	2408	HOLSTON COLLEGE ROAD	GRAVELY HILL ROAD	LOWES FERRY ROAD	1.34	17	200	S24	240	270	300	330	360	23		
15	1295	JEFFERIES HOLLOW ROAD	ELLEJOY ROAD	BLOUNT-SEVIER COUNTY LINE	2.50	18	1,505	T20	1,950	2,270	2,580	2,890	3,210	22		
16	1223	KISER STATION ROAD (FRIENDSVILLE)	BLOUNT-LOUDON COUNTY LINE	SR-333 (MAIN STREET) FRIENDSVILLE	1.04	20	456	T137	500	520	550	570	600	30		
17	2410	MARTIN MILL PIKE	ROCKFORD CITY LIMITS	ANDY HARRIS ROAD	2.91	16	2,425	T210	2,930	3,300	3,660	4,030	4,390	24		
18	2410	MARTIN MILL PIKE	ANDY HARRIS ROAD	BLOUNT/KNOX CO. LINE	2.00	16	621	T117	680	730	770	820	860	24		
19	2406	MENTOR ROAD	LOUISVILLE ROAD	WRIGHTS FERRY ROAD CARPENTER'S GRADE ROAD	3.20	18	2,286	T212	2,770	3,110	3,450	3,790	4,140	30		
20	2393	MINT ROAD	CHOTA ROAD	CARPENTER'S GRADE ROAD	3.24	19	1,676	T67	2,160	2,420	2,680	2,950	3,210	25		
21	1265	MINT ROAD	CARPENTER'S GRADE ROAD	OLD NILES FERRY ROAD SR-334 (LOUISVILLE ROAD)	1.63	19	2,089	T66	2,620	2,780	2,940	3,100	3,260	25		
22	2408	MISER STATION ROAD	SR-333 (QUARRY ROAD)		5.44	20	618	T30	660	700	740	780	820	40		
23	1263	MONTVALE ROAD	SIX MILE ROAD	HAPPY VALLEY ROAD	3.44	19	669	T79	920	1,070	1,230	1,380	1,540	30		
24	1216	MORGANTON ROAD	LOUDON-BLOUNT COUNTY LINE	WALKER ROAD	4.66	21	1,718	T61	1,930	2,070	2,210	2,340	2,480	40		

**Table 3
MINOR COLLECTOR DATABASE AND PROJECTED TRAFFIC
2004 ROADWAY NEEDS STUDY
Blount County, Tennessee**

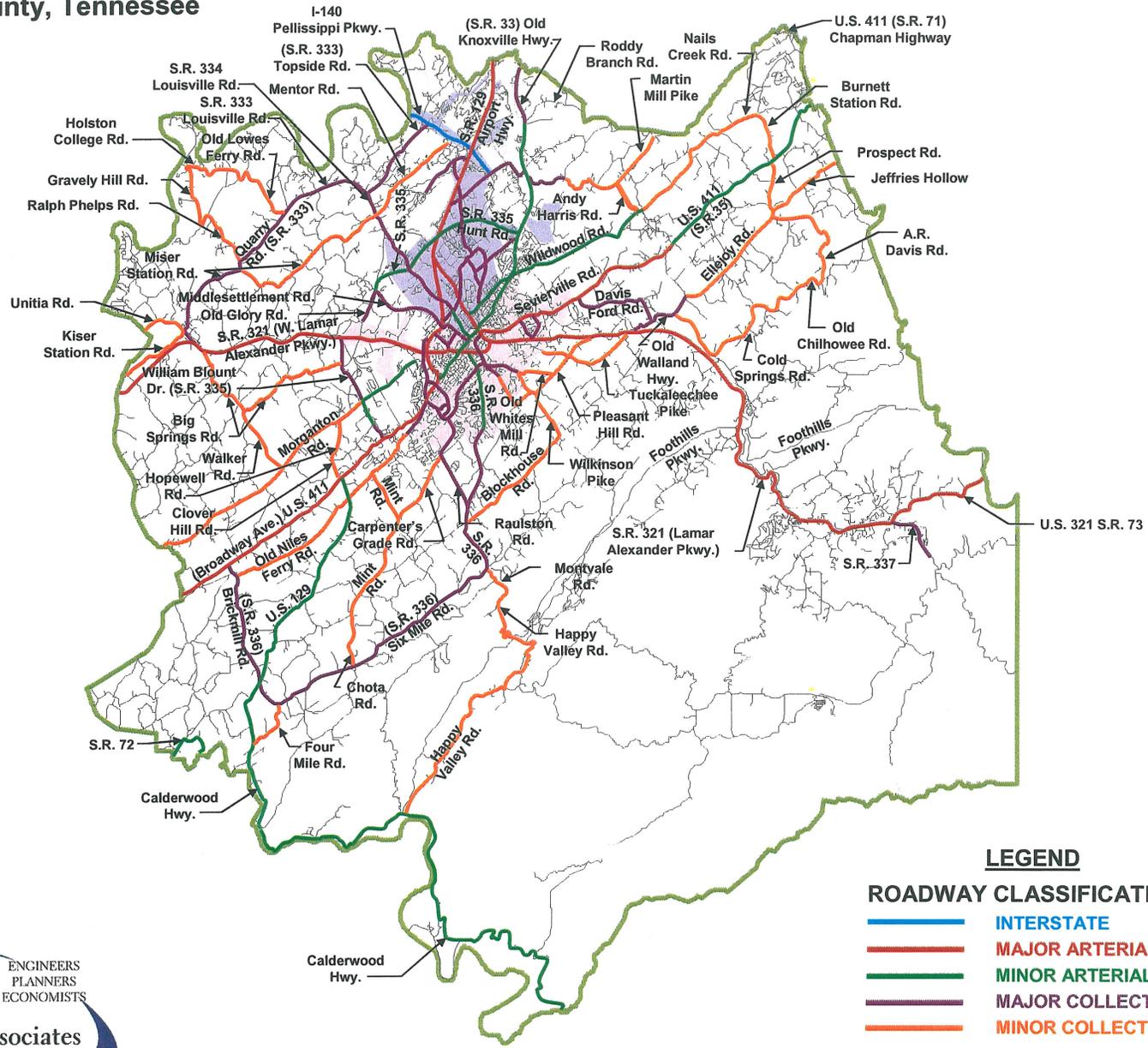
	Route Number	Route Name	Description		Length	Roadway		ADT		Projected Traffic (ADT)					ROW	
			Beginning	Ending		Width	(2003)	Station	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	min (ft)	max (ft)	
25	1216	MORGANTON ROAD	WALKER ROAD	SR -335 WILLIAM BLOUNT DRIVE	3.22	21	5,390	M17	6,040	6,580	7,130	7,670	8,220	40		
26	1246	NAILS CREEK ROAD	NORTH WILDWOOD ROAD	BURNETT STATION ROAD	4.96	14	750	T3	940	1,020	1,100	1,180	1,260	22		
27	1246	NORTH WILDWOOD ROAD	WILDWOOD ROAD	NAILS CREEK ROAD	4.80	19	750	T3	940	1,020	1,100	1,180	1,260	30		
28	2402	OLD CHILHOWEE ROAD	COLD SPRINGS ROAD	A.R. DAVIS ROAD	5.99	17	888	T47	950	1,000	1,060	1,060	1,160	21		
29	2408	OLD LOWES FERRY ROAD	LOWES FERRY ROAD	SR-333 (LOUISVILLE ROAD)	1.97	20	2,137	T10	2,920	3,410	3,890	4,380	4,870	23		
30	4816	OLD NILES FERRY ROAD	BRICK MILL ROAD	SOUTH SPRINGVIEW ROAD	2.17	19	740	M21	770	780	800	820	840	22	50	
31	4816	OLD NILES FERRY ROAD	SOUTH SPRINGVIEW ROAD	US 129 CALDERWOOD HWY	2.19	19	740	M21	770	780	800	820	840	22	50	
32	4816	OLD NILES FERRY ROAD	US 129 CALDERWOOD HWY	MARYVILLE CITY LIMITS	3.33	19	4,836	T203	5,850	6,580	7,300	8,030	8,750	22	50	
33	2395	OLD WALLAND ROAD	ELLEJOY ROAD	COLD SPRINGS ROAD	1.81	18	1,177	T46	1,590	1,840	2,100	2,360	2,610	24		
34	3299	OLD WHITES MILL ROAD	WILKINSON PIKE	PLEASANT HILL ROAD	2.15	15	883	T51	1,140	1,320	1,490	1,660	1,830	21		
35	3297	PLEASANT HILL ROAD	TUCKALEECHEE PIKE	WILKINSON PIKE	1.61	18	643	T141	710	760	810	860	910	23		
36	2402	PROSPECT ROAD	JEFFERIES HOLLOW ROAD	US 411 (SEVIERVILLE ROAD)	1.52	18	840	T19	1,000	1,090	1,170	1,260	1,340	22		
37	2408	RALPH PHELPS ROAD	LOWES FERRY ROAD	SR-333 (QUARRY ROAD)	1.77	20	832	S24	1,010	1,130	1,260	1,380	1,510	23		
38	4820	TUCKALEECHEE PIKE	MARYVILLE CITY LIMITS	PLEASANT HILL ROAD	0.78	19	3,143	T44	3,250	3,330	3,410	3,490	3,570	26	30	
39	4820	TUCKALEECHEE PIKE	PLEASANT HILL RD.	US 321 (SR.73)	2.32	19	3,143	T44	3,250	3,330	3,410	3,490	3,570	26	30	
40	3297	TUCKALEECHEE TRAIL	TUCKALEECHEE PIKE	US 321 (SR.73)	0.71	17	643	T141	710	760	810	860	910	24		
41	1271	WALKER ROAD	MORGANTON ROAD	BIG SPRINGS ROAD	2.10	18	1,318	T187	1,590	1,790	1,990	2,190	2,390	26		
42	1266	WILKINSON PIKE	BLOCKHOUSE ROAD	PLEASANT HILL ROAD	1.53	18	3,000	T141	3,630	4,080	4,530	4,980	5,430	25		
43	1023	FOUR MILE ROAD	US 129 (SR 115)	SR-336 SIX MILE ROAD	1.65	18	248	T155	340	370	400	430	460	40		
44	1267	HOPEWELL ROAD	MORGANTON ROAD	CLOVER HILL MILL ROAD	1.28	18	1,419	T63	1,480	1,660	1,830	2,010	2,190	40		
45	1267	CLOVER HILL ROAD	CLOVER HILL MILL ROAD	US 411 (SR 33)	0.59	18	1,419	T63	1,480	1,660	1,830	2,010	2,190	40		

**Table 4
LOCAL STREET DATABASE AND PROJECTED TRAFFIC
2004 ROADWAY NEEDS STUDY
Blount County, Tennessee**

Route Number	Route Name	Description		Length (Miles)	Roadway Width	ADT		Projected Traffic (ADT)					ROW	
		Beginning	Ending			(2003)	Count Station	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	min (ft)	max (ft)
1	PEA RIDGE ROAD	RIVER FORD ROAD	DOC NORTON ROAD	2.66	18	1,248	UT	1,510	1,700	1,880	2,070	2,260	23	
2	DOC NORTON ROAD	SEVIERVILLE ROAD (US 411)	PROSPECT ROAD	1.70	16	1,280	UT	1,550	1,740	1,930	2,120	2,320	24	
3	EAST MILLER COVE ROAD	OLD WALLAND HIGHWAY	SADDLE RIDGE ROAD	4.00	16.5	588	BLOUNT CO.	710	800	890	980	1,060		
4	EAST MILLER COVE ROAD	SADDLE RIDGE ROAD	SEVIER/BLOUNT COUNTY LINE	2.40	16	116	BLOUNT CO.	140	160	180	190	210		
5	HOWARD SCHOOL ROAD	THOMPSON BRIDGE ROAD	TOMOTLEY ROAD	2.70	18.3	929	UT	1,120	1,260	1,400	1,540	1,680	24	

