

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.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 08:08:02

»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	11.8	49.60	
Arm 2		9.7	37.23	
Arm 4		5.6	12.33	
	[Lane Simulation] - 2030 - RF Do Minimum + Development			
Arm 1	D3	13.0	51.52	
Arm 2		12.3	46.09	
Arm 4		5.1	12.40	

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.

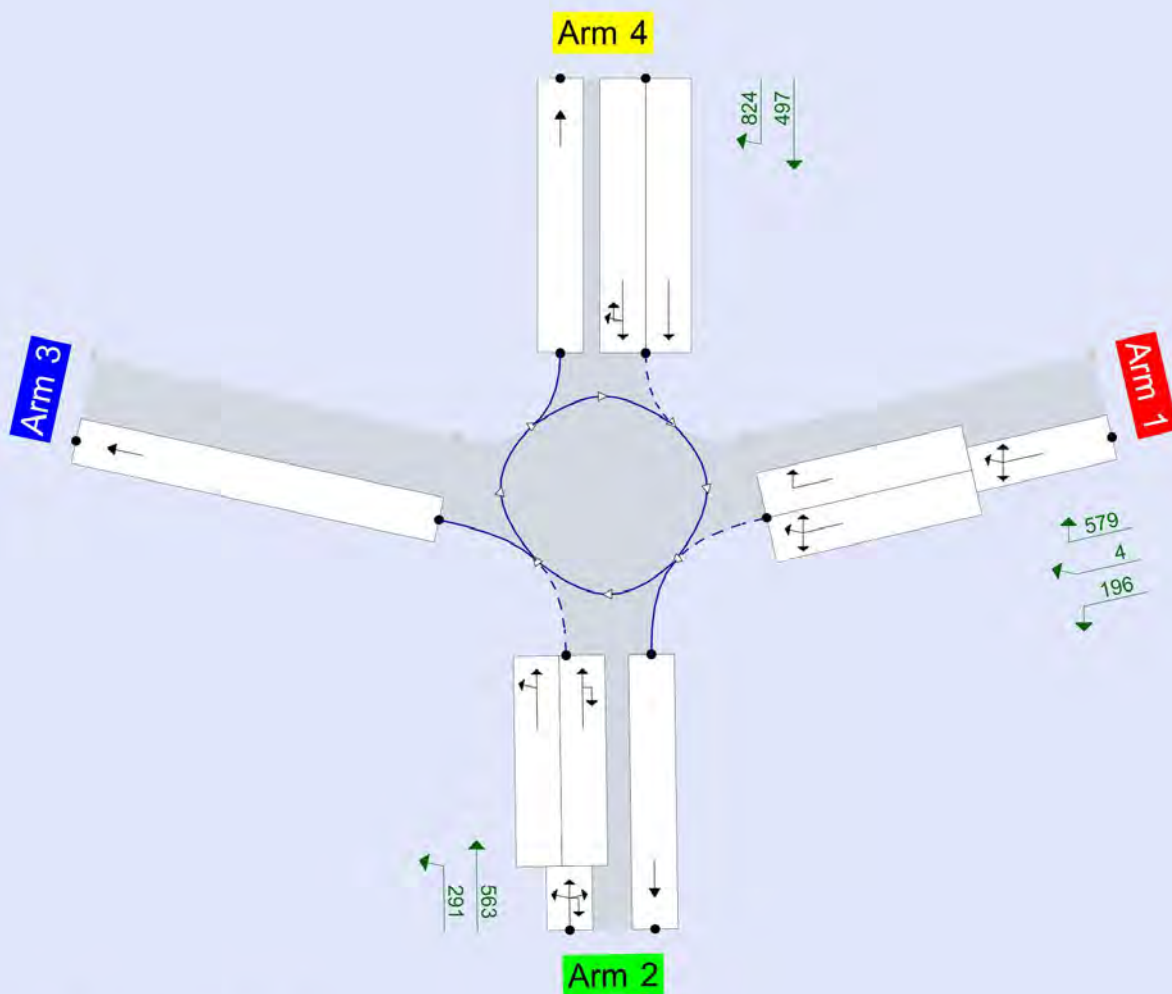
File summary

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	✓			111271175	276	10.68

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	29.36	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	29.36	D

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	5.00	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	0.548	1805
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	0.274	903
			2	0.274	903
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	49.60	11.8	35.2	E	715	1073
2	37.23	9.7	29.1	E	787	1180
3						
4	12.33	5.6	14.7	B	1214	1821

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	589	147	1003	590	579	0	0.0	1.6	8.856	A
2	638	159	1061	640	636	531	0.0	1.4	7.504	A
3			0			849				
4	1002	250	0	1003	997	853	0.0	1.8	6.403	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	695	174	1189	701	704	0	1.6	2.6	13.566	B
2	779	195	1260	778	770	629	1.4	2.6	11.218	B
3			0			1009				
4	1191	298	0	1189	1193	1029	1.8	2.9	7.982	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	862	215	1452	851	835	0	2.6	10.7	34.709	D
2	949	237	1547	937	929	756	2.6	8.8	26.832	D
3			0			1227				
4	1447	362	0	1452	1454	1258	2.9	4.8	12.084	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	862	215	1460	868	863	0	10.7	11.8	49.599	E
2	943	236	1568	946	941	760	8.8	9.7	37.232	E
3			0			1241				
4	1462	366	0	1460	1462	1273	4.8	5.6	12.334	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	708	177	1177	715	747	0	11.8	2.8	24.278	C
2	772	193	1276	773	796	617	9.7	2.7	17.324	C
3			0			1010				
4	1174	294	0	1177	1203	1038	5.6	2.6	8.613	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	577	144	1009	578	598	0	2.8	1.6	10.335	B
2	639	160	1065	640	659	522	2.7	1.5	8.801	A
3			0			852				
4	1008	252	0	1009	1009	852	2.6	1.8	6.657	A

