

Junctions 10
ARCADY 10 - Roundabout Module
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Path: J:\48559 Crawley Transport Study\Transport\Working Documents\Junction Modelling\Junction Models\JUNCTION 1

Report generation date: 26/04/2021 15:47:12

- »Base 2015, AM
- »2035 Ref, AM
- »2035 Scenario 2, AM
- »2035 Scenario 3, AM

**Summary of junction performance**

AM					
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
[Lane Simulation] - Base 2015					
Arm A	D1	4.1	13.16		B
Arm B		3.6	11.03		B
Arm C		51.4	91.09		F
Arm D		40.3	132.87		F
[Lane Simulation] - 2035 Ref					
Arm A	D3	4.6	14.89		B
Arm B		4.1	13.65		B
Arm C		139.5	230.55		F
Arm D		43.3	158.99		F
[Lane Simulation] - 2035 Scenario 2					
Arm A	D5	4.1	13.34		B
Arm B		4.9	15.34		C
Arm C		140.8	231.29		F
Arm D		95.7	385.17		F
[Lane Simulation] - 2035 Scenario 3					
Arm A	D7	4.7	14.07		B
Arm B		11.6	33.01		D
Arm C		181.2	344.32		F
Arm D		63.5	232.27		F

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.

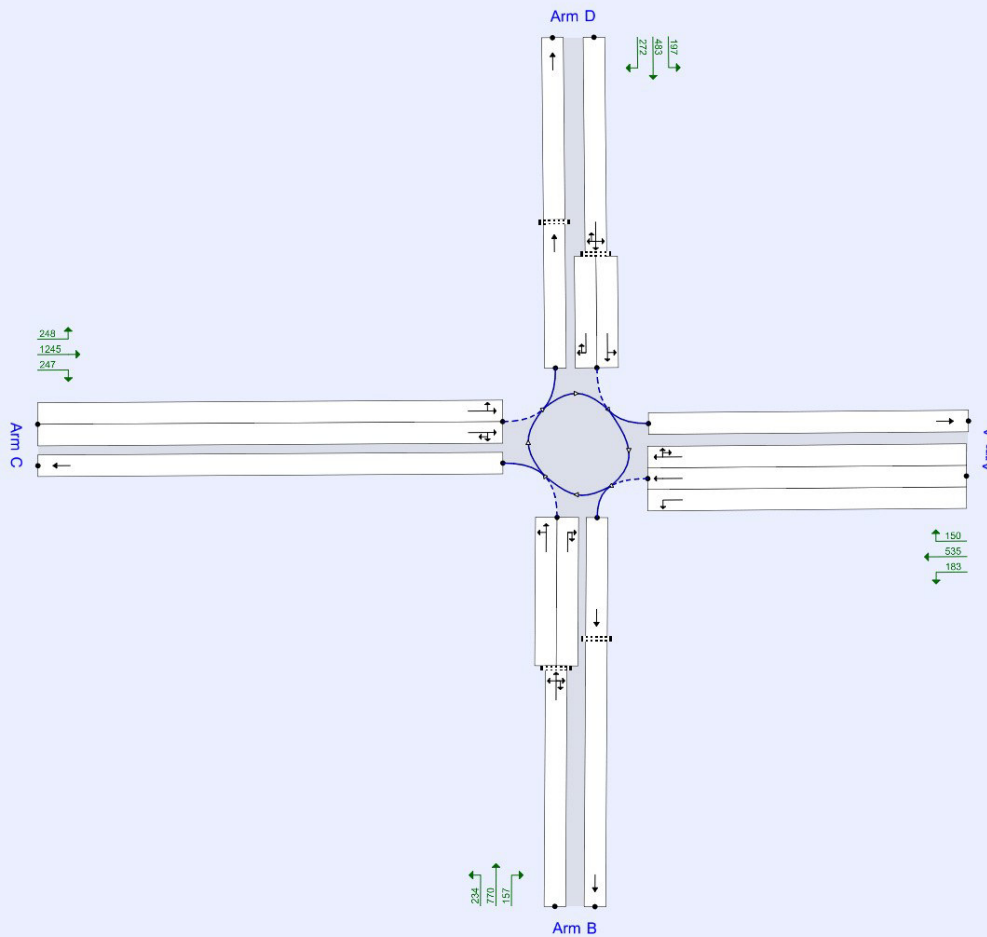
## File summary

### File Description

<b>Title</b>	Ifield Roundabout - Base
<b>Location</b>	Crewley
<b>Site number</b>	1
<b>Date</b>	31/03/2021
<b>Version</b>	V1
<b>Status</b>	(new file)
<b>Identifier</b>	001
<b>Client</b>	
<b>Jobnumber</b>	48559
<b>Enumerator</b>	CORP\rycox
<b>Description</b>	

## Units

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



Flows show original traffic demand (PCU/hr).  
Lane simulation visualisation time: 07:45:00

The junction diagram reflects the last run of Junctions.

### Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

### Lane Simulation options

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	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	-1	3	1	60	✓			2068608000	192	189.76

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:45	09:15	15	✓
D3	2035 Ref	AM	ONE HOUR	07:45	09:15	15	✓
D5	2035 Scenario 2	AM	ONE HOUR	07:45	09:15	15	✓
D7	2035 Scenario 3	AM	ONE HOUR	07:45	09:15	15	✓

### Analysis Set Details

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

# Base 2015, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	66.12	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	66.12	F

## Arms

### Arms

Arm	Name	Description	No give-way line
A	A23 Crawley Avenue East		
B	Ifield Avenue South		
C	A23 Crawley Avenue West		
D	Ifield Avenue North		

### 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
A	10.68	11.23	1.8	18.4	32.0	31.0		
B	3.50	7.96	64.0	60.0	32.0	21.0		
C	7.20	8.43	3.5	35.8	32.0	39.0		
D	3.50	8.38	19.9	999.0	32.0	10.0		

### Pelican/Puffin Crossings

Arm	Space between crossing and junc. entry (Signalised) (PCU)	Vehicles queuing on exit (Signalised) (PCU)	Amber time preceding red (s)	Amber time regarded as green (s)	Time from traffic red start to green man start (s)	Time period green man shown (s)	Clearance Period (s)	Traffic minimum green (s)
B	12.00	5.00	3.00	2.90	1.00	6.00	6.00	7.00
D	12.00	6.00	3.00	2.90	1.00	6.00	6.00	7.00

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A	0.978	3294
B	0.799	2304
C	0.782	2334
D	0.776	2111

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

### Arm Capacity Adjustments

Arm	Type	Reason	Percentage capacity adjustment (%)
A	Percentage		80.00
B	Percentage		170.00
C	Percentage		109.00
D	Percentage		153.00

### Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
A	Evenly split	10.00
B	Evenly split	10.00
C	Evenly split	10.00
D	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
A	Entry	1	1	B		Infinity			0	99999	
			2	C		Infinity		0	99999		
			3	A, C, D		Infinity		0	99999		
	Exit	1	1			Infinity					
B	Entry	1	1	C, D	✓	6.00			0	99999	
			2	A, B	✓	6.00		0	99999		
	Exit	1	1	(A, B, C, D)		Infinity					
			2	1		✓	5.00				
C	Entry	1	1	A, D		Infinity			0	99999	
			2	A, B, C		Infinity		0	99999		
	Exit	1	1			Infinity					
			2	1			Infinity				
D	Entry	1	1	A, B	✓	4.50			0	99999	
			2	C, D	✓	4.50		0	99999		
	Exit	1	1	(A, B, C, D)		Infinity					
			2	1		✓	6.00				
Exit	2	1	1			Infinity					
			2	1			Infinity				

### Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
A	Entry	1	1	0.326	1098
			2	0.326	1098
			3	0.326	1098
B	Entry	1	1	0.399	1152
			2	0.399	1152
C	Entry	1	1	0.391	1167
			2	0.391	1167
D	Entry	1	1	0.388	1055
			2	0.388	1055

### Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			A	B	C	D
A	1	1		✓		
		2			✓	
		3	✓		✓	✓
B	1	1			✓	✓
		2	✓	✓		
C	1	1	✓			✓
		2	✓	✓	✓	
D	1	1	✓	✓		
		2			✓	✓
	2	1	✓	✓	✓	✓

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	861	100.000
B		ONE HOUR	✓	964	100.000
C		ONE HOUR	✓	1602	100.000
D		ONE HOUR	✓	881	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

From	To			
	A	B	C	D
A	49	127	535	150
B	157	3	197	607
C	1107	247	0	248
D	186	421	272	2

## Vehicle Mix

### Heavy Vehicle Percentages

	To				
	A	B	C	D	
From	A	8	7	28	9
	B	4	0	4	6
	C	4	3	0	4
	D	6	0	4	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	13.16	4.1	B	784	1176
B	11.03	3.6	B	885	1328
C	91.09	51.4	F	1470	2205
D	132.87	40.3	F	802	1204

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	655	164	643		659	648	1115	0.0	1.4	8.130	A
B	715	179	738	4.52	714	722	601	0.0	1.0	4.280	A
C	1205	301	654		1204	1193	768	0.0	2.2	6.850	A
D	656	164	1154	4.52	656	654	749	0.0	1.4	7.444	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	763	191	772		763	772	1344	1.4	2.3	9.678	A
B	866	217	871	5.39	868	864	710	1.0	1.5	5.847	A
C	1426	356	791		1430	1429	900	2.2	4.7	11.228	B
D	792	198	1373	5.39	798	780	904	1.4	3.0	12.722	B

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	941	235	917		941	939	1586	2.3	3.8	13.042	B
B	1068	267	1064	6.61	1071	1058	813	1.5	3.6	10.299	B
C	1766	441	977		1690	1658	1085	4.7	31.0	43.992	E
D	961	240	1629	6.61	873	875	1090	3.0	22.7	53.169	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	935	234	943		931	941	1583	3.8	4.1	13.157	B
B	1063	266	1054	6.61	1071	1067	834	3.6	3.3	11.029	B
C	1763	441	990		1694	1685	1065	31.0	51.4	91.087	F
D	965	241	1634	6.61	893	896	1107	22.7	40.3	132.874	F

**08:45 - 09:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	767	192	858		770	772	1424	4.1	2.4	10.875	B
B	874	218	891	5.39	873	875	776	3.3	1.5	6.492	A
C	1453	363	803		1517	1620	919	51.4	8.2	48.169	E
D	777	194	1449	5.39	874	884	914	40.3	13.7	101.926	F

**09:00 - 09:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	643	161	659		643	652	1137	2.4	1.6	8.596	A
B	724	181	725	4.52	726	732	611	1.5	0.8	4.579	A
C	1208	302	665		1212	1233	753	8.2	2.1	8.059	A
D	664	166	1159	4.52	671	714	751	13.7	1.4	17.739	C

## Lane Results

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

**Lanes: Main Results for each time segment**
**07:45 - 08:00**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	100		711	0.140	101	97	0.0	0.2	6.455	A
			2	C	231		711	0.325	231	230	0.0	0.6	7.878	A
			3	A, C, D	324		711	0.457	327	320	0.0	0.7	8.862	A
	Exit	1	1		1115				1115	1116	0.0	0.0	0.000	A
B	Entry	1	1	C, D	595		1457	0.408	595	600	0.0	0.8	4.383	A
			2	A, B	119		1457	0.082	119	122	0.0	0.1	2.752	A
	Exit	1	1	(A, B, C, D)	715	4.52			715	726	0.0	0.1	0.175	A
			2	1		601	4.52			601	596	0.0	0.0	0.120
C	Entry	1	1	A, D	608		994	0.612	606	600	0.0	1.2	6.795	A
			2	A, B, C	597		994	0.601	599	593	0.0	1.0	6.907	A
	Exit	1	1		768				768	753	0.0	0.0	0.000	A
			2	1		601				601	596	0.0	0.0	0.000
D	Entry	1	1	A, B	442		930	0.475	441	449	0.0	1.0	7.385	A
			2	C, D	214		930	0.230	215	205	0.0	0.3	5.161	A
	Exit	1	1	(A, B, C, D)	656	4.52			656	659	0.0	0.1	0.739	A
			2	1		749	4.52			749	751	0.0	0.0	0.142



## 08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	109		677	0.161	109	113	0.2	0.3	7.134	A
			2	C	282		677	0.416	282	285	0.6	0.9	9.245	A
			3	A, C, D	371		677	0.548	371	374	0.7	1.2	10.825	B
	Exit	1	1		1344				1344	1343	0.0	0.0	0.000	A
B	Entry	1	1	C, D	722		1367	0.528	724	720	0.8	1.2	5.965	A
			2	A, B	144		1367	0.106	144	144	0.1	0.1	3.088	A
	Exit	1	1	(A, B, C, D)	866	5.39			866	866	0.1	0.2	0.365	A
			1		710	5.39			710	705	0.0	0.0	0.083	A
			2		710				710	705	0.0	0.0	0.000	A
C	Entry	1	1	A, D	717		935	0.767	719	716	1.2	2.3	11.210	B
			2	A, B, C	709		935	0.758	711	713	1.0	2.4	11.246	B
	Exit	1	1		900				900	898	0.0	0.0	0.000	A
D	Entry	1	1	A, B	547		800	0.683	548	537	1.0	1.7	10.662	B
			2	C, D	248		800	0.310	250	243	0.3	0.5	6.752	A
	Exit	1	1	(A, B, C, D)	792	5.39			795	784	0.1	0.8	3.230	A
			1		904	5.39			904	900	0.0	0.1	0.104	A
		2	1		904				904	900	0.0	0.0	0.000	A

## 08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	138		639	0.216	138	139	0.3	0.4	7.943	A
			2	C	360		639	0.563	362	357	0.9	1.3	12.558	B
			3	A, C, D	443		639	0.693	441	442	1.2	2.1	15.158	C
	Exit	1	1		1586				1586	1562	0.0	0.0	0.000	A
B	Entry	1	1	C, D	892		1236	0.722	891	880	1.2	2.5	9.066	A
			2	A, B	180		1236	0.146	180	178	0.1	0.2	3.567	A
	Exit	1	1	(A, B, C, D)	1068	6.61			1071	1063	0.2	0.8	2.151	A
			1		813	6.61			813	812	0.0	0.0	0.120	A
			2		813				813	812	0.0	0.0	0.000	A
C	Entry	1	1	A, D	889		856	1.039	850	829	2.3	15.6	43.932	E
			2	A, B, C	877		856	1.025	840	828	2.4	15.4	44.052	E
	Exit	1	1		1085				1085	1075	0.0	0.0	0.000	A
D	Entry	1	1	A, B	604		648	0.932	600	602	1.7	3.5	17.840	C
			2	C, D	273		648	0.421	272	273	0.5	0.8	9.974	A
	Exit	1	1	(A, B, C, D)	961	6.61			877	883	0.8	18.3	37.485	E
			1		1090	6.61			1090	1080	0.1	0.0	0.143	A
		2	1		1090				1090	1080	0.0	0.0	0.000	A

## 08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	137		632	0.216	137	140	0.4	0.3	8.065	A
			2	C	353		632	0.558	351	358	1.3	1.5	12.657	B
			3	A, C, D	445		632	0.704	443	443	2.1	2.3	15.282	C
	Exit	1	1		1583				1583	1582	0.0	0.0	0.000	A
B	Entry	1	1	C, D	884		1242	0.711	891	887	2.5	2.2	9.419	A
			2	A, B	180		1242	0.145	181	180	0.2	0.2	3.605	A
	Exit	1	1	(A, B, C, D)	1063	6.61			1064	1065	0.8	0.9	2.606	A
			1		834	6.61			834	833	0.0	0.1	0.164	A
			2		834				834	833	0.0	0.0	0.000	A
C	Entry	1	1	A, D	883		850	1.039	849	847	15.6	25.8	90.478	F
			2	A, B, C	880		850	1.035	844	837	15.4	25.7	91.701	F
	Exit	1	1		1065				1065	1076	0.0	0.0	0.000	A
D	Entry	1	1	A, B	616		645	0.955	615	616	3.5	3.6	20.602	C
			2	C, D	277		645	0.429	278	279	0.8	1.0	11.469	B
	Exit	1	1	(A, B, C, D)	965	6.61			893	897	18.3	35.7	115.083	F
			1		1107	6.61			1107	1097	0.0	0.0	0.194	A
			2		1107				1107	1097	0.0	0.0	0.000	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	116		654	0.177	116	114	0.3	0.3	7.544	A
			2	C	282		654	0.431	284	285	1.5	0.8	10.306	B
			3	A, C, D	369		654	0.563	370	373	2.3	1.3	12.417	B
	Exit	1	1		1424				1424	1489	0.0	0.0	0.000	A
B	Entry	1	1	C, D	728		1353	0.538	727	730	2.2	1.3	6.398	A
			2	A, B	146		1353	0.108	146	144	0.2	0.1	3.152	A
	Exit	1	1	(A, B, C, D)	874	5.39			874	871	0.9	0.1	0.666	A
			1		776	5.39			776	792	0.1	0.0	0.120	A
			2		776				776	792	0.0	0.0	0.000	A
C	Entry	1	1	A, D	730		930	0.785	761	811	25.8	4.1	48.173	E
			2	A, B, C	724		930	0.778	756	809	25.7	4.1	48.165	E
	Exit	1	1		919				919	929	0.0	0.0	0.000	A
D	Entry	1	1	A, B	601		755	0.796	607	610	3.6	2.3	17.947	C
			2	C, D	268		755	0.355	267	274	1.0	0.7	10.109	B
	Exit	1	1	(A, B, C, D)	777	5.39			868	878	35.7	10.7	86.864	F
			1		914	5.39			914	942	0.0	0.0	0.167	A
			2		914				914	942	0.0	0.0	0.000	A

## 09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	97		706	0.137	96	97	0.3	0.2	6.621	A
			2	C	228		706	0.322	229	233	0.8	0.6	8.342	A
			3	A, C, D	319		706	0.451	318	321	1.3	0.8	9.433	A
	Exit	1	1		1137				1137	1160	0.0	0.0	0.000	A
B	Entry	1	1	C, D	597		1466	0.407	598	610	1.3	0.8	4.700	A
			2	A, B	127		1466	0.087	128	122	0.1	0.1	2.877	A
		2	1	(A, B, C, D)	724	4.52			724	730	0.1	0.0	0.193	A
	Exit	1	1		611	4.52			611	632	0.0	0.0	0.100	A
		2	1		611				611	632	0.0	0.0	0.000	A
C	Entry	1	1	A, D	602		989	0.609	604	619	4.1	1.0	8.100	A
			2	A, B, C	606		989	0.613	608	613	4.1	1.1	8.018	A
	Exit	1	1		753				753	771	0.0	0.0	0.000	A
D	Entry	1	1	A, B	465		927	0.502	467	495	2.3	0.9	9.534	A
			2	C, D	204		927	0.220	204	219	0.7	0.3	6.077	A
		2	1	(A, B, C, D)	664	4.52			670	707	10.7	0.1	9.686	A
	Exit	1	1		751	4.52			751	768	0.0	0.0	0.099	A
		2	1		751				751	768	0.0	0.0	0.000	A

### Lane movements: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	100	25	1098	709	0.140	101	97	0.0	0.2	6.455	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	231	58	1098	710	0.325	231	230	0.0	0.6	7.878	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	34	8	1098	709	0.047	34	36	0.0	0.1	9.984	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	178	45	1098	709	0.251	180	172	0.0	0.3	7.855	A	
				D	113	28	1098	708	0.159	113	113	0.0	0.4	9.814	A	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	143	36	1152	1456	0.098	143	147	0.0	0.2	4.333	A	
				D	452	113	1152	1458	0.310	452	453	0.0	0.6	4.400	A	
			2	A	117	29	1152	1458	0.080	117	120	0.0	0.1	2.748	A	
				B	2	0.59	516	652	0.004	2	2	0.0	0.0	2.990	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	117	29	-	-	-	117	121	0.0	0.0	0.171	A
					B	2	0.59	-	-	-	2	2	0.0	0.0	0.250	A
					C	143	36	-	-	-	143	148	0.0	0.0	0.165	A
					D	452	113	-	-	-	452	456	0.0	0.0	0.178	A
C	Entry	1	1	A	425	106	1167	991	0.429	423	416	0.0	0.8	6.290	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	183	46	1167	995	0.183	183	185	0.0	0.4	7.929	A	
			2	A	407	102	1167	993	0.410	408	406	0.0	0.7	6.408	A	
				B	190	48	1167	996	0.191	191	186	0.0	0.3	7.985	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	134	34	1055	927	0.145	134	139	0.0	0.3	7.480	A	
				B	308	77	1055	928	0.332	307	311	0.0	0.7	7.345	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	212	53	1055	928	0.229	213	203	0.0	0.3	5.158	A	
				D	1	0.36	313	282	0.005	2	1	0.0	0.0	5.534	A	
			2	1	A	134	34	-	-	-	134	140	0.0	0.0	0.739	A
					B	308	77	-	-	-	308	313	0.0	0.1	0.811	A
					C	212	53	-	-	-	212	204	0.0	0.0	0.618	A
					D	1	0.36	-	-	-	1	1	0.0	0.0	1.489	A

## 08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	109	27	1098	673	0.162	109	113	0.2	0.3	7.134	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	282	71	1098	677	0.416	282	285	0.6	0.9	9.245	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	44	11	1098	677	0.065	45	44	0.1	0.1	11.709	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	194	49	1098	675	0.288	193	197	0.3	0.7	9.562	A	
				D	133	33	1098	674	0.198	133	134	0.4	0.4	12.131	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	176	44	1152	1366	0.129	177	175	0.2	0.3	5.882	A	
				D	546	136	1152	1363	0.400	548	545	0.6	0.9	5.992	A	
			2	A	141	35	1152	1360	0.104	140	141	0.1	0.1	3.100	A	
				B	3	0.86	594	702	0.005	3	3	0.0	0.0	2.554	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	141	35	-	-	-	141	141	0.0	0.0	0.320	A
					B	3	0.86	-	-	-	3	3	0.0	0.0	0.350	A
					C	176	44	-	-	-	176	175	0.0	0.0	0.396	A
					D	546	136	-	-	-	546	546	0.0	0.1	0.368	A
C	Entry	1	1	A	495	124	1167	935	0.529	497	496	0.8	1.5	10.550	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	222	56	1167	932	0.239	221	220	0.4	0.9	12.689	B	
			2	A	492	123	1167	932	0.528	494	497	0.7	1.5	10.565	B	
				B	217	54	1167	936	0.232	217	216	0.3	0.9	12.785	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	168	42	1055	796	0.211	167	164	0.3	0.6	10.619	B	
				B	378	95	1055	801	0.472	380	373	0.7	1.1	10.679	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	246	62	1055	799	0.308	248	241	0.3	0.5	6.749	A	
				D	2	0.47	401	312	0.006	2	2	0.0	0.0	7.181	A	
			2	1	A	167	42	-	-	-	168	166	0.0	0.1	3.279	A
					B	377	94	-	-	-	378	374	0.1	0.4	3.442	A
					C	246	61	-	-	-	246	242	0.0	0.2	2.864	A
					D	2	0.47	-	-	-	2	2	0.0	0.0	1.996	A

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	138	34	1098	642	0.215	138	139	0.3	0.4	7.943	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	360	90	1098	639	0.563	362	357	0.9	1.3	12.558	B
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	52	13	1098	639	0.081	51	52	0.1	0.3	17.684	C	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	230	58	1098	640	0.359	230	227	0.7	1.0	12.877	B	
			D	162	40	1098	641	0.253	160	162	0.4	0.8	17.025	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	223	56	1152	1235	0.180	222	219	0.3	0.6	8.938	A
				D	669	167	1152	1235	0.542	669	661	0.9	1.9	9.109	A
			2	A	176	44	1152	1237	0.143	176	174	0.1	0.2	3.569	A
				B	4	0.89	708	775	0.005	4	4	0.0	0.0	3.496	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	176	44	-	-	-	176	175	0.0	0.1	1.941	A
				B	4	0.89	-	-	-	4	4	0.0	0.0	2.359	A
				C	222	55	-	-	-	223	220	0.0	0.2	2.169	A
				D	667	167	-	-	-	669	665	0.1	0.5	2.200	A
C	Entry	1	1	A	617	154	1167	856	0.721	590	575	1.5	10.8	43.205	E
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	272	68	1167	851	0.319	259	255	0.9	4.8	45.576	E
			2	A	602	151	1167	853	0.706	581	573	1.5	10.2	43.125	E
				B	274	69	1167	858	0.320	259	255	0.9	5.2	46.100	E
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D	Entry	1	1	A	188	47	1055	646	0.291	188	187	0.6	1.1	18.075	C
				B	416	104	1055	646	0.643	412	414	1.1	2.5	17.740	C
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	271	68	1055	646	0.419	270	272	0.5	0.8	9.972	A
				D	2	0.55	368	239	0.009	2	2	0.0	0.0	10.274	B
		2	1	A	206	51	-	-	-	188	189	0.1	3.9	36.889	E
				B	457	114	-	-	-	416	420	0.4	9.0	38.520	E
				C	296	74	-	-	-	271	273	0.2	5.4	36.223	E
				D	2	0.61	-	-	-	2	2	0.0	0.0	38.084	E

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	137	34	1098	631	0.217	137	140	0.4	0.3	8.065	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	353	88	1098	630	0.560	351	358	1.3	1.5	12.657	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	51	13	1098	633	0.081	51	54	0.3	0.3	17.587	C		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	222	56	1098	635	0.350	219	222	1.0	1.1	12.987	B		
				D	172	43	1098	631	0.273	172	167	0.8	0.9	17.141	C		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	215	54	1152	1245	0.173	219	219	0.6	0.4	9.467	A		
				D	669	167	1152	1239	0.540	672	668	1.9	1.8	9.403	A		
			2	A	178	44	1152	1242	0.143	178	177	0.2	0.2	3.617	A		
				B	3	0.66	642	683	0.004	3	3	0.0	0.0	2.953	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	178	44	-	-	-	178	176	0.1	0.2	2.391	A	
					B	3	0.66	-	-	-	3	3	0.0	0.0	1.029	A	
					C	215	54	-	-	-	215	218	0.2	0.2	2.741	A	
					D	668	167	-	-	-	669	668	0.5	0.6	2.627	A	
C	Entry	1	1	A	614	154	1167	856	0.717	588	588	10.8	17.8	89.080	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	269	67	1167	848	0.317	261	259	4.8	7.9	93.635	F		
			2	A	602	151	1167	855	0.704	580	576	10.2	17.4	90.645	F		
				B	278	69	1167	855	0.325	264	261	5.2	8.3	94.021	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	184	46	1055	640	0.287	185	188	1.1	1.1	20.706	C		
				B	432	108	1055	644	0.670	430	429	2.5	2.5	20.560	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	275	69	1055	646	0.426	276	277	0.8	1.0	11.466	B		
				D	2	0.48	401	251	0.008	2	2	0.0	0.0	11.939	B		
			2	1	A	196	49	-	-	-	184	188	3.9	7.2	114.442	F	
					B	464	116	-	-	-	432	429	9.0	17.2	116.939	F	
					C	303	76	-	-	-	275	278	5.4	11.3	112.492	F	
					D	2	0.47	-	-	-	2	2	0.0	0.1	122.746	F	

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	116	29	1098	654	0.177	116	114	0.3	0.3	7.544	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	282	71	1098	654	0.432	284	285	1.5	0.8	10.306	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	45	11	1098	655	0.069	46	43	0.3	0.2	14.239	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	194	49	1098	653	0.298	195	194	1.1	0.6	10.820	B	
				D	129	32	1098	655	0.197	129	137	0.9	0.6	13.775	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	177	44	1152	1351	0.131	176	178	0.4	0.3	6.441	A	
				D	552	138	1152	1353	0.408	551	552	1.8	1.0	6.383	A	
			2	A	143	36	1152	1353	0.105	143	141	0.2	0.1	3.147	A	
				B	3	0.77	600	694	0.004	3	3	0.0	0.0	3.358	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	143	36	-	-	-	143	141	0.2	0.0	0.541	A
					B	3	0.77	-	-	-	3	3	0.0	0.0	0.775	A
					C	177	44	-	-	-	177	178	0.2	0.0	0.672	A
					D	551	138	-	-	-	552	549	0.6	0.1	0.696	A
C	Entry	1	1	A	508	127	1167	930	0.546	530	560	17.8	2.6	47.252	E	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	222	56	1167	933	0.238	231	251	7.9	1.5	50.215	F	
			2	A	498	125	1167	930	0.536	520	559	17.4	2.8	47.308	E	
				B	225	56	1167	930	0.242	237	250	8.3	1.4	50.079	F	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	183	46	1055	754	0.242	186	186	1.1	0.7	17.910	C	
				B	418	105	1055	755	0.553	421	424	2.5	1.7	17.962	C	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	265	66	1055	754	0.351	264	272	1.0	0.7	10.111	B	
				D	3	0.64	440	301	0.009	3	2	0.0	0.0	9.776	A	
			2	1	A	164	41	-	-	-	183	184	7.2	2.4	89.124	F
					B	372	93	-	-	-	418	421	17.2	5.0	86.016	F
					C	238	60	-	-	-	265	271	11.3	3.2	86.761	F
					D	2	0.56	-	-	-	3	2	0.1	0.0	80.417	F



