

Appendix C

A2/Wrotham Road Southern Roundabout 'Interim' Mitigation Scheme (ARCADY) Model Outputs (Lane Simulation)

Junctions 11

ARCADY 11 - Roundabout Module

Version: 11.1.0.2307
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Filename: Junction 7 - Wrotham Road_A2 Linked Rbt - Lane Sim - AM - 3.7m Half Width.j11
Path: C:\Users\mattjohnson\Ridge and Partners LLP\Hub Transport Planning - General\Projects\T25526 Longfield Road, Meopham\Modelling\Arcady\Rose Farm
Report generation date: 11/08/2026 08:05:51

»D1 - 2030 | RF Do Minimum | AM
»D3 - 2030 | RF Do Minimum + Development | AM

Summary of junction performance

	AM			
	Set ID	Queue (PCU)	Delay (s)	RFC
	[Lane Simulation] - 2030 - RF Do Minimum			
Arm 1	D1	65.6	252.16	
Arm 2		8.3	28.18	
Arm 4		5.4	11.96	
	[Lane Simulation] - 2030 - RF Do Minimum + Development			
Arm 1	D3	68.3	265.41	
Arm 2		8.5	33.97	
Arm 4		5.3	12.06	

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Arm and junction delays are averages for all movements, including movements with zero delay.

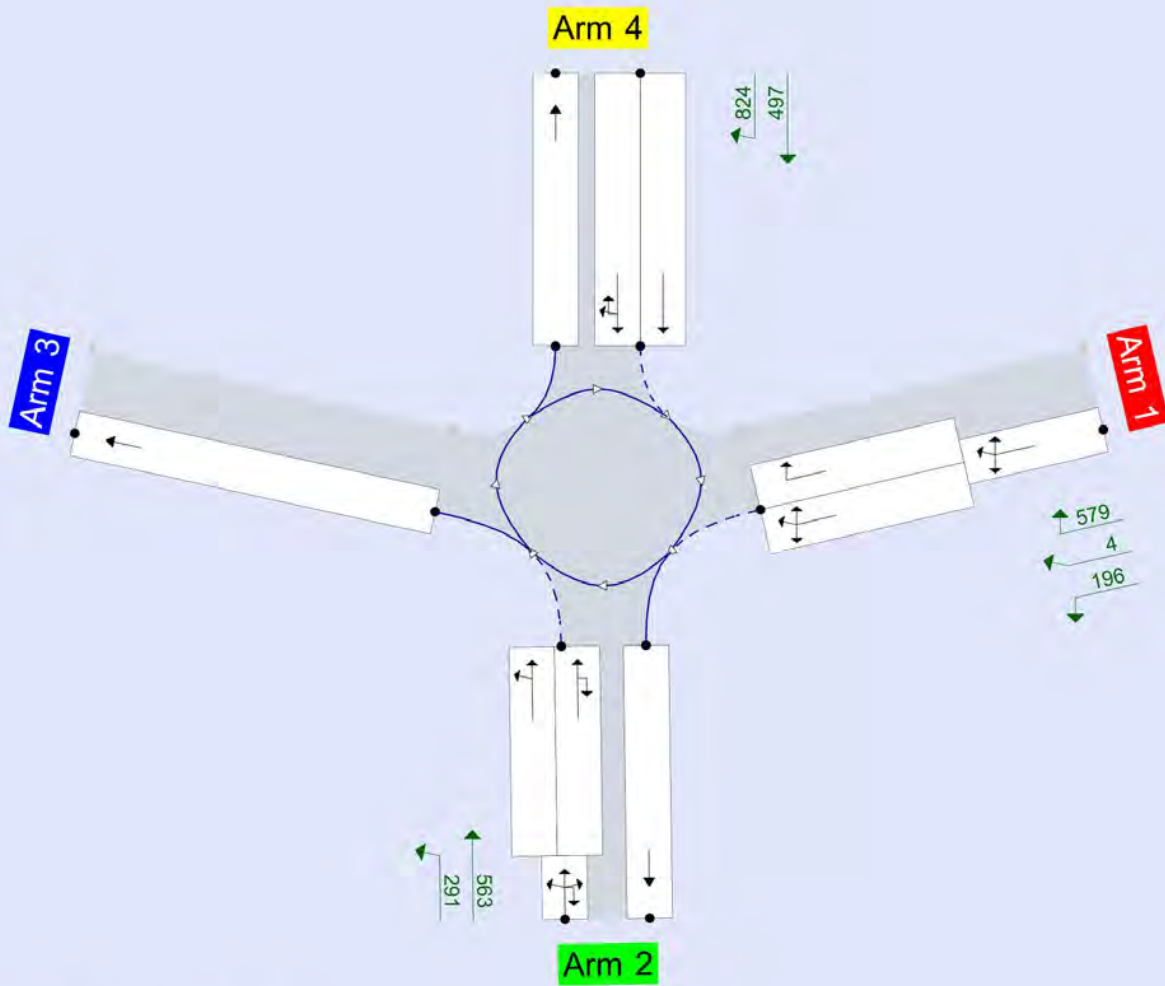
File summary

File Description

Title	
Location	Wrotham Road/A2 Southern Roundabout
Site number	7
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

Lane simulation visualisation time: 07:45:00

The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75	✓					0.85	36.00	20.00		

Lane Simulation options

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	Calculate RFCs	Random seed	Results refresh speed (s)	Individual vehicle animation number of trials	Average animation capture interval (s)	Use quick response	Do flow sampling	Suppress automatic lane creation	Last run random seed	Last run number of trials	Last run time taken (s)
Delay	1.00	100000	100000	Do not calculate	-1	3	1	60	✓			1791651674	134	7.65

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2030	RF Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D3	2030	RF Do Minimum + Development	AM	ONE HOUR	07:45	09:15	15	✓

Analysis Set Details

ID	Use Lane Simulation	Include in report	Use specific Demand Set(s)	Specific Demand Set(s)	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	✓	✓	D1,D3	100.000	100.000

D1 - 2030 | RF Do Minimum | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	79.93	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	79.93	F

Arms

Arms

Arm	Name	Description	No give-way line
1	A2 (E) Off-Slip		
2	Wrotham Road S		
3	A2 (W) On-Slip		
4	Wrotham Road N - Internal Link		

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
1	3.70	8.50	10.2	19.1	59.9	60.0	✓	
2	4.90	9.20	22.2	24.1	59.9	49.0		
3								✓
4	7.60	8.10	6.9	20.8	59.9	36.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.499	1520
2	0.622	2157
3		
4	0.671	2380

The slope and intercept shown above include any corrections and adjustments.

Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
1	Evenly split	10.00
2	Evenly split	10.00
3	Evenly split	10.00
4	Evenly split	10.00

Lanes

Arm	Side	Lane level	Lane	Destination arms	Has limited storage	Storage (PCU)	Has bottleneck	Has obstruction	Minimum capacity (PCU/hr)	Maximum capacity (PCU/hr)	Signalised
1	Entry	1	1	2, 3, 4	✓	4.00			0	99999	
			2	4	✓	4.00			0	99999	
		2	1	(2, 3, 4)		Infinity					
2	Entry	1	1	3, 4	✓	4.00			0	99999	
			2	2, 4	✓	4.00			0	99999	
		2	1	(1, 2, 3, 4)		Infinity					
	Exit	1	1			Infinity					
3	Exit	1	1			Infinity					
4	Entry	1	1	2		Infinity			0	99999	
			2	2, 3, 4		Infinity			0	99999	
	Exit	1	1			Infinity					

Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
1	Entry	1	1	0.249	760
			2	0.249	760
2	Entry	1	1	0.311	1079
			2	0.311	1079
4	Entry	1	1	0.335	1190
			2	0.335	1190

Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			1	2	3	4
1	1	1		✓	✓	✓
		2				✓
	2	1		✓	✓	✓
2	1	1			✓	✓
		2		✓		✓
	2	1	✓	✓	✓	✓
4	1	1		✓		
		2		✓	✓	✓

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2030	RF Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	779	100.000
2		ONE HOUR	✓	854	100.000
3					
4		ONE HOUR	✓	1322	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1	2	3	4
	1	0	196	4	579
	2	0	0	291	563
	3	0	0	0	0
	4	0	497	824	1

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

	To				
		1	2	3	4
	1	10	10	10	10
	2	10	10	10	10
	3	10	10	10	10
	4	10	10	10	10

Cyclist %

	To				
		1	2	3	4
	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	252.16	65.6	120.5	F	717	1075
2	28.18	8.3	26.1	D	787	1180
3						
4	11.96	5.4	14.7	B	1217	1826

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	585	146	1005	586	576	0	0.0	2.5	12.787	B
2	647	162	1062	644	642	529	0.0	1.6	7.121	A
3			0			843				
4	1005	251	0	1005	998	863	0.0	1.7	6.349	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	716	179	1183	712	700	0	2.5	6.2	27.103	D
2	777	194	1278	783	773	617	1.6	2.0	10.735	B
3			0			1013				
4	1187	297	0	1183	1186	1048	1.7	2.9	7.842	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	853	213	1459	746	754	0	6.2	34.9	103.331	F
2	948	237	1460	960	933	746	2.0	6.7	24.188	C
3			0			1231				
4	1467	367	0	1459	1445	1189	2.9	5.4	11.930	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	854	213	1467	752	741	0	34.9	65.6	252.159	F
2	958	240	1484	946	941	736	6.7	8.3	28.177	D
3			0			1234				
4	1465	366	0	1467	1461	1195	5.4	4.9	11.958	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	704	176	1194	837	825	0	65.6	38.4	234.865	F
2	759	190	1370	762	792	661	8.3	3.0	16.220	C
3			0			1000				
4	1187	297	0	1194	1211	1132	4.9	2.9	8.480	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	589	147	994	647	722	0	38.4	6.0	76.296	F
2	633	158	1109	637	649	532	3.0	1.2	9.583	A
3			0			848				
4	993	248	0	994	1004	898	2.9	1.8	6.495	A

Queue Variation Results for each time segment**07:45 - 08:00**

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.49	0.00	1.38	5.12	7.10
2	1.58	0.00	0.83	3.09	4.08
3					
4	1.69	0.00	0.84	3.51	4.33

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	6.23	0.00	4.71	11.60	16.45
2	1.96	0.00	0.89	4.10	5.65
3					
4	2.95	0.00	1.71	6.52	7.86

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	34.92	4.68	34.50	58.20	67.30
2	6.67	0.00	3.93	13.83	16.86
3					
4	5.36	0.00	3.23	12.52	14.65

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	65.63	13.80	63.50	103.60	120.53
2	8.26	-0.02	4.70	20.60	26.10
3					
4	4.94	0.00	3.24	10.80	13.43

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	38.37	0.39	31.00	87.53	107.50
2	2.99	0.00	2.00	6.09	7.10
3					
4	2.87	0.00	1.52	6.73	8.58

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	5.98	0.00	1.80	12.60	38.30
2	1.18	0.00	0.24	2.84	3.76
3					
4	1.78	0.00	0.53	4.60	5.72

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	330	510	0.648	329	323	0.0	1.4	12.710	B
			2	4	255	510	0.500	256	253	0.0	0.9	11.002	B
		2	1	(2, 3, 4)	585			585	585	0.0	0.2	0.816	A
2	Entry	1	1	3, 4	385	748	0.515	383	387	0.0	1.0	7.363	A
			2	2, 4	262	748	0.350	260	254	0.0	0.6	6.140	A
		2	1	(1, 2, 3, 4)	647			647	648	0.0	0.0	0.243	A
	Exit	1	1		529			529	515	0.0	0.0	0.000	A
3	Exit	1	1		843			843	842	0.0	0.0	0.000	A
4	Entry	1	1	2	276	1190	0.232	276	269	0.0	0.3	4.052	A
			2	2, 3, 4	729	1190	0.612	730	729	0.0	1.4	7.192	A
	Exit	1	1		863			863	859	0.0	0.0	0.000	A

