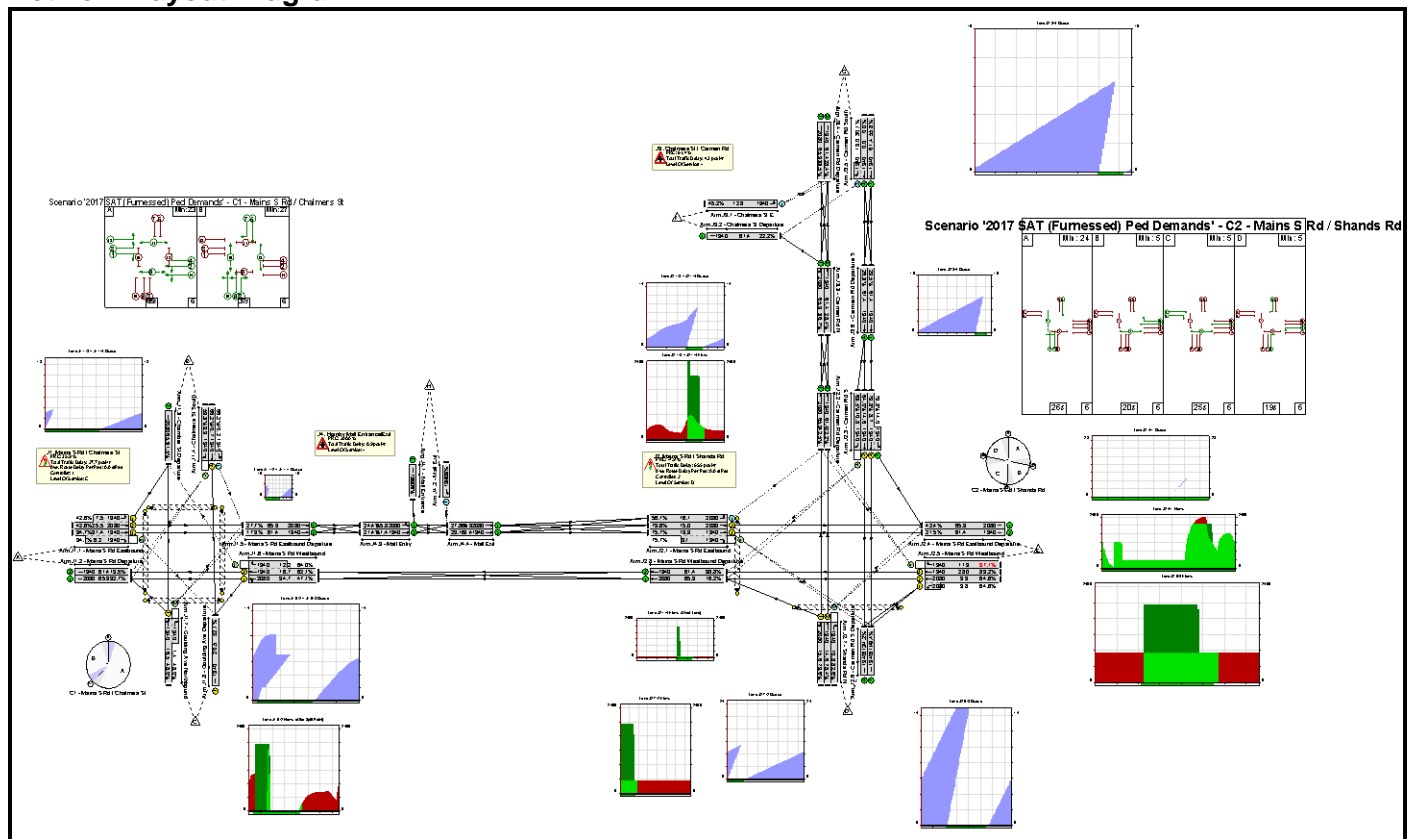


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User and Project Details

Project:	
Title:	
Location:	
Additional detail:	
File name:	Denton Park - Hornby Mall - 114 Cycle Time PM Peak Flow.lsg3x
Author:	
Company:	
Address:	

**Scenario 11: '2017 SAT (Furnished) Ped Demands' (FG2: '2017 SAT Flow', Plan 1: 'Plan 1 - Ped Demands')
 Network Layout Diagram**