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

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.58	0.00	0.63	3.71	4.84
2	1.45	0.00	0.51	3.28	4.04
3					
4	1.80	0.00	0.72	3.92	5.55

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.59	0.00	1.44	5.22	7.10
2	2.56	0.00	1.37	5.49	7.04
3					
4	2.93	0.00	1.64	6.34	8.44

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	10.66	0.13	6.86	23.13	32.60
2	8.78	0.00	5.50	21.07	26.10
3					
4	4.83	0.00	3.26	10.68	13.05

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	11.82	-0.01	8.10	26.80	35.20
2	9.71	0.00	6.00	25.08	29.10
3					
4	5.61	0.00	3.63	11.60	14.73

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.82	0.00	1.45	6.31	8.44
2	2.71	0.00	1.40	5.82	8.64
3					
4	2.62	0.00	1.48	5.74	7.47

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.58	0.00	0.61	3.37	4.89
2	1.48	0.00	0.45	3.04	4.53
3					
4	1.82	0.00	0.60	4.46	6.04

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	333	628	0.530	333	330	0.0	1.0	9.067	A
			2	4	256	628	0.408	256	248	0.0	0.6	7.993	A
		2	1	(2, 3, 4)	589			589	585	0.0	0.1	0.249	A
2	Entry	1	1	3, 4	387	749	0.516	388	386	0.0	0.9	7.639	A
			2	2, 4	251	749	0.336	252	250	0.0	0.5	6.331	A
		2	1	(1, 2, 3, 4)	638			638	641	0.0	0.0	0.374	A
	Exit	1	1		531			531	521	0.0	0.0	0.000	A
3	Exit	1	1		849			849	842	0.0	0.0	0.000	A
4	Entry	1	1	2	278	1190	0.233	278	272	0.0	0.3	3.982	A
			2	2, 3, 4	724	1190	0.609	724	725	0.0	1.5	7.307	A
	Exit	1	1		853			853	848	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	387	577	0.671	389	392	1.0	1.4	12.810	B
			2	4	310	577	0.537	312	312	0.6	0.9	11.029	B
		2	1	(2, 3, 4)	695			697	708	0.1	0.3	1.535	A
2	Entry	1	1	3, 4	456	687	0.664	456	448	0.9	1.5	10.911	B
			2	2, 4	323	687	0.470	322	321	0.5	0.8	8.599	A
		2	1	(1, 2, 3, 4)	779			779	773	0.0	0.3	1.266	A
	Exit	1	1		629			629	627	0.0	0.0	0.000	A
3	Exit	1	1		1009			1009	1009	0.0	0.0	0.000	A
4	Entry	1	1	2	345	1190	0.290	345	346	0.3	0.4	4.332	A
			2	2, 3, 4	845	1190	0.710	843	847	1.5	2.5	9.471	A
	Exit	1	1		1029			1029	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	449	505	0.889	449	445	1.4	3.0	21.365	C
			2	4	400	505	0.793	402	390	0.9	2.1	17.598	C
		2	1	(2, 3, 4)	862			849	846	0.3	5.6	14.938	B
2	Entry	1	1	3, 4	524	598	0.877	522	521	1.5	2.8	17.056	C
			2	2, 4	418	598	0.699	416	407	0.8	1.7	13.307	B
		2	1	(1, 2, 3, 4)	949			942	938	0.3	4.3	11.313	B
	Exit	1	1		756			756	757	0.0	0.0	0.000	A
3	Exit	1	1		1227			1227	1222	0.0	0.0	0.000	A
4	Entry	1	1	2	459	1190	0.386	458	461	0.4	0.7	5.220	A
			2	2, 3, 4	988	1190	0.830	994	993	2.5	4.1	15.237	C
	Exit	1	1		1258			1258	1238	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	461	503	0.917	462	461	3.0	3.0	23.109	C
			2	4	407	503	0.809	406	401	2.1	2.2	19.437	C
		2	1	(2, 3, 4)	862			868	864	5.6	6.6	28.206	D
2	Entry	1	1	3, 4	526	591	0.890	527	526	2.8	2.8	18.816	C
			2	2, 4	420	591	0.710	419	416	1.7	1.8	14.399	B
		2	1	(1, 2, 3, 4)	943			946	942	4.3	5.1	20.405	C
	Exit	1	1		760			760	765	0.0	0.0	0.000	A
3	Exit	1	1		1241			1241	1238	0.0	0.0	0.000	A
4	Entry	1	1	2	464	1190	0.390	465	464	0.7	0.7	5.149	A
			2	2, 3, 4	999	1190	0.839	995	998	4.1	5.0	15.658	C
	Exit	1	1		1273			1273	1263	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	390	580	0.671	393	407	3.0	1.4	16.467	C
			2	4	321	580	0.554	322	340	2.2	1.1	13.847	B
		2	1	(2, 3, 4)	708			711	736	6.6	0.3	9.359	A
2	Entry	1	1	3, 4	451	682	0.662	452	461	2.8	1.4	13.332	B
			2	2, 4	321	682	0.471	321	336	1.8	0.9	10.463	B
		2	1	(1, 2, 3, 4)	772			773	787	5.1	0.4	5.380	A
	Exit	1	1		617			617	634	0.0	0.0	0.000	A
3	Exit	1	1		1010			1010	1034	0.0	0.0	0.000	A
4	Entry	1	1	2	337	1190	0.284	337	350	0.7	0.5	4.372	A
			2	2, 3, 4	837	1190	0.703	840	853	5.0	2.2	10.374	B
	Exit	1	1		1038			1038	1078	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	328	626	0.524	329	337	1.4	0.9	10.457	B
			2	4	248	626	0.397	249	260	1.1	0.6	8.885	A
		2	1	(2, 3, 4)	577			577	594	0.3	0.1	0.592	A
2	Entry	1	1	3, 4	384	748	0.513	386	395	1.4	0.9	8.937	A
			2	2, 4	255	748	0.340	254	264	0.9	0.5	7.305	A
		2	1	(1, 2, 3, 4)	639			638	655	0.4	0.1	0.537	A
	Exit	1	1		522			522	529	0.0	0.0	0.000	A
3	Exit	1	1		852			852	859	0.0	0.0	0.000	A
4	Entry	1	1	2	273	1190	0.229	273	276	0.5	0.3	4.000	A
			2	2, 3, 4	735	1190	0.618	735	733	2.2	1.5	7.663	A
	Exit	1	1		852			852	878	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	0.95	0.00	0.03	2.30	3.09
			2	0.57	0.00	0.00	1.41	1.90
		2	1	0.07	0.00	0.00	0.00	0.00
2	Entry	1	1	0.87	0.00	0.00	2.07	2.72
			2	0.54	0.00	0.00	1.32	1.80
