

Junctions 11
ARCADY 11 - Roundabout Module
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Filename: 25103 - A11_A1307 Fourwentways Uncalibrated model (Future scenarios 2550 & 5000) (Lane Sim) LTS (LRG RDBT).j11
Path: C:\Users\SamuelSizer\KMC\KMC-Data - Documents\1_PROJECTS\25000\25103 - Grange Farm, Cambridge\Modelling\Fourwentways roundabout
Report generation date: 02/04/2026 10:08:34

- »D3 - | Base + Com Dev | AM
- »D4 - | Base + Com Dev | PM
- »D5 - | Base + Com Dev + CaPCAM (2550) | AM
- »D6 - | Base + Com Dev + CaPCAM (2550) | PM
- »D9 - | Base + Com Dev + CaPCAM (5000) | AM
- »D10 - | Base + Com Dev + CaPCAM (5000) | PM
- »D11 - | Base + Com Dev + CaPCAM (2550) 30/70 SPLIT | AM
- »D12 - | Base + Com Dev + CaPCAM (2550) 30/70 SPLIT | PM
- »D13 - | Base + Com Dev + CaPCAM (5000) 30/70 SPLIT | AM
- »D14 - | Base + Com Dev + CaPCAM (5000) 30/70 SPLIT | PM

Summary of junction performance

	AM							PM						
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS
[Lane Simulation] - - Base + Com Dev														
Arm 1	D3	2.5	10.43		B	11.00	B	D4	0.6	8.50		A	5.85	A
Arm 2		5.7	16.43		C				1.3	4.58		A		
Arm 3		2.6	9.21		A				1.8	5.70		A		
Arm 4		0.4	3.00		A				2.4	6.12		A		
[Lane Simulation] - - Base + Com Dev + CaPCAM (2550)														
Arm 1	D5	3.4	13.17		B	8.67	A	D6	2.1	17.60		C	9.95	A
Arm 2		1.7	6.58		A				0.7	3.62		A		
Arm 3		1.4	9.98		A				2.5	9.88		A		
Arm 4		0.5	3.38		A				4.2	10.63		B		
[Lane Simulation] - - Base + Com Dev + CaPCAM (5000)														
Arm 1	D9	4.6	17.47		C	12.01	B	D10	18.1	101.53		F	32.12	D
Arm 2		3.1	9.07		A				0.9	4.00		A		
Arm 3		2.5	17.02		C				6.4	20.91		C		
Arm 4		0.6	3.85		A				13.5	29.58		D		
[Lane Simulation] - - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT														
Arm 1	D11	5.9	18.03		C	10.47	B	D12	2.1	17.42		C	10.75	B
Arm 2		1.4	6.25		A				0.6	3.63		A		
Arm 3		2.1	10.95		B				2.3	9.76		A		
Arm 4		0.5	3.43		A				5.2	12.54		B		
[Lane Simulation] - - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT														
Arm 1	D13	10.3	33.09		D	17.17	C	D14	12.5	79.91		F	37.60	E
Arm 2		2.5	8.35		A				0.8	3.89		A		
Arm 3		3.6	17.78		C				8.6	27.86		D		
Arm 4		0.9	3.87		A				22.1	46.07		E		

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.

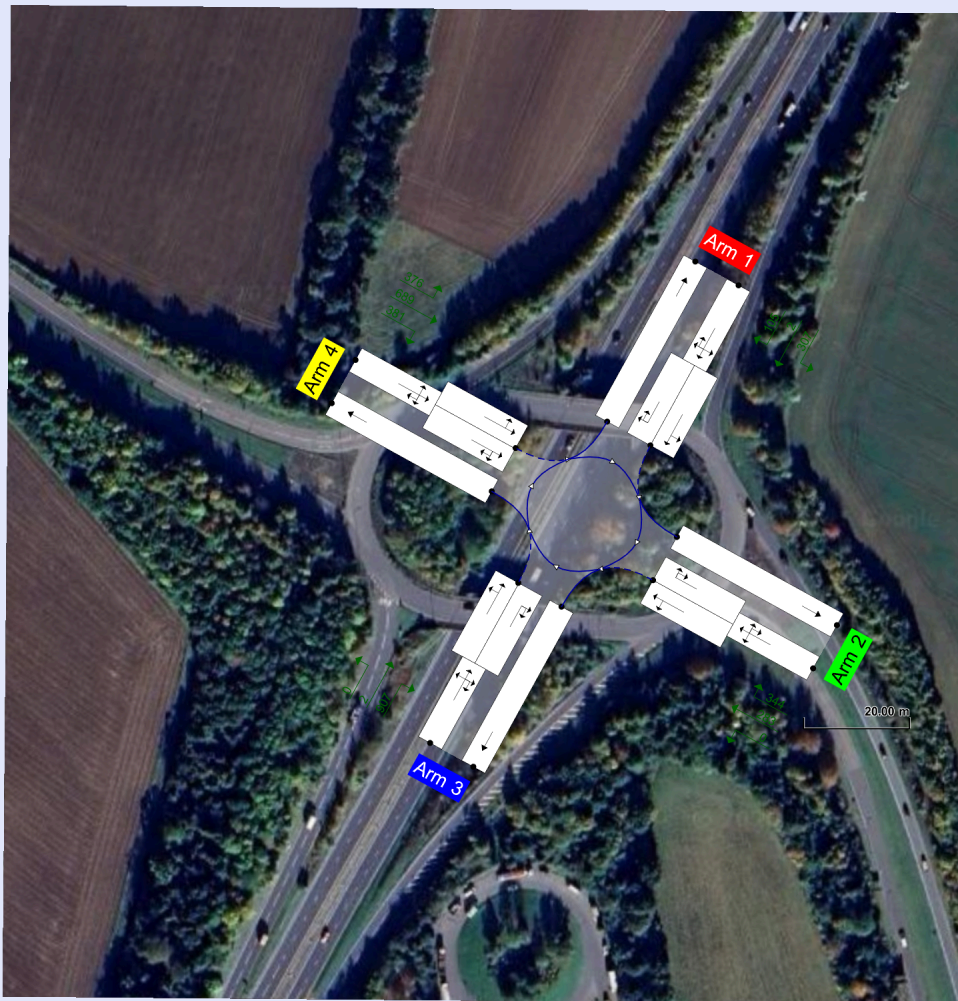
File summary

File Description

Title	
Location	
Site number	
Date	18/03/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\SamuelSizer
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	Veh	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (Veh/hr)
 Lane simulation visualisation time: 00:00:00
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	✓			974416050	145	6.99

Demand Set Summary

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base + Com Dev	AM	ONE HOUR	00:00	01:30	15	✓
D4	Base + Com Dev	PM	ONE HOUR	00:00	01:30	15	✓
D5	Base + Com Dev + CaPCAM (2550)	AM	ONE HOUR	00:00	01:30	15	✓
D6	Base + Com Dev + CaPCAM (2550)	PM	ONE HOUR	00:00	01:30	15	✓
D9	Base + Com Dev + CaPCAM (5000)	AM	ONE HOUR	00:00	01:30	15	✓
D10	Base + Com Dev + CaPCAM (5000)	PM	ONE HOUR	00:00	01:30	15	✓
D11	Base + Com Dev + CaPCAM (2550) 30/70 SPLIT	AM	ONE HOUR	00:00	01:30	15	✓
D12	Base + Com Dev + CaPCAM (2550) 30/70 SPLIT	PM	ONE HOUR	00:00	01:30	15	✓
D13	Base + Com Dev + CaPCAM (5000) 30/70 SPLIT	AM	ONE HOUR	00:00	01:30	15	✓
D14	Base + Com Dev + CaPCAM (5000) 30/70 SPLIT	PM	ONE HOUR	00:00	01:30	15	✓

Analysis Set Details

ID	Use Lane Simulation	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	✓	100.000	100.000

D3 - | Base + Com Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	11.00	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	11.00	B

Arms

Arms

Arm	Name	Description	No give-way line
1	A11 (North)		
2	A1307 (East)		
3	A11 (South)		
4	A1307 (West)		

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	4.50	7.03	12.0	39.0	100.0	10.0		
2	4.10	9.70	91.0	32.0	170.0	13.0		
3	6.60	8.84	46.0	40.0	100.0	24.0		
4	7.35	10.37	24.0	34.0	170.0	3.5		

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	816	✓	45.00
2	827	✓	110.00
3	1208	✓	35.00
4	625	✓	110.00

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.932	2574
2	1.137	3309
3	1.006	3220
4	1.287	3693

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	✓	3.00			0	99999	
			2	1, 4	✓	3.00			0	99999	
	Exit	1	1	(1, 2, 3, 4)		Infinity					
			1	1		Infinity					
2	Entry	1	1	3, 4	✓	3.00			0	99999	
			2	1, 2	✓	3.00			0	99999	
	Exit	1	1	(1, 2, 3, 4)		Infinity					
			1	1		Infinity					
3	Entry	1	1	1, 4	✓	3.00			0	99999	
			2	2, 3	✓	3.00			0	99999	
	Exit	1	1	(1, 2, 3, 4)		Infinity					
			1	1		Infinity					
4	Entry	1	1	1, 2	✓	3.00			0	99999	
			2	2, 3, 4	✓	3.00			0	99999	
	Exit	1	1	(1, 2, 3, 4)		Infinity					
			1	1		Infinity					

Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
1	Entry	1	1	0.466	1287
			2	0.466	1287
2	Entry	1	1	0.568	1654
			2	0.568	1654
3	Entry	1	1	0.503	1610
			2	0.503	1610
4	Entry	1	1	0.644	1847
			2	0.644	1847

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	✓	✓	✓	✓
3	1	1	✓			✓
		2		✓	✓	
	2	1	✓	✓	✓	✓
4	1	1	✓	✓		
		2		✓	✓	✓
	2	1	✓	✓	✓	✓

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base + Com Dev	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	735	100.000
2		ONE HOUR	✓	916	100.000
3		ONE HOUR	✓	773	100.000
4		ONE HOUR	✓	422	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	3	247	3	482
	2	139	0	349	428
	3	4	280	72	417
	4	81	159	182	0

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
From	1	0	11	0	2
	2	21	0	13	2
	3	25	12	1	4
	4	4	5	4	0

Cyclist %

		To			
		1	2	3	4
From	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	10.43	2.5	7.6	B	703	1054
2	16.43	5.7	17.8	C	922	1382
3	9.21	2.6	7.7	A	760	1139
4	3.00	0.4	1.8	A	403	605

Main Results for each time segment

00:00 - 00:15

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	586	146	564	585	578	203	0.0	1.1	5.258	A
2	751	188	575	753	746	574	0.0	1.1	4.935	A
3	631	158	826	627	620	502	0.0	1.0	4.224	A
4	340	85	426	341	334	1027	0.0	0.3	2.474	A

00:15 - 00:30

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	689	172	661	688	685	237	1.1	1.4	6.634	A
2	910	228	675	908	901	675	1.1	2.2	7.241	A
3	735	184	987	735	741	596	1.0	1.2	5.276	A
4	391	98	508	391	398	1215	0.3	0.3	2.749	A

00:30 - 00:45

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	843	211	824	841	841	290	1.4	2.4	9.646	A
2	1113	278	832	1101	1094	832	2.2	5.7	13.508	B
3	929	232	1203	921	912	730	1.2	2.6	8.244	A
4	486	122	627	486	485	1497	0.3	0.4	3.000	A

00:45 - 01:00

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	847	212	808	839	840	282	2.4	2.5	10.425	B
2	1096	274	822	1106	1110	826	5.7	4.3	16.425	C
3	910	228	1213	915	916	716	2.6	1.8	9.209	A
4	469	117	622	468	480	1507	0.4	0.4	2.987	A

01:00 - 01:15

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	685	171	666	686	697	230	2.5	1.4	7.223	A
2	911	228	683	913	914	669	4.3	1.8	8.247	A
3	739	185	994	739	742	601	1.8	1.2	5.945	A
4	397	99	500	397	398	1233	0.4	0.3	2.829	A

01:15 - 01:30

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	567	142	555	568	579	201	1.4	1.0	5.743	A
2	748	187	560	751	756	562	1.8	0.9	5.356	A
3	613	153	811	612	626	500	1.2	0.8	4.570	A
4	336	84	421	335	334	1002	0.3	0.2	2.633	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.06	0.00	0.13	2.41	3.25
2	1.07	0.00	0.00	2.54	3.58
3	0.97	0.00	0.00	2.38	2.81
4	0.26	0.00	0.00	0.61	0.94

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.40	0.00	0.51	3.07	4.25
2	2.16	0.00	0.78	5.75	7.29
3	1.21	0.00	0.32	2.74	3.35
4	0.34	0.00	0.00	0.77	1.15

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.37	0.00	0.95	5.70	7.25
2	5.74	0.00	3.50	13.75	17.75
3	2.60	0.00	1.23	6.44	7.69
4	0.43	0.00	0.00	1.11	1.63

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.50	0.00	1.33	6.25	7.55
2	4.30	0.00	1.90	11.50	16.25
3	1.82	0.00	0.67	4.25	5.75
4	0.41	0.00	0.00	0.94	1.82

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.45	0.00	0.58	2.96	3.75
2	1.85	0.00	0.76	3.88	5.44
3	1.17	0.00	0.24	2.73	3.75
4	0.32	0.00	0.00	0.71	0.93

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.98	0.00	0.18	2.29	2.90
2	0.94	0.00	0.00	2.69	3.59
3	0.77	0.00	0.00	1.91	2.64
4	0.19	0.00	0.00	0.45	0.80

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	213	1024	0.208	214	208	0.0	0.3	4.601	A
			2	1, 4	372	1024	0.363	372	370	0.0	0.6	5.105	A
	Exit	1	1	(1, 2, 3, 4)	586			585	582	0.0	0.1	0.317	A
			1		203			203	200	0.0	0.0	0.000	A
2	Entry	1	1	3, 4	620	1328	0.467	621	618	0.0	0.9	4.477	A
			2	1, 2	132	1328	0.099	132	128	0.0	0.1	3.476	A
	Exit	1	1	(1, 2, 3, 4)	751			752	750	0.0	0.1	0.611	A
			1		574			574	567	0.0	0.0	0.000	A
3	Entry	1	1	1, 4	340	1195	0.285	338	329	0.0	0.4	3.897	A
			2	2, 3	291	1195	0.243	288	291	0.0	0.5	4.138	A
	Exit	1	1	(1, 2, 3, 4)	631			630	623	0.0	0.1	0.215	A
			1		502			502	492	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	132	1572	0.084	132	131	0.0	0.1	2.399	A
			2	2, 3, 4	208	1572	0.132	209	203	0.0	0.2	2.510	A
	Exit	1	1	(1, 2, 3, 4)	340			340	335	0.0	0.0	0.008	A
			1		1027			1027	1019	0.0	0.0	0.000	A

00:15 - 00:30

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	248	979	0.253	250	247	0.3	0.4	5.161	A
			2	1, 4	441	979	0.450	439	437	0.6	0.8	6.147	A
	Exit	1	1	(1, 2, 3, 4)	689			689	686	0.1	0.2	0.827	A
2	Entry	1	1	3, 4	756	1271	0.594	755	749	0.9	1.3	5.570	A
			2	1, 2	156	1271	0.122	154	152	0.1	0.3	3.984	A
	Exit	1	1	(1, 2, 3, 4)	910			911	903	0.1	0.6	1.906	A
3	Entry	1	1	1, 4	388	1114	0.349	388	393	0.4	0.6	4.849	A
			2	2, 3	348	1114	0.312	347	347	0.5	0.6	4.727	A
	Exit	1	1	(1, 2, 3, 4)	735			736	742	0.1	0.1	0.482	A
4	Entry	1	1	1, 2	153	1520	0.100	152	156	0.1	0.2	2.623	A
			2	2, 3, 4	238	1520	0.156	238	242	0.2	0.2	2.806	A
	Exit	1	1	(1, 2, 3, 4)	391			391	398	0.0	0.0	0.014	A
	Exit	1	1		1215			1215	1218	0.0	0.0	0.000	A

00:30 - 00:45

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	306	903	0.338	306	303	0.4	0.6	6.368	A
			2	1, 4	534	903	0.591	535	538	0.8	1.1	7.689	A
	Exit	1	1	(1, 2, 3, 4)	843			839	843	0.2	0.7	2.398	A
2	Entry	1	1	3, 4	915	1182	0.774	914	910	1.3	2.0	7.063	A
			2	1, 2	186	1182	0.157	187	183	0.3	0.2	4.207	A
	Exit	1	1	(1, 2, 3, 4)	1113			1101	1096	0.6	3.6	6.854	A
3	Entry	1	1	1, 4	491	1005	0.488	490	483	0.6	1.0	6.365	A
			2	2, 3	434	1005	0.431	431	429	0.6	0.8	6.136	A
	Exit	1	1	(1, 2, 3, 4)	929			924	915	0.1	0.8	1.976	A
4	Entry	1	1	1, 2	192	1443	0.133	192	193	0.2	0.2	2.805	A
			2	2, 3, 4	294	1443	0.204	294	292	0.2	0.3	3.077	A
	Exit	1	1	(1, 2, 3, 4)	486			486	485	0.0	0.0	0.030	A
	Exit	1	1		1497			1497	1490	0.0	0.0	0.000	A

00:45 - 01:00

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	304	910	0.333	302	300	0.6	0.7	6.088	A
			2	1, 4	540	910	0.593	538	541	1.1	1.2	7.951	A
	Exit	1	1	(1, 2, 3, 4)	847			843	841	0.7	0.7	3.107	A
2	Entry	1	1	3, 4	918	1188	0.773	921	928	2.0	1.7	7.458	A
			2	1, 2	185	1188	0.156	186	183	0.2	0.2	4.322	A
	Exit	1	1	(1, 2, 3, 4)	1096			1104	1109	3.6	2.4	9.442	A
3	Entry	1	1	1, 4	485	1000	0.485	487	491	1.0	0.8	6.657	A
			2	2, 3	427	1000	0.427	429	425	0.8	0.6	6.306	A
	Exit	1	1	(1, 2, 3, 4)	910			912	914	0.8	0.4	2.716	A
4	Entry	1	1	1, 2	185	1447	0.128	185	188	0.2	0.2	2.747	A
			2	2, 3, 4	284	1447	0.196	284	292	0.3	0.3	3.101	A
	Exit	1	1	(1, 2, 3, 4)	469			469	480	0.0	0.0	0.025	A
	Exit	1	1		1507			1507	1514	0.0	0.0	0.000	A

01:00 - 01:15

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	241	977	0.247	241	248	0.7	0.4	5.447	A
			2	1, 4	445	977	0.456	445	448	1.2	0.9	6.559	A
	Exit	1	1	(1, 2, 3, 4)	685			686	695	0.7	0.1	1.052	A
2	Entry	1	1	3, 4	762	1266	0.602	762	759	1.7	1.3	5.873	A
			2	1, 2	150	1266	0.119	150	155	0.2	0.2	4.141	A
	Exit	1	1	(1, 2, 3, 4)	911			912	912	2.4	0.4	2.665	A
3	Entry	1	1	1, 4	396	1110	0.356	397	393	0.8	0.5	5.231	A
			2	2, 3	343	1110	0.309	342	349	0.6	0.5	5.234	A
	Exit	1	1	(1, 2, 3, 4)	739			739	741	0.4	0.1	0.716	A
4	Entry	1	1	1, 2	153	1525	0.100	152	154	0.2	0.1	2.680	A
			2	2, 3, 4	244	1525	0.160	245	244	0.3	0.2	2.896	A
	Exit	1	1	(1, 2, 3, 4)	397			397	397	0.0	0.0	0.017	A
	Exit	1	1		1233			1233	1235	0.0	0.0	0.000	A

01:15 - 01:30

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	208	1029	0.202	208	211	0.4	0.4	4.920	A
			2	1, 4	359	1029	0.349	360	367	0.9	0.6	5.501	A
	Exit	1	1	(1, 2, 3, 4)	567			567	577	0.1	0.0	0.446	A
2	Entry	1	1	3, 4	616	1336	0.461	619	626	1.3	0.7	4.731	A
			2	1, 2	132	1336	0.098	132	131	0.2	0.1	3.756	A
	Exit	1	1	(1, 2, 3, 4)	748			748	754	0.4	0.1	0.782	A
3	Entry	1	1	1, 4	328	1202	0.272	328	335	0.5	0.4	4.312	A
			2	2, 3	285	1202	0.237	284	292	0.5	0.4	4.336	A
	Exit	1	1	(1, 2, 3, 4)	613			612	625	0.1	0.1	0.249	A
4	Entry	1	1	1, 2	129	1576	0.082	129	129	0.1	0.1	2.508	A
			2	2, 3, 4	207	1576	0.131	206	205	0.2	0.1	2.694	A
	Exit	1	1	(1, 2, 3, 4)	336			336	333	0.0	0.0	0.010	A
	Exit	1	1		1002			1002	1021	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.30	0.00	0.00	0.90	1.58
			2	0.64	0.00	0.00	1.58	3.00
	Exit	1	1	0.12	0.00	0.00	0.00	0.00
2	Entry	1	1	0.86	0.00	0.00	2.29	2.67
			2	0.08	0.00	0.00	0.00	0.29
	Exit	1	1	0.13	0.00	0.00	0.00	0.00
3	Entry	1	1	0.36	0.00	0.00	0.87	1.47
			2	0.53	0.00	0.00	1.38	1.95
	Exit	1	1	0.08	0.00	0.00	0.00	0.00
4	Entry	1	1	0.08	0.00	0.00	0.00	0.38
			2	0.17	0.00	0.00	0.30	0.78
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.35	0.00	0.00	0.86	1.54
			2	0.84	0.00	0.04	3.00	3.00
		2	1	0.21	0.00	0.00	0.00	1.25
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	1.29	0.00	0.44	2.77	4.00
			2	0.26	0.00	0.00	0.85	1.48
		2	1	0.61	0.00	0.00	2.38	3.96
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.59	0.00	0.00	1.50	2.22
			2	0.56	0.00	0.00	1.79	3.00
		2	1	0.06	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.15	0.00	0.00	0.31	0.71
			2	0.19	0.00	0.00	0.43	0.79
		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

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.58	0.00	0.00	1.65	2.31
			2	1.10	0.00	0.26	2.55	2.79
		2	1	0.70	0.00	0.00	2.10	3.88
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	2.00	0.00	2.11	2.85	2.95
			2	0.18	0.00	0.00	0.32	0.96
		2	1	3.57	0.00	0.35	10.75	14.92
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	1.00	0.00	0.18	2.44	2.74
			2	0.84	0.00	0.00	2.10	2.58
		2	1	0.76	0.00	0.00	3.19	4.25
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.17	0.00	0.00	0.34	0.80
			2	0.26	0.00	0.00	0.67	0.96
		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

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.66	0.00	0.00	1.83	2.38
			2	1.18	0.00	0.38	3.00	3.00
		2	1	0.66	0.00	0.00	2.17	4.35
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	1.72	0.00	1.39	2.78	2.91
			2	0.20	0.00	0.00	0.38	0.95
		2	1	2.37	0.00	0.00	8.38	12.50
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.78	0.00	0.00	3.00	3.00
			2	0.65	0.00	0.00	1.78	3.00
		2	1	0.39	0.00	0.00	0.75	2.92
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.15	0.00	0.00	0.28	0.73
			2	0.26	0.00	0.00	0.60	0.94
		2	1	0.01	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.44	0.00	0.00	0.92	1.68
			2	0.90	0.00	0.00	2.04	2.55
	Exit	1	1	0.10	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	1.26	0.00	0.53	2.61	2.88
			2	0.19	0.00	0.00	0.36	1.31
	Exit	1	1	0.40	0.00	0.00	0.58	2.25
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.51	0.00	0.00	1.07	3.00
			2	0.52	0.00	0.00	1.50	2.25
	Exit	1	1	0.13	0.00	0.00	0.00	0.25
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.14	0.00	0.00	0.25	0.65
			2	0.17	0.00	0.00	0.36	0.76
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.35	0.00	0.00	0.82	1.25
			2	0.58	0.00	0.00	1.39	3.00
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.68	0.00	0.00	1.89	3.00
			2	0.14	0.00	0.00	0.00	0.96
	Exit	1	1	0.13	0.00	0.00	0.00	0.35
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.37	0.00	0.00	0.90	1.59
			2	0.35	0.00	0.00	1.06	1.86
	Exit	1	1	0.06	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.06	0.00	0.00	0.00	-0.04
			2	0.13	0.00	0.00	0.21	0.63
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	212	53	1288	1025	0.207	212	206	0.0	0.3	4.609	A
				3	1	0.37	462	383	0.004	2	2	0.0	0.0	3.683	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	2	0.43	577	474	0.004	2	2	0.0	0.0	4.642	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	370	93	1288	1025	0.361	370	368	0.0	0.6	5.108	A	
		2	1	1	2	0.43	-	-	-	2	2	0.0	0.0	0.073	A
		2		212	53	-	-	-	212	207	0.0	0.0	0.270	A	
		3		1	0.37	-	-	-	1	2	0.0	0.0	0.143	A	
		4		371	93	-	-	-	370	371	0.0	0.1	0.344	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	297	74	1655	1329	0.224	299	293	0.0	0.4	4.625	A
				4	323	81	1655	1329	0.243	322	325	0.0	0.5	4.358	A
			2	1	132	33	1655	1328	0.099	132	128	0.0	0.1	3.476	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	1	132	33	-	-	-	132	128	0.0	0.0	0.477	A
		2		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		3		297	74	-	-	-	297	295	0.0	0.1	0.643	A	
		4		322	81	-	-	-	323	327	0.0	0.0	0.628	A	
3	Entry	1	1	1	4	0.99	900	687	0.006	4	4	0.0	0.0	5.026	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	336	84	1611	1196	0.281	334	325	0.0	0.3	3.886	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	236	59	1611	1195	0.198	234	236	0.0	0.5	4.206	A	
			3	54	14	1611	1196	0.045	54	54	0.0	0.1	3.874	A	
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	1	4	0.99	-	-	-	4	4	0.0	0.0	0.206	A
		2		236	59	-	-	-	236	238	0.0	0.0	0.222	A	
		3		54	14	-	-	-	54	55	0.0	0.0	0.213	A	
		4		336	84	-	-	-	336	327	0.0	0.0	0.211	A	
4	Entry	1	1	1	65	16	1847	1571	0.041	65	66	0.0	0.0	2.445	A
				2	67	17	1847	1573	0.043	67	65	0.0	0.0	2.351	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	61	15	1847	1573	0.039	61	60	0.0	0.0	2.364	A	
			3	147	37	1847	1574	0.094	147	142	0.0	0.1	2.571	A	
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	1	65	16	-	-	-	65	67	0.0	0.0	0.003	A
		2		128	32	-	-	-	128	125	0.0	0.0	0.001	A	
		3		148	37	-	-	-	147	143	0.0	0.0	0.015	A	
		4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

00:15 - 00:30

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	245	61	1288	978	0.250	246	244	0.3	0.4	5.157	A		
				3	3	0.81	728	557	0.006	3	3	0.0	0.0	5.426	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.50	551	416	0.005	2	2	0.0	0.0	5.856	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	439	110	1288	979	0.448	437	435	0.6	0.8	6.149	A		
		2	1	1	2	0.50	-	-	-	2	2	0.0	0.0	0.970	A		
				2	245	61	-	-	-	245	244	0.0	0.1	0.767	A		
				3	3	0.81	-	-	-	3	3	0.0	0.0	0.397	A		
				4	439	110	-	-	-	439	436	0.1	0.1	0.861	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	360	90	1655	1269	0.284	360	355	0.4	0.7	5.709	A
						4	395	99	1655	1268	0.312	395	394	0.5	0.6	5.457	A
2	1				156	39	1655	1271	0.122	154	152	0.1	0.3	3.984	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	156	39	-	-	-	156	153	0.0	0.1	1.660	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	360	90	-	-	-	360	356	0.1	0.3	1.925	A		
				4	395	99	-	-	-	395	395	0.0	0.3	1.971	A		
3	Entry			1	1	1	5	1	944	665	0.007	5	5	0.0	0.0	5.407	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	384	96	1611	1111	0.345	384	389	0.3	0.6	4.843	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		281	70	1611	1114	0.253	280	283	0.5	0.4	4.789	A		
			3		66	17	1611	1112	0.060	66	64	0.1	0.1	4.484	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	5	1	-	-	-	5	5	0.0	0.0	0.723	A		
				2	281	70	-	-	-	281	283	0.0	0.0	0.478	A		
				3	66	17	-	-	-	66	65	0.0	0.0	0.426	A		
				4	383	96	-	-	-	384	390	0.0	0.0	0.491	A		
		4	Entry	1	1	1	76	19	1847	1516	0.050	76	77	0.0	0.1	2.698	A
						2	76	19	1847	1515	0.050	76	79	0.0	0.0	2.549	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				71	18	1847	1519	0.046	71	73	0.0	0.0	2.498	A		
	3				167	42	1847	1517	0.110	167	169	0.1	0.2	2.936	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	76	19	-	-	-	76	77	0.0	0.0	0.009	A		
				2	147	37	-	-	-	147	152	0.0	0.0	0.014	A		
				3	167	42	-	-	-	167	169	0.0	0.0	0.016	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	303	76	1288	904	0.335	303	300	0.4	0.6	6.374	A		
				3	3	0.72	701	504	0.006	3	3	0.0	0.0	5.887	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	3	0.74	773	551	0.005	3	4	0.0	0.0	7.320	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	531	133	1288	903	0.588	532	534	0.8	1.1	7.691	A		
		2	1	1	3	0.77	-	-	-	3	4	0.0	0.0	2.083	A		
				2	303	76	-	-	-	303	301	0.1	0.2	2.335	A		
				3	3	0.72	-	-	-	3	3	0.0	0.0	1.869	A		
				4	534	133	-	-	-	531	535	0.1	0.5	2.435	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	432	108	1655	1181	0.366	432	432	0.7	1.0	7.256	A
						4	483	121	1655	1180	0.409	481	479	0.6	1.0	6.906	A
2	1				186	46	1655	1181	0.157	187	183	0.3	0.2	4.207	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	189	47	-	-	-	186	183	0.1	0.6	6.507	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	435	109	-	-	-	432	433	0.3	1.3	6.881	A		
				4	490	122	-	-	-	483	480	0.3	1.6	6.944	A		
3	Entry			1	1	1	6	1	1111	691	0.008	6	6	0.0	0.0	7.294	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	485	121	1611	1005	0.483	484	478	0.6	1.0	6.356	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		350	88	1611	1007	0.348	347	347	0.4	0.7	6.233	A		
			3		83	21	1611	1004	0.083	84	81	0.1	0.1	5.763	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	6	1	-	-	-	6	6	0.0	0.0	1.334	A		
				2	352	88	-	-	-	350	348	0.0	0.3	1.946	A		
				3	83	21	-	-	-	83	81	0.0	0.0	1.907	A		
				4	489	122	-	-	-	485	479	0.0	0.4	2.015	A		
		4	Entry	1	1	1	94	23	1847	1444	0.065	93	92	0.1	0.1	2.928	A
						2	98	25	1847	1442	0.068	99	100	0.0	0.1	2.691	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				83	21	1847	1441	0.058	83	82	0.0	0.1	2.785	A		
	3				211	53	1847	1442	0.146	211	210	0.2	0.2	3.190	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	94	23	-	-	-	94	92	0.0	0.0	0.020	A		
				2	182	45	-	-	-	182	183	0.0	0.0	0.015	A		
				3	211	53	-	-	-	211	210	0.0	0.0	0.048	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:45 - 01:00

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	300	75	1288	913	0.328	298	296	0.6	0.7	6.098	A
				3	4	0.97	737	519	0.007	4	3	0.0	0.0	5.266	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	4	1	781	548	0.007	4	4	0.0	0.0	9.031	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	536	134	1288	912	0.587	534	537	1.1	1.2	7.943	A
		2	1	1	4	1	-	-	-	4	4	0.0	0.0	2.965	A
				2	301	75	-	-	-	300	297	0.2	0.2	2.893	A
				3	4	0.97	-	-	-	4	3	0.0	0.0	3.801	A
				4	538	134	-	-	-	536	538	0.5	0.4	3.212	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	430	107	1655	1188	0.362	431	438	1.0	0.8	7.660	A
				4	489	122	1655	1187	0.412	490	490	1.0	0.9	7.296	A
			2	1	185	46	1655	1188	0.156	186	183	0.2	0.2	4.322	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	185	46	-	-	-	185	183	0.6	0.5	9.285	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	425	106	-	-	-	430	438	1.3	0.8	9.383	A
				4	486	122	-	-	-	489	489	1.6	1.0	9.539	A
3	Entry	1	1	1	3	0.85	966	598	0.006	3	5	0.0	0.0	6.910	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	481	120	1611	998	0.482	483	487	1.0	0.8	6.655	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	350	87	1611	1000	0.349	351	347	0.7	0.5	6.385	A
				3	78	19	1611	999	0.078	78	77	0.1	0.1	5.987	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	3	0.85	-	-	-	3	5	0.0	0.0	3.918	A
				2	349	87	-	-	-	350	346	0.3	0.2	2.704	A
				3	78	19	-	-	-	78	77	0.0	0.0	2.438	A
				4	480	120	-	-	-	481	486	0.4	0.2	2.761	A
4	Entry	1	1	1	89	22	1847	1453	0.061	89	91	0.1	0.1	2.834	A
				2	96	24	1847	1455	0.066	96	98	0.1	0.1	2.665	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	1847	1451	0.056	82	85	0.1	0.1	2.800	A
				3	202	51	1847	1449	0.139	202	207	0.2	0.2	3.224	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	89	22	-	-	-	89	91	0.0	0.0	0.024	A
				2	177	44	-	-	-	177	182	0.0	0.0	0.011	A
				3	202	51	-	-	-	202	207	0.0	0.0	0.037	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:00 - 01:15

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	239	60	1288	977	0.244	239	246	0.7	0.4	5.458	A		
				3	2	0.62	568	429	0.006	2	2	0.0	0.0	4.441	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	3	0.66	693	516	0.005	3	3	0.0	0.0	5.889	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	443	111	1288	976	0.454	442	445	1.2	0.9	6.563	A		
		2	1	1	3	0.66	-	-	-	3	3	0.0	0.0	1.148	A		
				2	238	59	-	-	-	239	245	0.2	0.0	0.931	A		
				3	2	0.60	-	-	-	2	2	0.0	0.0	1.224	A		
				4	442	111	-	-	-	443	444	0.4	0.1	1.112	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	361	90	1655	1267	0.285	363	359	0.8	0.6	6.100	A
						4	401	100	1655	1267	0.316	399	401	0.9	0.7	5.691	A
2	1				150	38	1655	1266	0.119	150	155	0.2	0.2	4.141	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	150	38	-	-	-	150	155	0.5	0.1	2.341	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	360	90	-	-	-	361	358	0.8	0.1	2.751	A		
				4	400	100	-	-	-	401	400	1.0	0.2	2.701	A		
3	Entry			1	1	1	5	1	989	669	0.008	5	5	0.0	0.0	6.107	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	391	98	1611	1110	0.352	392	388	0.8	0.5	5.222	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		279	70	1611	1109	0.252	278	283	0.5	0.4	5.313	A		
			3		64	16	1611	1110	0.058	64	66	0.1	0.1	4.928	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	5	1	-	-	-	5	5	0.0	0.0	1.005	A		
				2	279	70	-	-	-	279	283	0.2	0.0	0.790	A		
				3	64	16	-	-	-	64	65	0.0	0.0	0.731	A		
				4	391	98	-	-	-	391	387	0.2	0.1	0.661	A		
		4	Entry	1	1	1	72	18	1847	1518	0.048	72	76	0.1	0.1	2.843	A
						2	80	20	1847	1524	0.053	80	78	0.1	0.1	2.520	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				73	18	1847	1524	0.048	73	73	0.1	0.0	2.490	A		
	3				172	43	1847	1524	0.113	171	171	0.2	0.1	3.067	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	72	18	-	-	-	72	76	0.0	0.0	0.022	A		
				2	153	38	-	-	-	153	151	0.0	0.0	0.005	A		
				3	172	43	-	-	-	172	171	0.0	0.0	0.026	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:15 - 01:30