08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	396	465	0.851	392	381	1.4	2.6	20.289	C
			2	4	324	465	0.697	321	318	0.9	1.9	17.655	C
		2	1	(2, 3, 4)	716			720	709	0.2	1.7	7.914	A
2	Entry	1	1	3, 4	453	681	0.665	456	451	1.0	1.2	10.367	B
			2	2, 4	326	681	0.479	328	322	0.6	0.6	8.228	A
		2	1	(1, 2, 3, 4)	777			779	774	0.0	0.1	1.254	A
	Exit	1	1		617			617	627	0.0	0.0	0.000	A
3	Exit	1	1		1013			1013	1001	0.0	0.0	0.000	A
4	Entry	1	1	2	344	1190	0.289	345	347	0.3	0.5	4.460	A
			2	2, 3, 4	843	1190	0.708	839	839	1.4	2.5	9.234	A
	Exit	1	1		1048			1048	1031	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	400	397	1.010	401	403	2.6	3.9	31.594	D
			2	4	349	397	0.881	346	351	1.9	3.2	27.667	D
		2	1	(2, 3, 4)	853			750	764	1.7	27.8	73.004	F
2	Entry	1	1	3, 4	537	625	0.860	540	524	1.2	2.5	16.147	C
			2	2, 4	420	625	0.671	420	409	0.6	1.5	12.479	B
		2	1	(1, 2, 3, 4)	948			957	942	0.1	2.7	9.599	A
	Exit	1	1		746			746	738	0.0	0.0	0.000	A
3	Exit	1	1		1231			1231	1218	0.0	0.0	0.000	A
4	Entry	1	1	2	466	1190	0.392	464	461	0.5	0.8	5.073	A
			2	2, 3, 4	1001	1190	0.841	995	984	2.5	4.5	15.115	C
	Exit	1	1		1189			1189	1176	0.0	0.0	0.000	A

08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	394	395	0.998	394	391	3.9	4.0	35.930	E
			2	4	359	395	0.909	359	351	3.2	3.0	29.890	D
		2	1	(2, 3, 4)	854			753	741	27.8	58.6	219.920	F
2	Entry	1	1	3, 4	534	617	0.865	531	529	2.5	2.7	16.828	C
			2	2, 4	415	617	0.672	415	413	1.5	1.5	13.055	B
		2	1	(1, 2, 3, 4)	958			949	942	2.7	4.1	12.966	B
	Exit	1	1		736			736	735	0.0	0.0	0.000	A
3	Exit	1	1		1234			1234	1232	0.0	0.0	0.000	A
4	Entry	1	1	2	463	1190	0.389	462	466	0.8	0.8	5.348	A
			2	2, 3, 4	1002	1190	0.842	1005	996	4.5	4.1	15.062	C
	Exit	1	1		1195			1195	1177	0.0	0.0	0.000	A

08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	440	463	0.952	446	439	4.0	3.4	30.280	D
			2	4	386	463	0.835	392	386	3.0	2.4	25.568	D
		2	1	(2, 3, 4)	704			826	820	58.6	32.6	207.781	F
2	Entry	1	1	3, 4	436	653	0.668	436	454	2.7	1.7	13.053	B
			2	2, 4	327	653	0.502	326	338	1.5	1.1	10.333	B
		2	1	(1, 2, 3, 4)	759			763	786	4.1	0.2	4.502	A
	Exit	1	1		661			661	660	0.0	0.0	0.000	A
3	Exit	1	1		1000			1000	1030	0.0	0.0	0.000	A
4	Entry	1	1	2	346	1190	0.291	346	355	0.8	0.5	4.630	A
			2	2, 3, 4	840	1190	0.706	848	856	4.1	2.4	10.077	B
	Exit	1	1		1132			1132	1137	0.0	0.0	0.000	A

09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	355	512	0.692	355	387	3.4	1.8	21.603	C
			2	4	290	512	0.566	292	335	2.4	1.1	17.678	C
		2	1	(2, 3, 4)	589			644	711	32.6	3.0	57.651	F
2	Entry	1	1	3, 4	379	734	0.517	382	386	1.7	0.7	9.583	A
			2	2, 4	255	734	0.347	255	263	1.1	0.4	7.694	A
		2	1	(1, 2, 3, 4)	633			634	642	0.2	0.0	0.770	A
	Exit	1	1		532			532	556	0.0	0.0	0.000	A
3	Exit	1	1		848			848	852	0.0	0.0	0.000	A
4	Entry	1	1	2	266	1190	0.224	265	276	0.5	0.3	4.005	A
			2	2, 3, 4	727	1190	0.611	729	728	2.4	1.5	7.438	A
	Exit	1	1		898			898	966	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.38	0.00	0.66	4.00	4.00
			2	0.92	0.00	0.18	1.86	2.66
		2	1	0.19	0.00	0.00	0.00	0.15
2	Entry	1	1	1.01	0.00	0.35	1.96	2.70
			2	0.56	0.00	0.00	1.48	1.89
		2	1	0.00	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.28	0.00	0.00	0.72	1.26
			2	1.41	0.00	0.51	3.08	3.91
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:00 - 08:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	2.64	0.00	2.50	3.86	3.99
			2	1.87	0.00	1.10	3.61	3.82
		2	1	1.71	0.00	0.00	5.53	10.30
2	Entry	1	1	1.19	0.00	0.42	2.74	4.00
			2	0.65	0.00	0.00	1.40	1.88
		2	1	0.13	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.48	0.00	0.00	1.37	1.74
			2	2.47	0.00	1.19	6.10	7.33
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:15 - 08:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	3.87	1.96	3.48	3.97	5.00
			2	3.22	0.00	3.17	3.94	5.00
		2	1	27.83	0.00	27.00	54.20	61.15
2	Entry	1	1	2.55	0.00	2.28	3.90	5.00
			2	1.46	0.00	0.67	4.00	4.00
		2	1	2.67	0.00	0.00	8.27	12.30
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.84	0.00	0.00	1.93	3.08
			2	4.53	0.00	2.42	10.53	13.15
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:30 - 08:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	4.00	2.54	3.53	5.00	5.00
			2	2.99	0.00	3.10	3.89	3.99
		2	1	58.64	6.90	55.75	99.00	112.53
2	Entry	1	1	2.66	0.00	2.48	3.84	3.97
			2	1.53	0.00	0.77	3.29	3.71
		2	1	4.08	0.00	0.00	14.30	18.77
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.84	0.00	0.00	2.12	3.92
			2	4.10	0.00	2.64	9.20	12.30
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:45 - 09:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	3.37	0.00	3.32	3.93	5.00
			2	2.41	0.00	2.05	3.76	3.92
		2	1	32.59	0.00	25.33	80.80	102.30
2	Entry	1	1	1.68	0.00	1.15	3.27	3.66
			2	1.06	0.00	0.26	2.44	2.89
		2	1	0.24	0.00	0.00	0.00	0.86
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.51	0.00	0.00	1.42	2.08
			2	2.36	0.00	1.00	6.08	6.91
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