ROADWAY CLASSIFICATIONS

Blount County, Tennessee



LEGEND

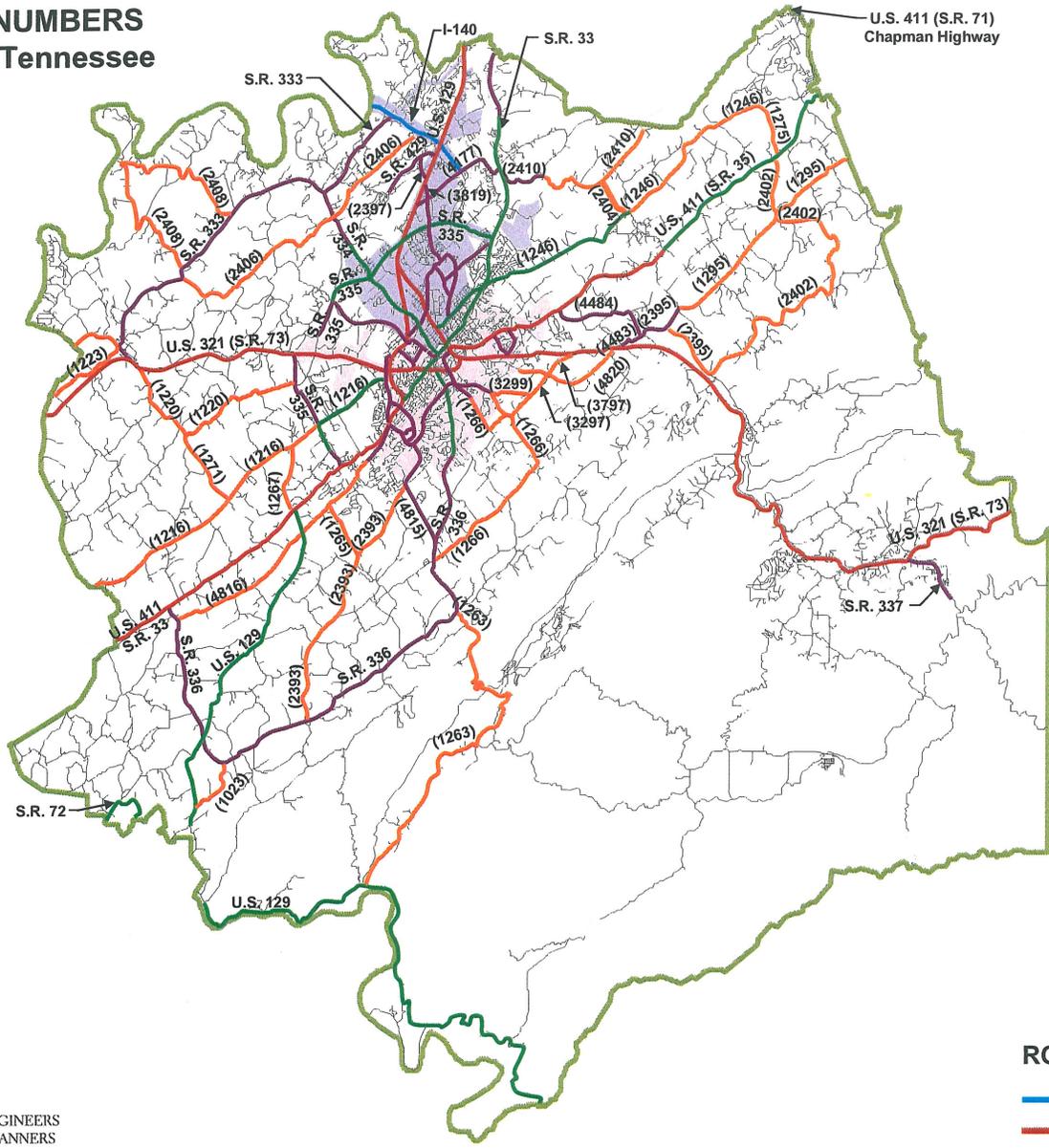
ROADWAY CLASSIFICATIONS

	INTERSTATE
	MAJOR ARTERIAL
	MINOR ARTERIAL
	MAJOR COLLECTOR
	MINOR COLLECTOR



Figure 1

TDOT ROUTE NUMBERS Blount County, Tennessee



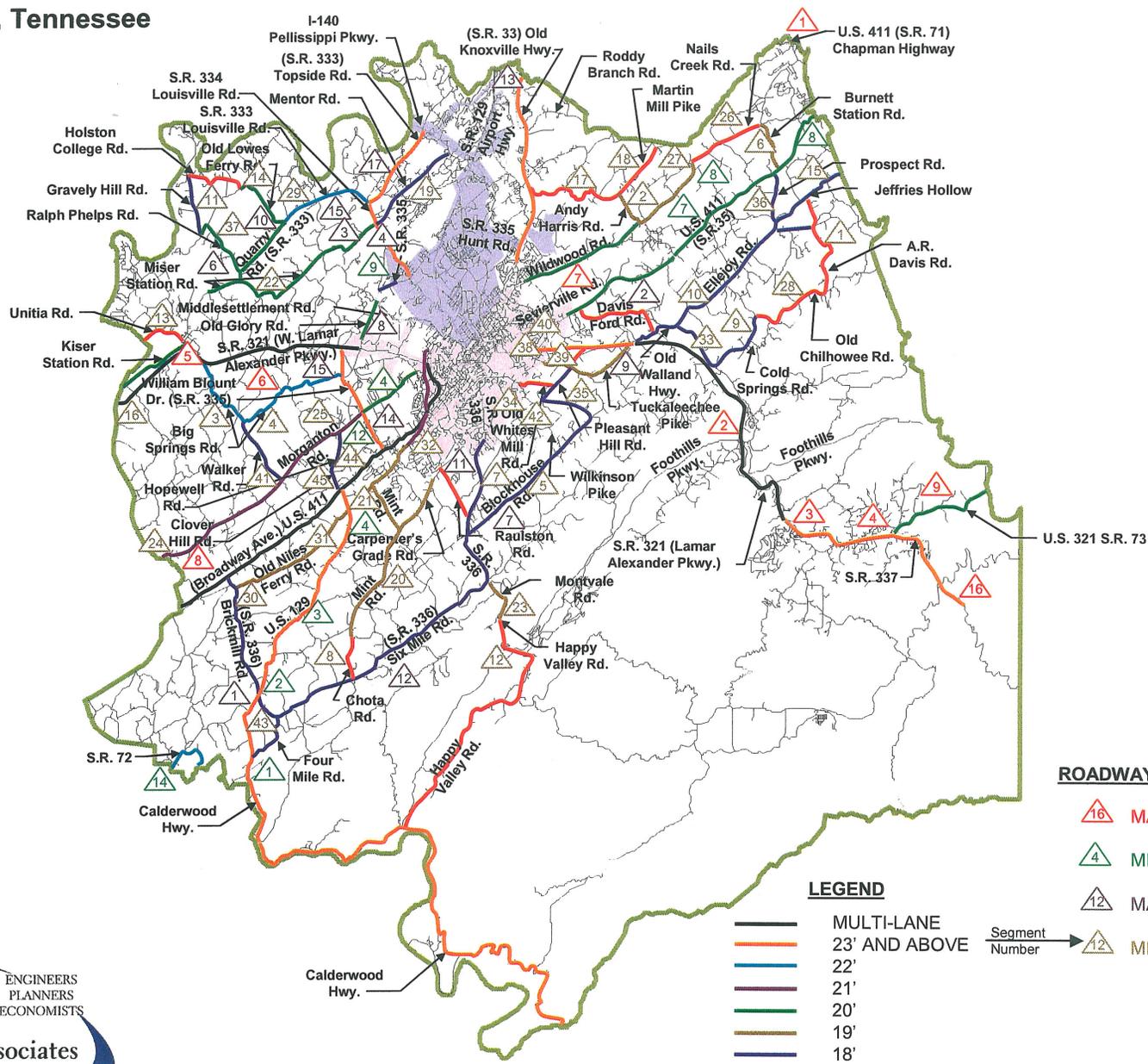
ROADWAY CLASSIFICATIONS

- INTERSTATE
- MAJOR ARTERIAL
- MINOR ARTERIAL
- MAJOR COLLECTOR
- MINOR COLLECTOR



Figure 2

ROADWAY WIDTHS Blount County, Tennessee



ROADWAY CLASSIFICATIONS

- ▲16 MAJOR ARTERIAL
- ▲4 MINOR ARTERIAL
- ▲12 MAJOR COLLECTOR
- ▲12 MINOR COLLECTOR

LEGEND

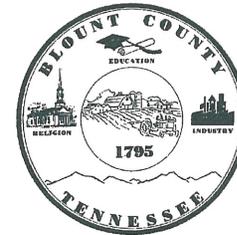
- MULTI-LANE
- 23' AND ABOVE
- 22'
- 21'
- 20'
- 19'
- 18'
- 17'
- 16' OR LESS

Segment Number →



Wilbur Smith Associates

Figure 4



SECTION 2

EVALUATION AND ANALYSIS



SECTION 2

EVALUATION AND ANALYSIS

Survey responses from the public meetings and input from area stakeholders during the initial *2000 Roadway Needs Study* were useful in helping to evaluate the necessary roadway improvements.

Figure 5 depicts locations throughout Blount County that were considered high congested and high accident locations according to the 2000 public hearings.

Year 2004 accident data was obtained from the Blount County Sheriff's department and summarized in Figure 6. The number of accidents is shown along each roadway corridor, but does not specify the exact intersection. Morganton Road ranks first among the roadway segments shown with 56 accidents during 2004. Although 1997 accident data were used in the previous report, Morganton Road was ranked first with 76 accidents. In 2000, Old Niles Ferry Road was ranked second with 42 accidents recorded. However this year, Tuckaleechee Pike near Whites Mill Road ranks second with 22 accidents while Old Niles Ferry Road had 20 traffic accidents recorded along its corridor.

Figure 7 gives an update of signalized intersections in Blount County. Since the earlier study, two additional

traffic signals were installed including U.S. 411 at U.S. 129 and William Blount Drive at Big Springs Road to add to the five intersections already signalized. Although earlier studies identified that the intersections of Louisville Road at Topside Road and Louisville Road at Miser Station/Mentor Road met the criteria for traffic signals, further investigations are still ongoing and lie within the jurisdiction of the City of Alcoa. The remaining unsignalized intersections listed are still a concern, however they did not meet signal warrants at this time.

Table 5 presents a summary of priorities from the 2000 study and their status in 2004. Most of the deficient roads in 2000 are deficient today. Moreover, some roads that were projected to be deficient in the long-range future have realized greater traffic growth and consequently are deficient in 2004.

Existing roadway volumes and width as shown on Table 6 help to identify today's deficient roadways in Blount County. Twelve roadway segments were not identified as an existing deficiency in 2000, and therefore are new to the "existing needs" list. Although local roads were not included in the 2000 study, Doc Norton Road exceeded

**Table 5
PRIORITIES FROM 2000 STUDY
Blount County, Tennessee**

2000 STUDY		PRIORITY FOR 2004 STUDY	SEGMENT	CLASSIFICATION	ROAD	ROAD WIDTH	VOLUME CRITERIA	VOLUME AND YEAR WHEN ROADWAY SHOULD EXCEED CRITICAL VALUE (2000 STUDY)						
PRIORITY	YEAR							Existing	2005	2010	2015	2020	2025	
1	Existing	Existing	8	Minor Collector	Chota Road	17	1,000	1,469						
1	Existing	Existing	10	Minor Collector	Ellejoy Road	18	2,000	3,519						
1	Existing	Existing	17	Minor Collector	Martin Mill Pike	16	500	2,948						
1	Existing	Existing	18	Minor Collector	Martin Mill Pike	16	500	505						
1	Existing	Existing	26	Minor Collector	Nails Creek Road	14	250	805						
1	Existing	Existing	32	Minor Collector	Old Niles Ferry Road	19	3,000	4,558						
1	Existing	Existing	34	Minor Collector	Old Whites Mill Road	15	250	662						
1	Existing	Existing	38	Minor Collector	Tuckaleechee Pike	19	3,000	3,200						
1	Existing	Existing	42	Minor Collector	Wilkinson Pike	18	2,000	2,922						
1	Existing	Existing	2	Major Collector	Davis Ford Road	16	500	831						
1	Existing	Existing	5	Major Collector	Martin Mill Pike	16	500	2,948						
1	Existing	Existing	7	Major Collector	Montvale Road	18	2,000	4,398						
1	Existing	Existing	8	Major Collector	Old Glory Road	20	4,000	5,240						
1	Existing	Existing	9	Major Collector	Old Walland Highway	18	2,000	3,500						
1	Existing	Existing	11	Major Collector	Raulston Road	17	1,000	4,332						
1	Existing	Existing	4	Minor Arterial	Morganton Road	21	5,000	5,829						
1	Existing	Existing	5	Minor Arterial	Old Knoxville Highway	24-36	10,000	10,069						
1	Existing	Existing	6	Minor Arterial	Sevierville Road	20	4,000	4,280						
1	Existing	Existing	7	Minor Arterial	Sevierville Road	20	4,000	4,280						
2	2005	Existing	1	Major Collector	Brick Mill Road	18	2,000	1,564	2,013					
2	2005	2015	15	Major Collector	William Blount Road	24	6,000	5,003	6,647					
3	2005	Existing	8	Minor Arterial	Sevierville Road	20	4,000	3,682	4,492					
3	2010	2020	14	Major Collector	William Blount Road	24	6,000	3,600	4,783	5,985				
3	2010	2020	16	Major Collector	Smoky Mountain Highway	24	10,000	5,200	7,376	9,871				
3	2010	Existing	17	Major Collector	Topside Road	24	10,000	7,264	8,800	10,305				
3	2010	2025	11	Minor Arterial	Wildwood Road	20	4,000	3,035	3,133	4,268				
4	2015	2015	12	Major Collector	Six Mile Road	18	2,000	1,220	1,461	1,712	2,004			
5	2020	2010	7	Minor Collector	Carpenter's Grade Road	19	3,000	1,469	1,913	2,295	2,756	3,308		
5	2020	Existing	13	Minor Collector	Unitia Road	17	1,000	607	764	926	932	1,369		
5	2020	2030	20	Minor Collector	Mint Road	19	3,000	1,469	1,913	2,295	2,756	3,308		
5	2020	Existing	25	Minor Collector	Morganton Road	21	5,000	3,930	4,182	4,476	4,786	5,123		
5	2020	2020	33	Minor Collector	Old Walland Highway	18	2,000	1,172	1,489	1,891	2,405	3,052		
5	2020	2020	12	Minor Arterial	William Blount Road	24	6,000	3,600	3,874	4,603	5,471	6,495		
6	2025	None	12	Minor Collector	Happy Valley Road	17	1,000	249	353	473	633	846	1,132	
6	2025	2025	21	Minor Collector	Mint Road	19	3,000	1,919	2,101	2,310	2,451	2,797	3,075	
6	2025	Existing	3	Major Collector	Louisville Road	22	6,000	4,816	5,170	5,414	5,665	5,935	6,206	
6	2025	2030	6	Major Collector	Miser Station Road	20	4,000	1,737	2,192	2,660	2,668	3,934	4,779	

Table 6
EXISTING DEFICIENT ROADS
Blount County, Tennessee

ROAD CLASSIFICATION	SEGMENT	ROAD	WIDTH	VOLUME CRITERIA	1997 ADT	2003 ADT	PREVIOUS PRIORITY
Minor Arterial	5	Morganton Road	21	5,000	5,829	6,220	Immediate
Minor Arterial	6	Old Knoxville Highway*	24	10,000	10,069	11,160	Immediate
Minor Arterial	7	Sevierville Road	20	4,000	4,280	5,952	Immediate
Minor Arterial	8	Sevierville Road	20	4,000	4,280	5,952	Immediate
Minor Arterial	9	Sevierville Road	20	4,000	3,682	4,780	2005
Minor Arterial	10	West Hunt Road	18	2,000	764	4,180	(1)
Major Collector	1	Brick Mill Road	18	2,000	1,564	2,326	2005
Major Collector	2	Davis Ford Road	16	500	831	1,466	Immediate
Major Collector	3	Louisville Road	22	6,000	4,816	7,041	2025
Major Collector	5	Martin Mill Pike	16	500	2,948	2,425	Immediate
Major Collector	7	Montvale Road	18	2,000	4,398	5,173	Immediate
Major Collector	8	Old Glory Road	20	4,000	5,240	6,521	Immediate
Major Collector	9	Old Walland Highway	18	2,000	3,500	4,401	Immediate
Major Collector	11	Raulston Road	18.5	1,000	4,332	4,700	Immediate
Major Collector	17	Topside Road*	24	10,000	7,264	10,385	2010
Minor Collector	8	Chota Road	17	1,000	1,469	1,676	Immediate
Minor Collector	10	Ellejoy Road	18	2,000	3,519	4,061	Immediate
Minor Collector	17	Martin Mill Pike	16	500	2,948	2,455	Immediate
Minor Collector	18	Martin Mill Pike	16	500	505	621	Immediate
Minor Collector	19	Mentor Road	18	2,000	1,450	2,286	(1)
Minor Collector	25	Morganton Road	21	5,000	3,930	5,390	2020
Minor Collector	26	Nails Creek Road	16	250	805	750	Immediate
Minor Collector	32	Old Niles Ferry Road	19	3,000	4,558	4,836	Immediate
Minor Collector	34	Old Whites Mill Road	15	250	662	883	Immediate
Minor Collector	38	Tuckaleechee Pike	19	3,000	3,200	3,143	Immediate
Minor Collector	39	Tuckaleechee Pike	19	3,000	1,269	3,143	(1)
Minor Collector	42	Wilkinson Pike	18	2,000	2,922	3,000	Immediate
Local Street	2	Doc Norton Road	16	500	N/A	1,280	(2)