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	205	51	1288	1027	0.200	206	209	0.4	0.4	4.925	A		
				3	2	0.62	613	484	0.005	2	3	0.0	0.0	4.501	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.52	586	468	0.004	2	3	0.0	0.0	5.785	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	358	89	1288	1026	0.348	358	365	0.9	0.6	5.499	A		
		2	1	1	2	0.52	-	-	-	2	3	0.0	0.0	0.229	A		
				2	205	51	-	-	-	205	208	0.0	0.0	0.390	A		
				3	2	0.62	-	-	-	2	3	0.0	0.0	0.214	A		
				4	357	89	-	-	-	358	363	0.1	0.0	0.479	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	298	74	1655	1335	0.223	300	300	0.6	0.3	4.867	A
						4	319	80	1655	1334	0.239	320	325	0.7	0.4	4.617	A
2	1				132	33	1655	1337	0.098	132	131	0.2	0.1	3.756	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	132	33	-	-	-	132	130	0.1	0.0	0.591	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	298	74	-	-	-	298	299	0.1	0.0	0.814	A		
				4	319	80	-	-	-	319	324	0.2	0.1	0.820	A		
3	Entry			1	1	1	3	0.68	833	617	0.004	3	4	0.0	0.0	4.848	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	325	81	1611	1202	0.270	325	331	0.5	0.4	4.307	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		230	58	1611	1205	0.191	230	237	0.4	0.2	4.407	A		
			3		54	14	1611	1204	0.045	54	55	0.1	0.1	4.065	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	3	0.68	-	-	-	3	4	0.0	0.0	0.121	A		
				2	230	58	-	-	-	230	236	0.0	0.0	0.217	A		
				3	55	14	-	-	-	54	55	0.0	0.0	0.283	A		
				4	325	81	-	-	-	325	330	0.1	0.0	0.265	A		
		4	Entry	1	1	1	64	16	1847	1577	0.041	64	65	0.1	0.0	2.581	A
						2	65	16	1847	1575	0.041	65	64	0.1	0.0	2.435	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				62	15	1847	1580	0.039	62	61	0.0	0.0	2.506	A		
	3				145	36	1847	1577	0.092	144	144	0.1	0.1	2.773	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	64	16	-	-	-	64	65	0.0	0.0	0.007	A		
				2	126	32	-	-	-	126	125	0.0	0.0	0.001	A		
				3	145	36	-	-	-	145	144	0.0	0.0	0.019	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D4 - | Base + Com Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	5.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.85	A

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	1571	✓	45.00
2	558	✓	110.00
3	619	✓	35.00
4	967	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base + Com Dev	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	246	100.000
2		ONE HOUR	✓	645	100.000
3		ONE HOUR	✓	851	100.000
4		ONE HOUR	✓	1180	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	11	128	2	105
	2	228	0	218	199
	3	2	576	12	261
	4	376	424	380	0

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
From	1	0	5	0	1
	2	4	0	11	2
	3	0	4	0	3
	4	1	1	1	0

Cyclist %

		To			
		1	2	3	4
From	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	8.50	0.6	3.0	A	235	353
2	4.58	1.3	2.9	A	624	936
3	5.70	1.8	7.0	A	819	1228
4	6.12	2.4	7.0	A	1091	1637

Main Results for each time segment

00:00 - 00:15

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	188	47	1059	187	182	486	0.0	0.4	5.064	A
2	517	129	371	520	519	875	0.0	0.4	3.090	A
3	654	164	413	654	660	477	0.0	0.6	3.424	A
4	909	227	642	903	895	426	0.0	1.0	3.268	A

00:15 - 00:30

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	237	59	1278	237	224	548	0.4	0.4	6.288	A
2	582	146	463	581	618	1052	0.4	0.7	3.716	A
3	783	196	468	775	789	576	0.6	1.5	4.283	A
4	1077	269	747	1079	1075	496	1.0	1.3	3.976	A

00:30 - 00:45

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	284	71	1548	281	279	698	0.4	0.6	8.124	A
2	771	193	559	764	757	1271	0.7	1.3	4.175	A
3	1001	250	628	1003	979	695	1.5	1.8	5.581	A
4	1302	326	951	1296	1295	681	1.3	2.3	5.432	A

00:45 - 01:00

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	271	68	1594	273	277	709	0.6	0.5	8.504	A
2	744	186	557	743	756	1309	1.3	1.1	4.581	A
3	1015	254	610	1021	985	689	1.8	1.2	5.702	A
4	1320	330	983	1321	1327	648	2.3	2.4	6.117	A

01:00 - 01:15

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	235	59	1256	237	238	558	0.5	0.2	6.727	A
2	614	154	461	614	613	1032	1.1	0.8	3.731	A
3	778	194	496	778	787	579	1.2	1.0	4.187	A
4	1059	265	757	1057	1070	517	2.4	1.6	4.112	A

01:15 - 01:30

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	196	49	1065	196	188	488	0.2	0.3	5.641	A
2	514	128	382	514	514	879	0.8	0.3	3.324	A
3	682	171	427	686	667	469	1.0	0.5	3.645	A
4	880	220	671	882	901	442	1.6	0.8	3.516	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.36	0.00	0.00	0.73	0.91
2	0.40	0.00	0.00	0.93	1.63
3	0.60	0.00	0.00	1.27	3.00
4	0.95	0.00	0.14	1.80	2.90

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.38	0.00	0.00	0.88	2.00
2	0.67	0.00	0.00	1.40	2.45
3	1.50	0.00	0.44	3.45	7.00
4	1.33	0.00	0.50	2.93	3.63

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.57	0.00	0.00	1.20	1.73
2	1.31	0.00	0.14	2.63	2.90
3	1.76	0.00	0.50	3.76	5.80
4	2.26	0.00	1.20	5.40	7.00

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.55	0.00	0.00	1.45	3.00
2	1.07	0.00	0.28	1.76	2.90
3	1.19	0.00	0.00	2.80	4.45
4	2.36	0.00	1.38	4.66	5.80

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.24	0.00	0.00	0.60	0.86
2	0.79	0.00	0.00	1.93	2.63
3	1.02	0.00	0.22	1.56	1.90
4	1.57	0.00	0.90	2.93	3.63

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.26	0.00	0.00	0.70	1.45
2	0.33	0.00	0.00	0.85	2.00
3	0.48	0.00	0.00	2.00	2.00
4	0.79	0.00	0.00	2.20	2.73

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	108	784	0.138	107	101	0.0	0.2	5.137	A
			2	1, 4	79	784	0.101	80	81	0.0	0.1	4.913	A
	Exit	1	1	(1, 2, 3, 4)	188			188	184	0.0	0.0	0.029	A
			1	1		486			486	471	0.0	0.0	0.000
2	Entry	1	1	3, 4	338	1462	0.231	341	340	0.0	0.1	3.177	A
			2	1, 2	179	1462	0.123	179	179	0.0	0.3	2.783	A
	Exit	1	1	(1, 2, 3, 4)	517			517	520	0.0	0.0	0.051	A
			1	1		875			875	879	0.0	0.0	0.000
3	Entry	1	1	1, 4	201	1443	0.139	200	199	0.0	0.1	2.803	A
			2	2, 3	455	1443	0.315	454	461	0.0	0.5	3.562	A
	Exit	1	1	(1, 2, 3, 4)	654			655	662	0.0	0.0	0.093	A
			1	1		477			477	480	0.0	0.0	0.000
4	Entry	1	1	1, 2	466	1422	0.327	464	447	0.0	0.5	3.177	A
			2	2, 3, 4	443	1422	0.311	440	448	0.0	0.5	3.142	A
	Exit	1	1	(1, 2, 3, 4)	909			909	899	0.0	0.0	0.109	A
			1	1		426			426	425	0.0	0.0	0.000

00:15 - 00:30

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	128	698	0.184	129	121	0.2	0.2	6.388	A
			2	1, 4	109	698	0.156	109	103	0.1	0.1	6.011	A
	Exit	1	1	(1, 2, 3, 4)	237			237	224	0.0	0.0	0.079	A
2	Entry	1	1	3, 4	384	1407	0.273	383	396	0.1	0.4	3.740	A
			2	1, 2	198	1407	0.141	198	222	0.3	0.2	3.135	A
	Exit	1	1	(1, 2, 3, 4)	582			582	619	0.0	0.0	0.194	A
3	Entry	1	1	1, 4	237	1412	0.168	236	242	0.1	0.2	3.264	A
			2	2, 3	543	1412	0.385	540	547	0.5	1.0	4.214	A
	Exit	1	1	(1, 2, 3, 4)	783			780	792	0.0	0.2	0.359	A
4	Entry	1	1	1, 2	540	1359	0.397	538	535	0.5	0.7	3.769	A
			2	2, 3, 4	541	1359	0.398	541	540	0.5	0.5	3.680	A
	Exit	1	1	(1, 2, 3, 4)	1077			1080	1077	0.0	0.0	0.251	A
	Exit	1	1		496			496	514	0.0	0.0	0.000	A

00:30 - 00:45

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	152	592	0.257	149	151	0.2	0.3	8.325	A
			2	1, 4	132	592	0.223	132	128	0.1	0.3	7.424	A
	Exit	1	1	(1, 2, 3, 4)	284			284	280	0.0	0.0	0.221	A
2	Entry	1	1	3, 4	509	1350	0.377	504	493	0.4	0.9	4.126	A
			2	1, 2	261	1350	0.193	260	264	0.2	0.3	3.379	A
	Exit	1	1	(1, 2, 3, 4)	771			769	759	0.0	0.1	0.313	A
3	Entry	1	1	1, 4	327	1321	0.247	330	309	0.2	0.2	3.742	A
			2	2, 3	673	1321	0.510	674	670	1.0	1.1	4.649	A
	Exit	1	1	(1, 2, 3, 4)	1001			1000	979	0.2	0.4	1.214	A
4	Entry	1	1	1, 2	655	1237	0.529	653	650	0.7	0.9	4.599	A
			2	2, 3, 4	647	1237	0.523	643	645	0.5	1.0	4.537	A
	Exit	1	1	(1, 2, 3, 4)	1302			1302	1298	0.0	0.4	0.861	A
	Exit	1	1		681			681	652	0.0	0.0	0.000	A

00:45 - 01:00

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	147	574	0.257	147	153	0.3	0.3	8.550	A
			2	1, 4	124	574	0.215	126	124	0.3	0.3	8.125	A
	Exit	1	1	(1, 2, 3, 4)	271			271	277	0.0	0.0	0.148	A
2	Entry	1	1	3, 4	476	1351	0.352	476	492	0.9	0.5	4.464	A
			2	1, 2	269	1351	0.199	267	264	0.3	0.4	3.497	A
	Exit	1	1	(1, 2, 3, 4)	744			745	755	0.1	0.1	0.462	A
3	Entry	1	1	1, 4	319	1331	0.240	317	304	0.2	0.4	3.621	A
			2	2, 3	701	1331	0.527	704	681	1.1	0.6	4.962	A
	Exit	1	1	(1, 2, 3, 4)	1015			1020	984	0.4	0.1	1.163	A
4	Entry	1	1	1, 2	664	1218	0.545	664	660	0.9	1.0	4.898	A
			2	2, 3, 4	661	1218	0.542	656	666	1.0	1.0	4.773	A
	Exit	1	1	(1, 2, 3, 4)	1320			1325	1327	0.4	0.4	1.284	A
	Exit	1	1		648			648	633	0.0	0.0	0.000	A

01:00 - 01:15

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	125	707	0.176	125	131	0.3	0.1	6.978	A
			2	1, 4	111	707	0.156	112	107	0.3	0.1	6.173	A
	Exit	1	1	(1, 2, 3, 4)	235			235	237	0.0	0.0	0.119	A
2	Entry	1	1	3, 4	401	1409	0.285	403	400	0.5	0.3	3.745	A
			2	1, 2	213	1409	0.151	211	212	0.4	0.5	3.087	A
	Exit	1	1	(1, 2, 3, 4)	614			614	612	0.1	0.0	0.220	A
3	Entry	1	1	1, 4	247	1396	0.177	246	242	0.4	0.3	3.326	A
			2	2, 3	528	1396	0.378	532	545	0.6	0.5	4.085	A
	Exit	1	1	(1, 2, 3, 4)	778			776	786	0.1	0.2	0.336	A
4	Entry	1	1	1, 2	519	1354	0.384	521	534	1.0	0.6	3.984	A
			2	2, 3, 4	539	1354	0.398	536	536	1.0	0.8	3.777	A
	Exit	1	1	(1, 2, 3, 4)	1059			1059	1068	0.4	0.1	0.232	A
	Exit	1	1		517			517	514	0.0	0.0	0.000	A

01:15 - 01:30

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	103	781	0.131	103	102	0.1	0.1	5.744	A
			2	1, 4	93	781	0.119	93	86	0.1	0.1	5.399	A
	Exit	1	1	(1, 2, 3, 4)	196			196	188	0.0	0.0	0.058	A
2	Entry	1	1	3, 4	340	1456	0.234	340	333	0.3	0.2	3.396	A
			2	1, 2	173	1456	0.119	174	181	0.5	0.1	2.910	A
	Exit	1	1	(1, 2, 3, 4)	514			514	512	0.0	0.0	0.100	A
3	Entry	1	1	1, 4	199	1435	0.139	199	199	0.3	0.2	3.009	A
			2	2, 3	484	1435	0.337	487	467	0.5	0.3	3.693	A
	Exit	1	1	(1, 2, 3, 4)	682			683	665	0.2	0.0	0.163	A
4	Entry	1	1	1, 2	451	1405	0.321	455	457	0.6	0.3	3.472	A
			2	2, 3, 4	429	1405	0.305	427	444	0.8	0.5	3.431	A
	Exit	1	1	(1, 2, 3, 4)	880			880	899	0.1	0.0	0.065	A
	Exit	1	1		442			442	428	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.21	0.00	0.00	1.00	1.00
			2	0.14	0.00	0.00	0.20	0.73
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.14	0.00	0.00	0.20	0.73
			2	0.26	0.00	0.00	0.69	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.14	0.00	0.00	0.20	0.73
			2	0.45	0.00	0.00	0.91	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.45	0.00	0.00	0.90	1.45
			2	0.48	0.00	0.00	1.36	1.78
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.24	0.00	0.00	0.63	2.00
			2	0.14	0.00	0.00	0.20	0.73
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.43	0.00	0.00	0.90	3.00
			2	0.21	0.00	0.00	0.54	0.84
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.24	0.00	0.00	0.60	0.86
			2	1.03	0.00	0.00	3.00	3.00
	Exit	1	1	0.24	0.00	0.00	-0.10	4.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.74	0.00	0.00	1.80	3.00
			2	0.55	0.00	0.00	2.00	2.00
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.31	0.00	0.00	0.76	2.00
			2	0.29	0.00	0.00	0.73	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.86	0.00	0.00	2.36	2.78
			2	0.31	0.00	0.00	0.83	2.00
	Exit	1	1	0.14	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.19	0.00	0.00	0.45	2.00
			2	1.14	0.00	0.38	3.00	3.00
	Exit	1	1	0.43	0.00	0.00	0.40	2.80
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.90	0.00	0.17	3.00	3.00
			2	0.95	0.00	0.00	3.00	3.00
	Exit	1	1	0.40	0.00	0.00	0.80	2.45
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.29	0.00	0.00	0.68	0.89
			2	0.26	0.00	0.00	0.76	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.50	0.00	0.00	1.40	3.00
			2	0.43	0.00	0.00	0.90	2.00
	Exit	1	1	0.14	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.40	0.00	0.00	0.90	3.00
			2	0.64	0.00	0.00	3.00	3.00
	Exit	1	1	0.14	0.00	0.00	0.00	-0.10
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.95	0.00	0.09	3.00	3.00
			2	1.00	0.00	0.00	3.00	3.00
	Exit	1	1	0.40	0.00	0.00	0.40	3.90
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.12	0.00	0.00	1.00	1.00
			2	0.12	0.00	0.00	1.00	1.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.33	0.00	0.00	1.20	1.73
			2	0.45	0.00	0.00	2.00	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.33	0.00	0.00	0.85	2.00
			2	0.48	0.00	0.00	0.90	3.00
	Exit	1	1	0.19	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.64	0.00	0.00	1.76	3.00
			2	0.79	0.00	0.00	1.83	3.00
	Exit	1	1	0.14	0.00	0.00	0.00	0.45
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.12	0.00	0.00	0.00	2.00
			2	0.14	0.00	0.00	0.20	0.73
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.24	0.00	0.00	0.70	2.00
			2	0.10	0.00	0.00	1.00	1.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.17	0.00	0.00	0.36	0.78
			2	0.31	0.00	0.00	0.83	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.33	0.00	0.00	0.76	0.90
			2	0.45	0.00	0.00	1.20	1.73
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	107	27	1198	782	0.137	106	100	0.0	0.2	5.136	A		
				3	1	0.29	257	169	0.007	1	0.86	0.0	0.0	5.181	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	7	2	1084	739	0.009	7	8	0.0	0.0	5.842	A		
			2	0	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	0	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			4	73	18	1198	784	0.093	73	73	0.0	0.1	4.808	A			
		2	1	1	7	2	-	-	-	7	8	0.0	0.0	0.000	A		
		2		107	27	-	-	-	107	101	0.0	0.0	0.042	A			
		3		1	0.29	-	-	-	1	0.86	0.0	0.0	0.000	A			
		4		73	18	-	-	-	73	73	0.0	0.0	0.015	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	183	46	1685	1459	0.125	186	184	0.0	0.0	3.317	A
						4	155	39	1685	1460	0.106	155	155	0.0	0.1	3.023	A
2	1				179	45	1685	1461	0.123	179	179	0.0	0.3	2.783	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	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A			
2	1			1	179	45	-	-	-	179	180	0.0	0.0	0.038	A		
2				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
3				183	46	-	-	-	183	185	0.0	0.0	0.068	A			
4				155	39	-	-	-	155	155	0.0	0.0	0.048	A			
3	Entry			1	1	1	2	0.50	640	560	0.004	2	2	0.0	0.0	3.293	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	199	50	1679	1444	0.138	198	197	0.0	0.1	2.799	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	447		112	1679	1447	0.309	446	452	0.0	0.5	3.573	A			
		3	8		2	1519	1316	0.006	8	9	0.0	0.0	3.039	A			
		4	0		0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		2	1	1	2	0.50	-	-	-	2	2	0.0	0.0	0.000	A		
		2		446	112	-	-	-	447	454	0.0	0.0	0.106	A			
		3		8	2	-	-	-	8	9	0.0	0.0	0.134	A			
		4		199	50	-	-	-	199	198	0.0	0.0	0.065	A			
		4	Entry	1	1	1	301	75	1807	1421	0.211	299	282	0.0	0.4	3.413	A
						2	165	41	1807	1424	0.116	165	164	0.0	0.1	2.770	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	159				40	1807	1425	0.112	157	162	0.0	0.2	2.793	A			
3	284				71	1807	1426	0.199	282	286	0.0	0.3	3.340	A			
4	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A			
2	1			1	301	75	-	-	-	301	284	0.0	0.0	0.110	A		
2				325	81	-	-	-	325	328	0.0	0.0	0.090	A			
3				284	71	-	-	-	284	287	0.0	0.0	0.129	A			
4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			

00:15 - 00:30

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	126	32	1198	697	0.181	126	119	0.2	0.2	6.402	A		
				3	2	0.50	399	238	0.008	2	2	0.0	0.0	5.625	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	9	2	1027	599	0.014	9	9	0.0	0.0	5.265	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	100	25	1198	696	0.144	100	94	0.1	0.1	6.079	A		
		2	1	1	9	2	-	-	-	9	9	0.0	0.0	0.000	A		
				2	126	32	-	-	-	126	119	0.0	0.0	0.122	A		
				3	2	0.50	-	-	-	2	2	0.0	0.0	0.000	A		
				4	100	25	-	-	-	100	95	0.0	0.0	0.036	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	221	55	1685	1408	0.157	222	217	0.0	0.2	3.836	A
						4	163	41	1685	1411	0.116	161	179	0.1	0.3	3.634	A
2	1				198	50	1685	1412	0.140	198	222	0.3	0.2	3.135	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	198	50	-	-	-	198	222	0.0	0.0	0.118	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	221	55	-	-	-	221	217	0.0	0.0	0.233	A		
				4	163	41	-	-	-	163	180	0.0	0.0	0.240	A		
3	Entry			1	1	1	1	0.36	520	432	0.003	1	1	0.0	0.0	4.127	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	236	59	1679	1412	0.167	235	241	0.1	0.2	3.259	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		533	133	1679	1410	0.378	529	535	0.5	1.0	4.226	A		
			3		10	3	1559	1288	0.008	10	12	0.0	0.0	3.693	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	1	0.36	-	-	-	1	1	0.0	0.0	0.177	A		
				2	535	134	-	-	-	533	537	0.0	0.2	0.406	A		
				3	10	3	-	-	-	10	12	0.0	0.0	0.393	A		
				4	236	59	-	-	-	236	241	0.0	0.0	0.255	A		
		4	Entry	1	1	1	340	85	1807	1356	0.251	340	340	0.4	0.5	4.082	A
						2	200	50	1807	1356	0.148	198	195	0.1	0.3	3.223	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				200	50	1807	1353	0.148	199	194	0.2	0.2	3.209	A		
	3				341	85	1807	1360	0.251	342	345	0.3	0.4	3.946	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	339	85	-	-	-	340	340	0.0	0.0	0.284	A		
				2	399	100	-	-	-	399	391	0.0	0.0	0.225	A		
				3	340	85	-	-	-	341	346	0.0	0.0	0.250	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	149	37	1198	593	0.251	147	149	0.2	0.3	8.332	A		
				3	3	0.79	399	195	0.016	3	2	0.0	0.0	7.854	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	16	4	1141	562	0.028	15	13	0.0	0.0	7.957	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	116	29	1198	594	0.196	117	115	0.1	0.2	7.364	A		
		2	1	1	16	4	-	-	-	16	13	0.0	0.0	0.000	A		
				2	149	37	-	-	-	149	150	0.0	0.0	0.296	A		
				3	3	0.79	-	-	-	3	2	0.0	0.0	0.000	A		
				4	116	29	-	-	-	116	115	0.0	0.0	0.156	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	1685	1349	0.202	268	263	0.2	0.5	4.227	A
						4	237	59	1685	1351	0.175	236	230	0.3	0.3	4.019	A
2	1				261	65	1685	1351	0.193	260	264	0.2	0.3	3.379	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	262	66	-	-	-	261	264	0.0	0.1	0.270	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	273	68	-	-	-	272	265	0.0	0.0	0.360	A		
				4	237	59	-	-	-	237	230	0.0	0.0	0.310	A		
3	Entry			1	1	1	2	0.43	560	442	0.004	2	2	0.0	0.0	4.066	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	325	81	1679	1319	0.246	328	307	0.2	0.2	3.740	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		658	165	1679	1319	0.499	658	655	1.0	1.1	4.651	A		
			3		15	4	1679	1319	0.011	15	16	0.0	0.0	4.569	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.43	-	-	-	2	2	0.0	0.0	0.506	A		
				2	659	165	-	-	-	658	655	0.2	0.4	1.288	A		
				3	15	4	-	-	-	15	16	0.0	0.0	0.927	A		
				4	325	81	-	-	-	325	307	0.0	0.1	1.076	A		
		4	Entry	1	1	1	421	105	1807	1237	0.341	422	413	0.5	0.5	4.989	A
						2	234	58	1807	1230	0.190	232	237	0.3	0.4	3.917	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				234	58	1807	1232	0.190	234	232	0.2	0.2	3.846	A		
	3				413	103	1807	1234	0.334	409	414	0.4	0.8	4.922	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	421	105	-	-	-	421	414	0.0	0.1	0.924	A		
				2	469	117	-	-	-	467	469	0.0	0.2	0.798	A		
				3	412	103	-	-	-	413	415	0.0	0.1	0.870	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:45 - 01:00

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	1198	574	0.252	144	150	0.3	0.3	8.584	A		
				3	3	0.71	741	356	0.008	3	3	0.0	0.0	6.808	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	11	3	1141	551	0.020	10	12	0.0	0.1	8.763	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	113	28	1198	576	0.195	115	112	0.2	0.2	8.057	A		
		2	1	1	11	3	-	-	-	11	12	0.0	0.0	0.009	A		
				2	144	36	-	-	-	145	150	0.0	0.0	0.175	A		
				3	3	0.71	-	-	-	3	3	0.0	0.0	0.000	A		
				4	112	28	-	-	-	113	112	0.0	0.0	0.133	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	258	64	1685	1351	0.191	258	273	0.5	0.2	4.580	A
						4	218	54	1685	1350	0.161	217	219	0.3	0.3	4.331	A
2	1				269	67	1685	1350	0.199	267	264	0.3	0.4	3.497	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	270	67	-	-	-	269	265	0.1	0.1	0.373	A		
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				3	257	64	-	-	-	258	272	0.0	0.0	0.421	A		
				4	217	54	-	-	-	218	218	0.0	0.0	0.614	A		
3	Entry			1	1	1	2	0.43	640	507	0.003	2	2	0.0	0.0	3.096	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	1679	1328	0.239	315	302	0.2	0.4	3.624	A
		2	1		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2		692	173	1679	1328	0.521	695	670	1.1	0.6	4.971	A		
			3		9	2	1599	1269	0.007	8	11	0.0	0.0	4.453	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.43	-	-	-	2	2	0.0	0.0	0.113	A		
				2	691	173	-	-	-	692	668	0.4	0.1	1.244	A		
				3	9	2	-	-	-	9	11	0.0	0.0	0.734	A		
				4	314	79	-	-	-	317	303	0.1	0.0	1.009	A		
		4	Entry	1	1	1	429	107	1807	1216	0.352	431	426	0.5	0.6	5.396	A
						2	235	59	1807	1219	0.193	234	235	0.4	0.3	3.990	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				237	59	1807	1221	0.194	236	231	0.2	0.3	4.136	A		
	3				424	106	1807	1217	0.348	420	435	0.8	0.7	5.113	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	427	107	-	-	-	429	426	0.1	0.2	1.303	A		
				2	471	118	-	-	-	472	466	0.2	0.2	1.195	A		
				3	422	105	-	-	-	424	435	0.1	0.1	1.360	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:00 - 01:15

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	123	31	1198	702	0.176	124	130	0.3	0.1	7.000	A
				3	1	0.29	371	216	0.005	1	2	0.0	0.0	5.530	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	11	3	1141	662	0.017	12	12	0.1	0.0	6.077	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	99	25	1198	702	0.141	100	95	0.2	0.1	6.184	A
		2	1	1	11	3	-	-	-	11	12	0.0	0.0	0.102	A
				2	123	31	-	-	-	123	129	0.0	0.0	0.170	A
				3	1	0.29	-	-	-	1	2	0.0	0.0	0.000	A
				4	99	25	-	-	-	99	95	0.0	0.0	0.057	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	229	57	1685	1405	0.163	230	222	0.2	0.2	3.804	A
				4	172	43	1685	1407	0.122	173	178	0.3	0.1	3.677	A
			2	1	213	53	1685	1407	0.151	211	212	0.4	0.5	3.087	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	213	53	-	-	-	213	212	0.1	0.0	0.143	A
				2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				3	229	57	-	-	-	229	222	0.0	0.0	0.230	A
				4	172	43	-	-	-	172	178	0.0	0.0	0.298	A
3	Entry	1	1	1	2	0.50	560	467	0.004	2	2	0.0	0.0	3.996	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	246	62	1679	1397	0.176	244	241	0.4	0.3	3.322	A
			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	519	130	1679	1395	0.372	522	534	0.6	0.5	4.080	A
				3	9	2	1519	1262	0.007	10	11	0.0	0.0	4.337	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.50	-	-	-	2	2	0.0	0.0	0.000	A
				2	520	130	-	-	-	519	534	0.1	0.2	0.385	A
				3	9	2	-	-	-	9	11	0.0	0.0	0.619	A
				4	246	62	-	-	-	246	240	0.0	0.0	0.216	A
4	Entry	1	1	1	332	83	1807	1354	0.245	333	338	0.6	0.5	4.328	A
				2	188	47	1807	1357	0.138	187	196	0.3	0.2	3.394	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	199	50	1807	1354	0.147	198	199	0.3	0.2	3.356	A
				3	341	85	1807	1354	0.251	338	337	0.7	0.6	4.027	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	331	83	-	-	-	332	337	0.2	0.0	0.277	A
				2	387	97	-	-	-	386	395	0.2	0.1	0.208	A
				3	341	85	-	-	-	341	336	0.1	0.0	0.216	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:15 - 01:30

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	102	26	1198	773	0.132	103	101	0.1	0.1	5.707	A	
				3	0.57	0.14	428	264	0.002	0.57	2	0.0	0.0	7.788	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	1	8	2	1055	681	0.012	9	9	0.0	0.0	5.279	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	85	21	1198	780	0.109	84	77	0.1	0.1	5.413	A	
	2	1	1	8	2	-	-	-	8	9	0.0	0.0	0.000	A		
			2	102	26	-	-	-	102	101	0.0	0.0	0.080	A		
			3	0.57	0.14	-	-	-	0.57	2	0.0	0.0	0.589	A		
			4	85	21	-	-	-	85	77	0.0	0.0	0.026	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	181	45	1685	1456	0.124	180	180	0.2	0.2	3.482	A
					4	160	40	1685	1456	0.110	160	153	0.1	0.1	3.303	A
2			1	1	173	43	1685	1455	0.119	174	181	0.5	0.1	2.910	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	173	43	-	-	-	173	179	0.0	0.0	0.062	A		
			2	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	181	45	-	-	-	181	180	0.0	0.0	0.155	A		
			4	160	40	-	-	-	160	153	0.0	0.0	0.086	A		
3		Entry	1	1	1	2	0.43	560	474	0.004	2	2	0.0	0.0	3.019	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	197	49	1679	1435	0.137	198	198	0.3	0.2	3.009	A
	2		1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	473	118	1679	1437	0.330	476	458	0.5	0.3	3.697	A	
				3	11	3	1479	1272	0.008	11	9	0.0	0.0	3.478	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	2	0.43	-	-	-	2	2	0.0	0.0	0.000	A		
			2	473	118	-	-	-	473	457	0.2	0.0	0.172	A		
			3	11	3	-	-	-	11	9	0.0	0.0	0.333	A		
			4	197	49	-	-	-	197	197	0.0	0.0	0.135	A		
	4	Entry	1	1	1	302	76	1807	1404	0.215	304	295	0.5	0.2	3.758	A
					2	149	37	1807	1404	0.106	152	162	0.2	0.1	2.954	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	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	149	37	1807	1405	0.106	149	162	0.2	0.1	3.072	A	
				3	280	70	1807	1404	0.199	278	283	0.6	0.4	3.638	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	302	76	-	-	-	302	294	0.0	0.0	0.057	A		
			2	298	75	-	-	-	298	323	0.1	0.0	0.052	A		
			3	280	70	-	-	-	280	282	0.0	0.0	0.090	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D5 - | Base + Com Dev + CaPCAM (2550) | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	8.67	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.67	A

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	928	✓	45.00
2	849	✓	110.00
3	1433	✓	35.00
4	802	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base + Com Dev + CaPCAM (2550)	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	775	100.000
2		ONE HOUR	✓	760	100.000
3		ONE HOUR	✓	410	100.000
4		ONE HOUR	✓	464	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	2	288	3	482
	2	231	0	0	529
	3	4	334	72	0
	4	81	181	202	0

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
From	1	0	11	0	2
	2	21	0	13	2
	3	25	12	1	4
	4	4	5	4	0

Cyclist %

		To			
		1	2	3	4
From	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	13.17	3.4	9.9	B	751	1127
2	6.58	1.7	6.4	A	744	1116
3	9.98	1.4	5.9	A	413	619
4	3.38	0.5	2.0	A	447	671

Main Results for each time segment

00:00 - 00:15

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	614	154	639	618	603	277	0.0	1.0	5.772	A
2	613	153	589	613	610	667	0.0	0.7	3.792	A
3	335	84	991	338	333	211	0.0	0.6	4.828	A
4	369	92	545	371	364	784	0.0	0.2	2.719	A

00:15 - 00:30

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	742	186	769	747	739	334	1.0	1.6	7.830	A
2	734	183	714	734	735	802	0.7	0.8	4.805	A
3	411	103	1180	409	405	268	0.6	0.8	6.407	A
4	436	109	666	436	434	923	0.2	0.3	3.049	A

00:30 - 00:45

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	891	223	930	891	878	400	1.6	3.4	11.793	B
2	891	223	845	890	898	975	0.8	1.7	6.310	A
3	491	123	1427	496	494	309	0.8	1.0	9.313	A
4	528	132	803	527	530	1120	0.3	0.5	3.308	A

00:45 - 01:00

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	899	225	927	899	897	410	3.4	3.0	13.168	B
2	898	224	852	904	899	973	1.7	1.2	6.577	A
3	489	122	1438	491	489	318	1.0	1.4	9.979	A
4	536	134	802	535	528	1127	0.5	0.5	3.381	A

01:00 - 01:15

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	748	187	775	751	734	326	3.0	1.3	8.018	A
2	723	181	712	722	729	815	1.2	1.1	5.025	A
3	413	103	1177	416	424	257	1.4	0.7	7.022	A
4	435	109	666	435	436	926	0.5	0.3	3.122	A

01:15 - 01:30

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	613	153	650	613	620	275	1.3	1.0	6.422	A
2	605	151	582	604	607	681	1.1	0.7	4.123	A
3	338	84	970	338	342	217	0.7	0.5	5.347	A
4	380	95	544	381	369	764	0.3	0.3	2.829	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.96	0.00	0.25	1.93	2.48
2	0.70	0.00	0.00	1.67	2.46
3	0.61	0.00	0.00	1.62	2.93
4	0.24	0.00	0.00	0.61	0.87

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.63	0.00	0.38	3.90	5.43
2	0.81	0.00	0.00	1.82	2.46
3	0.82	0.00	0.00	2.57	3.57
4	0.33	0.00	0.00	0.73	0.91

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	3.43	0.00	2.27	7.90	9.85
2	1.73	0.00	0.57	3.85	6.43
3	1.00	0.00	0.17	1.90	3.43
4	0.50	0.00	0.00	1.30	1.76

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.95	0.00	1.46	5.70	9.70
2	1.17	0.00	0.10	2.90	4.43
3	1.41	0.00	0.24	3.68	5.85
4	0.52	0.00	0.00	0.95	1.64

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.31	0.00	0.61	2.53	3.43
2	1.09	0.00	0.18	2.52	2.95
3	0.66	0.00	0.00	1.93	2.95
4	0.34	0.00	0.00	0.82	2.00