09:00 - 09:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.79	0.00	1.04	3.56	3.82
			2	1.14	0.00	0.05	3.05	3.56
		2	1	3.04	0.00	0.00	5.80	26.50
2	Entry	1	1	0.74	0.00	0.00	1.76	2.38
			2	0.44	0.00	0.00	1.13	1.69
		2	1	0.00	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.31	0.00	0.00	0.72	1.26
			2	1.47	0.00	0.29	4.10	5.26
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	145	36	760	511	0.284	145	139	0.0	0.6	14.659	B
				3	4	0.92	369	256	0.014	3	3	0.0	0.0	15.645	C
				4	181	45	760	511	0.355	182	180	0.0	0.7	11.143	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	255	64	760	511	0.498	256	253	0.0	0.9	11.002	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	146	36	-	-	-	145	142	0.0	0.1	1.257	A
				3	4	0.92	-	-	-	4	3	0.0	0.0	2.339	A
				4	436	109	-	-	-	436	440	0.0	0.1	0.662	A
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	218	55	1079	749	0.291	219	217	0.0	0.6	8.380	A
				4	167	42	1079	749	0.223	165	171	0.0	0.4	6.072	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	262	66	1079	749	0.350	260	254	0.0	0.6	6.140	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	218	54	-	-	-	218	219	0.0	0.0	0.358	A
				4	429	107	-	-	-	429	429	0.0	0.0	0.184	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	276	69	1190	1190	0.232	276	269	0.0	0.3	4.052	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	109	27	1190	1190	0.091	109	106	0.0	0.1	3.815	A
				3	619	155	1190	1190	0.520	621	622	0.0	1.3	7.766	A
				4	0.45	0.11	186	186	0.002	0.45	0.75	0.0	0.0	7.991	A

08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	179	45	760	467	0.382	177	176	0.6	1.3	22.445	C
				3	5	1	454	279	0.017	4	4	0.0	0.0	21.359	C
				4	212	53	760	465	0.456	210	202	0.7	1.3	18.389	C
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	324	81	760	464	0.699	321	318	0.9	1.9	17.655	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	179	45	-	-	-	179	178	0.1	0.6	9.437	A
				3	5	1	-	-	-	5	4	0.0	0.0	7.928	A
				4	533	133	-	-	-	536	526	0.1	1.1	7.396	A
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	263	66	1079	682	0.386	266	263	0.6	0.8	11.627	B
				4	190	48	1079	681	0.279	189	188	0.4	0.4	8.594	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	326	82	1079	679	0.480	328	322	0.6	0.6	8.228	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	262	66	-	-	-	263	264	0.0	0.1	1.518	A
				4	514	129	-	-	-	516	510	0.0	0.1	1.118	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	344	86	1190	1190	0.289	345	347	0.3	0.5	4.460	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	96	24	1190	1190	0.081	95	105	0.1	0.1	4.418	A
				3	746	186	1190	1190	0.627	742	733	1.3	2.3	9.924	A
				4	1	0.29	284	284	0.004	1	1	0.0	0.0	7.690	A

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	191	48	760	399	0.479	192	188	1.3	1.8	32.483	D
				3	3	0.83	443	237	0.014	4	4	0.0	0.0	36.606	E
				4	206	51	760	396	0.520	205	211	1.3	2.0	30.711	D
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	349	87	760	398	0.877	346	351	1.9	3.2	27.667	D
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	218	54	-	-	-	191	190	0.6	7.3	77.374	F
				3	4	1	-	-	-	3	4	0.0	0.1	76.699	F
				4	631	158	-	-	-	555	570	1.1	20.4	71.509	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	322	80	1079	625	0.515	323	320	0.8	1.8	17.610	C
				4	215	54	1079	625	0.344	217	204	0.4	0.8	13.844	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	420	105	1079	625	0.672	420	409	0.6	1.5	12.479	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	320	80	-	-	-	322	324	0.1	1.0	10.126	B
				4	628	157	-	-	-	635	617	0.1	1.7	9.324	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	466	117	1190	1190	0.392	464	461	0.5	0.8	5.073	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	89	22	1190	1190	0.075	89	89	0.1	0.1	5.135	A
				3	910	228	1190	1190	0.765	904	894	2.3	4.4	16.080	C
				4	1	0.31	266	266	0.005	1	1	0.0	0.0	18.477	C