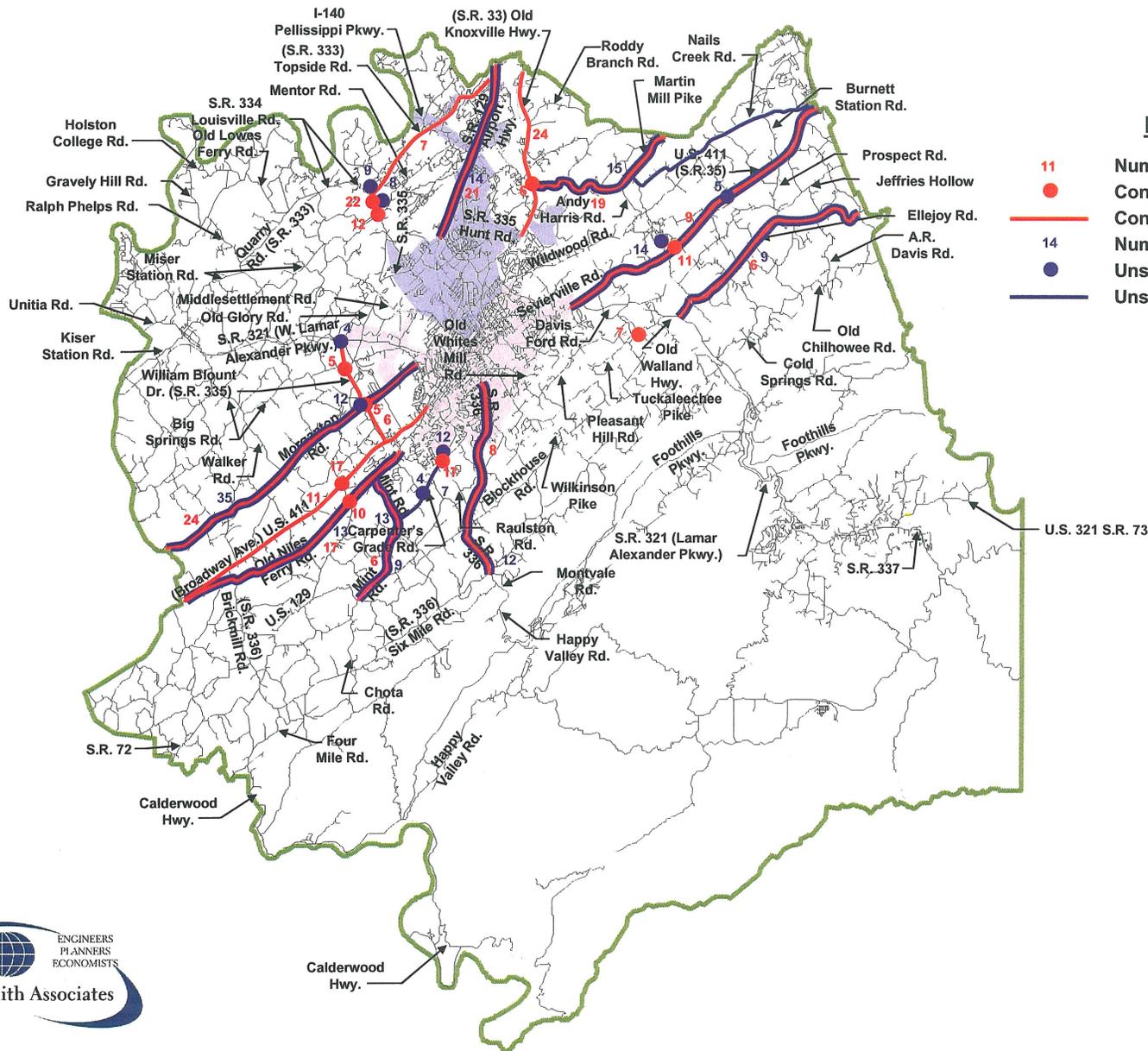
Bold/Italic: Roadways that are new to "existing need" list

(1) Did not make priority list at all in 2000 study.

(2) 2000 study did not include any local roads.

* Multi-lane section should be considered

PROBLEM AREAS BASED ON PUBLIC HEARING AND SURVEY RESPONSES- 2000 STUDY Blount County, Tennessee



LEGEND

- 11 Number Mentioned
- Congested Intersection
- Congested Roadway Segments
- 14 Number Mentioned
- Unsafe Intersection
- Unsafe Roadway Segments

Figure 5

BLOUNT COUNTY HIGH ACCIDENT ROADS – 2003 DATA Blount County, Tennessee

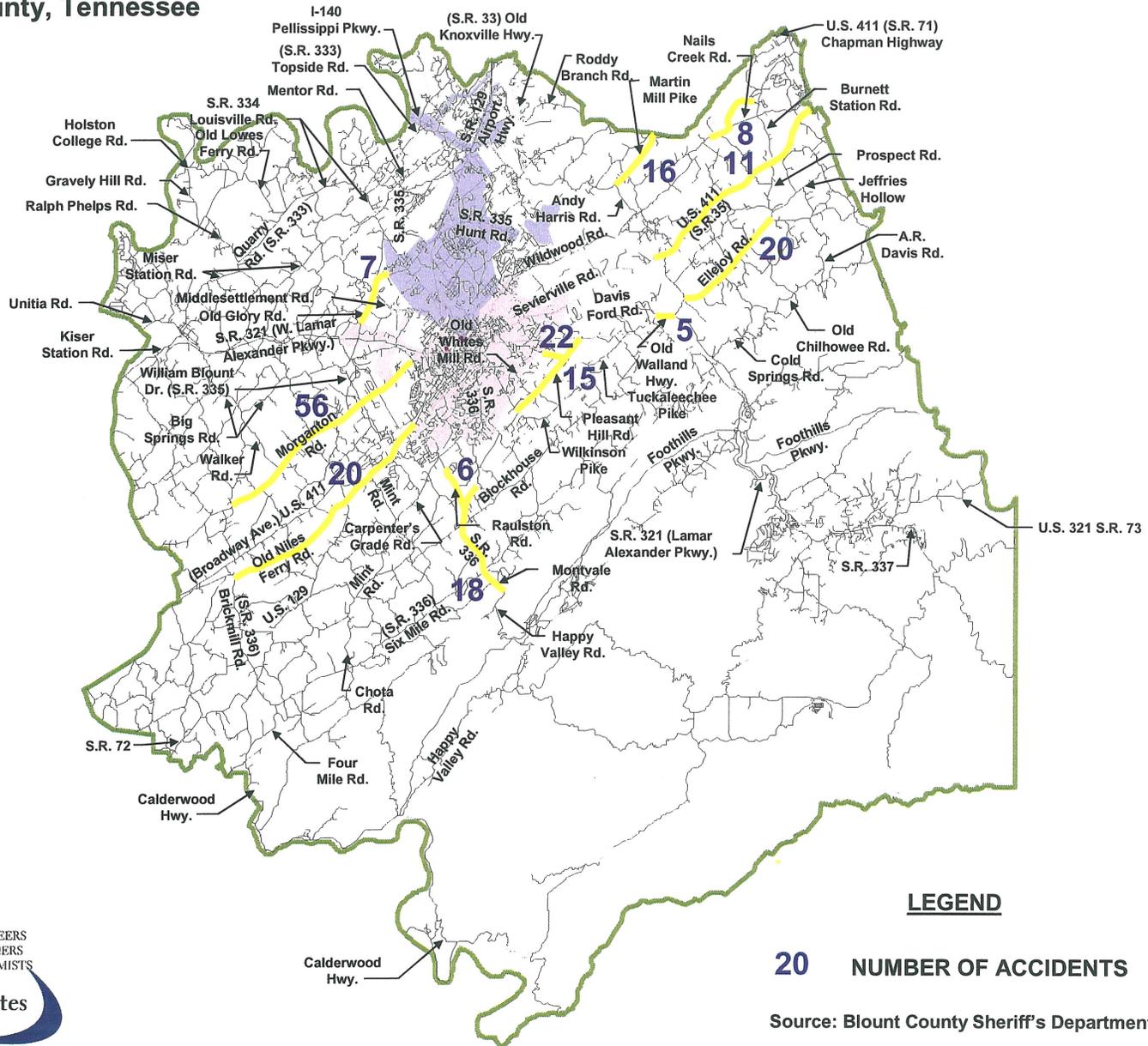
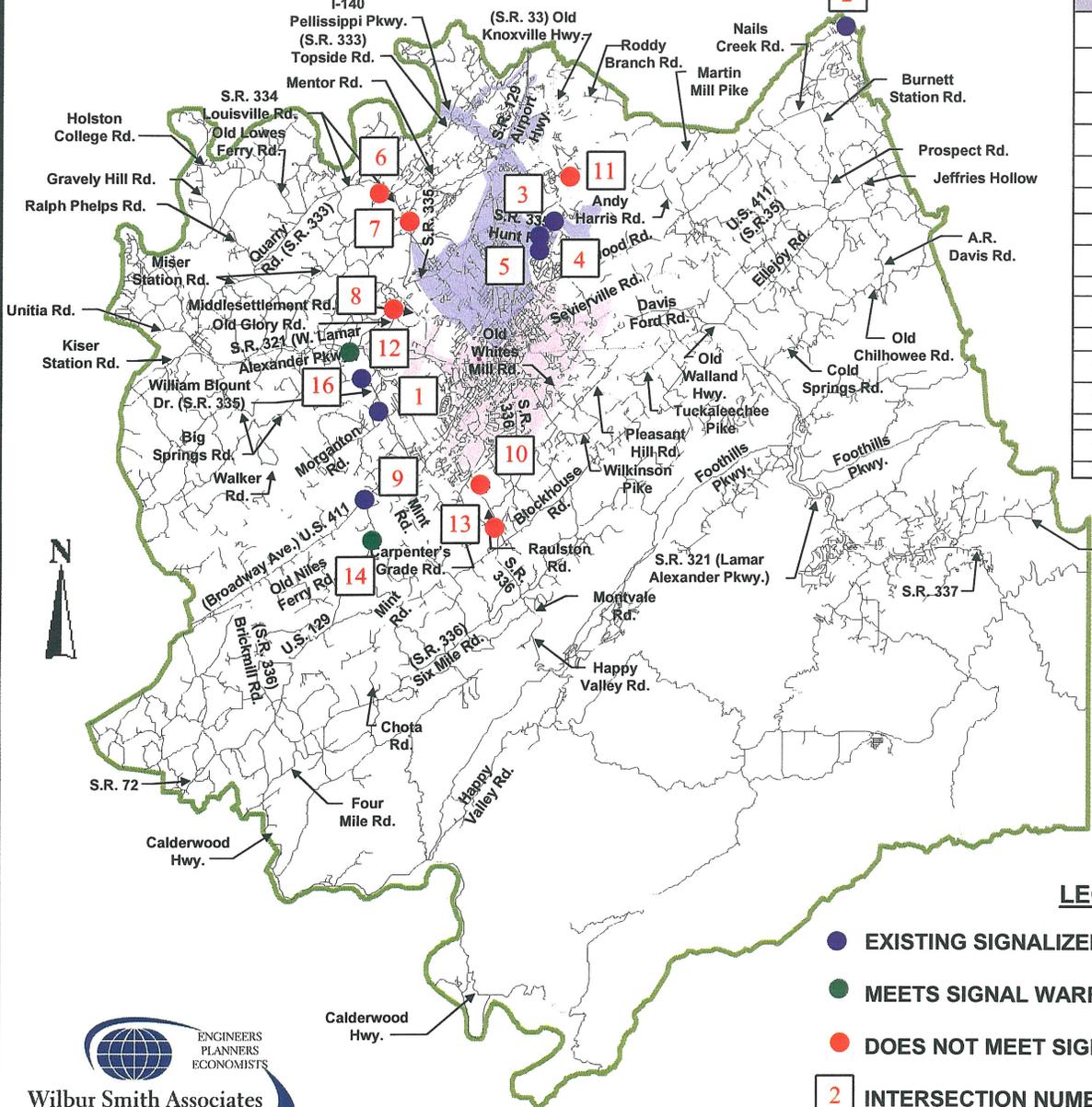


Figure 6

SIGNALIZED AND POTENTIAL SIGNALIZED LOCATIONS- 2000 STUDY **SIGNALIZED LOCATIONS AND POTENTIAL SIGNALIZED LOCATIONS**

Blount County, Tennessee



	MAIN ROAD	INTERSECTING STREET	STATUS	MEETS SIGNAL WARRANTS
1	William Blount Drive	Morganton Road	SIGNALIZED	EXISTING
2	Chapman Highway	Burnett Station Road	SIGNALIZED	EXISTING
3	SR 33 (Old Knoxville Highway)	East Hunt Road	SIGNALIZED	EXISTING
4	SR 33 (Old Knoxville Highway)	McArthur Road	SIGNALIZED	EXISTING
5	SR 33 (Old Knoxville Highway)	DeFoe Circle (Main Street)	SIGNALIZED	EXISTING
6	Louisville Road	Topside Road	UNSIGNALIZED	NO
7	Louisville Road	Miser Station/ Mentor Road	UNSIGNALIZED	NO
8	Old Glory Road	Middlesettlements Road	UNSIGNALIZED	NO
9	US 411	US 129	SIGNALIZED	EXISTING
10	Raulston Road/Carpenter's Grade/ Cochran/ Peterson Lane		UNSIGNALIZED	NO
11	US 321	Tuckaleechee Pike	UNSIGNALIZED	YES
12	US 321	SR 335-William Blount Drive	UNSIGNALIZED	YES
13	SR 336 Montvale Road	Raulston Road	UNSIGNALIZED	NO
14	US 129	Huffstetter Road	UNSIGNALIZED	YES
15	SR 33 (Old Knoxville Highway)	Martin Mill Pike	UNSIGNALIZED	NO
16	William Blount Drive	Big Springs Road	SIGNALIZED	EXISTING

LEGEND

- EXISTING SIGNALIZED INTERSECTION
- MEETS SIGNAL WARRANTS
- DOES NOT MEET SIGNAL WARRANTS

2 INTERSECTION NUMBER CORRESPONDS TO TABLE



Figure 7

its volume criteria nearly three times causing it to become classified as a deficient roadway.

West Hunt Road, Mentor Road and Tuckaleechee Pike where not priorities during the 2000 study but an increase in traffic caused them to exceed the established roadway criteria based on ADT and roadway width.

Nineteen roadways (four minor arterials, six major collectors, and nine minor collectors) with an existing deficiency in 2000 are also considered to be deficient in 2004. These roadways exceeded the volume criteria in 1997 and 2003.

The 2000 Roadway Needs Study identified that Sevierville Road, a minor arterial roadway, and major collector, Brick Mill Road, had previously been recommended for improvements in Year 2005. Current analyses reveal that they are now on the existing deficiencies list. In other words, they are tracking as was anticipated in 2000.

Cloverhill Ridge Road and Topside Road between Louisville Road and the I-140 (Pellissippi Parkway) ramps had a previous priority listing for improvements of Year 2010. Topside Road also now exceeds its volume criteria of 10,000 for a 24-ft roadway.

Louisville Road, a 22-ft major collector roadway was recommended for improvements in Year 2025 based on the 1997 ADT volume of 4,816. The 2003 ADT of 7,041 exceeds the volume criteria (6,000), so it has been reclassified as an existing need.

Table 7 is a listing of roadways that should have deficiencies in the future if the traffic volume increases at the anticipated rate. Eleven roadways are new to the "existing need" list with one minor collector street, Unitia Road having a previous priority recommendation for improvements in Year 2020. Two local roads added to this year's study, East Miller Cove Road and Pea Ridge Road have priority years of 2015 and 2025, respectively.