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.99	0.00	0.11	1.91	3.43
2	0.69	0.00	0.00	1.79	2.37
3	0.46	0.00	0.00	0.90	1.46
4	0.29	0.00	0.00	0.71	0.94

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	240	982	0.245	239	236	0.0	0.4	5.153	A
			2	1, 4	376	982	0.383	378	367	0.0	0.5	5.438	A
	Exit	1	1	(1, 2, 3, 4)	614			616	606	0.0	0.0	0.440	A
			1	1		277			277	277	0.0	0.0	0.000
2	Entry	1	1	3, 4	407	1318	0.309	408	402	0.0	0.4	3.579	A
			2	1, 2	205	1318	0.156	205	208	0.0	0.2	3.870	A
	Exit	1	1	(1, 2, 3, 4)	613			612	613	0.0	0.1	0.123	A
			1	1		667			667	652	0.0	0.0	0.000
3	Entry	1	1	1, 4	3	1111	0.003	3	3	0.0	0.0	3.485	A
			2	2, 3	331	1111	0.298	334	330	0.0	0.5	4.521	A
	Exit	1	1	(1, 2, 3, 4)	335			335	335	0.0	0.1	0.310	A
			1	1		211			211	214	0.0	0.0	0.000
4	Entry	1	1	1, 2	144	1487	0.097	144	138	0.0	0.1	2.572	A
			2	2, 3, 4	225	1487	0.151	226	225	0.0	0.1	2.782	A
	Exit	1	1	(1, 2, 3, 4)	369			369	365	0.0	0.0	0.017	A
			1	1		784			784	767	0.0	0.0	0.000

00:15 - 00:30

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	299	923	0.324	301	295	0.4	0.6	5.907	A
			2	1, 4	445	923	0.482	446	444	0.5	0.7	6.847	A
	Exit	1	1	(1, 2, 3, 4)	742			744	741	0.0	0.3	1.329	A
2	Entry	1	1	3, 4	478	1248	0.383	478	482	0.4	0.4	4.376	A
			2	1, 2	256	1248	0.205	256	253	0.2	0.4	4.416	A
	Exit	1	1	(1, 2, 3, 4)	734			734	735	0.1	0.0	0.418	A
3	Entry	1	1	1, 4	4	1021	0.004	4	4	0.0	0.0	3.690	A
			2	2, 3	406	1021	0.397	405	402	0.5	0.7	5.792	A
	Exit	1	1	(1, 2, 3, 4)	411			410	406	0.1	0.1	0.631	A
4	Entry	1	1	1, 2	161	1412	0.114	160	165	0.1	0.1	2.895	A
			2	2, 3, 4	276	1412	0.195	276	269	0.1	0.2	3.123	A
	Exit	1	1	(1, 2, 3, 4)	436			436	435	0.0	0.0	0.013	A

00:30 - 00:45

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	355	850	0.418	354	349	0.6	0.8	6.989	A
			2	1, 4	538	850	0.633	537	529	0.7	1.5	8.599	A
	Exit	1	1	(1, 2, 3, 4)	891			894	882	0.3	1.2	3.792	A
2	Entry	1	1	3, 4	586	1174	0.500	586	587	0.4	1.0	5.362	A
			2	1, 2	304	1174	0.259	304	311	0.4	0.4	4.951	A
	Exit	1	1	(1, 2, 3, 4)	891			891	900	0.0	0.3	1.073	A
3	Entry	1	1	1, 4	4	902	0.005	4	4	0.0	0.0	4.414	A
			2	2, 3	489	902	0.542	492	490	0.7	0.9	7.561	A
	Exit	1	1	(1, 2, 3, 4)	491			493	495	0.1	0.1	1.778	A
4	Entry	1	1	1, 2	202	1328	0.152	202	204	0.1	0.2	3.130	A
			2	2, 3, 4	326	1328	0.245	325	326	0.2	0.3	3.360	A
	Exit	1	1	(1, 2, 3, 4)	528			528	531	0.0	0.0	0.036	A

00:45 - 01:00

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	364	851	0.428	364	357	0.8	0.6	7.412	A
			2	1, 4	535	851	0.628	535	539	1.5	1.3	8.746	A
	Exit	1	1	(1, 2, 3, 4)	899			899	895	1.2	1.0	4.932	A
2	Entry	1	1	3, 4	592	1169	0.507	596	593	1.0	0.7	5.471	A
			2	1, 2	307	1169	0.263	308	306	0.4	0.3	5.016	A
	Exit	1	1	(1, 2, 3, 4)	898			899	897	0.3	0.2	1.243	A
3	Entry	1	1	1, 4	3	897	0.004	3	5	0.0	0.0	5.325	A
			2	2, 3	485	897	0.540	488	485	0.9	1.0	7.840	A
	Exit	1	1	(1, 2, 3, 4)	489			488	490	0.1	0.4	2.157	A
4	Entry	1	1	1, 2	214	1328	0.161	213	208	0.2	0.2	3.061	A
			2	2, 3, 4	322	1328	0.243	322	320	0.3	0.3	3.526	A
	Exit	1	1	(1, 2, 3, 4)	536			536	528	0.0	0.0	0.037	A

01:00 - 01:15

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	295	920	0.321	297	290	0.6	0.4	6.186	A
			2	1, 4	456	920	0.495	455	444	1.3	0.9	6.925	A
	Exit	1	1	(1, 2, 3, 4)	748			751	731	1.0	0.1	1.390	A
2	Entry	1	1	3, 4	471	1249	0.377	473	483	0.7	0.6	4.633	A
			2	1, 2	252	1249	0.202	249	246	0.3	0.5	4.362	A
	Exit	1	1	(1, 2, 3, 4)	723			723	729	0.2	0.0	0.475	A
3	Entry	1	1	1, 4	4	1022	0.004	4	4	0.0	0.0	4.698	A
			2	2, 3	410	1022	0.401	412	420	1.0	0.6	6.220	A
	Exit	1	1	(1, 2, 3, 4)	413			413	422	0.4	0.1	0.826	A
4	Entry	1	1	1, 2	165	1412	0.117	166	167	0.2	0.1	2.990	A
			2	2, 3, 4	270	1412	0.191	270	268	0.3	0.2	3.155	A
	Exit	1	1	(1, 2, 3, 4)	435			435	435	0.0	0.0	0.030	A

01:15 - 01:30

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	248	977	0.254	248	248	0.4	0.4	5.453	A
			2	1, 4	366	977	0.374	365	372	0.9	0.5	5.824	A
	Exit	1	1	(1, 2, 3, 4)	613			614	618	0.1	0.1	0.739	A
2	Entry	1	1	3, 4	400	1322	0.302	400	404	0.6	0.4	3.884	A
			2	1, 2	205	1322	0.155	204	204	0.5	0.3	4.014	A
	Exit	1	1	(1, 2, 3, 4)	605			605	606	0.0	0.0	0.203	A
3	Entry	1	1	1, 4	4	1122	0.004	4	4	0.0	0.0	4.636	A
			2	2, 3	333	1122	0.297	334	338	0.6	0.4	5.015	A
	Exit	1	1	(1, 2, 3, 4)	338			337	341	0.1	0.0	0.336	A
4	Entry	1	1	1, 2	147	1488	0.099	147	140	0.1	0.1	2.683	A
			2	2, 3, 4	234	1488	0.157	234	229	0.2	0.2	2.899	A
	Exit	1	1	(1, 2, 3, 4)	380			380	369	0.0	0.0	0.011	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.43	0.00	0.00	1.30	1.76
			2	0.52	0.00	0.00	1.34	1.71
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
2	Entry	1	1	0.40	0.00	0.00	0.92	1.71
			2	0.23	0.00	0.00	0.62	1.37
	Exit	1	1	0.07	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.53	0.00	0.00	1.62	2.37
	Exit	1	1	0.08	0.00	0.00	0.00	-0.08
4	Entry	1	1	0.11	0.00	0.00	1.00	1.00
			2	0.13	0.00	0.00	1.00	1.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.60	0.00	0.00	1.67	2.37
			2	0.75	0.00	0.00	3.00	3.00
	Exit	1	1	0.28	0.00	0.00	0.94	1.77
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.39	0.00	0.00	1.10	1.69
			2	0.39	0.00	0.00	0.87	1.37
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	0.67	0.00	0.00	3.00	3.00
	Exit	1	1	0.13	0.00	0.00	0.00	0.57
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.14	0.00	0.00	1.00	1.00
			2	0.18	0.00	0.00	0.44	0.76
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.78	0.00	0.00	3.00	3.00
			2	1.49	0.00	1.03	3.00	3.00
	Exit	1	1	1.16	0.00	0.00	3.85	6.85
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	1.04	0.00	0.24	2.44	2.76
			2	0.39	0.00	0.00	1.34	3.00
	Exit	1	1	0.31	0.00	0.00	0.00	1.85
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.89	0.00	0.17	3.00	3.00
	Exit	1	1	0.11	0.00	0.00	0.00	0.43
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.17	0.00	0.00	0.39	0.74
			2	0.34	0.00	0.00	0.84	1.46
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.64	0.00	0.00	1.95	2.64
			2	1.30	0.00	0.60	3.00	3.00
	Exit	1	1	1.01	0.00	0.00	2.70	6.85
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.66	0.00	0.00	3.00	3.00
			2	0.30	0.00	0.00	0.86	1.57
	Exit	1	1	0.20	0.00	0.00	0.00	0.85
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.04	0.00	0.24	2.48	2.82
	Exit	1	1	0.36	0.00	0.00	0.57	2.93
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.20	0.00	0.00	0.51	0.79
			2	0.29	0.00	0.00	0.73	0.95
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.39	0.00	0.00	0.94	1.77
			2	0.86	0.00	0.08	1.82	3.00
	Exit	1	1	0.07	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.55	0.00	0.00	1.48	1.82
			2	0.48	0.00	0.00	1.39	1.95
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.59	0.00	0.00	3.00	3.00
	Exit	1	1	0.07	0.00	0.00	0.00	-0.05
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.10	0.00	0.00	0.00	0.48
			2	0.24	0.00	0.00	0.64	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.40	0.00	0.00	0.95	1.64
			2	0.51	0.00	0.00	1.12	1.81
	Exit	1	1	0.08	0.00	0.00	0.00	0.28
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.40	0.00	0.00	1.12	1.81
			2	0.28	0.00	0.00	0.81	1.57
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.02	0.00	0.00	0.00	0.00
			2	0.42	0.00	0.00	0.89	1.46
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.12	0.00	0.00	1.00	1.00
			2	0.17	0.00	0.00	1.00	1.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	239	60	1272	985	0.243	238	234	0.0	0.4	5.142	A
				3	1	0.25	444	352	0.003	1	2	0.0	0.0	6.566	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	3	0.65	444	352	0.007	3	2	0.0	0.0	4.640	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	373	93	1272	984	0.379	376	365	0.0	0.5	5.442	A
		2	1	1	3	0.65	-	-	-	3	2	0.0	0.0	0.423	A
				2	239	60	-	-	-	239	236	0.0	0.0	0.428	A
				3	1	0.25	-	-	-	1	2	0.0	0.0	0.622	A
				4	372	93	-	-	-	373	367	0.0	0.0	0.447	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	407	102	1651	1318	0.309	408	402	0.0	0.4	3.579	A
			2	1	205	51	1651	1320	0.156	205	208	0.0	0.2	3.870	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	205	51	-	-	-	205	209	0.0	0.0	0.151	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	-	-	-	407	404	0.0	0.1	0.111	A
3	Entry	1	1	1	3	0.87	726	533	0.007	3	3	0.0	0.0	3.485	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	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	280	70	1586	1113	0.252	283	277	0.0	0.5	4.518	A
				3	51	13	1586	1113	0.046	52	53	0.0	0.1	4.537	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	3	0.87	-	-	-	3	3	0.0	0.0	0.082	A
				2	280	70	-	-	-	280	279	0.0	0.1	0.299	A
				3	51	13	-	-	-	51	53	0.0	0.0	0.377	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	67	17	1825	1490	0.045	66	64	0.0	0.1	2.715	A
				2	77	19	1825	1485	0.052	78	75	0.0	0.0	2.450	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	69	17	1825	1485	0.046	69	66	0.0	0.1	2.539	A
				3	156	39	1825	1487	0.105	158	160	0.0	0.0	2.881	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	67	17	-	-	-	67	64	0.0	0.0	0.000	A
				2	146	37	-	-	-	146	141	0.0	0.0	0.012	A
				3	156	39	-	-	-	156	160	0.0	0.0	0.028	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:15 - 00:30

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	297	74	1272	926	0.321	298	292	0.4	0.6	5.920	A		
				3	3	0.65	613	450	0.006	3	3	0.0	0.0	4.617	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	1	0.36	337	247	0.006	2	1	0.0	0.0	6.430	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	443	111	1272	923	0.480	445	443	0.5	0.7	6.848	A		
		2	1	1	1	0.36	-	-	-	1	1	0.0	0.0	0.380	A		
				2	297	74	-	-	-	297	293	0.0	0.2	1.286	A		
				3	3	0.65	-	-	-	3	3	0.0	0.0	0.834	A		
				4	442	110	-	-	-	443	444	0.0	0.1	1.362	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	478	120	1651	1248	0.383	478	482	0.4	0.4	4.376	A
2	1				256	64	1651	1248	0.205	256	253	0.2	0.4	4.416	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	256	64	-	-	-	256	253	0.0	0.0	0.443	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	478	120	-	-	-	478	482	0.1	0.0	0.407	A		
3	Entry			1	1	1	4	1	821	534	0.008	4	4	0.0	0.0	3.690	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	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		337	84	1586	1020	0.330	336	334	0.5	0.6	5.838	A		
			3		69	17	1586	1024	0.067	69	68	0.1	0.1	5.586	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	4	1	-	-	-	4	4	0.0	0.0	0.192	A		
				2	338	84	-	-	-	337	335	0.1	0.1	0.651	A		
				3	69	17	-	-	-	69	68	0.0	0.0	0.559	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	72	18	1825	1414	0.051	72	76	0.1	0.1	3.031	A
						2	88	22	1825	1415	0.062	88	90	0.0	0.1	2.779	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				80	20	1825	1414	0.057	79	78	0.1	0.1	2.835	A		
	3				195	49	1825	1417	0.138	197	191	0.0	0.1	3.238	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	72	18	-	-	-	72	76	0.0	0.0	0.002	A		
				2	168	42	-	-	-	168	168	0.0	0.0	0.005	A		
				3	195	49	-	-	-	195	191	0.0	0.0	0.024	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	354	88	1272	852	0.416	352	346	0.6	0.8	6.984	A		
				3	2	0.51	659	437	0.005	2	3	0.0	0.0	7.518	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.54	628	423	0.005	2	3	0.0	0.0	9.448	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	536	134	1272	851	0.629	534	526	0.7	1.5	8.594	A		
		2	1	1	2	0.51	-	-	-	2	3	0.0	0.0	5.247	A		
				2	353	88	-	-	-	354	347	0.2	0.4	3.665	A		
				3	2	0.54	-	-	-	2	3	0.0	0.0	3.383	A		
				4	534	133	-	-	-	536	529	0.1	0.7	3.864	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	586	147	1651	1174	0.500	586	587	0.4	1.0	5.362	A
2	1				304	76	1651	1175	0.259	304	311	0.4	0.4	4.951	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	305	76	-	-	-	304	311	0.0	0.2	1.090	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	585	146	-	-	-	586	590	0.0	0.1	1.065	A		
3	Entry			1	1	1	4	1	879	512	0.009	4	4	0.0	0.0	4.414	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	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		408	102	1586	903	0.452	412	412	0.6	0.7	7.652	A		
			3		81	20	1586	903	0.090	80	78	0.1	0.2	7.132	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	4	1	-	-	-	4	4	0.0	0.0	1.121	A		
				2	406	102	-	-	-	408	412	0.1	0.1	1.823	A		
				3	80	20	-	-	-	81	79	0.0	0.0	1.590	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	89	22	1825	1338	0.067	89	89	0.1	0.1	3.368	A
						2	113	28	1825	1334	0.085	113	116	0.1	0.1	2.946	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				98	25	1825	1329	0.074	98	98	0.1	0.1	2.912	A		
	3				227	57	1825	1332	0.171	227	228	0.1	0.2	3.549	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	89	22	-	-	-	89	88	0.0	0.0	0.028	A		
				2	211	53	-	-	-	211	214	0.0	0.0	0.017	A		
				3	227	57	-	-	-	227	229	0.0	0.0	0.055	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:45 - 01:00

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	360	90	1272	851	0.423	360	354	0.8	0.6	7.402	A		
				3	4	1	750	502	0.009	4	3	0.0	0.0	8.435	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	3	0.65	536	358	0.007	3	2	0.0	0.0	7.100	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	532	133	1272	851	0.625	532	537	1.5	1.3	8.753	A		
		2	1	1	2	0.61	-	-	-	3	2	0.0	0.0	5.190	A		
				2	360	90	-	-	-	360	353	0.4	0.3	4.766	A		
				3	4	1	-	-	-	4	3	0.0	0.0	2.735	A		
				4	532	133	-	-	-	532	536	0.7	0.7	5.044	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	592	148	1651	1169	0.507	596	593	1.0	0.7	5.471	A
2	1				307	77	1651	1173	0.262	308	306	0.4	0.3	5.016	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	307	77	-	-	-	307	306	0.2	0.1	1.129	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	591	148	-	-	-	592	591	0.1	0.1	1.292	A		
3	Entry			1	1	1	3	0.80	955	529	0.006	3	5	0.0	0.0	5.325	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	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		405	101	1586	897	0.451	408	406	0.7	1.0	7.928	A		
			3		80	20	1586	897	0.089	80	79	0.2	0.1	7.429	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	3	0.80	-	-	-	3	5	0.0	0.0	2.137	A		
				2	406	101	-	-	-	405	407	0.1	0.3	2.147	A		
				3	80	20	-	-	-	80	79	0.0	0.0	2.205	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	97	24	1825	1331	0.073	96	93	0.1	0.1	3.172	A
						2	117	29	1825	1332	0.088	117	115	0.1	0.1	2.971	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	1825	1334	0.066	89	93	0.1	0.0	2.960	A		
	3				234	58	1825	1328	0.176	233	227	0.2	0.3	3.752	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	97	24	-	-	-	97	93	0.0	0.0	0.040	A		
				2	206	51	-	-	-	206	208	0.0	0.0	0.016	A		
				3	234	58	-	-	-	234	227	0.0	0.0	0.055	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:00 - 01:15

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	292	73	1272	918	0.318	294	288	0.6	0.4	6.189	A		
				3	3	0.65	475	334	0.008	3	2	0.0	0.0	5.788	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.40	460	331	0.005	2	2	0.0	0.0	7.352	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	454	114	1272	921	0.493	453	442	1.3	0.9	6.923	A		
		2	1	1	2	0.40	-	-	-	2	2	0.0	0.0	1.744	A		
				2	291	73	-	-	-	292	287	0.3	0.0	1.329	A		
				3	3	0.65	-	-	-	3	2	0.0	0.0	0.837	A		
				4	453	113	-	-	-	454	440	0.7	0.0	1.427	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	471	118	1651	1249	0.378	473	483	0.7	0.6	4.633	A
2	1				252	63	1651	1249	0.202	249	246	0.3	0.5	4.362	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	252	63	-	-	-	252	247	0.1	0.0	0.470	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	471	118	-	-	-	471	483	0.1	0.0	0.478	A		
3	Entry			1	1	1	4	0.90	707	460	0.008	4	4	0.0	0.0	4.698	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	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		342	86	1586	1022	0.335	344	352	1.0	0.5	6.338	A		
			3		68	17	1586	1025	0.066	68	68	0.1	0.1	5.675	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	4	0.90	-	-	-	4	4	0.0	0.0	0.408	A		
				2	343	86	-	-	-	342	351	0.3	0.1	0.834	A		
				3	67	17	-	-	-	68	68	0.0	0.0	0.808	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	72	18	1825	1411	0.051	72	75	0.1	0.0	3.115	A
						2	93	23	1825	1414	0.066	94	92	0.1	0.0	2.886	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	21	1825	1407	0.058	83	82	0.0	0.0	2.829	A		
	3				188	47	1825	1413	0.133	187	186	0.3	0.2	3.298	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	72	18	-	-	-	72	75	0.0	0.0	0.030	A		
				2	175	44	-	-	-	175	174	0.0	0.0	0.015	A		
				3	188	47	-	-	-	188	186	0.0	0.0	0.044	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:15 - 01:30

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	246	62	1272	978	0.252	245	245	0.4	0.4	5.460	A	
				3	2	0.51	720	553	0.004	2	3	0.0	0.0	4.940	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	2	1	2	0.47	475	364	0.005	2	2	0.0	0.0	6.892	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	364	91	1272	977	0.372	364	370	0.9	0.5	5.818	A	
	2	1	1	2	0.47	-	-	-	2	2	0.0	0.0	1.373	A		
			2	246	62	-	-	-	246	245	0.0	0.0	0.623	A		
			3	2	0.51	-	-	-	2	3	0.0	0.0	0.128	A		
			4	363	91	-	-	-	364	369	0.0	0.0	0.811	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					4	400	100	1651	1322	0.303	400	404	0.6	0.4	3.884	A
2			2	1	205	51	1651	1321	0.155	204	204	0.5	0.3	4.014	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	205	51	-	-	-	205	203	0.0	0.0	0.200	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	-	-	-	400	403	0.0	0.0	0.204	A		
3		Entry	1	1	1	4	1	917	642	0.007	4	4	0.0	0.0	4.636	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	2		2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	274	68	1586	1121	0.244	275	281	0.5	0.3	5.051	A	
				3	59	15	1586	1117	0.053	59	57	0.1	0.1	4.854	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	4	1	-	-	-	4	4	0.0	0.0	0.141	A		
			2	274	69	-	-	-	274	280	0.1	0.0	0.336	A		
			3	59	15	-	-	-	59	57	0.0	0.0	0.350	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	4	Entry	1	1	1	64	16	1825	1491	0.043	64	62	0.0	0.0	2.756	A
					2	83	21	1825	1489	0.056	83	77	0.0	0.1	2.623	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			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	78	19	1825	1489	0.052	78	70	0.0	0.1	2.717	A	
				3	156	39	1825	1486	0.105	156	160	0.2	0.1	2.977	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	64	16	-	-	-	64	62	0.0	0.0	0.005	A		
			2	160	40	-	-	-	160	147	0.0	0.0	0.000	A		
			3	156	39	-	-	-	156	159	0.0	0.0	0.024	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D6 - | Base + Com Dev + CaPCAM (2550) | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	9.95	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.95	A

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	1874	✓	45.00
2	570	✓	110.00
3	768	✓	35.00
4	1201	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base + Com Dev + CaPCAM (2550)	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	356	100.000
2		ONE HOUR	✓	556	100.000
3		ONE HOUR	✓	733	100.000
4		ONE HOUR	✓	1294	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	11	238	2	105
	2	302	0	0	254
	3	2	719	12	0
	4	376	537	381	0

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
From	1	0	5	0	1
	2	4	0	11	2
	3	0	4	0	3
	4	1	1	1	0

Cyclist %

		To			
		1	2	3	4
From	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	17.60	2.1	6.9	C	334	501
2	3.62	0.7	2.4	A	526	789
3	9.88	2.5	8.4	A	698	1047
4	10.63	4.2	12.7	B	1200	1801

Main Results for each time segment

00:00 - 00:15

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	273	68	1276	274	280	551	0.0	0.4	6.591	A
2	438	110	391	440	430	1159	0.0	0.3	3.004	A
3	589	147	530	588	576	301	0.0	0.8	4.496	A
4	984	246	846	982	995	273	0.0	1.2	3.737	A

00:15 - 00:30

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	323	81	1513	322	325	637	0.4	1.0	8.999	A
2	510	127	452	507	514	1383	0.3	0.6	3.194	A
3	679	170	608	683	690	351	0.8	1.0	6.099	A
4	1178	294	971	1180	1182	320	1.2	1.8	5.133	A

00:30 - 00:45

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	407	102	1869	403	404	767	1.0	2.1	14.659	B
2	637	159	564	640	637	1708	0.6	0.5	3.609	A
3	845	211	771	845	834	433	1.0	2.5	9.529	A
4	1442	361	1198	1438	1429	418	1.8	4.2	9.416	A

00:45 - 01:00

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	401	100	1880	399	408	788	2.1	2.1	17.597	C
2	635	159	576	634	628	1703	0.5	0.6	3.624	A
3	841	210	764	844	850	445	2.5	2.2	9.880	A
4	1442	361	1204	1464	1444	404	4.2	3.7	10.625	B

01:00 - 01:15

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	327	82	1510	330	339	615	2.1	0.9	10.188	B
2	505	126	473	504	512	1367	0.6	0.7	3.324	A
3	676	169	610	676	685	367	2.2	1.0	6.274	A
4	1170	293	957	1168	1168	328	3.7	1.6	5.280	A

01:15 - 01:30

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	275	69	1261	277	279	523	0.9	0.4	7.127	A
2	428	107	382	429	433	1156	0.7	0.4	3.064	A
3	560	140	517	563	576	294	1.0	0.6	4.944	A
4	986	247	801	983	983	279	1.6	1.3	4.081	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.42	0.00	0.00	1.14	1.67
2	0.26	0.00	0.00	0.72	1.28
3	0.85	0.00	0.00	2.24	2.77
4	1.16	0.00	0.40	2.58	3.14

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.04	0.00	0.25	2.06	2.81
2	0.56	0.00	0.00	1.37	1.81
3	1.02	0.00	0.00	2.40	3.57
4	1.77	0.00	0.97	3.49	4.18

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.10	0.00	0.93	4.40	6.90
2	0.51	0.00	0.00	1.16	1.74
3	2.48	0.00	0.92	6.35	8.35
4	4.18	0.00	2.26	10.70	12.70

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.12	0.00	0.72	5.07	5.70
2	0.61	0.00	0.00	1.28	2.34
3	2.22	0.00	0.84	5.57	6.68
4	3.66	0.00	2.26	7.47	10.40

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.89	0.00	0.00	1.90	3.23
2	0.65	0.00	0.00	1.60	2.43
3	1.04	0.00	0.00	2.77	3.74
4	1.61	0.00	0.76	3.49	4.43

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.43	0.00	0.00	0.93	1.62
2	0.38	0.00	0.00	0.92	1.46
3	0.60	0.00	0.00	1.60	2.34
4	1.29	0.00	0.46	2.80	3.45

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	183	701	0.260	184	192	0.0	0.3	6.856	A
			2	1, 4	90	701	0.129	90	88	0.0	0.1	5.255	A
	Exit	1	1	(1, 2, 3, 4)	273			273	282	0.0	0.0	0.251	A
			1	1		551			551	538	0.0	0.0	0.000
2	Entry	1	1	3, 4	190	1451	0.131	192	192	0.0	0.1	2.954	A
			2	1, 2	248	1451	0.171	248	237	0.0	0.2	2.981	A
	Exit	1	1	(1, 2, 3, 4)	438			438	431	0.0	0.0	0.035	A
			1	1		1159			1159	1164	0.0	0.0	0.000
3	Entry	1	1	1, 4	2	1368	0.001	2	2	0.0	0.0	3.809	A
			2	2, 3	587	1368	0.429	586	574	0.0	0.8	4.121	A
	Exit	1	1	(1, 2, 3, 4)	589			589	579	0.0	0.0	0.376	A
			1	1		301			301	308	0.0	0.0	0.000
4	Entry	1	1	1, 2	496	1299	0.382	494	496	0.0	0.6	3.551	A
			2	2, 3, 4	488	1299	0.376	488	499	0.0	0.6	3.611	A
	Exit	1	1	(1, 2, 3, 4)	984			984	1000	0.0	0.0	0.155	A
			1	1		273			273	271	0.0	0.0	0.000

00:15 - 00:30

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	222	615	0.360	221	221	0.3	0.7	8.944	A
			2	1, 4	102	615	0.166	101	103	0.1	0.3	7.270	A
	Exit	1	1	(1, 2, 3, 4)	323			324	327	0.0	0.1	0.598	A
2	Entry	1	1	3, 4	229	1414	0.162	229	232	0.1	0.2	3.091	A
			2	1, 2	281	1414	0.199	279	282	0.2	0.4	3.208	A
	Exit	1	1	(1, 2, 3, 4)	510			510	515	0.0	0.0	0.040	A
3	Entry	1	1	1, 4	2	1325	0.002	2	2	0.0	0.0	2.744	A
			2	2, 3	678	1325	0.511	680	688	0.8	0.9	5.071	A
	Exit	1	1	(1, 2, 3, 4)	679			680	690	0.0	0.1	1.034	A
4	Entry	1	1	1, 2	589	1228	0.480	589	588	0.6	0.9	4.491	A
			2	2, 3, 4	592	1228	0.482	591	594	0.6	0.8	4.524	A
	Exit	1	1	(1, 2, 3, 4)	1178			1181	1185	0.0	0.1	0.626	A
	Exit	1	1		320			320	326	0.0	0.0	0.000	A

00:30 - 00:45

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	273	486	0.562	271	273	0.7	1.1	12.844	B
			2	1, 4	134	486	0.276	131	131	0.3	0.7	10.102	B
	Exit	1	1	(1, 2, 3, 4)	407			407	407	0.1	0.4	2.693	A
2	Entry	1	1	3, 4	297	1347	0.221	299	292	0.2	0.2	3.446	A
			2	1, 2	341	1347	0.253	342	345	0.4	0.3	3.570	A
	Exit	1	1	(1, 2, 3, 4)	637			638	637	0.0	0.0	0.096	A
3	Entry	1	1	1, 4	2	1234	0.002	2	2	0.0	0.0	2.621	A
			2	2, 3	842	1234	0.682	843	831	0.9	1.5	6.267	A
	Exit	1	1	(1, 2, 3, 4)	845			844	836	0.1	1.0	3.263	A
4	Entry	1	1	1, 2	726	1098	0.661	723	716	0.9	1.3	5.706	A
			2	2, 3, 4	715	1098	0.651	715	714	0.8	1.2	5.891	A
	Exit	1	1	(1, 2, 3, 4)	1442			1441	1432	0.1	1.7	3.609	A
	Exit	1	1		418			418	411	0.0	0.0	0.000	A

00:45 - 01:00

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	267	482	0.555	268	275	1.1	1.1	14.785	B
			2	1, 4	132	482	0.274	131	133	0.7	0.6	10.660	B
	Exit	1	1	(1, 2, 3, 4)	401			400	407	0.4	0.5	4.190	A
2	Entry	1	1	3, 4	284	1339	0.212	284	286	0.2	0.3	3.417	A
			2	1, 2	350	1339	0.262	350	342	0.3	0.3	3.585	A
	Exit	1	1	(1, 2, 3, 4)	635			635	628	0.0	0.0	0.116	A
3	Entry	1	1	1, 4	3	1238	0.003	3	3	0.0	0.0	2.861	A
			2	2, 3	840	1238	0.679	841	847	1.5	1.5	6.340	A
	Exit	1	1	(1, 2, 3, 4)	841			843	850	1.0	0.7	3.552	A
4	Entry	1	1	1, 2	727	1095	0.664	729	719	1.3	1.2	6.092	A
			2	2, 3, 4	733	1095	0.670	735	725	1.2	1.2	6.227	A
	Exit	1	1	(1, 2, 3, 4)	1442			1460	1444	1.7	1.2	4.467	A
	Exit	1	1		404			404	406	0.0	0.0	0.000	A

01:00 - 01:15

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	223	616	0.361	224	229	1.1	0.6	9.712	A
			2	1, 4	106	616	0.171	106	110	0.6	0.3	8.079	A
	Exit	1	1	(1, 2, 3, 4)	327			328	336	0.5	0.0	1.077	A
2	Entry	1	1	3, 4	232	1402	0.165	232	232	0.3	0.2	3.207	A
			2	1, 2	273	1402	0.195	272	280	0.3	0.4	3.355	A
	Exit	1	1	(1, 2, 3, 4)	505			505	512	0.0	0.0	0.036	A
3	Entry	1	1	1, 4	1	1324	0.001	1	2	0.0	0.0	2.186	A
			2	2, 3	674	1324	0.509	674	683	1.5	0.9	5.071	A
	Exit	1	1	(1, 2, 3, 4)	676			676	682	0.7	0.1	1.227	A
4	Entry	1	1	1, 2	578	1235	0.468	577	581	1.2	0.7	4.579	A
			2	2, 3, 4	593	1235	0.480	591	587	1.2	0.8	4.608	A
	Exit	1	1	(1, 2, 3, 4)	1170			1171	1165	1.2	0.1	0.696	A