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	190	47	760	395	0.480	190	187	1.8	2.0	36.374	E
				3	5	1	414	223	0.021	5	4	0.0	0.0	32.740	D
				4	199	50	760	396	0.503	199	200	2.0	2.0	35.579	E
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	359	90	760	396	0.907	359	351	3.2	3.0	29.890	D
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	216	54	-	-	-	190	187	7.3	15.3	225.511	F
				3	3	0.87	-	-	-	5	4	0.1	0.2	224.544	F
				4	634	159	-	-	-	558	549	20.4	43.1	217.970	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	314	78	1079	618	0.507	309	316	1.8	1.8	18.260	C
				4	220	55	1079	617	0.357	222	213	0.8	0.8	14.699	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	415	104	1079	618	0.671	415	413	1.5	1.5	13.055	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	317	79	-	-	-	314	316	1.0	1.4	13.893	B
				4	641	160	-	-	-	635	626	1.7	2.7	12.497	B
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	463	116	1190	1190	0.389	462	466	0.8	0.8	5.348	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	84	21	1190	1190	0.071	84	83	0.1	0.2	5.274	A
				3	917	229	1190	1190	0.771	920	911	4.4	3.9	15.958	C
				4	0.90	0.22	249	249	0.004	0.90	1	0.0	0.0	11.140	B

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	205	51	760	463	0.442	210	209	2.0	1.4	30.859	D
				3	4	1	499	300	0.014	4	4	0.0	0.0	32.226	D
				4	232	58	760	462	0.501	231	226	2.0	1.9	29.711	D
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	386	97	760	464	0.833	392	386	3.0	2.4	25.568	D
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	174	44	-	-	-	205	207	15.3	8.3	211.326	F
				3	4	0.94	-	-	-	4	4	0.2	0.2	220.956	F
				4	526	131	-	-	-	618	609	43.1	24.1	206.493	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	252	63	1079	655	0.385	254	268	1.8	1.0	14.503	B
				4	183	46	1079	653	0.281	182	186	0.8	0.6	10.960	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	327	82	1079	653	0.501	326	338	1.5	1.1	10.333	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	251	63	-	-	-	252	265	1.4	0.1	4.971	A
				4	507	127	-	-	-	511	521	2.7	0.1	4.262	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	346	87	1190	1190	0.291	346	355	0.8	0.5	4.630	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	105	26	1190	1190	0.089	105	97	0.2	0.2	4.487	A
				3	734	183	1190	1190	0.616	741	758	3.9	2.2	10.789	B
				4	1	0.31	213	213	0.006	1	1	0.0	0.0	12.920	B

09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	167	42	760	513	0.325	167	181	1.4	0.9	23.056	C
				3	3	0.85	454	303	0.011	3	4	0.0	0.0	21.683	C
				4	184	46	760	513	0.360	185	202	1.9	0.8	20.282	C
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	290	72	760	512	0.566	292	335	2.4	1.1	17.678	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	150	38	-	-	-	167	179	8.3	0.7	60.241	F
				3	3	0.81	-	-	-	3	4	0.2	0.0	53.725	F
				4	436	109	-	-	-	474	527	24.1	2.3	56.808	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	214	54	1079	734	0.292	217	220	1.0	0.5	10.864	B
				4	165	41	1079	733	0.225	165	166	0.6	0.3	7.879	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	255	64	1079	734	0.347	255	263	1.1	0.4	7.694	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	214	53	-	-	-	214	217	0.1	0.0	0.942	A
				4	419	105	-	-	-	419	425	0.1	0.0	0.682	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	266	67	1190	1190	0.224	265	276	0.5	0.3	4.005	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	99	25	1190	1190	0.083	100	99	0.2	0.1	4.052	A
				3	627	157	1190	1190	0.527	628	628	2.2	1.4	7.977	A
				4	0.81	0.20	195	195	0.004	0.90	0.72	0.0	0.0	6.182	A

D3 - 2030 | RF Do Minimum + Development | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	84.75	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	84.75	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2030	RF Do Minimum + Development	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	782	100.000
2		ONE HOUR	✓	882	100.000
3					
4		ONE HOUR	✓	1332	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1	2	3	4
	1	0	199	4	579
	2	0	0	307	575
	3	0	0	0	0
From	4	0	507	824	1

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

	To				
		1	2	3	4
	1	10	10	10	10
	2	10	10	10	10
	3	10	10	10	10
	4	10	10	10	10

Cyclist %

	To				
		1	2	3	4
	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	265.41	68.3	123.4	F	721	1082
2	33.97	8.5	24.4	D	809	1213
3						
4	12.06	5.3	14.9	B	1228	1841

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	585	146	997	593	576	0	0.0	2.1	12.842	B
2	667	167	1052	667	663	538	0.0	1.6	7.442	A
3			0			844				
4	997	249	0	997	995	875	0.0	1.9	6.480	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	707	177	1215	707	698	0	2.1	6.4	28.293	D
2	794	199	1280	791	796	643	1.6	2.7	11.737	B
3			0			1028				
4	1209	302	0	1215	1216	1043	1.9	2.8	8.207	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	865	216	1467	741	742	0	6.4	39.1	115.525	F
2	965	241	1451	961	956	756	2.7	8.0	24.944	C
3			0			1243				
4	1464	366	0	1467	1468	1169	2.8	4.7	11.669	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	861	215	1466	745	743	0	39.1	68.3	265.409	F
2	975	244	1455	990	984	756	8.0	8.5	33.970	D
3			0			1252				
4	1473	368	0	1466	1464	1193	4.7	5.3	12.063	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	718	180	1201	841	830	0	68.3	39.2	237.730	F
2	786	196	1373	781	815	669	8.5	3.3	16.496	C
3			0			1019				
4	1201	300	0	1201	1206	1134	5.3	2.7	8.410	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	591	148	1021	650	731	0	39.2	5.2	75.033	F
2	666	167	1117	666	681	554	3.3	1.6	9.663	A
3			0			867				
4	1021	255	0	1021	1013	917	2.7	1.9	6.645	A