09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	97	24	1098	707	0.137	96	97	0.3	0.2	6.621	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	228	57	1098	706	0.323	229	233	0.8	0.6	8.342	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	35	9	1098	705	0.050	36	38	0.2	0.1	10.632	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	174	43	1098	708	0.246	173	171	0.6	0.4	8.374	A	
				D	110	27	1098	708	0.155	109	112	0.6	0.3	10.412	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	148	37	1152	1469	0.101	149	149	0.3	0.2	4.579	A	
				D	448	112	1152	1466	0.306	450	461	1.0	0.6	4.740	A	
			2	A	125	31	1152	1467	0.085	125	120	0.1	0.1	2.886	A	
				B	2	0.61	558	696	0.004	2	2	0.0	0.0	2.453	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	125	31	-	-	-	125	120	0.0	0.0	0.163	A
					B	2	0.61	-	-	-	2	2	0.0	0.0	0.036	A
					C	148	37	-	-	-	148	149	0.0	0.0	0.190	A
					D	448	112	-	-	-	448	459	0.1	0.0	0.203	A
C	Entry	1	1	A	413	103	1167	991	0.417	413	426	2.6	0.7	7.565	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	189	47	1167	987	0.192	191	193	1.5	0.3	9.287	A	
			2	A	420	105	1167	988	0.425	421	425	2.8	0.8	7.577	A	
				B	186	47	1167	988	0.188	187	189	1.4	0.3	9.006	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	141	35	1055	927	0.152	142	152	0.7	0.3	9.908	A	
				B	325	81	1055	929	0.349	326	344	1.7	0.6	9.378	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	203	51	1055	926	0.219	202	217	0.7	0.3	6.079	A	
				D	1	0.36	396	334	0.004	2	2	0.0	0.0	5.830	A	
			2	1	A	139	35	-	-	-	141	150	2.4	0.0	9.013	A
					B	321	80	-	-	-	325	340	5.0	0.0	9.816	A
					C	202	50	-	-	-	203	216	3.2	0.1	9.911	A
					D	1	0.36	-	-	-	1	2	0.0	0.0	11.420	B

# 2035 Ref, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	126.13	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	126.13	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2035 Ref	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	906	100.000
B		ONE HOUR	✓	979	100.000
C		ONE HOUR	✓	1744	100.000
D		ONE HOUR	✓	881	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	49	138	535	184
	B	157	3	212	607
	C	1249	247	0	248
	D	186	421	272	2

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	8	7	28	9
	B	4	0	4	6
	C	4	3	0	4
	D	6	0	4	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	14.89	4.6	B	836	1253
B	13.65	4.1	B	894	1340
C	230.55	139.5	F	1599	2399
D	158.99	43.3	F	806	1209

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	696	174	648		691	677	1222	0.0	2.1	8.348	A
B	728	182	767	4.52	727	731	602	0.0	1.0	4.456	A
C	1296	324	687		1295	1303	769	0.0	2.7	7.778	A
D	659	165	1250	4.52	658	657	778	0.0	1.5	8.245	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	820	205	797		812	811	1480	2.1	2.6	10.031	B
B	873	218	914	5.39	876	874	717	1.0	1.2	5.996	A
C	1564	391	827		1567	1545	925	2.7	6.9	14.612	B
D	793	198	1520	5.39	784	771	916	1.5	5.4	18.606	C

**08:15 - 08:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	988	247	898		994	989	1606	2.6	4.2	13.959	B
B	1084	271	1103	6.61	1090	1074	804	1.2	4.1	11.863	B
C	1926	481	1045		1651	1657	1093	6.9	72.0	86.470	F
D	969	242	1623	6.61	885	884	1115	5.4	26.4	68.631	F

**08:30 - 08:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	998	249	916		999	1006	1605	4.2	4.6	14.885	B
B	1068	267	1098	6.61	1077	1079	826	4.1	3.4	13.646	B
C	1922	481	1049		1665	1662	1082	72.0	139.5	230.550	F
D	963	241	1632	6.61	899	901	1127	26.4	43.3	145.068	F

**08:45 - 09:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	818	205	862		816	822	1648	4.6	2.8	11.461	B
B	867	217	926	5.39	871	884	767	3.4	1.5	6.882	A
C	1574	393	784		1825	1803	923	139.5	79.1	219.373	F
D	789	197	1718	5.39	792	830	967	43.3	34.2	158.988	F

**09:00 - 09:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	694	173	712		695	692	1327	2.8	1.8	9.345	A
B	742	186	782	4.52	745	739	678	1.5	0.9	4.713	A
C	1312	328	695		1410	1612	810	79.1	5.4	58.575	F
D	663	166	1351	4.52	759	778	794	34.2	7.2	87.162	F

## Lane Results

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

### Lanes: Main Results for each time segment

#### 07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	102		709	0.143	102	101	0.0	0.2	6.244	A
			2	C	237		709	0.334	235	232	0.0	0.8	7.958	A
			3	A, C, D	358		709	0.504	354	343	0.0	1.2	9.269	A
	Exit	1	1		1222				1222	1229	0.0	0.0	0.000	A
B	Entry	1	1	C, D	610		1437	0.425	610	612	0.0	0.8	4.520	A
			2	A, B	117		1437	0.082	117	120	0.0	0.2	2.849	A
	Exit	1	1	(A, B, C, D)	728	4.52			727	735	0.0	0.0	0.213	A
			2	1		603	4.52			602	602	0.0	0.0	0.124
C	Entry	1	1	A, D	654		979	0.668	653	655	0.0	1.4	7.673	A
			2	A, B, C	642		979	0.656	642	648	0.0	1.4	7.883	A
	Exit	1	1		769				769	762	0.0	0.0	0.000	A
D	Entry	1	1	A, B	451		873	0.517	450	452	0.0	1.0	8.097	A
			2	C, D	207		873	0.237	208	205	0.0	0.3	5.628	A
	Exit	1	1	(A, B, C, D)	659	4.52			658	662	0.0	0.2	0.901	A
			2	1		778	4.52			778	775	0.0	0.0	0.175

#### 08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	123		670	0.184	123	123	0.2	0.2	6.909	A
			2	C	302		670	0.450	300	293	0.8	0.9	9.554	A
			3	A, C, D	395		670	0.588	390	394	1.2	1.5	11.420	B
	Exit	1	1		1480				1480	1458	0.0	0.0	0.000	A
B	Entry	1	1	C, D	732		1338	0.547	734	731	0.8	1.1	6.078	A
			2	A, B	141		1338	0.106	142	144	0.2	0.1	3.065	A
	Exit	1	1	(A, B, C, D)	873	5.39			874	875	0.0	0.1	0.420	A
			2	1		717	5.39			717	714	0.0	0.0	0.113
C	Entry	1	1	A, D	779		920	0.847	781	771	1.4	3.3	14.542	B
			2	A, B, C	785		920	0.853	785	775	1.4	3.6	14.681	B
	Exit	1	1		925				925	909	0.0	0.0	0.000	A
D	Entry	1	1	A, B	540		713	0.758	538	531	1.0	2.3	12.773	B
			2	C, D	246		713	0.345	246	240	0.3	0.5	7.568	A
	Exit	1	1	(A, B, C, D)	793	5.39			787	776	0.2	2.6	7.349	A
			2	1		916	5.39			916	921	0.0	0.1	0.122

## 08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	151		644	0.234	151	150	0.2	0.4	7.939	A
			2	C	366		644	0.569	370	368	0.9	1.5	13.469	B
			3	A, C, D	471		644	0.731	473	471	1.5	2.3	16.414	C
	Exit	1	1		1606				1606	1602	0.0	0.0	0.000	A
B	Entry	1	1	C, D	902		1209	0.746	907	896	1.1	2.7	9.834	A
			2	A, B	182		1209	0.151	183	178	0.1	0.2	3.740	A
	Exit	1	1	(A, B, C, D)	1084	6.61			1084	1081	0.1	1.3	3.012	A
			1		805	6.61			804	809	0.0	0.1	0.124	A
			2		804				804	809	0.0	0.0	0.000	A
C	Entry	1	1	A, D	971		827	1.174	834	829	3.3	36.0	86.286	F
			2	A, B, C	955		827	1.155	817	828	3.6	36.1	86.655	F
	Exit	1	1		1093				1093	1092	0.0	0.0	0.000	A
D	Entry	1	1	A, B	606		652	0.930	606	607	2.3	3.4	19.160	C
			2	C, D	280		652	0.429	279	277	0.5	1.0	10.924	B
	Exit	1	1	(A, B, C, D)	969	6.61			886	891	2.6	22.1	51.830	F
			1		1115	6.61			1115	1101	0.1	0.1	0.192	A
		2	1		1115				1115	1101	0.0	0.0	0.000	A

## 08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	157		640	0.245	157	155	0.4	0.3	8.189	A
			2	C	367		640	0.574	367	376	1.5	1.7	14.300	B
			3	A, C, D	474		640	0.741	475	475	2.3	2.5	17.693	C
	Exit	1	1		1605				1605	1603	0.0	0.0	0.000	A
B	Entry	1	1	C, D	893		1213	0.736	899	904	2.7	2.3	10.686	B
			2	A, B	178		1213	0.147	178	175	0.2	0.2	3.788	A
	Exit	1	1	(A, B, C, D)	1068	6.61			1071	1078	1.3	0.9	4.107	A
			1		826	6.61			826	823	0.1	0.0	0.144	A
			2		826				826	823	0.0	0.0	0.000	A
C	Entry	1	1	A, D	966		825	1.171	836	835	36.0	69.9	230.316	F
			2	A, B, C	956		825	1.159	829	827	36.1	69.6	230.785	F
	Exit	1	1		1082				1082	1104	0.0	0.0	0.000	A
D	Entry	1	1	A, B	622		646	0.962	621	617	3.4	3.6	20.613	C
			2	C, D	277		646	0.429	278	284	1.0	0.8	11.354	B
	Exit	1	1	(A, B, C, D)	963	6.61			899	901	22.1	38.9	127.244	F
			1		1127	6.61			1127	1119	0.1	0.0	0.213	A
		2	1		1127				1127	1119	0.0	0.0	0.000	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	125		653	0.191	124	123	0.3	0.3	7.713	A
			2	C	298		653	0.455	297	298	1.7	1.0	10.806	B
			3	A, C, D	396		653	0.606	396	401	2.5	1.5	13.189	B
	Exit	1	1		1648				1648	1646	0.0	0.0	0.000	A
B	Entry	1	1	C, D	729		1330	0.548	733	741	2.3	1.3	6.759	A
			2	A, B	138		1330	0.104	138	144	0.2	0.1	3.248	A
	Exit	1	1	(A, B, C, D)	867	5.39			867	880	0.9	0.1	0.744	A
			1		768	5.39			767	784	0.0	0.1	0.126	A
			2		767				767	784	0.0	0.0	0.000	A
C	Entry	1	1	A, D	782		938	0.834	909	894	69.9	39.5	220.714	F
			2	A, B, C	791		938	0.844	916	909	69.6	39.6	218.065	F
	Exit	1	1		923				923	936	0.0	0.0	0.000	A
D	Entry	1	1	A, B	543		595	0.913	543	570	3.6	3.4	21.237	C
			2	C, D	248		595	0.417	249	260	0.8	0.9	11.763	B
	Exit	1	1	(A, B, C, D)	789	5.39			792	829	38.9	29.9	140.415	F
			1		965	5.39			967	974	0.0	0.0	0.180	A
			2		967				967	974	0.0	0.0	0.000	A

## 09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	106		693	0.153	105	105	0.3	0.2	6.983	A
			2	C	243		693	0.350	244	242	1.0	0.6	8.807	A
			3	A, C, D	346		693	0.499	346	345	1.5	1.0	10.475	B
	Exit	1	1		1327				1327	1478	0.0	0.0	0.000	A
B	Entry	1	1	C, D	620		1428	0.434	622	616	1.3	0.8	4.913	A
			2	A, B	123		1428	0.086	123	123	0.1	0.1	2.858	A
	Exit	1	1	(A, B, C, D)	742	4.52			743	736	0.1	0.0	0.150	A
			1		677	4.52			678	708	0.1	0.0	0.102	A
			2		678				678	708	0.0	0.0	0.000	A
C	Entry	1	1	A, D	650		976	0.666	699	805	39.5	2.7	58.728	F
			2	A, B, C	662		976	0.678	711	807	39.6	2.7	58.425	F
	Exit	1	1		810				810	804	0.0	0.0	0.000	A
D	Entry	1	1	A, B	520		813	0.640	529	538	3.4	1.7	18.126	C
			2	C, D	227		813	0.280	230	240	0.9	0.4	10.454	B
	Exit	1	1	(A, B, C, D)	663	4.52			747	770	29.9	5.0	71.972	F
			1		794	4.52			794	830	0.0	0.0	0.099	A
			2		794				794	830	0.0	0.0	0.000	A

### Lane movements: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	102	25	1098	711	0.143	102	101	0.0	0.2	6.244	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	237	59	1098	712	0.333	235	232	0.0	0.8	7.958	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	42	10	1098	711	0.059	41	40	0.0	0.2	9.950	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	170	43	1098	710	0.240	168	166	0.0	0.5	8.132	A	
				D	146	36	1098	712	0.204	144	137	0.0	0.4	10.234	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	159	40	1152	1439	0.110	159	160	0.0	0.2	4.504	A	
				D	451	113	1152	1442	0.313	452	452	0.0	0.6	4.525	A	
			2	A	116	29	1152	1441	0.080	115	118	0.0	0.2	2.848	A	
				B	2	0.42	512	644	0.003	2	2	0.0	0.0	2.890	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	116	29	-	-	-	116	118	0.0	0.0	0.211	A
					B	2	0.42	-	-	-	2	2	0.0	0.0	0.116	A
					C	159	40	-	-	-	159	160	0.0	0.0	0.232	A
					D	451	113	-	-	-	451	454	0.0	0.0	0.207	A
C	Entry	1	1	A	473	118	1167	981	0.482	473	470	0.0	0.8	7.208	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	181	45	1167	981	0.185	181	184	0.0	0.5	8.852	A	
			2	A	459	115	1167	978	0.469	460	464	0.0	1.0	7.421	A	
				B	183	46	1167	982	0.186	182	185	0.0	0.4	9.028	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	134	33	1055	874	0.153	133	138	0.0	0.3	8.288	A	
				B	318	79	1055	875	0.363	317	314	0.0	0.7	8.018	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	206	51	1055	874	0.235	207	204	0.0	0.3	5.623	A	
				D	2	0.44	309	254	0.007	2	1	0.0	0.0	6.325	A	
			2	1	A	134	33	-	-	-	134	139	0.0	0.0	0.989	A
					B	317	79	-	-	-	318	317	0.0	0.1	0.990	A
					C	206	52	-	-	-	206	205	0.0	0.1	0.699	A
					D	2	0.46	-	-	-	2	1	0.0	0.0	1.184	A



## 08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	123	31	1098	676	0.183	123	123	0.2	0.2	6.909	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	302	75	1098	671	0.450	300	293	0.8	0.9	9.554	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	44	11	1098	679	0.065	43	45	0.2	0.2	12.996	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	192	48	1098	672	0.286	192	189	0.5	0.6	9.823	A	
				D	159	40	1098	671	0.236	155	161	0.4	0.7	12.570	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	189	47	1152	1335	0.141	190	188	0.2	0.2	6.038	A	
				D	543	136	1152	1341	0.405	544	542	0.6	0.8	6.093	A	
			2	A	138	35	1152	1345	0.103	139	141	0.2	0.1	3.065	A	
				B	3	0.74	579	682	0.004	3	3	0.0	0.0	3.068	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	138	35	-	-	-	138	141	0.0	0.0	0.378	A
					B	3	0.74	-	-	-	3	3	0.0	0.0	0.435	A
					C	189	47	-	-	-	189	189	0.0	0.0	0.446	A
					D	543	136	-	-	-	543	543	0.0	0.0	0.422	A
C	Entry	1	1	A	564	141	1167	919	0.613	566	554	0.8	2.3	13.903	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	216	54	1167	921	0.234	215	217	0.5	1.0	16.183	C	
			2	A	566	141	1167	918	0.616	566	553	1.0	2.4	14.003	B	
				B	219	55	1167	920	0.239	219	222	0.4	1.2	16.342	C	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	166	42	1055	716	0.232	166	165	0.3	0.8	13.189	B	
				B	374	94	1055	713	0.525	372	366	0.7	1.5	12.597	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	245	61	1055	713	0.343	244	238	0.3	0.5	7.576	A	
				D	1	0.32	321	229	0.006	1	2	0.0	0.0	6.459	A	
			2	1	A	169	42	-	-	-	166	167	0.0	0.6	7.730	A
					B	378	94	-	-	-	374	369	0.1	1.3	7.503	A
					C	246	61	-	-	-	245	239	0.1	0.7	6.874	A
					D	1	0.32	-	-	-	1	2	0.0	0.0	2.209	A

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	151	38	1098	644	0.234	151	150	0.2	0.4	7.939	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	366	92	1098	644	0.569	370	368	0.9	1.5	13.469	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	55	14	1098	646	0.085	55	52	0.2	0.3	18.190	C	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	216	54	1098	643	0.337	217	218	0.6	0.9	13.536	B	
				D	199	50	1098	644	0.309	201	201	0.7	1.0	18.608	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	228	57	1152	1209	0.189	229	231	0.2	0.7	9.676	A	
				D	673	168	1152	1209	0.557	678	665	0.8	2.0	9.890	A	
			2	A	179	45	1152	1211	0.148	179	175	0.1	0.2	3.744	A	
				B	3	0.81	647	691	0.005	3	3	0.0	0.0	3.561	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	179	45	-	-	-	179	175	0.0	0.2	2.813	A
					B	3	0.81	-	-	-	3	3	0.0	0.0	2.935	A
					C	228	57	-	-	-	228	233	0.0	0.3	3.029	A
					D	673	168	-	-	-	673	670	0.0	0.8	3.059	A
C	Entry	1	1	A	701	175	1167	828	0.846	599	596	2.3	25.9	85.364	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	270	67	1167	833	0.324	234	233	1.0	10.1	88.643	F	
			2	A	679	170	1167	830	0.818	586	594	2.4	25.4	85.714	F	
				B	277	69	1167	837	0.331	231	234	1.2	10.7	89.006	F	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	188	47	1055	653	0.287	187	185	0.8	1.1	19.314	C	
				B	419	105	1055	651	0.643	420	422	1.5	2.3	19.096	C	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	278	69	1055	651	0.427	277	275	0.5	1.0	10.917	B	
				D	2	0.49	376	237	0.008	2	2	0.0	0.0	12.034	B	
			2	1	A	200	50	-	-	-	188	187	0.6	4.3	51.433	F
					B	461	115	-	-	-	419	425	1.3	10.7	52.040	F
					C	305	76	-	-	-	278	277	0.7	7.0	51.721	F
					D	2	0.58	-	-	-	2	2	0.0	0.1	57.041	F

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	157	39	1098	637	0.246	157	155	0.4	0.3	8.189	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	367	92	1098	635	0.579	367	376	1.5	1.7	14.300	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	54	13	1098	642	0.084	53	56	0.3	0.4	20.108	C		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	209	52	1098	640	0.327	211	214	0.9	0.9	14.824	B		
				D	211	53	1098	640	0.329	211	205	1.0	1.2	19.539	C		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	226	57	1152	1215	0.186	228	232	0.7	0.6	10.646	B		
				D	667	167	1152	1214	0.549	671	672	2.0	1.7	10.700	B		
			2	A	175	44	1152	1209	0.145	175	172	0.2	0.2	3.792	A		
				B	3	0.77	647	675	0.005	3	3	0.0	0.0	3.556	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	175	44	-	-	-	175	172	0.2	0.2	3.983	A	
					B	3	0.79	-	-	-	3	3	0.0	0.0	3.772	A	
					C	226	57	-	-	-	226	231	0.3	0.2	4.263	A	
					D	664	166	-	-	-	667	671	0.8	0.6	4.086	A	
C	Entry	1	1	A	686	172	1167	826	0.831	593	596	25.9	49.4	229.674	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	280	70	1167	828	0.338	243	239	10.1	20.5	231.893	F		
			2	A	681	170	1167	823	0.828	595	590	25.4	49.3	229.311	F		
				B	275	69	1167	828	0.332	235	237	10.7	20.3	234.414	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	190	47	1055	650	0.292	190	190	1.1	1.1	20.792	C		
				B	432	108	1055	647	0.667	431	427	2.3	2.5	20.538	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	275	69	1055	648	0.425	276	282	1.0	0.8	11.348	B		
				D	2	0.49	475	292	0.007	2	2	0.0	0.0	12.028	B		
			2	1	A	201	50	-	-	-	190	190	4.3	8.1	127.746	F	
					B	460	115	-	-	-	432	428	10.7	18.8	128.598	F	
					C	299	75	-	-	-	275	282	7.0	12.0	124.733	F	
					D	2	0.51	-	-	-	2	2	0.1	0.1	129.408	F	

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	125	31	1098	653	0.191	124	123	0.3	0.3	7.713	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	298	74	1098	654	0.455	297	298	1.7	1.0	10.806	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	45	11	1098	652	0.069	45	46	0.4	0.2	14.839	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	186	46	1098	657	0.282	186	186	0.9	0.5	10.961	B		
				D	165	41	1098	656	0.252	165	169	1.2	0.7	14.837	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	193	48	1152	1333	0.145	194	194	0.6	0.3	6.718	A		
				D	537	134	1152	1331	0.403	539	547	1.7	0.9	6.773	A		
			2	A	135	34	1152	1328	0.102	134	141	0.2	0.1	3.241	A		
				B	3	0.81	640	716	0.005	3	3	0.0	0.0	3.571	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	135	34	-	-	-	135	140	0.2	0.0	0.731	A	
					B	3	0.81	-	-	-	3	3	0.0	0.0	0.583	A	
					C	193	48	-	-	-	193	192	0.2	0.0	0.706	A	
					D	536	134	-	-	-	537	544	0.6	0.1	0.762	A	
C	Entry	1	1	A	562	140	1167	934	0.601	651	637	49.4	28.2	219.298	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	221	55	1167	931	0.237	259	257	20.5	11.3	224.260	F		
			2	A	571	143	1167	936	0.610	650	647	49.3	28.5	217.438	F		
				B	220	55	1167	931	0.237	266	262	20.3	11.2	219.620	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	168	42	1055	597	0.281	168	175	1.1	1.0	21.305	C		
				B	375	94	1055	595	0.631	375	396	2.5	2.3	21.208	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	246	62	1055	596	0.413	247	258	0.8	0.8	11.761	B		
				D	2	0.53	383	222	0.009	2	2	0.0	0.0	12.119	B		
			2	1	A	166	41	-	-	-	168	174	8.1	6.3	141.003	F	
					B	375	94	-	-	-	375	395	18.8	14.2	140.773	F	
					C	247	62	-	-	-	246	259	12.0	9.4	139.485	F	
					D	2	0.47	-	-	-	2	2	0.1	0.1	137.567	F	

09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	106	26	1098	689	0.153	105	105	0.3	0.2	6.983	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	243	61	1098	691	0.351	244	242	1.0	0.6	8.807	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		3	A	36	9	1098	692	0.053	37	38	0.2	0.1	11.607	B		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	174	44	1098	690	0.253	174	166	0.5	0.5	9.106	A		
			D	135	34	1098	690	0.195	135	141	0.7	0.4	11.544	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	163	41	1152	1428	0.114	164	158	0.3	0.2	4.902	A	
				D	457	114	1152	1427	0.320	458	458	0.9	0.6	4.917	A	
			2	A	121	30	1152	1431	0.084	121	121	0.1	0.1	2.859	A	
				B	2	0.56	377	465	0.005	2	2	0.0	0.0	2.834	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	A	121	30	-	-	-	121	121	0.0	0.0	0.139	A	
				B	2	0.56	-	-	-	2	2	0.0	0.0	0.239	A	
				C	162	41	-	-	-	163	157	0.0	0.0	0.169	A	
				D	457	114	-	-	-	457	456	0.1	0.0	0.146	A	
C	Entry	1	1	A	465	116	1167	977	0.476	500	575	28.2	1.8	58.026	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	185	46	1167	978	0.189	199	230	11.3	1.0	60.463	F	
		2	1	A	472	118	1167	978	0.483	507	579	28.5	1.9	58.119	F	
				B	190	47	1167	977	0.194	204	228	11.2	0.8	59.194	F	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	161	40	1055	810	0.199	163	165	1.0	0.5	17.986	C	
				B	359	90	1055	813	0.442	366	373	2.3	1.2	18.185	C	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	226	56	1055	809	0.279	228	238	0.8	0.4	10.453	B
					D	2	0.40	346	221	0.007	2	2	0.0	0.0	10.535	B
		2	1	A	141	35	-	-	-	161	163	6.3	1.1	73.321	F	
				B	318	80	-	-	-	359	369	14.2	2.3	72.273	F	
				C	202	50	-	-	-	226	236	9.4	1.6	70.541	F	
				D	1	0.37	-	-	-	2	1	0.1	0.0	74.674	F	

# 2035 Scenario 2, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Lane Simulation	Arm D - Lane Simulation	Arm D: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	172.79	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	172.79	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2035 Scenario 2	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	894	100.000
B		ONE HOUR	✓	1053	100.000
C		ONE HOUR	✓	1738	100.000
D		ONE HOUR	✓	976	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	55	154	535	150
	B	169	3	235	646
	C	1203	247	0	288
	D	239	463	272	2

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	8	7	28	9
	B	4	0	4	6
	C	4	3	0	4
	D	6	0	4	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	13.34	4.1	B	823	1234
B	15.34	4.9	C	968	1452
C	231.29	140.8	F	1589	2383
D	385.17	95.7	F	898	1346

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	667	167	679		669	669	1238	0.0	1.5	8.136	A
B	785	196	728	4.52	787	797	652	0.0	1.1	4.761	A
C	1293	323	682		1300	1294	783	0.0	2.8	8.017	A
D	735	184	1221	4.52	734	731	816	0.0	1.9	9.786	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	814	203	832		813	799	1486	1.5	2.3	9.934	A
B	950	238	890	5.39	949	940	781	1.1	1.8	6.192	A
C	1561	390	856		1556	1538	938	2.8	7.2	15.242	C
D	881	220	1484	5.39	860	851	974	1.9	9.3	26.564	D

**08:15 - 08:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	998	249	932		993	985	1593	2.3	4.1	13.152	B
B	1153	288	1076	6.61	1151	1140	855	1.8	4.8	12.828	B
C	1911	478	1044		1650	1648	1121	7.2	70.9	88.086	F
D	1075	269	1592	6.61	923	913	1149	9.3	49.1	119.474	F

**08:30 - 08:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	981	245	900		980	989	1605	4.1	3.8	13.345	B
B	1169	292	1059	6.61	1173	1165	833	4.8	4.9	15.338	C
C	1913	478	1070		1631	1631	1097	70.9	140.8	231.295	F
D	1081	270	1589	6.61	910	910	1161	49.1	92.9	290.387	F

**08:45 - 09:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	801	200	878		806	810	1648	3.8	2.3	10.858	B
B	957	239	893	5.39	958	968	801	4.9	1.9	7.819	A
C	1557	389	860		1784	1781	912	140.8	84.9	229.705	F
D	885	221	1670	5.39	843	872	1029	92.9	95.7	385.173	F

**09:00 - 09:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	675	169	924		674	678	1404	2.3	2.0	9.440	A
B	793	198	827	4.52	792	800	795	1.9	1.1	5.173	A
C	1299	325	702		1418	1623	872	84.9	6.5	66.265	F
D	729	182	1328	4.52	1023	937	835	95.7	44.6	272.213	F



## Lane Results

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

### Lanes: Main Results for each time segment

#### 07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	117		701	0.166	117	116	0.0	0.2	6.484	A
			2	C	230		701	0.328	231	231	0.0	0.5	8.079	A
			3	A, C, D	321		701	0.457	321	323	0.0	0.9	8.826	A
	Exit	1	1		1238				1238	1246	0.0	0.0	0.000	A
B	Entry	1	1	C, D	661		1464	0.451	663	668	0.0	0.9	4.845	A
			2	A, B	125		1464	0.085	124	129	0.0	0.2	2.880	A
	Exit	1	1	(A, B, C, D)	785	4.52			786	802	0.0	0.0	0.238	A
			2	1		652	4.52			652	649	0.0	0.0	0.125
C	Entry	1	1	A, D	657		982	0.670	659	653	0.0	1.6	8.033	A
			2	A, B, C	636		982	0.648	641	641	0.0	1.3	8.001	A
	Exit	1	1		783				783	786	0.0	0.0	0.000	A
D	Entry	1	1	A, B	528		890	0.593	528	526	0.0	1.3	8.905	A
			2	C, D	205		890	0.231	206	206	0.0	0.3	5.523	A
	Exit	1	1	(A, B, C, D)	735	4.52			733	738	0.0	0.3	1.808	A
			2	1		816	4.52			816	812	0.0	0.0	0.150

#### 08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	145		661	0.219	145	141	0.2	0.3	7.289	A
			2	C	286		661	0.432	285	280	0.5	0.8	9.586	A
			3	A, C, D	383		661	0.579	383	378	0.9	1.3	11.253	B
	Exit	1	1		1486				1486	1480	0.0	0.0	0.000	A
B	Entry	1	1	C, D	793		1354	0.586	793	783	0.9	1.5	6.196	A
			2	A, B	156		1354	0.115	156	157	0.2	0.2	3.171	A
	Exit	1	1	(A, B, C, D)	950	5.39			949	942	0.0	0.2	0.504	A
			2	1		781	5.39			781	762	0.0	0.0	0.098
C	Entry	1	1	A, D	782		907	0.862	781	773	1.6	3.6	15.325	C
			2	A, B, C	779		907	0.858	775	765	1.3	3.6	15.159	C
	Exit	1	1		938				938	923	0.0	0.0	0.000	A
D	Entry	1	1	A, B	616		734	0.840	615	608	1.3	2.9	13.994	B
			2	C, D	247		734	0.337	245	243	0.3	0.6	7.568	A
	Exit	1	1	(A, B, C, D)	881	5.39			864	859	0.3	5.8	14.231	B
			2	1		974	5.39			974	964	0.0	0.0	0.113