01:15 - 01:30

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	188	707	0.266	189	191	0.6	0.3	7.305	A
			2	1, 4	87	707	0.123	88	88	0.3	0.1	6.141	A
	Exit	1	1	(1, 2, 3, 4)	275			275	277	0.0	0.0	0.207	A
2	Entry	1	1	3, 4	200	1456	0.137	200	197	0.2	0.2	2.993	A
			2	1, 2	229	1456	0.157	229	236	0.4	0.2	3.079	A
	Exit	1	1	(1, 2, 3, 4)	428			428	432	0.0	0.0	0.026	A
3	Entry	1	1	1, 4	1	1375	0.001	1	2	0.0	0.0	2.981	A
			2	2, 3	559	1375	0.406	561	575	0.9	0.6	4.386	A
	Exit	1	1	(1, 2, 3, 4)	560			560	575	0.1	0.0	0.564	A
4	Entry	1	1	1, 2	488	1324	0.368	487	488	0.7	0.5	3.903	A
			2	2, 3, 4	498	1324	0.376	496	495	0.8	0.7	3.854	A
	Exit	1	1	(1, 2, 3, 4)	986			985	982	0.1	0.1	0.206	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.30	0.00	0.00	0.83	1.39
			2	0.12	0.00	0.00	0.04	0.63
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.08	0.00	0.00	0.00	0.39
			2	0.18	0.00	0.00	0.34	0.87
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.80	0.00	0.00	3.00	3.00
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
4	Entry	1	1	0.58	0.00	0.00	0.94	3.00
			2	0.56	0.00	0.00	1.49	1.85
	Exit	1	1	0.03	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.67	0.00	0.00	1.84	3.00
			2	0.30	0.00	0.00	0.76	1.14
	Exit	1	1	0.07	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.19	0.00	0.00	0.47	0.76
			2	0.37	0.00	0.00	0.96	1.67
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	0.87	0.00	0.00	2.20	2.64
	Exit	1	1	0.14	0.00	0.00	0.00	0.57
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.88	0.00	0.17	1.96	3.00
			2	0.84	0.00	0.22	1.67	1.94
	Exit	1	1	0.06	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.09	0.00	0.18	3.00	3.00
			2	0.65	0.00	0.00	1.72	3.00
	Exit	1	1	0.36	0.00	0.00	0.68	2.85
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.25	0.00	0.00	0.61	0.92
			2	0.26	0.00	0.00	0.67	0.93
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	1.52	0.00	0.92	2.71	2.89
	Exit	1	1	0.95	0.00	0.00	3.35	5.35
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.26	0.00	0.63	3.00	3.00
			2	1.19	0.00	0.54	3.00	3.00
	Exit	1	1	1.73	0.00	0.00	6.80	9.23
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.06	0.00	0.20	2.49	2.77
			2	0.58	0.00	0.00	1.60	3.00
	Exit	1	1	0.49	0.00	0.00	1.40	2.43
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.27	0.00	0.00	0.63	0.93
			2	0.30	0.00	0.00	0.74	1.57
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.48	0.00	0.84	2.75	2.90
	Exit	1	1	0.74	0.00	0.00	2.57	3.68
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.25	0.00	0.57	2.52	2.82
			2	1.17	0.00	0.47	3.00	3.00
	Exit	1	1	1.25	0.00	0.00	3.85	3.50
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.58	0.00	0.00	1.55	3.00
			2	0.27	0.00	0.00	0.69	1.18
	Exit	1	1	0.03	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.25	0.00	0.00	0.60	0.90
			2	0.36	0.00	0.00	0.96	1.67
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.90	0.00	0.00	3.00	3.00
	Exit	1	1	0.14	0.00	0.00	0.00	0.74
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.73	0.00	0.03	1.55	1.86
			2	0.80	0.00	0.16	1.65	3.00
	Exit	1	1	0.08	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.34	0.00	0.00	0.77	0.90
			2	0.08	0.00	0.00	0.00	0.34
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.17	0.00	0.00	0.40	0.73
			2	0.21	0.00	0.00	0.49	1.14
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	0.58	0.00	0.00	1.60	2.28
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.54	0.00	0.00	0.98	3.00
			2	0.68	0.00	0.00	1.67	3.00
	Exit	1	1	0.08	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	181	45	1165	701	0.258	182	191	0.0	0.3	6.850	A
				3	2	0.40	307	200	0.008	2	1	0.0	0.0	7.611	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	9	2	989	628	0.014	9	9	0.0	0.0	5.010	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	81	20	1165	702	0.116	81	79	0.0	0.1	5.284	A
		2	1	1	9	2	-	-	-	9	9	0.0	0.0	0.134	A
				2	181	45	-	-	-	181	192	0.0	0.0	0.322	A
				3	2	0.40	-	-	-	2	1	0.0	0.0	0.067	A
				4	81	20	-	-	-	81	79	0.0	0.0	0.104	A
			2	1	248	62	1685	1448	0.171	248	237	0.0	0.2	2.981	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	190	48	1685	1451	0.131	192	192	0.0	0.1	2.954	A
			2	1	248	62	1685	1448	0.171	248	237	0.0	0.2	2.981	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	248	62	-	-	-	248	238	0.0	0.0	0.040	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	190	48	-	-	-	190	193	0.0	0.0	0.029	A
			2	1	2	0.51	517	441	0.005	2	2	0.0	0.0	3.809	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
3	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	579	145	1662	1369	0.423	578	565	0.0	0.8	4.118	A
				3	8	2	1489	1239	0.007	8	9	0.0	0.0	4.327	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	2	0.51	-	-	-	2	2	0.0	0.0	0.134	A
				3	578	145	-	-	-	579	568	0.0	0.0	0.376	A
				4	8	2	-	-	-	8	9	0.0	0.0	0.396	A
		2	1	1	2	0.51	-	-	-	2	2	0.0	0.0	0.134	A
				2	578	145	-	-	-	579	568	0.0	0.0	0.376	A
				3	8	2	-	-	-	8	9	0.0	0.0	0.396	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	292	73	1780	1300	0.225	292	290	0.0	0.4	3.885	A
				2	204	51	1780	1304	0.156	203	206	0.0	0.2	3.083	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
4	Entry	1	1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	196	49	1780	1301	0.151	196	201	0.0	0.2	3.102	A
				3	292	73	1780	1302	0.224	291	298	0.0	0.4	3.954	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	293	73	-	-	-	292	291	0.0	0.0	0.184	A
				2	400	100	-	-	-	400	409	0.0	0.0	0.112	A
				3	292	73	-	-	-	292	299	0.0	0.0	0.187	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:15 - 00:30

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	220	55	1165	615	0.357	219	219	0.3	0.7	8.951	A		
				3	2	0.48	462	245	0.008	2	2	0.0	0.0	8.145	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	9	2	1077	565	0.016	9	10	0.0	0.0	7.440	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	93	23	1165	612	0.152	92	94	0.1	0.3	7.253	A		
		2	1	1	9	2	-	-	-	9	10	0.0	0.0	0.130	A		
				2	219	55	-	-	-	220	221	0.0	0.1	0.674	A		
				3	2	0.48	-	-	-	2	2	0.0	0.0	0.938	A		
				4	93	23	-	-	-	93	94	0.0	0.0	0.467	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	229	57	1685	1412	0.162	229	232	0.1	0.2	3.091	A
2	1				281	70	1685	1414	0.199	279	282	0.2	0.4	3.208	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	281	70	-	-	-	281	283	0.0	0.0	0.046	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	229	57	-	-	-	229	232	0.0	0.0	0.032	A		
3	Entry			1	1	1	2	0.62	737	586	0.004	2	2	0.0	0.0	2.744	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	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		668	167	1662	1325	0.504	671	677	0.8	0.9	5.074	A		
			3		9	2	1599	1273	0.007	9	10	0.0	0.0	4.917	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.62	-	-	-	2	2	0.0	0.0	0.351	A		
				2	668	167	-	-	-	668	677	0.0	0.1	1.034	A		
				3	9	2	-	-	-	9	10	0.0	0.0	1.197	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	347	87	1780	1229	0.282	347	344	0.4	0.5	4.918	A
						2	242	61	1780	1229	0.197	241	245	0.2	0.4	3.892	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				251	63	1780	1229	0.204	251	248	0.2	0.3	3.876	A		
	3				341	85	1780	1228	0.278	340	346	0.4	0.6	4.988	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	346	87	-	-	-	347	344	0.0	0.0	0.673	A		
				2	491	123	-	-	-	493	494	0.0	0.0	0.528	A		
				3	340	85	-	-	-	341	347	0.0	0.0	0.719	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	271	68	1165	488	0.555	269	271	0.7	1.1	12.849	B
				3	2	0.54	440	191	0.011	2	2	0.0	0.0	12.176	B
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	13	3	1121	470	0.027	12	12	0.0	0.1	10.072	B
				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	121	30	1165	487	0.249	119	119	0.3	0.6	10.105	B
		2	1	1	13	3	-	-	-	13	13	0.0	0.0	1.600	A
				2	271	68	-	-	-	271	273	0.1	0.3	2.973	A
				3	2	0.54	-	-	-	2	2	0.0	0.0	3.324	A
				4	122	30	-	-	-	121	120	0.0	0.1	2.185	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	297	74	1685	1348	0.221	299	292	0.2	0.2	3.446	A
			2	1	341	85	1685	1349	0.252	342	345	0.4	0.3	3.570	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	340	85	-	-	-	341	345	0.0	0.0	0.121	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	297	74	-	-	-	297	292	0.0	0.0	0.068	A
3	Entry	1	1	1	2	0.48	815	613	0.003	2	2	0.0	0.0	2.621	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	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	828	207	1662	1235	0.670	828	818	0.9	1.5	6.272	A
				3	14	4	1646	1225	0.012	14	13	0.0	0.0	5.974	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.51	-	-	-	2	2	0.0	0.0	3.459	A
				2	829	207	-	-	-	828	821	0.1	0.9	3.263	A
				3	14	4	-	-	-	14	13	0.0	0.0	3.243	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	412	103	1780	1098	0.376	411	416	0.5	0.7	6.283	A
				2	314	78	1780	1098	0.286	312	300	0.4	0.6	4.908	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	298	74	1780	1097	0.272	298	294	0.3	0.4	5.025	A
				3	417	104	1780	1099	0.379	417	419	0.6	0.8	6.497	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	413	103	-	-	-	412	416	0.0	0.5	3.652	A
				2	612	153	-	-	-	612	595	0.0	0.7	3.495	A
				3	417	104	-	-	-	417	420	0.0	0.6	3.730	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:45 - 01:00

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	266	67	1165	483	0.551	268	273	1.1	1.0	14.786	B
				3	1	0.25	451	183	0.006	0.79	2	0.0	0.0	14.637	B
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	11	3	1121	467	0.023	11	13	0.1	0.0	10.590	B
				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	121	30	1165	485	0.251	120	120	0.6	0.5	10.668	B
		2	1	1	11	3	-	-	-	11	13	0.0	0.0	2.985	A
				2	266	67	-	-	-	266	273	0.3	0.3	4.605	A
				3	1	0.28	-	-	-	1	2	0.0	0.0	1.302	A
				4	122	31	-	-	-	121	120	0.1	0.2	3.464	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	284	71	1685	1339	0.212	284	286	0.2	0.3	3.417	A
			2	1	350	88	1685	1338	0.262	350	342	0.3	0.3	3.585	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	351	88	-	-	-	350	342	0.0	0.0	0.120	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	284	71	-	-	-	284	286	0.0	0.0	0.112	A
3	Entry	1	1	1	3	0.82	784	585	0.006	3	3	0.0	0.0	2.861	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	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	826	207	1662	1238	0.667	827	833	1.5	1.5	6.343	A
				3	14	3	1599	1193	0.012	14	14	0.0	0.0	6.162	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	3	0.85	-	-	-	3	3	0.0	0.0	2.965	A
				2	824	206	-	-	-	826	833	0.9	0.7	3.558	A
				3	14	3	-	-	-	14	14	0.0	0.0	3.348	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	423	106	1780	1096	0.386	425	413	0.7	0.8	6.712	A
				2	304	76	1780	1095	0.277	305	306	0.6	0.5	5.255	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	304	76	1780	1094	0.277	304	296	0.4	0.4	5.421	A
				3	430	107	1780	1095	0.393	431	429	0.8	0.8	6.783	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	419	105	-	-	-	423	414	0.5	0.4	4.606	A
				2	600	150	-	-	-	607	602	0.7	0.5	4.361	A
				3	424	106	-	-	-	430	429	0.6	0.3	4.481	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:00 - 01:15

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	221	55	1165	617	0.358	223	227	1.0	0.6	9.720	A		
				3	2	0.42	407	209	0.008	2	2	0.0	0.0	8.633	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	9	2	1099	580	0.015	9	10	0.0	0.0	7.338	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	97	24	1165	619	0.157	96	100	0.5	0.3	8.150	A		
		2	1	1	9	2	-	-	-	9	9	0.0	0.0	0.450	A		
				2	220	55	-	-	-	221	226	0.3	0.0	1.164	A		
				3	2	0.40	-	-	-	2	2	0.0	0.0	1.284	A		
				4	97	24	-	-	-	97	99	0.2	0.0	0.943	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	232	58	1685	1402	0.165	232	232	0.3	0.2	3.207	A
2	1				273	68	1685	1403	0.195	272	280	0.3	0.4	3.355	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	274	68	-	-	-	273	280	0.0	0.0	0.042	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	232	58	-	-	-	232	232	0.0	0.0	0.030	A		
3	Entry			1	1	1	1	0.34	611	476	0.003	1	2	0.0	0.0	2.186	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	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		662	166	1662	1323	0.500	662	671	1.5	0.9	5.078	A		
			3		12	3	1599	1264	0.010	12	12	0.0	0.0	4.702	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	1	0.34	-	-	-	1	2	0.0	0.0	0.712	A		
				2	663	166	-	-	-	662	669	0.7	0.1	1.233	A		
				3	12	3	-	-	-	12	12	0.0	0.0	0.971	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	334	83	1780	1235	0.270	332	338	0.8	0.5	5.036	A
						2	244	61	1780	1232	0.198	245	243	0.5	0.2	3.945	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				237	59	1780	1234	0.192	238	240	0.4	0.2	3.927	A		
	3				355	89	1780	1234	0.288	354	347	0.8	0.6	5.080	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	333	83	-	-	-	334	337	0.4	0.0	0.756	A		
				2	481	120	-	-	-	482	482	0.5	0.0	0.624	A		
				3	355	89	-	-	-	355	346	0.3	0.1	0.739	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:15 - 01:30

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	187	47	1165	706	0.265	188	190	0.6	0.3	7.293	A		
				3	1	0.31	341	201	0.006	1	1	0.0	0.0	8.926	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	9	2	1066	641	0.014	10	10	0.0	0.0	6.245	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	77	19	1165	704	0.110	79	78	0.3	0.1	6.128	A		
		2	1	1	9	2	-	-	-	9	10	0.0	0.0	0.119	A		
				2	187	47	-	-	-	187	189	0.0	0.0	0.243	A		
				3	1	0.31	-	-	-	1	1	0.0	0.0	0.762	A		
				4	77	19	-	-	-	77	78	0.0	0.0	0.126	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	200	50	1685	1455	0.137	200	197	0.2	0.2	2.993	A
2	1				229	57	1685	1457	0.157	229	236	0.4	0.2	3.079	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	229	57	-	-	-	229	235	0.0	0.0	0.031	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	200	50	-	-	-	200	197	0.0	0.0	0.020	A		
3	Entry			1	1	1	1	0.37	580	477	0.003	1	2	0.0	0.0	2.981	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	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		550	138	1662	1374	0.400	552	566	0.9	0.6	4.389	A		
			3		9	2	1442	1189	0.007	9	9	0.0	0.0	4.244	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	1	0.37	-	-	-	1	2	0.0	0.0	0.367	A		
				2	549	137	-	-	-	550	564	0.1	0.0	0.565	A		
				3	9	2	-	-	-	9	9	0.0	0.0	0.533	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	284	71	1780	1321	0.215	283	285	0.5	0.3	4.265	A
						2	204	51	1780	1323	0.154	204	203	0.2	0.2	3.395	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				213	53	1780	1318	0.162	212	206	0.2	0.3	3.398	A		
	3				285	71	1780	1323	0.215	284	289	0.6	0.4	4.181	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	284	71	-	-	-	284	284	0.0	0.0	0.227	A		
				2	417	104	-	-	-	417	410	0.0	0.0	0.169	A		
				3	285	71	-	-	-	285	288	0.1	0.0	0.238	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D9 - | Base + Com Dev + CaPCAM (5000) | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	12.01	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	12.01	B

Arms

Arms

[same as above]

Roundabout Geometry

[same as above]

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	1009	✓	45.00
2	858	✓	110.00
3	1667	✓	35.00
4	976	✓	110.00

Slope / Intercept / Capacity

[same as above]

Lane Simulation: Arm options

[same as above]

Lanes

[same as above]

Entry Lane slope and intercept

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	Base + Com Dev + CaPCAM (5000)	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	803	100.000
2		ONE HOUR	✓	942	100.000
3		ONE HOUR	✓	447	100.000
4		ONE HOUR	✓	482	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	2	316	3	482
	2	317	0	0	625
	3	4	371	72	0
	4	81	199	202	0

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
From	1	0	11	0	2
	2	21	0	13	2
	3	25	12	1	4
	4	4	5	4	0

Cyclist %

		To			
		1	2	3	4
From	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	17.47	4.6	13.9	C	780	1170
2	9.07	3.1	9.9	A	936	1404
3	17.02	2.5	8.1	C	453	680
4	3.85	0.6	1.9	A	462	692

Main Results for each time segment

00:00 - 00:15

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	637	159	685	634	629	350	0.0	1.3	6.024	A
2	758	189	587	758	761	733	0.0	1.0	4.293	A
3	372	93	1126	375	372	219	0.0	0.5	5.490	A
4	379	95	657	379	380	844	0.0	0.3	2.816	A

00:15 - 00:30

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	767	192	810	769	754	428	1.3	1.8	8.143	A
2	929	232	703	930	923	876	1.0	1.4	5.648	A
3	436	109	1378	437	436	254	0.5	1.0	7.776	A
4	452	113	785	452	449	1030	0.3	0.4	3.213	A

00:30 - 00:45

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	935	234	1003	933	927	525	1.8	4.6	15.661	C
2	1126	282	851	1125	1113	1084	1.4	3.0	8.431	A
3	548	137	1667	551	539	309	1.0	2.4	14.181	B
4	550	137	980	549	555	1238	0.4	0.6	3.642	A

00:45 - 01:00

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	932	233	1015	931	935	518	4.6	4.5	17.473	C
2	1124	281	864	1121	1129	1082	3.0	3.1	9.068	A
3	550	137	1667	552	548	318	2.4	2.5	17.015	C
4	561	140	972	562	559	1247	0.6	0.6	3.854	A

01:00 - 01:15

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	770	192	813	774	775	427	4.5	1.7	9.582	A
2	919	230	709	920	922	878	3.1	1.6	6.134	A
3	441	110	1370	441	451	259	2.5	1.1	9.291	A
4	451	113	791	450	456	1020	0.6	0.5	3.350	A

01:15 - 01:30

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	639	160	683	642	644	356	1.7	1.1	6.544	A
2	761	190	584	762	771	741	1.6	1.0	4.631	A
3	373	93	1134	372	375	212	1.1	0.7	6.292	A
4	377	94	662	377	377	844	0.5	0.3	2.954	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.26	0.00	0.22	3.01	3.87
2	0.98	0.00	0.05	2.20	2.93
3	0.54	0.00	0.00	1.37	2.29
4	0.34	0.00	0.00	0.77	0.97

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.80	0.00	0.60	4.09	5.66
2	1.40	0.00	0.30	3.48	4.63
3	0.96	0.00	0.00	2.23	3.62
4	0.39	0.00	0.00	0.88	1.45

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	4.60	0.00	2.36	10.04	13.90
2	3.03	0.00	1.48	8.27	9.90
3	2.38	0.00	0.91	5.36	7.93
4	0.63	0.00	0.00	1.38	1.89

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	4.51	0.00	2.52	10.40	13.80
2	3.06	0.00	1.62	6.77	9.87
3	2.47	0.00	0.95	6.18	8.09
4	0.60	0.00	0.00	1.34	1.95

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.70	0.00	0.65	3.79	4.90
2	1.58	0.00	0.63	3.36	4.18
3	1.13	0.00	0.00	2.87	3.63
4	0.47	0.00	0.00	1.10	1.89

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.09	0.00	0.17	2.34	3.10
2	1.00	0.00	0.06	2.29	3.78
3	0.67	0.00	0.00	1.72	2.83
4	0.34	0.00	0.00	0.79	1.04

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	268	958	0.280	267	261	0.0	0.5	5.233	A
			2	1, 4	369	958	0.385	367	368	0.0	0.7	5.590	A
	Exit	1	1	(1, 2, 3, 4)	637			637	634	0.0	0.1	0.573	A
			1	1		350			350	352	0.0	0.0	0.000
2	Entry	1	1	3, 4	478	1320	0.362	478	477	0.0	0.5	3.976	A
			2	1, 2	280	1320	0.212	280	284	0.0	0.4	3.937	A
	Exit	1	1	(1, 2, 3, 4)	758			758	764	0.0	0.1	0.329	A
			1	1		733			733	731	0.0	0.0	0.000
3	Entry	1	1	1, 4	4	1050	0.004	4	4	0.0	0.0	4.156	A
			2	2, 3	368	1050	0.351	371	368	0.0	0.5	5.080	A
	Exit	1	1	(1, 2, 3, 4)	372			373	374	0.0	0.1	0.414	A
			1	1		219			219	215	0.0	0.0	0.000
4	Entry	1	1	1, 2	148	1413	0.105	148	149	0.0	0.1	2.714	A
			2	2, 3, 4	231	1413	0.163	231	231	0.0	0.2	2.858	A
	Exit	1	1	(1, 2, 3, 4)	379			379	381	0.0	0.0	0.015	A
			1	1		844			844	844	0.0	0.0	0.000

00:15 - 00:30

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	320	902	0.355	321	314	0.5	0.6	6.268	A
			2	1, 4	446	902	0.495	448	440	0.7	0.8	6.851	A
	Exit	1	1	(1, 2, 3, 4)	767			766	755	0.1	0.4	1.518	A
2	Entry	1	1	3, 4	582	1254	0.464	583	578	0.5	0.7	4.841	A
			2	1, 2	347	1254	0.277	346	345	0.4	0.5	4.552	A
	Exit	1	1	(1, 2, 3, 4)	929			930	924	0.1	0.2	0.902	A
3	Entry	1	1	1, 4	4	936	0.004	4	4	0.0	0.0	4.275	A
			2	2, 3	433	936	0.462	433	432	0.5	0.8	6.623	A
	Exit	1	1	(1, 2, 3, 4)	436			437	438	0.1	0.1	1.172	A
4	Entry	1	1	1, 2	176	1337	0.132	176	174	0.1	0.1	3.028	A
			2	2, 3, 4	276	1337	0.207	276	275	0.2	0.3	3.282	A
	Exit	1	1	(1, 2, 3, 4)	452			452	449	0.0	0.0	0.029	A

00:30 - 00:45

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	391	816	0.480	391	387	0.6	1.0	7.974	A
			2	1, 4	542	816	0.664	542	540	0.8	1.4	9.044	A
	Exit	1	1	(1, 2, 3, 4)	935			933	931	0.4	2.2	7.018	A
2	Entry	1	1	3, 4	697	1170	0.596	698	693	0.7	1.2	5.951	A
			2	1, 2	427	1170	0.365	427	420	0.5	0.8	5.300	A
	Exit	1	1	(1, 2, 3, 4)	1126			1124	1115	0.2	1.1	2.694	A
3	Entry	1	1	1, 4	6	806	0.007	6	6	0.0	0.0	5.927	A
			2	2, 3	545	806	0.675	545	534	0.8	1.6	9.294	A
	Exit	1	1	(1, 2, 3, 4)	548			551	542	0.1	0.8	4.896	A
4	Entry	1	1	1, 2	218	1220	0.179	217	221	0.1	0.2	3.387	A
			2	2, 3, 4	332	1220	0.272	332	334	0.3	0.4	3.702	A
	Exit	1	1	(1, 2, 3, 4)	550			550	556	0.0	0.0	0.065	A

00:45 - 01:00

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	387	810	0.478	385	391	1.0	1.1	8.167	A
			2	1, 4	547	810	0.675	546	545	1.4	1.5	9.587	A
	Exit	1	1	(1, 2, 3, 4)	932			934	936	2.2	2.0	8.454	A
2	Entry	1	1	3, 4	704	1163	0.605	704	704	1.2	1.3	6.115	A
			2	1, 2	418	1163	0.360	417	424	0.8	0.7	5.492	A
	Exit	1	1	(1, 2, 3, 4)	1124			1122	1129	1.1	1.1	3.161	A
3	Entry	1	1	1, 4	6	806	0.007	6	5	0.0	0.0	6.122	A
			2	2, 3	546	806	0.677	546	543	1.6	1.5	10.155	B
	Exit	1	1	(1, 2, 3, 4)	550			551	548	0.8	0.9	6.892	A
4	Entry	1	1	1, 2	221	1225	0.181	221	220	0.2	0.2	3.511	A
			2	2, 3, 4	340	1225	0.278	340	339	0.4	0.4	3.924	A
	Exit	1	1	(1, 2, 3, 4)	561			561	559	0.0	0.0	0.092	A

01:00 - 01:15

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	321	901	0.357	324	323	1.1	0.5	6.819	A
			2	1, 4	450	901	0.500	450	452	1.5	0.9	7.499	A
	Exit	1	1	(1, 2, 3, 4)	770			772	770	2.0	0.3	2.390	A
2	Entry	1	1	3, 4	572	1250	0.457	572	579	1.3	0.9	5.102	A
			2	1, 2	349	1250	0.279	348	344	0.7	0.5	4.706	A
	Exit	1	1	(1, 2, 3, 4)	919			920	920	1.1	0.2	1.177	A
3	Entry	1	1	1, 4	4	940	0.005	5	5	0.0	0.0	5.228	A
			2	2, 3	438	940	0.466	436	446	1.5	1.0	7.406	A
	Exit	1	1	(1, 2, 3, 4)	441			442	448	0.9	0.2	1.947	A
4	Entry	1	1	1, 2	175	1333	0.131	174	177	0.2	0.2	3.118	A
			2	2, 3, 4	276	1333	0.207	276	279	0.4	0.3	3.447	A
	Exit	1	1	(1, 2, 3, 4)	451			451	455	0.0	0.0	0.031	A

01:15 - 01:30

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	268	959	0.280	269	270	0.5	0.4	5.777	A
			2	1, 4	372	959	0.388	372	374	0.9	0.6	5.909	A
	Exit	1	1	(1, 2, 3, 4)	639			640	642	0.3	0.1	0.693	A
2	Entry	1	1	3, 4	472	1321	0.358	473	480	0.9	0.5	4.207	A
			2	1, 2	288	1321	0.218	289	291	0.5	0.3	4.225	A
	Exit	1	1	(1, 2, 3, 4)	761			761	769	0.2	0.1	0.422	A
3	Entry	1	1	1, 4	4	1046	0.003	3	3	0.0	0.0	4.037	A
			2	2, 3	369	1046	0.353	368	371	1.0	0.6	5.696	A
	Exit	1	1	(1, 2, 3, 4)	373			372	373	0.2	0.0	0.620	A
4	Entry	1	1	1, 2	147	1410	0.104	146	144	0.2	0.2	2.850	A
			2	2, 3, 4	230	1410	0.163	230	232	0.3	0.2	2.995	A
	Exit	1	1	(1, 2, 3, 4)	377			377	376	0.0	0.0	0.014	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.48	0.00	0.00	1.36	2.09
			2	0.66	0.00	0.00	1.85	3.00
	Exit	1	1	0.12	0.00	0.00	0.00	0.08
2	Entry	1	1	0.54	0.00	0.00	1.39	1.95
			2	0.36	0.00	0.00	1.05	1.73
	Exit	1	1	0.08	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.47	0.00	0.00	1.37	3.00
	Exit	1	1	0.07	0.00	0.00	0.00	0.00
4	Entry	1	1	0.14	0.00	0.00	0.24	0.67
			2	0.20	0.00	0.00	0.49	0.78
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.59	0.00	0.00	1.70	2.36
			2	0.79	0.00	0.00	2.09	2.56
	Exit	1	1	0.42	0.00	0.00	0.63	2.37
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.72	0.00	0.00	3.00	3.00
			2	0.51	0.00	0.00	1.47	2.05
	Exit	1	1	0.17	0.00	0.00	0.00	0.66
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	0.84	0.00	0.00	2.07	2.58
	Exit	1	1	0.11	0.00	0.00	0.00	0.40
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.14	0.00	0.00	0.22	0.66
			2	0.26	0.00	0.00	0.67	1.11
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.01	0.00	0.04	2.48	2.78
			2	1.38	0.00	0.70	2.66	2.84
	Exit	1	1	2.21	0.00	0.00	6.53	9.30
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	1.16	0.00	0.37	3.00	3.00
			2	0.76	0.00	0.00	2.23	2.64
	Exit	1	1	1.11	0.00	0.00	4.05	6.80
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	1.59	0.00	0.91	2.78	2.93
	Exit	1	1	0.78	0.00	0.00	2.22	4.93
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.25	0.00	0.00	0.63	0.94
			2	0.38	0.00	0.00	0.92	1.55
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.06	0.00	0.05	2.56	2.86
			2	1.45	0.00	0.79	2.70	2.86
	Exit	1	1	2.00	0.00	0.00	6.46	10.65
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	1.31	0.00	0.61	3.00	3.00
			2	0.68	0.00	0.00	1.79	2.41
	Exit	1	1	1.08	0.00	0.00	3.40	5.60
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.02	0.00	0.00	0.00	0.00
			2	1.54	0.00	0.90	2.78	2.93
	Exit	1	1	0.92	0.00	0.00	3.02	4.93
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.20	0.00	0.00	0.47	0.80
			2	0.40	0.00	0.00	0.94	1.55
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.48	0.00	0.00	1.26	1.94
			2	0.91	0.00	0.01	3.00	3.00
	Exit	1	1	0.31	0.00	0.00	0.20	1.40
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.88	0.00	0.00	2.19	2.62
			2	0.50	0.00	0.00	1.59	2.30
	Exit	1	1	0.20	0.00	0.00	0.00	0.77
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	0.96	0.00	0.00	2.50	2.82
	Exit	1	1	0.15	0.00	0.00	0.00	0.47
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.19	0.00	0.00	0.44	0.86
			2	0.28	0.00	0.00	0.74	1.21
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.38	0.00	0.00	0.95	1.65
			2	0.62	0.00	0.00	1.66	3.00
	Exit	1	1	0.09	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.53	0.00	0.00	1.28	3.00
			2	0.34	0.00	0.00	0.89	1.61
	Exit	1	1	0.13	0.00	0.00	0.00	0.43
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	0.61	0.00	0.00	1.69	2.33
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.16	0.00	0.00	0.33	0.74
			2	0.18	0.00	0.00	0.42	0.76
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	266	67	1264	959	0.277	265	259	0.0	0.5	5.238	A			
				3	2	0.54	551	436	0.005	2	2	0.0	0.0	4.627	A			
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	1	1	0.34	385	307	0.004	1	1	0.0	0.0	6.006	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	368	92	1264	958	0.384	366	367	0.0	0.7	5.588	A			
		2	1	1	1	0.34	-	-	-	1	1	0.0	0.0	0.197	A			
				2	266	67	-	-	-	266	261	0.0	0.0	0.540	A			
				3	2	0.54	-	-	-	2	2	0.0	0.0	0.745	A			
				4	368	92	-	-	-	368	369	0.0	0.1	0.594	A			
			2	1	280	70	1651	1320	0.212	280	284	0.0	0.4	3.937	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				4	478	120	1651	1320	0.362	478	477	0.0	0.5	3.976	A			
			2	1	280	70	1651	1320	0.212	280	284	0.0	0.4	3.937	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		2	1	1	280	70	-	-	-	280	285	0.0	0.0	0.331	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	478	120	-	-	-	478	479	0.0	0.1	0.328	A			
			3	Entry	1	1	1	4	1	826	592	0.007	4	4	0.0	0.0	4.156	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	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	313				78	1557	1051	0.298	315	313	0.0	0.4	5.144	A			
	3	55				14	1557	1050	0.053	56	55	0.0	0.1	4.748	A			
	4	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A			
2	1	1	4		1	-	-	-	4	4	0.0	0.0	0.224	A				
		2	313		78	-	-	-	313	315	0.0	0.1	0.421	A				
		3	55		14	-	-	-	55	55	0.0	0.0	0.393	A				
		4	0		0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	4	Entry	1		1	1	65	16	1806	1415	0.046	65	63	0.0	0.1	2.849	A	
						2	84	21	1806	1416	0.059	83	85	0.0	0.1	2.612	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	70	17	1806	1414	0.049	70	73	0.0	0.1	2.627	A			
				3	161	40	1806	1415	0.114	161	158	0.0	0.1	2.965	A			
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
2	1		1	65	16	-	-	-	65	64	0.0	0.0	0.013	A				
			2	153	38	-	-	-	153	159	0.0	0.0	0.005	A				
			3	161	40	-	-	-	161	158	0.0	0.0	0.025	A				
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				

00:15 - 00:30

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	318	79	1264	902	0.352	318	311	0.5	0.6	6.265	A
				3	2	0.62	632	452	0.006	3	3	0.0	0.0	6.519	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	2	0.44	428	309	0.006	2	2	0.0	0.0	6.413	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	444	111	1264	903	0.492	447	439	0.7	0.8	6.853	A
		2	1	1	2	0.44	-	-	-	2	2	0.0	0.0	1.199	A
				2	318	80	-	-	-	318	312	0.0	0.2	1.477	A
				3	2	0.62	-	-	-	2	3	0.0	0.0	2.643	A
				4	444	111	-	-	-	444	439	0.1	0.2	1.540	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	582	146	1651	1255	0.464	583	578	0.5	0.7	4.841	A
			2	1	347	87	1651	1255	0.277	346	345	0.4	0.5	4.552	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	347	87	-	-	-	347	346	0.0	0.1	0.920	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	582	146	-	-	-	582	579	0.1	0.1	0.893	A
3	Entry	1	1	1	4	1	826	505	0.008	4	4	0.0	0.0	4.275	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	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	367	92	1557	937	0.392	368	367	0.4	0.7	6.672	A
				3	65	16	1557	939	0.070	65	65	0.1	0.1	6.372	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	4	1	-	-	-	4	4	0.0	0.0	1.143	A
				2	366	92	-	-	-	367	368	0.1	0.1	1.167	A
				3	65	16	-	-	-	65	66	0.0	0.0	1.197	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	76	19	1806	1339	0.057	76	74	0.1	0.1	3.154	A
				2	100	25	1806	1336	0.075	101	101	0.1	0.1	2.935	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	1806	1339	0.067	89	86	0.1	0.1	2.874	A
				3	187	47	1806	1336	0.140	187	189	0.1	0.2	3.466	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	76	19	-	-	-	76	74	0.0	0.0	0.030	A
				2	189	47	-	-	-	189	187	0.0	0.0	0.019	A
				3	187	47	-	-	-	187	189	0.0	0.0	0.040	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:30 - 00:45

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	388	97	1264	816	0.476	388	383	0.6	1.0	7.976	A		
				3	3	0.80	694	455	0.007	3	3	0.0	0.0	7.742	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.51	474	312	0.007	2	2	0.0	0.0	8.221	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	540	135	1264	816	0.662	540	538	0.8	1.4	9.047	A		
		2	1	1	2	0.51	-	-	-	2	2	0.0	0.0	5.802	A		
				2	389	97	-	-	-	388	385	0.2	0.9	6.961	A		
				3	3	0.81	-	-	-	3	3	0.0	0.0	4.989	A		
				4	541	135	-	-	-	540	541	0.2	1.3	7.073	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	697	174	1651	1171	0.596	698	693	0.7	1.2	5.951	A
2	1				427	107	1651	1171	0.365	427	420	0.5	0.8	5.300	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	428	107	-	-	-	427	421	0.1	0.4	2.687	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	698	175	-	-	-	697	695	0.1	0.7	2.698	A		
3	Entry			1	1	1	6	1	1078	571	0.010	6	6	0.0	0.0	5.927	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	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		464	116	1557	805	0.577	465	453	0.7	1.4	9.411	A		
			3		80	20	1557	805	0.100	80	81	0.1	0.2	8.697	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	6	1	-	-	-	6	6	0.0	0.0	3.808	A		
				2	462	115	-	-	-	464	456	0.1	0.6	4.920	A		
				3	80	20	-	-	-	80	81	0.0	0.1	4.838	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	91	23	1806	1223	0.075	91	92	0.1	0.1	3.626	A
						2	127	32	1806	1221	0.104	126	128	0.1	0.1	3.214	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	1806	1223	0.086	105	107	0.1	0.1	3.178	A		
	3				226	57	1806	1221	0.185	226	228	0.2	0.3	3.945	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	91	23	-	-	-	91	93	0.0	0.0	0.059	A		
				2	232	58	-	-	-	232	235	0.0	0.0	0.043	A		
				3	226	57	-	-	-	226	228	0.0	0.0	0.090	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:45 - 01:00