Queue Variation Results for each time segment**07:45 - 08:00**

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.11	0.00	0.85	4.67	6.56
2	1.55	0.00	0.50	3.28	5.45
3					
4	1.90	0.00	0.57	4.67	6.47

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	6.40	0.00	3.63	14.85	21.68
2	2.71	0.00	1.27	6.34	8.09
3					
4	2.82	0.00	1.75	5.84	7.68

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	39.06	4.30	36.25	70.70	78.78
2	7.97	0.00	4.96	17.14	23.70
3					
4	4.71	0.00	2.77	10.57	13.68

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	68.29	14.65	66.20	107.05	123.35
2	8.47	0.00	5.42	19.90	24.35
3					
4	5.29	0.00	3.16	11.70	14.87

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	39.16	0.28	31.25	88.80	98.57
2	3.32	0.00	1.80	6.70	9.78
3					
4	2.74	0.00	1.49	5.93	8.78

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	5.20	0.00	1.93	9.85	22.35
2	1.61	0.00	0.66	3.58	4.47
3					
4	1.87	0.00	0.56	4.62	7.12

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	323	512	0.632	328	323	0.0	1.1	12.792	B
			2	4	263	512	0.513	265	253	0.0	0.9	10.636	B
		2	1	(2, 3, 4)	585			586	584	0.0	0.1	0.980	A
2	Entry	1	1	3, 4	398	751	0.529	398	399	0.0	1.0	7.667	A
			2	2, 4	269	751	0.358	269	264	0.0	0.5	6.403	A
		2	1	(1, 2, 3, 4)	667			666	669	0.0	0.1	0.270	A
	Exit	1	1		538			538	527	0.0	0.0	0.000	A
3	Exit	1	1		844			844	845	0.0	0.0	0.000	A
4	Entry	1	1	2	280	1190	0.236	281	273	0.0	0.3	4.005	A
			2	2, 3, 4	717	1190	0.603	716	722	0.0	1.6	7.412	A
	Exit	1	1		875			875	862	0.0	0.0	0.000	A

08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	386	457	0.844	387	381	1.1	2.3	20.732	C
			2	4	317	457	0.694	319	316	0.9	1.6	18.043	C
		2	1	(2, 3, 4)	707			703	706	0.1	2.5	8.673	A
2	Entry	1	1	3, 4	461	681	0.677	461	466	1.0	1.5	11.140	B
			2	2, 4	332	681	0.487	330	329	0.5	0.9	8.714	A
		2	1	(1, 2, 3, 4)	794			793	799	0.1	0.4	1.588	A
	Exit	1	1		643			643	642	0.0	0.0	0.000	A
3	Exit	1	1		1028			1028	1029	0.0	0.0	0.000	A
4	Entry	1	1	2	357	1190	0.300	357	362	0.3	0.5	4.442	A
			2	2, 3, 4	852	1190	0.716	858	854	1.6	2.3	9.799	A
	Exit	1	1		1043			1043	1039	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	400	395	1.014	398	397	2.3	3.9	31.829	D
			2	4	344	395	0.872	342	345	1.6	3.0	27.513	D
		2	1	(2, 3, 4)	865			744	754	2.5	32.2	85.200	F
2	Entry	1	1	3, 4	538	627	0.858	539	537	1.5	2.6	16.438	C
			2	2, 4	424	627	0.675	422	419	0.9	1.7	12.576	B
		2	1	(1, 2, 3, 4)	965			962	964	0.4	3.7	10.135	B
	Exit	1	1		756			756	752	0.0	0.0	0.000	A
3	Exit	1	1		1243			1243	1237	0.0	0.0	0.000	A
4	Entry	1	1	2	466	1190	0.392	469	471	0.5	0.5	5.204	A
			2	2, 3, 4	998	1190	0.839	998	997	2.3	4.2	14.689	B
	Exit	1	1		1169			1169	1176	0.0	0.0	0.000	A

08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	393	395	0.996	393	393	3.9	4.0	35.617	E
			2	4	350	395	0.887	352	350	3.0	2.9	29.671	D
		2	1	(2, 3, 4)	861			743	743	32.2	61.4	233.317	F
2	Entry	1	1	3, 4	557	626	0.890	557	551	2.6	2.8	17.618	C
			2	2, 4	430	626	0.687	433	433	1.7	1.5	13.446	B
		2	1	(1, 2, 3, 4)	975			988	984	3.7	4.2	18.195	C
	Exit	1	1		756			756	753	0.0	0.0	0.000	A
3	Exit	1	1		1252			1252	1245	0.0	0.0	0.000	A
4	Entry	1	1	2	474	1190	0.399	474	472	0.5	0.7	5.112	A
			2	2, 3, 4	999	1190	0.839	993	993	4.2	4.5	15.361	C
	Exit	1	1		1193			1193	1194	0.0	0.0	0.000	A

08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	442	461	0.958	444	440	4.0	3.5	30.107	D
			2	4	393	461	0.852	396	390	2.9	2.5	25.117	D
		2	1	(2, 3, 4)	718			834	826	61.4	33.2	211.078	F
2	Entry	1	1	3, 4	455	652	0.698	452	472	2.8	1.7	13.593	B
			2	2, 4	329	652	0.505	328	344	1.5	1.0	10.545	B
		2	1	(1, 2, 3, 4)	786			784	809	4.2	0.6	4.295	A
	Exit	1	1		669			669	669	0.0	0.0	0.000	A
3	Exit	1	1		1019			1019	1034	0.0	0.0	0.000	A
4	Entry	1	1	2	357	1190	0.300	356	358	0.7	0.5	4.420	A
			2	2, 3, 4	843	1190	0.709	845	848	4.5	2.3	10.112	B
	Exit	1	1		1134			1134	1148	0.0	0.0	0.000	A