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Network Results

Item	Lane Description	Lane Type	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Max Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-	-	-	-	97.1%	98.5	-	-
J1: Mains S Rd / Chalmers St	-	-	-	-	-	-	66.2%	27.7	-	-
1/2+1/1	Mains S Rd Eastbound Left Ahead	U	580	2080:1940	2080	807+553	42.6 : 42.6%	2.5	15.4	5.8
1/3+1/4	Mains S Rd Eastbound Ahead Right	U+O	412	1940:1940	1940	991+196	34.7 : 34.7%	1.7	14.9	5.8
2/1	Mains S Rd Departure	U	681	2080	2080	2080	32.7%	0.2	1.3	0.2
2/2	Mains S Rd Departure	U	379	1940	1940	1940	19.5%	0.1	1.2	0.1
3/1	Chamber St Departure	U	655	2080	2080	2080	31.5%	0.2	1.3	0.2
4/2+4/1	Chalmers St South Left Ahead	U+O	437	1940:1940	1940	337+323	66.2 : 66.2%	3.6	30.0	10.4
4/3	Chalmers St South Right	O	185	1940	1940	312	59.3%	2.5	49.3	5.8
5/1	Mains S Rd Eastbound Daparture Ahead	U	576	2080	2080	2080	27.7%	0.2	1.2	0.2
5/2	Mains S Rd Eastbound Daparture Ahead	U	347	1940	1940	1940	17.9%	0.1	1.1	0.1
6/1	Mains S Rd Westbound Ahead Left	U	516	2080	2080	1095	47.1%	4.5	31.6	14.7
6/2+6/3	Mains S Rd Westbound Ahead Right	U+O	573	1940:1940	1940	527+384	62.1 : 64.0%	6.8	42.6	11.1
7/1+7/2	Goulding Ave Northbound Left Ahead Right	U+O	272	1940:1940	1940	522+44	48.0 : 48.0%	3.0	39.7	7.1
8/1	Goulding Ave Departure	U	337	1940	1940	647	52.1%	2.2	23.3	5.5
Ped Link: P1	Mains S Rd	-	0	-	-	0	0.0%	-	-	-
Ped Link: P2	Chalmers St Crossing	-	0	-	-	0	0.0%	-	-	-
Ped Link: P3	Mains S Rd Eastbound	-	0	-	-	0	0.0%	-	-	-
Ped Link: P4	Goulding Ave	-	0	-	-	0	0.0%	-	-	-
J2: Mains S Rd / Shands Rd	-	-	-	-	-	-	97.1%	65.5	-	-
1/1	Mains S Rd Eastbound Left	O	285	2080	2080	508	56.1%	0.8	10.6	2.4