The data in Tables 1 through 4 have been plotted on a X-Y graph and illustrated in Figures 8-13. Figure 8 is a graph of existing conditions and Figures 9-13 represent projected traffic at 5-year intervals through Year 2030.

In addition to the widths and ADT's graph, the graphs show the Minimum Standard Line (MSL) which represents the minimum acceptable roadway width for a given ADT.

**Table 7
FUTURE DEFICIENT ROADS
Blount County, Tennessee**

PRIORITY YEAR	ROAD CLASSIFICATION	SEGMENT	ROAD	WIDTH	VOLUME CRITERIA	Existing	2010	2015	2020	2025	2030	PREVIOUS PRIORITY (1)
2010	Minor Collector	7	Carpenter's Grade Road	19	3,000	2,970	3,840					2020
2010	Minor Collector	13	Unita Road	19	3,000	2,974	3,570					2020
2015	Major Collector	12	Six Mile Road	18	2,000	1,524	1,800	2,040				2015
2015	Major Collector	15	William Blount Drive	24	10,000	7,002	9,270	10,460				2005
2015	Minor Collector	15	Jefferies Hollow Road	18	2,000	1,505	1,950	2,270				None
2015	Minor Collector	28	Old Chilhowee Road	17	1,000	888	950	1,000				None
2015	Local Street	3	East Miller Cove Road	16.5	750	588	710	800				None
2020	Minor Arterial	12	Wildwood Road	20	4,000	3,210	3,660	3,870	4,080			None
2020	Minor Arterial	13	William Blount Drive	24	10,000	6,539	8,250	9,530	10,810			2020
2020	Major Collector	14	William Blount Drive	24	10,000	6,539	8,250	9,530	10,810			2010
2020	Major Collector	13	Old Knoxville Highway	24	10,000	7,457	8,420	9,410	10,400			None
2020	Major Collector	16	Smoky Mountain Highway	24	10,000	7,029	8,280	9,420	10,560			2010
2020	Minor Collector	33	Old Walland Highway	18	2,000	1,177	1,590	1,840	2,100			2020
2025	Minor Collector	21	Mint Road	19	3,000	2,089	2,620	2,780	2,940	3,100		2025
2025	Minor Collector	29	Old Lowes Ferry Road	20	4,000	2,137	2,920	3,410	3,890	4,380		None
2025	Minor Collector	41	Walker Road	18	2,000	1,318	1,590	1,790	1,990	2,190		None
2025	Minor Collector	44	Hopewell Road	18	2,000	1,419	1,480	1,660	1,830	2,010		None
2025	Minor Collector	45	Clover Hill Road	18	2,000	1,419	1,480	1,660	1,830	2,010		None
2025	Local Street	1	Pea Ridge Road	18	2,000	1,248	1,510	1,700	1,880	2,070		None
2030	Minor Arterial	11	Wildwood Road	20	4,000	3,521	3,640	3,730	3,820	3,910	4,000	2010
2030	Major Collector	6	Miser Station Road	20	4,000	2,224	2,710	3,070	3,070	3,790	4,150	2025
2030	Minor Collector	20	Mint Road	19	3,000	1,676	2,160	2,420	2,680	2,950	3,210	2020

(1) From 2000 Study.