09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	2, 3, 4	355	506	0.702	360	399	3.5	1.7	21.213	C
			2	4	287	506	0.568	290	332	2.5	1.1	18.259	C
		2	1	(2, 3, 4)	591			642	718	33.2	2.4	56.206	F
2	Entry	1	1	3, 4	398	731	0.544	399	404	1.7	1.0	9.667	A
			2	2, 4	269	731	0.367	268	277	1.0	0.6	7.829	A
		2	1	(1, 2, 3, 4)	666			666	676	0.6	0.0	0.777	A
	Exit	1	1		554			554	571	0.0	0.0	0.000	A
3	Exit	1	1		867			867	870	0.0	0.0	0.000	A
4	Entry	1	1	2	284	1190	0.239	284	279	0.5	0.3	4.047	A
			2	2, 3, 4	737	1190	0.619	738	734	2.3	1.5	7.644	A
	Exit	1	1		917			917	984	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.10	0.00	0.26	2.47	3.30
			2	0.86	0.00	0.00	1.90	2.67
		2	1	0.14	0.00	0.00	0.00	0.00
2	Entry	1	1	0.95	0.00	0.01	2.44	4.00
			2	0.51	0.00	0.00	1.15	1.94
		2	1	0.10	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.29	0.00	0.00	0.83	1.45
			2	1.61	0.00	0.33	3.88	5.47
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:00 - 08:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	2.33	0.00	2.02	3.77	3.93
			2	1.58	0.00	0.79	3.42	3.73
		2	1	2.50	0.00	0.00	8.70	14.35
2	Entry	1	1	1.47	0.00	0.66	3.24	3.67
			2	0.86	0.00	0.00	1.92	2.79
		2	1	0.38	0.00	0.00	0.00	1.70
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.47	0.00	0.00	0.97	1.84
			2	2.34	0.00	1.23	5.53	7.12
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:15 - 08:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	3.93	2.09	3.51	5.00	5.00
			2	2.97	0.00	3.08	3.88	3.98
	Exit	2	1	32.17	0.00	28.75	63.70	71.45
2	Entry	1	1	2.57	0.00	2.44	3.76	3.89
			2	1.72	0.00	1.02	3.42	3.73
		2	1	3.67	0.00	0.00	10.68	17.70
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.54	0.00	0.00	1.48	2.29
			2	4.16	0.00	2.41	9.18	12.47
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:30 - 08:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	3.97	2.66	3.51	3.98	5.00
			2	2.92	0.00	2.98	3.89	5.00
	Exit	2	1	61.39	6.30	59.17	99.70	117.05
2	Entry	1	1	2.78	0.00	2.88	3.91	5.00
			2	1.50	0.00	0.74	3.19	3.62
		2	1	4.18	0.00	0.00	14.57	19.35
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.74	0.00	0.00	1.79	2.73
			2	4.55	0.00	2.50	10.90	13.59
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

08:45 - 09:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	3.46	0.08	3.35	3.95	5.00
			2	2.49	0.00	2.42	3.82	3.96
	Exit	2	1	33.20	0.00	24.67	82.13	93.35
2	Entry	1	1	1.69	0.00	0.86	3.49	3.76
			2	1.05	0.00	0.23	2.41	3.05
		2	1	0.58	0.00	0.00	0.81	3.84
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.46	0.00	0.00	0.97	1.93
			2	2.28	0.00	1.10	4.86	7.35
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

09:00 - 09:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.65	0.00	0.80	3.54	3.82
			2	1.14	0.00	0.31	2.86	3.53
	Exit	2	1	2.41	0.00	0.00	2.85	14.35
2	Entry	1	1	0.95	0.00	0.10	2.26	2.88
			2	0.61	0.00	0.00	1.46	1.91
		2	1	0.04	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.34	0.00	0.00	0.98	1.60
			2	1.53	0.00	0.25	3.73	5.34
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	147	37	760	512	0.287	150	147	0.0	0.5	14.503	B
				3	3	0.78	352	243	0.013	3	3	0.0	0.0	14.488	B
				4	173	43	760	512	0.338	175	174	0.0	0.6	11.313	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	263	66	760	512	0.513	265	253	0.0	0.9	10.636	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	147	37	-	-	-	147	149	0.0	0.0	1.357	A
				3	3	0.76	-	-	-	3	3	0.0	0.0	3.315	A
				4	436	109	-	-	-	436	432	0.0	0.1	0.835	A
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	232	58	1079	752	0.308	232	228	0.0	0.7	8.735	A
				4	166	41	1079	750	0.221	166	171	0.0	0.3	6.238	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	269	67	1079	753	0.357	269	264	0.0	0.5	6.403	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	232	58	-	-	-	232	231	0.0	0.1	0.411	A
				4	435	109	-	-	-	435	438	0.0	0.0	0.196	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	280	70	1190	1190	0.236	281	273	0.0	0.3	4.005	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	106	27	1190	1190	0.089	107	107	0.0	0.1	3.944	A
				3	610	153	1190	1190	0.513	609	614	0.0	1.5	8.012	A
				4	0.90	0.23	199	199	0.005	0.90	0.83	0.0	0.0	5.542	A

