

# Capacity Analysis for Planning of Junctions

## Input Worksheet

Project Name:	Research Forest and Lake Woodlands	<b>Critical Lane Volume Sum</b>			
Project Number:	4609.001	<b>Acceptable Configurations</b>			
Location:	2030 AM Reasearch Forest Drive and Grogans Mill Road	< 1200	1200 - 1399	1400 - 1599	≥ 1600
Date:	April 16, 2019	21	3	0	8

## Results for Intersections

#	TYPE OF INTERSECTION	Sheet	Zone 1 (North)		Zone 2 (South)		Zone 3 (East)		Zone 4 (West)		Zone 5 (Center)		Overall v/c Ratio	Ranking
			CLV	V/C	CLV	V/C	CLV	V/C	CLV	V/C	CLV	V/C		
1	Conventional	<a href="#">FULL</a>	/	/	/	/	/	/	/	/	1279	0.80	0.80	13
2	Conventional Shared RT LN	<a href="#">CSRL</a>	/	/	/	/	/	/	/	/	1321	0.83	0.83	14
3.1	Quadrant Roadway	<a href="#">S-W</a>	/	/	906	0.57	/	/	873	0.55	1010	0.63	0.63	3
3.2		<a href="#">N-E</a>	980	0.61	/	/	1033	0.65	/	/	1041	0.65	0.65	4
3.3		<a href="#">S-E</a>	/	/	909	0.57	909	0.57	/	/	1117	0.70	0.70	10
3.4		<a href="#">N-W</a>	842	0.53	/	/	/	/	823	0.51	1126	0.70	0.70	11
4.1	Partial Displaced Left Turn	<a href="#">N-S</a>	469	0.29	830	0.52	/	/	/	/	1129	0.71	0.71	12
4.2		<a href="#">E-W</a>	/	/	/	/	753	0.47	828	0.52	1050	0.66	0.66	5
5	Displaced Left Turn	<a href="#">FULL</a>	270	0.17	628	0.39	974	0.61	828	0.52	819	0.51	0.61	2
6.1	Restricted Crossing U-Turn	<a href="#">N-S</a>	1543	0.96	1414	0.88	2941	1.84	2009	1.26	/	/	1.84	15
6.2		<a href="#">E-W</a>	951	0.59	814	0.51	1067	0.67	1005	0.63	/	/	0.67	6
7.1	Median U-Turn	<a href="#">N-S</a>	709	0.44	663	0.41	/	/	/	/	823	0.51	0.51	1
7.2		<a href="#">E-W</a>	/	/	/	/	1059	0.66	1100	0.69	951	0.59	0.69	9
8.1	Partial Median U-Turn	<a href="#">N-S</a>	446	0.28	421	0.26	/	/	/	/	1085	0.68	0.68	7
8.2		<a href="#">E-W</a>	/	/	/	/	890	0.56	1059	0.66	1085	0.68	0.68	7

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### Results for Roundabouts

#	TYPE OF ROUNDABOUT	Zone 1 (North)			Zone 3 (East)			Zone 2 (South)			Zone 4 (West)			Overall v/c Ratio	Ranking
		Lane 1	Lane 2	Lane 3	Lane 1	Lane 2	Lane 3	Lane 1	Lane 2	Lane 3	Lane 1	Lane 2	Lane 3		
9.1	<a href="#">50 ICD</a>	-0.42			9.59			-0.83			7.06			9.59	7
9.2	<a href="#">75 ICD</a>	-0.48			7.88			-1.02			5.84			7.88	6
9.3	<a href="#">1 X 1</a>	4.87			4.50			3.58			3.99			4.87	5
9.4	<a href="#">1 X 2</a>	2.45			1.80	2.69		2.09			2.11	1.88		2.69	3
9.5	<a href="#">2 X 1</a>	1.76	3.11		3.58			1.97	1.60		3.26			3.58	4
9.6	<a href="#">2 X 2</a>	0.99	1.56		1.78	1.54		1.26	0.94		1.49	2.15		2.15	2
9.7	<a href="#">3 X 3</a>	0.32	1.39	2.09	0.19	1.50	2.07	0.72	1.23	1.25	0.37	1.62	1.52	2.09	1

### Results for Interchanges

#	TYPE OF INTERCHANGE	Sheet	Zone 1 (Rt Mrg)		Zone 2 (Lt Mrg)		Zone 3 (Ctr. 1)		Zone 4 (Ctr. 2)		Zone 5 (Lt Mrg)		Zone 6 (Rt Mrg)		Overall v/c Ratio	Ranking
			CLV	V/C	CLV	V/C	CLV	V/C	CLV	V/C	CLV	V/C	CLV	V/C		
10.1	Diamond	<a href="#">N-S</a>					982	0.61	962	0.60					0.61	5
10.2		<a href="#">E-W</a>					878	0.55	916	0.57					0.57	3
11.1	Partial Cloverleaf	<a href="#">N-S</a>					452	0.28	308	0.19					0.28	1
11.2		<a href="#">E-W</a>					1145	0.61	878	0.55					0.72	9
13.1	Displaced Left Turn	<a href="#">N-S</a>	698	0.44			818	0.51	537	0.34			1044	0.65	0.65	6
13.2		<a href="#">E-W</a>	856	0.54			695	0.43	677	0.42			974	0.61	0.61	4
14.1	Double Crossover Diamond	<a href="#">N-S</a>	499	0.31	610	0.38	367	0.23	582	0.36	441	0.28	694	0.43	0.43	2
14.2		<a href="#">E-W</a>	883	0.55	1199	0.75	645	0.40	817	0.51	1207	0.75	768	0.48	0.75	10
15.1	Single Point	<a href="#">N-S</a>	733	0.46			994	0.62					1079	0.67	0.67	7
15.2		<a href="#">E-W</a>	883	0.55			1119	0.70					768	0.48	0.70	8