Bold/Italic: Roadways that are new to "existing need" list

EXISTING ADT VS ROADWAY CLASSIFICATION WIDTHS BLOUNT COUNTY ROADWAY NEEDS STUDY UPDATE Blount County, Tennessee

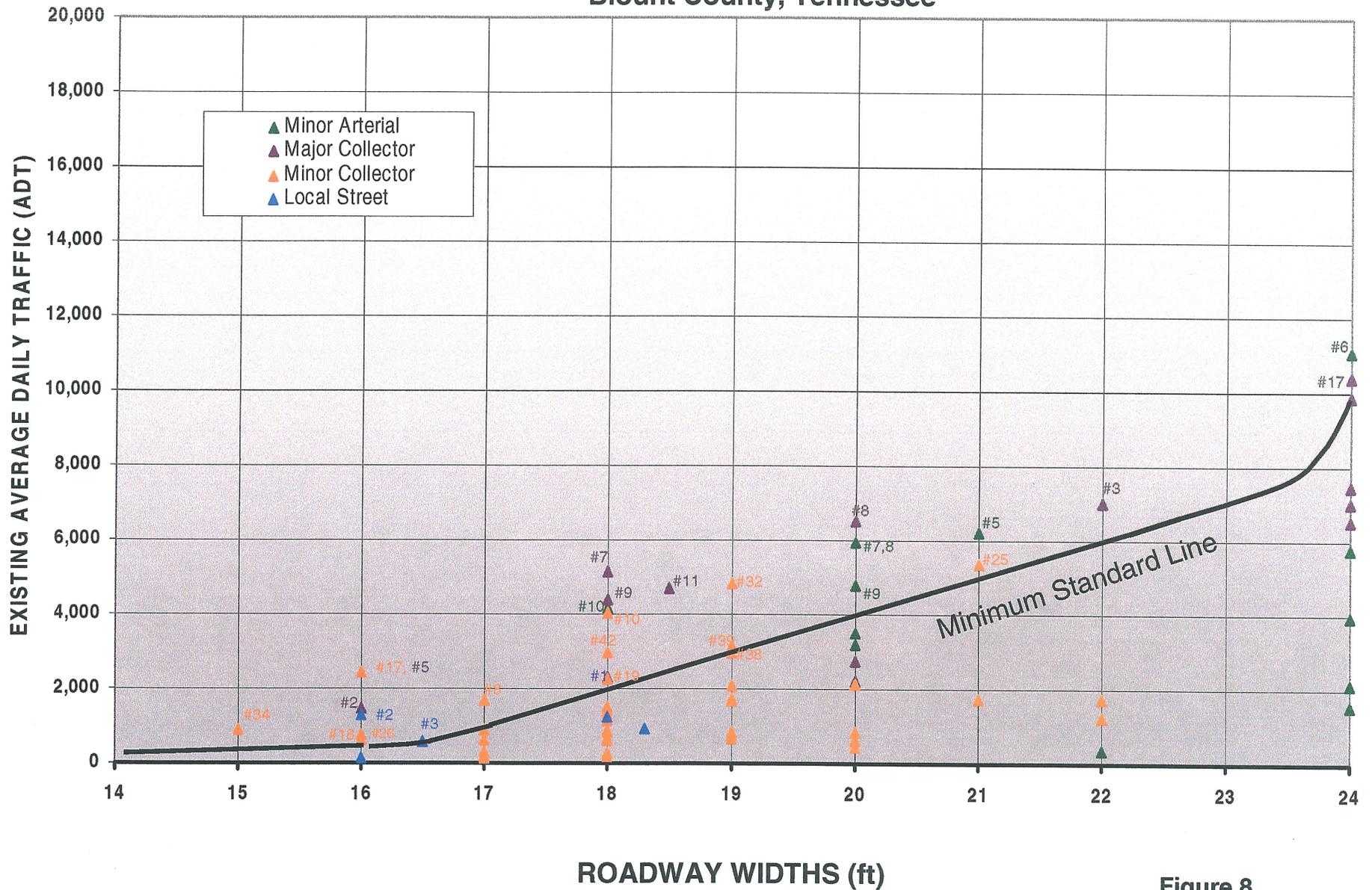


Figure 8

2010 ADT VS ROADWAY CLASSIFICATION WIDTHS BLOUNT COUNTY ROADWAY NEEDS STUDY UPDATE Blount County, Tennessee

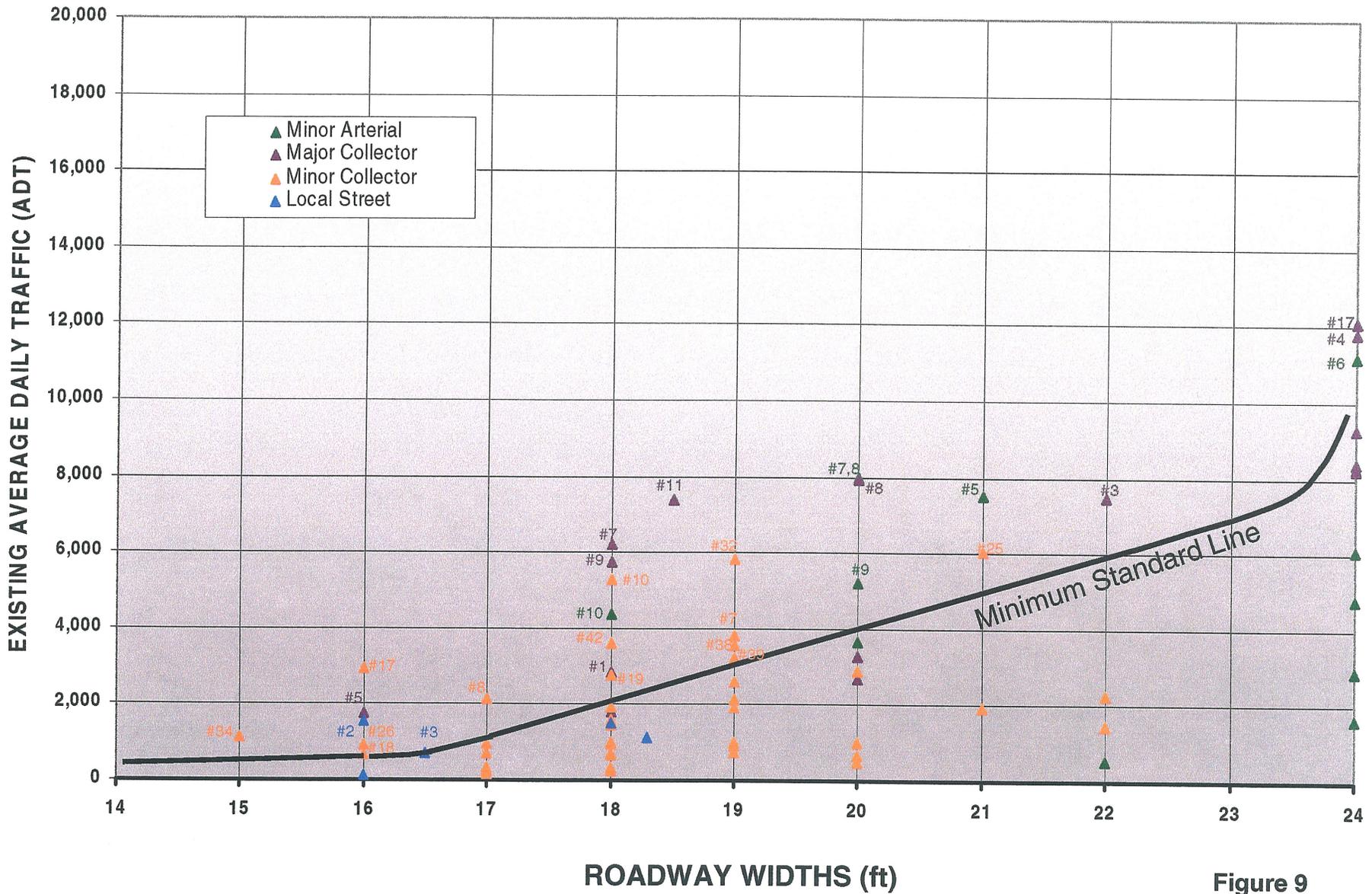


Figure 9

2015 ADT VS ROADWAY CLASSIFICATION WIDTHS BLOUNT COUNTY ROADWAY NEEDS STUDY UPDATE Blount County, Tennessee

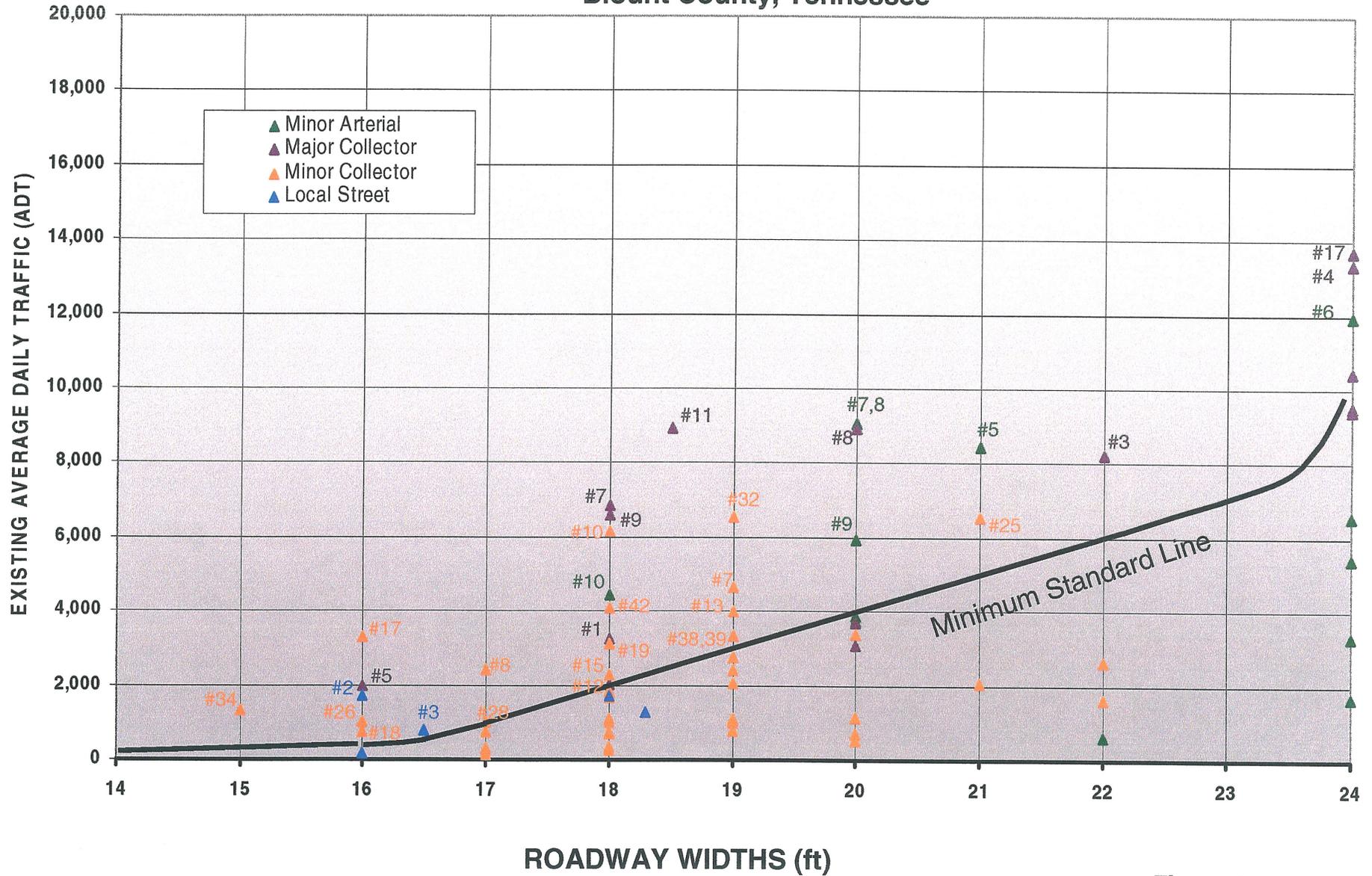


Figure 10

2020 ADT VS ROADWAY CLASSIFICATION WIDTHS BLOUNT COUNTY ROADWAY NEEDS STUDY UPDATE Blount County, Tennessee

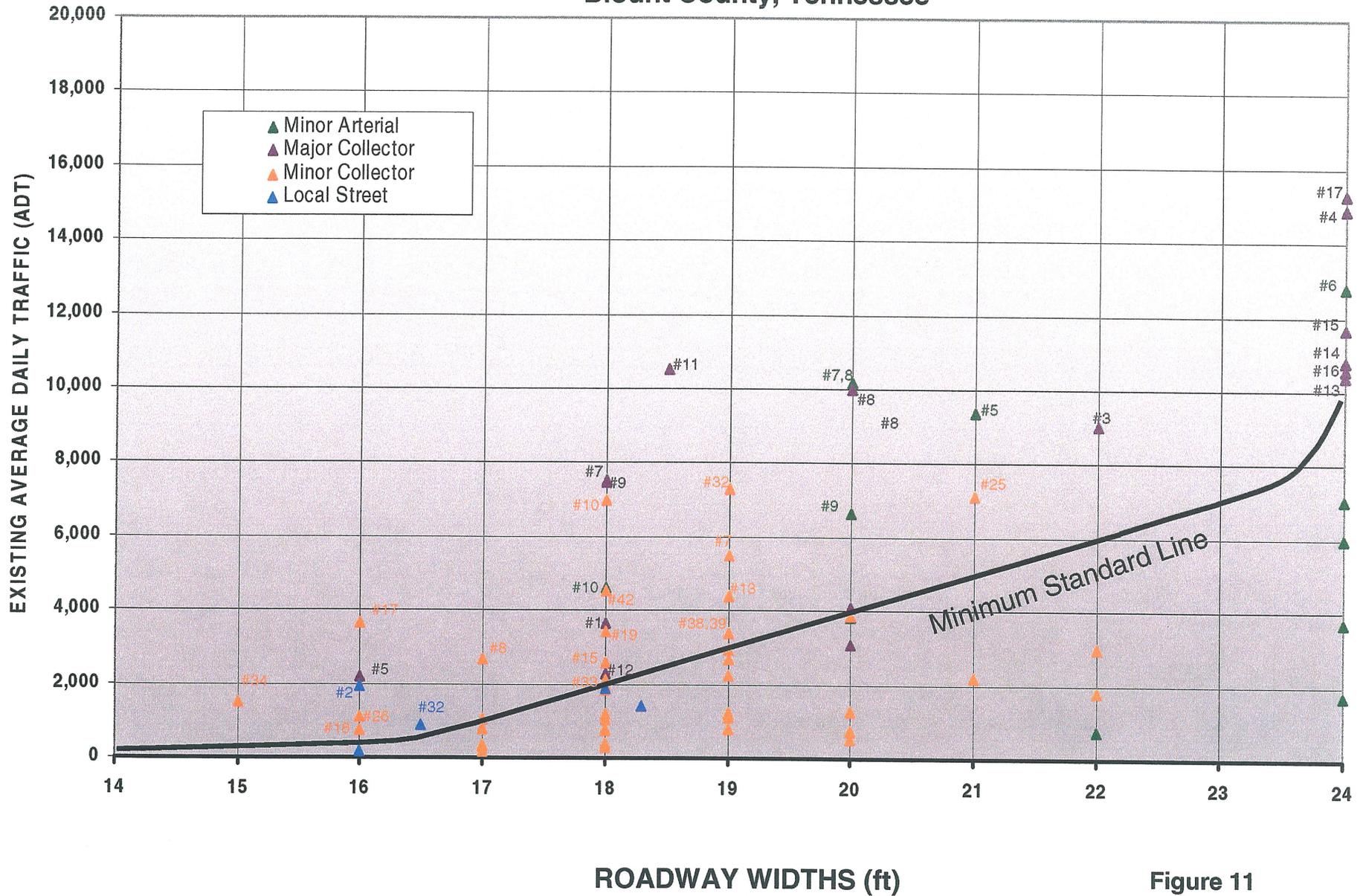


Figure 11

2030 ADT VS ROADWAY CLASSIFICATION WIDTHS BLOUNT COUNTY ROADWAY NEEDS STUDY UPDATE Blount County, Tennessee

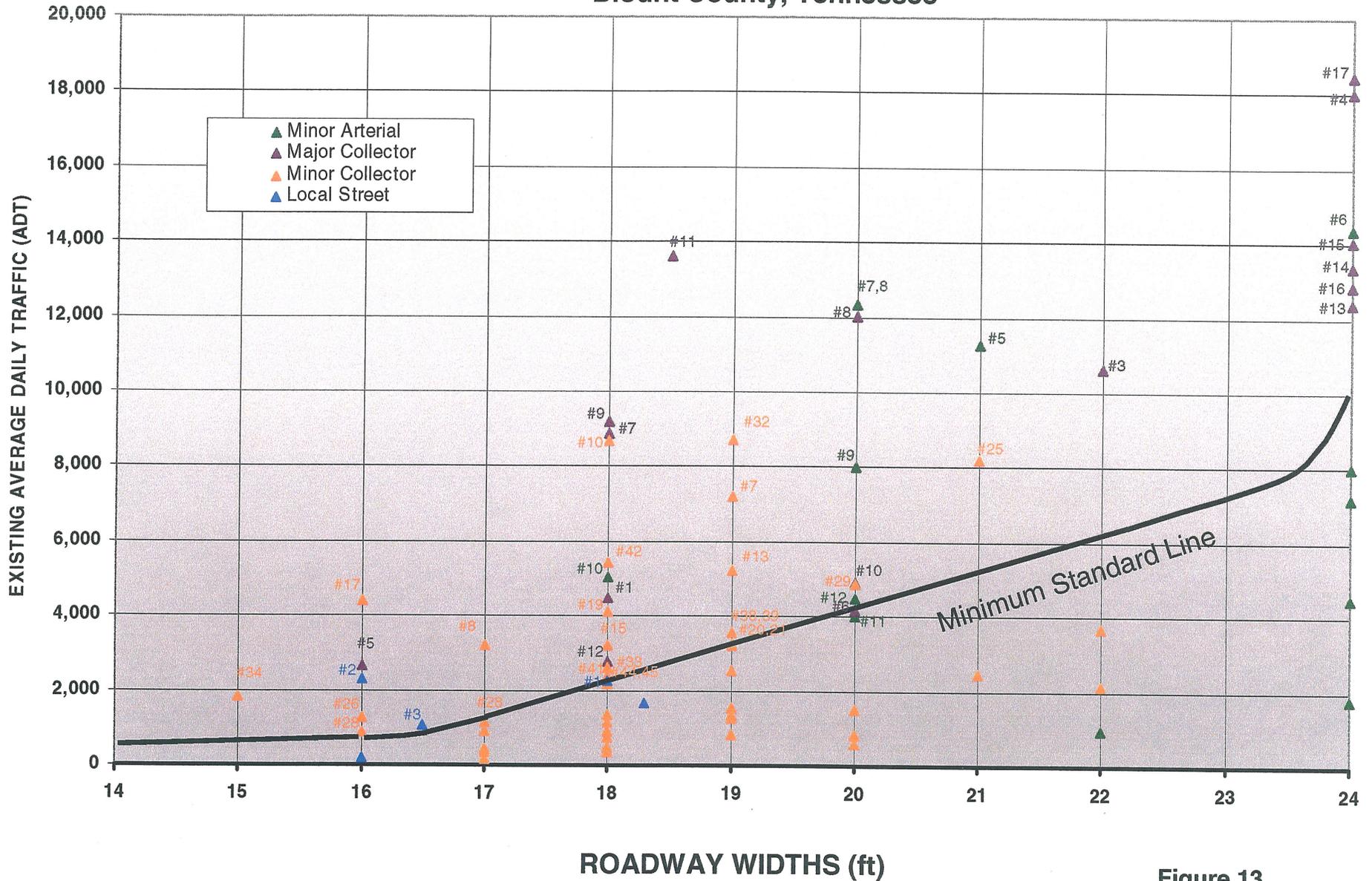


Figure 13

The graph consists of the following points:

<u>WIDTH</u>	<u>ADT</u>
14	250
15	250
16	500
17	1,000
18	2,000
19	3,000
20	4,000
21	5,000
22	6,000
23	7,000
24	10,000

Roadway segments above this line are considered deficient and should be programmed for improvements. The number and color of each point represents the segment numbers in Table 1-4 and the road classification.



SECTION 3

ISOLATED IMPROVEMENTS



SECTION 3

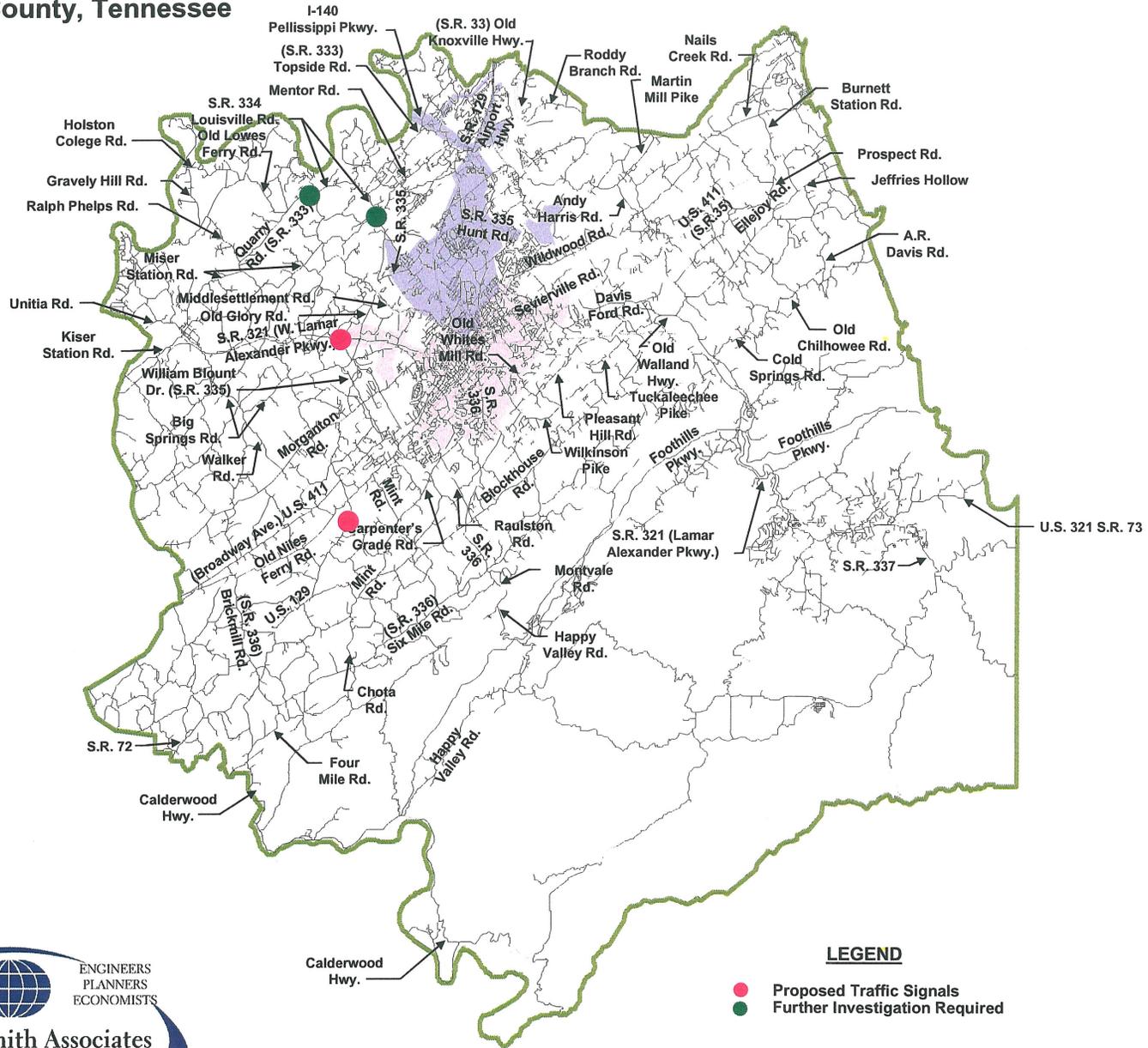
ISOLATED IMPROVEMENTS

The previous study identified numerous intersections and locations that were in need of short-term improvements. These improvements ranged from traffic signals to geometry.

Several short-term improvements have been made including the removal of a chain link fence on the corner of Sevierville Road (U.S. 411) and Doc Norton Road, eliminating an unsafe sight distance problem at this intersection. Additionally, geometric improvements to the five-point intersection of Carpenter's Grade/Raulston Road/ Peterson Lane and Cochran Road have improved sight distance and traffic flow at this intersection significantly.

The remaining isolated improvement recommendations from the 2000 study that have not been made are depicted in Figure 14.

ISOLATED IMPROVEMENTS Blount County, Tennessee



LEGEND
● Proposed Traffic Signals
● Further Investigation Required

Figure 14



SECTION 4

ROADWAY IMPROVEMENT RECOMMENDATIONS



SECTION 4

ROADWAY IMPROVEMENT RECOMMENDATIONS

Recommendations from the 2000 Study identified the need to improve existing two lane roadways to the typical 24-ft roadway width with adequate shoulders. Recommendations also included the need to upgrade some existing facilities to multi-lane sections to accommodate the significant increase in traffic along some major roadways.

For the deficient roads identified in Tables 6 and 7, recommended improvements and roadway costs were developed and are shown in Tables 8 and 9 for immediate and long-term priorities, respectively. Based on each roadway deficiency, estimated costs for improvements were established. The estimated costs only represents construction costs. Cost of right-of-way acquisition, design, and utility relocation were not included in the roadway cost estimate.

The cost estimates were based on a typical two-lane roadway width of 30 feet. (2-12-ft lanes with 2- 3ft shoulder). For a multi-lane section a 64 feet width was used (5- 12ft lanes with 2- 2-ft curb and gutter).

Figure 15 augments Table 8 by identifying roadways with an immediate need for improvement to a better two lane typical section. Of the 25 roads listed for immediate road improvements, 11 are state routes. All but two of the roadways are less than the desired 24-ft width for two-lane roadways, so there is an immediate need to provide a wider road, adequate shoulder widths and better curvature. State Routes, Old Knoxville Highway (SR 33) and Topside Road (SR 333), are 24-36' in width but accommodate over 10,000 vehicles per day. Therefore, consideration should be given to improving these state routes to multi-lane facilities. Doc Norton Road, a local road also should receive immediate attention toward widening its existing 16-ft cross section to a better two-lane road.

Several roadways are programmed in the TPO Long Range Transportation Plan (LRTP) for improvements, and these are noted as such in Table 8. These roadways include Martin Mill Pike, Montvale Road, Mentor Road, Nails Creek Road, and Old Niles Ferry Road.