08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	179	45	760	456	0.391	180	176	0.5	1.2	22.533	C
				3	3	0.76	338	206	0.015	3	3	0.0	0.0	24.270	C
				4	204	51	760	457	0.447	205	202	0.6	1.2	19.100	C
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	317	79	760	456	0.695	319	316	0.9	1.6	18.043	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	180	45	-	-	-	179	179	0.0	0.7	9.826	A
				3	3	0.78	-	-	-	3	3	0.0	0.0	7.717	A
				4	524	131	-	-	-	522	524	0.1	1.8	8.282	A
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	272	68	1079	680	0.400	273	277	0.7	1.0	12.576	B
				4	189	47	1079	680	0.278	189	190	0.3	0.5	9.050	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	332	83	1079	679	0.488	330	329	0.5	0.9	8.714	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	272	68	-	-	-	272	278	0.1	0.2	1.961	A
				4	522	131	-	-	-	521	521	0.0	0.2	1.388	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	357	89	1190	1190	0.300	357	362	0.3	0.5	4.442	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	105	26	1190	1190	0.089	105	104	0.1	0.1	4.519	A
				3	746	186	1190	1190	0.627	752	750	1.5	2.3	10.520	B
				4	0.97	0.24	165	165	0.006	1	0.69	0.0	0.0	12.133	B

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	194	49	760	394	0.494	194	189	1.2	1.9	33.265	D
				3	5	1	470	251	0.019	5	4	0.0	0.0	31.778	D
				4	201	50	760	394	0.510	199	204	1.2	1.9	30.502	D
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	344	86	760	394	0.873	342	345	1.6	3.0	27.513	D
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	218	55	-	-	-	194	192	0.7	8.2	87.599	F
				3	5	1	-	-	-	5	4	0.0	0.1	86.754	F
				4	642	161	-	-	-	545	558	1.8	23.8	84.365	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	334	83	1079	627	0.532	335	330	1.0	1.6	17.795	C
				4	204	51	1079	628	0.325	204	207	0.5	0.9	14.270	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	424	106	1079	627	0.676	422	419	0.9	1.7	12.576	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	334	84	-	-	-	334	333	0.2	1.3	11.062	B
				4	631	158	-	-	-	628	631	0.2	2.4	9.647	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	466	117	1190	1190	0.392	469	471	0.5	0.5	5.204	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	93	23	1190	1190	0.078	93	93	0.1	0.1	5.157	A
				3	904	226	1190	1190	0.760	904	903	2.3	4.0	15.662	C
				4	1	0.26	310	310	0.003	1	1	0.0	0.0	12.455	B

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	191	48	760	396	0.481	193	192	1.9	1.9	35.948	E
				3	4	0.99	413	213	0.019	4	4	0.0	0.0	35.725	E
				4	198	50	760	395	0.502	196	198	1.9	2.1	35.295	E
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	350	88	760	395	0.887	352	350	3.0	2.9	29.671	D
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	218	55	-	-	-	191	192	8.2	15.7	235.908	F
				3	5	1	-	-	-	4	3	0.1	0.4	257.810	F
				4	638	160	-	-	-	548	548	23.8	45.3	232.250	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	346	86	1079	627	0.552	346	339	1.6	1.9	18.916	C
				4	211	53	1079	628	0.336	211	212	0.9	0.9	15.528	C
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	430	108	1079	627	0.687	433	433	1.7	1.5	13.446	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	339	85	-	-	-	346	340	1.3	1.5	19.083	C
				4	636	159	-	-	-	642	644	2.4	2.7	17.725	C
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	474	119	1190	1190	0.399	474	472	0.5	0.7	5.112	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	90	22	1190	1190	0.076	90	90	0.1	0.1	5.154	A
				3	908	227	1190	1190	0.763	902	902	4.0	4.4	16.369	C
				4	0.76	0.19	275	275	0.003	0.83	1	0.0	0.0	17.316	C

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	211	53	760	461	0.457	213	211	1.9	1.6	30.860	D
				3	4	0.88	448	271	0.013	4	4	0.0	0.0	31.148	D
				4	228	57	760	461	0.493	228	225	2.1	1.8	29.379	D
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	393	98	760	461	0.852	396	390	2.9	2.5	25.117	D
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	186	46	-	-	-	211	210	15.7	9.1	215.036	F
				3	3	0.75	-	-	-	4	4	0.4	0.1	241.182	F
				4	530	132	-	-	-	620	612	45.3	24.0	209.524	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	274	68	1079	652	0.420	271	283	1.9	1.2	15.169	C
				4	181	45	1079	652	0.278	181	188	0.9	0.5	11.218	B
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	329	82	1079	651	0.506	328	344	1.5	1.0	10.545	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	274	69	-	-	-	274	280	1.5	0.2	4.970	A
				4	512	128	-	-	-	510	529	2.7	0.4	3.936	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	357	89	1190	1190	0.300	356	358	0.7	0.5	4.420	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	100	25	1183	1183	0.085	100	101	0.1	0.1	4.414	A
				3	743	186	1190	1190	0.624	744	747	4.4	2.2	10.890	B
				4	0.76	0.19	254	254	0.003	0.90	1	0.0	0.0	8.887	A

09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	163	41	760	505	0.322	165	189	1.6	0.9	22.716	C
				3	3	0.69	417	275	0.010	3	3	0.0	0.0	23.319	C
				4	190	47	760	506	0.375	192	206	1.8	0.8	19.794	C
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	287	72	760	506	0.568	290	332	2.5	1.1	18.259	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	150	38	-	-	-	163	186	9.1	0.7	58.147	F
				3	3	0.64	-	-	-	3	3	0.1	0.0	43.937	E
				4	438	109	-	-	-	477	528	24.0	1.7	55.613	F
2	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	230	58	1079	731	0.315	232	235	1.2	0.6	10.882	B
				4	167	42	1079	730	0.229	167	168	0.5	0.4	7.967	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	269	67	1079	731	0.367	268	277	1.0	0.6	7.829	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	230	58	-	-	-	230	233	0.2	0.0	0.998	A
				4	436	109	-	-	-	436	443	0.4	0.0	0.660	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	284	71	1190	1190	0.239	284	279	0.5	0.3	4.047	A
				3	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	104	26	1190	1190	0.088	105	103	0.1	0.1	3.980	A
				3	632	158	1190	1190	0.531	632	631	2.2	1.4	8.243	A
				4	0.69	0.17	193	193	0.004	0.69	0.81	0.0	0.0	8.461	A