

Transforming Dixie Highway
 Travel Time, Vehicle Miles Traveled, Vehicle Hours Traveled Analysis
 6/5/14

	Start	End	Length (mi)	ADT	ADT Year	Growth	2018	2048	2014 Volume by Time Period					2014 Vehicular Miles Traveled					Avg 2014 Two-Way Travel Time (min)					Avg 2014 Two-Way Speed (mph)					Basic BPR Equation Inputs					2014 BPR Calibration Speeds								
							Opening	Opening	AM	MD	PM	Evening	OffPeak	AM	MD	PM	Evening	OffPeak	AM	MD	PM	Evening	OffPeak	AM	MD	PM	Evening	OffPeak	FFS	a	b	Lanes	Cap/Ln	Capacity	AM	MD	PM	Evening	OffPeak			
							Year	Year+30																																		
	Broadway	Wathen Ln	2.4	11,000	2014	0.59%	11,261	13,430	1,760	2,310	3,630	1,980	1,320	4,224	5,544	8,712	4,752	3,168	7.5	8.0	8.0	7.5	6.0	19	18	18	19	24	24	0.40	3.00	2	500	1000	20	20	18	19	24			
	Wathen Ln	Garrs Ln	2.1	19,000	2014	0.81%	19,623	24,999	3,040	3,990	6,270	3,420	2,280	6,384	8,379	13,167	7,182	4,788	5.0	6.0	6.5	6.0	4.5	25	21	19	21	28	28	0.80	3.00	4	500	2000	22	23	19	21	28			
	Garrs Ln	Heaton Rd	0.7	46,500	2014	0.32%	47,090	51,765	7,440	9,765	15,345	8,370	5,580	5,208	6,836	10,742	5,859	3,906	1.8	2.0	2.0	1.7	1.5	23	21	21	25	28	28	0.60	3.00	4	800	3200	17	17	12	14	28			
	Heaton Rd	Greenwood Rd	2.9	52,500	2014	0.44%	53,435	60,997	8,400	11,025	17,325	9,450	6,300	24,360	31,973	50,243	27,405	18,270	6.5	7.0	9.0	7.0	6.0	27	25	19	25	29	29	0.40	3.00	4	1200	4800	24	25	21	23	29			
	Greenwood Rd	Valley Station Rd	2.9	37,500	2014	0.42%	38,133	43,233	6,000	7,875	12,375	6,750	4,500	17,400	22,838	35,888	19,575	13,050	6.5	7.0	7.5	6.8	5.8	27	25	23	26	30	30	0.40	3.00	4	900	3600	26	26	23	24	30			
	Valley Station Rd	Moorman Rd	1.7	24,000	2014	0.91%	24,883	32,623	3,840	5,040	7,920	4,320	2,880	6,528	8,568	13,464	7,344	4,896	3.5	4.0	4.0	4.5	3.0	29	26	26	23	34	34	0.80	3.00	4	700	2800	29	29	25	27	34			
			12.7																																							
% Red	Start	End	Length (mi)	ADT	ADT Year	Growth	2018	2048	2018 Volume by Time Period					2018 Vehicular Miles Traveled					2018 No-Build Travel Time					2018 No-Build Vehicle Hours Traveled					2018 Build Travel Time REDUCED					2018 Vehicle Hours Traveled REDUCED w/ Build								
	Broadway	Wathen Ln	2.4	11,000	2014	0.59%	11,261	13,430	1,802	2,365	3,716	2,027	1,351	4,324	5,676	8,919	4,865	3,243	7.2	7.7	7.4	7.1	6.0	216	303	461	239	135	1353	338,297	0.4	0.4	0.4	0.4	0.3	11	15	23	12	7	68	16,915
	Wathen Ln	Garrs Ln	2.1	19,000	2014	0.81%	19,623	24,999	3,140	4,121	6,476	3,532	2,355	6,593	8,654	13,599	7,418	4,945	4.8	5.7	6.0	5.6	4.5	249	393	647	331	176	1797	449,147	0.2	0.3	0.3	0.3	0.2	12	20	32	17	9	90	22,457
	Garrs Ln	Heaton Rd	0.7	46,500	2014	0.32%	47,090	51,765	7,534	9,889	15,540	8,476	5,651	5,274	6,922	10,878	5,933	3,956	1.6	1.8	1.7	1.5	1.5	200	293	435	207	141	1276	319,084	0.1	0.1	0.1	0.1	0.1	10	15	22	10	7	64	15,954
	Heaton Rd	Greenwood Rd	2.9	52,500	2014	0.44%	53,435	60,997	8,550	11,221	17,633	9,618	6,412	24,794	32,542	51,137	27,893	18,595	6.2	6.7	8.3	6.6	6.0	886	1254	2453	1057	641	6291	1,572,685	0.3	0.3	0.4	0.3	0.3	44	63	123	53	32	315	78,634
	Greenwood Rd	Valley Station Rd	2.9	37,500	2014	0.42%	38,133	43,233	6,101	8,008	12,584	6,864	4,576	17,694	23,223	36,493	19,905	13,270	6.2	6.7	7.0	6.4	5.8	635	899	1470	732	442	4179	1,044,689	0.3	0.3	0.4	0.3	0.3	32	45	74	37	22	209	52,234
	Valley Station Rd	Moorman Rd	1.7	24,000	2014	0.91%	24,883	32,623	3,981	5,225	8,211	4,479	2,986	6,768	8,883	13,959	7,614	5,076	3.4	3.9	3.8	4.3	3.0	224	336	515	320	149	1544	385,947	0.2	0.2	0.2	0.2	0.1	11	17	26	16	7	77	19,297
			12.7																																							