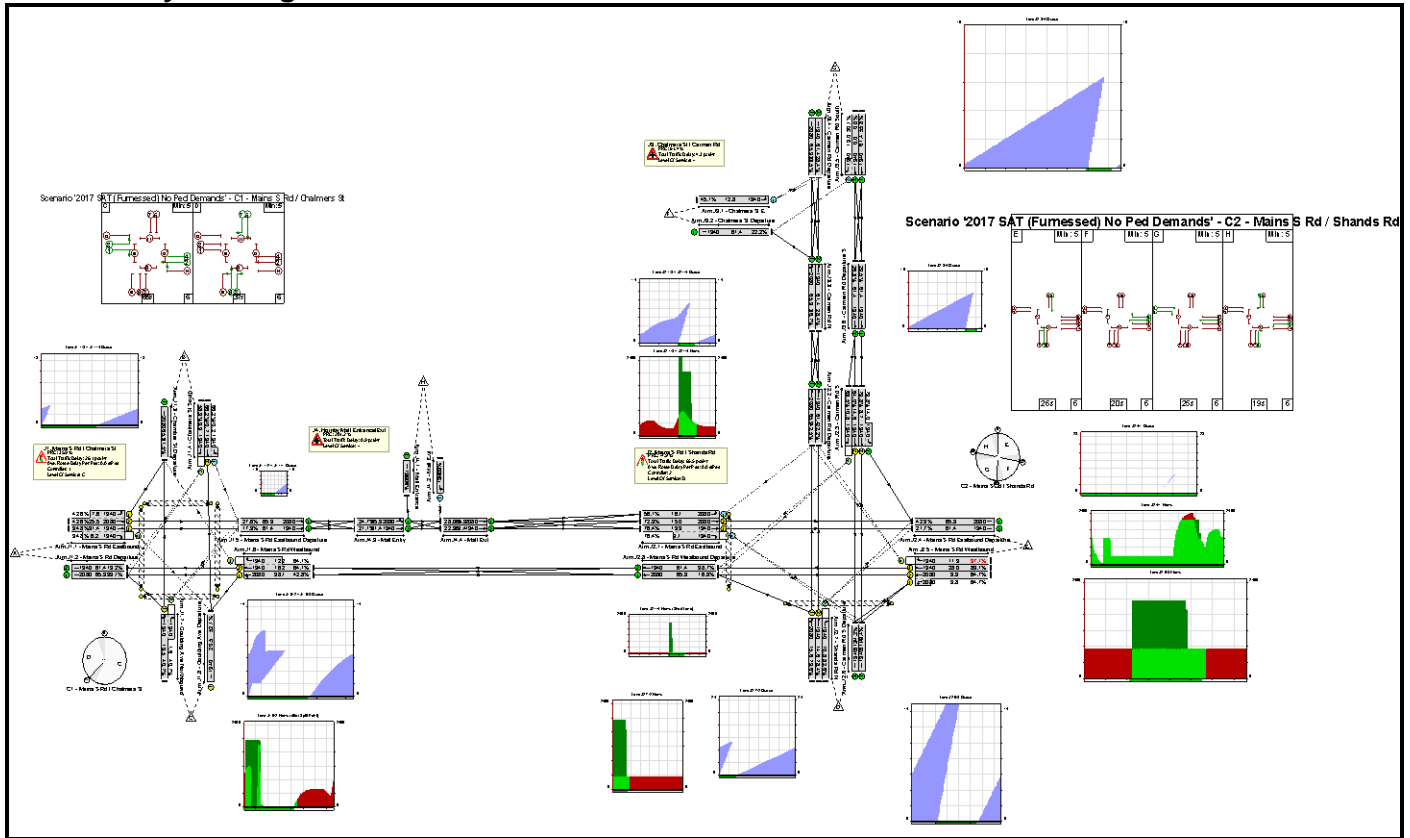
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1/2	Mains S Rd Eastbound Ahead	U	349	2080	2080	474	73.6%	4.6	47.0	11.4
1/3+1/4	Mains S Rd Eastbound Ahead Right	U+O	392	1940:1940	1940	420+98	75.7 : 75.7%	5.2	47.7	10.7
2/1	Carmen Rd Departure Ahead	U	884	2080	2080	2080	42.5%	0.4	1.6	6.3
2/2	Carmen Rd Departure Ahead	U	430	1940	1940	1940	22.2%	0.1	1.2	0.1
3/2+3/1	Carmen Rd S Left Ahead	U	572	1940:1940	1940	276+441	79.8 : 79.8%	4.3	27.4	10.1
3/3	Carmen Rd S Ahead	U	294	1940	1940	459	64.0%	4.1	49.9	9.2
3/4	Carmen Rd S Right	O	216	1940	1940	340	63.5%	3.5	57.9	7.2
4/1	Mains S Rd Eastbound Departure	U	882	2080	2080	2080	42.4%	0.4	1.7	9.2
4/2	Mains S Rd Eastbound Departure	U	418	1940	1940	1940	21.5%	0.1	1.2	0.1
5/2+5/1	Mains S Rd Westbound Left Ahead	U	267	2080:2080	2080	104+310	64.6 : 64.6%	3.9	53.1	7.4
5/3	Mains S Rd Westbound Ahead	U	736	1940	1940	885	83.2%	7.9	38.9	22.6
5/4	Mains S Rd Westbound Right	O	347	1940	1940	357	97.1%	11.5	119.6	18.0
6/1	Carmen Rd S Departure	U	376	1940	1940	1940	19.4%	0.1	1.2	0.1
6/2	Carmen Rd S Departure	U	412	1940	1940	1940	21.2%	0.1	1.2	0.1
7/1	Shands Rd N Ahead Left	U	392	2080	2080	493	79.6%	6.3	58.2	13.5
7/2	Shands Rd N Ahead	U	360	1940	1940	459	78.4%	5.8	58.2	12.3
7/3	Shands Rd N Right	O	281	1940	1940	340	82.6%	5.7	73.6	10.7
8/1	Mains S Rd Westbound Departure Ahead	U	336	2080	2080	2080	16.2%	0.1	1.0	0.1
8/2	Mains S Rd Westbound Departure Ahead	U	753	1940	1940	1940	38.8%	0.3	1.5	0.3
Ped Link: P1	Shands Rd	-	0	-	-	0	0.0%	-	-	-
Ped Link: P2	Mains S Rd	-	0	-	-	0	0.0%	-	-	-
J3: Chalmers St / Carmen Rd	-	-	-	-	-	-	55.8%	4.3	-	-
1/1	Chalmers St E Left	O	183	1940	1940	405	45.2%	1.2	23.4	3.9
2/1	Chalmers St Departure	U	431	1940	1940	1940	22.2%	0.1	1.2	0.1