		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	0.31	0.00	0.00	0.81	1.39
			2	1.49	0.00	0.50	3.31	5.04
	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	1.42	0.00	0.68	3.02	3.59
			2	0.92	0.00	0.04	1.99	2.88
		2	1	0.25	0.00	0.00	0.00	0.70
2	Entry	1	1	1.45	0.00	0.73	4.00	4.00
			2	0.80	0.00	0.00	1.94	2.94
		2	1	0.30	0.00	0.00	0.00	1.84
	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	0.43	0.00	0.00	1.18	1.76
			2	2.50	0.00	1.34	5.43	8.04
	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	2.97	0.00	3.07	3.90	5.00
			2	2.10	0.00	1.64	3.65	3.83
	2	2	1	5.58	0.00	0.00	16.60	25.20
2	Entry	1	1	2.83	0.00	2.83	3.88	3.99
			2	1.70	0.00	0.98	3.49	3.80
		2	1	4.25	0.00	0.00	13.68	20.10
	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	0.70	0.00	0.00	1.93	2.59
			2	4.12	0.00	2.31	9.07	11.84
	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	3.04	0.00	3.12	3.92	5.00
			2	2.23	0.00	1.79	3.74	3.91
	2	2	1	6.56	0.00	1.00	19.93	27.60
2	Entry	1	1	2.81	0.00	2.80	3.88	5.00
			2	1.80	0.00	1.11	3.62	3.87
		2	1	5.09	0.00	0.00	18.13	24.07
	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	0.65	0.00	0.00	1.66	2.15
			2	4.96	0.00	3.04	10.73	13.20
	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	1.41	0.00	0.61	3.19	3.61
			2	1.06	0.00	0.24	2.50	4.00
	2	2	1	0.34	0.00	0.00	0.00	1.73
2	Entry	1	1	1.42	0.00	0.64	4.00	4.00
			2	0.91	0.00	0.06	1.98	4.00
		2	1	0.38	0.00	0.00	0.00	3.24
	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	1.16	1.82
			2	2.16	0.00	1.08	4.49	6.87
	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	0.91	0.00	0.09	2.03	2.95
			2	0.61	0.00	0.00	1.46	1.97
	2	2	1	0.07	0.00	0.00	0.00	0.00
2	Entry	1	1	0.87	0.00	0.00	2.08	2.84
			2	0.54	0.00	0.00	1.45	1.86
		2	1	0.08	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	0.30	0.00	0.00	0.77	1.28
			2	1.52	0.00	0.33	3.85	5.17
	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	150	37	903	628	0.239	150	145	0.0	0.5	10.564	B
				3	4	0.88	455	329	0.011	3	3	0.0	0.0	11.117	B
				4	179	45	903	629	0.286	179	182	0.0	0.5	7.835	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	256	64	903	628	0.408	256	248	0.0	0.6	7.993	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	150	38	-	-	-	150	147	0.0	0.0	0.378	A
				3	4	0.89	-	-	-	4	3	0.0	0.0	0.540	A
				4	436	109	-	-	-	435	434	0.0	0.0	0.203	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	223	56	1079	749	0.297	224	218	0.0	0.6	8.728	A
				4	164	41	1079	750	0.219	164	168	0.0	0.3	6.220	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	251	63	1079	748	0.336	252	250	0.0	0.5	6.331	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	222	56	-	-	-	223	221	0.0	0.0	0.518	A
				4	415	104	-	-	-	416	421	0.0	0.0	0.298	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	278	69	1190	1190	0.233	278	272	0.0	0.3	3.982	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	102	25	1190	1190	0.086	102	103	0.0	0.1	3.944	A
				3	622	155	1190	1190	0.523	622	621	0.0	1.4	7.861	A
				4	0.57	0.14	147	147	0.004	0.57	0.55	0.0	0.0	8.541	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	177	44	903	577	0.306	177	178	0.5	0.8	14.822	B
				3	4	1	504	325	0.013	4	4	0.0	0.0	13.900	B
				4	206	52	903	577	0.357	207	210	0.5	0.6	11.091	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	310	77	903	577	0.537	312	312	0.6	0.9	11.029	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	176	44	-	-	-	177	179	0.0	0.1	2.087	A
				3	4	1	-	-	-	4	4	0.0	0.0	1.688	A
				4	514	129	-	-	-	516	525	0.0	0.1	1.346	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	267	67	1079	687	0.390	268	262	0.6	0.9	12.318	B
				4	189	47	1079	686	0.275	187	186	0.3	0.5	8.918	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	323	81	1079	687	0.470	322	321	0.5	0.8	8.599	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	267	67	-	-	-	267	264	0.0	0.1	1.605	A
				4	512	128	-	-	-	511	509	0.0	0.2	1.089	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	345	86	1190	1190	0.290	345	346	0.3	0.4	4.332	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	107	27	1190	1190	0.090	107	103	0.1	0.2	4.322	A
				3	737	184	1190	1190	0.620	736	743	1.4	2.3	10.176	B
				4	0.74	0.18	220	220	0.003	0.78	0.99	0.0	0.0	11.984	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	211	53	903	504	0.419	211	209	0.8	1.5	23.083	C
				3	4	1	579	330	0.013	5	4	0.0	0.0	22.832	C
				4	233	58	903	505	0.463	233	232	0.6	1.5	19.785	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	400	100	903	504	0.794	402	390	0.9	2.1	17.598	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	215	54	-	-	-	211	212	0.1	1.5	16.447	C