## 08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	170		635	0.267	169	171	0.3	0.5	8.456	A
			2	C	373		635	0.588	371	364	0.8	1.5	12.653	B
			3	A, C, D	455		635	0.716	454	450	1.3	2.2	15.486	C
	Exit	1	1		1593				1593	1605	0.0	0.0	0.000	A
B	Entry	1	1	C, D	966		1228	0.787	965	951	1.5	2.9	10.146	B
			2	A, B	185		1228	0.151	186	188	0.2	0.2	3.651	A
	Exit	1	1	(A, B, C, D)	1153	6.61			1152	1145	0.2	1.7	3.733	A
			1		854	6.61			855	844	0.0	0.0	0.119	A
			2		855				855	844	0.0	0.0	0.000	A
C	Entry	1	1	A, D	956		827	1.156	826	822	3.6	35.4	88.460	F
			2	A, B, C	955		827	1.154	824	826	3.6	35.4	87.713	F
	Exit	1	1		1121				1121	1100	0.0	0.0	0.000	A
D	Entry	1	1	A, B	666		670	0.994	663	656	2.9	3.9	19.725	C
			2	C, D	259		670	0.386	261	258	0.6	0.6	9.785	A
	Exit	1	1	(A, B, C, D)	1075	6.61			924	918	5.8	44.5	102.268	F
			1		1150	6.61			1149	1137	0.0	0.1	0.179	A
		2	1		1149				1149	1137	0.0	0.0	0.000	A

## 08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	174		644	0.270	174	171	0.5	0.4	8.298	A
			2	C	360		644	0.560	359	361	1.5	1.4	13.202	B
			3	A, C, D	446		644	0.693	447	457	2.2	1.9	15.523	C
	Exit	1	1		1605				1605	1597	0.0	0.0	0.000	A
B	Entry	1	1	C, D	978		1239	0.790	980	977	2.9	3.0	11.024	B
			2	A, B	192		1239	0.155	193	188	0.2	0.2	3.642	A
	Exit	1	1	(A, B, C, D)	1169	6.61			1170	1166	1.7	1.8	5.507	A
			1		833	6.61			833	835	0.0	0.0	0.140	A
			2		833				833	835	0.0	0.0	0.000	A
C	Entry	1	1	A, D	958		816	1.174	818	812	35.4	70.4	232.337	F
			2	A, B, C	955		816	1.170	814	818	35.4	70.4	230.262	F
	Exit	1	1		1097				1097	1106	0.0	0.0	0.000	A
D	Entry	1	1	A, B	655		672	0.974	653	653	3.9	3.9	20.967	C
			2	C, D	256		672	0.381	257	257	0.6	0.6	10.443	B
	Exit	1	1	(A, B, C, D)	1081	6.61			911	910	44.5	88.4	272.344	F
			1		1160	6.61			1161	1157	0.1	0.1	0.210	A
		2	1		1161				1161	1157	0.0	0.0	0.000	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	139		649	0.215	141	140	0.4	0.2	7.509	A
			2	C	288		649	0.443	289	290	1.4	0.8	10.210	B
			3	A, C, D	374		649	0.576	376	379	1.9	1.3	12.670	B
	Exit	1	1		1648				1648	1657	0.0	0.0	0.000	A
B	Entry	1	1	C, D	806		1352	0.596	806	811	3.0	1.5	7.316	A
			2	A, B	150		1352	0.111	151	156	0.2	0.1	3.315	A
	Exit	1	1	(A, B, C, D)	957	5.39			956	962	1.8	0.3	1.220	A
			2		801	5.39			801	810	0.0	0.0	0.135	A
C	Entry	1	1	A, D	779		906	0.860	891	891	70.4	42.6	229.382	F
			2	A, B, C	778		906	0.859	892	890	70.4	42.3	230.028	F
	Exit	1	1		912				912	935	0.0	0.0	0.000	A
D	Entry	1	1	A, B	614		624	0.984	614	630	3.9	3.9	21.781	C
			2	C, D	228		624	0.366	229	242	0.6	0.7	10.946	B
	Exit	1	1	(A, B, C, D)	885	5.39			842	872	88.4	91.1	366.372	F
			2		1029	5.39			1029	1029	0.1	0.0	0.186	A
		2	1		1029				1029	1029	0.0	0.0	0.000	A

## 09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	116		637	0.183	117	116	0.2	0.2	7.397	A
			2	C	236		637	0.370	235	235	0.8	0.8	8.968	A
			3	A, C, D	323		637	0.507	323	326	1.3	1.0	10.567	B
	Exit	1	1		1404				1404	1519	0.0	0.0	0.000	A
B	Entry	1	1	C, D	669		1397	0.479	669	673	1.5	0.9	5.340	A
			2	A, B	124		1397	0.088	123	128	0.1	0.1	2.944	A
	Exit	1	1	(A, B, C, D)	793	4.52			793	798	0.3	0.1	0.238	A
			2		795	4.52			795	789	0.0	0.0	0.105	A
C	Entry	1	1	A, D	658		973	0.676	718	815	42.6	3.3	66.378	F
			2	A, B, C	641		973	0.659	701	808	42.3	3.2	66.151	F
	Exit	1	1		872				872	848	0.0	0.0	0.000	A
D	Entry	1	1	A, B	730		826	0.884	733	671	3.9	3.4	19.541	C
			2	C, D	290		826	0.350	290	266	0.7	0.7	9.922	A
	Exit	1	1	(A, B, C, D)	729	4.52			1020	935	91.1	40.5	255.210	F
			2		836	4.52			835	883	0.0	0.0	0.099	A
		2	1		835				835	883	0.0	0.0	0.000	A

**Lane movements: Main Results for each time segment**

07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	117	29	1098	703	0.166	117	116	0.0	0.2	6.484	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	230	57	1098	701	0.328	231	231	0.0	0.5	8.079	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	40	10	1098	702	0.057	40	41	0.0	0.2	9.507	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	167	42	1098	701	0.238	168	171	0.0	0.4	8.059	A	
				D	113	28	1098	702	0.161	113	111	0.0	0.3	9.581	A	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	179	45	1152	1468	0.122	180	181	0.0	0.2	4.799	A	
				D	481	120	1152	1466	0.328	483	488	0.0	0.7	4.863	A	
			2	A	123	31	1152	1466	0.084	122	127	0.0	0.2	2.895	A	
				B	2	0.48	504	648	0.003	2	2	0.0	0.0	2.088	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	123	31	-	-	-	123	127	0.0	0.0	0.213	A
					B	2	0.50	-	-	-	2	2	0.0	0.0	0.406	A
					C	179	45	-	-	-	179	181	0.0	0.0	0.250	A
					D	481	120	-	-	-	481	490	0.0	0.0	0.239	A
C	Entry	1	1	A	440	110	1167	977	0.451	441	441	0.0	1.0	7.447	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	217	54	1167	977	0.222	218	212	0.0	0.6	9.249	A	
			2	A	455	114	1167	975	0.466	458	458	0.0	0.9	7.472	A	
				B	181	45	1167	978	0.185	183	183	0.0	0.4	9.307	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	177	44	1055	886	0.199	178	178	0.0	0.4	9.027	A	
				B	351	88	1055	889	0.395	350	347	0.0	0.8	8.846	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	203	51	1055	888	0.229	204	204	0.0	0.3	5.524	A	
				D	2	0.48	318	268	0.007	2	2	0.0	0.0	5.444	A	
			2	1	A	177	44	-	-	-	177	180	0.0	0.1	1.799	A
					B	352	88	-	-	-	351	350	0.0	0.1	1.955	A
					C	204	51	-	-	-	203	206	0.0	0.1	1.556	A
					D	2	0.48	-	-	-	2	2	0.0	0.0	1.660	A

## 08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	145	36	1098	660	0.219	145	141	0.2	0.3	7.289	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	286	71	1098	663	0.431	285	280	0.5	0.8	9.586	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	51	13	1098	661	0.077	50	50	0.2	0.2	12.280	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	195	49	1098	660	0.295	197	193	0.4	0.5	9.954	A	
				D	137	34	1098	660	0.208	136	135	0.3	0.6	12.446	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	213	53	1152	1355	0.157	212	209	0.2	0.4	6.147	A	
				D	581	145	1152	1357	0.428	581	574	0.7	1.1	6.214	A	
			2	A	154	38	1152	1356	0.113	153	154	0.2	0.2	3.177	A	
				B	2	0.57	538	644	0.004	2	3	0.0	0.0	2.879	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	154	38	-	-	-	154	155	0.0	0.0	0.396	A
					B	2	0.57	-	-	-	2	3	0.0	0.0	0.398	A
					C	213	53	-	-	-	213	209	0.0	0.0	0.500	A
					D	582	145	-	-	-	581	576	0.0	0.1	0.535	A
C	Entry	1	1	A	526	132	1167	906	0.580	526	520	1.0	2.3	14.465	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	256	64	1167	903	0.283	255	253	0.6	1.2	17.094	C	
			2	A	552	138	1167	907	0.609	548	546	0.9	2.5	14.421	B	
				B	226	57	1167	912	0.248	227	219	0.4	1.1	16.983	C	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	208	52	1055	734	0.283	209	209	0.4	0.9	14.253	B	
				B	408	102	1055	733	0.557	406	399	0.8	2.0	13.867	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	246	61	1055	730	0.337	244	241	0.3	0.6	7.574	A	
				D	1	0.36	377	272	0.005	1	2	0.0	0.0	6.737	A	
			2	1	A	212	53	-	-	-	208	211	0.1	1.5	14.584	B
					B	417	104	-	-	-	408	404	0.1	2.7	14.748	B
					C	250	63	-	-	-	246	242	0.1	1.6	12.997	B
					D	1	0.35	-	-	-	1	2	0.0	0.0	18.906	C

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	170	42	1098	635	0.267	169	171	0.3	0.5	8.456	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	373	93	1098	637	0.586	371	364	0.8	1.5	12.653	B		
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
			3	A	57	14	1098	644	0.088	57	58	0.2	0.3	17.071	C		
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				C	234	59	1098	636	0.369	233	227	0.5	1.0	13.337	B		
				D	164	41	1098	637	0.257	164	165	0.6	0.9	17.464	C		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	257	64	1152	1231	0.209	258	253	0.4	0.7	10.151	B		
				D	710	177	1152	1230	0.577	706	698	1.1	2.1	10.145	B		
			2	A	182	46	1152	1231	0.148	182	185	0.2	0.1	3.653	A		
				B	3	0.80	585	630	0.005	3	3	0.0	0.0	3.540	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	182	45	-	-	-	182	185	0.0	0.2	3.524	A	
					B	3	0.80	-	-	-	3	3	0.0	0.0	3.533	A	
					C	257	64	-	-	-	257	255	0.0	0.4	3.857	A	
					D	711	178	-	-	-	710	702	0.1	1.2	3.744	A	
C	Entry	1	1	A	641	160	1167	829	0.774	549	550	2.3	24.0	87.490	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	314	79	1167	830	0.379	277	272	1.2	11.4	90.428	F		
			2	A	682	170	1167	825	0.826	588	592	2.5	25.3	86.833	F		
				B	273	68	1167	828	0.330	236	234	1.1	10.1	89.909	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	218	54	1055	670	0.325	216	221	0.9	1.4	19.989	C		
				B	448	112	1055	669	0.670	447	435	2.0	2.6	19.600	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				C	257	64	1055	671	0.383	259	256	0.6	0.6	9.770	A		
				D	2	0.54	398	262	0.008	2	2	0.0	0.0	11.642	B		
			2	1	A	259	65	-	-	-	218	222	1.5	10.7	102.386	F	
					B	513	128	-	-	-	448	438	2.7	21.1	102.560	F	
					C	301	75	-	-	-	257	256	1.6	12.6	101.646	F	
					D	2	0.54	-	-	-	2	2	0.0	0.1	102.911	F	

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	174	44	1098	646	0.270	174	171	0.5	0.4	8.298	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	360	90	1098	643	0.560	359	361	1.5	1.4	13.202	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	61	15	1098	644	0.095	61	61	0.3	0.3	17.312	C		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	222	55	1098	644	0.344	222	229	1.0	0.9	13.406	B		
				D	163	41	1098	644	0.253	164	167	0.9	0.7	17.337	C		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	261	65	1152	1240	0.211	261	260	0.7	0.8	10.980	B		
				D	717	179	1152	1241	0.578	718	718	2.1	2.2	11.040	B		
			2	A	189	47	1152	1241	0.152	190	185	0.1	0.2	3.641	A		
				B	3	0.75	625	663	0.005	3	3	0.0	0.0	3.736	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	188	47	-	-	-	189	185	0.2	0.3	5.119	A	
					B	3	0.78	-	-	-	3	3	0.0	0.0	5.742	A	
					C	261	65	-	-	-	261	260	0.4	0.4	5.594	A	
					D	717	179	-	-	-	717	718	1.2	1.1	5.576	A	
C	Entry	1	1	A	643	161	1167	816	0.788	542	541	24.0	47.3	230.952	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	315	79	1167	823	0.382	276	271	11.4	23.1	235.108	F		
			2	A	682	171	1167	817	0.836	588	589	25.3	50.1	229.471	F		
				B	273	68	1167	817	0.334	226	230	10.1	20.2	232.261	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	223	56	1055	673	0.331	223	222	1.4	1.3	21.228	C		
				B	432	108	1055	673	0.641	430	431	2.6	2.6	20.840	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	254	64	1055	674	0.377	255	255	0.6	0.6	10.449	B		
				D	2	0.54	403	265	0.008	2	2	0.0	0.0	9.693	A		
			2	1	A	265	66	-	-	-	223	221	10.7	21.9	275.016	F	
					B	509	127	-	-	-	432	431	21.1	41.7	272.461	F	
					C	304	76	-	-	-	254	255	12.6	24.7	269.973	F	
					D	3	0.69	-	-	-	2	2	0.1	0.2	255.140	F	

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	139	35	1098	649	0.214	141	140	0.4	0.2	7.509	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	288	72	1098	650	0.443	289	290	1.4	0.8	10.210	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	47	12	1098	647	0.072	47	50	0.3	0.1	14.227	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	186	47	1098	648	0.287	186	191	0.9	0.6	10.593	B		
				D	141	35	1098	650	0.218	143	138	0.7	0.5	14.563	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	210	53	1152	1349	0.156	210	213	0.8	0.4	7.208	A		
				D	595	149	1152	1351	0.440	596	598	2.2	1.1	7.356	A		
			2	A	148	37	1152	1353	0.110	149	154	0.2	0.1	3.313	A		
				B	2	0.53	509	588	0.004	2	3	0.0	0.0	3.466	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	149	37	-	-	-	148	154	0.3	0.0	1.086	A	
					B	2	0.53	-	-	-	2	3	0.0	0.0	0.878	A	
					C	210	53	-	-	-	210	212	0.4	0.0	1.253	A	
					D	596	149	-	-	-	595	594	1.1	0.2	1.245	A	
C	Entry	1	1	A	523	131	1167	904	0.578	604	600	47.3	28.3	227.678	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	256	64	1167	903	0.283	288	291	23.1	14.3	232.883	F		
			2	A	559	140	1167	902	0.620	639	636	50.1	30.1	229.265	F		
				B	219	55	1167	906	0.242	254	253	20.2	12.2	231.932	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	209	52	1055	623	0.336	209	216	1.3	1.4	21.834	C		
				B	405	101	1055	622	0.650	405	414	2.6	2.5	21.756	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	226	57	1055	621	0.364	227	240	0.6	0.7	10.942	B		
				D	2	0.50	377	236	0.008	2	2	0.0	0.0	11.532	B		
			2	1	A	218	54	-	-	-	209	216	21.9	22.2	364.778	F	
					B	421	105	-	-	-	405	414	41.7	43.5	366.995	F	
					C	244	61	-	-	-	226	240	24.7	25.2	366.755	F	
					D	2	0.50	-	-	-	2	2	0.2	0.2	352.736	F	



09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	116	29	1098	636	0.183	117	116	0.2	0.2	7.397	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	236	59	1098	638	0.370	235	235	0.8	0.8	8.968	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	44	11	1098	639	0.069	44	43	0.1	0.2	11.533	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	166	41	1098	638	0.259	166	168	0.6	0.5	9.282	A		
				D	113	28	1098	639	0.178	113	115	0.5	0.4	11.799	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	183	46	1152	1399	0.131	183	181	0.4	0.2	5.298	A		
				D	486	122	1152	1396	0.348	485	492	1.1	0.7	5.355	A		
			2	A	122	30	1152	1393	0.087	122	125	0.1	0.1	2.954	A		
				B	2	0.44	492	601	0.003	2	2	0.0	0.0	2.436	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	122	30	-	-	-	122	125	0.0	0.0	0.225	A	
					B	2	0.44	-	-	-	2	2	0.0	0.0	0.178	A	
					C	183	46	-	-	-	183	180	0.0	0.0	0.231	A	
					D	486	122	-	-	-	486	490	0.2	0.0	0.244	A	
C	Entry	1	1	A	443	111	1167	975	0.454	482	542	28.3	2.0	65.254	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	215	54	1167	974	0.221	235	274	14.3	1.3	68.596	F		
			2	A	462	115	1167	974	0.474	502	579	30.1	2.4	64.952	F		
				B	179	45	1167	975	0.184	199	229	12.2	0.8	69.168	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	253	63	1055	825	0.307	255	229	1.4	1.3	19.808	C		
				B	477	119	1055	827	0.577	478	441	2.5	2.1	19.411	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	288	72	1055	824	0.349	288	264	0.7	0.7	9.924	A		
				D	2	0.48	403	280	0.007	2	2	0.0	0.0	9.743	A		
			2	1	A	176	44	-	-	-	253	229	22.2	9.7	254.790	F	
					B	348	87	-	-	-	477	440	43.5	19.6	257.035	F	
					C	204	51	-	-	-	288	264	25.2	11.2	252.351	F	
					D	1	0.32	-	-	-	2	2	0.2	0.1	274.175	F	

# 2035 Scenario 3, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Lane Simulation	Arm C - Lane Simulation	Arm C: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Last Run	Lane Simulation	Arm D - Lane Simulation	Arm D: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	182.53	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	182.53	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2035 Scenario 3	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	917	100.000
B		ONE HOUR	✓	1164	100.000
C		ONE HOUR	✓	1740	100.000
D		ONE HOUR	✓	954	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	49	183	535	150
	B	157	3	234	770
	C	1245	247	0	248
	D	197	483	272	2

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	8	7	28	9
	B	4	0	4	6
	C	4	3	0	4
	D	6	0	4	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	14.07	4.7	B	842	1263
B	33.01	11.6	D	1064	1596
C	344.32	181.2	F	1591	2387
D	232.27	63.5	F	874	1311

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	703	176	697		701	693	1235	0.0	1.7	8.447	A
B	865	216	735	4.52	864	871	700	0.0	1.4	5.251	A
C	1304	326	786		1303	1290	774	0.0	3.4	8.572	A
D	716	179	1260	4.52	716	709	873	0.0	1.9	9.885	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	826	207	838		829	821	1466	1.7	2.6	9.725	A
B	1051	263	883	5.39	1049	1047	820	1.4	2.8	8.168	A
C	1556	389	939		1557	1537	930	3.4	10.0	19.807	C
D	848	212	1496	5.39	846	840	1065	1.9	7.0	24.160	C

**08:15 - 08:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1013	253	945		1013	1008	1555	2.6	4.0	13.182	B
B	1261	315	1071	6.61	1241	1237	899	2.8	11.2	23.345	C
C	1909	477	1164		1587	1583	1117	10.0	94.2	121.934	F
D	1045	261	1566	6.61	938	918	1209	7.0	39.3	98.516	F

**08:30 - 08:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1022	256	966		1013	1017	1523	4.0	4.7	14.065	B
B	1280	320	1073	6.61	1291	1277	915	11.2	11.6	33.015	D
C	1909	477	1151		1533	1553	1135	94.2	181.2	314.427	F
D	1052	263	1512	6.61	976	957	1240	39.3	63.5	202.568	F

**08:45 - 09:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	814	203	923		818	838	1608	4.7	2.5	11.396	B
B	1055	264	904	5.39	1056	1084	848	11.6	2.5	13.525	B
C	1545	386	895		1730	1706	946	181.2	144.3	344.320	F
D	858	215	1637	5.39	878	897	1080	63.5	53.0	232.267	F

**09:00 - 09:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	673	168	862		674	688	1501	2.5	1.7	9.123	A
B	871	218	760	4.52	876	879	800	2.5	1.2	5.631	A
C	1323	331	774		1645	1759	795	144.3	33.3	157.195	F
D	724	181	1533	4.52	841	812	940	53.0	29.1	161.632	F

## Lane Results

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

### Lanes: Main Results for each time segment

#### 07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	145		697	0.208	144	141	0.0	0.3	6.779	A
			2	C	231		697	0.332	231	233	0.0	0.5	8.144	A
			3	A, C, D	327		697	0.469	325	319	0.0	0.9	9.459	A
	Exit	1	1		1235				1235	1226	0.0	0.0	0.000	A
B	Entry	1	1	C, D	743		1460	0.509	743	751	0.0	1.1	5.234	A
			2	A, B	121		1460	0.083	121	120	0.0	0.1	2.796	A
	Exit	1	1	(A, B, C, D)	865	4.52			864	876	0.0	0.1	0.355	A
			2	1		700	4.52			700	689	0.0	0.0	0.128
C	Entry	1	1	A, D	660		937	0.704	657	649	0.0	1.8	8.498	A
			2	A, B, C	645		937	0.688	645	641	0.0	1.6	8.647	A
	Exit	1	1		774				774	774	0.0	0.0	0.000	A
D	Entry	1	1	A, B	510		867	0.588	512	508	0.0	1.2	9.104	A
			2	C, D	205		867	0.237	204	200	0.0	0.4	5.665	A
	Exit	1	1	(A, B, C, D)	716	4.52			715	715	0.0	0.4	1.728	A
			2	1		874	4.52			873	874	0.0	0.0	0.180

#### 08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	165		660	0.250	164	166	0.3	0.4	8.150	A
			2	C	280		660	0.424	281	281	0.5	0.9	9.313	A
			3	A, C, D	382		660	0.579	384	375	0.9	1.3	10.776	B
	Exit	1	1		1466				1466	1453	0.0	0.0	0.000	A
B	Entry	1	1	C, D	909		1359	0.669	907	904	1.1	2.3	7.512	A
			2	A, B	143		1359	0.106	142	143	0.1	0.2	3.084	A
	Exit	1	1	(A, B, C, D)	1051	5.39			1052	1052	0.1	0.4	1.261	A
			2	1		820	5.39			820	814	0.0	0.1	0.123
C	Entry	1	1	A, D	772		872	0.885	772	767	1.8	5.0	19.892	C
			2	A, B, C	785		872	0.900	785	771	1.6	5.0	19.722	C
	Exit	1	1		930				930	929	0.0	0.0	0.000	A
D	Entry	1	1	A, B	604		727	0.831	602	599	1.2	2.7	14.338	B
			2	C, D	240		727	0.331	244	240	0.4	0.5	7.860	A
	Exit	1	1	(A, B, C, D)	848	5.39			844	846	0.4	3.8	11.560	B
			2	1		1065	5.39			1065	1049	0.0	0.0	0.164

## 08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	B	199		632	0.315	201	201	0.4	0.4	9.082	A	
			2	C	360		632	0.570	360	362	0.9	1.4	12.829	B	
			3	A, C, D	453		632	0.718	452	445	1.3	2.2	15.461	C	
	Exit	1	1		1555				1555	1548	0.0	0.0	0.000	A	
B	Entry	1	1	C, D	1069		1231	0.868	1069	1065	2.3	4.2	12.576	B	
			2	A, B	172		1231	0.139	172	172	0.2	0.2	3.577	A	
	Exit	1	1	(A, B, C, D)	1261	6.61			1240	1245	0.4	6.8	11.949	B	
			1	1		898	6.61			899	889	0.1	0.0	0.138	A
			2	1		899				899	889	0.0	0.0	0.000	A
C	Entry	1	1	A, D	944		776	1.216	783	789	5.0	47.1	121.902	F	
			2	A, B, C	966		776	1.244	804	795	5.0	47.1	121.966	F	
	Exit	1	1		1117				1117	1101	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	661		685	0.964	663	651	2.7	3.6	19.423	C	
			2	C, D	276		685	0.403	275	268	0.5	0.9	10.301	B	
	Exit	1	1	(A, B, C, D)	1045	6.61			937	924	3.8	34.9	81.627	F	
			2	1		1208	6.61			1209	1209	0.0	0.0	0.228	A
			2	1					1209	1209	0.0	0.0	0.000	A	

## 08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	B	205		626	0.328	203	202	0.4	0.7	9.206	A	
			2	C	369		626	0.589	365	366	1.4	1.8	13.904	B	
			3	A, C, D	448		626	0.715	445	449	2.2	2.2	16.595	C	
	Exit	1	1		1523				1523	1535	0.0	0.0	0.000	A	
B	Entry	1	1	C, D	1113		1230	0.906	1118	1103	4.2	4.1	13.905	B	
			2	A, B	173		1230	0.141	173	174	0.2	0.2	3.669	A	
	Exit	1	1	(A, B, C, D)	1280	6.61			1286	1276	6.8	7.3	20.482	C	
			1	1		915	6.61			915	907	0.0	0.1	0.143	A
			2	1		915				915	907	0.0	0.0	0.000	A
C	Entry	1	1	A, D	953		782	1.220	766	779	47.1	90.6	314.382	F	
			2	A, B, C	956		782	1.223	767	774	47.1	90.6	314.473	F	
	Exit	1	1		1135				1135	1126	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	697		717	0.971	697	683	3.6	3.7	19.611	C	
			2	C, D	281		717	0.392	279	274	0.9	0.9	9.958	A	
	Exit	1	1	(A, B, C, D)	1052	6.61			978	957	34.9	58.9	185.614	F	
			2	1		1240	6.61			1240	1235	0.0	0.1	0.245	A
			2	1					1240	1235	0.0	0.0	0.000	A	

## 08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	B	162		638	0.254	163	168	0.7	0.4	8.553	A	
			2	C	283		638	0.443	283	289	1.8	0.9	11.328	B	
			3	A, C, D	369		638	0.579	372	382	2.2	1.2	12.830	B	
	Exit	1	1		1608				1608	1597	0.0	0.0	0.000	A	
B	Entry	1	1	C, D	908		1345	0.675	908	933	4.1	2.1	9.330	A	
			2	A, B	147		1345	0.109	148	151	0.2	0.1	3.366	A	
	Exit	1	1	(A, B, C, D)	1055	5.39			1055	1076	7.3	0.4	5.258	A	
			1	1		849	5.39			848	869	0.1	0.1	0.150	A
			2	1		848				848	869	0.0	0.0	0.000	A
C	Entry	1	1	A, D	772		891	0.867	866	856	90.6	72.1	342.459	F	
			2	A, B, C	773		891	0.868	864	850	90.6	72.2	346.191	F	
	Exit	1	1		946				946	963	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	621		643	0.966	621	640	3.7	3.6	20.723	C	
			2	C, D	257		643	0.400	256	258	0.9	0.8	10.414	B	
	Exit	1	1	(A, B, C, D)	858	5.39			878	897	58.9	48.6	214.021	F	
			2	1		1079	5.39			1080	1097	0.1	0.0	0.235	A
			2	1					1080	1097	0.0	0.0	0.000	A	

## 09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	B	139		653	0.213	140	139	0.4	0.3	7.856	A	
			2	C	221		653	0.338	222	229	0.9	0.5	9.001	A	
			3	A, C, D	313		653	0.480	312	320	1.2	0.9	9.808	A	
	Exit	1	1		1501				1501	1586	0.0	0.0	0.000	A	
B	Entry	1	1	C, D	757		1442	0.525	761	761	2.1	1.1	5.704	A	
			2	A, B	115		1442	0.079	116	118	0.1	0.0	2.838	A	
	Exit	1	1	(A, B, C, D)	871	4.52			872	875	0.4	0.1	0.337	A	
			1	1		801	4.52			800	799	0.1	0.0	0.106	A
			2	1		800				800	799	0.0	0.0	0.000	A
C	Entry	1	1	A, D	655		942	0.696	815	880	72.1	16.8	157.398	F	
			2	A, B, C	667		942	0.708	829	879	72.2	16.5	156.991	F	
	Exit	1	1		795				795	804	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	601		705	0.852	606	583	3.6	3.0	20.994	C	
			2	C, D	234		705	0.332	235	229	0.8	0.6	10.715	B	
	Exit	1	1	(A, B, C, D)	724	4.52			835	809	48.6	25.5	143.924	F	
			2	1		939	4.52			940	949	0.0	0.0	0.133	A
			2	1					940	949	0.0	0.0	0.000	A	