**Table 8
IMMEDIATE ROADWAY IMPROVEMENT RECOMENDATIONS AND COST ESTIMATES
Blount County, Tennessee**

ROADWAY CLASSIFICATION	SEG #	ROAD	LENGTH (MILE)	EXISTING ROADWAY WIDTH (FT)	PROPOSED IMPROVEMENT	COST ESTIMATE	COUNTY RESPONSIBILITY	ESTIMATED COSTS RESPONSIBILITY		TPO LRTP STATUS
							(%)	BLOUNT COUNTY	OTHER	
Minor Arterial	5	Morganton Road	2.06	21	30' *	\$900,000	100	\$900,000	\$0	
Minor Arterial	6	<i>Old Knoxville Highway</i>	4.59	24-36	Multi-lane	\$6,200,000	20	\$1,240,000	\$4,960,000	
Minor Arterial	7	<i>Sevierville Road</i>	1.44	20	30' *	\$700,000	20	\$140,000	\$560,000	
Minor Arterial	8	<i>Sevierville Road</i>	2.18	20	30' *	\$1,000,000	20	\$200,000	\$800,000	
Minor Arterial	9	<i>Sevierville Road</i>	4.51	20	30' *	\$2,100,000	20	\$420,000	\$1,680,000	
Minor Arterial	10	<i>West Hunt Road</i>	0.57	18	30' *	\$300,000	20	\$60,000	\$240,000	
Major Collector	1	<i>Brick Mill Road</i>	3.76	18	30' *	\$2,100,000	20	\$420,000	\$1,680,000	
Major Collector	2	Davis Ford Road	2.88	16	30' *	\$1,900,000	100	\$1,900,000	\$0	
Major Collector	3	<i>Louisville Road</i>	5.06	22	30' *	\$1,900,000	20	\$380,000	\$1,520,000	
Major Collector	5	Martin Mill Pike	1.40	16	30' *	\$900,000	20	\$180,000	\$720,000	2020
Major Collector	7	<i>Montvale Road</i>	4.37	18	30' *	\$2,400,000	20	\$480,000	\$1,920,000	2010
Major Collector	8	<i>Old Glory Road</i>	1.30	20	30' *	\$600,000	20	\$120,000	\$480,000	
Major Collector	9	Old Walland Highway	1.76	18	30' *	\$1,000,000	100	\$1,000,000	\$0	
Major Collector	11	Raulston Road	1.74	17	30' *	\$1,000,000	100	\$1,000,000	\$0	
Major Collector	17	<i>Topside Road</i>	3.01	24	Multi-lane	\$5,800,000	20	\$1,160,000	\$4,640,000	
Minor Collector	8	Chota Road	1.78	17	30' *	\$1,100,000	100	\$1,100,000	\$0	
Minor Collector	10	Ellejoy Road	6.78	18	30' *	\$3,800,000	20	\$760,000	\$3,040,000	2010
Minor Collector	17	Martin Mill Pike	2.91	16	30' *	\$1,900,000	100	\$1,900,000	\$0	2020
Minor Collector	18	Martin Mill Pike	2.00	16	30' *	\$1,300,000	20	\$260,000	\$1,040,000	2020
Minor Collector	19	<i>Mentor Road</i>	3.20	18	30' *	\$1,800,000	20	\$360,000	\$1,440,000	2010
Minor Collector	25	Morganton Road	3.22	21	30' *	\$1,300,000	100	\$1,300,000	\$0	
Minor Collector	26	Nails Creek Road	4.96	14	30' *	\$3,700,000	20	\$740,000	\$2,960,000	2020
Minor Collector	32	Old Niles Ferry Road	3.33	19	30' *	\$1,700,000	20	\$340,000	\$1,360,000	2010
Minor Collector	34	Old Whites Mill Road	2.15	15	30' *	\$1,500,000	100	\$1,500,000	\$0	
Minor Collector	38	Tuckaleechee Pike	0.78	19	30' *	\$400,000	100	\$400,000	\$0	
Minor Collector	39	Tuckaleechee Pike	2.32	19	30' *	\$1,200,000	100	\$1,200,000	\$0	
Minor Collector	42	Wilkinson Pike	1.53	18	30' *	\$800,000	100	\$800,000	\$0	
Local Street	2	Doc Norton Road	1.70	16	30' *	\$1,100,000	100	\$1,100,000	\$0	
						\$50,400,000		\$21,400,000	\$29,000,000	

Bold Italic = State Route Classification

* Typical Section = 30 ft width (2-12-ft lanes with 2-3ft shoulders)

Estimated cost excludes right-of-way, design, and utility relocation

\$105/lane/ft (with shoulders) = \$ 8.75/ s.f.

multi-lane = \$109/lane/ft = \$9.08/s.f.

**Table 9
LONG TERM ROADWAY IMPROVEMENTS AND COST ESTIMATES
Blount County, Tennessee**

ROADWAY CLASSIFICATION	SEG #	ROAD	LENGTH (MILE)	EXISTING ROADWAY WIDTH (FT)	PROPOSED IMPROVEMENT	COST ESTIMATE	COUNTY RESPONSIBILITY	ESTIMATED COSTS RESPONSIBILITY		PRIORITY YEAR
							%	BLOUNT COUNTY	OTHER	
<i>Minor Collector</i>	7	Carpenter's Grade Road	3.49	19	30' *	\$1,800,000	100	\$1,800,000	\$0	2010
<i>Minor Collector</i>	13	Unitia Road	0.49	19	30' *	\$200,000	100	\$200,000	\$0	2010
<i>Major Collector</i>	12	<i>Six Mile Road</i>	<i>10.54</i>	<i>18</i>	<i>30' *</i>	<i>\$5,800,000</i>	<i>20</i>	<i>\$1,160,000</i>	<i>\$4,640,000</i>	<i>2015</i>
<i>Minor Collector</i>	15	Jefferies Hollow Road	2.50	18	30' *	\$1,400,000	100	\$1,400,000	\$0	2015
<i>Minor Collector</i>	28	Old Chilhowee Road	5.99	17	30' *	\$3,600,000	100	\$3,600,000	\$0	2015
<i>Local Street</i>	3	East Miller Cove Road	4.00	16.5	30' *	\$2,500,000	100	\$2,500,000	\$0	2015
<i>Major Collector</i>	15	<i>William Blount Drive</i>	<i>2.17</i>	<i>24</i>	<i>Multi-lane**</i>	<i>\$800,000</i>	<i>20</i>	<i>\$160,000</i>	<i>\$640,000</i>	<i>2015</i>
<i>Minor Arterial</i>	12	Wildwood Road	0.12	20	30' *	\$100,000	100	\$100,000	\$0	2020
<i>Minor Arterial</i>	13	<i>William Blount Drive</i>	<i>0.75</i>	<i>24</i>	<i>Multi-lane**</i>	<i>\$300,000</i>	<i>20</i>	<i>\$60,000</i>	<i>\$240,000</i>	<i>2020</i>
<i>Major Collector</i>	13	<i>Old Knoxville Highway</i>	<i>1.75</i>	<i>24</i>	<i>Multi-lane**</i>	<i>\$3,400,000</i>	<i>20</i>	<i>\$680,000</i>	<i>\$2,720,000</i>	<i>2020</i>
<i>Major Collector</i>	14	<i>William Blount Drive</i>	<i>0.81</i>	<i>24</i>	<i>Multi-lane**</i>	<i>\$300,000</i>	<i>20</i>	<i>\$60,000</i>	<i>\$240,000</i>	<i>2020</i>
<i>Major Collector</i>	16	<i>Smoky Mountain Highway</i>	<i>1.54</i>	<i>24</i>	<i>Multi-lane**</i>	<i>\$3,000,000</i>	<i>20</i>	<i>\$600,000</i>	<i>\$2,400,000</i>	<i>2020</i>
<i>Minor Collector</i>	33	Old Walland Highway	1.81	18	30' *	\$1,000,000	100	\$1,000,000	\$0	2020
<i>Minor Collector</i>	21	Mint Road	1.63	19	30' *	\$800,000	100	\$800,000	\$0	2025
<i>Minor Collector</i>	29	Old Lowes Ferry Road	1.97	20	30' *	\$900,000	100	\$900,000	\$0	2025
<i>Minor Collector</i>	41	Walker Road	2.10	18	30' *	\$1,200,000	100	\$1,200,000	\$0	2025
<i>Minor Collector</i>	44	Hopewell Road	1.28	18	30' *	\$700,000	100	\$700,000	\$0	2025
<i>Minor Collector</i>	45	Clover Hill Road	0.59	18	30' *	\$300,000	100	\$300,000	\$0	2025
<i>Local Street</i>	1	Pea Ridge Road	2.66	18	30' *	\$1,500,000	100	\$1,500,000	\$0	2025
<i>Minor Arterial</i>	11	Wildwood Road	4.49	20	30' *	\$2,100,000	100	\$2,100,000	\$0	2030
<i>Major Collector</i>	6	<i>Miser Station Road</i>	<i>3.69</i>	<i>20</i>	<i>30' *</i>	<i>\$1,700,000</i>	<i>20</i>	<i>\$340,000</i>	<i>\$1,360,000</i>	<i>2030</i>
<i>Minor Collector</i>	20	Mint Road	3.24	19	30' *	\$1,600,000	100	\$1,600,000	\$0	2030
						\$35,000,000		\$22,800,000	\$12,200,000	

Bold Italic= State Route Classification

*Typical Section =30ft width (2-12ft lanes with 2-3ft shoulders)

\$105/lane/ft (with shoulders) = \$8.75/s.f.

**Multi-lane = \$109/lane/ft=\$9.08/s.f.

Estimated cost excludes right-of-way, design, and utility relocation

Roadways with a state route designation fall under the 80 percent state and 20 percent county funding formula. Therefore, Blount County would be able to obtain funding support to help with the cost of improvements.

The remaining county and local roads listed are the full responsibility of the county and would have to be funded with 100 percent county funds. The total estimated costs of the immediate roadway improvements are over \$51 million. Blount County would be responsible for approximately \$24.7 million or 20 percent of the estimated construction costs. Other available funding resources would have to supplement the balance of the estimated construction costs.

Figure 16 corresponds with Table 9 and reveals the recommended long-term roadway improvements that may occur over the next 20 years (2010-2030). The roads are listed based on the year in which the improvements are expected to be needed. Of the 18 roadways listed, four are state routes. Six Mile Road and Miser Station Road are state routes recommended to be widening to better two lane facilities, whereas Old Knoxville Highway (SR 33) and Smoky Mountain Highway (SR 337) are recommended to become multi-lane facilities.

In the long term, it is expected that many two-lane roadways would have to be upgraded to multi-lane

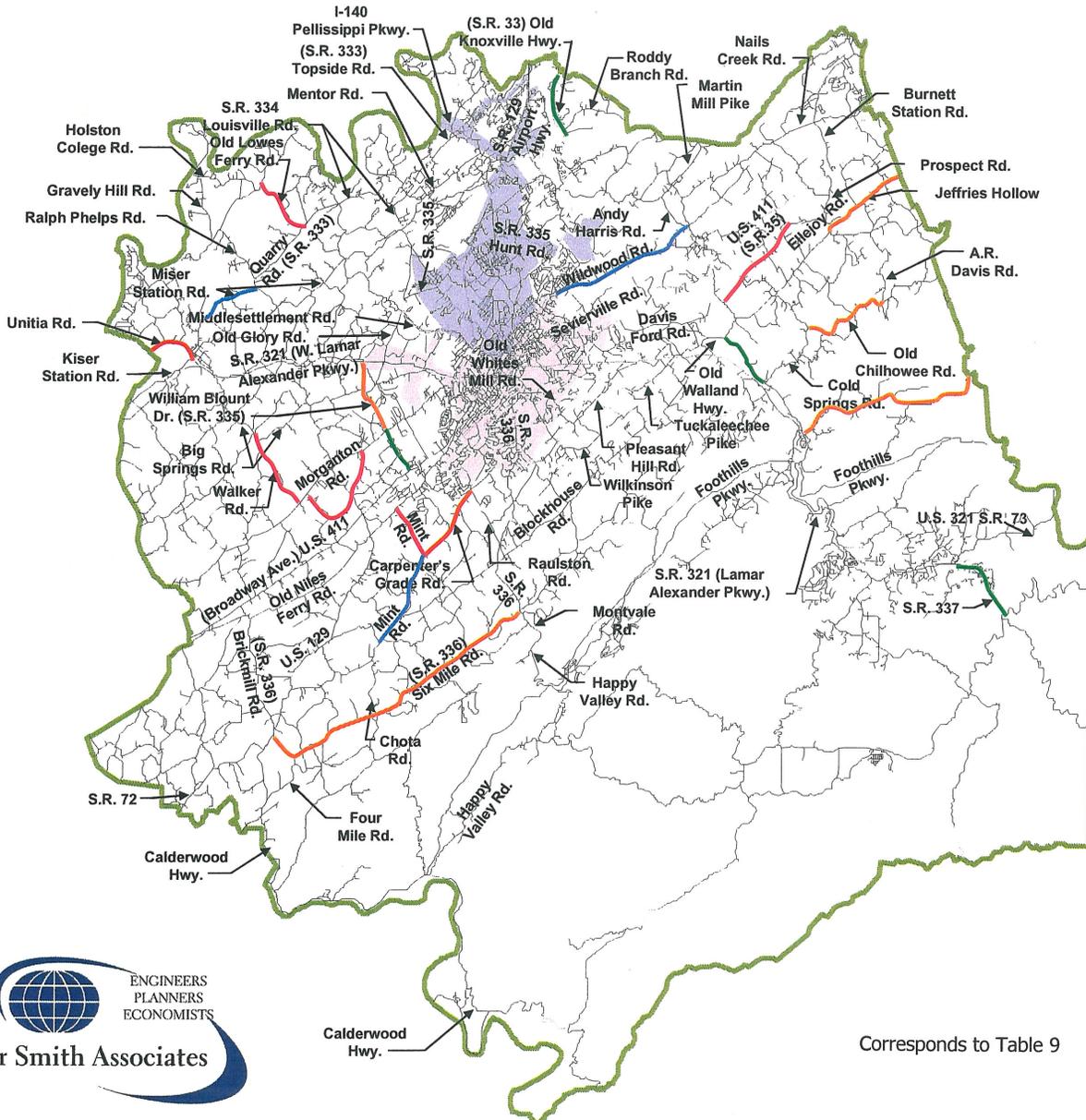
facilities in order to accommodate the increase in traffic volumes along some corridors.

Listed in Figure 16 are several minor arterial and major collector roadways that are likely to require multi-lane roadways once traffic volumes exceed approximately 10,000 vehicles per day. As previously mentioned, Old Knoxville Highway (SR 33) and Topside Road are current candidates for multi-lane roadways because they exceed the multi-lane volume criteria of 10,000.

Total construction costs for long-term improvements are estimated to be approximately \$33.6 million. The majority of the long-term improvements are along county roads, where Blount County would be responsible for 100 percent of the funding. Of the total construction costs, Blount County would be expected to fund approximately \$ 22.5 million or 20%, whereas the remaining portion would be the responsibility of others.