				3	4	1	-	-	-	4	4	0.0	0.0	14.113	B
				4	642	161	-	-	-	634	630	0.1	4.0	14.435	B
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	318	79	1079	598	0.531	316	313	0.9	1.8	18.522	C
				4	206	52	1079	597	0.345	205	208	0.5	1.1	14.843	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	418	104	1079	597	0.700	416	407	0.8	1.7	13.307	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	-	-	-	318	316	0.1	1.6	12.404	B
				4	630	157	-	-	-	624	622	0.2	2.7	10.753	B
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	459	115	1190	1190	0.386	458	461	0.4	0.7	5.220	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	87	22	1190	1190	0.073	87	88	0.2	0.2	5.354	A
				3	900	225	1190	1190	0.756	906	905	2.3	3.9	16.179	C
				4	1	0.27	280	280	0.004	1	1	0.0	0.0	17.958	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	213	53	903	503	0.423	213	216	1.5	1.5	24.714	C
				3	4	1	585	330	0.013	4	4	0.0	0.0	22.804	C
				4	244	61	903	503	0.485	244	242	1.5	1.5	21.679	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	407	102	903	503	0.808	406	401	2.1	2.2	19.437	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	212	53	-	-	-	213	216	1.5	1.7	30.124	D
				3	5	1	-	-	-	4	4	0.0	0.0	24.673	C
				4	646	161	-	-	-	651	644	4.0	4.8	27.588	D
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	324	81	1079	591	0.548	325	323	1.8	1.8	20.115	C
				4	202	51	1079	591	0.342	203	203	1.1	1.0	16.745	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	420	105	1079	591	0.709	419	416	1.7	1.8	14.399	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	324	81	-	-	-	324	323	1.6	1.9	21.763	C
				4	619	155	-	-	-	622	619	2.7	3.2	19.698	C
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	464	116	1190	1190	0.390	465	464	0.7	0.7	5.149	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	82	20	1190	1190	0.069	82	86	0.2	0.1	5.107	A
				3	916	229	1190	1190	0.769	912	911	3.9	4.8	16.649	C
				4	1	0.33	302	302	0.004	1	1	0.0	0.0	14.962	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	175	44	903	581	0.301	177	186	1.5	0.7	18.327	C
				3	3	0.85	500	311	0.011	3	4	0.0	0.0	18.553	C
				4	211	53	903	581	0.364	212	218	1.5	0.7	14.854	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	321	80	903	581	0.553	322	340	2.2	1.1	13.847	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	174	44	-	-	-	175	182	1.7	0.1	10.123	B
				3	3	0.83	-	-	-	3	4	0.0	0.0	12.377	B
				4	531	133	-	-	-	533	550	4.8	0.2	9.085	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	268	67	1079	683	0.392	270	277	1.8	0.9	14.709	B
				4	184	46	1079	681	0.269	183	184	1.0	0.6	11.269	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	321	80	1079	682	0.471	321	336	1.8	0.9	10.463	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	267	67	-	-	-	268	273	1.9	0.1	5.885	A
				4	505	126	-	-	-	505	515	3.2	0.3	5.113	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	337	84	1190	1190	0.284	337	350	0.7	0.5	4.372	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	103	26	1190	1190	0.086	102	98	0.1	0.1	4.343	A
				3	733	183	1190	1190	0.616	737	754	4.8	2.0	11.173	B
				4	0.70	0.17	211	211	0.003	0.70	0.86	0.0	0.0	13.118	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	143	36	903	628	0.227	143	151	0.7	0.4	12.145	B
				3	3	0.82	471	326	0.010	3	3	0.0	0.0	12.799	B
				4	183	46	903	627	0.291	183	183	0.7	0.4	9.032	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	248	62	903	627	0.396	249	260	1.1	0.6	8.885	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	143	36	-	-	-	143	150	0.1	0.0	0.856	A
				3	3	0.82	-	-	-	3	3	0.0	0.0	0.610	A
				4	431	108	-	-	-	431	441	0.2	0.0	0.502	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	220	55	1079	748	0.295	221	226	0.9	0.5	10.084	B
				4	164	41	1079	748	0.219	165	169	0.6	0.3	7.405	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	748	0.340	254	264	0.9	0.5	7.305	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	220	55	-	-	-	220	225	0.1	0.0	0.726	A
				4	419	105	-	-	-	418	431	0.3	0.1	0.438	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	273	68	1190	1190	0.229	273	276	0.5	0.3	4.000	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	106	102	0.1	0.1	4.000	A
				3	628	157	1190	1190	0.528	628	630	2.0	1.4	8.258	A
				4	1	0.29	211	211	0.006	1	1	0.0	0.0	9.088	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	32.54	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	32.54	D