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	384	96	1264	811	0.474	382	387	1.0	1.0	8.169	A		
				3	3	0.70	702	454	0.006	3	3	0.0	0.0	8.034	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	3	0.77	601	388	0.008	3	2	0.0	0.0	9.098	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	544	136	1264	810	0.671	543	542	1.4	1.4	9.590	A		
		2	1	1	3	0.74	-	-	-	3	2	0.0	0.0	10.573	B		
				2	384	96	-	-	-	384	387	0.9	0.9	8.229	A		
				3	3	0.70	-	-	-	3	3	0.0	0.0	9.816	A		
				4	542	135	-	-	-	544	543	1.3	1.1	8.584	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	704	176	1651	1163	0.605	704	704	1.2	1.3	6.115	A
2	1				418	105	1651	1163	0.360	417	424	0.8	0.7	5.492	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	419	105	-	-	-	418	424	0.4	0.4	3.162	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	704	176	-	-	-	704	705	0.7	0.7	3.161	A		
3	Entry			1	1	1	6	1	973	500	0.011	6	5	0.0	0.0	6.122	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	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		468	117	1557	805	0.581	468	464	1.4	1.3	10.224	B		
			3		78	19	1557	808	0.096	78	79	0.2	0.2	9.794	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	6	1	-	-	-	6	5	0.0	0.0	5.298	A		
				2	466	116	-	-	-	468	463	0.6	0.7	6.861	A		
				3	78	19	-	-	-	78	79	0.1	0.2	7.144	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	92	23	1806	1222	0.075	92	93	0.1	0.1	3.763	A
						2	129	32	1806	1224	0.106	129	128	0.1	0.1	3.326	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	1806	1224	0.085	103	105	0.1	0.1	3.365	A		
	3				236	59	1806	1224	0.193	237	234	0.3	0.3	4.173	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	92	23	-	-	-	92	92	0.0	0.0	0.086	A		
				2	233	58	-	-	-	233	233	0.0	0.0	0.065	A		
				3	236	59	-	-	-	236	234	0.0	0.0	0.121	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:00 - 01:15

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	318	80	1264	900	0.354	321	320	1.0	0.5	6.820	A		
				3	3	0.70	617	426	0.007	3	3	0.0	0.0	6.636	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	1	0.35	447	312	0.004	1	2	0.0	0.0	8.056	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	449	112	1264	901	0.498	449	450	1.4	0.9	7.497	A		
		2	1	1	1	0.35	-	-	-	1	2	0.0	0.0	1.406	A		
				2	318	79	-	-	-	318	318	0.9	0.1	2.306	A		
				3	3	0.70	-	-	-	3	3	0.0	0.0	2.365	A		
				4	448	112	-	-	-	449	448	1.1	0.2	2.448	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	572	143	1651	1251	0.457	572	579	1.3	0.9	5.102	A
2	1				349	87	1651	1249	0.279	348	344	0.7	0.5	4.706	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	348	87	-	-	-	349	343	0.4	0.1	1.163	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	571	143	-	-	-	572	577	0.7	0.1	1.184	A		
3	Entry			1	1	1	4	1	964	575	0.008	5	5	0.0	0.0	5.228	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	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		371	93	1557	939	0.395	371	379	1.3	0.8	7.520	A		
			3		66	17	1557	941	0.070	66	67	0.2	0.1	6.824	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	4	1	-	-	-	4	5	0.0	0.0	1.565	A		
				2	371	93	-	-	-	371	377	0.7	0.1	1.977	A		
				3	66	17	-	-	-	66	66	0.2	0.0	1.815	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	73	18	1806	1330	0.055	73	75	0.1	0.1	3.246	A
						2	101	25	1806	1330	0.076	101	102	0.1	0.1	3.024	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	1806	1332	0.064	85	88	0.1	0.1	3.037	A		
	3				191	48	1806	1332	0.143	190	191	0.3	0.2	3.633	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	73	18	-	-	-	73	75	0.0	0.0	0.025	A		
				2	187	47	-	-	-	187	190	0.0	0.0	0.021	A		
				3	191	48	-	-	-	191	191	0.0	0.0	0.042	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:15 - 01:30

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	266	66	1264	959	0.277	267	267	0.5	0.4	5.777	A	
				3	2	0.58	528	396	0.006	2	2	0.0	0.0	5.729	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	2	1	1	0.37	366	275	0.005	1	1	0.0	0.0	6.567	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	371	93	1264	959	0.387	371	373	0.9	0.6	5.906	A	
	2	1	1	1	0.37	-	-	-	1	1	0.0	0.0	0.937	A		
			2	266	66	-	-	-	266	267	0.1	0.0	0.739	A		
			3	2	0.58	-	-	-	2	2	0.0	0.0	0.727	A		
			4	370	92	-	-	-	371	372	0.2	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					4	472	118	1651	1322	0.357	473	480	0.9	0.5	4.207	A
2			2	1	288	72	1651	1321	0.218	289	291	0.5	0.3	4.225	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	288	72	-	-	-	288	290	0.1	0.0	0.437	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	473	118	-	-	-	472	479	0.1	0.1	0.415	A		
3	Entry	1	1	1	4	0.88	783	514	0.007	3	3	0.0	0.0	4.037	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	316	79	1557	1046	0.302	315	316	0.8	0.5	5.764	A	
				3	53	13	1557	1044	0.051	53	56	0.1	0.1	5.348	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	4	0.88	-	-	-	4	3	0.0	0.0	0.250	A		
			2	316	79	-	-	-	316	315	0.1	0.0	0.613	A		
			3	53	13	-	-	-	53	55	0.0	0.0	0.680	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
4	Entry	1	1	1	62	16	1806	1409	0.044	62	62	0.1	0.1	3.003	A	
				2	84	21	1806	1409	0.060	84	83	0.1	0.1	2.736	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	2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	74	19	1806	1410	0.053	74	74	0.1	0.0	2.715	A	
				3	156	39	1806	1409	0.111	156	158	0.2	0.1	3.126	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	62	16	-	-	-	62	62	0.0	0.0	0.015	A		
			2	158	40	-	-	-	158	157	0.0	0.0	0.007	A		
			3	156	39	-	-	-	156	158	0.0	0.0	0.021	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D10 - | Base + Com Dev + CaPCAM (5000) | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	32.12	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	32.12	D

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	2119	✓	45.00
2	560	✓	110.00
3	886	✓	35.00
4	1419	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	Base + Com Dev + CaPCAM (5000)	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	459	100.000
2		ONE HOUR	✓	671	100.000
3		ONE HOUR	✓	866	100.000
4		ONE HOUR	✓	1402	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	11	341	2	105
	2	370	0	0	301
	3	2	852	12	0
	4	376	645	381	0

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
From	1	0	5	0	1
	2	4	0	11	2
	3	0	4	0	3
	4	1	1	1	0

Cyclist %

		To			
		1	2	3	4
From	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	101.53	18.1	51.8	F	437	655
2	4.00	0.9	2.7	A	635	952
3	20.91	6.4	19.3	C	820	1230
4	29.58	13.5	42.6	D	1296	1944

Main Results for each time segment

00:00 - 00:15

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	353	88	1462	355	355	586	0.0	0.9	8.708	A
2	520	130	384	519	518	1433	0.0	0.4	3.073	A
3	678	170	606	682	681	297	0.0	1.0	5.472	A
4	1071	268	978	1070	1067	311	0.0	1.6	4.135	A

00:15 - 00:30

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	425	106	1740	427	420	692	0.9	2.0	14.483	B
2	617	154	472	616	621	1695	0.4	0.7	3.430	A
3	805	201	720	806	803	367	1.0	1.9	8.341	A
4	1272	318	1159	1273	1266	367	1.6	2.5	6.566	A

00:30 - 00:45

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	522	131	2117	500	495	855	2.0	9.7	46.194	E
2	762	191	558	764	774	2059	0.7	0.7	3.998	A
3	978	244	888	973	971	433	1.9	6.4	19.026	C
4	1555	389	1409	1563	1518	451	2.5	10.0	19.941	C

00:45 - 01:00

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	537	134	2121	500	497	847	9.7	18.1	101.535	F
2	758	189	562	757	757	2058	0.7	0.9	3.944	A
3	984	246	883	989	997	436	6.4	5.2	20.909	C
4	1540	385	1429	1538	1545	443	10.0	13.5	29.578	D

01:00 - 01:15

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	429	107	1747	456	491	711	18.1	3.1	53.424	F
2	629	157	475	630	625	1728	0.9	0.6	3.576	A
3	799	200	735	803	816	369	5.2	1.9	9.842	A
4	1289	322	1164	1295	1315	375	13.5	2.6	11.635	B

01:15 - 01:30

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	355	89	1434	357	365	582	3.1	1.0	10.730	B
2	522	130	380	520	527	1411	0.6	0.5	3.203	A
3	676	169	603	674	681	296	1.9	1.4	6.469	A
4	1050	262	970	1047	1057	308	2.6	1.5	4.790	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.94	0.00	-0.01	2.19	2.79
2	0.40	0.00	0.00	0.84	1.54
3	1.04	0.00	0.08	2.55	3.36
4	1.58	0.00	0.60	3.61	4.71

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.99	0.00	0.90	4.31	5.56
2	0.70	0.00	0.00	1.58	2.32
3	1.87	0.00	0.65	4.70	5.63
4	2.46	0.00	1.31	5.13	7.42

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	9.66	0.00	6.19	21.50	31.25
2	0.74	0.00	0.00	1.78	2.53
3	6.36	0.00	3.90	13.50	19.25
4	9.97	0.00	6.88	23.13	31.50

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	18.05	-0.05	12.50	43.75	51.83
2	0.85	0.00	-0.01	1.95	2.73
3	5.24	0.00	3.16	11.75	15.25
4	13.49	-0.03	8.58	31.50	42.63

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	3.14	0.00	1.18	6.90	9.63
2	0.60	0.00	0.00	1.06	1.92
3	1.85	0.00	0.30	4.90	7.13
4	2.61	0.00	1.44	4.90	6.75

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.00	0.00	0.12	1.88	3.54
2	0.54	0.00	0.00	1.34	1.83
3	1.39	0.00	0.31	3.10	4.54
4	1.47	0.00	0.56	2.92	4.31

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	268	640	0.418	267	268	0.0	0.8	8.490	A
			2	1, 4	87	640	0.136	87	87	0.0	0.1	6.055	A
	Exit	1	1	(1, 2, 3, 4)	353			355	359	0.0	0.0	0.830	A
			1		586			586	582	0.0	0.0	0.000	A
2	Entry	1	1	3, 4	230	1455	0.158	230	230	0.0	0.2	2.925	A
			2	1, 2	290	1455	0.199	289	287	0.0	0.2	3.114	A
	Exit	1	1	(1, 2, 3, 4)	520			519	519	0.0	0.0	0.044	A
			1		1433			1433	1429	0.0	0.0	0.000	A
3	Entry	1	1	1, 4	1	1320	0.001	1	2	0.0	0.0	2.514	A
			2	2, 3	680	1320	0.515	681	679	0.0	0.9	4.602	A
	Exit	1	1	(1, 2, 3, 4)	678			681	684	0.0	0.1	0.872	A
			1		297			297	299	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	537	1226	0.438	537	532	0.0	0.8	3.926	A
			2	2, 3, 4	534	1226	0.435	533	535	0.0	0.7	3.865	A
	Exit	1	1	(1, 2, 3, 4)	1071			1071	1073	0.0	0.1	0.239	A
			1		311			311	311	0.0	0.0	0.000	A

00:15 - 00:30

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	321	546	0.588	323	319	0.8	1.3	12.529	B
			2	1, 4	106	546	0.193	104	101	0.1	0.3	7.740	A
	Exit	1	1	(1, 2, 3, 4)	425			427	422	0.0	0.5	3.126	A
2	Entry	1	1	3, 4	271	1403	0.193	272	273	0.2	0.2	3.211	A
			2	1, 2	346	1403	0.246	344	349	0.2	0.5	3.415	A
	Exit	1	1	(1, 2, 3, 4)	617			617	622	0.0	0.0	0.106	A
3	Entry	1	1	1, 4	2	1258	0.001	2	2	0.0	0.0	2.597	A
			2	2, 3	805	1258	0.640	804	801	0.9	1.4	5.940	A
	Exit	1	1	(1, 2, 3, 4)	805			807	804	0.1	0.5	2.400	A
4	Entry	1	1	1, 2	633	1128	0.561	631	630	0.8	1.0	5.211	A
			2	2, 3, 4	640	1128	0.568	642	637	0.7	0.9	5.216	A
	Exit	1	1	(1, 2, 3, 4)	1272			1273	1268	0.1	0.5	1.351	A

00:30 - 00:45

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	378	418	0.904	376	371	1.3	2.5	19.602	C
			2	1, 4	123	418	0.295	124	123	0.3	0.5	11.802	B
	Exit	1	1	(1, 2, 3, 4)	522			501	500	0.5	6.7	28.286	D
2	Entry	1	1	3, 4	340	1351	0.252	340	343	0.2	0.3	3.569	A
			2	1, 2	422	1351	0.313	424	431	0.5	0.4	3.880	A
	Exit	1	1	(1, 2, 3, 4)	762			762	774	0.0	0.1	0.256	A
3	Entry	1	1	1, 4	2	1168	0.002	2	2	0.0	0.0	2.494	A
			2	2, 3	971	1168	0.831	970	969	1.4	2.3	7.720	A
	Exit	1	1	(1, 2, 3, 4)	978			973	975	0.5	4.1	11.296	B
4	Entry	1	1	1, 2	784	994	0.789	783	761	1.0	1.6	7.161	A
			2	2, 3, 4	779	994	0.784	779	757	0.9	1.6	7.201	A
	Exit	1	1	(1, 2, 3, 4)	1555			1563	1523	0.5	6.8	12.745	B

00:45 - 01:00

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	375	417	0.900	374	372	2.5	2.7	23.988	C
			2	1, 4	124	417	0.298	126	125	0.5	0.4	13.538	B
	Exit	1	1	(1, 2, 3, 4)	537			499	497	6.7	15.0	80.439	F
2	Entry	1	1	3, 4	330	1348	0.245	329	333	0.3	0.4	3.545	A
			2	1, 2	428	1348	0.317	428	424	0.4	0.5	3.917	A
	Exit	1	1	(1, 2, 3, 4)	758			758	758	0.1	0.0	0.194	A
3	Entry	1	1	1, 4	2	1171	0.002	2	2	0.0	0.0	3.090	A
			2	2, 3	986	1171	0.842	987	995	2.3	2.2	7.922	A
	Exit	1	1	(1, 2, 3, 4)	984			989	997	4.1	3.0	13.000	B
4	Entry	1	1	1, 2	764	983	0.778	766	772	1.6	1.5	7.727	A
			2	2, 3, 4	770	983	0.784	772	773	1.6	1.6	7.773	A
	Exit	1	1	(1, 2, 3, 4)	1540			1534	1544	6.8	10.4	21.818	C

01:00 - 01:15

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	348	543	0.640	350	375	2.7	1.5	17.165	C
			2	1, 4	105	543	0.193	106	116	0.4	0.2	9.998	A
	Exit	1	1	(1, 2, 3, 4)	429			453	485	15.0	1.5	38.698	E
2	Entry	1	1	3, 4	278	1401	0.199	279	275	0.4	0.2	3.253	A
			2	1, 2	351	1401	0.251	351	350	0.5	0.4	3.636	A
	Exit	1	1	(1, 2, 3, 4)	629			630	624	0.0	0.0	0.110	A
3	Entry	1	1	1, 4	2	1250	0.001	2	2	0.0	0.0	2.918	A
			2	2, 3	797	1250	0.638	802	814	2.2	1.2	6.262	A
	Exit	1	1	(1, 2, 3, 4)	799			799	812	3.0	0.7	3.630	A
4	Entry	1	1	1, 2	645	1126	0.573	644	656	1.5	1.0	5.816	A
			2	2, 3, 4	649	1126	0.577	651	660	1.6	1.1	5.860	A
	Exit	1	1	(1, 2, 3, 4)	1289			1295	1311	10.4	0.6	5.874	A

01:15 - 01:30

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	272	650	0.419	273	277	1.5	0.7	9.852	A
			2	1, 4	84	650	0.129	83	87	0.2	0.2	6.651	A
	Exit	1	1	(1, 2, 3, 4)	355			356	362	1.5	0.1	1.789	A
2	Entry	1	1	3, 4	233	1458	0.160	232	232	0.2	0.3	3.025	A
			2	1, 2	289	1458	0.198	288	294	0.4	0.3	3.237	A
	Exit	1	1	(1, 2, 3, 4)	522			522	526	0.0	0.0	0.061	A
3	Entry	1	1	1, 4	2	1321	0.001	2	1	0.0	0.0	2.510	A
			2	2, 3	673	1321	0.509	672	679	1.2	1.1	5.223	A
	Exit	1	1	(1, 2, 3, 4)	676			675	680	0.7	0.3	1.269	A
4	Entry	1	1	1, 2	523	1231	0.425	522	525	1.0	0.7	4.427	A
			2	2, 3, 4	525	1231	0.427	525	532	1.1	0.6	4.367	A
	Exit	1	1	(1, 2, 3, 4)	1050			1048	1055	0.6	0.1	0.400	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.76	0.00	0.00	3.00	3.00
			2	0.14	0.00	0.00	0.18	0.73
	Exit	1	1	0.03	0.00	0.00	0.00	0.00
2	Entry	1	1	0.15	0.00	0.00	0.28	0.77
			2	0.21	0.00	0.00	0.43	0.95
	Exit	1	1	0.03	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.92	0.00	0.08	2.28	2.66
	Exit	1	1	0.12	0.00	0.00	0.00	0.28
4	Entry	1	1	0.79	0.00	0.07	1.78	3.00
			2	0.68	0.00	0.00	1.78	3.00
	Exit	1	1	0.10	0.00	0.00	0.00	0.42

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.25	0.00	0.50	2.61	2.82
			2	0.28	0.00	0.00	0.81	1.43
	Exit	1	1	0.46	0.00	0.00	1.06	2.06
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.23	0.00	0.00	0.57	0.84
			2	0.46	0.00	0.00	1.15	1.93
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.39	0.00	0.65	2.70	2.87
	Exit	1	1	0.48	0.00	0.00	1.63	2.63
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.99	0.00	0.32	3.00	3.00
			2	0.92	0.00	0.17	3.00	3.00
	Exit	1	1	0.54	0.00	0.00	1.90	3.75
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	2.54	0.00	2.36	2.96	4.00
			2	0.48	0.00	0.00	1.28	1.77
	Exit	1	1	6.65	0.00	2.63	18.50	26.88
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.30	0.00	0.00	0.72	0.95
			2	0.39	0.00	0.00	0.94	1.91
	Exit	1	1	0.06	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	2.28	0.00	2.23	2.87	2.95
	Exit	1	1	4.08	0.00	0.90	10.50	16.25
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.65	0.00	1.16	3.00	3.00
			2	1.57	0.00	1.12	3.00	3.00
	Exit	1	1	6.76	0.00	3.17	18.25	27.75
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	2.71	0.00	2.41	2.94	4.00
			2	0.37	0.00	0.00	0.90	1.66
	Exit	1	1	14.97	0.00	9.75	39.50	48.25
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.40	0.00	0.00	0.92	1.66
			2	0.45	0.00	0.00	1.32	1.78
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	2.23	0.00	2.20	2.87	2.95
	Exit	1	1	3.01	0.00	0.16	8.75	12.25
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.52	0.00	0.96	3.00	3.00
			2	1.60	0.00	1.05	3.00	3.00
	Exit	1	1	10.37	0.00	5.08	27.50	37.50
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.51	0.00	0.98	2.70	2.87
			2	0.17	0.00	0.00	0.36	0.79
	Exit	1	1	1.46	0.00	0.00	3.58	5.75
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.22	0.00	0.00	0.52	0.84
			2	0.37	0.00	0.00	0.92	1.44
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.18	0.00	0.30	2.66	2.87
	Exit	1	1	0.67	0.00	0.00	1.92	3.63
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.97	0.00	0.21	3.00	3.00
			2	1.06	0.00	0.32	3.00	3.00
	Exit	1	1	0.58	0.00	0.00	1.44	2.81
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.71	0.00	0.00	1.86	2.48
			2	0.22	0.00	0.00	0.56	0.89
	Exit	1	1	0.08	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.28	0.00	0.00	0.73	1.16
			2	0.26	0.00	0.00	0.68	1.18
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	1.07	0.00	0.30	2.48	2.76
	Exit	1	1	0.31	0.00	0.00	-0.13	1.54
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.70	0.00	0.00	1.68	3.00
			2	0.64	0.00	0.00	1.66	3.00
	Exit	1	1	0.13	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	267	67	1137	639	0.417	266	266	0.0	0.8	8.491	A
				3	1	0.33	323	209	0.006	1	1	0.0	0.0	8.323	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	2	1	6	2	931	556	0.011	7	7	0.0	0.0	5.692	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	81	20	1137	637	0.126	81	80	0.0	0.1	6.088	A
		2	1	1	6	2	-	-	-	6	7	0.0	0.0	0.496	A
				2	265	66	-	-	-	267	270	0.0	0.0	0.926	A
				3	1	0.35	-	-	-	1	1	0.0	0.0	1.927	A
				4	80	20	-	-	-	81	81	0.0	0.0	0.532	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	230	57	1686	1455	0.158	230	230	0.0	0.2	2.925	A
		2	2	1	290	72	1686	1456	0.199	289	287	0.0	0.2	3.114	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	290	72	-	-	-	290	288	0.0	0.0	0.057	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	230	57	-	-	-	230	231	0.0	0.0	0.028	A
3	Entry	1	1	1	1	0.29	510	422	0.003	1	2	0.0	0.0	2.514	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	671	168	1647	1319	0.508	672	670	0.0	0.9	4.603	A
				3	9	2	1477	1194	0.008	9	9	0.0	0.0	4.480	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	1	0.29	-	-	-	1	2	0.0	0.0	0.781	A
				2	668	167	-	-	-	671	674	0.0	0.1	0.876	A
				3	9	2	-	-	-	9	9	0.0	0.0	0.591	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	288	72	1753	1223	0.235	289	286	0.0	0.4	4.318	A
				2	249	62	1753	1223	0.204	248	246	0.0	0.4	3.470	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	2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	247	62	1753	1221	0.202	247	246	0.0	0.3	3.421	A
				3	287	72	1753	1222	0.235	287	289	0.0	0.4	4.243	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	288	72	-	-	-	288	288	0.0	0.0	0.255	A
				2	496	124	-	-	-	495	495	0.0	0.0	0.212	A
				3	287	72	-	-	-	287	290	0.0	0.0	0.269	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:15 - 00:30

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	319	80	1137	545	0.585	321	317	0.8	1.2	12.544	B		
				3	2	0.50	477	235	0.009	2	2	0.0	0.0	10.440	B		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	10	2	1019	492	0.019	9	9	0.0	0.0	8.219	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	96	24	1137	545	0.176	95	92	0.1	0.2	7.694	A		
		2	1	1	10	2	-	-	-	10	9	0.0	0.0	2.763	A		
				2	317	79	-	-	-	319	319	0.0	0.4	3.406	A		
				3	2	0.50	-	-	-	2	2	0.0	0.0	3.309	A		
				4	95	24	-	-	-	96	92	0.0	0.1	2.226	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	271	68	1686	1400	0.194	272	273	0.2	0.2	3.211	A
2	1				346	86	1686	1402	0.247	344	349	0.2	0.5	3.415	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	346	86	-	-	-	346	350	0.0	0.0	0.111	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	271	68	-	-	-	271	273	0.0	0.0	0.099	A		
3	Entry			1	1	1	2	0.45	627	485	0.004	2	2	0.0	0.0	2.597	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	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		794	199	1647	1259	0.631	794	790	0.9	1.4	5.937	A		
			3		11	3	1509	1152	0.009	11	10	0.0	0.0	6.160	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.46	-	-	-	2	2	0.0	0.0	1.969	A		
				2	793	198	-	-	-	794	792	0.1	0.5	2.401	A		
				3	11	3	-	-	-	11	10	0.0	0.0	2.418	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	339	85	1753	1126	0.301	337	338	0.4	0.6	5.788	A
						2	294	73	1753	1127	0.261	294	292	0.4	0.4	4.539	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				286	72	1753	1127	0.254	288	290	0.3	0.3	4.551	A		
	3				354	89	1753	1126	0.315	355	346	0.4	0.6	5.773	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	339	85	-	-	-	339	339	0.0	0.2	1.441	A		
				2	579	145	-	-	-	580	582	0.0	0.2	1.254	A		
				3	354	89	-	-	-	354	347	0.0	0.1	1.427	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	375	94	1137	417	0.900	373	369	1.2	2.5	19.598	C
				3	2	0.62	513	203	0.012	2	2	0.0	0.0	20.176	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	13	3	1100	419	0.031	13	12	0.0	0.1	12.192	B
				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	110	28	1137	418	0.264	112	111	0.2	0.4	11.758	B
		2	1	1	13	3	-	-	-	13	12	0.0	0.1	29.769	D
				2	391	98	-	-	-	375	374	0.4	5.0	28.901	D
				3	2	0.56	-	-	-	2	2	0.0	0.0	29.005	D
				4	116	29	-	-	-	110	112	0.1	1.5	26.129	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	340	85	1686	1350	0.252	340	343	0.2	0.3	3.569	A
			2	1	422	106	1686	1349	0.313	424	431	0.5	0.4	3.880	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	422	106	-	-	-	422	430	0.0	0.0	0.272	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	340	85	-	-	-	340	343	0.0	0.0	0.237	A
3	Entry	1	1	1	2	0.58	637	457	0.005	2	2	0.0	0.0	2.494	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	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	959	240	1647	1168	0.821	958	956	1.4	2.2	7.727	A
				3	12	3	1593	1126	0.011	12	13	0.0	0.0	7.301	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.52	-	-	-	2	2	0.0	0.0	11.314	B
				2	963	241	-	-	-	959	959	0.5	4.0	11.303	B
				3	12	3	-	-	-	12	13	0.0	0.1	10.773	B
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	417	104	1753	993	0.420	416	409	0.6	0.9	7.888	A
				2	368	92	1753	994	0.370	367	352	0.4	0.7	6.315	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	360	90	1753	994	0.362	360	348	0.3	0.6	6.284	A
				3	419	105	1753	993	0.422	419	409	0.6	1.0	7.980	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	413	103	-	-	-	417	411	0.2	1.9	12.829	B
				2	725	181	-	-	-	728	702	0.2	3.1	12.586	B
				3	417	104	-	-	-	419	411	0.1	1.8	12.935	B
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:45 - 01:00

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	373	93	1137	414	0.900	372	370	2.5	2.7	23.979	C		
				3	2	0.52	440	164	0.013	2	2	0.0	0.0	25.729	D		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	12	3	1063	389	0.030	12	12	0.1	0.0	13.322	B		
				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	113	28	1137	414	0.272	113	113	0.4	0.3	13.561	B		
		2	1	1	13	3	-	-	-	12	12	0.1	0.4	71.246	F		
				2	401	100	-	-	-	373	371	5.0	11.4	82.222	F		
				3	3	0.66	-	-	-	2	2	0.0	0.1	71.279	F		
				4	120	30	-	-	-	113	112	1.5	3.1	75.922	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	330	83	1686	1348	0.245	329	333	0.3	0.4	3.545	A
2	1				428	107	1686	1347	0.318	428	424	0.4	0.5	3.917	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	428	107	-	-	-	428	424	0.0	0.0	0.215	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	330	82	-	-	-	330	334	0.0	0.0	0.169	A		
3	Entry			1	1	1	2	0.62	669	475	0.005	2	2	0.0	0.0	3.090	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	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		972	243	1647	1171	0.830	972	981	2.2	2.2	7.924	A		
			3		15	4	1604	1142	0.013	15	14	0.0	0.0	7.767	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.62	-	-	-	2	2	0.0	0.0	12.127	B		
				2	967	242	-	-	-	972	981	4.0	3.0	13.002	B		
				3	14	4	-	-	-	15	14	0.1	0.0	12.973	B		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	403	101	1753	982	0.410	404	415	0.9	0.9	8.579	A
						2	361	90	1753	982	0.368	362	357	0.7	0.6	6.735	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				352	88	1753	981	0.359	353	355	0.6	0.7	6.799	A		
	3				418	105	1753	982	0.426	420	418	1.0	0.9	8.602	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	407	102	-	-	-	403	415	1.9	2.9	22.364	C		
				2	713	178	-	-	-	713	712	3.1	4.6	21.393	C		
				3	420	105	-	-	-	418	418	1.8	2.9	21.997	C		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:00 - 01:15

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	346	87	1137	544	0.637	348	374	2.7	1.5	17.173	C
				3	2	0.46	425	190	0.010	2	2	0.0	0.0	15.566	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	10	2	1071	504	0.019	10	12	0.0	0.0	9.406	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	95	24	1137	544	0.175	96	104	0.3	0.2	10.065	B
		2	1	1	9	2	-	-	-	10	12	0.4	0.0	41.672	E
				2	328	82	-	-	-	346	369	11.4	1.2	39.466	E
				3	2	0.43	-	-	-	2	2	0.1	0.0	24.362	C
				4	91	23	-	-	-	95	103	3.1	0.3	35.969	E
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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	278	70	1686	1399	0.199	279	275	0.4	0.2	3.253	A
			2	1	351	88	1686	1401	0.251	351	350	0.5	0.4	3.636	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	351	88	-	-	-	351	350	0.0	0.0	0.122	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	278	70	-	-	-	278	274	0.0	0.0	0.094	A
3	Entry	1	1	1	2	0.46	637	474	0.004	2	2	0.0	0.0	2.918	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	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	786	196	1647	1250	0.629	790	803	2.2	1.2	6.264	A
				3	11	3	1551	1176	0.009	12	11	0.0	0.0	6.099	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.46	-	-	-	2	2	0.0	0.0	4.283	A
				2	786	196	-	-	-	786	799	3.0	0.7	3.630	A
				3	11	3	-	-	-	11	11	0.0	0.0	3.514	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	349	87	1753	1126	0.310	349	352	0.9	0.6	6.457	A
				2	296	74	1753	1126	0.263	295	303	0.6	0.4	5.075	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	296	74	1753	1126	0.263	295	302	0.7	0.5	5.139	A
				3	354	88	1753	1127	0.314	356	358	0.9	0.6	6.470	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	347	87	-	-	-	349	351	2.9	0.2	6.106	A
				2	590	148	-	-	-	592	604	4.6	0.2	5.597	A
				3	352	88	-	-	-	354	356	2.9	0.2	6.116	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:15 - 01:30

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	271	68	1137	650	0.417	272	276	1.5	0.7	9.861	A		
				3	1	0.27	308	175	0.006	1	1	0.0	0.0	8.017	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	8	2	1005	559	0.014	7	8	0.0	0.0	7.014	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	76	19	1137	650	0.117	76	79	0.2	0.2	6.613	A		
		2	1	1	8	2	-	-	-	8	8	0.0	0.0	1.927	A		
				2	271	68	-	-	-	271	273	1.2	0.1	1.901	A		
				3	1	0.27	-	-	-	1	1	0.0	0.0	0.321	A		
				4	76	19	-	-	-	76	79	0.3	0.0	1.429	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	233	58	1686	1458	0.160	232	232	0.2	0.3	3.025	A
2	1				289	72	1686	1457	0.198	288	294	0.4	0.3	3.237	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	289	72	-	-	-	289	294	0.0	0.0	0.066	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	233	58	-	-	-	233	233	0.0	0.0	0.055	A		
3	Entry			1	1	1	2	0.45	510	401	0.004	2	1	0.0	0.0	2.510	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	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		662	166	1647	1321	0.501	661	670	1.2	1.1	5.224	A		
			3		11	3	1424	1134	0.009	11	9	0.0	0.0	5.173	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.45	-	-	-	2	1	0.0	0.0	0.908	A		
				2	664	166	-	-	-	662	670	0.7	0.3	1.268	A		
				3	11	3	-	-	-	11	9	0.0	0.0	1.440	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	285	71	1753	1229	0.232	285	281	0.6	0.4	4.926	A
						2	238	60	1753	1230	0.193	238	245	0.4	0.3	3.855	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				240	60	1753	1231	0.195	240	244	0.5	0.2	3.843	A		
	3				286	71	1753	1229	0.232	285	288	0.6	0.4	4.811	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	285	71	-	-	-	285	280	0.2	0.0	0.487	A		
				2	479	120	-	-	-	478	487	0.2	0.1	0.329	A		
				3	286	71	-	-	-	286	287	0.2	0.0	0.436	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D11 - | Base + Com Dev + CaPCAM (2550) 30/70 SPLIT | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	10.47	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.47	B

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	958	✓	45.00
2	924	✓	110.00
3	1461	✓	35.00
4	827	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	Base + Com Dev + CaPCAM (2550) 30/70 SPLIT	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	815	100.000
2		ONE HOUR	✓	722	100.000
3		ONE HOUR	✓	419	100.000
4		ONE HOUR	✓	468	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	2	284	3	526
	2	230	0	0	492
	3	4	343	72	0
	4	81	185	202	0

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
From	1	0	11	0	2
	2	21	0	13	2
	3	25	12	1	4
	4	4	5	4	0

Cyclist %

		To			
		1	2	3	4
From	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	18.03	5.9	19.2	C	793	1189
2	6.25	1.4	4.7	A	715	1073
3	10.95	2.1	7.3	B	425	637
4	3.43	0.5	1.9	A	452	677

Main Results for each time segment

00:00 - 00:15

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	641	160	638	639	637	291	0.0	1.2	5.870	A
2	599	150	617	600	591	660	0.0	0.8	3.903	A
3	334	83	994	332	341	223	0.0	0.6	5.059	A
4	377	94	553	376	366	773	0.0	0.4	2.705	A

00:15 - 00:30

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	773	193	785	768	758	330	1.2	2.3	8.330	A
2	699	175	748	700	695	805	0.8	0.9	4.618	A
3	418	105	1183	419	419	265	0.6	0.5	6.552	A
4	443	111	670	445	445	931	0.4	0.3	3.128	A

00:30 - 00:45

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	955	239	956	975	946	413	2.3	3.8	16.548	C
2	860	215	938	860	864	993	0.9	1.4	6.244	A
3	520	130	1479	520	508	320	0.5	1.5	10.486	B
4	540	135	830	539	537	1168	0.3	0.5	3.353	A

00:45 - 01:00

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	958	240	959	950	944	404	3.8	5.9	18.027	C
2	849	212	911	853	862	998	1.4	1.3	6.246	A
3	527	132	1444	520	512	320	1.5	2.1	10.947	B
4	537	134	824	539	542	1141	0.5	0.4	3.433	A

01:00 - 01:15

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	776	194	753	777	793	333	5.9	1.9	10.293	B
2	700	175	733	698	717	797	1.3	1.1	5.106	A
3	399	100	1179	397	414	252	2.1	1.0	7.248	A
4	439	110	648	438	433	928	0.4	0.4	3.174	A

01:15 - 01:30

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	653	163	654	654	650	283	1.9	1.1	6.320	A
2	583	146	627	582	583	681	1.1	0.7	4.058	A
3	350	87	994	350	357	216	1.0	0.6	5.629	A
4	374	93	562	375	369	782	0.4	0.2	2.795	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.18	0.00	0.36	2.37	3.30
2	0.76	0.00	0.00	1.87	3.26
3	0.63	0.00	0.00	1.51	1.94
4	0.35	0.00	0.00	0.77	1.10

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.26	0.00	0.67	4.65	9.60
2	0.94	0.00	0.00	2.23	2.90
3	0.53	0.00	0.00	1.51	1.87
4	0.26	0.00	0.00	0.63	0.87

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	3.79	0.00	2.09	8.53	11.30
2	1.37	0.00	0.39	3.32	4.65
3	1.48	0.00	0.31	3.77	5.46
4	0.54	0.00	0.00	1.23	1.90

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	5.89	0.00	2.45	16.87	19.15
2	1.31	0.00	0.32	2.87	4.33
3	2.12	0.00	0.60	5.53	7.30
4	0.36	0.00	0.00	1.08	1.66