**Lane movements: Main Results for each time segment**

07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	145	36	1098	694	0.209	144	141	0.0	0.3	6.779	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	231	58	1098	696	0.332	231	233	0.0	0.5	8.144	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	38	9	1098	695	0.054	38	37	0.0	0.1	10.238	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	166	42	1098	695	0.239	167	168	0.0	0.4	8.218	A	
				D	122	31	1098	697	0.176	121	114	0.0	0.4	10.756	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	174	43	1152	1460	0.119	173	173	0.0	0.3	5.257	A	
				D	569	142	1152	1459	0.390	570	578	0.0	0.8	5.227	A	
			2	A	119	30	1152	1459	0.081	119	118	0.0	0.1	2.804	A	
				B	2	0.51	479	608	0.003	2	2	0.0	0.0	2.365	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	119	30	-	-	-	119	119	0.0	0.0	0.343	A
					B	2	0.51	-	-	-	2	2	0.0	0.0	0.196	A
					C	174	44	-	-	-	174	175	0.0	0.0	0.365	A
					D	570	142	-	-	-	569	581	0.0	0.1	0.356	A
C	Entry	1	1	A	477	119	1167	934	0.511	475	467	0.0	1.2	8.015	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	182	46	1167	937	0.195	182	182	0.0	0.7	9.725	A	
			2	A	456	114	1167	938	0.487	457	457	0.0	1.1	8.118	A	
				B	188	47	1167	937	0.201	188	184	0.0	0.5	9.944	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	146	37	1055	867	0.169	146	147	0.0	0.4	9.299	A	
				B	364	91	1055	866	0.420	365	361	0.0	0.8	9.029	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	204	51	1055	864	0.236	203	199	0.0	0.4	5.673	A	
				D	1	0.25	235	196	0.005	0.94	1	0.0	0.0	4.198	A	
			2	1	A	146	37	-	-	-	146	149	0.0	0.1	1.824	A
					B	365	91	-	-	-	364	364	0.0	0.2	1.851	A
					C	204	51	-	-	-	204	201	0.0	0.1	1.423	A
					D	1	0.25	-	-	-	1	1	0.0	0.0	2.049	A



## 08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	165	41	1098	659	0.250	164	166	0.3	0.4	8.150	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	280	70	1098	663	0.422	281	281	0.5	0.9	9.313	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	47	12	1098	658	0.072	47	44	0.1	0.2	11.852	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	195	49	1098	663	0.294	198	198	0.4	0.6	9.438	A	
				D	140	35	1098	663	0.211	139	133	0.4	0.5	12.117	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	209	52	1152	1360	0.154	209	212	0.3	0.5	7.527	A	
				D	700	175	1152	1356	0.516	698	692	0.8	1.8	7.508	A	
			2	A	141	35	1152	1357	0.104	140	140	0.1	0.2	3.082	A	
				B	3	0.67	548	659	0.004	3	3	0.0	0.0	3.133	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	141	35	-	-	-	141	141	0.0	0.0	1.206	A
					B	3	0.67	-	-	-	3	3	0.0	0.0	1.552	A
					C	209	52	-	-	-	209	212	0.0	0.1	1.251	A
					D	699	175	-	-	-	700	696	0.1	0.2	1.275	A
C	Entry	1	1	A	548	137	1167	868	0.632	545	545	1.2	3.5	19.032	C	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	224	56	1167	872	0.256	227	222	0.7	1.4	21.999	C	
			2	A	560	140	1167	869	0.644	560	549	1.1	3.5	19.040	C	
				B	225	56	1167	867	0.260	226	222	0.5	1.4	21.404	C	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	175	44	1055	729	0.241	175	175	0.4	0.8	14.572	B	
				B	428	107	1055	725	0.590	428	424	0.8	1.9	14.247	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	239	60	1055	724	0.330	242	239	0.4	0.5	7.864	A	
				D	2	0.45	362	262	0.007	2	2	0.0	0.0	7.249	A	
			2	1	A	176	44	-	-	-	175	177	0.1	0.8	11.860	B
					B	432	108	-	-	-	428	428	0.2	2.0	11.700	B
					C	239	60	-	-	-	239	239	0.1	1.0	11.052	B
					D	2	0.42	-	-	-	2	2	0.0	0.0	15.671	C

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	199	50	1098	635	0.314	201	201	0.4	0.4	9.082	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	360	90	1098	633	0.568	360	362	0.9	1.4	12.829	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	54	14	1098	634	0.085	54	54	0.2	0.3	16.952	C		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	231	58	1098	635	0.364	231	225	0.6	0.9	13.337	B		
				D	168	42	1098	633	0.266	166	165	0.5	1.0	17.413	C		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	252	63	1152	1229	0.205	253	247	0.5	1.0	12.566	B		
				D	817	204	1152	1234	0.662	816	817	1.8	3.2	12.579	B		
			2	A	168	42	1152	1228	0.137	168	169	0.2	0.2	3.575	A		
				B	4	0.92	645	709	0.005	4	3	0.0	0.0	3.684	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	171	43	-	-	-	168	169	0.0	0.9	11.501	B	
					B	4	0.89	-	-	-	4	3	0.0	0.0	13.024	B	
					C	258	65	-	-	-	252	250	0.1	1.6	12.024	B	
					D	828	207	-	-	-	817	823	0.2	4.4	12.015	B	
C	Entry	1	1	A	670	168	1167	779	0.860	559	564	3.5	33.5	121.128	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	274	68	1167	778	0.352	224	224	1.4	13.7	123.839	F		
			2	A	702	176	1167	777	0.904	582	572	3.5	34.2	121.847	F		
				B	263	66	1167	781	0.337	222	223	1.4	12.9	122.272	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	190	47	1055	683	0.278	191	188	0.8	1.0	19.961	C		
				B	471	118	1055	685	0.688	472	462	1.9	2.5	19.218	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	274	68	1055	688	0.398	272	266	0.5	0.9	10.315	B		
				D	3	0.63	490	324	0.008	2	2	0.0	0.0	8.673	A		
			2	1	A	215	54	-	-	-	190	189	0.8	7.5	82.331	F	
					B	520	130	-	-	-	471	465	2.0	17.3	82.192	F	
					C	307	77	-	-	-	274	267	1.0	10.0	80.057	F	
					D	3	0.65	-	-	-	3	2	0.0	0.1	87.800	F	

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	205	51	1098	627	0.328	203	202	0.4	0.7	9.206	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	369	92	1098	626	0.590	365	366	1.4	1.8	13.904	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	53	13	1098	634	0.084	53	55	0.3	0.2	18.778	C		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	228	57	1098	629	0.362	227	229	0.9	1.0	14.292	B		
				D	166	42	1098	628	0.265	165	165	1.0	1.0	18.620	C		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	265	66	1152	1233	0.215	266	259	1.0	0.9	13.961	B		
				D	848	212	1152	1231	0.689	852	844	3.2	3.1	13.887	B		
			2	A	169	42	1152	1233	0.137	170	171	0.2	0.2	3.678	A		
				B	3	0.87	562	600	0.006	3	3	0.0	0.0	3.171	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	170	42	-	-	-	169	171	0.9	1.0	20.215	C	
					B	4	0.89	-	-	-	3	3	0.0	0.0	16.743	C	
					C	266	66	-	-	-	265	259	1.6	1.5	20.328	C	
					D	841	210	-	-	-	848	844	4.4	4.8	20.599	C	
C	Entry	1	1	A	680	170	1167	783	0.869	544	554	33.5	64.5	313.298	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	273	68	1167	780	0.350	221	224	13.7	26.1	317.070	F		
			2	A	671	168	1167	784	0.856	553	558	34.2	63.6	313.154	F		
				B	285	71	1167	784	0.363	214	216	12.9	27.0	317.710	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	203	51	1055	719	0.282	203	197	1.0	1.2	19.881	C		
				B	494	123	1055	717	0.689	495	486	2.5	2.5	19.508	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	279	70	1055	717	0.389	278	272	0.9	0.9	9.959	A		
				D	2	0.47	394	265	0.007	2	2	0.0	0.0	9.905	A		
			2	1	A	215	54	-	-	-	203	197	7.5	11.9	186.140	F	
					B	532	133	-	-	-	494	486	17.3	30.1	186.146	F	
					C	304	76	-	-	-	279	272	10.0	16.8	184.246	F	
					D	2	0.51	-	-	-	2	2	0.1	0.1	185.777	F	

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	162	41	1098	641	0.253	163	168	0.7	0.4	8.553	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	283	71	1098	638	0.443	283	289	1.8	0.9	11.328	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	42	11	1098	644	0.066	43	44	0.2	0.1	13.831	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	197	49	1098	639	0.309	197	201	1.0	0.6	11.382	B		
				D	129	32	1098	637	0.202	132	136	1.0	0.5	14.332	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	212	53	1152	1340	0.158	211	218	0.9	0.5	9.379	A		
				D	696	174	1152	1345	0.518	697	715	3.1	1.6	9.315	A		
			2	A	144	36	1152	1347	0.107	145	148	0.2	0.1	3.369	A		
				B	3	0.78	590	672	0.005	3	3	0.0	0.0	3.240	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	144	36	-	-	-	144	148	1.0	0.0	4.898	A	
					B	3	0.74	-	-	-	3	3	0.0	0.0	4.581	A	
					C	212	53	-	-	-	212	216	1.5	0.1	5.377	A	
					D	696	174	-	-	-	696	709	4.8	0.3	5.300	A	
C	Entry	1	1	A	553	138	1167	892	0.620	619	613	64.5	51.3	341.299	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	219	55	1167	891	0.246	248	243	26.1	20.8	345.395	F		
			2	A	560	140	1167	888	0.631	624	606	63.6	51.8	345.272	F		
				B	212	53	1167	888	0.239	240	244	27.0	20.4	348.526	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	178	44	1055	648	0.275	178	186	1.2	1.1	21.049	C		
				B	443	111	1055	645	0.687	443	454	2.5	2.5	20.597	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	255	64	1055	643	0.397	255	256	0.9	0.8	10.416	B		
				D	2	0.43	312	200	0.009	2	2	0.0	0.0	10.126	B		
			2	1	A	175	44	-	-	-	178	186	11.9	10.2	217.474	F	
					B	439	110	-	-	-	443	454	30.1	24.8	214.197	F	
					C	243	61	-	-	-	255	256	16.8	13.4	211.364	F	
					D	2	0.42	-	-	-	2	2	0.1	0.1	183.235	F	

09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	139	35	1098	656	0.212	140	139	0.4	0.3	7.856	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	221	55	1098	656	0.336	222	229	0.9	0.5	9.001	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	38	9	1098	658	0.057	38	37	0.1	0.1	10.935	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	163	41	1098	657	0.248	163	170	0.6	0.4	8.818	A		
				D	113	28	1098	659	0.171	112	112	0.5	0.3	10.705	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	176	44	1152	1442	0.122	177	178	0.5	0.3	5.581	A		
				D	581	145	1152	1441	0.403	584	583	1.6	0.9	5.742	A		
			2	A	113	28	1152	1450	0.078	113	116	0.1	0.0	2.840	A		
				B	2	0.52	437	549	0.004	2	2	0.0	0.0	2.718	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	112	28	-	-	-	113	116	0.0	0.0	0.280	A	
					B	2	0.52	-	-	-	2	2	0.0	0.0	0.345	A	
					C	176	44	-	-	-	176	177	0.1	0.0	0.348	A	
					D	581	145	-	-	-	581	580	0.3	0.1	0.345	A	
C	Entry	1	1	A	460	115	1167	939	0.490	573	627	51.3	11.6	156.370	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	195	49	1167	941	0.207	242	252	20.8	5.2	159.959	F		
			2	A	483	121	1167	940	0.513	599	633	51.8	12.0	156.093	F		
				B	185	46	1167	942	0.196	230	246	20.4	4.5	159.308	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	177	44	1055	705	0.251	178	172	1.1	0.8	21.415	C		
				B	424	106	1055	703	0.603	429	412	2.5	2.2	20.829	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	233	58	1055	703	0.331	233	227	0.8	0.6	10.703	B		
				D	1	0.31	356	208	0.006	1	2	0.0	0.0	12.346	B		
			2	1	A	151	38	-	-	-	177	170	10.2	5.2	144.021	F	
					B	364	91	-	-	-	424	410	24.8	12.9	145.887	F	
					C	208	52	-	-	-	233	226	13.4	7.3	140.020	F	
					D	1	0.27	-	-	-	1	2	0.1	0.1	162.362	F	

Junctions 10
ARCADY 10 - Roundabout Module
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Filename: JUNCTION 1 - Lane Sim PM Validated.j10

Path: J:\48559 Crawley Transport Study\Transport\Working Documents\Junction Modelling\Junction Models\JUNCTION 1

Report generation date: 26/04/2021 16:43:11

- »Base 2015, PM
- »2035 Ref, PM
- »2035 Scenario 2, PM
- »2035 Scenario 3, PM

**Summary of junction performance**

PM					
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
[Lane Simulation] - Base 2015					
Arm A	D1	52.4	98.15		F
Arm B		18.2	53.78		F
Arm C		4.1	12.46		B
Arm D		6.6	25.14		D
[Lane Simulation] - 2035 Ref					
Arm A	D3	215.7	478.67		F
Arm B		28.9	86.93		F
Arm C		7.8	22.77		C
Arm D		10.1	35.54		E
[Lane Simulation] - 2035 Scenario 2					
Arm A	D5	240.4	541.13		F
Arm B		37.8	103.08		F
Arm C		26.5	60.34		F
Arm D		16.5	54.15		F
[Lane Simulation] - 2035 Scenario 3					
Arm A	D7	375.0	802.37		F
Arm B		80.5	212.45		F
Arm C		33.1	76.88		F
Arm D		11.8	40.54		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.

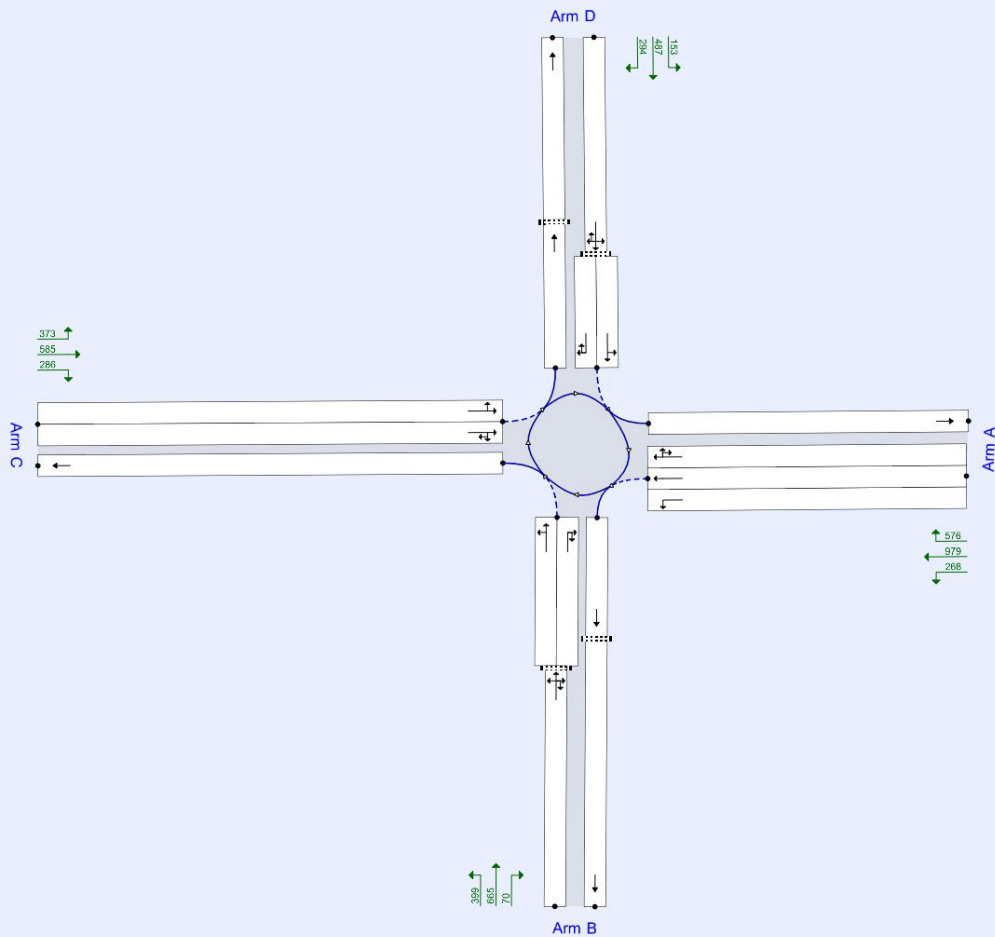
## File summary

### File Description

<b>Title</b>	Ifield Roundabout - Base
<b>Location</b>	Crewley
<b>Site number</b>	1
<b>Date</b>	31/03/2021
<b>Version</b>	V1
<b>Status</b>	(new file)
<b>Identifier</b>	001
<b>Client</b>	
<b>Jobnumber</b>	48559
<b>Enumerator</b>	CORP\rycox
<b>Description</b>	

## Units

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



Flows show original traffic demand (PCU/hr).  
Lane simulation visualisation time: 16:45:00

The junction diagram reflects the last run of Junctions.

### Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

### Lane Simulation options

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	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	-1	3	1	60	✓			210524198	139	143.58

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	PM	ONE HOUR	16:45	18:15	15	✓
D3	2035 Ref	PM	ONE HOUR	16:45	18:15	15	✓
D5	2035 Scenario 2	PM	ONE HOUR	16:45	18:15	15	✓
D7	2035 Scenario 3	PM	ONE HOUR	16:45	18:15	15	✓

### Analysis Set Details

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



# Base 2015, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	53.63	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	53.63	F

## Arms

### Arms

Arm	Name	Description	No give-way line
A	A23 Crawley Avenue East		
B	Ifield Avenue South		
C	A23 Crawley Avenue West		
D	Ifield Avenue North		

### 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
A	10.68	11.23	1.8	18.4	32.0	31.0		
B	3.50	7.96	64.0	60.0	32.0	21.0		
C	7.20	8.43	3.5	35.8	32.0	39.0		
D	3.50	8.38	19.9	999.0	32.0	10.0		

### Pelican/Puffin Crossings

Arm	Space between crossing and junc. entry (Signalised) (PCU)	Vehicles queueing on exit (Signalised) (PCU)	Amber time preceding red (s)	Amber time regarded as green (s)	Time from traffic red start to green man start (s)	Time period green man shown (s)	Clearance Period (s)	Traffic minimum green (s)
B	12.00	5.00	3.00	2.90	1.00	6.00	6.00	7.00
D	12.00	6.00	3.00	2.90	1.00	6.00	6.00	7.00

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A	0.978	3294
B	0.799	2304
C	0.782	2334
D	0.776	2111

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

### Arm Capacity Adjustments

Arm	Type	Reason	Percentage capacity adjustment (%)
A	Percentage		82.00
B	Percentage		195.00
D	Percentage		125.00

### Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
A	Evenly split	10.00
B	Evenly split	10.00
C	Evenly split	10.00
D	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
A	Entry	1	1	B		Infinity			0	99999	
			2	C		Infinity			0	99999	
			3	A, C, D		Infinity			0	99999	
	Exit	1	1			Infinity					
B	Entry	1	1	C, D	✓	6.00			0	99999	
			2	A, B	✓	6.00			0	99999	
	Exit	1	1	(A, B, C, D)		Infinity					
			2	1		✓	5.00				
C	Entry	1	1	A, D		Infinity			0	99999	
			2	A, B, C		Infinity			0	99999	
	Exit	1	1			Infinity					
			2	1			Infinity				
D	Entry	1	1	A, B	✓	4.50			0	99999	
			2	C, D	✓	4.50			0	99999	
	Exit	1	1	(A, B, C, D)		Infinity					
			2	1		✓	6.00				
Exit	2	1	1			Infinity					
			2	1			Infinity				

### Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
A	Entry	1	1	0.326	1098
			2	0.326	1098
			3	0.326	1098
B	Entry	1	1	0.399	1152
			2	0.399	1152
C	Entry	1	1	0.391	1167
			2	0.391	1167
D	Entry	1	1	0.388	1055
			2	0.388	1055

### Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			A	B	C	D
A	1	1		✓		
		2			✓	
		3	✓		✓	✓
B	1	1			✓	✓
		2	✓	✓		
C	1	1	✓			✓
		2	✓	✓	✓	
D	1	1	✓	✓		
		2			✓	✓
	2	1	✓	✓	✓	✓

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1500	100.000
B		ONE HOUR	✓	986	100.000
C		ONE HOUR	✓	1038	100.000
D		ONE HOUR	✓	836	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

From	To			
	A	B	C	D
A	69	268	917	246
B	70	1	399	516
C	585	245	2	206
D	153	431	252	0

## Vehicle Mix

### Heavy Vehicle Percentages

	To				
	A	B	C	D	
From	A	3	2	3	4
	B	0	0	3	3
	C	11	4	0	7
	D	5	4	1	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	98.15	52.4	F	1377	2066
B	53.78	18.2	F	894	1342
C	12.46	4.1	B	961	1442
D	25.14	6.6	D	767	1151

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1121	280	656		1121	1114	656	0.0	3.1	9.335	A
B	732	183	1087	4.52	730	731	716	0.0	1.4	5.159	A
C	778	194	625		780	775	1170	0.0	1.5	6.059	A
D	633	158	718	4.52	632	631	721	0.0	1.2	6.519	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1341	335	792		1334	1334	798	3.1	6.2	15.008	C
B	878	220	1306	5.39	888	880	857	1.4	2.0	8.351	A
C	951	238	762		952	937	1409	1.5	2.1	7.490	A
D	761	190	874	5.39	762	755	870	1.2	2.1	8.923	A

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1657	414	959		1567	1545	954	6.2	32.1	48.889	E
B	1068	267	1519	6.61	1045	1031	1039	2.0	12.8	31.405	D
C	1147	287	902		1147	1142	1645	2.1	3.8	11.656	B
D	919	230	1050	6.61	905	893	1026	2.1	6.6	20.231	C

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1665	416	967		1570	1565	948	32.1	52.4	98.153	F
B	1080	270	1526	6.61	1061	1054	1052	12.8	18.2	53.776	F
C	1155	289	923		1158	1148	1652	3.8	4.1	12.460	B
D	915	229	1061	6.61	914	920	1050	6.6	6.2	25.135	D

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1345	336	780		1431	1498	797	52.4	14.9	67.429	F
B	863	216	1406	5.39	892	939	836	18.2	3.9	31.331	D
C	946	237	774		940	944	1485	4.1	2.4	8.473	A
D	744	186	871	5.39	744	764	888	6.2	2.2	11.269	B

**18:00 - 18:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1135	284	647		1136	1177	667	14.9	3.4	13.310	B
B	745	186	1106	4.52	745	753	714	3.9	1.2	6.751	A
C	789	197	616		792	786	1194	2.4	1.4	6.200	A
D	632	158	730	4.52	631	636	728	2.2	1.1	7.292	A

## Lane Results

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

**Lanes: Main Results for each time segment**
**16:45 - 17:00**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	200		725	0.276	200	200	0.0	0.5	6.968	A
			2	C	414		725	0.571	414	411	0.0	1.1	9.186	A
			3	A, C, D	507		725	0.699	507	503	0.0	1.5	10.412	B
	Exit	1	1		656				656	651	0.0	0.0	0.000	A
B	Entry	1	1	C, D	678		1400	0.485	676	679	0.0	1.3	5.027	A
			2	A, B	54		1400	0.039	54	52	0.0	0.0	2.852	A
	Exit	1	1	(A, B, C, D)	732	4.52			732	737	0.0	0.0	0.290	A
			2	1		716	4.52			716	712	0.0	0.0	0.138
C	Entry	1	1	A, D	379		923	0.410	381	376	0.0	0.6	5.896	A
			2	A, B, C	399		923	0.432	399	399	0.0	0.8	6.210	A
	Exit	1	1		1170				1170	1172	0.0	0.0	0.000	A
			2	1		721	4.52			721	716	0.0	0.0	0.127
D	Entry	1	1	A, B	442		971	0.456	440	438	0.0	0.9	6.544	A
			2	C, D	191		971	0.197	192	193	0.0	0.2	4.605	A
	Exit	1	1	(A, B, C, D)	633	4.52			634	635	0.0	0.1	0.573	A
			2	1		721	4.52			721	716	0.0	0.0	0.000

## 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	240		689	0.349	240	240	0.5	0.5	8.273	A
			2	C	516		689	0.750	513	514	1.1	2.4	15.186	C
			3	A, C, D	585		689	0.849	581	580	1.5	3.4	17.646	C
	Exit	1	1		798				798	792	0.0	0.0	0.000	A
B	Entry	1	1	C, D	815		1229	0.663	822	815	1.3	1.7	7.903	A
			2	A, B	66		1229	0.054	66	65	0.0	0.1	3.086	A
	Exit	1	1	(A, B, C, D)	878	5.39			881	882	0.0	0.2	0.806	A
			1		858	5.39			857	849	0.0	0.0	0.108	A
			2		857				857	849	0.0	0.0	0.000	A
C	Entry	1	1	A, D	466		869	0.536	466	457	0.6	1.1	7.420	A
			2	A, B, C	485		869	0.558	485	481	0.8	1.1	7.555	A
	Exit	1	1		1409				1409	1401	0.0	0.0	0.000	A
D	Entry	1	1	A, B	526		895	0.588	527	522	0.9	1.3	8.577	A
			2	C, D	236		895	0.264	235	233	0.2	0.5	5.376	A
		2	1	(A, B, C, D)	761	5.39			763	758	0.1	0.3	1.354	A
	Exit	1	1		870	5.39			870	865	0.0	0.0	0.112	A
			2	1		870				870	865	0.0	0.0	0.000

## 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	295		644	0.458	294	292	0.5	0.8	10.195	B
			2	C	673		644	1.046	628	618	2.4	15.2	55.174	F
			3	A, C, D	688		644	1.069	645	635	3.4	16.0	59.561	F
	Exit	1	1		954				954	945	0.0	0.0	0.000	A
B	Entry	1	1	C, D	969		1064	0.911	968	958	1.7	4.6	14.752	B
			2	A, B	76		1064	0.071	77	73	0.1	0.1	3.465	A
	Exit	1	1	(A, B, C, D)	1068	6.61			1045	1043	0.2	8.1	17.288	C
			1		1039	6.61			1039	1024	0.0	0.0	0.168	A
			2		1039				1039	1024	0.0	0.0	0.000	A
C	Entry	1	1	A, D	564		815	0.693	564	561	1.1	1.9	11.537	B
			2	A, B, C	582		815	0.715	583	581	1.1	1.9	11.769	B
	Exit	1	1		1645				1645	1627	0.0	0.0	0.000	A
D	Entry	1	1	A, B	642		810	0.792	640	624	1.3	2.5	12.453	B
			2	C, D	269		810	0.332	266	269	0.5	0.7	6.794	A
		2	1	(A, B, C, D)	919	6.61			910	898	0.3	3.4	9.470	A
	Exit	1	1		1026	6.61			1026	1016	0.0	0.1	0.223	A
			2	1		1026				1026	1016	0.0	0.0	0.000

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	290		642	0.452	292	292	0.8	0.8	10.411	B
			2	C	678		642	1.056	629	629	15.2	25.2	116.132	F
			3	A, C, D	697		642	1.086	649	644	16.0	26.4	118.363	F
	Exit	1	1		948				948	954	0.0	0.0	0.000	A
B	Entry	1	1	C, D	984		1058	0.930	986	978	4.6	5.0	17.569	C
			2	A, B	74		1058	0.070	75	76	0.1	0.0	3.724	A
	Exit	2	1	(A, B, C, D)	1080	6.61			1059	1056	8.1	13.2	37.188	E
			1	1		1052	6.61			1052	1045	0.0	0.0	0.147
C	Entry	1	1	A, D	568		806	0.704	569	565	1.9	1.9	12.289	B
			2	A, B, C	587		806	0.729	588	584	1.9	2.2	12.622	B
	Exit	1	1		1652				1652	1659	0.0	0.0	0.000	A
D	Entry	1	1	A, B	638		805	0.793	637	643	2.5	2.5	13.610	B
			2	C, D	278		805	0.345	276	278	0.7	0.5	7.163	A
	Exit	2	1	(A, B, C, D)	915	6.61			916	920	3.4	3.2	13.503	B
			1	1		1050	6.61			1050	1031	0.1	0.0	0.180
			2	1					1050	1031	0.0	0.0	0.000	A

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	234		692	0.338	234	241	0.8	0.5	8.229	A
			2	C	532		692	0.768	573	614	25.2	6.8	79.189	F
			3	A, C, D	579		692	0.837	624	643	26.4	7.6	81.561	F
	Exit	1	1		797				797	810	0.0	0.0	0.000	A
B	Entry	1	1	C, D	818		1152	0.711	828	872	5.0	2.5	13.742	B
			2	A, B	64		1152	0.055	64	67	0.0	0.1	3.674	A
	Exit	2	1	(A, B, C, D)	863	5.39			882	929	13.2	1.4	18.681	C
			1	1		837	5.39			836	857	0.0	0.0	0.112
C	Entry	1	1	A, D	465		865	0.538	464	463	1.9	1.0	8.297	A
			2	A, B, C	481		865	0.556	475	481	2.2	1.4	8.639	A
	Exit	1	1		1485				1485	1551	0.0	0.0	0.000	A
D	Entry	1	1	A, B	517		897	0.577	517	533	2.5	1.4	9.394	A
			2	C, D	228		897	0.254	227	231	0.5	0.3	5.710	A
	Exit	2	1	(A, B, C, D)	744	5.39			745	759	3.2	0.4	3.109	A
			1	1		888	5.39			888	928	0.0	0.0	0.162
			2	1					888	928	0.0	0.0	0.000	A