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3/1	Carmen Rd N Left Ahead	U	764	2080	2080	2080	36.7%	0.3	1.4	0.3
3/2	Carmen Rd N Ahead	U	550	1940	1940	1940	28.4%	0.3	1.7	9.6
4/1	Carmen Rd Departure	U	696	2080	2080	2080	33.5%	0.3	1.3	0.3
4/2	Carmen Rd Departure	U	551	1940	1940	1940	28.4%	0.2	1.3	0.2
5/1	Carmen Rd South Ahead	U	1082	1940	1940	1940	55.8%	0.6	2.1	0.6
5/2+5/3	Carmen Rd South Right Ahead	U+O	181	1940:1940	1940	0+601	0.0 : 30.1%	0.9	18.9	3.4
6/1	Carmern Rd Departure S Ahead	U	572	1940	1940	1940	29.5%	0.2	1.3	0.2
6/2	Carmern Rd Departure S Ahead	U	510	1940	1940	1940	26.3%	0.2	1.3	0.2
J4: Hornby Mall Entrance/Exit	-	-	-	-	-	-	30.0%	0.9	-	-
1/1	Mall Entrance	U	69	1940	1940	1940	3.6%	0.0	1.0	0.0
2/1	Mall Exit Left	O	172	1940	1940	573	30.0%	0.2	4.5	0.2
3/1	Mall Entry Left Ahead	U	508	2080	2080	2080	24.4%	0.2	1.1	0.2
3/2	Mall Entry Ahead	U	415	1940	1940	1940	21.4%	0.1	1.2	0.1
4/1	Mall Exit Ahead	U	578	2080	2080	2080	27.8%	0.2	1.2	0.2
4/2	Mall Exit Ahead	U	448	1940	1940	1940	23.1%	0.2	1.2	0.2
C1 - Mains S Rd / Chalmers St		PRC for Signalled Lanes (%):	35.9	Total Delay for Signalled Lanes (pcuHr):		26.85	Cycle Time (s):		114	
C2 - Mains S Rd / Shands Rd		PRC for Signalled Lanes (%):	-7.9	Total Delay for Signalled Lanes (pcuHr):		62.96	Cycle Time (s):		114	
		PRC Over All Lanes (%):	-7.9	Total Delay Over All Lanes(pcuHr):		98.47				

Scenario 12: '2017 SAT (Furnished) No Ped Demands' (FG2: '2017 SAT Flow', Plan 2: 'Plan 2 - No Ped Demands')
Network Layout Diagram



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Network Results

Item	Lane Description	Lane Type	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Max Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-	-	-	-	97.1%	96.8	-	-
J1: Mains S Rd / Chalmers St	-	-	-	-	-	-	66.2%	26.1	-	-
1/2+1/1	Mains S Rd Eastbound Left Ahead	U	579	2080:1940	2080	806+555	42.6 : 42.6%	2.3	14.2	5.8
1/3+1/4	Mains S Rd Eastbound Ahead Right	U+O	413	1940:1940	1940	992+195	34.8 : 34.8%	1.9	16.6	5.8
2/1	Mains S Rd Departure	U	688	2080	2080	2080	33.1%	0.2	1.3	0.2
2/2	Mains S Rd Departure	U	372	1940	1940	1940	19.2%	0.1	1.1	0.1
3/1	Chamber St Departure	U	655	2080	2080	2080	31.5%	0.2	1.3	0.2
4/2+4/1	Chalmers St South Left Ahead	U+O	437	1940:1940	1940	337+323	66.2 : 66.2%	3.6	30.0	10.4
4/3	Chalmers St South Right	O	185	1940	1940	314	58.9%	2.8	53.7	5.8
5/1	Mains S Rd Eastbound Daparture Ahead	U	575	2080	2080	2080	27.6%	0.2	1.2	0.2
5/2	Mains S Rd Eastbound Daparture Ahead	U	348	1940	1940	1940	17.9%	0.1	1.1	0.1
6/1	Mains S Rd Westbound Ahead Left	U	515	2080	2080	1204	42.8%	3.8	26.6	14.3
6/2+6/3	Mains S Rd Westbound Ahead Right	U+O	574	1940:1940	1940	512+384	64.1 : 64.1%	6.2	38.9	11.2
7/1+7/2	Goulding Ave Northbound Left Ahead Right	U+O	272	1940:1940	1940	617+52	40.7 : 40.7%	2.5	33.7	6.4
8/1	Goulding Ave Departure	U	337	1940	1940	647	52.1%	2.1	22.0	5.5
Ped Link: P1	Mains S Rd	-	0	-	-	0	0.0%	Inf	Inf	Inf
Ped Link: P2	Chalmers St Crossing	-	0	-	-	0	0.0%	Inf	Inf	Inf
Ped Link: P3	Mains S Rd Eastbound	-	0	-	-	0	0.0%	Inf	Inf	Inf
Ped Link: P4	Goulding Ave	-	0	-	-	0	0.0%	Inf	Inf	Inf
J2: Mains S Rd / Shands Rd	-	-	-	-	-	-	97.1%	65.5	-	-
1/1	Mains S Rd Eastbound Left	O	285	2080	2080	508	56.1%	0.8	10.7	2.4