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				
From		1	2	3	4
	1	0	199	4	579
	2	0	0	307	575
	3	0	0	0	0
	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
From	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
From	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	51.52	13.0	37.2	F	724	1085
2	46.09	12.3	38.1	E	811	1217
3						
4	12.40	5.1	14.6	B	1228	1842

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	597	149	1003	598	592	0	0.0	1.5	8.687	A
2	667	167	1077	666	660	524	0.0	1.7	7.559	A
3			0			866				
4	1003	251	0	1003	1006	877	0.0	1.9	6.375	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	714	179	1202	715	708	0	1.5	2.5	13.240	B
2	807	202	1276	803	798	641	1.7	2.8	11.910	B
3			0			1018				
4	1202	300	0	1202	1202	1062	1.9	2.9	7.926	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	861	215	1483	841	833	0	2.5	10.8	34.615	D
2	966	241	1540	952	945	784	2.8	11.5	31.880	D
3			0			1251				
4	1480	370	0	1483	1468	1240	2.9	5.1	12.396	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	871	218	1477	869	860	0	10.8	13.0	51.518	F
2	971	243	1567	975	975	778	11.5	12.3	46.085	E
3			0			1256				
4	1481	370	0	1477	1479	1286	5.1	5.0	12.369	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	701	175	1199	711	750	0	13.0	2.7	24.770	C
2	796	199	1269	799	838	642	12.3	2.9	22.690	C
3			0			1014				
4	1200	300	0	1199	1216	1054	5.0	2.9	8.412	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	597	149	998	596	604	0	2.7	1.7	10.478	B
2	662	166	1070	665	678	524	2.9	1.4	8.755	A
3			0			854				
4	1001	250	0	998	1010	882	2.9	2.1	6.626	A

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

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.55	0.00	0.54	3.80	4.90
2	1.74	0.00	0.71	3.90	5.52
3					
4	1.89	0.00	0.76	4.12	5.37

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.54	0.00	1.28	5.65	8.03
2	2.83	0.00	1.67	6.17	8.35
3					
4	2.88	0.00	1.61	6.53	8.59

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	10.82	-0.01	6.78	25.10	33.03
2	11.47	0.00	7.50	27.20	34.30
3					
4	5.11	0.00	3.71	10.80	14.55

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	12.97	0.00	9.50	31.10	37.20
2	12.26	0.00	8.29	28.10	38.10
3					
4	5.03	0.00	3.69	10.42	13.05

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.70	0.00	1.26	6.05	8.37
2	2.90	0.00	1.26	6.40	9.05
3					
4	2.89	0.00	1.73	6.38	7.62

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.73	0.00	0.69	3.60	4.52
2	1.45	0.00	0.59	2.85	3.76
3					
4	2.10	0.00	1.08	4.55	6.05