## 18:00 - 18:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	205		727	0.282	204	204	0.5	0.5	6.982	A
			2	C	426		727	0.585	426	450	6.8	1.2	13.958	B
			3	A, C, D	503		727	0.692	506	522	7.6	1.6	15.381	C
	Exit	1	1		667				667	664	0.0	0.0	0.000	A
B	Entry	1	1	C, D	691		1385	0.499	689	699	2.5	1.1	6.487	A
			2	A, B	55		1385	0.040	55	54	0.1	0.0	2.917	A
	Exit	1	1	(A, B, C, D)	745	4.52			746	747	1.4	0.0	0.624	A
			1		714	4.52			714	718	0.0	0.0	0.088	A
			2		714				714	718	0.0	0.0	0.000	A
C	Entry	1	1	A, D	382		926	0.413	384	383	1.0	0.7	6.172	A
			2	A, B, C	407		926	0.439	408	403	1.4	0.7	6.226	A
	Exit	1	1		1194				1194	1226	0.0	0.0	0.000	A
D	Entry	1	1	A, B	436		965	0.452	435	442	1.4	0.8	7.075	A
			2	C, D	196		965	0.203	196	194	0.3	0.3	4.857	A
		2	1	(A, B, C, D)	632	4.52			633	633	0.4	0.0	0.925	A
	Exit	1	1		728	4.52			728	743	0.0	0.0	0.085	A
			2	1		728				728	743	0.0	0.0	0.000



**Lane movements: Main Results for each time segment**

16:45 - 17:00

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	200	50	1098	724	0.276	200	200	0.0	0.5	6.968	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	414	103	1098	724	0.572	414	411	0.0	1.1	9.186	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	54	14	1098	730	0.074	54	51	0.0	0.2	12.318	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	269	67	1098	724	0.371	269	272	0.0	0.8	8.824	A	
				D	184	46	1098	725	0.254	183	181	0.0	0.6	12.282	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	295	74	1152	1406	0.210	293	295	0.0	0.6	5.068	A	
				D	384	96	1152	1404	0.273	383	384	0.0	0.7	4.996	A	
			2	A	54	13	1152	1408	0.038	54	52	0.0	0.0	2.852	A	
				B	0.35	0.09	157	199	0.002	0.35	0.60	0.0	0.0	2.876	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	54	13	-	-	-	54	52	0.0	0.0	0.237	A
					B	0.35	0.09	-	-	-	0.35	0.60	0.0	0.0	0.000	A
					C	295	74	-	-	-	295	298	0.0	0.0	0.287	A
					D	384	96	-	-	-	384	387	0.0	0.0	0.300	A
C	Entry	1	1	A	225	56	1167	922	0.244	226	224	0.0	0.3	5.404	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	154	39	1167	921	0.167	155	152	0.0	0.3	6.597	A	
			2	A	209	52	1167	921	0.227	211	212	0.0	0.3	5.479	A	
				B	188	47	1167	923	0.203	186	185	0.0	0.5	6.991	A	
				C	2	0.54	386	307	0.007	2	2	0.0	0.0	6.154	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	112	28	1055	971	0.115	111	113	0.0	0.2	6.562	A	
				B	331	83	1055	971	0.341	329	326	0.0	0.7	6.538	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	191	48	1055	970	0.197	192	193	0.0	0.2	4.605	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	112	28	-	-	-	112	113	0.0	0.0	0.630	A
					B	331	83	-	-	-	331	329	0.0	0.1	0.623	A
					C	191	48	-	-	-	191	193	0.0	0.0	0.457	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:00 - 17:15

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	240	60	1098	688	0.349	240	240	0.5	0.5	8.273	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	516	129	1098	688	0.751	513	514	1.1	2.4	15.186	C	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	64	16	1098	687	0.094	64	64	0.2	0.4	20.146	C	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	300	75	1098	687	0.436	295	297	0.8	1.7	15.030	C	
				D	221	55	1098	687	0.321	222	219	0.6	1.3	20.484	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	360	90	1152	1227	0.293	364	355	0.6	0.7	7.931	A	
				D	455	114	1152	1231	0.370	458	460	0.7	1.0	7.882	A	
			2	A	65	16	1152	1235	0.053	65	64	0.0	0.1	3.086	A	
				B	0.78	0.19	265	288	0.003	0.78	1	0.0	0.0	3.087	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	65	16	-	-	-	65	64	0.0	0.0	0.619	A
					B	0.78	0.19	-	-	-	0.78	1	0.0	0.0	0.306	A
					C	358	90	-	-	-	360	356	0.0	0.1	0.838	A
					D	454	114	-	-	-	455	461	0.0	0.1	0.810	A
C	Entry	1	1	A	277	69	1167	874	0.317	277	271	0.3	0.6	6.727	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	189	47	1167	873	0.216	189	186	0.3	0.5	8.392	A	
			2	A	256	64	1167	872	0.294	255	256	0.3	0.6	6.722	A	
				B	226	56	1167	871	0.259	228	223	0.5	0.4	8.446	A	
				C	2	0.58	495	375	0.006	3	2	0.0	0.0	8.882	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	137	34	1055	896	0.153	138	138	0.2	0.3	8.436	A	
				B	389	97	1055	895	0.435	389	385	0.7	1.1	8.627	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	236	59	1055	897	0.263	235	233	0.2	0.5	5.376	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	137	34	-	-	-	137	138	0.0	0.1	1.429	A
					B	389	97	-	-	-	389	386	0.1	0.1	1.419	A
					C	236	59	-	-	-	236	234	0.0	0.1	1.209	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:15 - 17:30

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	295	74	1098	648	0.456	294	292	0.5	0.8	10.195	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	673	168	1098	643	1.047	628	618	2.4	15.2	55.174	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	70	17	1098	643	0.108	66	69	0.4	1.7	62.491	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	343	86	1098	645	0.531	320	315	1.7	7.8	55.978	F	
				D	276	69	1098	642	0.430	260	251	1.3	6.5	63.271	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	428	107	1152	1062	0.403	430	422	0.7	1.8	14.714	B	
				D	541	135	1152	1065	0.508	538	537	1.0	2.8	14.782	B	
			2	A	75	19	1152	1077	0.070	76	72	0.1	0.1	3.479	A	
				B	0.69	0.17	207	201	0.003	0.78	0.78	0.0	0.0	2.145	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	77	19	-	-	-	75	72	0.0	0.6	16.618	C	
				B	0.69	0.17	-	-	-	0.69	0.78	0.0	0.0	16.563	C	
				C	442	110	-	-	-	428	426	0.1	3.5	17.048	C	
				D	549	137	-	-	-	541	544	0.1	4.1	17.569	C	
C	Entry	1	1	A	338	84	1167	819	0.413	336	332	0.6	1.1	10.432	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	226	57	1167	813	0.279	228	229	0.5	0.8	13.073	B	
			2	A	307	77	1167	815	0.377	307	310	0.6	0.9	10.594	B	
				B	273	68	1167	819	0.333	273	269	0.4	1.0	13.024	B	
				C	2	0.58	554	393	0.006	2	3	0.0	0.0	12.430	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	167	42	1055	811	0.206	168	162	0.3	0.6	12.532	B	
				B	474	119	1055	812	0.584	471	462	1.1	1.9	12.425	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	269	67	1055	809	0.332	266	269	0.5	0.7	6.794	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	170	42	-	-	-	167	163	0.1	0.6	9.533	A
					B	478	119	-	-	-	474	465	0.1	1.8	9.870	A
					C	271	68	-	-	-	269	270	0.1	1.0	8.768	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:30 - 17:45

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	290	73	1098	638	0.455	292	292	0.8	0.8	10.411	B		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	678	169	1098	641	1.057	629	629	15.2	25.2	116.132	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	75	19	1098	650	0.115	70	69	1.7	2.8	120.708	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	344	86	1098	639	0.539	316	320	7.8	13.1	115.619	F		
				D	278	69	1098	643	0.432	263	254	6.5	10.5	121.209	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	431	108	1152	1061	0.406	429	430	1.8	2.2	17.589	C		
				D	554	138	1152	1059	0.523	556	549	2.8	2.8	17.553	C		
			2	A	73	18	1152	1055	0.069	74	75	0.1	0.0	3.732	A		
				B	1	0.30	340	316	0.004	1	1	0.0	0.0	3.256	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	73	18	-	-	-	73	75	0.6	0.8	34.813	D	
					B	1	0.30	-	-	-	1	1	0.0	0.0	28.585	D	
					C	438	110	-	-	-	431	431	3.5	5.4	36.894	E	
					D	567	142	-	-	-	554	549	4.1	7.0	37.771	E	
C	Entry	1	1	A	337	84	1167	810	0.416	338	337	1.1	1.0	11.117	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	231	58	1167	803	0.288	231	228	0.8	0.9	13.964	B		
			2	A	302	75	1167	807	0.374	303	308	0.9	1.0	11.238	B		
				B	284	71	1167	802	0.354	284	274	1.0	1.2	14.070	B		
				C	1	0.35	428	302	0.005	1	2	0.0	0.0	13.333	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	167	42	1055	803	0.208	163	165	0.6	0.8	13.591	B		
				B	471	118	1055	806	0.585	474	478	1.9	1.7	13.616	B		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	278	69	1055	806	0.345	276	278	0.7	0.5	7.163	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	166	41	-	-	-	167	166	0.6	0.5	13.534	B	
					B	470	117	-	-	-	471	477	1.8	1.7	14.071	B	
					C	279	70	-	-	-	278	277	1.0	0.9	12.532	B	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 17:45 - 18:00

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	234	59	1098	690	0.339	234	241	0.8	0.5	8.229	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	532	133	1098	692	0.768	573	614	25.2	6.8	79.189	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	62	15	1098	697	0.088	69	69	2.8	0.9	86.945	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	296	74	1098	693	0.428	312	322	13.1	3.6	77.334	F		
				D	221	55	1098	692	0.320	244	252	10.5	3.0	85.489	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	367	92	1152	1152	0.318	372	383	2.2	1.0	13.845	B		
				D	452	113	1152	1154	0.392	456	490	2.8	1.4	13.662	B		
			2	A	63	16	1152	1146	0.055	63	66	0.0	0.1	3.672	A		
				B	1	0.28	307	291	0.004	1	1	0.0	0.0	3.763	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	62	15	-	-	-	63	66	0.8	0.1	17.439	C	
					B	1	0.28	-	-	-	1	1	0.0	0.0	15.565	C	
					C	360	90	-	-	-	367	378	5.4	0.7	19.118	C	
					D	441	110	-	-	-	452	484	7.0	0.7	18.523	C	
C	Entry	1	1	A	277	69	1167	864	0.320	276	276	1.0	0.6	7.551	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	188	47	1167	863	0.218	188	187	0.9	0.4	9.363	A		
			2	A	253	63	1167	863	0.293	252	255	1.0	0.5	7.675	A		
				B	226	57	1167	864	0.262	222	224	1.2	0.9	9.650	A		
				C	2	0.39	428	308	0.005	2	2	0.0	0.0	10.767	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	137	34	1055	898	0.153	137	143	0.8	0.4	9.426	A		
				B	380	95	1055	896	0.424	380	391	1.7	1.0	9.383	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	228	57	1055	896	0.254	227	231	0.5	0.3	5.710	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	137	34	-	-	-	137	141	0.5	0.1	3.160	A	
					B	380	95	-	-	-	380	388	1.7	0.2	3.293	A	
					C	228	57	-	-	-	228	230	0.9	0.1	2.775	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 18:00 - 18:15

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	205	51	1098	728	0.282	204	204	0.5	0.5	6.982	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	426	106	1098	728	0.585	426	450	6.8	1.2	13.958	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	49	12	1098	728	0.067	49	52	0.9	0.2	16.837	C	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	276	69	1098	727	0.379	276	280	3.6	0.7	13.600	B	
				D	179	45	1098	727	0.246	181	190	3.0	0.7	17.658	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	293	73	1152	1387	0.212	294	300	1.0	0.4	6.574	A	
				D	397	99	1152	1389	0.286	395	399	1.4	0.8	6.422	A	
			2	A	54	14	1152	1384	0.039	54	53	0.1	0.0	2.905	A	
				B	1	0.30	224	262	0.005	1	0.92	0.0	0.0	3.574	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	54	14	-	-	-	54	53	0.1	0.0	0.601	A
					B	1	0.30	-	-	-	1	0.92	0.0	0.0	0.000	A
					C	293	73	-	-	-	293	297	0.7	0.0	0.666	A
					D	397	99	-	-	-	397	396	0.7	0.0	0.598	A
C	Entry	1	1	A	231	58	1167	928	0.249	232	229	0.6	0.3	5.602	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	152	38	1167	927	0.163	152	154	0.4	0.3	6.983	A	
			2	A	218	55	1167	926	0.236	218	214	0.5	0.3	5.585	A	
				B	187	47	1167	929	0.201	188	187	0.9	0.4	6.914	A	
				C	2	0.45	403	318	0.006	2	2	0.0	0.0	7.023	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	114	29	1055	966	0.118	114	116	0.4	0.2	6.945	A	
				B	322	81	1055	966	0.334	321	326	1.0	0.6	7.120	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	196	49	1055	965	0.203	196	194	0.3	0.3	4.857	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	114	29	-	-	-	114	115	0.1	0.0	0.982	A
					B	321	80	-	-	-	322	324	0.2	0.0	1.016	A
					C	196	49	-	-	-	196	194	0.1	0.0	0.745	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

# 2035 Ref, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Lane Simulation	Arm A - Lane Simulation	Arm A: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	206.19	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	206.19	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2035 Ref	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1775	100.000
B		ONE HOUR	✓	1026	100.000
C		ONE HOUR	✓	1165	100.000
D		ONE HOUR	✓	878	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	69	268	1029	409
	B	70	1	399	556
	C	597	245	2	321
	D	153	473	252	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	3	2	3	4
	B	0	0	3	3
	C	11	4	0	7
	D	5	4	1	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	478.67	215.7	F	1637	2455
B	86.93	28.9	F	944	1416
C	22.77	7.8	C	1067	1601
D	35.54	10.1	E	806	1209

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1346	337	676		1336	1315	673	0.0	6.3	14.581	B
B	770	192	1307	4.52	769	767	743	0.0	1.6	6.820	A
C	880	220	785		879	873	1267	0.0	1.9	7.320	A
D	665	166	734	4.52	667	656	967	0.0	1.2	7.059	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1610	402	811		1564	1528	791	6.3	24.6	40.915	E
B	919	230	1533	5.39	915	909	880	1.6	5.3	15.248	C
C	1050	263	936		1050	1044	1484	1.9	3.3	10.539	B
D	789	197	871	5.39	779	784	1154	1.2	2.7	9.953	A



**17:15 - 17:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1970	493	1024		1565	1570	962	24.6	119.0	171.144	F
B	1136	284	1520	6.61	1086	1059	1094	5.3	23.4	55.572	F
C	1284	321	1038		1279	1264	1561	3.3	7.3	19.077	C
D	964	241	1056	6.61	966	946	1278	2.7	8.1	26.324	D

**17:30 - 17:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1951	488	1022		1554	1554	955	119.0	215.7	399.853	F
B	1133	283	1522	6.61	1102	1107	1078	23.4	28.9	86.930	F
C	1261	315	1029		1272	1278	1568	7.3	7.8	22.765	C
D	968	242	1049	6.61	964	964	1293	8.1	10.1	35.540	E

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1607	402	796		1625	1600	810	215.7	215.4	478.673	F
B	921	230	1582	5.39	957	986	893	28.9	12.9	64.974	F
C	1051	263	977		1057	1071	1534	7.8	3.3	12.947	B
D	791	198	884	5.39	793	816	1195	10.1	2.3	15.596	C

**18:00 - 18:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1335	334	677		1653	1638	688	215.4	140.5	350.614	F
B	783	196	1614	4.52	796	817	749	12.9	3.8	25.055	D
C	878	219	888		882	880	1498	3.3	1.9	8.546	A
D	662	165	746	4.52	664	667	1060	2.3	1.2	7.550	A

## Lane Results

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

### Lanes: Main Results for each time segment

#### 16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	201		719	0.280	200	200	0.0	0.4	7.087	A
			2	C	527		719	0.733	521	513	0.0	2.5	13.977	B
			3	A, C, D	618		719	0.859	614	601	0.0	3.3	17.602	C
	Exit	1	1		673				673	665	0.0	0.0	0.000	A
B	Entry	1	1	C, D	714		1228	0.581	713	712	0.0	1.4	6.484	A
			2	A, B	56		1228	0.045	55	54	0.0	0.1	2.999	A
		2	1	(A, B, C, D)	770	4.52			769	772	0.0	0.2	0.579	A
	Exit	1	1		743	4.52			743	733	0.0	0.0	0.130	A
		2	1		743				743	733	0.0	0.0	0.000	A
C	Entry	1	1	A, D	456		860	0.530	455	453	0.0	1.0	7.603	A
			2	A, B, C	425		860	0.494	424	420	0.0	0.9	7.017	A
	Exit	1	1		1267				1267	1250	0.0	0.0	0.000	A
D	Entry	1	1	A, B	472		963	0.490	472	464	0.0	0.9	7.043	A
			2	C, D	195		963	0.202	195	192	0.0	0.2	4.776	A
		2	1	(A, B, C, D)	665	4.52			666	660	0.0	0.1	0.689	A
	Exit	1	1		966	4.52			967	961	0.0	0.0	0.207	A
		2	1		967				967	961	0.0	0.0	0.000	A

#### 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	234		683	0.342	236	238	0.4	0.6	8.245	A
			2	C	673		683	0.985	650	630	2.5	11.3	43.455	E
			3	A, C, D	702		683	1.028	679	661	3.3	12.8	49.813	E
	Exit	1	1		791				791	792	0.0	0.0	0.000	A
B	Entry	1	1	C, D	857		1053	0.814	854	846	1.4	3.4	11.736	B
			2	A, B	61		1053	0.058	61	63	0.1	0.1	3.387	A
		2	1	(A, B, C, D)	919	5.39			918	917	0.2	1.7	4.035	A
	Exit	1	1		880	5.39			880	883	0.0	0.0	0.119	A
		2	1		880				880	883	0.0	0.0	0.000	A
C	Entry	1	1	A, D	538		801	0.671	535	536	1.0	1.9	10.935	B
			2	A, B, C	513		801	0.640	514	507	0.9	1.4	10.123	B
	Exit	1	1		1484				1484	1462	0.0	0.0	0.000	A
D	Entry	1	1	A, B	558		897	0.622	552	558	0.9	1.7	9.100	A
			2	C, D	227		897	0.253	226	226	0.2	0.4	5.497	A
		2	1	(A, B, C, D)	789	5.39			785	788	0.1	0.6	1.895	A
	Exit	1	1		1154	5.39			1154	1128	0.0	0.0	0.163	A
2		1		1154				1154	1128	0.0	0.0	0.000	A	

## 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	302		627	0.481	300	294	0.6	1.0	10.928	B
			2	C	835		627	1.333	637	636	11.3	58.0	195.868	F
			3	A, C, D	833		627	1.329	629	639	12.8	60.0	204.631	F
	Exit	1	1		962				962	947	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1011		1063	0.951	1009	985	3.4	5.3	17.732	C
			2	A, B	76		1063	0.072	77	75	0.1	0.1	3.838	A
	Exit	1	1	(A, B, C, D)	1136	6.61			1087	1067	1.7	18.1	38.705	E
			2	1		1095	6.61			1094	1074	0.0	0.0	0.197
C	Entry	1	1	A, D	652		761	0.857	647	642	1.9	3.9	19.618	C
			2	A, B, C	632		761	0.830	632	622	1.4	3.4	18.525	C
	Exit	1	1		1561				1561	1549	0.0	0.0	0.000	A
			2	1		1094				1094	1074	0.0	0.0	0.000
D	Entry	1	1	A, B	689		807	0.853	691	677	1.7	2.6	13.437	B
			2	C, D	276		807	0.342	275	269	0.4	0.6	7.028	A
	Exit	1	1	(A, B, C, D)	964	6.61			965	950	0.6	4.9	14.688	B
			2	1		1278	6.61			1278	1268	0.0	0.2	0.279
			2	1					1278	1268	0.0	0.0	0.000	A

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	292		627	0.466	293	294	1.0	0.9	11.496	B
			2	C	827		627	1.319	630	629	58.0	106.4	466.042	F
			3	A, C, D	832		627	1.327	631	631	60.0	108.4	474.247	F
	Exit	1	1		955				955	958	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1028		1061	0.968	1026	1031	5.3	5.4	18.362	C
			2	A, B	77		1061	0.072	76	77	0.1	0.1	3.646	A
	Exit	1	1	(A, B, C, D)	1133	6.61			1104	1108	18.1	23.4	69.526	F
			2	1		1078	6.61			1078	1084	0.0	0.1	0.195
C	Entry	1	1	A, D	635		765	0.831	641	648	3.9	4.2	23.572	C
			2	A, B, C	626		765	0.819	631	630	3.4	3.6	21.943	C
	Exit	1	1		1568				1568	1568	0.0	0.0	0.000	A
			2	1		1078				1078	1084	0.0	0.0	0.000
D	Entry	1	1	A, B	685		810	0.845	683	688	2.6	2.8	14.398	B
			2	C, D	280		810	0.345	282	276	0.6	0.5	7.492	A
	Exit	1	1	(A, B, C, D)	968	6.61			964	965	4.9	6.8	23.166	C
			2	1		1292	6.61			1293	1294	0.2	0.1	0.356
			2	1					1293	1294	0.0	0.0	0.000	A

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	245		688	0.357	245	244	0.9	0.6	8.718	A
			2	C	679		688	0.987	686	674	106.4	106.6	560.056	F
			3	A, C, D	684		688	0.994	694	681	108.4	108.3	567.536	F
	Exit	1	1		810				810	824	0.0	0.0	0.000	A
B	Entry	1	1	C, D	891		1014	0.879	892	918	5.4	4.0	16.675	C
			2	A, B	66		1014	0.065	65	69	0.1	0.1	3.824	A
	Exit	1	1	(A, B, C, D)	921	5.39			956	981	23.4	8.9	49.472	E
			1		893	5.39			893	908	0.1	0.0	0.127	A
			2		893				893	908	0.0	0.0	0.000	A
C	Entry	1	1	A, D	537		785	0.684	542	547	4.2	1.6	13.485	B
			2	A, B, C	513		785	0.654	514	524	3.6	1.7	12.393	B
	Exit	1	1		1534				1534	1536	0.0	0.0	0.000	A
D	Entry	1	1	A, B	566		891	0.636	567	584	2.8	1.5	10.459	B
			2	C, D	227		891	0.254	226	232	0.5	0.5	5.812	A
			2	(A, B, C, D)	791	5.39			793	811	6.8	0.4	6.645	A
	Exit	1	1		1195	5.39			1195	1205	0.1	0.0	0.302	A
			2		1195				1195	1205	0.0	0.0	0.000	A

## 18:00 - 18:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	202		719	0.281	204	199	0.6	0.3	7.090	A
			2	C	570		719	0.792	726	723	106.6	69.1	440.100	F
			3	A, C, D	563		719	0.783	723	717	108.3	71.1	453.034	F
	Exit	1	1		688				688	684	0.0	0.0	0.000	A
B	Entry	1	1	C, D	738		989	0.746	739	760	4.0	2.7	13.223	B
			2	A, B	57		989	0.058	57	57	0.1	0.1	3.946	A
	Exit	1	1	(A, B, C, D)	783	4.52			795	811	8.9	1.1	12.788	B
			1		749	4.52			749	750	0.0	0.0	0.093	A
			2		749				749	750	0.0	0.0	0.000	A
C	Entry	1	1	A, D	452		820	0.551	455	452	1.6	1.0	8.904	A
			2	A, B, C	426		820	0.520	427	428	1.7	0.9	8.170	A
	Exit	1	1		1498				1498	1498	0.0	0.0	0.000	A
D	Entry	1	1	A, B	474		957	0.495	474	477	1.5	0.9	7.516	A
			2	C, D	189		957	0.197	190	190	0.5	0.2	4.917	A
			2	(A, B, C, D)	662	4.52			663	664	0.4	0.1	0.814	A
	Exit	1	1		1059	4.52			1060	1070	0.0	0.0	0.154	A
			2		1060				1060	1070	0.0	0.0	0.000	A

### Lane movements: Main Results for each time segment

16:45 - 17:00

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	201	50	1098	718	0.280	200	200	0.0	0.4	7.087	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	527	132	1098	720	0.733	521	513	0.0	2.5	13.977	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	52	13	1098	718	0.072	51	51	0.0	0.3	19.760	C	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	255	64	1098	719	0.355	254	248	0.0	1.2	14.205	B	
				D	311	78	1098	720	0.432	309	302	0.0	1.8	20.031	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	296	74	1152	1229	0.241	297	295	0.0	0.5	6.481	A	
				D	418	104	1152	1229	0.340	417	417	0.0	0.9	6.486	A	
			2	A	55	14	1152	1234	0.045	55	54	0.0	0.1	3.000	A	
				B	0.70	0.18	212	233	0.003	0.70	0.77	0.0	0.0	2.887	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	55	14	-	-	-	55	54	0.0	0.0	0.495	A
					B	0.70	0.18	-	-	-	0.70	0.77	0.0	0.0	0.000	A
					C	296	74	-	-	-	296	297	0.0	0.1	0.595	A
					D	418	104	-	-	-	418	420	0.0	0.1	0.579	A
C	Entry	1	1	A	214	53	1167	860	0.249	214	211	0.0	0.4	6.459	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	242	60	1167	861	0.281	241	242	0.0	0.6	8.563	A	
			2	A	241	60	1167	862	0.279	240	237	0.0	0.4	6.370	A	
				B	183	46	1167	861	0.213	182	181	0.0	0.4	7.803	A	
				C	1	0.26	303	226	0.005	0.85	1	0.0	0.0	7.726	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	112	28	1055	963	0.116	112	113	0.0	0.2	7.057	A	
				B	360	90	1055	962	0.374	360	351	0.0	0.8	7.039	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	195	49	1055	962	0.202	195	192	0.0	0.2	4.776	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	111	28	-	-	-	112	114	0.0	0.0	0.662	A
					B	359	90	-	-	-	360	354	0.0	0.0	0.750	A
					C	194	48	-	-	-	195	193	0.0	0.0	0.594	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:00 - 17:15

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			
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	234	59	1098	683	0.343	236	238	0.4	0.6	8.245	A			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	0	0	0	0	0.000	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	673	168	1098	683	0.985	650	630	2.5	11.3	43.455	E			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			3	A	63	16	1098	680	0.093	60	60	0.3	1.2	53.463	F			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	265	66	1098	686	0.386	256	253	1.2	4.5	44.153	E			
				D	374	94	1098	686	0.546	363	348	1.8	7.1	53.315	F			
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	350	87	1152	1055	0.332	350	351	0.5	1.4	11.747	B			
				D	507	127	1152	1052	0.482	505	495	0.9	2.1	11.728	B			
			2	A	61	15	1152	1062	0.057	60	62	0.1	0.1	3.390	A			
				B	0.70	0.18	217	210	0.003	0.70	0.85	0.0	0.0	3.174	A			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	1	A	61	15	-	-	-	61	62	0.0	0.1	3.600	A		
					B	0.70	0.18	-	-	-	0.70	0.87	0.0	0.0	4.458	A		
					C	350	87	-	-	-	350	354	0.1	0.7	4.124	A		
					D	508	127	-	-	-	507	500	0.1	0.9	4.027	A		
C	Entry	1	1	A	249	62	1167	800	0.311	249	251	0.4	0.7	9.335	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	289	72	1167	799	0.362	286	285	0.6	1.3	12.288	B			
			2	A	290	73	1167	800	0.363	289	284	0.4	0.8	9.124	A			
				B	221	55	1167	796	0.278	223	222	0.4	0.6	11.309	B			
				C	2	0.43	498	347	0.005	2	2	0.0	0.0	11.755	B			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D	Entry	1	1	A	132	33	1055	895	0.148	132	135	0.2	0.3	9.106	A			
				B	426	106	1055	897	0.475	420	423	0.8	1.4	9.098	A			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	227	57	1055	897	0.253	226	226	0.2	0.4	5.497	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	1	A	133	33	-	-	-	132	136	0.0	0.1	2.089	A		
					B	428	107	-	-	-	426	426	0.0	0.3	1.963	A		
					C	227	57	-	-	-	227	226	0.0	0.1	1.659	A		
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

## 17:15 - 17:30

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			
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	302	75	1098	628	0.481	300	294	0.6	1.0	10.928	B			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	0	0	0	0	0.000	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	835	209	1098	627	1.333	637	636	11.3	58.0	195.868	F			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			3	A	77	19	1098	632	0.122	58	60	1.2	5.6	206.648	F			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	307	77	1098	626	0.491	223	232	4.5	22.0	200.738	F			
				D	449	112	1098	627	0.715	347	347	7.1	32.5	206.922	F			
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	426	107	1152	1064	0.401	424	410	1.4	2.2	17.663	C			
				D	584	146	1152	1066	0.548	585	574	2.1	3.1	17.782	C			
			2	A	75	19	1152	1074	0.070	76	74	0.1	0.1	3.841	A			
				B	1	0.26	251	229	0.005	1	1	0.0	0.0	3.674	A			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	1	A	77	19	-	-	-	75	74	0.1	1.2	37.745	E		
					B	1	0.26	-	-	-	1	1	0.0	0.0	32.772	D		
					C	446	111	-	-	-	426	414	0.7	7.1	38.916	E		
					D	612	153	-	-	-	584	578	0.9	9.8	38.690	E		
C	Entry	1	1	A	302	75	1167	762	0.396	301	294	0.7	1.5	17.053	C			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	350	88	1167	763	0.459	346	348	1.3	2.3	21.712	C			
			2	A	362	90	1167	762	0.475	361	355	0.8	1.9	17.276	C			
				B	268	67	1167	762	0.352	269	265	0.6	1.5	20.094	C			
				C	2	0.54	493	325	0.007	2	2	0.0	0.0	18.644	C			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D	Entry	1	1	A	165	41	1055	809	0.204	166	163	0.3	0.7	13.582	B			
				B	524	131	1055	806	0.650	525	514	1.4	2.0	13.392	B			
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	276	69	1055	807	0.342	275	269	0.4	0.6	7.028	A			
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	1	A	164	41	-	-	-	165	164	0.1	0.9	14.901	B		
					B	524	131	-	-	-	524	516	0.3	2.7	15.095	C		
					C	275	69	-	-	-	276	270	0.1	1.3	13.807	B		
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