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.85	0.00	0.58	3.82	4.77
2	1.14	0.00	0.14	2.58	4.10
3	1.03	0.00	0.00	2.66	3.77
4	0.36	0.00	0.00	0.86	1.46

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.14	0.00	0.08	2.66	3.77
2	0.71	0.00	0.00	1.51	1.94
3	0.63	0.00	0.00	1.53	3.30
4	0.22	0.00	0.00	0.54	0.88

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	245	982	0.249	244	242	0.0	0.3	5.058	A
			2	1, 4	396	982	0.403	394	396	0.0	0.7	5.473	A
	Exit	1	1	(1, 2, 3, 4)	641			640	642	0.0	0.1	0.543	A
			1	1		291			291	281	0.0	0.0	0.000
2	Entry	1	1	3, 4	382	1299	0.294	381	379	0.0	0.5	3.685	A
			2	1, 2	218	1299	0.168	219	212	0.0	0.2	3.883	A
	Exit	1	1	(1, 2, 3, 4)	599			599	594	0.0	0.1	0.154	A
			1	1		660			660	666	0.0	0.0	0.000
3	Entry	1	1	1, 4	5	1110	0.005	5	5	0.0	0.0	3.834	A
			2	2, 3	328	1110	0.296	327	336	0.0	0.6	4.720	A
	Exit	1	1	(1, 2, 3, 4)	334			333	343	0.0	0.1	0.343	A
			1	1		223			223	216	0.0	0.0	0.000
4	Entry	1	1	1, 2	141	1481	0.095	141	138	0.0	0.1	2.557	A
			2	2, 3, 4	236	1481	0.160	235	228	0.0	0.2	2.774	A
	Exit	1	1	(1, 2, 3, 4)	377			377	367	0.0	0.0	0.012	A
			1	1		773			773	773	0.0	0.0	0.000

00:15 - 00:30

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	285	915	0.312	285	285	0.3	0.5	5.876	A
			2	1, 4	484	915	0.529	483	473	0.7	1.0	6.901	A
	Exit	1	1	(1, 2, 3, 4)	773			769	759	0.1	0.8	1.782	A
2	Entry	1	1	3, 4	450	1226	0.367	450	445	0.5	0.6	4.278	A
			2	1, 2	249	1226	0.203	250	249	0.2	0.3	4.353	A
	Exit	1	1	(1, 2, 3, 4)	699			699	695	0.1	0.0	0.315	A
3	Entry	1	1	1, 4	4	1021	0.004	4	5	0.0	0.0	4.366	A
			2	2, 3	415	1021	0.406	414	415	0.6	0.5	5.826	A
	Exit	1	1	(1, 2, 3, 4)	418			419	419	0.1	0.0	0.746	A
4	Entry	1	1	1, 2	168	1409	0.119	169	173	0.1	0.1	2.956	A
			2	2, 3, 4	275	1409	0.195	276	272	0.2	0.2	3.194	A
	Exit	1	1	(1, 2, 3, 4)	443			443	445	0.0	0.0	0.027	A

00:30 - 00:45

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	353	838	0.422	356	354	0.5	0.7	7.462	A
			2	1, 4	619	838	0.739	618	593	1.0	1.6	9.165	A
	Exit	1	1	(1, 2, 3, 4)	955			973	950	0.8	1.5	7.973	A
2	Entry	1	1	3, 4	552	1121	0.492	551	555	0.6	0.8	5.428	A
			2	1, 2	307	1121	0.274	309	309	0.3	0.3	4.888	A
	Exit	1	1	(1, 2, 3, 4)	860			859	865	0.0	0.2	0.985	A
3	Entry	1	1	1, 4	6	881	0.007	6	5	0.0	0.0	4.898	A
			2	2, 3	514	881	0.584	514	503	0.5	1.1	7.935	A
	Exit	1	1	(1, 2, 3, 4)	520			521	510	0.0	0.3	2.581	A
4	Entry	1	1	1, 2	210	1310	0.160	207	208	0.1	0.3	3.086	A
			2	2, 3, 4	329	1310	0.251	332	329	0.2	0.2	3.431	A
	Exit	1	1	(1, 2, 3, 4)	540			539	538	0.0	0.0	0.055	A

00:45 - 01:00

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	360	837	0.430	359	355	0.7	0.7	7.491	A
			2	1, 4	593	837	0.708	591	588	1.6	1.7	9.657	A
	Exit	1	1	(1, 2, 3, 4)	958			952	944	1.5	3.4	9.140	A
2	Entry	1	1	3, 4	549	1136	0.483	551	559	0.8	0.8	5.416	A
			2	1, 2	301	1136	0.265	301	304	0.3	0.4	5.001	A
	Exit	1	1	(1, 2, 3, 4)	849			849	862	0.2	0.2	0.962	A
3	Entry	1	1	1, 4	6	898	0.007	6	6	0.0	0.0	4.959	A
			2	2, 3	517	898	0.576	514	505	1.1	1.4	8.255	A
	Exit	1	1	(1, 2, 3, 4)	527			523	513	0.3	0.7	2.718	A
4	Entry	1	1	1, 2	210	1315	0.160	211	214	0.3	0.1	3.212	A
			2	2, 3, 4	327	1315	0.249	329	327	0.2	0.2	3.500	A
	Exit	1	1	(1, 2, 3, 4)	537			537	541	0.0	0.0	0.047	A

01:00 - 01:15

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	296	930	0.319	296	298	0.7	0.5	6.591	A
			2	1, 4	481	930	0.517	482	495	1.7	1.0	7.478	A
	Exit	1	1	(1, 2, 3, 4)	776			777	789	3.4	0.4	3.177	A
2	Entry	1	1	3, 4	448	1235	0.362	449	460	0.8	0.5	4.731	A
			2	1, 2	252	1235	0.204	249	257	0.4	0.5	4.588	A
	Exit	1	1	(1, 2, 3, 4)	700			700	717	0.2	0.1	0.423	A
3	Entry	1	1	1, 4	5	1022	0.005	5	5	0.0	0.0	5.084	A
			2	2, 3	393	1022	0.384	392	409	1.4	0.8	6.292	A
	Exit	1	1	(1, 2, 3, 4)	399			398	412	0.7	0.2	0.986	A
4	Entry	1	1	1, 2	169	1423	0.119	169	167	0.1	0.1	2.959	A
			2	2, 3, 4	269	1423	0.189	269	266	0.2	0.2	3.250	A
	Exit	1	1	(1, 2, 3, 4)	439			439	433	0.0	0.0	0.037	A

01:15 - 01:30

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	240	975	0.246	243	242	0.5	0.3	5.451	A
			2	1, 4	412	975	0.423	412	408	1.0	0.7	5.879	A
	Exit	1	1	(1, 2, 3, 4)	653			652	648	0.4	0.1	0.604	A
2	Entry	1	1	3, 4	372	1294	0.288	372	378	0.5	0.4	3.838	A
			2	1, 2	210	1294	0.162	210	205	0.5	0.3	4.080	A
	Exit	1	1	(1, 2, 3, 4)	583			582	582	0.1	0.0	0.146	A
3	Entry	1	1	1, 4	5	1110	0.004	5	4	0.0	0.0	4.646	A
			2	2, 3	345	1110	0.311	345	353	0.8	0.5	5.113	A
	Exit	1	1	(1, 2, 3, 4)	350			350	356	0.2	0.1	0.539	A
4	Entry	1	1	1, 2	147	1476	0.100	147	144	0.1	0.1	2.635	A
			2	2, 3, 4	227	1476	0.154	227	226	0.2	0.1	2.874	A
	Exit	1	1	(1, 2, 3, 4)	374			374	369	0.0	0.0	0.014	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.33	0.00	0.00	0.84	1.46
			2	0.74	0.00	0.08	1.51	2.08
	Exit	1	1	0.11	0.00	0.00	0.00	0.00
2	Entry	1	1	0.46	0.00	0.00	1.23	1.90
			2	0.24	0.00	0.00	0.69	2.00
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.57	0.00	0.00	1.51	1.94
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
4	Entry	1	1	0.11	0.00	0.00	-0.05	0.54
			2	0.24	0.00	0.00	0.60	0.89
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.47	0.00	0.00	1.33	1.91
			2	1.01	0.00	0.13	3.00	3.00
	Exit	1	1	0.78	0.00	0.00	1.20	6.30
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.61	0.00	0.00	1.46	1.93
			2	0.31	0.00	0.00	0.86	1.55
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.53	0.00	0.00	1.51	1.87
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.10	0.00	0.00	0.00	0.47
			2	0.16	0.00	0.00	1.00	1.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.74	0.00	0.00	1.94	2.61
			2	1.55	0.00	0.91	2.73	2.88
	Exit	1	1	1.49	0.00	0.00	3.60	8.30
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.83	0.00	0.00	3.00	3.00
			2	0.34	0.00	0.00	0.83	1.77
	Exit	1	1	0.19	0.00	0.00	0.15	1.33
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.14	0.00	0.31	2.51	2.78
	Exit	1	1	0.34	0.00	0.00	0.77	2.33
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.31	0.00	0.00	0.74	1.10
			2	0.19	0.00	0.00	0.47	0.86
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.73	0.00	0.00	2.20	2.79
			2	1.72	0.00	1.40	2.75	2.89
	Exit	1	1	3.44	0.00	0.00	13.30	15.65
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.77	0.00	0.00	3.00	3.00
			2	0.35	0.00	0.00	0.89	1.66
	Exit	1	1	0.19	0.00	0.00	0.00	1.15
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.43	0.00	0.60	2.81	2.98
	Exit	1	1	0.69	0.00	0.00	2.40	4.30
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.14	0.00	0.00	0.09	0.76
			2	0.22	0.00	0.00	0.58	0.95
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.53	0.00	0.00	1.43	2.26
			2	0.97	0.00	0.00	3.00	3.00
	Exit	1	1	0.35	0.00	0.00	0.32	1.43
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.53	0.00	0.00	1.60	3.00
			2	0.53	0.00	0.00	1.60	2.10
	Exit	1	1	0.07	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.83	0.00	0.00	2.38	2.78
	Exit	1	1	0.20	0.00	0.00	0.00	0.43
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.13	0.00	0.00	0.07	0.59
			2	0.22	0.00	0.00	0.55	0.94
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.31	0.00	0.00	0.76	1.43
			2	0.68	0.00	0.00	2.07	2.59
	Exit	1	1	0.15	0.00	0.00	0.00	0.43
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.37	0.00	0.00	0.92	1.55
			2	0.30	0.00	0.00	0.74	1.33
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.50	0.00	0.00	1.53	2.47
	Exit	1	1	0.13	0.00	0.00	0.00	0.30
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.07	0.00	0.00	0.00	0.26
			2	0.15	0.00	0.00	1.00	1.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	243	61	1270	982	0.247	242	239	0.0	0.3	5.059	A
				3	2	0.51	581	460	0.004	2	2	0.0	0.0	4.967	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	2	0.54	419	332	0.007	2	2	0.0	0.0	5.738	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	394	98	1270	981	0.401	392	394	0.0	0.7	5.472	A
		2	1	1	2	0.54	-	-	-	2	2	0.0	0.0	0.157	A
				2	243	61	-	-	-	243	241	0.0	0.0	0.512	A
				3	2	0.51	-	-	-	2	2	0.0	0.0	0.342	A
				4	394	99	-	-	-	394	397	0.0	0.1	0.564	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	382	95	1642	1301	0.293	381	379	0.0	0.5	3.685	A
			2	1	218	54	1642	1301	0.167	219	212	0.0	0.2	3.883	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	217	54	-	-	-	218	213	0.0	0.0	0.184	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	382	95	-	-	-	382	381	0.0	0.0	0.139	A
3	Entry	1	1	1	5	1	1007	732	0.007	5	5	0.0	0.0	3.834	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	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	276	69	1578	1109	0.249	275	283	0.0	0.5	4.772	A
				3	52	13	1578	1107	0.047	52	53	0.0	0.1	4.470	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	5	1	-	-	-	5	5	0.0	0.0	0.386	A
				2	277	69	-	-	-	276	285	0.0	0.1	0.337	A
				3	52	13	-	-	-	52	54	0.0	0.0	0.371	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	65	16	1823	1477	0.044	65	62	0.0	0.1	2.648	A
				2	76	19	1823	1477	0.052	76	75	0.0	0.1	2.482	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	67	17	1823	1477	0.045	67	68	0.0	0.0	2.582	A
				3	169	42	1823	1481	0.114	168	160	0.0	0.2	2.855	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	65	16	-	-	-	65	62	0.0	0.0	0.000	A
				2	143	36	-	-	-	143	144	0.0	0.0	0.007	A
				3	169	42	-	-	-	169	161	0.0	0.0	0.021	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:15 - 00:30

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	282	71	1270	915	0.308	282	282	0.3	0.5	5.886	A		
				3	3	0.80	649	473	0.007	3	3	0.0	0.0	4.982	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.38	487	356	0.004	2	2	0.0	0.0	5.721	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	483	121	1270	915	0.527	481	471	0.7	1.0	6.906	A		
		2	1	1	2	0.38	-	-	-	2	2	0.0	0.0	1.387	A		
				2	284	71	-	-	-	282	282	0.0	0.3	1.677	A		
				3	3	0.80	-	-	-	3	3	0.0	0.0	1.322	A		
				4	484	121	-	-	-	483	472	0.1	0.5	1.844	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	450	112	1642	1227	0.367	450	445	0.5	0.6	4.278	A
2	1				249	62	1642	1227	0.203	250	249	0.2	0.3	4.353	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	249	62	-	-	-	249	250	0.0	0.0	0.357	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	450	112	-	-	-	450	446	0.0	0.0	0.296	A		
3	Entry			1	1	1	4	1	1024	674	0.006	4	5	0.0	0.0	4.366	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	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		348	87	1578	1025	0.340	348	349	0.5	0.5	5.895	A		
			3		66	17	1578	1031	0.064	67	66	0.1	0.1	5.495	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	4	1	-	-	-	4	5	0.0	0.0	0.989	A		
				2	348	87	-	-	-	348	349	0.1	0.0	0.745	A		
				3	66	17	-	-	-	66	66	0.0	0.0	0.735	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	73	18	1823	1408	0.052	74	75	0.1	0.0	3.201	A
						2	95	24	1823	1411	0.068	95	99	0.1	0.1	2.769	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				80	20	1823	1412	0.057	81	79	0.0	0.0	2.829	A		
	3				195	49	1823	1410	0.139	196	193	0.2	0.2	3.346	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	73	18	-	-	-	73	74	0.0	0.0	0.020	A		
				2	175	44	-	-	-	175	178	0.0	0.0	0.010	A		
				3	195	49	-	-	-	195	192	0.0	0.0	0.045	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	350	88	1270	838	0.418	353	350	0.5	0.7	7.458	A
				3	3	0.80	703	465	0.007	3	3	0.0	0.0	7.891	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	2	0.48	527	346	0.006	2	2	0.0	0.0	11.838	B
				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	617	154	1270	839	0.736	616	591	1.0	1.5	9.155	A
		2	1	1	2	0.48	-	-	-	2	2	0.0	0.0	9.668	A
				2	342	86	-	-	-	350	351	0.3	0.4	7.449	A
				3	3	0.73	-	-	-	3	3	0.0	0.0	9.060	A
				4	608	152	-	-	-	617	593	0.5	1.1	8.246	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	552	138	1642	1123	0.492	551	555	0.6	0.8	5.428	A
			2	1	307	77	1642	1121	0.274	309	309	0.3	0.3	4.888	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	307	77	-	-	-	307	309	0.0	0.1	0.937	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	553	138	-	-	-	552	556	0.0	0.1	1.008	A
3	Entry	1	1	1	6	2	1041	597	0.010	6	5	0.0	0.0	4.898	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	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	431	108	1578	884	0.488	429	422	0.5	1.1	8.054	A
				3	83	21	1578	887	0.094	85	80	0.1	0.1	7.365	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	6	2	-	-	-	6	5	0.0	0.0	1.545	A
				2	431	108	-	-	-	431	425	0.0	0.3	2.601	A
				3	83	21	-	-	-	83	80	0.0	0.0	2.541	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	98	24	1823	1317	0.074	96	92	0.0	0.2	3.207	A
				2	112	28	1823	1312	0.085	111	116	0.1	0.1	2.989	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	1823	1314	0.076	100	97	0.0	0.1	2.987	A
				3	230	58	1823	1311	0.175	232	232	0.2	0.1	3.617	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	98	24	-	-	-	98	92	0.0	0.0	0.063	A
				2	211	53	-	-	-	211	214	0.0	0.0	0.031	A
				3	230	58	-	-	-	230	232	0.0	0.0	0.073	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:45 - 01:00

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	356	89	1270	838	0.425	356	351	0.7	0.7	7.502	A	
				3	3	0.83	784	527	0.006	3	4	0.0	0.0	6.557	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	1	2	0.38	514	338	0.005	2	2	0.0	0.0	9.686	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	591	148	1270	838	0.705	589	586	1.5	1.7	9.657	A	
	2	1	1	1	0.35	-	-	-	2	2	0.0	0.0	6.594	A		
			2	358	90	-	-	-	356	351	0.4	1.2	8.723	A		
			3	4	0.93	-	-	-	3	4	0.0	0.0	8.043	A		
			4	595	149	-	-	-	591	587	1.1	2.2	9.386	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					4	549	137	1642	1137	0.483	551	559	0.8	0.8	5.416	A
2			1	1	301	75	1642	1139	0.264	301	304	0.3	0.4	5.001	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	300	75	-	-	-	301	304	0.1	0.1	0.893	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	549	137	-	-	-	549	558	0.1	0.1	0.994	A		
3		Entry	1	1	1	6	2	1108	623	0.010	6	6	0.0	0.0	4.959	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	2		1	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	436	109	1578	897	0.485	434	427	1.1	1.2	8.345	A	
				3	81	20	1578	897	0.091	80	79	0.1	0.2	7.819	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	6	2	-	-	-	6	6	0.0	0.0	2.769	A		
			2	440	110	-	-	-	436	427	0.3	0.6	2.711	A		
			3	82	20	-	-	-	81	79	0.0	0.1	2.749	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	4	Entry	1	1	1	95	24	1823	1312	0.072	95	95	0.2	0.1	3.475	A
					2	115	29	1823	1315	0.088	116	119	0.1	0.0	3.000	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	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	93	23	1823	1312	0.071	92	95	0.1	0.1	2.936	A	
				3	235	59	1823	1315	0.179	237	232	0.1	0.1	3.730	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	95	24	-	-	-	95	95	0.0	0.0	0.033	A		
			2	208	52	-	-	-	208	214	0.0	0.0	0.027	A		
			3	235	59	-	-	-	235	232	0.0	0.0	0.070	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:00 - 01:15

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	294	73	1270	927	0.317	293	296	0.7	0.5	6.595	A		
				3	3	0.67	581	421	0.006	3	2	0.0	0.0	6.090	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.41	351	252	0.007	2	1	0.0	0.0	8.859	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	479	120	1270	928	0.517	480	493	1.7	1.0	7.474	A		
		2	1	1	2	0.38	-	-	-	2	1	0.0	0.0	5.856	A		
				2	293	73	-	-	-	294	295	1.2	0.1	3.108	A		
				3	3	0.64	-	-	-	3	2	0.0	0.0	2.693	A		
				4	478	120	-	-	-	479	490	2.2	0.2	3.209	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	448	112	1642	1233	0.363	449	460	0.8	0.5	4.731	A
2	1				252	63	1642	1237	0.204	249	257	0.4	0.5	4.588	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	253	63	-	-	-	252	257	0.1	0.1	0.374	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	447	112	-	-	-	448	459	0.1	0.0	0.446	A		
3	Entry			1	1	1	5	1	974	617	0.009	5	5	0.0	0.0	5.084	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	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		330	83	1578	1023	0.323	330	343	1.2	0.7	6.340	A		
			3		62	16	1578	1017	0.061	62	67	0.2	0.2	6.069	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	5	1	-	-	-	5	5	0.0	0.0	0.501	A		
				2	331	83	-	-	-	330	340	0.6	0.2	0.958	A		
				3	63	16	-	-	-	62	66	0.1	0.0	1.142	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	77	19	1823	1417	0.054	77	74	0.1	0.1	3.179	A
						2	92	23	1823	1421	0.065	93	93	0.0	0.1	2.782	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				81	20	1823	1419	0.057	81	82	0.1	0.1	2.845	A		
	3				188	47	1823	1419	0.133	187	184	0.1	0.2	3.428	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	77	19	-	-	-	77	74	0.0	0.0	0.020	A		
				2	174	43	-	-	-	174	175	0.0	0.0	0.026	A		
				3	188	47	-	-	-	188	184	0.0	0.0	0.054	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:15 - 01:30

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	238	60	1270	973	0.245	240	240	0.5	0.3	5.458	A		
				3	2	0.51	554	424	0.005	2	2	0.0	0.0	4.788	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.57	405	309	0.007	2	2	0.0	0.0	5.512	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	410	103	1270	973	0.422	409	407	1.0	0.7	5.881	A		
		2	1	1	2	0.57	-	-	-	2	2	0.0	0.0	0.118	A		
				2	238	60	-	-	-	238	239	0.1	0.0	0.604	A		
				3	2	0.51	-	-	-	2	2	0.0	0.0	0.531	A		
				4	410	103	-	-	-	410	405	0.2	0.1	0.606	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	372	93	1642	1292	0.288	372	378	0.5	0.4	3.838	A
2	1				210	53	1642	1293	0.162	210	205	0.5	0.3	4.080	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	210	53	-	-	-	210	204	0.1	0.0	0.166	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	372	93	-	-	-	372	378	0.0	0.0	0.136	A		
3	Entry			1	1	1	5	1	923	642	0.007	5	4	0.0	0.0	4.646	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	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		291	73	1578	1109	0.262	290	296	0.7	0.5	5.179	A		
			3		55	14	1578	1107	0.049	55	57	0.2	0.0	4.798	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	5	1	-	-	-	5	4	0.0	0.0	0.406	A		
				2	291	73	-	-	-	291	295	0.2	0.1	0.548	A		
				3	54	14	-	-	-	55	56	0.0	0.0	0.501	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	66	16	1823	1469	0.045	67	66	0.1	0.0	2.802	A
						2	81	20	1823	1475	0.055	81	78	0.1	0.1	2.492	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				68	17	1823	1478	0.046	69	68	0.1	0.0	2.718	A		
	3				158	40	1823	1472	0.107	158	157	0.2	0.1	2.941	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	66	16	-	-	-	66	66	0.0	0.0	0.004	A		
				2	150	37	-	-	-	150	146	0.0	0.0	0.003	A		
				3	158	40	-	-	-	158	157	0.0	0.0	0.028	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D12 - | Base + Com Dev + CaPCAM (2550) 30/70 SPLIT | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	10.75	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.75	B

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	1916	✓	45.00
2	558	✓	110.00
3	729	✓	35.00
4	1224	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	Base + Com Dev + CaPCAM (2550) 30/70 SPLIT	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	339	100.000
2		ONE HOUR	✓	533	100.000
3		ONE HOUR	✓	761	100.000
4		ONE HOUR	✓	1316	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	11	221	2	105
	2	289	0	0	244
	3	2	747	12	0
	4	376	559	381	0

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
From	1	0	5	0	1
	2	4	0	11	2
	3	0	4	0	3
	4	1	1	1	0

Cyclist %

		To			
		1	2	3	4
From	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	17.42	2.1	5.7	C	318	478
2	3.63	0.6	2.2	A	503	755
3	9.76	2.3	8.0	A	725	1088
4	12.54	5.2	14.9	B	1216	1824

Main Results for each time segment

00:00 - 00:15

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	251	63	1319	252	258	518	0.0	0.4	6.074	A
2	408	102	395	406	408	1177	0.0	0.4	2.861	A
3	597	149	491	600	595	309	0.0	0.7	4.738	A
4	1004	251	832	1005	987	260	0.0	1.0	3.744	A

00:15 - 00:30

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	307	77	1568	308	316	617	0.4	0.7	9.240	A
2	489	122	470	491	488	1406	0.4	0.5	3.223	A
3	703	176	594	700	704	367	0.7	1.1	5.791	A
4	1213	303	971	1215	1193	323	1.0	1.8	5.182	A

00:30 - 00:45

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	385	96	1897	385	378	758	0.7	2.1	15.181	C
2	598	149	550	598	604	1732	0.5	0.6	3.579	A
3	877	219	728	876	858	420	1.1	2.3	9.436	A
4	1451	363	1217	1438	1446	387	1.8	5.0	9.649	A

00:45 - 01:00

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	386	97	1934	394	386	764	2.1	1.7	17.416	C
2	601	150	566	601	605	1763	0.6	0.6	3.628	A
3	884	221	729	894	879	438	2.3	2.0	9.760	A
4	1476	369	1231	1467	1478	392	5.0	5.2	12.544	B

01:00 - 01:15

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	305	76	1544	301	318	610	1.7	0.8	10.344	B
2	499	125	453	500	489	1393	0.6	0.5	3.227	A
3	711	178	599	712	715	354	2.0	1.6	6.488	A
4	1170	292	988	1166	1203	322	5.2	2.0	5.902	A

01:15 - 01:30

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	277	69	1286	278	277	532	0.8	0.5	7.406	A
2	426	106	386	425	424	1178	0.5	0.4	3.004	A
3	580	145	521	583	595	290	1.6	0.7	4.810	A
4	982	245	833	985	987	271	2.0	1.0	4.004	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.43	0.00	0.00	0.98	1.79
2	0.44	0.00	0.00	0.94	1.59
3	0.70	0.00	0.00	1.48	2.95
4	1.02	0.00	0.22	2.18	2.98

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.73	0.00	0.00	2.27	2.85
2	0.49	0.00	0.00	0.98	1.66
3	1.12	0.00	0.00	2.65	4.95
4	1.83	0.00	1.08	3.48	4.48

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.06	0.00	1.04	4.65	5.65
2	0.59	0.00	0.00	1.38	2.24
3	2.27	0.00	0.84	4.84	7.95
4	4.95	0.00	2.95	9.90	13.95

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.70	0.00	0.88	3.95	5.49
2	0.63	0.00	0.00	1.49	1.83
3	2.05	0.00	0.63	4.98	5.79
4	5.21	0.00	2.58	12.95	14.85

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.81	0.00	0.00	1.88	2.98
2	0.49	0.00	0.00	1.32	1.77
3	1.64	0.00	0.44	3.61	4.95
4	1.95	0.00	0.90	3.98	4.98

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.52	0.00	0.00	1.27	1.85
2	0.37	0.00	0.00	0.85	2.00
3	0.73	0.00	0.00	1.98	2.98
4	1.05	0.00	0.38	1.98	2.79

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	166	686	0.241	167	172	0.0	0.3	6.216	A
			2	1, 4	85	686	0.125	85	87	0.0	0.1	5.492	A
	Exit	1	1	(1, 2, 3, 4)	251			251	260	0.0	0.0	0.108	A
			1	1		518			518	518	0.0	0.0	0.000
2	Entry	1	1	3, 4	184	1448	0.127	183	184	0.0	0.1	2.734	A
			2	1, 2	224	1448	0.155	223	223	0.0	0.3	2.953	A
	Exit	1	1	(1, 2, 3, 4)	408			408	410	0.0	0.0	0.008	A
			1	1		1177			1177	1168	0.0	0.0	0.000
3	Entry	1	1	1, 4	1	1392	0.001	1	2	0.0	0.0	2.434	A
			2	2, 3	597	1392	0.429	599	594	0.0	0.6	4.216	A
	Exit	1	1	(1, 2, 3, 4)	597			598	598	0.0	0.1	0.525	A
			1	1		309			309	301	0.0	0.0	0.000
4	Entry	1	1	1, 2	492	1306	0.377	494	492	0.0	0.4	3.576	A
			2	2, 3, 4	512	1306	0.392	511	495	0.0	0.6	3.646	A
	Exit	1	1	(1, 2, 3, 4)	1004			1004	991	0.0	0.0	0.133	A
			1	1		260			260	262	0.0	0.0	0.000

00:15 - 00:30

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	204	597	0.342	205	211	0.3	0.5	9.340	A
			2	1, 4	103	597	0.172	103	106	0.1	0.1	6.945	A
	Exit	1	1	(1, 2, 3, 4)	307			307	318	0.0	0.0	0.718	A
2	Entry	1	1	3, 4	227	1403	0.162	228	224	0.1	0.2	3.056	A
			2	1, 2	262	1403	0.187	263	264	0.3	0.2	3.285	A
	Exit	1	1	(1, 2, 3, 4)	489			489	488	0.0	0.0	0.044	A
3	Entry	1	1	1, 4	2	1334	0.001	2	2	0.0	0.0	3.217	A
			2	2, 3	699	1334	0.524	698	702	0.6	0.9	4.904	A
	Exit	1	1	(1, 2, 3, 4)	703			701	706	0.1	0.2	0.892	A
4	Entry	1	1	1, 2	608	1228	0.495	607	600	0.4	0.9	4.447	A
			2	2, 3, 4	608	1228	0.496	608	593	0.6	0.8	4.616	A
	Exit	1	1	(1, 2, 3, 4)	1213			1216	1196	0.0	0.1	0.650	A
	Exit	1	1		323			323	320	0.0	0.0	0.000	A

00:30 - 00:45

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	255	480	0.532	255	253	0.5	1.2	13.415	B
			2	1, 4	131	480	0.272	130	125	0.1	0.4	9.556	A
	Exit	1	1	(1, 2, 3, 4)	385			386	382	0.0	0.4	3.036	A
2	Entry	1	1	3, 4	269	1355	0.199	269	273	0.2	0.2	3.340	A
			2	1, 2	329	1355	0.242	329	331	0.2	0.3	3.576	A
	Exit	1	1	(1, 2, 3, 4)	598			598	604	0.0	0.0	0.110	A
3	Entry	1	1	1, 4	2	1260	0.002	2	2	0.0	0.0	2.622	A
			2	2, 3	874	1260	0.694	874	856	0.9	1.5	6.124	A
	Exit	1	1	(1, 2, 3, 4)	877			876	860	0.2	0.8	3.310	A
4	Entry	1	1	1, 2	726	1089	0.667	724	725	0.9	1.4	5.879	A
			2	2, 3, 4	717	1089	0.659	715	721	0.8	1.4	5.938	A
	Exit	1	1	(1, 2, 3, 4)	1451			1444	1450	0.1	2.2	3.733	A
	Exit	1	1		387			387	387	0.0	0.0	0.000	A

00:45 - 01:00

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	263	467	0.563	267	261	1.2	1.0	14.748	B
			2	1, 4	127	467	0.272	128	125	0.4	0.4	10.719	B
	Exit	1	1	(1, 2, 3, 4)	386			391	385	0.4	0.3	4.014	A
2	Entry	1	1	3, 4	276	1346	0.205	275	274	0.2	0.3	3.375	A
			2	1, 2	325	1346	0.242	327	331	0.3	0.3	3.651	A
	Exit	1	1	(1, 2, 3, 4)	601			601	605	0.0	0.0	0.102	A
3	Entry	1	1	1, 4	4	1259	0.003	3	2	0.0	0.0	2.710	A
			2	2, 3	887	1259	0.705	891	877	1.5	1.4	6.245	A
	Exit	1	1	(1, 2, 3, 4)	884			891	878	0.8	0.6	3.525	A
4	Entry	1	1	1, 2	738	1080	0.683	736	736	1.4	1.5	6.329	A
			2	2, 3, 4	731	1080	0.677	731	742	1.4	1.1	6.405	A
	Exit	1	1	(1, 2, 3, 4)	1476			1469	1478	2.2	2.6	6.164	A
	Exit	1	1		392			392	388	0.0	0.0	0.000	A

01:00 - 01:15

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	204	606	0.336	203	211	1.0	0.4	10.212	B
			2	1, 4	100	606	0.165	99	107	0.4	0.3	7.985	A
	Exit	1	1	(1, 2, 3, 4)	305			303	315	0.3	0.1	0.942	A
2	Entry	1	1	3, 4	233	1414	0.165	233	222	0.3	0.2	3.009	A
			2	1, 2	266	1414	0.188	266	267	0.3	0.3	3.344	A
	Exit	1	1	(1, 2, 3, 4)	499			499	488	0.0	0.0	0.038	A
3	Entry	1	1	1, 4	3	1332	0.002	2	2	0.0	0.0	2.525	A
			2	2, 3	708	1332	0.532	709	713	1.4	1.2	5.175	A
	Exit	1	1	(1, 2, 3, 4)	711			711	714	0.6	0.4	1.330	A
4	Entry	1	1	1, 2	577	1218	0.474	577	598	1.5	0.8	4.895	A
			2	2, 3, 4	590	1218	0.485	589	605	1.1	0.9	4.714	A
	Exit	1	1	(1, 2, 3, 4)	1170			1168	1199	2.6	0.3	1.137	A
	Exit	1	1		322			322	319	0.0	0.0	0.000	A