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	336	628	0.535	335	337	0.0	0.9	9.037	A
			2	4	262	628	0.417	262	254	0.0	0.6	7.774	A
		2	1	(2, 3, 4)	597			597	598	0.0	0.0	0.191	A
2	Entry	1	1	3, 4	401	744	0.539	401	397	0.0	1.1	7.827	A
			2	2, 4	265	744	0.357	265	262	0.0	0.5	6.229	A
		2	1	(1, 2, 3, 4)	667			666	666	0.0	0.1	0.359	A
	Exit	1	1		524			524	533	0.0	0.0	0.000	A
3	Exit	1	1		866			866	853	0.0	0.0	0.000	A
4	Entry	1	1	2	267	1190	0.224	266	275	0.0	0.3	3.959	A
			2	2, 3, 4	736	1190	0.619	737	731	0.0	1.6	7.278	A
	Exit	1	1		877			877	871	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	397	573	0.692	398	393	0.9	1.4	12.846	B
			2	4	317	573	0.553	317	315	0.6	0.9	11.010	B
		2	1	(2, 3, 4)	714			714	711	0.0	0.2	1.202	A
2	Entry	1	1	3, 4	466	682	0.683	464	464	1.1	1.6	11.334	B
			2	2, 4	341	682	0.500	339	334	0.5	0.9	8.548	A
		2	1	(1, 2, 3, 4)	807			807	802	0.1	0.3	1.742	A
	Exit	1	1		641			641	639	0.0	0.0	0.000	A
3	Exit	1	1		1018			1018	1022	0.0	0.0	0.000	A
4	Entry	1	1	2	356	1190	0.299	357	354	0.3	0.4	4.408	A
			2	2, 3, 4	845	1190	0.710	845	848	1.6	2.5	9.388	A
	Exit	1	1		1062			1062	1047	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	457	497	0.920	451	448	1.4	3.1	20.585	C
			2	4	390	497	0.786	389	386	0.9	2.1	17.181	C
		2	1	(2, 3, 4)	861			847	844	0.2	5.7	15.407	C
2	Entry	1	1	3, 4	534	600	0.890	534	530	1.6	2.9	17.788	C
			2	2, 4	422	600	0.703	418	415	0.9	2.0	13.541	B
		2	1	(1, 2, 3, 4)	966			956	955	0.3	6.6	15.831	C
	Exit	1	1		784			784	771	0.0	0.0	0.000	A
3	Exit	1	1		1251			1251	1240	0.0	0.0	0.000	A
4	Entry	1	1	2	480	1190	0.404	483	475	0.4	0.5	5.290	A
			2	2, 3, 4	1000	1190	0.841	1000	993	2.5	4.6	15.772	C
	Exit	1	1		1240			1240	1236	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	470	498	0.944	470	460	3.1	3.0	23.711	C
			2	4	399	498	0.801	398	400	2.1	2.2	19.891	C
		2	1	(2, 3, 4)	871			869	861	5.7	7.7	29.610	D
2	Entry	1	1	3, 4	539	591	0.911	540	542	2.9	3.0	19.755	C
			2	2, 4	435	591	0.735	435	433	2.0	1.9	14.960	B
		2	1	(1, 2, 3, 4)	971			974	975	6.6	7.4	28.437	D
	Exit	1	1		778			778	780	0.0	0.0	0.000	A
3	Exit	1	1		1256			1256	1259	0.0	0.0	0.000	A
4	Entry	1	1	2	467	1190	0.393	467	475	0.5	0.7	5.151	A
			2	2, 3, 4	1014	1190	0.852	1010	1004	4.6	4.3	15.793	C
	Exit	1	1		1286			1286	1274	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	395	574	0.687	398	414	3.0	1.4	15.964	C
			2	4	314	574	0.546	314	336	2.2	1.0	13.664	B
		2	1	(2, 3, 4)	701			708	739	7.7	0.3	10.253	B
2	Entry	1	1	3, 4	462	684	0.675	462	481	3.0	1.5	13.931	B
			2	2, 4	338	684	0.494	337	357	1.9	0.9	10.970	B
		2	1	(1, 2, 3, 4)	796			799	828	7.4	0.5	10.319	B
	Exit	1	1		642			642	650	0.0	0.0	0.000	A
3	Exit	1	1		1014			1014	1050	0.0	0.0	0.000	A
4	Entry	1	1	2	354	1190	0.297	352	355	0.7	0.5	4.531	A
			2	2, 3, 4	846	1190	0.711	847	861	4.3	2.4	10.027	B
	Exit	1	1		1054			1054	1105	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	339	629	0.538	338	341	1.4	1.0	10.562	B
			2	4	258	629	0.410	258	263	1.0	0.6	8.955	A
		2	1	(2, 3, 4)	597			597	601	0.3	0.1	0.633	A
2	Entry	1	1	3, 4	393	746	0.526	394	406	1.5	0.9	8.839	A
			2	2, 4	270	746	0.361	271	272	0.9	0.4	7.118	A
		2	1	(1, 2, 3, 4)	662			662	674	0.5	0.1	0.634	A
	Exit	1	1		524			524	535	0.0	0.0	0.000	A
3	Exit	1	1		854			854	865	0.0	0.0	0.000	A
4	Entry	1	1	2	275	1190	0.231	275	281	0.5	0.4	4.033	A