## 17:30 - 17:45

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	292	73	1098	632	0.462	293	294	1.0	0.9	11.496	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	827	207	1098	627	1.319	630	629	58.0	106.4	466.042	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	78	19	1098	628	0.124	61	59	5.6	10.2	474.861	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	302	76	1098	630	0.480	228	230	22.0	38.4	469.423	F	
			D	452	113	1098	626	0.723	342	341	32.5	59.7	477.349	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	428	107	1152	1059	0.405	426	430	2.2	2.3	18.389	C
				D	599	150	1152	1058	0.567	600	600	3.1	3.1	18.342	C
			2	A	76	19	1152	1058	0.071	75	76	0.1	0.1	3.652	A
				B	1	0.26	265	248	0.004	1	1	0.0	0.0	3.181	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	78	20	-	-	-	76	76	1.2	1.6	68.453	F
				B	1	0.31	-	-	-	1	0.99	0.0	0.0	67.909	F
				C	437	109	-	-	-	428	431	7.1	9.0	69.263	F
				D	616	154	-	-	-	599	601	9.8	12.9	69.856	F
C	Entry	1	1	A	286	71	1167	764	0.374	292	296	1.5	1.5	20.805	C
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	349	87	1167	765	0.456	349	353	2.3	2.7	25.802	D
		2	A	362	90	1167	764	0.474	364	359	1.9	2.0	20.544	C	
			B	262	65	1167	763	0.343	265	268	1.5	1.7	23.709	C	
			C	3	0.68	552	357	0.008	3	2	0.0	0.0	20.665	C	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	164	41	1055	809	0.203	164	168	0.7	0.7	14.488	B
				B	521	130	1055	810	0.643	519	521	2.0	2.2	14.370	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	280	70	1055	809	0.346	282	276	0.6	0.5	7.492	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	166	41	-	-	-	164	168	0.9	1.4	24.028	C
				B	521	130	-	-	-	521	522	2.7	3.6	23.541	C
				C	281	70	-	-	-	280	275	1.3	1.8	21.972	C
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A



## 17:45 - 18:00

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	245	61	1098	687	0.357	245	244	0.9	0.6	8.718	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	679	170	1098	687	0.987	686	674	106.4	106.6	560.056	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	61	15	1098	687	0.089	63	64	10.2	9.7	567.184	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	256	64	1098	688	0.372	253	246	38.4	39.9	564.171	F	
			D	366	92	1098	690	0.531	378	372	59.7	58.6	569.988	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	368	92	1152	1013	0.363	367	382	2.3	1.8	16.748	C
				D	523	131	1152	1015	0.515	525	535	3.1	2.2	16.623	C
			2	A	65	16	1152	1022	0.063	64	68	0.1	0.1	3.826	A
				B	0.95	0.24	217	191	0.005	0.90	0.87	0.0	0.0	3.683	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	63	16	-	-	-	65	68	1.6	0.6	48.039	E
				B	0.90	0.23	-	-	-	0.95	0.89	0.0	0.0	44.545	E
				C	355	89	-	-	-	368	380	9.0	3.6	49.748	E
				D	503	126	-	-	-	523	531	12.9	4.7	49.472	E
C	Entry	1	1	A	247	62	1167	786	0.314	250	250	1.5	0.6	11.410	B
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	290	73	1167	785	0.370	292	298	2.7	1.0	15.175	C
		2	A	293	73	1167	786	0.372	293	298	2.0	0.9	11.546	B	
			B	219	55	1167	784	0.280	219	224	1.7	0.8	13.449	B	
			C	1	0.35	400	265	0.005	1	2	0.0	0.0	12.658	B	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	138	34	1055	895	0.154	139	145	0.7	0.3	10.473	B
				B	428	107	1055	890	0.481	428	439	2.2	1.2	10.454	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	227	57	1055	893	0.254	226	232	0.5	0.5	5.812	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	137	34	-	-	-	138	143	1.4	0.1	6.629	A
				B	427	107	-	-	-	428	435	3.6	0.3	6.751	A
				C	226	56	-	-	-	227	232	1.8	0.1	6.462	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 18:00 - 18:15

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	202	50	1098	720	0.280	204	199	0.6	0.3	7.090	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	570	142	1098	719	0.792	726	723	106.6	69.1	440.100	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	52	13	1098	722	0.072	66	65	9.7	6.6	451.456	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	204	51	1098	721	0.283	269	265	39.9	25.5	448.437	F		
				D	307	77	1098	719	0.427	389	387	58.6	38.9	456.577	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	310	78	1152	991	0.313	312	319	1.8	1.1	13.100	B		
				D	428	107	1152	991	0.432	427	441	2.2	1.6	13.312	B		
			2	A	56	14	1152	995	0.057	56	56	0.1	0.1	3.937	A		
				B	0.70	0.18	169	145	0.005	0.70	0.62	0.0	0.0	4.797	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	55	14	-	-	-	56	56	0.6	0.0	11.563	B	
					B	0.70	0.18	-	-	-	0.70	0.60	0.0	0.0	11.218	B	
					C	306	76	-	-	-	310	316	3.6	0.4	12.701	B	
					D	422	105	-	-	-	428	438	4.7	0.6	13.015	B	
C	Entry	1	1	A	211	53	1167	820	0.257	211	210	0.6	0.4	7.508	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	241	60	1167	821	0.293	244	242	1.0	0.6	10.072	B		
			2	A	239	60	1167	820	0.292	241	240	0.9	0.4	7.375	A		
				B	185	46	1167	821	0.226	185	187	0.8	0.5	9.111	A		
				C	1	0.34	356	248	0.005	1	1	0.0	0.0	10.334	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	114	29	1055	956	0.120	114	113	0.3	0.2	7.595	A		
				B	359	90	1055	957	0.375	360	364	1.2	0.7	7.492	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	189	47	1055	957	0.197	190	190	0.5	0.2	4.917	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	114	29	-	-	-	114	112	0.1	0.0	0.924	A	
					B	359	90	-	-	-	359	362	0.3	0.0	0.893	A	
					C	189	47	-	-	-	189	189	0.1	0.0	0.606	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

# 2035 Scenario 2, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Lane Simulation	Arm A - Lane Simulation	Arm A: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	234.65	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	234.65	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2035 Scenario 2	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1759	100.000
B		ONE HOUR	✓	1077	100.000
C		ONE HOUR	✓	1296	100.000
D		ONE HOUR	✓	942	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	69	268	995	427
	B	70	2	400	605
	C	585	260	2	449
	D	153	537	252	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	3	2	3	4
	B	0	0	3	3
	C	11	4	0	7
	D	5	4	1	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	541.13	240.4	F	1612	2418
B	103.08	37.8	F	994	1491
C	60.34	26.5	F	1192	1789
D	54.15	16.5	F	861	1291

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1318	329	742		1322	1303	659	0.0	6.3	15.487	C
B	820	205	1292	4.52	818	805	802	0.0	1.8	7.258	A
C	977	244	834		976	965	1240	0.0	2.6	8.655	A
D	708	177	732	4.52	707	702	1123	0.0	1.6	7.742	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1585	396	892		1535	1503	784	6.3	26.2	45.610	E
B	976	244	1493	5.39	965	952	973	1.8	6.3	17.323	C
C	1171	293	1001		1167	1159	1446	2.6	5.3	14.143	B
D	853	213	872	5.39	857	845	1322	1.6	2.7	11.929	B

**17:15 - 17:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1932	483	1082		1525	1535	924	26.2	126.1	189.484	F
B	1194	299	1485	6.61	1112	1098	1148	6.3	27.9	60.652	F
C	1435	359	1073		1401	1370	1511	5.3	20.1	38.279	E
D	1037	259	1040	6.61	999	992	1453	2.7	14.1	34.482	D

**17:30 - 17:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1937	484	1103		1502	1512	928	126.1	230.5	439.992	F
B	1188	297	1475	6.61	1132	1142	1160	27.9	37.8	103.076	F
C	1419	355	1095		1396	1401	1498	20.1	26.5	60.342	F
D	1031	258	1040	6.61	1024	1019	1467	14.1	16.5	54.148	F

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1583	396	868		1568	1541	805	230.5	240.4	541.134	F
B	973	243	1520	5.39	1009	1063	961	37.8	14.8	74.130	F
C	1163	291	1021		1190	1242	1480	26.5	6.1	32.186	D
D	833	208	895	5.39	842	897	1363	16.5	3.6	25.640	D

**18:00 - 18:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1318	329	726		1627	1608	680	240.4	168.9	392.583	F
B	815	204	1586	4.52	828	855	812	14.8	4.1	26.355	D
C	988	247	934		987	993	1448	6.1	2.9	11.006	B
D	703	176	757	4.52	705	717	1207	3.6	1.5	8.680	A

## Lane Results

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

### Lanes: Main Results for each time segment

#### 16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	199		702	0.283	199	199	0.0	0.4	7.360	A
			2	C	515		702	0.734	516	505	0.0	2.5	14.788	B
			3	A, C, D	604		702	0.860	608	598	0.0	3.4	18.797	C
	Exit	1	1		659				659	653	0.0	0.0	0.000	A
B	Entry	1	1	C, D	765		1240	0.617	764	750	0.0	1.6	6.919	A
			2	A, B	55		1240	0.044	55	55	0.0	0.1	2.974	A
	Exit	1	1	(A, B, C, D)	820	4.52			820	811	0.0	0.1	0.611	A
			2	1		802	4.52			802	798	0.0	0.0	0.142
C	Entry	1	1	A, D	524		841	0.623	525	522	0.0	1.4	9.261	A
			2	A, B, C	453		841	0.538	451	444	0.0	1.1	7.948	A
	Exit	1	1		1240				1240	1223	0.0	0.0	0.000	A
D	Entry	1	1	A, B	518		964	0.538	518	516	0.0	1.1	7.533	A
			2	C, D	190		964	0.197	189	187	0.0	0.3	4.656	A
	Exit	1	1	(A, B, C, D)	708	4.52			708	708	0.0	0.2	0.985	A
			2	1		1123	4.52			1123	1101	0.0	0.1	0.243

#### 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	246		662	0.371	246	241	0.4	0.6	8.706	A
			2	C	658		662	0.994	633	618	2.5	11.8	48.256	E
			3	A, C, D	682		662	1.030	657	645	3.4	13.8	56.231	F
	Exit	1	1		784				784	781	0.0	0.0	0.000	A
B	Entry	1	1	C, D	904		1084	0.834	901	887	1.6	3.6	12.294	B
			2	A, B	65		1084	0.060	65	65	0.1	0.0	3.452	A
	Exit	1	1	(A, B, C, D)	976	5.39			968	960	0.1	2.6	5.563	A
			2	1		973	5.39			973	957	0.0	0.0	0.114
C	Entry	1	1	A, D	618		776	0.797	616	614	1.4	3.0	15.293	C
			2	A, B, C	553		776	0.713	552	545	1.1	2.3	12.851	B
	Exit	1	1		1446				1446	1425	0.0	0.0	0.000	A
D	Entry	1	1	A, B	625		896	0.697	627	618	1.1	1.7	9.779	A
			2	C, D	229		896	0.255	230	227	0.3	0.3	5.443	A
	Exit	1	1	(A, B, C, D)	853	5.39			854	847	0.2	0.8	3.325	A
			2	1		1322	5.39			1322	1296	0.1	0.1	0.265

## 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	295		611	0.482	294	295	0.6	1.0	11.481	B
			2	C	826		611	1.352	622	622	11.8	61.6	215.399	F
			3	A, C, D	811		611	1.327	609	618	13.8	63.5	228.763	F
	Exit	1	1		924				924	906	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1043		1090	0.957	1040	1025	3.6	5.5	17.705	C
			2	A, B	72		1090	0.066	72	73	0.0	0.1	3.577	A
	Exit	1	1	(A, B, C, D)	1194	6.61			1115	1106	2.6	22.3	43.803	E
			1		1148	6.61			1148	1136	0.0	0.0	0.185	A
			2		1148				1148	1136	0.0	0.0	0.000	A
C	Entry	1	1	A, D	732		748	0.979	712	702	3.0	10.8	40.735	E
			2	A, B, C	703		748	0.941	689	669	2.3	9.3	35.701	E
	Exit	1	1		1511				1511	1505	0.0	0.0	0.000	A
D	Entry	1	1	A, B	734		815	0.901	731	725	1.7	3.2	14.000	B
			2	C, D	266		815	0.327	268	267	0.3	0.5	6.898	A
			2	(A, B, C, D)	1037	6.61			1001	999	0.8	10.4	22.328	C
	Exit	1	1		1453	6.61			1453	1447	0.1	0.2	0.372	A
			2	1		1453				1453	1447	0.0	0.0	0.000

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	292		606	0.482	291	294	1.0	1.0	12.094	B
			2	C	816		606	1.348	599	611	61.6	113.8	510.641	F
			3	A, C, D	829		606	1.369	611	606	63.5	115.7	525.457	F
	Exit	1	1		928				928	934	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1058		1098	0.963	1055	1064	5.5	5.6	18.443	C
			2	A, B	77		1098	0.070	76	77	0.1	0.1	3.598	A
	Exit	1	1	(A, B, C, D)	1188	6.61			1134	1143	22.3	32.1	85.680	F
			1		1160	6.61			1160	1156	0.0	0.1	0.196	A
			2		1160				1160	1156	0.0	0.0	0.000	A
C	Entry	1	1	A, D	715		739	0.968	703	711	10.8	14.1	63.071	F
			2	A, B, C	703		739	0.952	692	690	9.3	12.4	57.537	F
	Exit	1	1		1498				1498	1510	0.0	0.0	0.000	A
D	Entry	1	1	A, B	751		815	0.922	750	746	3.2	3.3	15.525	C
			2	C, D	274		815	0.336	274	273	0.5	0.6	7.409	A
			2	(A, B, C, D)	1031	6.61			1025	1020	10.4	12.6	40.867	E
	Exit	1	1		1467	6.61			1467	1473	0.2	0.2	0.487	A
			2	1		1467				1467	1473	0.0	0.0	0.000

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	242		668	0.362	241	243	1.0	0.6	9.284	A
			2	C	665		668	0.995	659	649	113.8	118.9	634.993	F
			3	A, C, D	676		668	1.011	668	649	115.7	120.9	641.757	F
	Exit	1	1		805				805	837	0.0	0.0	0.000	A
B	Entry	1	1	C, D	942		1063	0.886	942	992	5.6	4.3	16.675	C
			2	A, B	67		1063	0.063	67	71	0.1	0.1	3.652	A
	Exit	1	1	(A, B, C, D)	973	5.39			1008	1057	32.1	10.5	58.520	F
			2	1		961	5.39			961	1005	0.1	0.1	0.149
C	Entry	1	1	A, D	606		768	0.789	619	644	14.1	3.5	34.022	D
			2	A, B, C	557		768	0.726	570	598	12.4	2.6	30.210	D
	Exit	1	1		1480				1480	1499	0.0	0.0	0.000	A
			2	1		961				961	1005	0.0	0.0	0.000
D	Entry	1	1	A, B	619		885	0.699	620	660	3.3	1.9	12.248	B
			2	C, D	222		885	0.251	221	237	0.6	0.4	6.307	A
	Exit	1	1	(A, B, C, D)	833	5.39			841	890	12.6	1.3	15.185	C
			2	1		1362	5.39			1363	1402	0.2	0.1	0.349
			2	1	1363				1363	1402	0.0	0.0	0.000	A

## 18:00 - 18:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	206		706	0.291	205	205	0.6	0.4	7.353	A
			2	C	550		706	0.779	709	698	118.9	82.9	519.149	F
			3	A, C, D	562		706	0.796	713	705	120.9	85.6	526.989	F
	Exit	1	1		680				680	686	0.0	0.0	0.000	A
B	Entry	1	1	C, D	774		1012	0.765	771	797	4.3	2.9	13.124	B
			2	A, B	57		1012	0.056	57	58	0.1	0.1	3.653	A
	Exit	1	1	(A, B, C, D)	815	4.52			831	850	10.5	1.2	14.155	B
			2	1		812	4.52			812	817	0.1	0.0	0.095
C	Entry	1	1	A, D	524		802	0.654	523	531	3.5	1.7	11.960	B
			2	A, B, C	464		802	0.579	464	462	2.6	1.2	9.917	A
	Exit	1	1		1448				1448	1447	0.0	0.0	0.000	A
			2	1		961				961	1005	0.0	0.0	0.000
D	Entry	1	1	A, B	517		952	0.543	518	526	1.9	1.1	8.141	A
			2	C, D	186		952	0.196	187	191	0.4	0.2	4.934	A
	Exit	1	1	(A, B, C, D)	703	4.52			703	713	1.3	0.2	1.463	A
			2	1		1208	4.52			1207	1224	0.1	0.1	0.210
			2	1	1207				1207	1224	0.0	0.0	0.000	A



**Lane movements: Main Results for each time segment**

16:45 - 17:00

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	199	50	1098	703	0.283	199	199	0.0	0.4	7.360	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	515	129	1098	702	0.734	516	505	0.0	2.5	14.788	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	50	12	1098	705	0.071	51	51	0.0	0.3	21.461	C	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	233	58	1098	703	0.331	232	233	0.0	1.2	14.653	B	
				D	321	80	1098	704	0.456	324	314	0.0	2.0	21.462	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	303	76	1152	1240	0.244	301	296	0.0	0.7	6.908	A	
				D	462	116	1152	1240	0.373	462	454	0.0	0.9	6.927	A	
			2	A	54	13	1152	1246	0.043	53	53	0.0	0.1	2.980	A	
				B	1	0.36	365	404	0.004	1	1	0.0	0.0	2.761	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	54	13	-	-	-	54	54	0.0	0.0	0.585	A
					B	1	0.36	-	-	-	1	1	0.0	0.0	0.855	A
					C	303	76	-	-	-	303	299	0.0	0.1	0.645	A
					D	462	116	-	-	-	462	457	0.0	0.1	0.590	A
C	Entry	1	1	A	188	47	1167	845	0.223	189	188	0.0	0.4	7.172	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	336	84	1167	843	0.398	336	334	0.0	1.0	10.395	B	
			2	A	251	63	1167	843	0.298	250	248	0.0	0.5	7.334	A	
				B	200	50	1167	840	0.238	199	195	0.0	0.6	8.673	A	
				C	2	0.45	389	283	0.006	2	2	0.0	0.0	8.535	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	115	29	1055	963	0.120	116	113	0.0	0.2	7.503	A	
				B	403	101	1055	964	0.418	402	403	0.0	0.9	7.541	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	190	47	1055	963	0.197	189	187	0.0	0.3	4.656	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	115	29	-	-	-	115	114	0.0	0.1	1.034	A
					B	403	101	-	-	-	403	406	0.0	0.1	1.031	A
					C	190	47	-	-	-	190	188	0.0	0.0	0.858	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:00 - 17:15

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	246	61	1098	662	0.371	246	241	0.4	0.6	8.706	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	658	164	1098	662	0.994	633	618	2.5	11.8	48.256	E	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	61	15	1098	664	0.092	59	57	0.3	1.2	59.371	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	229	57	1098	664	0.345	222	225	1.2	4.3	49.054	E	
				D	391	98	1098	663	0.590	376	363	2.0	8.2	60.165	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	361	90	1152	1086	0.332	360	353	0.7	1.5	12.293	B	
				D	543	136	1152	1084	0.500	541	533	0.9	2.1	12.294	B	
			2	A	63	16	1152	1093	0.057	63	63	0.1	0.0	3.438	A	
				B	2	0.46	458	446	0.004	2	2	0.0	0.0	3.921	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	63	16	-	-	-	63	63	0.0	0.1	5.377	A
					B	2	0.47	-	-	-	2	2	0.0	0.0	5.778	A
					C	364	91	-	-	-	361	356	0.1	1.0	5.577	A
					D	546	137	-	-	-	543	538	0.1	1.4	5.575	A
C	Entry	1	1	A	211	53	1167	778	0.271	211	214	0.4	0.7	11.804	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	408	102	1167	775	0.526	404	400	1.0	2.3	17.082	C	
			2	A	315	79	1167	777	0.405	315	311	0.5	1.2	11.930	B	
				B	236	59	1167	774	0.305	235	232	0.6	1.1	13.978	B	
				C	2	0.49	460	312	0.006	2	2	0.0	0.0	15.760	C	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	137	34	1055	897	0.153	136	136	0.2	0.4	9.688	A	
				B	488	122	1055	896	0.545	491	482	0.9	1.2	9.804	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	229	57	1055	897	0.255	230	227	0.3	0.3	5.443	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	136	34	-	-	-	137	137	0.1	0.1	3.376	A
					B	487	122	-	-	-	488	483	0.1	0.5	3.488	A
					C	229	57	-	-	-	229	227	0.0	0.2	2.955	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:15 - 17:30

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	295	74	1098	612	0.481	294	295	0.6	1.0	11.481	B		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	826	207	1098	611	1.353	622	622	11.8	61.6	215.399	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	76	19	1098	612	0.124	57	57	1.2	5.9	232.828	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	270	67	1098	615	0.438	203	204	4.3	21.0	224.070	F		
				D	466	116	1098	612	0.761	349	357	8.2	36.6	230.835	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	418	104	1152	1091	0.383	416	410	1.5	2.2	17.725	C		
				D	626	156	1152	1090	0.574	624	615	2.1	3.3	17.692	C		
			2	A	70	17	1152	1091	0.064	70	71	0.0	0.1	3.572	A		
				B	2	0.49	502	472	0.004	2	2	0.0	0.0	3.724	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	76	19	-	-	-	70	71	0.1	1.4	42.918	E	
					B	2	0.48	-	-	-	2	2	0.0	0.0	38.612	E	
					C	448	112	-	-	-	418	413	1.0	8.5	44.302	E	
					D	669	167	-	-	-	626	619	1.4	12.4	43.594	E	
C	Entry	1	1	A	241	60	1167	748	0.322	232	225	0.7	3.3	35.184	E		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	491	123	1167	746	0.658	481	476	2.3	7.5	43.268	E		
			2	A	412	103	1167	748	0.551	405	393	1.2	5.3	34.604	D		
				B	289	72	1167	752	0.384	281	274	1.1	3.9	37.126	E		
				C	3	0.64	483	310	0.008	2	2	0.0	0.1	41.895	E		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	161	40	1055	816	0.197	160	160	0.4	0.7	13.973	B		
				B	574	143	1055	816	0.703	571	565	1.2	2.5	14.007	B		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	266	67	1055	815	0.327	268	267	0.3	0.5	6.898	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	168	42	-	-	-	161	161	0.1	1.8	22.698	C	
					B	593	148	-	-	-	574	571	0.5	5.8	22.765	C	
					C	276	69	-	-	-	266	268	0.2	2.7	21.212	C	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 17:30 - 17:45

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	292	73	1098	605	0.482	291	294	1.0	1.0	12.094	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	816	204	1098	605	1.349	599	611	61.6	113.8	510.641	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	78	20	1098	604	0.130	60	57	5.9	11.0	530.791	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	277	69	1098	603	0.460	200	200	21.0	38.1	521.621	F	
			D	473	118	1098	604	0.783	351	349	36.6	66.6	526.781	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	425	106	1152	1098	0.387	422	423	2.2	2.4	18.414	C
				D	633	158	1152	1098	0.576	633	641	3.3	3.2	18.461	C
			2	A	75	19	1152	1099	0.068	74	75	0.1	0.1	3.599	A
				B	2	0.53	448	424	0.005	2	2	0.0	0.0	3.583	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	79	20	-	-	-	75	76	1.4	2.1	84.631	F
				B	2	0.53	-	-	-	2	2	0.0	0.1	84.884	F
				C	447	112	-	-	-	425	424	8.5	12.1	85.856	F
				D	660	165	-	-	-	633	641	12.4	17.8	85.694	F
C	Entry	1	1	A	221	55	1167	737	0.300	222	227	3.3	3.8	56.156	F
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	494	124	1167	742	0.667	482	483	7.5	10.4	66.154	F
		2	A	414	103	1167	741	0.558	407	405	5.3	7.2	56.438	F	
			B	287	72	1167	740	0.388	283	283	3.9	5.2	59.040	F	
			C	3	0.63	522	330	0.008	2	2	0.1	0.0	54.615	F	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	166	41	1055	815	0.203	166	168	0.7	0.7	15.563	C
				B	586	146	1055	815	0.719	584	578	2.5	2.7	15.515	C
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	274	68	1055	815	0.336	274	273	0.5	0.6	7.409	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	165	41	-	-	-	166	169	1.8	2.0	40.743	E
				B	589	147	-	-	-	586	578	5.8	7.2	41.228	E
				C	277	69	-	-	-	274	273	2.7	3.4	40.198	E
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:45 - 18:00

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	242	61	1098	668	0.362	241	243	1.0	0.6	9.284	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	665	166	1098	668	0.996	659	649	113.8	118.9	634.993	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	64	16	1098	665	0.096	60	61	11.0	11.4	641.989	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	234	58	1098	667	0.350	222	216	38.1	40.7	637.521	F	
			D	378	94	1098	667	0.566	385	373	66.6	68.8	644.253	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	375	94	1152	1062	0.353	376	396	2.4	1.6	16.610	C
				D	567	142	1152	1064	0.532	566	595	3.2	2.6	16.719	C
			2	A	65	16	1152	1064	0.061	65	69	0.1	0.1	3.642	A
				B	2	0.43	448	422	0.004	2	2	0.0	0.0	4.026	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	63	16	-	-	-	65	69	2.1	0.6	57.111	F
				B	2	0.40	-	-	-	2	2	0.1	0.0	67.550	F
				C	362	91	-	-	-	375	393	12.1	4.0	58.959	F
				D	547	137	-	-	-	567	593	17.8	5.8	58.369	F
C	Entry	1	1	A	204	51	1167	767	0.266	209	210	3.8	0.9	27.675	D
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	402	100	1167	769	0.523	410	433	10.4	2.5	37.070	E
		2	A	322	80	1167	766	0.420	329	349	7.2	1.5	29.352	D	
			B	233	58	1167	770	0.303	239	247	5.2	1.1	31.337	D	
			C	2	0.49	506	329	0.006	2	2	0.0	0.0	30.554	D	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	141	35	1055	884	0.159	141	147	0.7	0.4	12.271	B
				B	478	120	1055	885	0.540	479	512	2.7	1.5	12.241	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	222	55	1055	886	0.250	221	237	0.6	0.4	6.307	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	140	35	-	-	-	141	146	2.0	0.2	15.280	C
				B	474	118	-	-	-	478	508	7.2	0.8	15.422	C
				C	220	55	-	-	-	222	236	3.4	0.3	14.631	B
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 18:00 - 18:15

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	206	51	1098	706	0.291	205	205	0.6	0.4	7.353	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	550	138	1098	706	0.779	709	698	118.9	82.9	519.149	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	50	12	1098	705	0.071	64	65	11.4	7.9	531.807	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	190	48	1098	707	0.269	244	239	40.7	28.9	522.483	F		
				D	322	80	1098	706	0.456	405	401	68.8	48.8	528.968	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	308	77	1152	1011	0.305	306	317	1.6	1.2	13.147	B		
				D	466	117	1152	1013	0.460	464	480	2.6	1.7	13.109	B		
			2	A	56	14	1152	1014	0.055	56	57	0.1	0.1	3.656	A		
				B	1	0.33	362	321	0.004	1	1	0.0	0.0	3.527	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	54	14	-	-	-	56	57	0.6	0.1	13.998	B	
					B	1	0.33	-	-	-	1	1	0.0	0.0	16.155	C	
					C	303	76	-	-	-	308	315	4.0	0.5	13.839	B	
					D	456	114	-	-	-	466	476	5.8	0.6	14.377	B	
C	Entry	1	1	A	185	46	1167	801	0.230	185	188	0.9	0.4	9.064	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	340	85	1167	802	0.424	338	343	2.5	1.3	13.509	B		
			2	A	262	66	1167	800	0.328	262	260	1.5	0.7	9.324	A		
				B	200	50	1167	802	0.249	199	200	1.1	0.5	10.645	B		
				C	2	0.49	408	279	0.007	2	2	0.0	0.0	9.266	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	113	28	1055	953	0.119	113	116	0.4	0.2	8.171	A		
				B	404	101	1055	953	0.424	405	411	1.5	0.8	8.132	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	186	47	1055	953	0.196	187	191	0.4	0.2	4.934	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	113	28	-	-	-	113	115	0.2	0.0	1.628	A	
					B	403	101	-	-	-	404	408	0.8	0.1	1.496	A	
					C	187	47	-	-	-	186	190	0.3	0.1	1.299	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

# 2035 Scenario 3, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Lane Simulation	Arm A - Lane Simulation	Arm A: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Last Run	Lane Simulation	Arm B - Lane Simulation	Arm B: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	362.84	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	362.84	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2035 Scenario 3	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1892	100.000
B		ONE HOUR	✓	1136	100.000
C		ONE HOUR	✓	1246	100.000
D		ONE HOUR	✓	934	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	69	268	979	576
	B	70	2	399	665
	C	585	286	2	373
	D	153	487	294	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	3	2	3	4
	B	0	0	3	3
	C	11	4	0	7
	D	5	4	1	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	802.37	375.0	F	1733	2599
B	212.45	80.5	F	1044	1566
C	76.88	33.1	F	1151	1727
D	40.54	11.8	E	855	1282