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1/2	Mains S Rd Eastbound Ahead	U	346	2080	2080	474	72.9%	4.5	46.5	11.3
1/3+1/4	Mains S Rd Eastbound Ahead Right	U+O	395	1940:1940	1940	420+97	76.4 : 76.4%	5.3	48.1	10.9
2/1	Carmen Rd Departure Ahead	U	884	2080	2080	2080	42.5%	0.4	1.6	6.3
2/2	Carmen Rd Departure Ahead	U	430	1940	1940	1940	22.2%	0.1	1.2	0.1
3/2+3/1	Carmen Rd S Left Ahead	U	572	1940:1940	1940	276+441	79.8 : 79.8%	4.3	27.4	10.1
3/3	Carmen Rd S Ahead	U	294	1940	1940	459	64.0%	4.1	49.9	9.2
3/4	Carmen Rd S Right	O	216	1940	1940	340	63.5%	3.5	57.9	7.2
4/1	Mains S Rd Eastbound Departure	U	879	2080	2080	2080	42.3%	0.4	1.7	9.1
4/2	Mains S Rd Eastbound Departure	U	421	1940	1940	1940	21.7%	0.1	1.2	0.1
5/2+5/1	Mains S Rd Westbound Left Ahead	U	268	2080:2080	2080	105+309	64.7 : 64.7%	4.0	53.1	7.5
5/3	Mains S Rd Westbound Ahead	U	735	1940	1940	885	83.1%	7.9	38.8	22.6
5/4	Mains S Rd Westbound Right	O	347	1940	1940	357	97.1%	11.5	119.6	18.0
6/1	Carmen Rd S Departure	U	376	1940	1940	1940	19.4%	0.1	1.2	0.1
6/2	Carmen Rd S Departure	U	412	1940	1940	1940	21.2%	0.1	1.2	0.1
7/1	Shands Rd N Ahead Left	U	392	2080	2080	493	79.6%	6.3	58.2	13.5
7/2	Shands Rd N Ahead	U	360	1940	1940	459	78.4%	5.8	58.2	12.3
7/3	Shands Rd N Right	O	281	1940	1940	340	82.6%	5.7	73.6	10.7
8/1	Mains S Rd Westbound Departure Ahead	U	339	2080	2080	2080	16.3%	0.1	1.0	0.1
8/2	Mains S Rd Westbound Departure Ahead	U	750	1940	1940	1940	38.7%	0.3	1.5	0.3
Ped Link: P1	Shands Rd	-	0	-	-	0	0.0%	Inf	Inf	Inf
Ped Link: P2	Mains S Rd	-	0	-	-	0	0.0%	Inf	Inf	Inf
J3: Chalmers St / Carmen Rd	-	-	-	-	-	-	55.8%	4.3	-	-
1/1	Chalmers St E Left	O	183	1940	1940	405	45.1%	1.2	23.4	3.9
2/1	Chalmers St Departure	U	431	1940	1940	1940	22.2%	0.1	1.2	0.1