			2	2, 3, 4	725	1190	0.610	723	729	2.4	1.7	7.628	A
	Exit	1	1		882			882	891	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	0.92	0.00	0.02	2.23	2.94
			2	0.61	0.00	0.00	1.51	2.11
		2	1	0.02	0.00	0.00	0.00	0.00
2	Entry	1	1	1.08	0.00	0.22	2.75	3.51
			2	0.52	0.00	0.00	1.15	1.81
		2	1	0.14	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	0.32	0.00	0.00	0.91	1.62
			2	1.57	0.00	0.53	3.51	4.70
	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	1.35	0.00	0.58	2.96	3.54
			2	0.95	0.00	0.12	2.29	3.19
		2	1	0.24	0.00	0.00	0.00	0.53
2	Entry	1	1	1.60	0.00	0.86	3.30	3.67
			2	0.88	0.00	0.04	1.94	2.74
		2	1	0.35	0.00	0.00	0.00	2.10
	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	0.42	0.00	0.00	1.09	1.79
			2	2.45	0.00	1.17	5.89	7.55
	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	3.05	0.00	3.04	3.92	5.00
			2	2.06	0.00	1.51	3.72	3.94
		2	1	5.72	0.00	0.00	17.20	28.55
2	Entry	1	1	2.93	0.00	3.12	3.91	5.00
			2	1.95	0.00	1.32	3.64	3.84
		2	1	6.59	0.00	0.88	21.20	28.15
	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	0.52	0.00	0.00	1.43	1.95
			2	4.59	0.00	3.00	10.07	13.55
	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	3.02	0.00	3.14	3.90	5.00
			2	2.21	0.00	1.86	3.75	3.92
		2	1	7.75	0.00	3.00	23.20	30.10
2	Entry	1	1	3.03	0.00	3.19	3.93	5.00
			2	1.85	0.00	1.16	3.63	3.85
		2	1	7.38	0.00	2.00	21.10	30.70
	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	0.70	0.00	0.00	1.80	2.68
			2	4.33	0.00	3.04	9.20	11.55
	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	1.38	0.00	0.53	3.16	3.66
			2	1.02	0.00	0.16	2.43	2.95
		2	1	0.31	0.00	0.00	0.00	1.10
2	Entry	1	1	1.47	0.00	0.65	3.33	3.78
			2	0.89	0.00	0.05	1.91	3.01
		2	1	0.54	0.00	0.00	0.00	3.05
	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	0.53	0.00	0.00	1.42	2.02
			2	2.35	0.00	1.21	6.02	6.78
	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	1.02	0.00	0.20	2.34	2.89
			2	0.62	0.00	0.00	1.53	1.92
		2	1	0.09	0.00	0.00	0.00	0.00
2	Entry	1	1	0.94	0.00	0.21	1.95	2.62
			2	0.44	0.00	0.00	1.10	1.58
		2	1	0.07	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	0.40	0.00	0.00	0.93	1.47
			2	1.70	0.00	0.62	3.62	5.53
	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	149	37	903	628	0.238	149	150	0.0	0.4	10.406	B
				3	3	0.85	456	335	0.010	3	3	0.0	0.0	11.402	B
				4	183	46	903	628	0.292	183	185	0.0	0.4	7.882	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	65	903	629	0.416	262	254	0.0	0.6	7.774	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	149	37	-	-	-	149	151	0.0	0.0	0.306	A
				3	3	0.85	-	-	-	3	3	0.0	0.0	0.101	A
				4	445	111	-	-	-	445	443	0.0	0.0	0.152	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	237	59	1079	744	0.319	235	228	0.0	0.7	8.925	A
				4	164	41	1079	743	0.221	165	169	0.0	0.3	6.339	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	265	66	1079	744	0.357	265	262	0.0	0.5	6.229	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	237	59	-	-	-	237	231	0.0	0.1	0.486	A
				4	430	107	-	-	-	430	435	0.0	0.1	0.292	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	267	67	1190	1190	0.224	266	275	0.0	0.3	3.959	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	0.092	109	109	0.0	0.1	3.962	A
				3	626	157	1190	1190	0.526	627	622	0.0	1.5	7.846	A
				4	0.97	0.24	186	186	0.005	0.97	0.87	0.0	0.0	10.364	B