01:15 - 01:30

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	181	698	0.259	182	183	0.4	0.3	7.551	A
			2	1, 4	96	698	0.137	96	94	0.3	0.2	6.468	A
	Exit	1	1	(1, 2, 3, 4)	277			277	276	0.1	0.0	0.245	A
2	Entry	1	1	3, 4	185	1453	0.127	184	189	0.2	0.2	2.897	A
			2	1, 2	241	1453	0.166	242	234	0.3	0.2	3.033	A
	Exit	1	1	(1, 2, 3, 4)	426			426	423	0.0	0.0	0.032	A
3	Entry	1	1	1, 4	2	1375	0.002	2	2	0.0	0.0	3.346	A
			2	2, 3	579	1375	0.421	581	593	1.2	0.7	4.357	A
	Exit	1	1	(1, 2, 3, 4)	580			581	592	0.4	0.1	0.467	A
4	Entry	1	1	1, 2	490	1306	0.375	490	489	0.8	0.6	3.791	A
			2	2, 3, 4	492	1306	0.377	495	498	0.9	0.5	3.875	A
	Exit	1	1	(1, 2, 3, 4)	982			982	984	0.3	0.0	0.170	A
	Exit	1	1		271			271	276	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.26	0.00	0.00	0.61	1.32
			2	0.15	0.00	0.00	0.13	0.71
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
2	Entry	1	1	0.15	0.00	0.00	0.11	0.62
			2	0.30	0.00	0.00	0.73	0.98
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.63	0.00	0.00	1.48	2.39
	Exit	1	1	0.07	0.00	0.00	0.00	-0.03
4	Entry	1	1	0.40	0.00	0.00	0.88	1.49
			2	0.60	0.00	0.00	1.54	1.90
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.54	0.00	0.00	1.99	2.56
			2	0.15	0.00	0.00	1.00	1.00
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.21	0.00	0.00	0.49	0.83
			2	0.23	0.00	0.00	0.59	0.98
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.89	0.00	0.00	3.00	3.00
	Exit	1	1	0.23	0.00	0.00	0.00	1.95
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.94	0.00	0.26	1.93	3.00
			2	0.75	0.00	0.06	1.63	3.00
	Exit	1	1	0.14	0.00	0.00	0.00	0.65
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.22	0.00	0.38	2.66	2.89
			2	0.41	0.00	0.00	0.90	1.39
	Exit	1	1	0.43	0.00	0.00	1.23	2.48
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.23	0.00	0.00	0.63	2.00
			2	0.35	0.00	0.00	0.83	3.00
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.51	0.00	0.84	2.75	2.89
	Exit	1	1	0.77	0.00	0.00	1.82	4.95
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.40	0.00	0.83	2.56	2.81
			2	1.37	0.00	0.87	3.00	3.00
	Exit	1	1	2.19	0.00	0.00	6.45	9.95
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.99	0.00	0.04	2.21	2.66
			2	0.38	0.00	0.00	1.18	3.00
	Exit	1	1	0.33	0.00	0.00	0.97	2.32
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.32	0.00	0.00	0.81	2.00
			2	0.27	0.00	0.00	0.84	1.49
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.02	0.00	0.00	0.00	0.00
			2	1.40	0.00	0.59	2.80	4.00
	Exit	1	1	0.63	0.00	0.00	1.45	2.74
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.46	0.00	0.77	3.00	3.00
			2	1.14	0.00	0.46	3.00	3.00
	Exit	1	1	2.62	0.00	0.00	8.90	10.90
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.44	0.00	0.00	0.98	1.79
			2	0.27	0.00	0.00	0.74	2.00
	Exit	1	1	0.10	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.21	0.00	0.00	0.56	2.00
			2	0.28	0.00	0.00	0.81	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	1.25	0.00	0.44	2.66	2.89
	Exit	1	1	0.38	0.00	0.00	0.56	1.48
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.79	0.00	0.00	1.83	3.00
			2	0.90	0.00	0.20	3.00	3.00
	Exit	1	1	0.26	0.00	0.00	-0.05	2.24
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.32	0.00	0.00	0.78	1.32
			2	0.19	0.00	0.00	0.38	2.00
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.17	0.00	0.00	0.39	0.80
			2	0.20	0.00	0.00	0.49	0.83
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.65	0.00	0.00	3.00	3.00
	Exit	1	1	0.07	0.00	0.00	0.00	-0.02
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.57	0.00	0.00	1.29	1.70
			2	0.46	0.00	0.00	0.95	2.00
	Exit	1	1	0.02	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	164	41	1157	690	0.237	165	170	0.0	0.3	6.217	A
				3	2	0.48	357	236	0.008	2	1	0.0	0.0	6.138	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	9	2	1029	621	0.014	9	9	0.0	0.0	5.156	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	77	19	1157	685	0.112	76	77	0.0	0.1	5.533	A
		2	1	1	9	2	-	-	-	9	9	0.0	0.0	0.023	A
				2	164	41	-	-	-	164	171	0.0	0.0	0.137	A
				3	2	0.48	-	-	-	2	1	0.0	0.0	0.000	A
				4	77	19	-	-	-	77	78	0.0	0.0	0.059	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	184	46	1685	1449	0.127	183	184	0.0	0.1	2.734	A
			2	1	224	56	1685	1449	0.154	223	223	0.0	0.3	2.953	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	224	56	-	-	-	224	224	0.0	0.0	0.010	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	184	46	-	-	-	184	185	0.0	0.0	0.005	A
3	Entry	1	1	1	1	0.37	514	436	0.003	1	2	0.0	0.0	2.434	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	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	587	147	1666	1392	0.422	589	584	0.0	0.6	4.220	A
				3	10	2	1543	1290	0.007	10	10	0.0	0.0	3.996	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	1	0.37	-	-	-	1	2	0.0	0.0	0.750	A
				2	586	147	-	-	-	587	586	0.0	0.1	0.529	A
				3	9	2	-	-	-	10	10	0.0	0.0	0.260	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	283	71	1777	1307	0.217	285	284	0.0	0.2	3.863	A
				2	209	52	1777	1306	0.160	209	208	0.0	0.2	3.186	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	214	54	1777	1307	0.164	214	206	0.0	0.2	3.273	A
				3	298	74	1777	1305	0.228	297	289	0.0	0.4	3.910	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	283	71	-	-	-	283	284	0.0	0.0	0.141	A
				2	423	106	-	-	-	423	416	0.0	0.0	0.110	A
				3	298	74	-	-	-	298	291	0.0	0.0	0.157	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:15 - 00:30

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	202	51	1157	601	0.337	203	209	0.3	0.5	9.346	A		
				3	2	0.44	486	261	0.007	2	2	0.0	0.0	8.678	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	9	2	1057	564	0.016	9	9	0.0	0.0	7.123	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	94	23	1157	597	0.157	95	96	0.1	0.1	6.927	A		
		2	1	1	9	2	-	-	-	9	9	0.0	0.0	0.362	A		
				2	203	51	-	-	-	202	210	0.0	0.0	0.873	A		
				3	2	0.44	-	-	-	2	2	0.0	0.0	0.512	A		
				4	94	23	-	-	-	94	96	0.0	0.0	0.431	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	227	57	1685	1403	0.162	228	224	0.1	0.2	3.056	A
2	1				262	66	1685	1401	0.187	263	264	0.3	0.2	3.285	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	262	66	-	-	-	262	264	0.0	0.0	0.047	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	227	57	-	-	-	227	224	0.0	0.0	0.040	A		
3	Entry			1	1	1	2	0.41	637	516	0.003	2	2	0.0	0.0	3.217	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	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		689	172	1666	1333	0.517	688	691	0.6	0.9	4.906	A		
			3		10	3	1625	1303	0.008	10	11	0.0	0.0	4.775	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.41	-	-	-	2	2	0.0	0.0	0.524	A		
				2	691	173	-	-	-	689	692	0.1	0.2	0.894	A		
				3	10	3	-	-	-	10	11	0.0	0.0	0.859	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	347	87	1777	1227	0.283	344	342	0.2	0.7	4.831	A
						2	261	65	1777	1224	0.213	263	258	0.2	0.2	3.934	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				253	63	1777	1228	0.206	253	249	0.2	0.2	3.979	A		
	3				355	89	1777	1227	0.290	355	344	0.4	0.5	5.080	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	345	86	-	-	-	347	344	0.0	0.0	0.675	A		
				2	513	128	-	-	-	514	507	0.0	0.0	0.611	A		
				3	355	89	-	-	-	355	344	0.0	0.1	0.682	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	253	63	1157	483	0.523	252	251	0.5	1.2	13.400	B		
				3	3	0.70	486	210	0.013	3	2	0.0	0.0	15.185	C		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	12	3	1114	478	0.025	12	12	0.0	0.0	9.265	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	119	30	1157	487	0.243	118	113	0.1	0.4	9.586	A		
		2	1	1	12	3	-	-	-	12	12	0.0	0.0	2.248	A		
				2	252	63	-	-	-	253	253	0.0	0.3	3.418	A		
				3	3	0.74	-	-	-	3	2	0.0	0.0	3.156	A		
				4	118	29	-	-	-	119	115	0.0	0.1	2.304	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	269	67	1685	1358	0.198	269	273	0.2	0.2	3.340	A
2	1				329	82	1685	1355	0.243	329	331	0.2	0.3	3.576	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	328	82	-	-	-	329	331	0.0	0.0	0.136	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	-	-	-	269	273	0.0	0.0	0.079	A		
3	Entry			1	1	1	2	0.59	638	489	0.005	2	2	0.0	0.0	2.622	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	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		862	216	1666	1260	0.684	862	844	0.9	1.5	6.131	A		
			3		12	3	1604	1215	0.010	12	12	0.0	0.0	5.621	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.59	-	-	-	2	2	0.0	0.0	2.900	A		
				2	862	215	-	-	-	862	846	0.2	0.7	3.317	A		
				3	12	3	-	-	-	12	12	0.0	0.0	2.939	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	416	104	1777	1094	0.381	415	411	0.7	0.9	6.467	A
						2	310	77	1777	1095	0.283	309	313	0.2	0.5	5.109	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				311	78	1777	1093	0.285	309	308	0.2	0.5	5.151	A		
	3				406	101	1777	1095	0.371	405	413	0.5	0.8	6.525	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	417	104	-	-	-	416	412	0.0	0.5	3.743	A		
				2	624	156	-	-	-	621	623	0.0	1.0	3.690	A		
				3	410	102	-	-	-	406	414	0.1	0.7	3.786	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:45 - 01:00

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	261	65	1157	466	0.560	265	259	1.2	1.0	14.736	B
				3	2	0.44	515	210	0.008	2	2	0.0	0.0	16.104	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	10	3	1071	424	0.024	10	11	0.0	0.0	10.052	B
				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	117	29	1157	465	0.252	117	114	0.4	0.4	10.784	B
		2	1	1	10	3	-	-	-	10	11	0.0	0.0	2.982	A
				2	258	64	-	-	-	261	258	0.3	0.2	4.299	A
				3	2	0.44	-	-	-	2	2	0.0	0.0	10.961	B
				4	116	29	-	-	-	117	114	0.1	0.1	3.356	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	276	69	1685	1348	0.204	275	274	0.2	0.3	3.375	A
			2	1	325	81	1685	1348	0.241	327	331	0.3	0.3	3.651	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	325	81	-	-	-	325	331	0.0	0.0	0.112	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	275	69	-	-	-	276	274	0.0	0.0	0.091	A
3	Entry	1	1	1	4	0.93	597	455	0.008	3	2	0.0	0.0	2.710	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	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	873	218	1666	1258	0.694	877	863	1.5	1.4	6.243	A
				3	14	4	1625	1225	0.011	14	14	0.0	0.0	6.361	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	4	0.89	-	-	-	4	2	0.0	0.0	4.183	A
				2	867	217	-	-	-	873	862	0.7	0.6	3.519	A
				3	14	3	-	-	-	14	14	0.0	0.0	3.757	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	422	106	1777	1076	0.393	423	418	0.9	0.8	6.974	A
				2	316	79	1777	1078	0.293	313	318	0.5	0.7	5.486	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	308	77	1777	1079	0.285	309	313	0.5	0.4	5.499	A
				3	424	106	1777	1077	0.393	422	429	0.8	0.7	7.064	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	425	106	-	-	-	422	418	0.5	0.9	6.213	A
				2	624	156	-	-	-	624	631	1.0	1.0	6.001	A
				3	426	107	-	-	-	424	429	0.7	0.8	6.358	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:00 - 01:15

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	202	50	1157	607	0.332	201	210	1.0	0.4	10.215	B
				3	2	0.41	300	153	0.011	2	1	0.0	0.0	9.720	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	10	2	1015	514	0.019	10	10	0.0	0.0	8.033	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	90	23	1157	611	0.148	89	97	0.4	0.3	7.980	A
		2	1	1	10	2	-	-	-	10	10	0.0	0.0	1.247	A
				2	203	51	-	-	-	202	208	0.2	0.1	1.050	A
				3	2	0.41	-	-	-	2	1	0.0	0.0	0.067	A
				4	90	23	-	-	-	90	96	0.1	0.0	0.698	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	233	58	1685	1414	0.165	233	222	0.3	0.2	3.009	A
			2	1	266	66	1685	1414	0.188	266	267	0.3	0.3	3.344	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	266	66	-	-	-	266	267	0.0	0.0	0.045	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	233	58	-	-	-	233	222	0.0	0.0	0.029	A
3	Entry	1	1	1	3	0.63	658	523	0.005	2	2	0.0	0.0	2.525	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	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	697	174	1666	1331	0.524	699	703	1.4	1.2	5.170	A
				3	11	3	1522	1212	0.009	10	10	0.0	0.0	5.528	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	3	0.63	-	-	-	3	2	0.0	0.0	1.953	A
				2	698	175	-	-	-	697	702	0.6	0.4	1.318	A
				3	11	3	-	-	-	11	10	0.0	0.0	2.018	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	333	83	1777	1221	0.273	331	345	0.8	0.6	5.388	A
				2	245	61	1777	1221	0.200	246	253	0.7	0.2	4.221	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	249	62	1777	1220	0.204	247	254	0.4	0.4	4.105	A
				3	342	85	1777	1217	0.281	342	351	0.7	0.5	5.152	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	333	83	-	-	-	333	344	0.9	0.0	1.166	A
				2	495	124	-	-	-	494	505	1.0	0.1	1.068	A
				3	342	86	-	-	-	342	350	0.8	0.1	1.208	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:15 - 01:30

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	179	45	1157	698	0.257	181	181	0.4	0.3	7.572	A		
				3	1	0.37	386	231	0.006	1	1	0.0	0.0	5.130	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	8	2	943	572	0.015	9	8	0.0	0.0	6.350	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	87	22	1157	703	0.124	87	86	0.3	0.2	6.478	A		
		2	1	1	8	2	-	-	-	8	7	0.0	0.0	0.366	A		
				2	179	45	-	-	-	179	181	0.1	0.0	0.268	A		
				3	1	0.37	-	-	-	1	1	0.0	0.0	1.388	A		
				4	87	22	-	-	-	87	86	0.0	0.0	0.168	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	185	46	1685	1453	0.127	184	189	0.2	0.2	2.897	A
2	1				241	60	1685	1454	0.166	242	234	0.3	0.2	3.033	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	241	60	-	-	-	241	234	0.0	0.0	0.042	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	184	46	-	-	-	185	189	0.0	0.0	0.020	A		
3	Entry			1	1	1	2	0.56	576	476	0.005	2	2	0.0	0.0	3.346	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	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		570	143	1666	1375	0.415	572	583	1.2	0.7	4.367	A		
			3		9	2	1501	1238	0.007	9	10	0.0	0.0	3.802	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.56	-	-	-	2	2	0.0	0.0	0.000	A		
				2	569	142	-	-	-	570	581	0.4	0.1	0.468	A		
				3	9	2	-	-	-	9	9	0.0	0.0	0.467	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	280	70	1777	1307	0.214	280	279	0.6	0.4	4.111	A
						2	210	52	1777	1305	0.161	210	210	0.2	0.2	3.365	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				213	53	1777	1305	0.163	215	212	0.4	0.2	3.278	A		
	3				279	70	1777	1309	0.213	280	285	0.5	0.3	4.318	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	280	70	-	-	-	280	278	0.0	0.0	0.206	A		
				2	423	106	-	-	-	423	421	0.1	0.0	0.124	A		
				3	279	70	-	-	-	279	284	0.1	0.0	0.204	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D13 - | Base + Com Dev + CaPCAM (5000) 30/70 SPLIT | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	17.17	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	17.17	C

Arms

Arms

[\[same as above\]](#)

Roundabout Geometry

[\[same as above\]](#)

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	1028	✓	45.00
2	946	✓	110.00
3	1664	✓	35.00
4	987	✓	110.00

Slope / Intercept / Capacity

[\[same as above\]](#)

Lane Simulation: Arm options

[\[same as above\]](#)

Lanes

[\[same as above\]](#)

Entry Lane slope and intercept

[\[same as above\]](#)

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	Base + Com Dev + CaPCAM (5000) 30/70 SPLIT	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	882	100.000
2		ONE HOUR	✓	868	100.000
3		ONE HOUR	✓	465	100.000
4		ONE HOUR	✓	491	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	2	308	3	569
	2	316	0	0	552
	3	4	389	72	0
	4	81	208	202	0

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
From	1	0	11	0	2
	2	21	0	13	2
	3	25	12	1	4
	4	4	5	4	0

Cyclist %

		To			
		1	2	3	4
From	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	33.09	10.3	29.4	D	854	1280
2	8.35	2.5	7.4	A	864	1296
3	17.78	3.6	10.8	C	473	710
4	3.87	0.9	2.8	A	470	705

Main Results for each time segment

00:00 - 00:15

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	700	175	725	700	696	354	0.0	1.4	6.611	A
2	712	178	659	713	713	767	0.0	0.8	4.270	A
3	396	99	1154	396	390	218	0.0	0.7	5.897	A
4	397	99	683	397	394	868	0.0	0.4	2.833	A

00:15 - 00:30

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	826	206	835	829	830	419	1.4	2.6	10.624	B
2	844	211	779	846	849	886	0.8	1.5	5.586	A
3	454	113	1370	455	462	255	0.7	1.1	8.495	A
4	460	115	797	458	461	1029	0.4	0.5	3.292	A

00:30 - 00:45

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	1021	255	1049	1007	992	506	2.6	8.0	22.579	C
2	1020	255	938	1025	1033	1117	1.5	2.2	8.095	A
3	580	145	1645	585	558	319	1.1	2.7	15.736	C
4	559	140	999	556	557	1231	0.5	0.9	3.710	A

00:45 - 01:00

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	1027	257	1007	1024	1013	518	8.0	10.3	33.088	D
2	1031	258	953	1036	1034	1079	2.2	2.5	8.347	A
3	560	140	1684	552	556	304	2.7	3.6	17.776	C
4	552	138	974	550	563	1262	0.9	0.7	3.873	A

01:00 - 01:15

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	838	209	848	835	861	431	10.3	3.0	14.851	B
2	871	218	778	869	862	904	2.5	1.5	5.900	A
3	465	116	1392	465	469	255	3.6	1.1	10.341	B
4	464	116	814	464	461	1044	0.7	0.4	3.377	A

01:15 - 01:30

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	709	177	708	712	706	353	3.0	1.3	8.057	A
2	706	176	661	708	708	759	1.5	0.8	4.533	A
3	385	96	1154	386	390	214	1.1	0.6	6.844	A
4	387	97	673	388	389	867	0.4	0.3	3.054	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.40	0.00	0.52	3.25	4.44
2	0.83	0.00	0.00	1.91	2.79
3	0.66	0.00	0.00	1.65	2.29
4	0.42	0.00	0.00	0.92	1.42

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.58	0.00	1.40	5.88	8.25
2	1.49	0.00	0.30	3.44	5.25
3	1.11	0.00	0.00	2.79	4.35
4	0.51	0.00	0.00	1.46	1.92

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	8.05	0.00	5.14	18.75	24.75
2	2.19	0.00	0.88	5.58	7.38
3	2.66	0.00	1.34	6.75	8.94
4	0.91	0.00	0.02	1.97	2.82

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	10.34	0.10	6.50	25.25	29.38
2	2.48	0.00	0.91	5.75	7.38
3	3.59	0.00	1.79	8.50	10.75
4	0.68	0.00	0.00	1.57	1.85

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	3.00	0.00	1.57	6.75	9.50
2	1.47	0.00	0.56	3.29	3.81
3	1.10	0.00	0.00	2.75	3.88
4	0.45	0.00	0.00	0.90	1.39

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	1.33	0.00	0.33	2.56	3.69
2	0.80	0.00	0.00	1.91	2.53
3	0.65	0.00	0.00	1.59	2.35
4	0.28	0.00	0.00	0.72	2.00

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	259	939	0.276	259	258	0.0	0.4	5.332	A
			2	1, 4	441	939	0.470	441	438	0.0	0.8	5.998	A
	Exit	1	1	(1, 2, 3, 4)	700			700	701	0.0	0.1	0.845	A
			1	1		354			354	359	0.0	0.0	0.000
2	Entry	1	1	3, 4	428	1275	0.336	429	424	0.0	0.5	3.999	A
			2	1, 2	283	1275	0.222	285	289	0.0	0.3	4.052	A
	Exit	1	1	(1, 2, 3, 4)	712			711	716	0.0	0.1	0.250	A
			1	1		767			767	757	0.0	0.0	0.000
3	Entry	1	1	1, 4	4	1037	0.004	4	4	0.0	0.0	3.689	A
			2	2, 3	393	1037	0.378	393	386	0.0	0.6	5.319	A
	Exit	1	1	(1, 2, 3, 4)	396			396	393	0.0	0.1	0.592	A
			1	1		218			218	216	0.0	0.0	0.000
4	Entry	1	1	1, 2	156	1397	0.112	156	154	0.0	0.1	2.656	A
			2	2, 3, 4	241	1397	0.172	241	240	0.0	0.3	2.937	A
	Exit	1	1	(1, 2, 3, 4)	397			397	396	0.0	0.0	0.006	A
			1	1		868			868	861	0.0	0.0	0.000

00:15 - 00:30

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	304	890	0.342	306	307	0.4	0.6	6.345	A
			2	1, 4	523	890	0.588	524	523	0.8	1.3	8.005	A
	Exit	1	1	(1, 2, 3, 4)	826			827	833	0.1	0.8	3.189	A
2	Entry	1	1	3, 4	504	1209	0.417	506	508	0.5	0.6	4.787	A
			2	1, 2	340	1209	0.282	340	342	0.3	0.6	4.809	A
	Exit	1	1	(1, 2, 3, 4)	844			844	851	0.1	0.3	0.788	A
3	Entry	1	1	1, 4	4	940	0.005	4	5	0.0	0.0	5.404	A
			2	2, 3	451	940	0.479	451	458	0.6	0.9	6.939	A
	Exit	1	1	(1, 2, 3, 4)	454			455	464	0.1	0.2	1.563	A
4	Entry	1	1	1, 2	179	1329	0.135	178	180	0.1	0.2	3.145	A
			2	2, 3, 4	281	1329	0.212	279	281	0.3	0.3	3.335	A
	Exit	1	1	(1, 2, 3, 4)	460			460	461	0.0	0.0	0.031	A
	Exit	1	1		1029			1029	1029	0.0	0.0	0.000	A

00:30 - 00:45

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	388	795	0.488	388	371	0.6	0.9	7.965	A
			2	1, 4	621	795	0.781	620	621	1.3	1.8	10.164	B
	Exit	1	1	(1, 2, 3, 4)	1021			1009	995	0.8	5.4	13.162	B
2	Entry	1	1	3, 4	610	1121	0.545	614	617	0.6	0.9	5.934	A
			2	1, 2	411	1121	0.367	411	416	0.6	0.7	5.651	A
	Exit	1	1	(1, 2, 3, 4)	1020			1021	1035	0.3	0.7	2.260	A
3	Entry	1	1	1, 4	6	817	0.007	6	5	0.0	0.0	5.948	A
			2	2, 3	579	817	0.709	580	553	0.9	1.7	9.611	A
	Exit	1	1	(1, 2, 3, 4)	580			584	561	0.2	1.0	6.129	A
4	Entry	1	1	1, 2	220	1209	0.182	219	222	0.2	0.3	3.409	A
			2	2, 3, 4	339	1209	0.280	337	335	0.3	0.6	3.800	A
	Exit	1	1	(1, 2, 3, 4)	559			559	558	0.0	0.0	0.066	A
	Exit	1	1		1231			1231	1236	0.0	0.0	0.000	A

00:45 - 01:00

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	378	814	0.465	376	378	0.9	1.0	8.412	A
			2	1, 4	650	814	0.799	648	635	1.8	2.2	11.059	B
	Exit	1	1	(1, 2, 3, 4)	1027			1028	1015	5.4	7.2	22.969	C
2	Entry	1	1	3, 4	615	1113	0.553	616	614	0.9	1.0	6.049	A
			2	1, 2	419	1113	0.377	419	420	0.7	0.8	5.589	A
	Exit	1	1	(1, 2, 3, 4)	1031			1034	1035	0.7	0.8	2.465	A
3	Entry	1	1	1, 4	6	799	0.007	5	6	0.0	0.0	6.365	A
			2	2, 3	548	799	0.685	547	550	1.7	1.8	10.224	B
	Exit	1	1	(1, 2, 3, 4)	560			553	557	1.0	1.8	7.571	A
4	Entry	1	1	1, 2	219	1224	0.179	218	225	0.3	0.3	3.643	A
			2	2, 3, 4	333	1224	0.272	332	338	0.6	0.4	3.925	A
	Exit	1	1	(1, 2, 3, 4)	552			552	562	0.0	0.0	0.061	A
	Exit	1	1		1262			1262	1246	0.0	0.0	0.000	A

01:00 - 01:15

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	314	884	0.355	313	320	1.0	0.8	6.963	A
			2	1, 4	523	884	0.591	523	542	2.2	1.2	8.675	A
	Exit	1	1	(1, 2, 3, 4)	838			837	857	7.2	1.0	6.861	A
2	Entry	1	1	3, 4	523	1209	0.432	523	513	1.0	0.7	5.023	A
			2	1, 2	348	1209	0.288	347	349	0.8	0.6	4.962	A
	Exit	1	1	(1, 2, 3, 4)	871			871	861	0.8	0.1	0.910	A
3	Entry	1	1	1, 4	5	930	0.006	6	5	0.0	0.0	4.330	A
			2	2, 3	459	930	0.493	460	463	1.8	0.9	7.874	A
	Exit	1	1	(1, 2, 3, 4)	465			464	465	1.8	0.2	2.582	A
4	Entry	1	1	1, 2	181	1319	0.137	181	179	0.3	0.2	3.153	A
			2	2, 3, 4	283	1319	0.214	283	282	0.4	0.2	3.458	A
	Exit	1	1	(1, 2, 3, 4)	464			464	460	0.0	0.0	0.038	A
	Exit	1	1		1044			1044	1053	0.0	0.0	0.000	A

01:15 - 01:30

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	266	946	0.281	266	261	0.8	0.4	5.774	A
			2	1, 4	444	946	0.469	446	445	1.2	0.6	6.792	A
	Exit	1	1	(1, 2, 3, 4)	709			711	702	1.0	0.3	1.648	A
2	Entry	1	1	3, 4	423	1274	0.332	422	424	0.7	0.5	4.130	A
			2	1, 2	282	1274	0.222	285	284	0.6	0.3	4.350	A
	Exit	1	1	(1, 2, 3, 4)	706			705	705	0.1	0.0	0.325	A
3	Entry	1	1	1, 4	4	1037	0.004	4	4	0.0	0.0	4.728	A
			2	2, 3	382	1037	0.368	382	386	0.9	0.6	6.057	A
	Exit	1	1	(1, 2, 3, 4)	385			386	389	0.2	0.0	0.810	A
4	Entry	1	1	1, 2	150	1403	0.107	150	151	0.2	0.1	2.869	A
			2	2, 3, 4	237	1403	0.169	238	238	0.2	0.2	3.144	A
	Exit	1	1	(1, 2, 3, 4)	387			387	388	0.0	0.0	0.017	A
	Exit	1	1		867			867	866	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.45	0.00	0.00	1.32	1.77
			2	0.81	0.00	0.00	1.97	3.00
	Exit	1	1	0.14	0.00	0.00	0.00	0.94
2	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.46	0.00	0.00	1.31	2.13
	Exit	1	1	0.30	0.00	0.00	0.82	1.54
3	Entry	1	1	0.07	0.00	0.00	0.00	0.00
			2	0.02	0.00	0.00	0.00	0.00
	Exit	1	1	0.58	0.00	0.00	1.54	3.00
4	Entry	1	1	0.06	0.00	0.00	0.00	0.00
			2	0.13	0.00	0.00	0.18	0.63
	Exit	1	1	0.30	0.00	0.00	0.76	2.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.57	0.00	0.00	1.58	3.00
			2	1.26	0.00	0.52	3.00	3.00
	Exit	1	1	0.75	0.00	0.00	2.75	5.25
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.57	0.00	0.00	1.70	3.00
			2	0.60	0.00	0.00	1.79	2.54
	Exit	1	1	0.32	0.00	0.00	0.10	1.88
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.92	0.00	0.00	2.48	2.79
	Exit	1	1	0.19	0.00	0.00	0.00	1.19
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.18	0.00	0.00	0.41	0.80
			2	0.34	0.00	0.00	0.87	1.54
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.86	0.00	0.00	2.28	2.67
			2	1.78	0.00	1.66	3.00	3.00
	Exit	1	1	5.41	0.00	1.64	15.50	21.58
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.86	0.00	0.00	2.39	2.72
			2	0.68	0.00	0.00	1.86	2.42
	Exit	1	1	0.66	0.00	0.00	2.38	4.44
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.02	0.00	0.00	0.00	0.00
			2	1.66	0.00	1.34	2.79	2.93
	Exit	1	1	0.98	0.00	0.00	3.50	5.94
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.34	0.00	0.00	0.86	1.63
			2	0.57	0.00	0.00	1.39	1.84
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.98	0.00	0.00	2.55	2.85
			2	2.17	0.00	2.15	2.85	2.94
	Exit	1	1	7.19	0.00	2.81	21.00	25.88
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.98	0.00	0.22	3.00	3.00
			2	0.75	0.00	0.00	3.00	3.00
	Exit	1	1	0.75	0.00	0.00	2.17	3.75
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.04	0.00	0.00	0.00	0.00
			2	1.78	0.00	1.64	2.91	4.00
	Exit	1	1	1.77	0.00	0.00	5.50	7.75
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.32	0.00	0.00	0.76	0.95
			2	0.35	0.00	0.00	0.90	2.00
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.77	0.00	0.00	1.97	2.64
			2	1.22	0.00	0.48	2.57	2.81
	Exit	1	1	1.01	0.00	0.00	2.88	5.63
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.73	0.00	0.00	3.00	3.00
			2	0.63	0.00	0.00	1.79	2.39
	Exit	1	1	0.11	0.00	0.00	0.00	0.55
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	0.92	0.00	0.00	2.32	2.77
	Exit	1	1	0.19	0.00	0.00	0.00	0.88
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.20	0.00	0.00	0.50	0.80
			2	0.25	0.00	0.00	0.58	0.83
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.43	0.00	0.00	0.91	1.63
			2	0.64	0.00	0.00	1.61	3.00
	Exit	1	1	0.26	0.00	0.00	0.00	-0.13
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.50	0.00	0.00	1.39	3.00
			2	0.26	0.00	0.00	0.81	1.53
	Exit	1	1	0.04	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.02	0.00	0.00	0.00	0.00
			2	0.58	0.00	0.00	1.55	3.00
	Exit	1	1	0.05	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.11	0.00	0.00	0.00	0.58
			2	0.17	0.00	0.00	0.35	0.83
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	257	64	1261	940	0.274	257	255	0.0	0.4	5.335	A
				3	2	0.53	535	418	0.005	2	2	0.0	0.0	5.063	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	1	0.34	393	307	0.004	1	1	0.0	0.0	4.872	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	440	110	1261	940	0.468	439	437	0.0	0.8	6.001	A
		2	1	1	1	0.34	-	-	-	1	1	0.0	0.0	0.965	A
				2	257	64	-	-	-	257	257	0.0	0.0	0.742	A
				3	2	0.53	-	-	-	2	2	0.0	0.0	0.302	A
				4	440	110	-	-	-	440	440	0.0	0.1	0.903	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	428	107	1640	1276	0.336	429	424	0.0	0.5	3.999	A
			2	1	283	71	1640	1277	0.221	285	289	0.0	0.3	4.052	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	283	71	-	-	-	283	290	0.0	0.1	0.273	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	428	107	-	-	-	428	426	0.0	0.0	0.238	A
3	Entry	1	1	1	4	0.94	772	557	0.007	4	4	0.0	0.0	3.689	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	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	340	85	1556	1037	0.328	340	334	0.0	0.5	5.346	A
				3	53	13	1556	1035	0.051	53	53	0.0	0.1	5.164	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	4	0.98	-	-	-	4	4	0.0	0.0	0.710	A
				2	340	85	-	-	-	340	336	0.0	0.0	0.572	A
				3	53	13	-	-	-	53	53	0.0	0.0	0.697	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	64	16	1803	1396	0.046	64	65	0.0	0.0	2.789	A
				2	92	23	1803	1397	0.066	92	89	0.0	0.1	2.558	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	78	20	1803	1396	0.056	78	79	0.0	0.1	2.667	A
				3	163	41	1803	1397	0.117	163	161	0.0	0.2	3.067	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	64	16	-	-	-	64	65	0.0	0.0	0.010	A
				2	170	42	-	-	-	170	169	0.0	0.0	0.001	A
				3	163	41	-	-	-	163	161	0.0	0.0	0.010	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:15 - 00:30

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	302	75	1261	888	0.340	303	305	0.4	0.6	6.349	A	
				3	2	0.55	575	407	0.005	2	3	0.0	0.0	5.883	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	2	1	2	0.43	494	347	0.005	2	2	0.0	0.0	8.213	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	521	130	1261	889	0.586	522	521	0.8	1.2	8.004	A	
	2	1	1	2	0.43	-	-	-	2	2	0.0	0.0	4.843	A		
			2	302	75	-	-	-	302	305	0.0	0.2	3.050	A		
			3	2	0.55	-	-	-	2	3	0.0	0.0	1.998	A		
			4	520	130	-	-	-	521	523	0.1	0.5	3.263	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					4	504	126	1640	1209	0.417	506	508	0.5	0.6	4.787	A
2			2	1	340	85	1640	1206	0.282	340	342	0.3	0.6	4.809	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	341	85	-	-	-	340	343	0.1	0.2	0.794	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	503	126	-	-	-	504	508	0.0	0.2	0.784	A		
3		Entry	1	1	1	4	1	859	524	0.008	4	5	0.0	0.0	5.404	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	2		2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	390	97	1556	941	0.414	389	392	0.5	0.8	6.995	A	
				3	61	15	1556	936	0.065	62	66	0.1	0.1	6.636	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	4	1	-	-	-	4	4	0.0	0.0	0.799	A		
			2	388	97	-	-	-	390	393	0.0	0.2	1.547	A		
			3	61	15	-	-	-	61	66	0.0	0.0	1.692	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	4	Entry	1	1	1	74	18	1803	1324	0.056	73	75	0.0	0.1	3.328	A
					2	105	26	1803	1322	0.080	105	104	0.1	0.1	3.011	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			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	90	22	1803	1327	0.068	89	89	0.1	0.1	2.931	A	
				3	191	48	1803	1326	0.144	191	193	0.2	0.2	3.520	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	74	18	-	-	-	74	75	0.0	0.0	0.013	A		
			2	195	49	-	-	-	195	193	0.0	0.0	0.025	A		
			3	191	48	-	-	-	191	193	0.0	0.0	0.045	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	385	96	1261	795	0.484	384	368	0.6	0.9	7.971	A		
				3	3	0.86	686	450	0.008	3	3	0.0	0.0	7.374	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.58	545	359	0.006	2	2	0.0	0.0	11.298	B		
				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	618	155	1261	795	0.778	617	619	1.2	1.8	10.160	B		
		2	1	1	2	0.58	-	-	-	2	2	0.0	0.0	14.373	B		
				2	392	98	-	-	-	385	369	0.2	2.3	13.080	B		
				3	3	0.84	-	-	-	3	3	0.0	0.0	13.379	B		
				4	623	156	-	-	-	618	621	0.5	3.0	13.203	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	610	153	1640	1120	0.545	614	617	0.6	0.9	5.934	A
2	1				411	103	1640	1120	0.367	411	416	0.6	0.7	5.651	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	412	103	-	-	-	411	416	0.2	0.3	2.348	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	609	152	-	-	-	610	618	0.2	0.3	2.211	A		
3	Entry			1	1	1	6	1	959	509	0.011	6	5	0.0	0.0	5.948	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	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		495	124	1556	817	0.606	496	473	0.8	1.4	9.727	A		
			3		83	21	1556	820	0.101	83	81	0.1	0.2	8.992	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	6	1	-	-	-	6	5	0.0	0.0	4.845	A		
				2	491	123	-	-	-	495	475	0.2	0.9	6.145	A		
				3	82	21	-	-	-	83	81	0.0	0.1	6.111	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	87	22	1803	1215	0.072	87	91	0.1	0.1	3.607	A
						2	133	33	1803	1212	0.110	132	131	0.1	0.2	3.269	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	1803	1214	0.086	105	106	0.1	0.1	3.356	A		
	3				234	58	1803	1208	0.193	232	229	0.2	0.4	4.005	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	87	22	-	-	-	87	91	0.0	0.0	0.048	A		
				2	238	60	-	-	-	238	237	0.0	0.0	0.035	A		
				3	234	58	-	-	-	234	230	0.0	0.0	0.104	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:45 - 01:00