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1419	355	751		1416	1399	668	0.0	9.4	21.342	C
B	850	212	1411	4.52	857	846	788	0.0	2.4	10.034	B
C	949	237	969		945	936	1266	0.0	2.6	9.277	A
D	714	178	752	4.52	713	709	1209	0.0	1.5	7.386	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1709	427	892		1568	1545	790	9.4	49.4	74.222	F
B	1028	257	1565	5.39	1013	987	931	2.4	11.7	30.978	D
C	1120	280	1149		1124	1111	1416	2.6	5.3	16.238	C
D	835	209	897	5.39	834	832	1402	1.5	2.7	11.021	B



**17:15 - 17:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	2066	517	1108		1496	1523	916	49.4	187.5	299.410	F
B	1245	311	1495	6.61	1126	1096	1130	11.7	51.5	114.035	F
C	1385	346	1186		1342	1308	1450	5.3	22.1	43.913	E
D	1022	256	1061	6.61	1004	999	1475	2.7	10.4	27.730	D

**17:30 - 17:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	2062	515	1117		1504	1503	923	187.5	330.6	646.476	F
B	1255	314	1501	6.61	1147	1142	1152	51.5	80.5	212.450	F
C	1387	347	1185		1355	1338	1453	22.1	33.1	76.877	F
D	1020	255	1067	6.61	1025	1019	1506	10.4	11.8	40.538	E

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1716	429	907		1559	1535	808	330.6	375.0	802.369	F
B	1023	256	1552	5.39	1085	1124	950	80.5	54.3	210.756	F
C	1119	280	1197		1171	1203	1436	33.1	10.8	52.681	F
D	835	209	934	5.39	841	868	1461	11.8	2.9	18.860	C

**18:00 - 18:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1424	356	731		1614	1596	673	375.0	333.6	503.912	F
B	861	215	1597	4.52	953	988	792	54.3	21.7	116.335	F
C	947	237	1125		943	971	1406	10.8	3.6	15.687	C
D	701	175	768	4.52	699	708	1339	2.9	1.6	7.914	A

## Lane Results

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

### Lanes: Main Results for each time segment

#### 16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	204		700	0.291	203	201	0.0	0.5	7.384	A
			2	C	565		700	0.807	565	551	0.0	3.3	19.326	C
			3	A, C, D	650		700	0.929	648	647	0.0	5.6	27.343	D
	Exit	1	1		668				668	661	0.0	0.0	0.000	A
B	Entry	1	1	C, D	800		1147	0.697	805	793	0.0	2.1	8.922	A
			2	A, B	52		1147	0.045	52	53	0.0	0.0	3.260	A
		2	1	(A, B, C, D)	850	4.52			852	855	0.0	0.3	1.451	A
	Exit	1	1		788	4.52			788	787	0.0	0.0	0.143	A
		2	1		788				788	787	0.0	0.0	0.000	A
C	Entry	1	1	A, D	490		788	0.622	489	484	0.0	1.4	9.551	A
			2	A, B, C	459		788	0.582	456	453	0.0	1.2	8.987	A
	Exit	1	1		1266				1266	1248	0.0	0.0	0.000	A
D	Entry	1	1	A, B	488		955	0.511	489	486	0.0	0.9	7.297	A
			2	C, D	225		955	0.236	224	223	0.0	0.3	4.840	A
		2	1	(A, B, C, D)	714	4.52			713	714	0.0	0.2	0.871	A
	Exit	1	1		1209	4.52			1209	1195	0.0	0.1	0.245	A
		2	1		1209				1209	1195	0.0	0.0	0.000	A

#### 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	244		662	0.368	245	242	0.5	0.5	8.986	A
			2	C	731		662	1.104	664	643	3.3	22.2	76.715	F
			3	A, C, D	734		662	1.109	659	659	5.6	26.6	93.441	F
	Exit	1	1		790				790	773	0.0	0.0	0.000	A
B	Entry	1	1	C, D	945		1028	0.920	945	921	2.1	4.5	15.357	C
			2	A, B	68		1028	0.066	68	66	0.0	0.1	3.470	A
		2	1	(A, B, C, D)	1028	5.39			1014	996	0.3	7.2	16.270	C
	Exit	1	1		931	5.39			931	929	0.0	0.0	0.132	A
		2	1		931				931	929	0.0	0.0	0.000	A
C	Entry	1	1	A, D	580		718	0.808	582	571	1.4	2.7	16.698	C
			2	A, B, C	540		718	0.752	542	540	1.2	2.6	15.755	C
	Exit	1	1		1416				1416	1402	0.0	0.0	0.000	A
D	Entry	1	1	A, B	570		884	0.644	569	568	0.9	1.6	9.629	A
			2	C, D	266		884	0.301	265	264	0.3	0.6	5.817	A
		2	1	(A, B, C, D)	835	5.39			836	836	0.2	0.6	2.618	A
	Exit	1	1		1402	5.39			1402	1370	0.1	0.2	0.336	A
		2	1		1402				1402	1370	0.0	0.0	0.000	A

## 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	296		604	0.490	298	297	0.5	1.0	12.010	B
			2	C	892		604	1.477	604	616	22.2	91.4	335.159	F
			3	A, C, D	878		604	1.454	594	611	26.6	95.1	361.854	F
	Exit	1	1		916				916	898	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1060		1082	0.979	1058	1025	4.5	5.8	19.851	C
			2	A, B	67		1082	0.062	68	71	0.1	0.0	3.799	A
	Exit	2	1	(A, B, C, D)	1245	6.61			1127	1101	7.2	45.7	95.265	F
			1	1		1129	6.61			1130	1117	0.0	0.0	0.168
C	Entry	1	1	A, D	699		703	0.994	676	658	2.7	11.5	45.210	E
			2	A, B, C	686		703	0.975	666	649	2.6	10.6	42.608	E
	Exit	1	1		1450				1450	1440	0.0	0.0	0.000	A
			2	1		1130				1130	1117	0.0	0.0	0.000
D	Entry	1	1	A, B	688		805	0.855	686	684	1.6	2.9	13.377	B
			2	C, D	320		805	0.398	318	315	0.6	0.7	7.552	A
	Exit	2	1	(A, B, C, D)	1022	6.61			1008	1005	0.6	6.8	16.121	C
			1	1		1473	6.61			1475	1471	0.2	0.1	0.380
Exit	2	1		1475				1475	1471	0.0	0.0	0.000	A	

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	300		602	0.499	302	298	1.0	1.0	12.500	B
			2	C	884		602	1.469	604	607	91.4	162.8	740.668	F
			3	A, C, D	879		602	1.460	599	598	95.1	166.9	767.752	F
	Exit	1	1		923				923	918	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1074		1077	0.997	1075	1070	5.8	5.8	19.816	C
			2	A, B	73		1077	0.068	72	73	0.0	0.1	3.736	A
	Exit	2	1	(A, B, C, D)	1255	6.61			1147	1142	45.7	74.6	193.721	F
			1	1		1152	6.61			1152	1135	0.0	0.1	0.166
C	Entry	1	1	A, D	699		704	0.994	681	671	11.5	17.0	78.656	F
			2	A, B, C	687		704	0.977	674	667	10.6	16.1	75.099	F
	Exit	1	1		1453				1453	1450	0.0	0.0	0.000	A
			2	1		1152				1152	1135	0.0	0.0	0.000
D	Entry	1	1	A, B	704		802	0.877	702	699	2.9	2.9	14.536	B
			2	C, D	324		802	0.404	323	320	0.7	0.9	7.877	A
	Exit	2	1	(A, B, C, D)	1020	6.61			1028	1020	6.8	8.1	28.163	D
			1	1		1503	6.61			1506	1499	0.1	0.1	0.498
Exit	2	1		1506				1506	1499	0.0	0.0	0.000	A	

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	243		658	0.369	241	244	1.0	0.6	9.177	A
			2	C	735		658	1.117	661	646	162.8	185.0	921.158	F
			3	A, C, D	739		658	1.123	657	646	166.9	189.3	948.656	F
	Exit	1	1		808				808	834	0.0	0.0	0.000	A
B	Entry	1	1	C, D	1015		1038	0.978	1018	1053	5.8	5.3	19.308	C
			2	A, B	67		1038	0.064	66	72	0.1	0.1	3.648	A
	Exit	1	1	(A, B, C, D)	1023	5.39			1082	1122	74.6	48.9	192.396	F
			2	1		950	5.39			950	976	0.1	0.1	0.154
C	Entry	1	1	A, D	563		699	0.806	588	603	17.0	5.7	54.092	F
			2	A, B, C	557		699	0.796	583	601	16.1	5.1	51.278	F
	Exit	1	1		1436				1436	1438	0.0	0.0	0.000	A
D	Entry	1	1	A, B	576		866	0.664	575	597	2.9	1.7	11.423	B
			2	C, D	266		866	0.307	266	272	0.9	0.5	6.739	A
	Exit	1	1	(A, B, C, D)	835	5.39			841	862	8.1	0.8	9.100	A
			2	1		1461	5.39			1461	1483	0.1	0.2	0.434

## 18:00 - 18:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B	204		705	0.289	204	205	0.6	0.4	7.585	A
			2	C	619		705	0.879	712	703	185.0	164.5	794.171	F
			3	A, C, D	601		705	0.852	698	688	189.3	168.6	809.746	F
	Exit	1	1		673				673	689	0.0	0.0	0.000	A
B	Entry	1	1	C, D	892		1002	0.890	894	926	5.3	4.2	18.175	C
			2	A, B	59		1002	0.059	59	62	0.1	0.1	3.902	A
	Exit	1	1	(A, B, C, D)	861	4.52			951	983	48.9	17.4	99.320	F
			2	1		792	4.52			792	806	0.1	0.0	0.117
C	Entry	1	1	A, D	491		727	0.675	488	499	5.7	1.9	16.119	C
			2	A, B, C	456		727	0.627	455	472	5.1	1.6	15.236	C
	Exit	1	1		1406				1406	1412	0.0	0.0	0.000	A
D	Entry	1	1	A, B	484		947	0.511	481	487	1.7	1.1	7.856	A
			2	C, D	217		947	0.229	218	221	0.5	0.3	5.292	A
	Exit	1	1	(A, B, C, D)	701	4.52			701	706	0.8	0.1	0.902	A
			2	1		1340	4.52			1339	1358	0.2	0.2	0.305

**Lane movements: Main Results for each time segment**

16:45 - 17:00

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	204	51	1098	702	0.291	203	201	0.0	0.5	7.384	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	565	141	1098	700	0.807	565	551	0.0	3.3	19.326	C	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	51	13	1098	701	0.073	51	51	0.0	0.5	30.297	D	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	167	42	1098	699	0.240	169	175	0.0	1.0	19.270	C	
				D	432	108	1098	700	0.617	428	421	0.0	4.2	30.315	D	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	305	76	1152	1147	0.266	307	297	0.0	0.7	8.899	A	
				D	496	124	1152	1146	0.432	498	496	0.0	1.3	8.936	A	
			2	A	51	13	1152	1142	0.044	51	52	0.0	0.0	3.239	A	
				B	1	0.28	360	374	0.003	1	1	0.0	0.0	4.020	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	51	13	-	-	-	51	52	0.0	0.0	1.238	A
					B	1	0.28	-	-	-	1	1	0.0	0.0	0.695	A
					C	304	76	-	-	-	305	300	0.0	0.2	1.499	A
					D	494	124	-	-	-	496	501	0.0	0.2	1.448	A
C	Entry	1	1	A	207	52	1167	789	0.263	207	206	0.0	0.5	8.008	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	283	71	1167	790	0.358	282	278	0.0	0.9	10.648	B	
			2	A	242	60	1167	793	0.305	240	236	0.0	0.6	7.974	A	
				B	215	54	1167	788	0.273	214	215	0.0	0.6	9.997	A	
				C	2	0.41	450	312	0.005	1	2	0.0	0.0	12.436	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	118	30	1055	953	0.124	119	116	0.0	0.2	7.129	A	
				B	370	92	1055	955	0.387	370	370	0.0	0.7	7.349	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	225	56	1055	954	0.236	224	223	0.0	0.3	4.840	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	119	30	-	-	-	118	117	0.0	0.1	0.926	A
					B	370	92	-	-	-	370	373	0.0	0.1	0.937	A
					C	225	56	-	-	-	225	225	0.0	0.1	0.736	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:00 - 17:15

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	244	61	1098	665	0.366	245	242	0.5	0.5	8.986	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	731	183	1098	662	1.104	664	643	3.3	22.2	76.715	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	60	15	1098	668	0.091	54	52	0.5	2.3	98.348	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	150	38	1098	667	0.225	136	149	1.0	4.8	78.674	F	
			D	524	131	1098	661	0.792	469	458	4.2	19.5	97.597	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	350	87	1152	1034	0.338	350	344	0.7	1.6	15.273	C
				D	596	149	1152	1029	0.579	595	577	1.3	2.9	15.407	C
			2	A	66	17	1152	1039	0.064	66	64	0.0	0.1	3.481	A
				B	2	0.50	444	411	0.005	2	2	0.0	0.0	3.137	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	67	17	-	-	-	66	64	0.0	0.5	15.708	C
				B	2	0.52	-	-	-	2	2	0.0	0.0	12.703	B
				C	356	89	-	-	-	350	347	0.2	2.6	16.140	C
				D	604	151	-	-	-	596	583	0.2	4.1	16.423	C
C	Entry	1	1	A	245	61	1167	716	0.343	244	235	0.5	1.0	14.071	B
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	335	84	1167	721	0.465	338	336	0.9	1.7	18.471	C
		2	A	285	71	1167	719	0.396	287	286	0.6	1.2	14.309	B	
			B	253	63	1167	721	0.351	253	253	0.6	1.4	17.286	C	
			C	2	0.41	450	286	0.006	2	2	0.0	0.0	14.680	B	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	136	34	1055	885	0.154	138	136	0.2	0.3	9.728	A
				B	434	109	1055	885	0.490	432	432	0.7	1.3	9.598	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	266	67	1055	886	0.301	265	264	0.3	0.6	5.817	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	136	34	-	-	-	136	137	0.1	0.1	2.822	A
				B	434	108	-	-	-	434	434	0.1	0.3	2.764	A
				C	266	66	-	-	-	266	265	0.1	0.1	2.285	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:15 - 17:30

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	296	74	1098	605	0.489	298	297	0.5	1.0	12.010	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	892	223	1098	604	1.477	604	616	22.2	91.4	335.159	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	75	19	1098	599	0.125	51	51	2.3	8.3	368.246	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	185	46	1092	600	0.309	130	123	4.8	19.3	355.878	F	
				D	618	154	1098	603	1.024	413	437	19.5	67.6	362.814	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	395	99	1152	1085	0.364	395	384	1.6	2.1	19.806	C	
				D	665	166	1152	1080	0.615	663	641	2.9	3.8	19.878	C	
			2	A	66	16	1152	1082	0.061	66	69	0.1	0.0	3.785	A	
				B	2	0.42	438	402	0.004	2	2	0.0	0.0	4.302	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	73	18	-	-	-	66	68	0.5	2.7	93.650	F
					B	2	0.55	-	-	-	2	2	0.0	0.1	90.412	F
					C	434	109	-	-	-	395	386	2.6	16.0	95.640	F
					D	736	184	-	-	-	665	644	4.1	26.9	95.230	F
C	Entry	1	1	A	284	71	1167	708	0.401	279	265	1.0	4.2	40.372	E	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	415	104	1167	703	0.590	397	393	1.7	7.3	48.334	E	
			2	A	368	92	1167	705	0.522	358	348	1.2	5.6	40.990	E	
				B	315	79	1167	709	0.445	306	299	1.4	4.9	44.304	E	
				C	3	0.67	480	290	0.009	3	2	0.0	0.1	51.323	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	164	41	1055	806	0.204	162	165	0.3	0.8	13.407	B	
				B	523	131	1055	804	0.651	524	519	1.3	2.1	13.368	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	320	80	1055	806	0.397	318	315	0.6	0.7	7.552	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	167	42	-	-	-	164	167	0.1	1.2	16.562	C
					B	532	133	-	-	-	523	522	0.3	3.6	16.569	C
					C	323	81	-	-	-	320	316	0.1	2.0	15.174	C
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 17:30 - 17:45

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	300	75	1098	602	0.498	302	298	1.0	1.0	12.500	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	884	221	1098	603	1.466	604	607	91.4	162.8	740.668	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	81	20	1098	600	0.135	50	51	8.3	14.6	774.210	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	176	44	1098	602	0.292	118	122	19.3	32.3	758.192	F	
				D	622	155	1098	602	1.032	430	425	67.6	119.9	769.616	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	405	101	1152	1074	0.377	406	399	2.1	2.2	19.824	C	
				D	669	167	1152	1079	0.620	669	671	3.8	3.6	19.810	C	
			2	A	71	18	1152	1083	0.066	70	70	0.0	0.1	3.725	A	
				B	2	0.50	492	472	0.004	2	2	0.0	0.0	4.069	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	79	20	-	-	-	71	71	2.7	4.8	195.272	F
					B	2	0.58	-	-	-	2	2	0.1	0.1	186.386	F
					C	436	109	-	-	-	405	399	16.0	26.0	194.104	F
					D	738	184	-	-	-	669	670	26.9	43.8	193.347	F
C	Entry	1	1	A	283	71	1167	703	0.403	277	269	4.2	6.4	73.906	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	416	104	1167	704	0.591	404	403	7.3	10.6	81.726	F	
			2	A	367	92	1167	702	0.523	358	359	5.6	8.3	73.444	F	
				B	318	80	1167	706	0.451	314	306	4.9	7.8	76.866	F	
				C	2	0.47	450	270	0.007	2	2	0.1	0.1	81.068	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	167	42	1055	801	0.209	167	169	0.8	0.7	14.646	B	
				B	537	134	1055	800	0.670	535	530	2.1	2.2	14.501	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	324	81	1055	803	0.404	323	320	0.7	0.9	7.877	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	167	42	-	-	-	167	169	1.2	1.5	28.985	D
					B	531	133	-	-	-	537	530	3.6	4.3	28.288	D
					C	322	80	-	-	-	324	321	2.0	2.3	27.548	D
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A



## 17:45 - 18:00

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	243	61	1098	658	0.369	241	244	1.0	0.6	9.177	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	735	184	1098	658	1.117	661	646	162.8	185.0	921.158	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	66	16	1098	659	0.100	61	56	14.6	16.9	947.513	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	154	38	1098	658	0.234	131	126	32.3	38.3	940.171	F	
			D	519	130	1098	660	0.787	465	463	119.9	134.2	951.247	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	376	94	1152	1031	0.365	376	393	2.2	2.0	19.219	C
				D	639	160	1152	1042	0.613	642	660	3.6	3.3	19.361	C
			2	A	64	16	1152	1034	0.062	64	69	0.1	0.1	3.638	A
				B	2	0.56	522	495	0.005	2	2	0.0	0.0	3.987	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	60	15	-	-	-	64	69	4.8	2.9	192.213	F
				B	2	0.50	-	-	-	2	2	0.1	0.1	201.897	F
				C	359	90	-	-	-	376	392	26.0	17.2	191.582	F
				D	602	151	-	-	-	639	659	43.8	28.7	192.868	F
C	Entry	1	1	A	225	56	1167	694	0.324	235	242	6.4	2.0	49.247	E
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	338	84	1167	695	0.486	353	360	10.6	3.7	57.252	F
		2	A	300	75	1167	700	0.429	314	321	8.3	2.6	50.188	F	
			B	254	63	1167	696	0.365	266	278	7.8	2.5	52.441	F	
			C	2	0.48	426	256	0.008	2	2	0.1	0.0	55.076	F	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry	1	1	A	134	34	1055	864	0.155	134	144	0.7	0.4	11.516	B
				B	442	110	1055	866	0.510	441	452	2.2	1.3	11.394	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	266	66	1055	867	0.306	266	272	0.9	0.5	6.739	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	1	A	133	33	-	-	-	134	143	1.5	0.1	9.553	A
				B	438	110	-	-	-	442	449	4.3	0.4	9.281	A
				C	264	66	-	-	-	266	270	2.3	0.2	8.580	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

## 18:00 - 18:15

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	204	51	1098	706	0.289	204	205	0.6	0.4	7.585	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	619	155	1098	704	0.879	712	703	185.0	164.5	794.171	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	49	12	1098	706	0.069	62	62	16.9	14.2	808.255	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	125	31	1098	704	0.178	144	140	38.3	33.5	800.984	F		
				D	427	107	1098	704	0.606	492	487	134.2	120.8	812.703	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	331	83	1152	1004	0.330	331	347	2.0	1.5	18.287	C		
				D	561	140	1152	1002	0.559	563	579	3.3	2.7	18.107	C		
			2	A	58	14	1152	1009	0.057	58	61	0.1	0.1	3.892	A		
				B	1	0.36	420	379	0.004	1	2	0.0	0.0	4.277	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	53	13	-	-	-	58	61	2.9	1.1	94.916	F	
					B	1	0.31	-	-	-	1	2	0.1	0.0	118.570	F	
					C	298	74	-	-	-	331	345	17.2	6.3	101.331	F	
					D	508	127	-	-	-	561	576	28.7	10.1	98.541	F	
C	Entry	1	1	A	204	51	1167	733	0.278	203	207	2.0	0.7	13.273	B		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	287	72	1167	727	0.395	285	292	3.7	1.3	18.089	C		
			2	A	234	58	1167	732	0.319	233	244	2.6	0.7	14.236	B		
				B	221	55	1167	728	0.304	220	226	2.5	0.9	16.267	C		
				C	1	0.27	340	211	0.005	1	1	0.0	0.0	13.660	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	117	29	1055	946	0.123	116	115	0.4	0.3	7.745	A		
				B	367	92	1055	947	0.387	366	373	1.3	0.8	7.890	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	217	54	1055	947	0.229	218	221	0.5	0.3	5.292	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	1	A	117	29	-	-	-	117	114	0.1	0.0	0.918	A	
					B	367	92	-	-	-	367	371	0.4	0.1	0.973	A	
					C	217	54	-	-	-	217	220	0.2	0.0	0.779	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

Junctions 10
ARCADY 10 - Roundabout Module
Version: 10.0.0.1499 © Copyright TRL Software Limited, 2021
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**Filename:** JUNCTION 1 - Lane Sim AM Mitigation 2.j10

**Path:** J:\48559 Crawley Transport Study\Transport\Working Documents\Junction Modelling\Junction Models\JUNCTION 1

**Report generation date:** 29/04/2021 10:33:16

»2035 Scenario 2, AM

»2035 Scenario 3, AM

**Summary of junction performance**

AM					
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
[Lane Simulation] - 2035 Scenario 2					
Arm A	D5	3.8	13.09		B
Arm B		3.4	9.00		A
Arm C		81.3	132.99		F
Arm D		8.1	28.27		D
[Lane Simulation] - 2035 Scenario 3					
Arm A	D7	4.5	13.56		B
Arm B		5.3	13.70		B
Arm C		135.0	225.78		F
Arm D		5.4	15.91		C

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.

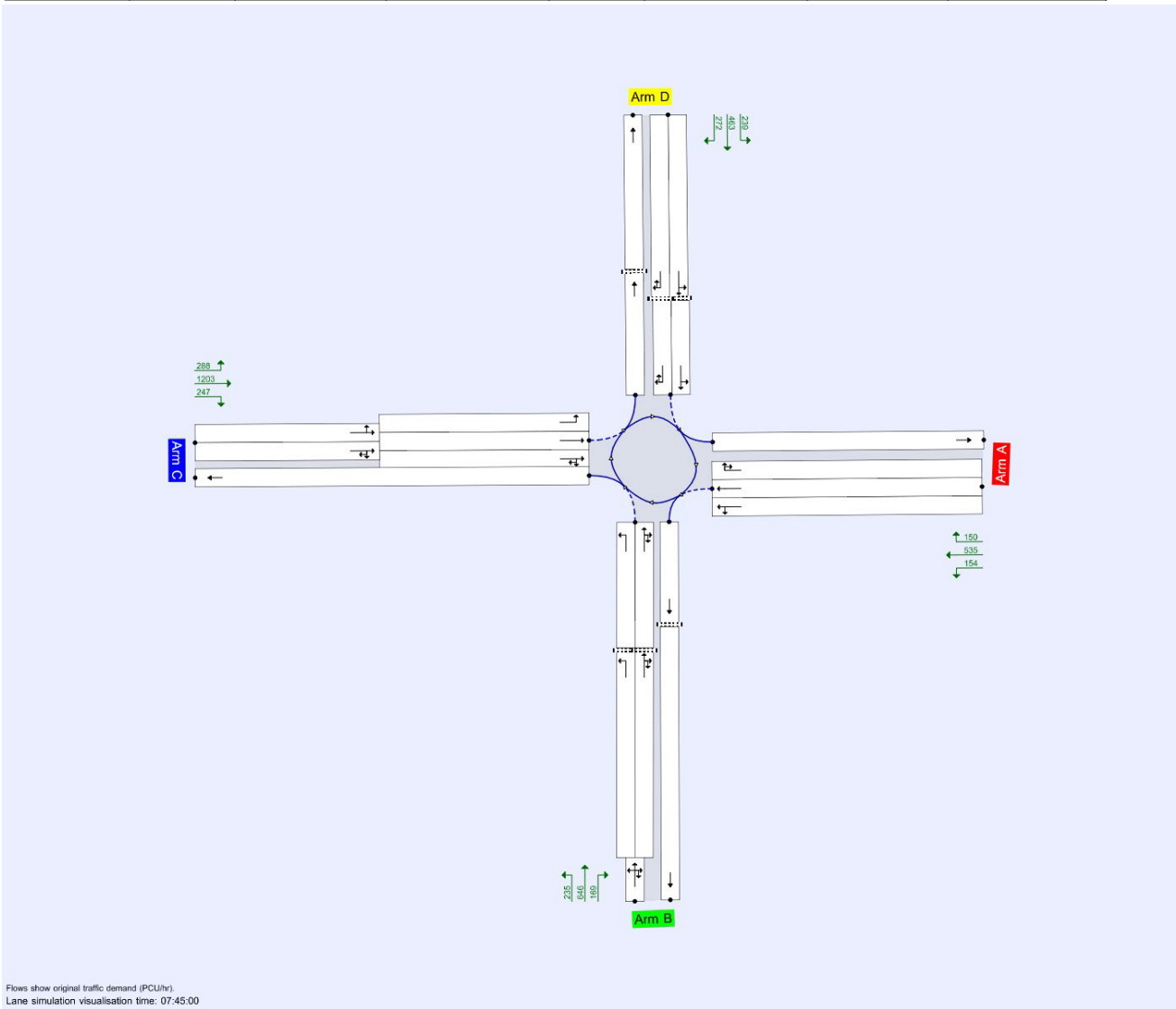
**File summary**

**File Description**

<b>Title</b>	Ifield Roundabout - Base
<b>Location</b>	Crewley
<b>Site number</b>	1
<b>Date</b>	31/03/2021
<b>Version</b>	V1
<b>Status</b>	(new file)
<b>Identifier</b>	001
<b>Client</b>	
<b>Jobnumber</b>	48559
<b>Enumerator</b>	CORP\rycox
<b>Description</b>	

**Units**

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



Flows show original traffic demand (PCU/hr)  
Lane simulation visualisation time: 07:45:00

The junction diagram reflects the last run of Junctions.