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	178	45	903	574	0.311	177	179	0.4	0.8	14.755	B
				3	3	0.83	497	319	0.010	3	4	0.0	0.0	15.012	C
				4	215	54	903	575	0.375	217	211	0.4	0.6	11.173	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	317	79	903	574	0.553	317	315	0.6	0.9	11.010	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	178	45	-	-	-	178	180	0.0	0.1	1.623	A
				3	3	0.83	-	-	-	3	4	0.0	0.0	1.921	A
				4	532	133	-	-	-	532	528	0.0	0.2	1.052	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	279	70	1079	682	0.410	277	278	0.7	1.1	12.748	B
				4	187	47	1079	682	0.273	187	186	0.3	0.5	9.210	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	341	85	1079	682	0.500	339	334	0.5	0.9	8.548	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	279	70	-	-	-	279	279	0.1	0.1	2.080	A
				4	528	132	-	-	-	528	522	0.1	0.2	1.562	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	356	89	1190	1190	0.299	357	354	0.3	0.4	4.408	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	106	107	0.1	0.1	4.324	A
				3	738	184	1190	1190	0.620	737	740	1.5	2.4	10.110	B
				4	1	0.27	270	270	0.004	1	1	0.0	0.0	9.941	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	218	55	903	497	0.439	215	212	0.8	1.5	22.333	C
				3	4	1	574	321	0.013	4	5	0.0	0.0	21.983	C
				4	235	59	903	497	0.472	233	231	0.6	1.5	18.956	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	390	98	903	496	0.787	389	386	0.9	2.1	17.181	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	223	56	-	-	-	218	215	0.1	1.7	17.442	C
				3	4	1	-	-	-	4	5	0.0	0.0	17.254	C
				4	635	159	-	-	-	625	625	0.2	4.0	14.688	B
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	335	84	1079	601	0.557	334	326	1.1	2.0	19.203	C
				4	199	50	1079	602	0.330	199	204	0.5	1.0	15.517	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	422	105	1079	602	0.700	418	415	0.9	2.0	13.541	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	337	84	-	-	-	335	330	0.1	2.3	17.002	C
				4	629	157	-	-	-	621	625	0.2	4.3	15.214	C
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	480	120	1190	1190	0.404	483	475	0.4	0.5	5.290	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	85	21	1190	1190	0.072	86	83	0.1	0.1	5.370	A
				3	914	228	1190	1190	0.768	913	909	2.4	4.5	16.714	C
				4	0.79	0.20	180	180	0.004	0.67	0.73	0.0	0.0	17.965	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	220	55	903	499	0.442	220	219	1.5	1.5	24.897	C
				3	3	0.85	543	301	0.011	3	4	0.0	0.0	24.648	C
				4	247	62	903	499	0.494	247	237	1.5	1.5	22.594	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	399	100	903	498	0.801	398	400	2.1	2.2	19.891	C
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	222	55	-	-	-	220	219	1.7	2.1	31.610	D
				3	3	0.77	-	-	-	3	4	0.0	0.0	33.761	D
				4	646	162	-	-	-	646	638	4.0	5.6	28.897	D
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	333	83	1079	591	0.563	335	338	2.0	1.9	20.852	C
				4	206	51	1079	591	0.348	205	203	1.0	1.1	17.923	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	435	109	1079	592	0.735	435	433	2.0	1.9	14.960	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	332	83	-	-	-	333	338	2.3	2.6	29.770	D
				4	639	160	-	-	-	640	637	4.3	4.8	27.725	D
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	467	117	1190	1190	0.393	467	475	0.5	0.7	5.151	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	92	23	1190	1190	0.077	91	87	0.1	0.1	5.037	A
				3	921	230	1190	1190	0.774	917	917	4.5	4.2	16.811	C
				4	2	0.38	240	240	0.006	1	0.97	0.0	0.0	18.537	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	180	45	903	574	0.314	182	190	1.5	0.6	17.778	C
				3	4	1	529	327	0.013	4	4	0.0	0.0	17.217	C
				4	210	53	903	574	0.366	211	220	1.5	0.7	14.381	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	314	78	903	574	0.546	314	336	2.2	1.0	13.664	B
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	179	45	-	-	-	180	187	2.1	0.1	11.115	B
				3	4	1	-	-	-	4	4	0.0	0.0	11.036	B
				4	517	129	-	-	-	524	548	5.6	0.2	9.955	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	270	68	1079	684	0.395	271	290	1.9	1.0	15.272	C
				4	192	48	1079	682	0.281	191	191	1.1	0.5	11.888	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	338	84	1079	683	0.494	337	357	1.9	0.9	10.970	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	269	67	-	-	-	270	286	2.6	0.2	11.172	B
				4	527	132	-	-	-	529	541	4.8	0.3	9.868	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	354	88	1190	1190	0.297	352	355	0.7	0.5	4.531	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	108	27	1190	1190	0.091	108	104	0.1	0.1	4.392	A
				3	738	184	1190	1190	0.620	739	756	4.2	2.2	10.802	B
				4	0.73	0.18	228	228	0.003	0.79	0.97	0.0	0.0	12.315	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	149	37	903	629	0.236	148	152	0.6	0.5	12.235	B
				3	4	1	492	340	0.012	4	4	0.0	0.0	11.269	B
				4	186	46	903	631	0.295	185	186	0.7	0.5	9.198	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	258	65	903	630	0.409	258	263	1.0	0.6	8.955	A
		2	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	149	37	-	-	-	149	151	0.1	0.0	0.841	A
				3	4	1	-	-	-	4	4	0.0	0.0	0.663	A
				4	445	111	-	-	-	444	446	0.2	0.1	0.563	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	226	56	1079	746	0.303	227	236	1.0	0.6	9.965	A
				4	167	42	1079	746	0.224	167	170	0.5	0.4	7.279	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	270	67	1079	746	0.361	271	272	0.9	0.4	7.118	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	226	56	-	-	-	226	234	0.2	0.0	0.798	A
				4	437	109	-	-	-	437	440	0.3	0.0	0.546	A
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	275	69	1190	1190	0.231	275	281	0.5	0.4	4.033	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	1190	1190	0.084	100	102	0.1	0.1	4.075	A
				3	625	156	1190	1190	0.525	622	626	2.2	1.6	8.215	A
				4	0.67	0.17	186	186	0.004	0.61	0.75	0.0	0.0	6.975	A