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	375	94	1261	813	0.462	373	375	0.9	1.0	8.405	A		
				3	3	0.77	726	465	0.007	3	3	0.0	0.0	9.166	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.62	605	384	0.006	2	3	0.0	0.0	11.267	B		
				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	648	162	1261	813	0.796	646	632	1.8	2.2	11.058	B		
		2	1	1	2	0.62	-	-	-	2	3	0.0	0.0	18.880	C		
				2	373	93	-	-	-	375	376	2.3	2.5	22.441	C		
				3	3	0.79	-	-	-	3	3	0.0	0.0	20.134	C		
				4	649	162	-	-	-	648	634	3.0	4.6	23.288	C		
		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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	615	154	1640	1114	0.552	616	614	0.9	1.0	6.049	A
2	1				419	105	1640	1113	0.377	419	420	0.7	0.8	5.589	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	417	104	-	-	-	419	421	0.3	0.3	2.575	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	614	154	-	-	-	615	614	0.3	0.5	2.401	A		
3	Entry			1	1	1	6	1	1071	555	0.010	5	6	0.0	0.0	6.365	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	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		473	118	1556	797	0.593	472	472	1.4	1.5	10.276	B		
			3		75	19	1556	802	0.094	75	78	0.2	0.2	9.936	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	6	1	-	-	-	6	6	0.0	0.0	4.738	A		
				2	477	119	-	-	-	473	473	0.9	1.5	7.581	A		
				3	77	19	-	-	-	75	78	0.1	0.3	7.691	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	91	23	1803	1222	0.075	91	92	0.1	0.1	3.948	A
						2	128	32	1803	1226	0.104	127	133	0.2	0.2	3.428	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	1803	1222	0.087	106	111	0.1	0.1	3.413	A		
	3				226	57	1803	1226	0.185	226	227	0.4	0.2	4.172	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	91	23	-	-	-	91	92	0.0	0.0	0.081	A		
				2	234	59	-	-	-	234	243	0.0	0.0	0.035	A		
				3	226	57	-	-	-	226	227	0.0	0.0	0.079	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:00 - 01:15

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	311	78	1261	884	0.352	310	317	1.0	0.8	6.975	A		
				3	3	0.67	545	369	0.007	3	3	0.0	0.0	5.521	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.50	424	297	0.007	2	2	0.0	0.0	8.511	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	521	130	1261	884	0.589	521	540	2.2	1.2	8.676	A		
		2	1	1	2	0.48	-	-	-	2	2	0.0	0.0	7.070	A		
				2	313	78	-	-	-	311	316	2.5	0.5	6.480	A		
				3	3	0.65	-	-	-	3	2	0.0	0.0	7.088	A		
				4	520	130	-	-	-	521	536	4.6	0.5	7.066	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	523	131	1640	1211	0.432	523	513	1.0	0.7	5.023	A
2	1				348	87	1640	1212	0.288	347	349	0.8	0.6	4.962	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	348	87	-	-	-	348	348	0.3	0.0	0.931	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	523	131	-	-	-	523	512	0.5	0.1	0.898	A		
3	Entry			1	1	1	5	1	1046	615	0.009	6	5	0.0	0.0	4.330	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	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		393	98	1556	933	0.422	394	397	1.5	0.8	7.900	A		
			3		65	16	1556	941	0.069	65	66	0.2	0.1	7.733	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	5	1	-	-	-	5	5	0.0	0.0	1.473	A		
				2	394	98	-	-	-	393	394	1.5	0.2	2.561	A		
				3	65	16	-	-	-	65	66	0.3	0.0	2.766	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	76	19	1803	1319	0.057	77	75	0.1	0.0	3.272	A
						2	105	26	1803	1319	0.080	105	104	0.2	0.2	3.068	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				95	24	1803	1321	0.072	96	91	0.1	0.0	3.003	A		
	3				188	47	1803	1322	0.142	187	191	0.2	0.2	3.676	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	76	19	-	-	-	76	74	0.0	0.0	0.037	A		
				2	200	50	-	-	-	200	195	0.0	0.0	0.028	A		
				3	188	47	-	-	-	188	190	0.0	0.0	0.048	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

01:15 - 01:30

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	264	66	1261	947	0.279	263	259	0.8	0.4	5.772	A		
				3	2	0.60	464	343	0.007	2	2	0.0	0.0	6.054	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	2	0.48	454	336	0.006	2	2	0.0	0.0	7.879	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	442	110	1261	947	0.467	444	443	1.2	0.6	6.788	A		
		2	1	1	2	0.48	-	-	-	2	2	0.0	0.0	2.313	A		
				2	264	66	-	-	-	264	258	0.5	0.1	1.562	A		
				3	2	0.58	-	-	-	2	2	0.0	0.0	1.684	A		
				4	441	110	-	-	-	442	441	0.5	0.1	1.692	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	423	106	1640	1276	0.332	422	424	0.7	0.5	4.130	A
2	1				282	71	1640	1276	0.221	285	284	0.6	0.3	4.350	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	282	71	-	-	-	282	283	0.0	0.0	0.343	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	423	106	-	-	-	423	423	0.1	0.0	0.315	A		
3	Entry			1	1	1	4	1	797	527	0.008	4	4	0.0	0.0	4.728	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	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		328	82	1556	1039	0.315	330	330	0.8	0.5	6.095	A		
			3		53	13	1556	1035	0.051	52	56	0.1	0.1	5.859	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	4	1	-	-	-	4	4	0.0	0.0	0.922	A		
				2	328	82	-	-	-	328	329	0.2	0.0	0.762	A		
				3	53	13	-	-	-	53	56	0.0	0.0	1.057	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	62	15	1803	1400	0.044	62	63	0.0	0.0	2.981	A
						2	88	22	1803	1402	0.063	88	88	0.2	0.1	2.786	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				78	20	1803	1401	0.056	79	78	0.0	0.0	2.892	A		
	3				159	40	1803	1401	0.113	159	160	0.2	0.1	3.266	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	62	15	-	-	-	62	63	0.0	0.0	0.016	A		
				2	166	42	-	-	-	166	165	0.0	0.0	0.008	A		
				3	159	40	-	-	-	159	160	0.0	0.0	0.027	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

D14 - | Base + Com Dev + CaPCAM (5000) 30/70 SPLIT | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm 3 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Demand Sets	D5 - Base + Com Dev + CaPCAM (2550) AM	Demand Set 5: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D9 - Base + Com Dev + CaPCAM (5000) AM	Demand Set 7: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D11 - Base + Com Dev + CaPCAM (2550) 30/70 SPLIT AM	Demand Set 9: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
Warning	Demand Sets	D13 - Base + Com Dev + CaPCAM (5000) 30/70 SPLIT AM	Demand Set 11: Scenario Name includes Time Period Name ('AM'). Are you sure this is correct?
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	Estimate circulating flows	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Large Roundabout	✓		1, 2, 3, 4	37.60	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	37.60	E

Arms

Arms

[same as above]

Roundabout Geometry

[same as above]

Large Roundabout Data

Arm	Circulating flow (PCU/hr)	Has entry-to-exit separation	Entry-to-exit separation (m)
1	2234	✓	45.00
2	558	✓	110.00
3	831	✓	35.00
4	1464	✓	110.00

Slope / Intercept / Capacity

[same as above]

Lane Simulation: Arm options

[same as above]

Lanes

[same as above]

Entry Lane slope and intercept

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	Base + Com Dev + CaPCAM (5000) 30/70 SPLIT	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	425	100.000
2		ONE HOUR	✓	627	100.000
3		ONE HOUR	✓	921	100.000
4		ONE HOUR	✓	1446	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	11	307	2	105
	2	344	0	0	283
	3	2	907	12	0
	4	376	689	381	0

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
From	1	0	5	0	1
	2	4	0	11	2
	3	0	4	0	3
	4	1	1	1	0

Cyclist %

		To			
		1	2	3	4
From	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	79.91	12.5	41.1	F	404	605
2	3.89	0.8	3.0	A	591	887
3	27.86	8.6	26.1	D	880	1320
4	46.07	22.1	65.2	E	1348	2021

Main Results for each time segment

00:00 - 00:15

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	330	83	1537	331	327	562	0.0	0.8	8.052	A
2	477	119	393	477	479	1476	0.0	0.4	2.974	A
3	723	181	568	721	720	302	0.0	1.4	5.734	A
4	1105	276	992	1107	1103	298	0.0	1.4	4.332	A

00:15 - 00:30

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	399	100	1838	395	395	672	0.8	2.0	15.245	C
2	585	146	464	584	585	1769	0.4	0.7	3.402	A
3	852	213	686	858	857	362	1.4	1.9	8.821	A
4	1323	331	1189	1321	1312	355	1.4	2.8	6.906	A

00:30 - 00:45

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	475	119	2216	460	459	805	2.0	8.0	46.257	E
2	710	178	552	710	710	2123	0.7	0.8	3.765	A
3	1060	265	834	1064	1037	429	1.9	7.1	21.689	C
4	1620	405	1469	1552	1556	429	2.8	17.5	24.605	C

00:45 - 01:00

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	489	122	2252	470	470	816	8.0	12.5	79.909	F
2	702	175	564	704	712	2158	0.8	0.7	3.888	A
3	1063	266	827	1060	1047	440	7.1	8.6	27.863	D
4	1620	405	1459	1609	1590	428	17.5	22.1	46.067	E

01:00 - 01:15

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	395	99	1817	413	437	690	12.5	2.0	43.359	E
2	592	148	462	592	587	1769	0.7	0.5	3.471	A
3	861	215	700	856	884	354	8.6	2.5	11.648	B
4	1308	327	1194	1314	1389	361	22.1	2.6	17.261	C

01:15 - 01:30

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	334	83	1533	331	340	567	2.0	1.0	10.805	B
2	480	120	392	481	486	1472	0.5	0.4	3.132	A
3	720	180	567	717	724	306	2.5	1.4	6.444	A
4	1109	277	992	1108	1109	292	2.6	1.4	4.886	A

Queue Variation Results for each time segment

00:00 - 00:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.79	0.00	0.00	1.96	3.03
2	0.40	0.00	0.00	0.93	1.52
3	1.38	0.00	0.36	3.18	4.44
4	1.41	0.00	0.45	3.04	4.10

00:15 - 00:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.05	0.00	0.75	4.88	7.20
2	0.74	0.00	0.00	1.95	3.03
3	1.91	0.00	0.74	4.30	7.03
4	2.78	0.00	1.46	5.80	7.80

00:30 - 00:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	8.03	0.00	4.00	19.20	27.13
2	0.81	0.00	0.04	1.81	2.38
3	7.14	0.00	3.38	18.08	22.20
4	17.51	0.76	13.00	39.40	44.60

00:45 - 01:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	12.46	0.00	7.20	30.20	41.10
2	0.73	0.00	0.00	1.72	2.36
3	8.60	0.00	4.93	21.13	26.10
4	22.11	0.56	15.57	49.27	65.20

01:00 - 01:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	2.05	0.00	0.66	4.80	7.10
2	0.53	0.00	0.00	1.10	1.73
3	2.50	0.00	1.20	5.84	8.10
4	2.64	0.00	1.35	5.60	6.87

01:15 - 01:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	0.97	0.00	0.00	2.13	2.93
2	0.36	0.00	0.00	0.91	1.52
3	1.39	0.00	0.37	2.96	3.82
4	1.42	0.00	0.38	3.55	4.65

Lane Results

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

Lanes: Main Results for each time segment

00:00 - 00:15

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	240	619	0.388	240	238	0.0	0.6	8.119	A
			2	1, 4	90	619	0.146	91	89	0.0	0.1	6.028	A
	Exit	1	1	(1, 2, 3, 4)	330			330	330	0.0	0.1	0.510	A
			1		562			562	560	0.0	0.0	0.000	A
2	Entry	1	1	3, 4	216	1450	0.149	216	217	0.0	0.2	2.839	A
			2	1, 2	261	1450	0.180	262	263	0.0	0.2	3.038	A
	Exit	1	1	(1, 2, 3, 4)	477			477	481	0.0	0.0	0.027	A
			1		1476			1476	1470	0.0	0.0	0.000	A
3	Entry	1	1	1, 4	1	1343	0.001	1	1	0.0	0.0	3.051	A
			2	2, 3	722	1343	0.538	721	719	0.0	1.1	4.745	A
	Exit	1	1	(1, 2, 3, 4)	723			723	724	0.0	0.3	0.986	A
			1		302			302	302	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	552	1219	0.453	553	548	0.0	0.6	4.064	A
			2	2, 3, 4	553	1219	0.454	554	555	0.0	0.6	3.951	A
	Exit	1	1	(1, 2, 3, 4)	1105			1105	1108	0.0	0.2	0.324	A
			1		298			298	297	0.0	0.0	0.000	A

00:15 - 00:30

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	292	521	0.561	293	290	0.6	1.2	12.874	B
			2	1, 4	104	521	0.199	102	105	0.1	0.3	8.594	A
	Exit	1	1	(1, 2, 3, 4)	399			396	398	0.1	0.6	3.488	A
2	Entry	1	1	3, 4	265	1407	0.188	263	265	0.2	0.3	3.178	A
			2	1, 2	321	1407	0.228	321	320	0.2	0.4	3.463	A
	Exit	1	1	(1, 2, 3, 4)	585			585	586	0.0	0.0	0.068	A
3	Entry	1	1	1, 4	2	1279	0.001	2	2	0.0	0.0	1.983	A
			2	2, 3	855	1279	0.669	856	855	1.1	1.4	5.975	A
	Exit	1	1	(1, 2, 3, 4)	852			857	858	0.3	0.5	2.852	A
4	Entry	1	1	1, 2	661	1114	0.593	661	652	0.6	1.1	5.314	A
			2	2, 3, 4	662	1114	0.594	660	660	0.6	1.1	5.401	A
	Exit	1	1	(1, 2, 3, 4)	1323			1322	1316	0.2	0.6	1.548	A
	Exit	1	1		355			355	360	0.0	0.0	0.000	A

00:30 - 00:45

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	338	397	0.850	336	337	1.2	2.3	20.636	C
			2	1, 4	124	397	0.312	124	122	0.3	0.4	12.622	B
	Exit	1	1	(1, 2, 3, 4)	475			461	464	0.6	5.3	27.600	D
2	Entry	1	1	3, 4	317	1354	0.234	316	319	0.3	0.4	3.408	A
			2	1, 2	393	1354	0.290	394	391	0.4	0.4	3.775	A
	Exit	1	1	(1, 2, 3, 4)	710			710	711	0.0	0.0	0.157	A
3	Entry	1	1	1, 4	2	1198	0.002	2	2	0.0	0.0	3.155	A
			2	2, 3	1061	1198	0.886	1061	1035	1.4	2.3	7.630	A
	Exit	1	1	(1, 2, 3, 4)	1060			1063	1041	0.5	4.9	14.038	B
4	Entry	1	1	1, 2	775	964	0.804	772	775	1.1	1.8	7.401	A
			2	2, 3, 4	780	964	0.809	780	781	1.1	1.8	7.511	A
	Exit	1	1	(1, 2, 3, 4)	1620			1555	1562	0.6	13.9	17.105	C
	Exit	1	1		429			429	430	0.0	0.0	0.000	A

00:45 - 01:00

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	347	385	0.900	347	345	2.3	2.4	23.901	C
			2	1, 4	124	385	0.323	124	125	0.4	0.5	14.667	B
	Exit	1	1	(1, 2, 3, 4)	489			471	471	5.3	9.5	58.436	F
2	Entry	1	1	3, 4	315	1347	0.234	315	317	0.4	0.3	3.532	A
			2	1, 2	387	1347	0.287	388	395	0.4	0.4	3.851	A
	Exit	1	1	(1, 2, 3, 4)	702			702	712	0.0	0.0	0.180	A
3	Entry	1	1	1, 4	2	1202	0.001	2	2	0.0	0.0	2.898	A
			2	2, 3	1059	1202	0.881	1058	1045	2.3	2.5	8.123	A
	Exit	1	1	(1, 2, 3, 4)	1063			1061	1048	4.9	6.1	19.754	C
4	Entry	1	1	1, 2	796	969	0.821	798	792	1.8	1.7	8.007	A
			2	2, 3, 4	811	969	0.837	811	798	1.8	1.9	8.032	A
	Exit	1	1	(1, 2, 3, 4)	1620			1607	1590	13.9	18.5	38.071	E
	Exit	1	1		428			428	430	0.0	0.0	0.000	A

01:00 - 01:15

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	302	527	0.574	305	324	2.4	1.1	18.416	C
			2	1, 4	109	527	0.206	108	113	0.5	0.3	10.917	B
	Exit	1	1	(1, 2, 3, 4)	395			411	431	9.5	0.6	27.645	D
2	Entry	1	1	3, 4	264	1408	0.187	264	263	0.3	0.2	3.264	A
			2	1, 2	329	1408	0.234	328	324	0.4	0.3	3.489	A
	Exit	1	1	(1, 2, 3, 4)	592			593	586	0.0	0.0	0.084	A
3	Entry	1	1	1, 4	2	1271	0.002	2	2	0.0	0.0	2.886	A
			2	2, 3	857	1271	0.674	854	882	2.5	1.6	6.493	A
	Exit	1	1	(1, 2, 3, 4)	861			859	881	6.1	0.9	5.233	A
4	Entry	1	1	1, 2	665	1111	0.599	664	695	1.7	1.0	6.160	A
			2	2, 3, 4	651	1111	0.586	649	694	1.9	1.1	6.183	A
	Exit	1	1	(1, 2, 3, 4)	1308			1317	1383	18.5	0.5	11.191	B
	Exit	1	1		361			361	366	0.0	0.0	0.000	A

01:15 - 01:30

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	247	620	0.398	245	251	1.1	0.7	10.275	B
			2	1, 4	86	620	0.139	86	89	0.3	0.2	6.980	A
	Exit	1	1	(1, 2, 3, 4)	334			333	338	0.6	0.1	1.479	A
2	Entry	1	1	3, 4	214	1450	0.148	214	214	0.2	0.2	2.959	A
			2	1, 2	266	1450	0.183	267	272	0.3	0.2	3.188	A
	Exit	1	1	(1, 2, 3, 4)	480			480	485	0.0	0.0	0.047	A
3	Entry	1	1	1, 4	2	1344	0.001	2	2	0.0	0.0	2.563	A
			2	2, 3	718	1344	0.534	715	722	1.6	1.1	5.159	A
	Exit	1	1	(1, 2, 3, 4)	720			720	722	0.9	0.2	1.301	A
4	Entry	1	1	1, 2	556	1219	0.456	555	552	1.0	0.6	4.385	A
			2	2, 3, 4	552	1219	0.453	553	556	1.1	0.6	4.511	A
	Exit	1	1	(1, 2, 3, 4)	1109			1108	1105	0.5	0.2	0.445	A
	Exit	1	1		292			292	295	0.0	0.0	0.000	A

Lanes: Queue Variation Results for each time segment

00:00 - 00:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.60	0.00	0.00	1.71	2.44
			2	0.13	0.00	0.00	0.09	0.64
	Exit	1	1	0.06	0.00	0.00	0.00	0.00
2	Entry	1	1	0.16	0.00	0.00	0.34	0.80
			2	0.23	0.00	0.00	0.56	0.96
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	1.13	0.00	0.35	2.51	2.81
	Exit	1	1	0.25	0.00	0.00	0.00	1.44
4	Entry	1	1	0.63	0.00	0.00	1.50	1.91
			2	0.62	0.00	0.00	1.58	1.97
	Exit	1	1	0.16	0.00	0.00	0.00	0.20
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:15 - 00:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.18	0.00	0.37	2.56	2.79
			2	0.28	0.00	0.00	0.74	1.24
		2	1	0.59	0.00	0.00	1.80	4.17
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.32	0.00	0.00	0.84	1.65
			2	0.39	0.00	0.00	0.89	1.74
		2	1	0.03	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.40	0.00	0.74	2.67	2.85
		2	1	0.51	0.00	0.00	1.27	4.03
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.07	0.00	0.37	3.00	3.00
			2	1.07	0.00	0.39	3.00	3.00
		2	1	0.64	0.00	0.00	1.35	4.10
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:30 - 00:45

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	2.30	0.00	2.20	2.87	2.95
			2	0.42	0.00	0.00	1.12	1.85
		2	1	5.31	0.00	0.58	16.20	23.60
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.39	0.00	0.00	0.92	1.62
			2	0.41	0.00	0.00	0.91	1.47
		2	1	0.01	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	2.26	0.00	2.18	2.87	2.95
		2	1	4.88	0.00	0.33	14.88	19.20
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.79	0.00	1.39	3.00	3.00
			2	1.80	0.00	1.46	3.00	3.00
		2	1	13.93	0.00	9.60	34.93	40.20
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

00:45 - 01:00

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	2.45	0.00	2.32	2.90	2.97
			2	0.49	0.00	0.00	1.80	3.00
		2	1	9.52	0.00	3.63	26.40	37.20
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.32	0.00	0.00	0.75	0.98
			2	0.38	0.00	0.00	1.03	1.58
		2	1	0.02	0.00	0.00	0.00	0.00
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	2.46	0.00	2.32	2.88	2.95
		2	1	6.13	0.00	1.92	18.10	23.10
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.69	0.00	1.17	3.00	3.00
			2	1.91	0.00	1.66	3.00	3.00
		2	1	18.51	0.00	12.29	46.40	60.40
	Exit	1	1	0.00	0.00	0.00	0.00	0.00

01:00 - 01:15

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	1.13	0.00	0.31	2.54	2.80
			2	0.32	0.00	0.00	0.85	1.58
	Exit	1	1	0.60	0.00	0.00	1.23	3.60
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.22	0.00	0.00	0.55	0.89
			2	0.31	0.00	0.00	0.82	1.42
	Exit	1	1	0.01	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.00	0.00	0.00	0.00	0.00
			2	1.64	0.00	1.20	2.74	2.90
	Exit	1	1	0.86	0.00	0.00	2.76	4.73
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	1.03	0.00	0.37	3.00	3.00
			2	1.07	0.00	0.39	2.22	2.66
	Exit	1	1	0.53	0.00	0.00	1.47	3.20
			1	0.00	0.00	0.00	0.00	0.00

01:15 - 01:30

Arm	Side	Lane level	Lane	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)
1	Entry	1	1	0.66	0.00	0.00	1.86	3.00
			2	0.19	0.00	0.00	0.46	0.77
	Exit	1	1	0.11	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
2	Entry	1	1	0.18	0.00	0.00	0.34	0.89
			2	0.18	0.00	0.00	0.40	0.82
	Exit	1	1	0.00	0.00	0.00	0.00	0.00
			1	0.00	0.00	0.00	0.00	0.00
3	Entry	1	1	0.01	0.00	0.00	0.00	0.00
			2	1.15	0.00	0.37	2.51	2.79
	Exit	1	1	0.23	0.00	0.00	0.00	0.74
			1	0.00	0.00	0.00	0.00	0.00
4	Entry	1	1	0.64	0.00	0.00	1.63	3.00
			2	0.60	0.00	0.00	1.44	3.00
	Exit	1	1	0.19	0.00	0.00	0.00	0.89
			1	0.00	0.00	0.00	0.00	0.00

Lane movements: Main Results for each time segment

00:00 - 00:15

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	238	60	1122	620	0.384	238	237	0.0	0.6	8.121	A	
				3	2	0.48	383	227	0.008	2	2	0.0	0.0	7.847	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	2	1	9	2	1033	595	0.015	9	9	0.0	0.0	5.890	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	82	20	1122	618	0.132	82	80	0.0	0.1	6.043	A	
	2	1	1	9	2	-	-	-	9	9	0.0	0.0	0.184	A		
			2	238	59	-	-	-	238	239	0.0	0.0	0.614	A		
			3	2	0.48	-	-	-	2	2	0.0	0.0	0.153	A		
			4	82	20	-	-	-	82	81	0.0	0.0	0.255	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					4	216	54	1685	1449	0.149	216	217	0.0	0.2	2.839	A
2			2	1	261	65	1685	1450	0.180	262	263	0.0	0.2	3.038	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	261	65	-	-	-	261	264	0.0	0.0	0.029	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	216	54	-	-	-	216	217	0.0	0.0	0.025	A		
3		Entry	1	1	1	1	0.27	404	337	0.003	1	1	0.0	0.0	3.051	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	2		2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	714	178	1653	1344	0.531	712	710	0.0	1.1	4.747	A	
				3	9	2	1455	1194	0.007	8	8	0.0	0.0	4.580	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	1	1	0.27	-	-	-	1	1	0.0	0.0	1.076	A		
			2	713	178	-	-	-	714	715	0.0	0.3	0.983	A		
			3	8	2	-	-	-	9	8	0.0	0.0	1.168	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	4	Entry	1	1	1	289	72	1749	1219	0.237	290	287	0.0	0.4	4.500	A
					2	262	66	1749	1221	0.215	263	260	0.0	0.3	3.582	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			2	1	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	262	65	1749	1220	0.215	262	263	0.0	0.3	3.497	A	
				3	291	73	1749	1221	0.238	292	292	0.0	0.3	4.360	A	
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	1	289	72	-	-	-	289	289	0.0	0.0	0.355	A		
			2	524	131	-	-	-	524	525	0.0	0.1	0.285	A		
			3	291	73	-	-	-	291	293	0.0	0.1	0.363	A		
			4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:15 - 00:30

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	290	73	1122	521	0.557	291	289	0.6	1.2	12.871	B		
				3	2	0.46	402	193	0.010	2	2	0.0	0.0	13.368	B		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	10	3	1052	497	0.020	10	10	0.0	0.0	8.149	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	94	23	1122	524	0.179	92	95	0.1	0.3	8.640	A		
		2	1	1	10	2	-	-	-	10	10	0.0	0.0	2.645	A		
				2	293	73	-	-	-	290	291	0.0	0.5	3.848	A		
				3	2	0.46	-	-	-	2	2	0.0	0.0	3.310	A		
				4	94	23	-	-	-	94	96	0.0	0.1	2.527	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	265	66	1685	1407	0.188	263	265	0.2	0.3	3.178	A
2	1				321	80	1685	1406	0.228	321	320	0.2	0.4	3.463	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	321	80	-	-	-	321	321	0.0	0.0	0.076	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	-	-	-	265	265	0.0	0.0	0.058	A		
3	Entry			1	1	1	2	0.41	667	518	0.003	2	2	0.0	0.0	1.983	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	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		845	211	1653	1280	0.660	846	844	1.1	1.4	5.973	A		
			3		11	3	1587	1227	0.009	11	11	0.0	0.0	6.130	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.43	-	-	-	2	2	0.0	0.0	2.001	A		
				2	840	210	-	-	-	845	845	0.3	0.5	2.849	A		
				3	11	3	-	-	-	11	11	0.0	0.0	3.232	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	339	85	1749	1116	0.304	339	336	0.4	0.6	5.897	A
						2	322	80	1749	1117	0.288	322	316	0.3	0.4	4.694	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				311	78	1749	1116	0.279	311	311	0.3	0.4	4.668	A		
	3				351	88	1749	1115	0.314	349	349	0.3	0.7	6.054	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	338	85	-	-	-	339	337	0.0	0.1	1.636	A		
				2	633	158	-	-	-	633	629	0.1	0.3	1.445	A		
				3	351	88	-	-	-	351	350	0.1	0.2	1.647	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

00:30 - 00:45

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	336	84	1122	397	0.845	334	335	1.2	2.3	20.617	C
				3	2	0.51	453	167	0.012	2	2	0.0	0.0	23.766	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	11	3	1046	384	0.029	11	11	0.0	0.0	11.557	B
				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	113	28	1122	397	0.284	113	111	0.3	0.4	12.729	B
		2	1	1	11	3	-	-	-	11	11	0.0	0.1	25.761	D
				2	345	86	-	-	-	336	339	0.5	4.0	28.586	D
				3	2	0.55	-	-	-	2	2	0.0	0.0	21.266	C
				4	116	29	-	-	-	113	111	0.1	1.1	24.997	C
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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	317	79	1685	1355	0.234	316	319	0.3	0.4	3.408	A
			2	1	393	98	1685	1355	0.290	394	391	0.4	0.4	3.775	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	393	98	-	-	-	393	391	0.0	0.0	0.171	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	-	-	-	317	320	0.0	0.0	0.142	A
3	Entry	1	1	1	2	0.51	808	595	0.003	2	2	0.0	0.0	3.155	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	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	1049	262	1653	1198	0.875	1049	1022	1.4	2.2	7.628	A
				3	13	3	1578	1144	0.011	12	13	0.0	0.0	7.751	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.51	-	-	-	2	2	0.0	0.0	14.062	B
				2	1046	261	-	-	-	1049	1026	0.5	4.8	14.035	B
				3	13	3	-	-	-	13	13	0.0	0.1	14.284	B
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	402	100	1749	964	0.417	398	403	0.6	1.0	8.154	A
				2	373	93	1749	964	0.387	374	372	0.4	0.8	6.584	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	366	91	1749	967	0.378	366	371	0.4	0.8	6.638	A
				3	415	104	1749	964	0.430	414	410	0.7	1.0	8.299	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	420	105	-	-	-	402	405	0.1	3.8	17.395	C
				2	766	192	-	-	-	739	746	0.3	6.4	16.919	C
				3	434	108	-	-	-	415	412	0.2	3.8	17.157	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

00:45 - 01:00

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	344	86	1122	387	0.890	344	343	2.3	2.4	23.899	C
				3	2	0.56	440	160	0.014	2	2	0.0	0.0	24.134	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	11	3	1097	391	0.028	11	12	0.0	0.1	13.853	B
				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	113	28	1122	390	0.291	113	113	0.4	0.4	14.752	B
		2	1	1	11	3	-	-	-	11	12	0.1	0.2	57.011	F
				2	357	89	-	-	-	344	344	4.0	7.0	59.423	F
				3	2	0.53	-	-	-	2	2	0.0	0.0	61.451	F
				4	119	30	-	-	-	113	113	1.1	2.3	55.662	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	315	79	1685	1348	0.234	315	317	0.4	0.3	3.532	A
			2	1	387	97	1685	1348	0.287	388	395	0.4	0.4	3.851	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	387	97	-	-	-	387	395	0.0	0.0	0.186	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	315	79	-	-	-	315	317	0.0	0.0	0.173	A
3	Entry	1	1	1	2	0.39	563	410	0.004	2	2	0.0	0.0	2.898	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	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	1047	262	1653	1202	0.871	1046	1033	2.2	2.4	8.123	A
				3	12	3	1596	1156	0.010	12	13	0.0	0.0	8.159	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.39	-	-	-	2	2	0.0	0.0	15.801	C
				2	1048	262	-	-	-	1047	1034	4.8	6.0	19.741	C
				3	13	3	-	-	-	12	13	0.1	0.1	21.366	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	415	104	1749	970	0.427	415	415	1.0	0.9	8.902	A
				2	381	95	1749	970	0.393	382	377	0.8	0.7	7.024	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	385	96	1749	970	0.397	385	378	0.8	0.8	7.085	A
				3	426	106	1749	968	0.440	426	420	1.0	1.1	8.886	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	415	104	-	-	-	415	415	3.8	4.9	38.236	E
				2	773	193	-	-	-	767	755	6.4	8.7	38.013	E
				3	432	108	-	-	-	426	420	3.8	4.8	38.011	E
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:00 - 01:15

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	301	75	1122	526	0.572	304	322	2.4	1.1	18.428	C
				3	2	0.41	408	179	0.009	1	2	0.0	0.0	16.152	C
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	1	11	3	1020	455	0.023	11	11	0.1	0.0	10.719	B
				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	98	25	1122	525	0.187	98	102	0.4	0.3	10.938	B
		2	1	1	10	3	-	-	-	11	10	0.2	0.0	28.740	D
				2	289	72	-	-	-	301	317	7.0	0.5	28.109	D
				3	2	0.38	-	-	-	2	2	0.0	0.0	21.456	C
				4	94	24	-	-	-	98	102	2.3	0.1	26.244	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				4	264	66	1685	1405	0.188	264	263	0.3	0.2	3.264	A
			2	1	329	82	1685	1406	0.234	328	324	0.4	0.3	3.489	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	329	82	-	-	-	329	323	0.0	0.0	0.097	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	-	-	-	264	263	0.0	0.0	0.067	A
3	Entry	1	1	1	2	0.49	629	482	0.004	2	2	0.0	0.0	2.886	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	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	847	212	1653	1271	0.667	843	871	2.4	1.6	6.498	A
				3	10	3	1578	1211	0.009	10	11	0.0	0.0	6.120	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	2	0.49	-	-	-	2	2	0.0	0.0	3.836	A
				2	849	212	-	-	-	847	868	6.0	0.9	5.244	A
				3	10	3	-	-	-	10	11	0.1	0.0	4.641	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
4	Entry	1	1	1	352	88	1749	1109	0.317	350	363	0.9	0.7	6.837	A
				2	314	78	1749	1111	0.282	314	332	0.7	0.4	5.422	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	307	77	1749	1109	0.277	307	328	0.8	0.4	5.464	A
				3	344	86	1749	1108	0.310	342	365	1.1	0.7	6.828	A
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	1	350	87	-	-	-	352	362	4.9	0.2	10.968	B
				2	616	154	-	-	-	621	657	8.7	0.2	11.223	B
				3	342	86	-	-	-	344	364	4.8	0.2	11.355	B
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

01:15 - 01:30

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	246	61	1122	620	0.396	244	250	1.1	0.7	10.270	B		
				3	0.82	0.20	306	159	0.005	0.82	1	0.0	0.0	11.236	B		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	8	2	995	544	0.015	8	9	0.0	0.0	6.704	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	78	20	1122	618	0.126	78	80	0.3	0.2	7.009	A		
		2	1	1	8	2	-	-	-	8	9	0.0	0.0	0.714	A		
				2	246	62	-	-	-	246	248	0.5	0.1	1.612	A		
				3	0.82	0.20	-	-	-	0.82	1	0.0	0.0	1.013	A		
				4	78	20	-	-	-	78	80	0.1	0.0	1.173	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	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						4	214	54	1685	1451	0.148	214	214	0.2	0.2	2.959	A
2	1				266	66	1685	1450	0.183	267	272	0.3	0.2	3.188	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				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	266	66	-	-	-	266	271	0.0	0.0	0.047	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	214	54	-	-	-	214	214	0.0	0.0	0.047	A		
3	Entry			1	1	1	2	0.49	535	431	0.005	2	2	0.0	0.0	2.563	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	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		709	177	1653	1343	0.528	706	713	1.6	1.1	5.163	A		
			3		9	2	1531	1239	0.007	9	9	0.0	0.0	4.924	A		
			4		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	1	2	0.49	-	-	-	2	2	0.0	0.0	0.722	A		
				2	710	177	-	-	-	709	711	0.9	0.2	1.308	A		
				3	9	2	-	-	-	9	9	0.0	0.0	0.891	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		4	Entry	1	1	1	290	73	1749	1219	0.238	290	286	0.7	0.4	4.852	A
						2	266	66	1749	1220	0.218	265	267	0.4	0.3	3.887	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				257	64	1749	1220	0.211	257	263	0.4	0.3	3.938	A		
	3				295	74	1749	1219	0.242	296	294	0.7	0.3	5.025	A		
	4				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			1	291	73	-	-	-	290	284	0.2	0.1	0.480	A		
				2	523	131	-	-	-	522	528	0.2	0.1	0.392	A		
				3	295	74	-	-	-	295	293	0.2	0.1	0.508	A		
				4	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		