The immediate needs alone are extremely widespread covering over 40 percent of all roadway segments. The challenge to Blount County will be to raise adequate money to address some of these needs.

LONG TERM ROADWAY IMPROVEMENT RECOMMENDATIONS Blount County, Tennessee



PRIORITY	CONSTRUCTION COST(1)
2010	\$2,000,000
2015	\$13,300,000
2020	\$7,500,000
2025	\$5,400,000
2030	\$5,400,000
TOTAL	\$33,600,000

(1) Excludes ROW, Design, and Utility Relocation

CANDIDATES FOR MULTI-LANE ROADWAYS

ROAD CLASSIFICATION	ROAD NAME	YEAR
Minor Arterial	Sevierville Road	2020
Minor Arterial	William Blount Drive	2020
Minor Arterial	Morganton Road	2025
Major Collector	Louisville Road	2010
Major Collector	William Blount Drive	2015
Major Collector	Raulston Road	2020
Major Collector	Old Knoxville Highway	2020
Major Collector	William Blount Drive	2020
Major Collector	Smoky Mountain Highway	2020
Major Collector	Old Glory Road	2025
Major Collector	Louisville Road	2030



Corresponds to Table 9

Figure 16



APPENDIX



**Table A1
HISTORICAL TRAFFIC GROWTH PATTERNS FOR BLOUNT COUNTY
Blount County Roadway Needs Study
Blount County, Tennessee**

COUNT STATIONS	YEAR															TOTAL GROWTH					ANNUAL GROWTH									
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2010	2015	2020	2025	2030	2010	2015	2020	2025	2030	2010	2015	2020	2025	2030
T2	2,700	2,578	2,380	2,838	2,904	2,452	3,110	3,035	3,662	3,430	3,403	3,612	3,668	4,429	4,780	5,226	5,926	6,626	7,326	8,026	1.09	1.24	1.39	1.53	1.68	1.33	2.00	2.27	2.42	2.52
T3	638	551	653	528	784	713	603	691	805	820	751	826	744	849	750	941	1,022	1,103	1,184	1,265	1.25	1.36	1.47	1.58	1.69	3.63	3.02	2.76	2.63	2.54
T5	9,125	7,955	8,072	8,440	8,534	8,111	8,680	9,135	2,786	9,315	7,474	8,051	9,469	9,279	9,631	8,783	8,966	9,149	9,332	9,515	0.91	0.93	0.95	0.97	0.99	-1.26	-0.58	-0.29	-0.14	-0.04
T9	4,726	4,760	4,102	5,442	4,725	4,127	5,148	5,000	3,682	6,163	4,949	6,051	6,327	6,612	7,041	7,465	8,253	9,042	9,830	10,619	1.06	1.17	1.28	1.40	1.51	0.86	1.43	1.67	1.80	1.88
T10	1,191	985	1,036	1,100	1,235	1,319	1,635	1,565	805	1,707	1,752	2,758	2,047	2,213	2,137	2,924	3,410	3,895	4,380	4,865	1.37	1.60	1.82	2.05	2.28	5.26	4.96	4.84	4.77	4.73
T11	1,838	1,826	1,555	2,202	1,661	1,523	1,256	2,094	1,259	1,270	1,705	1,757	2,438	1,975	1,800	1,889	1,940	1,992	2,043	2,095	1.05	1.08	1.11	1.14	1.16	0.70	0.65	0.63	0.61	0.61
T16	N/A	N/A	N/A	N/A	N/A	N/A	9,315	8,419	10,039	8,896	8,590	9,423	8,995	9,834	11,046	11,157	11,957	12,758	13,559	14,359	1.01	1.08	1.15	1.23	1.30	0.14	0.69	0.91	1.03	1.11
T17	1,365	1,097	1,351	1,386	1,728	1,410	1,565	1,391	1,445	1,460	1,564	1,660	1,669	1,735	1,717	1,926	2,077	2,229	2,380	2,531	1.12	1.21	1.30	1.39	1.47	1.74	1.75	1.75	1.75	1.76
T18	3,896	3,883	4,147	3,925	4,160	4,141	4,097	4,410	4,280	4,993	6,858	6,759	6,915	5,778	5,952	7,992	9,080	10,168	11,256	12,344	1.34	1.53	1.71	1.89	2.07	4.90	4.38	4.17	4.05	3.98
T19	641	607	742	833	667	797	626	742	716	730	877	885	898	905	840	1,005	1,090	1,175	1,260	1,344	1.20	1.30	1.40	1.50	1.60	2.80	2.48	2.34	2.27	2.22
T20	684	719	673	640	999	880	1,019	1,132	1,150	1,355	1,323	1,316	1,422	1,275	1,505	1,952	2,266	2,580	2,894	3,208	1.30	1.51	1.71	1.92	2.13	4.24	4.21	4.20	4.20	4.19
T22	2,027	1,925	1,925	1,900	2,566	2,344	2,850	3,135	3,519	3,332	3,565	3,599	3,640	3,915	4,061	5,313	6,156	6,998	7,841	8,684	1.31	1.52	1.72	1.93	2.14	4.40	4.30	4.25	4.23	4.22
T23	1,112	1,023	1,239	1,136	1,102	1,095	1,145	1,614	1,279	1,290	1,730	1,665	1,626	1,831	1,771	2,173	2,457	2,742	3,026	3,310	1.23	1.39	1.55	1.71	1.87	3.24	3.23	3.22	3.22	3.22
T24	N/A	N/A	N/A	N/A	N/A	N/A	2,791	3,591	3,500	3,578	3,979	4,479	4,010	4,255	4,402	5,742	6,605	7,468	8,331	9,194	1.30	1.50	1.70	1.89	2.09	4.35	4.17	4.10	4.06	4.03
T25	N/A	N/A	N/A	N/A	N/A	N/A	3,524	3,611	3,623	3,672	3,366	3,089	3,402	3,752	3,521	3,394	3,343	3,292	3,241	3,189	0.96	0.95	0.93	0.92	0.91	-0.51	-0.42	-0.38	-0.36	-0.35
T28	3,238	2,749	3,207	4,115	5,028	3,442	3,203	3,410	3,704	3,570	3,888	3,739	3,793	3,724	4,180	4,226	4,426	4,627	4,827	5,027	1.01	1.06	1.11	1.15	1.20	0.16	0.49	0.63	0.70	0.75
T30	471	486	568	550	567	477	504	446	467	699	609	535	578	600	618	657	697	737	777	817	1.06	1.13	1.19	1.26	1.32	0.90	1.06	1.13	1.17	1.19
T31	1,200	1,184	1,304	1,431	1,499	1,644	1,584	1,870	1,737	1,815	1,965	1,994	1,971	2,097	2,224	2,708	3,067	3,067	3,786	4,145	1.22	1.38	1.38	1.70	1.86	3.11	3.16	2.23	3.19	3.20
T32	N/A	N/A	N/A	N/A	N/A	N/A	434	500	607	534	556	575	574	605	623	748	835	923	1,010	1,097	1.20	1.34	1.48	1.62	1.76	2.87	2.84	2.83	2.82	2.82
T35	N/A	N/A	N/A	N/A	N/A	N/A	655	1,254	1,201	1,210	1,150	1,163	1,115	1,214	1,223	1,486	1,647	1,808	1,969	2,130	1.22	1.35	1.48	1.61	1.74	3.07	2.89	2.81	2.77	2.75
T36	N/A	N/A	N/A	N/A	N/A	N/A	1,231	1,200	1,334	1,513	1,480	1,717	1,685	1,655	1,716	2,275	2,626	2,977	3,328	3,679	1.33	1.53	1.74	1.94	2.14	4.66	4.42	4.32	4.27	4.24
T38	N/A	N/A	N/A	N/A	N/A	N/A	3,200	2,524	2,728	3,706	2,869	3,278	3,370	3,590	3,794	4,408	4,943	5,479	6,015	6,551	1.16	1.30	1.44	1.59	1.73	2.31	2.52	2.61	2.66	2.69
T44	N/A	N/A	N/A	N/A	N/A	N/A	2,318	3,685	3,700	2,622	2,905	3,032	2,769	3,017	3,143	2,993	2,980	2,967	2,954	2,941	0.95	0.95	0.94	0.94	0.94	-0.68	-0.43	-0.33	-0.27	-0.24
T46	624	604	662	687	599	512	530	950	980	1,147	1,160	1,097	1,087	1,165	1,177	1,586	1,843	2,100	2,357	2,615	1.35	1.57	1.78	2.00	2.22	4.96	4.71	4.61	4.56	4.52
T47	910	727	720	688	845	687	763	806	739	750	933	905	881	893	888	953	1,004	1,056	1,056	1,159	1.07	1.13	1.19	1.19	1.30	1.05	1.09	1.11	0.86	1.13
T51	N/A	N/A	N/A	N/A	N/A	N/A	645	699	662	670	814	790	914	855	883	1,145	1,315	1,486	1,656	1,826	1.30	1.49	1.68	1.88	2.07	4.24	4.08	4.01	3.98	3.96
T54	N/A	N/A	N/A	N/A	N/A	N/A	3,956	4,321	4,398	4,631	4,259	6,751	4,387	4,675	5,173	6,200	6,869	7,538	8,207	8,876	1.20	1.33	1.46	1.59	1.72	2.84	2.73	2.69	2.67	2.65
T58	1,305	1,505	1,678	1,848	1,734	2,134	2,369	2,250	1,840	2,076	2,028	2,691	2,405	2,477	2,329	3,057	3,418	3,780	4,141	4,503	1.31	1.47	1.62	1.78	1.93	4.46	3.90	3.66	3.54	3.46
T59	3,855	3,829	4,286	5,168	5,639	6,045	5,704	6,597	5,854	6,827	7,034	6,865	7,658	6,393	7,002	9,265	10,461	11,656	12,852	14,048	1.32	1.49	1.66	1.84	2.01	4.62	4.12	3.91	3.80	3.73
T60	3,761	3,422	3,451	3,474	3,617	2,880	3,114	5,157	3,330	3,994	4,007	3,454	3,443	4,005	4,068	4,136	4,299	4,462	4,625	4,788	1.02	1.06	1.10	1.14	1.18	0.24	0.47	0.57	0.62	0.66
T61	1,402	1,177	1,429	1,443	1,400	1,435	1,489	1,941	1,747	1,760	1,370	1,728	1,445	1,746	1,718	1,932	2,069	2,206	2,342	2,479	1.12	1.20	1.28	1.36	1.44	1.78	1.70	1.67	1.65	1.64
T62	10,935	8,976	8,912	11,671	10,489	10,100	10,801	10,500	10,600	12,804	12,851	11,335	11,832	14,752	16,758	16,603	18,406	20,209	22,012	23,815	0.99	1.10	1.21	1.31	1.42	-0.13	0.82	1.21	1.42	1.56
T63	N/A	N/A	N/A	N/A	N/A	N/A	1,072	1,080	905	920	1,100	1,007	1,227	1,081	1,419	1,479	1,656	1,833	2,010	2,186	1.04	1.17	1.29	1.42	1.54	0.61	1.39	1.72	1.89	2.00
T64	14,040	11,621	11,066	13,857	12,868	13,751	14,050	14,000	14,100	14,100	14,790	18,724	18,352	18,550	21,355	22,774	25,546	28,317	31,088	33,860	1.07	1.20	1.33	1.46	1.59	0.95	1.64	1.92	2.07	2.17
T65	4,675	3,832	4,000	4,464	5,413	4,840	4,853	3,747	3,977	4,151	5,145	5,201	5,768	5,547	5,782	6,098	6,576	7,054	7,532	8,010	1.05	1.14	1.22	1.30	1.39	0.78	1.14	1.29	1.38	1.43
T66	1,858	1,907	1,850	2,027	2,225	2,131	2,254	2,305	1,919	2,305	2,396	2,521	2,711	2,004	2,089	2,617	2,778	2,939	3,100	3,260	1.25	1.33	1.41	1.48	1.56	3.61	2.75	2.39	2.20	2.08
T67	1,024	1,027	1,000	1,313	1,450	1,322	1,175	1,700	1,469	1,480	1,528	1,616	1,690	1,806	1,676	2,156	2,419	2,682	2,945	3,209	1.29	1.44	1.60	1.76	1.91	4.09	3.69	3.53	3.44	3.39
T68	1,290	1,307	1,311	1,303	1,439	1,883	1,800	1,487	1,500	2,135	1,830	2,198	2,319	2,156	2,326	2,869	3,268	3,667	4,066	4,465	1.23	1.41	1.58	1.75	1.92	3.34	3.38	3.39	3.40	3.41
T71	1,482	1,217	1,106	931	1,198	1,008	1,049	991	940	1,229	1,013	1,085	1,207	1,233	1,570	1,231	1,260	1,289	1,317	1,346	0.78	0.80	0.82	0.84	0.86	-3.08	-1.65	-1.05	-0.73	-0.53
T72	950	961	1,025	1,074	1,000	481	1,076	1,159	1,068	1,180	1,230	1,788	1,284	1,034	1,186	1,516	1,664	1,813	1,962	2,110	1.28	1.40	1.53	1.65	1.78	3.97	3.36	3.11	2.97	2.89
T74	67	45	50	151	150	303	315	309	315	372	292	261	325	300	340	531	635	739	842	946	1.56	1.87	2.17	2.48	2.78	8.01	7.22	6.89	6.72	6.61
T75	790	71																												

**Table A1
HISTORICAL TRAFFIC GROWTH PATTERNS FOR BLOUNT COUNTY
Blount County Roadway Needs Study
Blount County, Tennessee**