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3/1	Carmen Rd N Left Ahead	U	763	2080	2080	2080	36.7%	0.3	1.4	0.3
3/2	Carmen Rd N Ahead	U	551	1940	1940	1940	28.4%	0.3	1.7	9.9
4/1	Carmen Rd Departure	U	696	2080	2080	2080	33.5%	0.3	1.3	0.3
4/2	Carmen Rd Departure	U	551	1940	1940	1940	28.4%	0.2	1.3	0.2
5/1	Carmen Rd South Ahead	U	1082	1940	1940	1940	55.8%	0.6	2.1	0.6
5/2+5/3	Carmen Rd South Right Ahead	U+O	181	1940:1940	1940	0+601	0.0 : 30.1%	0.9	18.9	3.4
6/1	Carmern Rd Departure S Ahead	U	572	1940	1940	1940	29.5%	0.2	1.3	0.2
6/2	Carmern Rd Departure S Ahead	U	510	1940	1940	1940	26.3%	0.2	1.3	0.2
J4: Hornby Mall Entrance/Exit	-	-	-	-	-	-	29.9%	0.9	-	-
1/1	Mall Entrance	U	69	1940	1940	1940	3.6%	0.0	1.0	0.0
2/1	Mall Exit Left	O	172	1940	1940	576	29.9%	0.2	4.5	0.2
3/1	Mall Entry Left Ahead	U	514	2080	2080	2080	24.7%	0.2	1.1	0.2
3/2	Mall Entry Ahead	U	409	1940	1940	1940	21.1%	0.1	1.2	0.1
4/1	Mall Exit Ahead	U	582	2080	2080	2080	28.0%	0.2	1.2	0.2
4/2	Mall Exit Ahead	U	444	1940	1940	1940	22.9%	0.1	1.2	0.1
C1 - Mains S Rd / Chalmers St		PRC for Signalled Lanes (%):	35.9	Total Delay for Signalled Lanes (pcuHr):		25.19	Cycle Time (s):		114	
C2 - Mains S Rd / Shands Rd		PRC for Signalled Lanes (%):	-7.9	Total Delay for Signalled Lanes (pcuHr):		62.95	Cycle Time (s):		114	
		PRC Over All Lanes (%):	-7.9	Total Delay Over All Lanes(pcuHr):		96.80				

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Saturday Observed Queues

Chalmers Street – SH1 – Goulding Avenue

	Chalmers St Southbound	SH1 Westbound	Goulding Ave Northbound	SH1 Eastbound
11:00	5	4	6	2
11:05	6	5	7	5
11:10	6	3	5	3
11:15	8	4	6	8
11:20	8	6	10	9
11:25	9	4	9	9
11:30	7	7	6	11
11:35	10	8	10	12
11:40	8	7	8	11
11:45	9	7	9	10
11:50	9	8	13	10
11:55	10	7	11	12
12:00	8	10	10	10
12:05	7	9	8	11
12:10	8	9	9	11
12:15	9	10	8	12
12:20	8	11	10	10
12:25	8	8	7	9
12:30	10	10	10	10
12:35	8	9	9	12
12:40	6	10	6	11
12:45	7	10	7	11
12:50	6	8	7	9
12:55	8	8	8	10

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Carmen Road – SH1 – Shands Road

	Carmen Rd Southbound	SH1 Westbound	Shands Rd Northbound	SH1 Eastbound
11:00	8	8	7	6
11:05	10	6	8	8
11:10	9	7	8	6
11:15	9	7	11	11
11:20	8	9	10	10
11:25	9	8	11	11
11:30	9	10	9	12
11:35	11	11	11	10
11:40	12	11	10	9
11:45	10	10	10	10
11:50	11	12	12	11
11:55	13	10	11	11
12:00	12	11	10	10
12:05	10	10	11	11
12:10	13	12	12	10
12:15	10	12	9	12
12:20	10	11	10	9
12:25	11	10	12	10
12:30	14	13	11	9
12:35	10	10	9	11
12:40	11	12	9	11
12:45	13	12	10	9
12:50	11	13	12	9
12:55	12	11	10	10

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Carmen Road - Chalmers

Chalmers St Eastbound		
11:00		3
11:05		2
11:10		3
11:15		4
11:20		2
11:25		4
11:30		3
11:35		5
11:40		3
11:45		6
11:50		4
11:55		5
12:00		4
12:05		3
12:10		4
12:15		4
12:20		3
12:25		4
12:30		3
12:35		3
12:40		2
12:45		5
12:50		4
12:55		3