COUNT STATIONS	YEAR															TOTAL GROWTH					ANNUAL GROWTH									
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2010	2015	2020	2025	2030	2010	2015	2020	2025	2030	2010	2015	2020	2025	2030
T78	848	883	905	1,027	943	750	1,070	1,213	1,220	1,132	1,230	1,476	1,474	1,260	1,524	1,801	2,040	2,280	2,519	2,759	1.18	1.34	1.50	1.65	1.81	2.59	2.82	2.92	2.97	3.00
T79	272	262	318	320	330	466	499	570	528	540	549	592	655	649	669	917	1,072	1,228	1,383	1,539	1.37	1.60	1.84	2.07	2.30	5.29	5.02	4.91	4.85	4.81
T81	3,127	3,731	3,015	3,040	4,877	5,796	7,812	7,800	6,927	7,682	8,019	7,140	7,119	8,543	8,936	12,176	14,297	16,418	18,539	20,659	1.36	1.60	1.84	2.07	2.31	5.18	5.00	4.93	4.88	4.86
T85	442	1,174	404	442	440	0	3,866	4,543	3,572	3,580	2,237	2,373	2,057	3,479	4,130	5,577	6,790	8,002	9,214	10,427	1.35	1.64	1.94	2.23	2.52	5.01	5.37	5.51	5.60	5.65
T86	N/A	N/A	N/A	N/A	N/A	N/A	5,212	5,109	5,200	5,220	5,787	5,851	5,848	6,613	7,029	8,276	9,418	10,561	11,703	12,845	1.18	1.34	1.50	1.66	1.83	2.53	2.83	2.96	3.02	3.06
T87	179	182	185	213	203	187	179	174	249	260	209	228	240	208	314	298	327	357	387	417	0.95	1.04	1.14	1.23	1.33	-0.75	0.35	0.81	1.06	1.21
T110	265	237	368	726	330	289	405	346	400	291	346	358	342	362	366	357	355	354	352	350	0.98	0.97	0.97	0.96	0.96	-0.34	-0.24	-0.20	-0.17	-0.16
T117	542	532	545	485	554	563	500	493	505	520	590	627	649	667	621	683	728	772	816	860	1.10	1.17	1.24	1.31	1.39	1.44	1.43	1.43	1.43	1.43
T124	3,981	3,808	4,326	3,666	3,919	4,865	4,878	5,239	5,240	5,339	5,885	5,721	5,912	6,523	6,521	7,926	8,952	9,977	11,003	12,028	1.22	1.37	1.53	1.69	1.84	3.08	3.11	3.12	3.12	3.13
T126	10,597	10,294	11,725	12,956	13,005	11,140	11,771	13,313	13,125	13,828	11,271	13,240	12,531	13,268	13,625	14,666	15,483	16,299	17,116	17,933	1.08	1.14	1.20	1.26	1.32	1.09	1.14	1.15	1.16	1.17
T127	2,074	2,084	2,214	2,247	2,934	2,560	1,964	2,449	1,979	1,990	2,679	2,504	2,780	2,667	2,622	2,848	3,014	3,180	3,347	3,513	1.09	1.15	1.21	1.28	1.34	1.23	1.25	1.25	1.26	1.26
T128	244	216	121	134	141	92	130	171	180	155	181	164	168	147	145	136	128	120	112	104	0.94	0.88	0.83	0.77	0.72	-0.84	-0.96	-1.01	-1.03	-1.05
T137	N/A	N/A	N/A	N/A	N/A	N/A	384	460	441	450	451	455	452	455	456	500	525	550	575	600	1.10	1.15	1.21	1.26	1.32	1.37	1.26	1.21	1.19	1.17
T138	1,863	1,680	1,158	799	1,145	1,092	1,341	1,189	1,543	1,452	1,629	1,776	1,770	1,899	1,959	2,053	2,255	2,457	2,660	2,862	1.05	1.15	1.25	1.36	1.46	0.68	1.26	1.50	1.63	1.71
T141	N/A	N/A	N/A	N/A	N/A	N/A	629	522	567	530	612	625	529	699	643	706	757	807	858	908	1.10	1.18	1.26	1.33	1.41	1.40	1.47	1.50	1.52	1.53
T145	3,328	3,290	3,243	3,662	4,003	5,073	3,499	4,132	3,600	5,361	5,962	5,538	6,915	6,054	6,539	8,254	9,530	10,807	12,083	13,360	1.26	1.46	1.65	1.85	2.04	3.75	3.81	3.84	3.85	3.86
T146	N/A	N/A	N/A	N/A	N/A	N/A	2,144	2,052	2,077	2,277	2,364	2,490	2,447	2,567	2,771	3,272	3,689	4,106	4,524	4,941	1.18	1.33	1.48	1.63	1.78	2.58	2.76	2.83	2.87	2.90
T150	5,988	5,920	5,955	6,421	6,777	6,659	7,298	7,786	7,284	8,527	8,292	8,736	9,301	9,882	10,385	12,121	13,707	15,293	16,879	18,465	1.17	1.32	1.47	1.63	1.78	2.39	2.67	2.78	2.84	2.88
T155	196	220	203	214	255	338	303	234	276	290	209	306	306	325	248	342	371	400	429	458	1.38	1.50	1.61	1.73	1.85	5.43	4.14	3.61	3.32	3.13
T162	862	844	900	1,003	1,040	1,167	1,201	1,355	1,138	1,196	1,071	1,277	1,235	1,251	1,312	1,546	1,697	1,848	1,999	2,150	1.18	1.29	1.41	1.52	1.64	2.55	2.44	2.40	2.38	2.36
T173	N/A	N/A	N/A	N/A	N/A	N/A	6,027	5,666	5,486	5,871	6,086	6,260	6,459	6,931	7,457	8,422	9,409	10,397	11,384	12,372	1.13	1.26	1.39	1.53	1.66	1.85	2.18	2.32	2.39	2.44
T182	N/A	N/A	N/A	N/A	N/A	N/A	7,188	7,586	7,516	7,976	8,826	8,367	8,870	9,232	9,847	11,802	13,358	14,914	16,470	18,026	1.20	1.36	1.51	1.67	1.83	2.84	2.97	3.03	3.06	3.08
M3	N/A	N/A	N/A	N/A	N/A	N/A	2,888	2,872	3,550	3,035	3,383	3,080	3,110	3,570	3,210	3,656	3,868	4,080	4,292	4,505	1.14	1.20	1.27	1.34	1.40	1.98	1.71	1.59	1.53	1.49
M17	N/A	N/A	N/A	N/A	N/A	N/A	4,114	4,988	4,596	4,553	5,136	4,900	4,460	5,440	5,390	6,040	6,585	7,129	7,674	8,218	1.12	1.22	1.32	1.42	1.52	1.72	1.85	1.90	1.93	1.94
M18	N/A	N/A	N/A	N/A	N/A	N/A	5,650	6,700	6,748	5,829	6,513	6,700	6,420	6,590	6,220	6,771	6,952	7,132	7,313	7,493	1.09	1.12	1.15	1.18	1.20	1.27	0.98	0.86	0.80	0.76
M21	N/A	N/A	N/A	N/A	N/A	N/A	1,024	1,496	1,254	957	749	890	720	790	740	153	-213	-578	-944	-1,310	0.21	-0.29	-0.78	-1.28	-1.77	-11.33	-10.73	-10.48	-10.34	-10.26
M22	N/A	N/A	N/A	N/A	N/A	N/A	1,750	1,879	1,914	2,008	1,940	1,750	2,090	2,900	2,140	2,906	3,299	3,692	4,085	4,478	1.36	1.54	1.73	1.91	2.09	5.11	4.51	4.27	4.13	4.05
M23	N/A	N/A	N/A	N/A	N/A	N/A	2,492	1,315	1,340	1,310	1,275	1,310	2,690	3,150	2,970	3,838	4,681	5,525	6,368	7,211	1.29	1.58	1.86	2.14	2.43	4.18	4.80	5.06	5.20	5.29
M24	N/A	N/A	N/A	N/A	N/A	N/A	849	3,977	4,003	4,332	4,453	4,650	4,360	4,700	4,700	7,414	8,964	10,514	12,065	13,615	1.58	1.91	2.24	2.57	2.90	8.25	7.56	7.28	7.12	7.03
M25	N/A	N/A	N/A	N/A	N/A	N/A	687	945	737	662	751	730	670	720	670	582	514	447	380	312	0.87	0.77	0.67	0.57	0.47	-1.88	-1.93	-1.96	-1.97	-1.98
M27	N/A	N/A	N/A	N/A	N/A	N/A	525	4,551	4,772	4,383	5,316	5,160	4,420	4,610	4,520	7,226	8,579	9,931	11,284	12,636	1.60	1.90	2.20	2.50	2.80	8.55	7.48	7.04	6.80	6.65

T2 Count Station Used in Study 206,706 226,353 213,349 232,589 235,762 248,016 249,860 262,895 275,948 326,144 365,731 405,318 444,905 484,492 1.18 1.33 1.47 1.61 1.76 2.60 2.71 2.76 2.78 2.80
T162 Count Station Used Omitted from Study

ANNUAL GROWTH- LAST 9 YEARS → 3.722

Table A2
PROGRAMMED IMPROVEMENTS FOR BLOUNT COUNTY
BLOUNT COUNTY ROADWAY NEEDS STUDY
Blount County, Tennessee

	Project Location	Project Description	Work Description	Proposed Year
1	Airport Access Road to I-140	Airport Terminals to I-140	New on and off access ramps	2020
2	Alcoa Highway	Hunt Road to Singleton Station	Reconstruct to 6-Lanes	2010
3	Big Springs Industrial Park	US 321 to Morganton Rd	New 2- lane road	2020
4	Alcoa Highway	Maloney Road to Woodson Dr.	Widen to a 6-lane section	2010
5	Alcoa Highway	Singleton Station Rd to Knox County Line	Widen to a 6-lane section	2010
6	Alcoa Highway	Replace Bridge at County Line	New Bridge	2010
7	Andy Harris Road	Martin Mill Pike to Wildwood Road	Improve and widen 2-lane section	2020
8	Burnett Station Road	US 411 to Chapman Highway	Improve and widen 2-lane section	2020
9	Carpenter's Grade Road	Maryville Limits to Mint Road	Improve and widen 2-lane section	2010
10	Ellejoy Road	River Ford Road to Jefferies Hollow Road	Improve and widen 2-lane section	2010
11	Hinkle Road	US 411 to Burnett Station Road	Improve and widen 2-lane section	2020
12	Jefferies Hollow Road	Ellejoy Road to Blount County Line	Improve and widen 2-lane section	2020
13	Martin Mill Pike	Old Knoxville Highway to County Line	Improve and widen 2-lane section	2020
14	Mentor Road	Louisville Road to Wrights Ferry Road	Improve and widen 2-lane section	2010
15	Montvale Road	Maryville Limits to Blockhouse Road	Improve and widen 2-lane section	2010
16	Morganton Road	Foothills Mall Drive to William Blount Dr	Improve and widen 2-lane section	2010
17	Nails Creek Road	Wildwood Road to Burnett Station Road	Improve and widen 2-lane section	2020
18	Old Knoxville Highway	Hunt Road to Knox County Line	Widen to 4-lane section	2020
19	Old Knoxville Highway	Wildwood Road to McArthur Road	Widen to 4-lane section	2010
20	Old Niles Ferry	Maryville Limits to US 129	Improve and widen 2-lane section	2010
21	Pea Ridge Road	River Ford Road to Patterson Road	Improve and widen 2-lane section	2020
22	Pellissippi Parkway	Cusick Rd to US 321	Construct new 4-lane	2010
23	Proffitt Springs Road	Louisville Road to Hunt Road	Improve and widen 2-lane section	2010
24	Southern By-Pass	US 411 to Topside Road (9 miles)	4-lane divided	2025
25	Southern By-Pass	US 411 to US 321 loop south of Maryville (13 miles)	4-lane divided	2020
26	SR 73	Wears Valley Road to GSMNP Boundary	Widen to 3-lanes	2010
27	US 321 through Townsend	Kinzel Springs to Wears Valley Road	Widen to 4-5 lanes	2010
28	US 321 Wears Valley Road	SR 73 to County Line	Improve and widen 2-lane section	2020
29	US 411 North	Maryville City Limits to Blount County Line	Improve and widen 2-lane section	2010
30	Wildwood Road	Maryville City Limits to Porter Turnoff	Improve and widen 2-lane section	2010
31	Wildwood Road	Porter Turnoff to US 411	Improve and widen 2-lane section	2020
32	Wilkerson Pike	Maryville City Limits to Chilhowee View	Improve and widen 2-lane section	2010
33	Pellissippi Parkway	Cusick Road to SR US 321	Construct new 4-lane	2010

PROPOSED HIGHWAY PROJECTS: 2002-2025
TPO Long Range Transportation Plan Update (2002)
Blount County, Tennessee

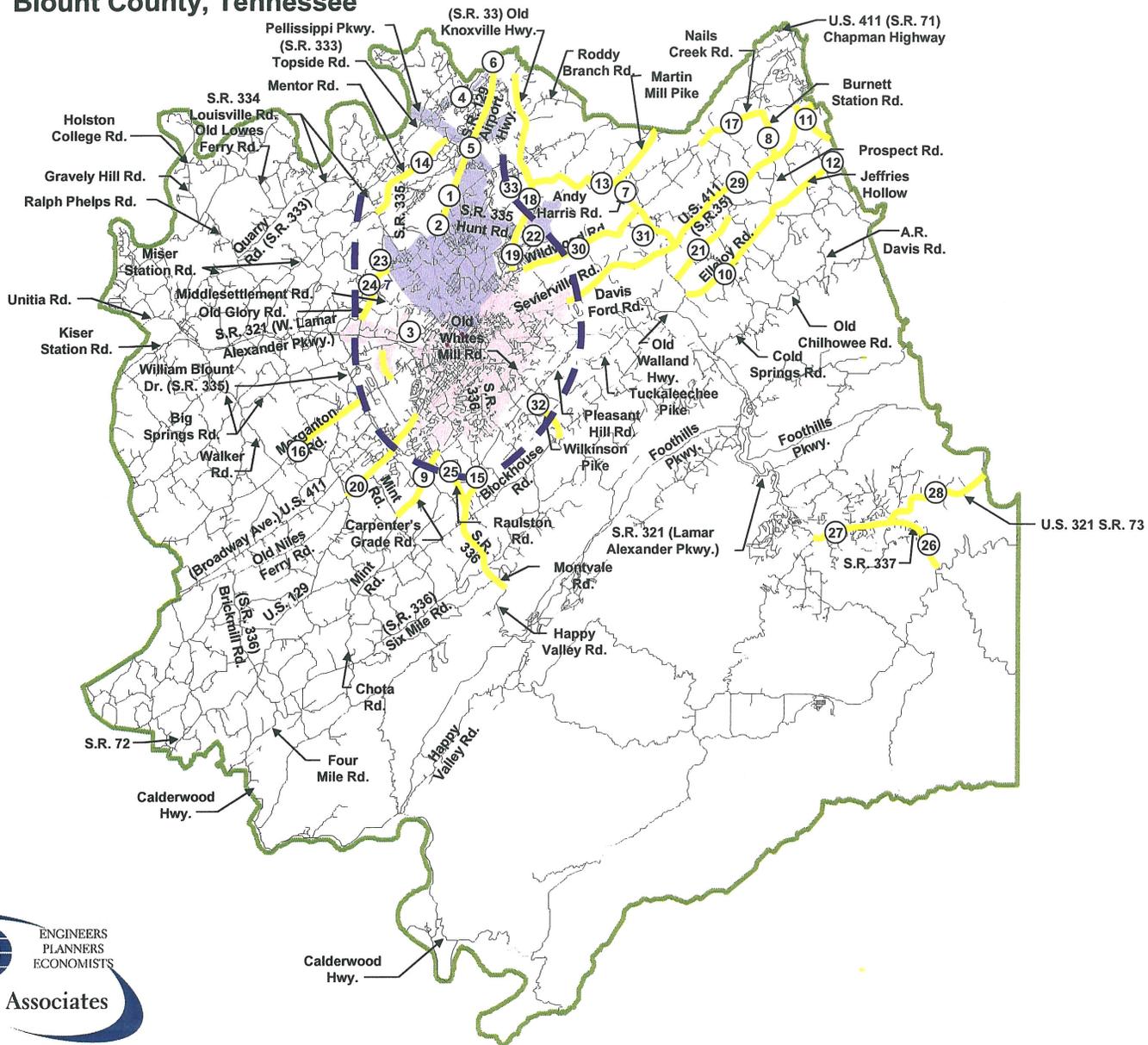


Figure A1