**Analysis Options**

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

**Lane Simulation options**

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	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	-1	3	1	60	✓			558106183	203	189.38

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:45	09:15	15	✓
D3	2035 Ref	AM	ONE HOUR	07:45	09:15	15	✓
D5	2035 Scenario 2	AM	ONE HOUR	07:45	09:15	15	✓
D7	2035 Scenario 3	AM	ONE HOUR	07:45	09:15	15	✓

### Analysis Set Details

ID	Use Lane Simulation	Include in report	Use specific Demand Set (s)	Specific Demand Set (s)	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	✓	✓	D5, D7	100.000	100.000

# 2035 Scenario 2, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	60.18	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	60.18	F

## Arms

### Arms

Arm	Name	Description	No give-way line
A	A23 Crawley Avenue East		
B	Ifield Avenue South		
C	A23 Crawley Avenue West		
D	Ifield Avenue North		

### 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
A	10.68	11.23	1.8	18.4	32.0	31.0		
B	3.50	7.96	100.0	60.0	32.0	21.0		
C	7.20	10.50	60.0	35.8	32.0	39.0		
D	7.00	8.38	10.0	999.0	32.0	10.0		

### Pelican/Puffin Crossings

Arm	Space between crossing and junc. entry (Signalised) (PCU)	Vehicles queueing on exit (Signalised) (PCU)	Amber time preceding red (s)	Amber time regarded as green (s)	Time from traffic red start to green man start (s)	Time period green man shown (s)	Clearance Period (s)	Traffic minimum green (s)
B	12.00	5.00	3.00	2.90	1.00	6.00	6.00	7.00
D	12.00	6.00	3.00	2.90	1.00	6.00	6.00	7.00

## Slope / Intercept / Capacity

### Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A	0.978	3294
B	0.815	2386
C	0.918	3003
D	0.895	2694

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

### Arm Capacity Adjustments

Arm	Type	Reason	Percentage capacity adjustment (%)
A	Percentage		80.00
B	Percentage		170.00
C	Percentage		109.00
D	Percentage		153.00

### Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
A	Evenly split	10.00
B	Evenly split	10.00
C	Evenly split	10.00
D	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
A	Entry	1	1	B, C		Infinity			0	99999	
			2	C		Infinity			0	99999	
			3	A, D		Infinity			0	99999	
	Exit	1	1			Infinity					
B	Entry	1	1	C	✓	6.00			0	99999	
			2	A, B, D	✓	6.00			0	99999	
		2	1	(C)	✓	10.00					
			2	(A, B, D)	✓	10.00					
	3	1	((A, B, C, D))		Infinity						
	Exit	1	1		✓	5.00					
2		1			Infinity						
C	Entry	1	1	D	✓	10.00			0	99999	
			2	A	✓	10.00			0	99999	
			3	A, B, C	✓	10.00			0	99999	
		2	1	(A, D)		Infinity					
	2		(A, B, C)		Infinity						
	Exit	1	1			Infinity					
D	Entry	1	1	A, B	✓	4.50			0	99999	
			2	C, D	✓	4.50			0	99999	
		2	1	(A, B)		Infinity					
			2	(C, D)		Infinity					
	Exit	1	1		✓	6.00					
		2	1			Infinity					

### Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
A	Entry	1	1	0.326	1098
			2	0.326	1098
			3	0.326	1098
B	Entry	1	1	0.408	1193
			2	0.408	1193
C	Entry	1	1	0.306	1001
			2	0.306	1001
			3	0.306	1001
D	Entry	1	1	0.447	1347
			2	0.447	1347

### Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			A	B	C	D
A	1	1		✓	✓	
		2			✓	
		3	✓			✓
B	1	1			✓	
		2	✓	✓		✓
	2	1			✓	
		2	✓	✓		✓
	3	1	✓	✓	✓	✓
C	1	1				✓
		2	✓			
		3	✓	✓	✓	
	2	1	✓			✓
		2	✓	✓	✓	
D	1	1	✓	✓		
		2			✓	✓
	2	1	✓	✓		
		2			✓	✓

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2035 Scenario 2	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	894	100.000
B		ONE HOUR	✓	1053	100.000
C		ONE HOUR	✓	1738	100.000
D		ONE HOUR	✓	976	100.000



### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

From	To			
	A	B	C	D
A	55	154	535	150
B	169	3	235	646
C	1203	247	0	288
D	239	463	272	2

## Vehicle Mix

### Heavy Vehicle Percentages

From	To			
	A	B	C	D
A	8	7	28	9
B	4	0	4	6
C	4	3	0	4
D	6	0	4	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	13.09	3.8	B	821	1232
B	9.00	3.4	A	966	1449
C	132.99	81.3	F	1604	2405
D	28.27	8.1	D	898	1347

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	674	169	657		673	671	1255	0.0	1.7	8.121	A
B	795	199	733	4.52	794	791	637	0.0	1.0	4.158	A
C	1300	325	711		1303	1302	788	0.0	2.8	7.895	A
D	733	183	1235	4.52	731	733	821	0.0	1.2	4.957	A

**08:00 - 08:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	813	203	820		813	803	1501	1.7	2.4	9.357	A
B	961	240	891	5.39	960	946	776	1.0	1.3	5.250	A
C	1558	390	847		1557	1544	955	2.8	5.4	12.517	B
D	876	219	1485	5.39	877	874	975	1.2	1.9	7.381	A

**08:15 - 08:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	984	246	971		985	974	1736	2.4	3.6	12.473	B
B	1152	288	1083	6.61	1158	1153	914	1.3	3.0	8.830	A
C	1928	482	1032		1768	1747	1146	5.4	46.0	56.078	F
D	1081	270	1687	6.61	1075	1050	1189	1.9	6.8	18.319	C

**08:30 - 08:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	986	246	991		985	982	1763	3.6	3.8	13.087	B
B	1159	290	1084	6.61	1156	1156	942	3.0	3.4	9.001	A
C	1923	481	1050		1799	1782	1151	46.0	81.3	132.995	F
D	1073	268	1721	6.61	1093	1079	1177	6.8	8.1	28.274	D

**08:45 - 09:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	805	201	864		803	807	1618	3.8	2.4	9.973	A
B	944	236	877	5.39	944	951	834	3.4	1.5	5.591	A
C	1590	397	846		1747	1813	936	81.3	22.7	90.117	F
D	885	221	1648	5.39	885	901	992	8.1	3.5	17.123	C

**09:00 - 09:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	666	166	692		669	677	1257	2.4	1.5	8.182	A
B	785	196	730	4.52	786	789	665	1.5	0.9	4.151	A
C	1321	330	700		1327	1391	783	22.7	2.9	14.375	B
D	740	185	1256	4.52	736	745	812	3.5	1.4	6.706	A

## Lane Results

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

### Lanes: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	292		707	0.413	293	293	0.0	0.7	8.542	A
			2	C	224		707	0.317	222	223	0.0	0.6	7.943	A
			3	A, D	158		707	0.223	157	156	0.0	0.4	7.614	A
	Exit	1	1		1255				1255	1255	0.0	0.0	0.000	A
B	Entry	1	1	C	181		1520	0.119	181	176	0.0	0.2	2.801	A
			2	A, B, D	614		1520	0.404	613	615	0.0	0.8	4.341	A
		2	1	(C)	181	4.52			181	176	0.0	0.0	0.083	A
			2	(A, B, D)	614	4.52			614	619	0.0	0.0	0.187	A
	3	1	((A, B, C, D))	795				795	795	0.0	0.0	0.000	A	
	Exit	1	1		637	4.52			637	643	0.0	0.0	0.124	A
2	1		637				637	643	0.0	0.0	0.000	A		
C	Entry	1	1	D	218		854	0.256	217	216	0.0	0.4	5.928	A
			2	A	506		854	0.592	507	510	0.0	1.1	7.966	A
			3	A, B, C	576		854	0.675	578	577	0.0	1.3	8.563	A
		2	1	(A, D)	676				676	675	0.0	0.0	0.000	A
			2	(A, B, C)	624				624	639	0.0	0.0	0.003	A
	Exit	1	1		788				788	781	0.0	0.0	0.000	A
D	Entry	1	1	A, B	524		1216	0.431	524	527	0.0	0.8	5.047	A
			2	C, D	208		1216	0.171	207	206	0.0	0.2	3.700	A
		2	1	(A, B)	525	4.52			524	530	0.0	0.1	0.352	A
			2	(C, D)	208	4.52			208	207	0.0	0.0	0.100	A
	Exit	1	1		820	4.52			821	819	0.0	0.0	0.176	A
		2	1		821				821	819	0.0	0.0	0.000	A

## 08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	354		664	0.533	354	347	0.7	1.1	10.018	B
			2	C	276		664	0.415	276	270	0.6	0.8	9.118	A
			3	A, D	183		664	0.275	183	186	0.4	0.5	8.524	A
	Exit	1	1		1501				1501	1486	0.0	0.0	0.000	A
B	Entry	1	1	C	216		1411	0.153	216	212	0.2	0.2	3.040	A
			2	A, B, D	745		1411	0.528	744	734	0.8	1.1	5.588	A
		2	1	(C)	216	5.39			216	212	0.0	0.0	0.053	A
			2	(A, B, D)	745	5.39			745	735	0.0	0.0	0.289	A
	3	1	((A, B, C, D))	961				961	947	0.0	0.0	0.000	A	
	Exit	1	1		776	5.39			776	770	0.0	0.0	0.087	A
2		1		776				776	770	0.0	0.0	0.000	A	
C	Entry	1	1	D	252		808	0.311	253	256	0.4	0.4	7.005	A
			2	A	632		808	0.781	629	620	1.1	2.3	12.889	B
			3	A, B, C	674		808	0.834	675	668	1.3	2.5	13.886	B
		2	1	(A, D)	801				801	802	0.0	0.1	0.127	A
	2		(A, B, C)	757				757	752	0.0	0.1	0.192	A	
	Exit	1	1		955				955	938	0.0	0.0	0.000	A
D	Entry	1	1	A, B	629		1044	0.602	629	626	0.8	1.4	7.210	A
			2	C, D	248		1044	0.237	248	248	0.2	0.3	4.550	A
		2	1	(A, B)	628	5.39			629	628	0.1	0.2	1.220	A
			2	(C, D)	248	5.39			248	248	0.0	0.0	0.101	A
	Exit	1	1		975	5.39			975	974	0.0	0.0	0.129	A
		2	1		975				975	974	0.0	0.0	0.000	A

## 08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	414		625	0.662	414	412	1.1	1.6	13.675	B
			2	C	341		625	0.546	341	337	0.8	1.4	12.413	B
			3	A, D	229		625	0.367	230	226	0.5	0.7	10.531	B
	Exit	1	1		1736				1736	1707	0.0	0.0	0.000	A
B	Entry	1	1	C	255		1278	0.200	256	256	0.2	0.3	3.580	A
			2	A, B, D	899		1278	0.704	902	897	1.1	2.2	8.562	A
		2	1	(C)	255	6.61			255	256	0.0	0.0	0.066	A
			2	(A, B, D)	897	6.61			899	902	0.0	0.5	1.618	A
	3	1	((A, B, C, D))	1152				1152	1160	0.0	0.0	0.103	A	
	Exit	1	1		915	6.61			914	906	0.0	0.1	0.147	A
2		1		914				914	906	0.0	0.0	0.000	A	
C	Entry	1	1	D	306		746	0.410	308	301	0.4	0.8	9.110	A
			2	A	742		746	0.994	734	721	2.3	9.1	35.297	E
			3	A, B, C	732		746	0.981	726	725	2.5	9.2	36.534	E
		2	1	(A, D)	1185				1114	1052	0.1	12.7	18.199	C
	2		(A, B, C)	743				666	751	0.1	14.1	31.678	D	
	Exit	1	1		1146				1146	1134	0.0	0.0	0.000	A
D	Entry	1	1	A, B	766		906	0.845	765	750	1.4	2.7	11.548	B
			2	C, D	311		906	0.344	309	300	0.3	0.6	6.088	A
		2	1	(A, B)	769	6.61			766	756	0.2	3.4	11.276	B
			2	(C, D)	312	6.61			311	301	0.0	0.0	0.244	A
	Exit	1	1		1189	6.61			1189	1177	0.0	0.1	0.197	A
		2	1		1189				1189	1177	0.0	0.0	0.000	A

## 08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	416		620	0.671	417	415	1.6	1.7	14.730	B
			2	C	345		620	0.557	345	344	1.4	1.3	13.006	B
			3	A, D	225		620	0.362	222	223	0.7	0.9	10.392	B
	Exit	1	1		1763				1763	1748	0.0	0.0	0.000	A
B	Entry	1	1	C	256		1277	0.200	255	259	0.3	0.3	3.734	A
			2	A, B, D	901		1277	0.705	901	897	2.2	2.5	8.912	A
		2	1	(C)	256	6.61			256	259	0.0	0.0	0.066	A
			2	(A, B, D)	902	6.61			901	898	0.5	0.6	1.543	A
		3	1	((A, B, C, D))	1159				1158	1157	0.0	0.1	0.049	A
	Exit	1	1		942	6.61			942	928	0.1	0.0	0.137	A
		2	1		942				942	928	0.0	0.0	0.000	A
C	Entry	1	1	D	303		741	0.410	304	302	0.8	0.9	10.080	B
			2	A	750		741	1.013	750	746	9.1	9.7	45.350	E
			3	A, B, C	744		741	1.005	744	735	9.2	9.7	46.528	E
		2	1	(A, D)	1261				1200	1176	12.7	29.6	67.234	F
			2	(A, B, C)	662				598	611	14.1	31.4	140.595	F
	Exit	1	1		1151				1151	1150	0.0	0.0	0.000	A
D	Entry	1	1	A, B	788		883	0.892	789	777	2.7	3.0	13.482	B
			2	C, D	304		883	0.344	304	302	0.6	0.5	6.246	A
		2	1	(A, B)	769	6.61			788	778	3.4	4.6	23.018	C
			2	(C, D)	304	6.61			304	302	0.0	0.1	0.292	A
	Exit	1	1		1177	6.61			1177	1173	0.1	0.1	0.224	A
		2	1		1177				1177	1173	0.0	0.0	0.000	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	343		653	0.526	343	345	1.7	1.1	10.892	B
			2	C	274		653	0.419	273	274	1.3	0.9	9.777	A
			3	A, D	188		653	0.287	187	188	0.9	0.4	8.662	A
	Exit	1	1		1618				1618	1683	0.0	0.0	0.000	A
B	Entry	1	1	C	215		1421	0.152	215	212	0.3	0.2	3.160	A
			2	A, B, D	729		1421	0.513	730	739	2.5	1.2	5.846	A
		2	1	(C)	215	5.39			215	212	0.0	0.0	0.073	A
			2	(A, B, D)	728	5.39			729	734	0.6	0.1	0.443	A
		3	1	((A, B, C, D))	944				944	944	0.1	0.0	0.019	A
	Exit	1	1		834	5.39			834	844	0.0	0.0	0.168	A
C	Entry	1	1	D	281		809	0.348	282	290	0.9	0.5	8.422	A
			2	A	699		809	0.864	718	754	9.7	5.1	36.029	E
			3	A, B, C	728		809	0.901	747	769	9.7	5.4	36.316	E
		2	1	(A, D)	945				1000	1101	29.6	5.2	46.791	E
			2	(A, B, C)	645				709	675	31.4	6.5	81.931	F
	Exit	1	1		936				936	934	0.0	0.0	0.000	A
D	Entry	1	1	A, B	641		933	0.687	641	658	3.0	1.9	11.708	B
			2	C, D	244		933	0.261	244	243	0.5	0.5	5.892	A
		2	1	(A, B)	641	5.39			641	653	4.6	1.1	9.643	A
			2	(C, D)	244	5.39			244	243	0.1	0.0	0.160	A
	Exit	1	1		992	5.39			992	1011	0.1	0.1	0.159	A
		2	1		992				992	1011	0.0	0.0	0.000	A

## 09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	294		698	0.421	296	297	1.1	0.7	8.863	A
			2	C	223		698	0.320	223	227	0.9	0.4	7.950	A
			3	A, D	149		698	0.213	149	153	0.4	0.3	7.273	A
	Exit	1	1		1257				1257	1314	0.0	0.0	0.000	A
B	Entry	1	1	C	177		1522	0.117	177	175	0.2	0.2	2.848	A
			2	A, B, D	608		1522	0.399	609	614	1.2	0.7	4.372	A
		2	1	(C)	177	4.52			177	174	0.0	0.0	0.060	A
			2	(A, B, D)	608	4.52			608	612	0.1	0.0	0.142	A
	3	1	((A, B, C, D))	785				785	787	0.0	0.0	0.000	A	
	Exit	1	1		665	4.52			665	678	0.0	0.0	0.105	A
2		1		665				665	678	0.0	0.0	0.000	A	
C	Entry	1	1	D	219		858	0.256	220	223	0.5	0.3	6.134	A
			2	A	519		858	0.606	520	556	5.1	1.2	12.538	B
			3	A, B, C	585		858	0.682	587	613	5.4	1.5	13.117	B
		2	1	(A, D)	675				676	717	5.2	0.0	3.529	A
	2		(A, B, C)	647				647	642	6.5	0.0	3.627	A	
	Exit	1	1		783				783	788	0.0	0.0	0.000	A
D	Entry	1	1	A, B	533		1201	0.443	531	539	1.9	1.0	6.532	A
			2	C, D	206		1201	0.172	205	206	0.5	0.3	4.292	A
		2	1	(A, B)	534	4.52			533	536	1.1	0.1	1.134	A
			2	(C, D)	206	4.52			206	205	0.0	0.0	0.074	A
	Exit	1	1		812	4.52			812	822	0.1	0.0	0.103	A
		2	1		812				812	822	0.0	0.0	0.000	A

## Lane movements: Main Results for each time segment

## 07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	113	28	1098	708	0.159	114	114	0.0	0.2	9.208	A	
				C	179	45	1098	707	0.254	180	178	0.0	0.4	8.034	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	224	56	1098	705	0.318	222	223	0.0	0.6	7.943	A	
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
			3	A	42	10	1098	707	0.059	42	42	0.0	0.1	7.499	A	
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				D	116	29	1098	708	0.164	116	115	0.0	0.3	7.657	A	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	181	45	1193	1515	0.120	181	176	0.0	0.2	2.801	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	126	31	1193	1516	0.083	125	127	0.0	0.2	4.314	A	
				B	2	0.52	488	627	0.003	2	2	0.0	0.0	4.827	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	487	122	1193	1520	0.320	486	487	0.0	0.6	4.345	A	
			1	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	181	45	-	-	-	181	176	0.0	0.0	0.083	A	
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A

C	Entry	2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			A	126	31	-	-	-	126	127	0.0	0.0	0.195	A		
			B	2	0.52	-	-	-	2	2	0.0	0.0	0.460	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		D	486	122	-	-	-	487	489	0.0	0.0	0.184	A			
		3	1	A	126	31	-	-	-	126	127	0.0	0.0	0.000	A	
				B	2	0.52	-	-	-	2	2	0.0	0.0	0.000	A	
				C	181	45	-	-	-	181	176	0.0	0.0	0.000	A	
				D	486	122	-	-	-	486	489	0.0	0.0	0.000	A	
		C	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D	218				55	1001	854	0.256	217	216	0.0	0.4	5.928	A		
2	A			506	126	1001	853	0.593	507	510	0.0	1.1	7.966	A		
	B			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A			400	100	1001	853	0.469	400	393	0.0	0.8	7.815	A		
	B			177	44	1001	854	0.207	178	183	0.0	0.5	10.149	B		
	C			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	A	458	114	-	-	-	458	458	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	218	55	-	-	-	218	217	0.0	0.0	0.000	A		
		2	A	447	112	-	-	-	447	453	0.0	0.0	0.000	A		
			B	177	44	-	-	-	177	185	0.0	0.0	0.009	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	A	181	45	1347	1219	0.148	180	183	0.0	0.3	5.215	A		
			B	343	86	1347	1217	0.282	343	344	0.0	0.5	4.962	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	206	51	1347	1216	0.169	205	205	0.0	0.2	3.708	A		
			D	2	0.46	418	381	0.005	2	2	0.0	0.0	2.846	A		
2	A	181	45	-	-	-	181	184	0.0	0.0	0.360	A				
	B	344	86	-	-	-	343	346	0.0	0.1	0.348	A				
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	C	206	51	-	-	-	206	206	0.0	0.0	0.101	A				
	D	2	0.46	-	-	-	2	2	0.0	0.0	0.033	A				

## 08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	137	34	1098	667	0.206	137	137	0.2	0.5	11.072	B
				C	218	54	1098	666	0.326	217	210	0.4	0.6	9.192	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	276	69	1098	665	0.415	276	270	0.6	0.8	9.118	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		1	A	50	13	1098	665	0.076	51	49	0.1	0.1	8.477	A	

		3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	133	33	1098	670	0.198	132	137	0.3	0.4	8.541	A		
B	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	216	54	1193	1412	0.153	216	212	0.2	0.2	3.040	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	154	38	1193	1413	0.109	154	153	0.2	0.3	5.595	A		
			B	3	0.69	552	654	0.004	3	2	0.0	0.0	5.526	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	588	147	1193	1412	0.417	588	578	0.6	0.8	5.587	A		
		1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	216	54	-	-	-	216	212	0.0	0.0	0.053	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	154	38	-	-	-	154	154	0.0	0.0	0.291	A		
			B	3	0.69	-	-	-	3	2	0.0	0.0	0.374	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	589	147	-	-	-	588	579	0.0	0.0	0.288	A		
		3	1	A	154	38	-	-	-	154	154	0.0	0.0	0.000	A	
				B	3	0.69	-	-	-	3	2	0.0	0.0	0.000	A	
				C	216	54	-	-	-	216	212	0.0	0.0	0.000	A	
				D	589	147	-	-	-	589	579	0.0	0.0	0.000	A	
		C	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	252	63	1001	806	0.312	253	256	0.4	0.4	7.005	A
2	A			632	158	1001	806	0.784	629	620	1.1	2.3	12.889	B		
	B			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A			453	113	1001	809	0.560	453	450	0.8	1.6	12.920	B		
	B			221	55	1001	807	0.274	222	218	0.5	1.0	15.858	C		
	C			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
1	1			A	549	137	-	-	-	549	546	0.0	0.0	0.145	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	252	63	-	-	-	252	256	0.0	0.0	0.090	A	
	2			A	535	134	-	-	-	535	532	0.0	0.0	0.147	A	
				B	222	55	-	-	-	221	220	0.0	0.0	0.299	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
D	Entry			1	A	214	53	1347	1046	0.204	215	214	0.3	0.4	7.329	A
					B	415	104	1347	1044	0.397	414	412	0.5	0.9	7.152	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	246	62	1347	1045	0.235	246	246	0.2	0.3	4.556	A		
			D	2	0.47	524	420	0.005	2	2	0.0	0.0	3.925	A		
		1	A	213	53	-	-	-	214	214	0.0	0.1	1.283	A		
			B	415	104	-	-	-	415	414	0.1	0.1	1.190	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
C	246	62	-	-	-	246	246	0.0	0.0	0.100	A					



				D	2	0.47	-	-	-	2	2	0.0	0.0	0.167	A
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## 08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	170	43	1098	625	0.273	171	168	0.5	0.7	15.251	C		
				C	243	61	1098	626	0.389	243	244	0.6	0.9	12.380	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	341	85	1098	624	0.547	341	337	0.8	1.4	12.413	B		
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
			3	A	62	16	1098	620	0.100	63	60	0.1	0.1	10.553	B		
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				D	167	42	1098	627	0.267	167	166	0.4	0.6	10.523	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	255	64	1193	1279	0.199	256	256	0.2	0.3	3.580	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	187	47	1193	1279	0.147	188	186	0.3	0.5	8.533	A		
				B	2	0.59	676	742	0.003	2	3	0.0	0.0	8.329	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	709	177	1193	1278	0.555	712	708	0.8	1.7	8.571	A		
			2	1	A	0	0	0	0	0.000	0	0.000	0	0.0	0.000	A	
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	C	255	64	-	-	-	255	256	0.0	0.0	0.066	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		3	1	A	187	47	-	-	-	187	187	0.0	0.1	1.627	A		
				B	2	0.56	-	-	-	2	3	0.0	0.0	2.091	A		
			2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	708	177	-	-	-	709	712	0.0	0.4	1.614	A		
		C	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						D	306	77	1001	745	0.411	308	301	0.4	0.8	9.110	A
					2	A	742	185	1001	745	0.995	734	721	2.3	9.1	35.297	E
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
3	A				496	124	1001	746	0.665	493	488	1.6	6.3	36.267	E		
	B				236	59	1001	742	0.318	233	237	1.0	2.9	37.084	E		
	C				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1	A	859	215	-	-	-	808	749	0.0	9.4	18.927	C				
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		D	326	81	-	-	-	306	303	0.0	3.3	16.386	C				
	2	A	473	118	-	-	-	430	506	0.0	7.8	26.689	D				
		B	270	67	-	-	-	236	245	0.0	6.3	41.548	E				
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				A	256	64	1347	906	0.283	258	252	0.4	0.9	11.748	B		

D	Entry	1	1	B	509	127	1347	905	0.563	508	498	0.9	1.8	11.453	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	309	77	1347	909	0.339	307	298	0.3	0.6	6.089	A
		2	1	D	3	0.68	591	408	0.007	3	2	0.0	0.0	5.925	A
				A	259	65	-	-	-	256	254	0.1	1.2	11.413	B
				B	511	128	-	-	-	509	502	0.1	2.2	11.210	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	309	77	-	-	-	309	299	0.0	0.0	0.243	A
D	3	0.68	-	-	-	3	2	0.0	0.0	0.320	A				

## 08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	168	42	1098	620	0.271	168	168	0.7	0.9	16.459	C	
				C	248	62	1098	619	0.400	250	247	0.9	0.8	13.313	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	345	86	1098	619	0.558	345	344	1.4	1.3	13.006	B	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	61	15	1098	620	0.098	60	60	0.1	0.2	10.513	B	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	164	41	1098	621	0.264	163	164	0.6	0.6	10.348	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	256	64	1193	1274	0.201	255	259	0.3	0.3	3.734	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	190	47	1193	1278	0.148	190	188	0.5	0.4	8.867	A	
				B	3	0.81	699	741	0.004	3	3	0.0	0.0	9.092	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	708	177	1193	1277	0.554	707	705	1.7	2.0	8.924	A	
			2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	C	256	64	-	-	-	256	259	0.0	0.0	0.066	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	1	A	190	47	-	-	-	190	188	0.1	0.1	1.577	A	
				B	3	0.81	-	-	-	3	3	0.0	0.0	1.866	A	
			2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	709	177	-	-	-	708	706	0.4	0.4	1.532	A	
		1	1	1	A	190	47	-	-	-	190	188	0.0	0.0	0.028	A
					B	3	0.81	-	-	-	3	3	0.0	0.0	0.153	A
					C	256	64	-	-	-	256	259	0.0	0.0	0.037	A
					D	710	177	-	-	-	709	707	0.0	0.1	0.059	A
				2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	303	76	1001	744	0.408	304	302	0.8	0.9	10.080	B
A	750				187	1001	740	1.013	750	746	9.1	9.7	45.350	E		
B	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
C	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		

C	Entry	3	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	496	124	1001	739	0.671	495	492	6.3	6.5	46.480	E	
			B	249	62	1001	744	0.334	249	243	2.9	3.2	46.625	E	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	A	938	234	-	-	-	896	873	9.4	21.9	67.402	F
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	323	81	-	-	-	303	302	3.3	7.7	66.751	F
			2	A	389	97	-	-	-	350	367	7.8	17.8	132.709	F
				B	273	68	-	-	-	249	244	6.3	13.7	152.218	F
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	1	A	267	67	1347	887	0.301	267	263	0.9	1.1	13.812	B
				B	521	130	1347	885	0.589	522	514	1.8	1.9	13.323	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	301	75	1347	887	0.340	302	300	0.6	0.5	6.245	A
				D	2	0.59	677	449	0.005	2	2	0.0	0.0	6.399	A
		2	1	A	262	65	-	-	-	267	264	1.2	1.6	23.226	C
				B	507	127	-	-	-	521	514	2.2	3.0	22.918	C
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	302	76	-	-	-	301	299	0.0	0.1	0.294	A
				D	2	0.59	-	-	-	2	2	0.0	0.0	0.022	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	136	34	1098	653	0.208	137	139	0.9	0.4	12.213	B
				C	207	52	1098	654	0.317	206	206	0.8	0.7	9.840	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	274	68	1098	654	0.419	273	274	1.3	0.9	9.777	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			3	A	53	13	1098	652	0.082	53	50	0.2	0.1	8.531	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	134	34	1098	652	0.206	134	137	0.6	0.3	8.711	A
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	215	54	1193	1419	0.152	215	212	0.3	0.2	3.160	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	151	38	1193	1421	0.106	151	154	0.4	0.2	5.942	A
				B	4	1	664	787	0.005	4	3	0.0	0.0	5.183	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	575	144	1193	1422	0.404	575	582	2.0	1.0	5.824	A
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	215	54	-	-	-	215	212	0.0	0.0	0.073	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
A	150	38	-	-	-	151	153	0.1	0.0	0.418	A				

C	Entry	2	B	4	1	-	-	-	4	3	0.0	0.0	0.507	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	574	143	-	-	-	575	578	0.4	0.1	0.450	A		
		3	1	A	150	38	-	-	-	150	153	0.0	0.0	0.019	A	
				B	4	1	-	-	-	4	3	0.0	0.0	0.000	A	
				C	215	54	-	-	-	215	212	0.0	0.0	0.013	A	
	D	574	143	-	-	-	574	576	0.1	0.0	0.021	A				
	D	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	281	70	1001	811	0.347	282	290	0.9	0.5	8.422	A	
				2	A	699	175	1001	809	0.864	718	754	9.7	5.1	36.029	E
B					0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
C			0		0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
3			1	A	471	118	1001	809	0.582	481	501	6.5	3.3	35.629	E	
				B	258	64	1001	809	0.319	266	268	3.2	2.1	37.575	E	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	679	170	-	-	-	719	812	21.9	4.0	48.264	E	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
C				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2			1	D	266	67	-	-	-	281	289	7.7	1.1	42.620	E	
				A	422	106	-	-	-	451	411	17.8	3.0	65.623	F	
				B	223	56	-	-	-	258	264	13.7	3.5	107.430	F	
	2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D	Entry	1	1	A	215	54	1347	930	0.231	215	224	1.1	0.6	11.858	B	
				B	426	107	1347	934	0.457	426	434	1.9	1.3	11.636	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		C		242	61	1347	931	0.260	242	241	0.5	0.5	5.894	A		
		D	2	0.38	498	328	0.005	2	2	0.0	0.0	5.553	A			
		2	1	A	215	54	-	-	-	215	222	1.6	0.4	9.994	A	
				B	426	106	-	-	-	426	431	3.0	0.7	9.471	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	A		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	B		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	C	242	61	-	-	-	242	241	0.1	0.0	0.158	A				
D	2	0.38	-	-	-	2	2	0.0	0.0	0.399	A					

## 09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	115	29	1098	697	0.164	116	115	0.4	0.3	9.836	A
				C	179	45	1098	698	0.257	180	183	0.7	0.4	8.129	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	223	56	1098	697	0.320	223	227	0.9	0.4	7.950	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				A	40	10	1098	700	0.057	40	41	0.1	0.1	7.186	A

B	Entry	3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			D	109	27	1098	700	0.156	110	112	0.3	0.2	7.305	A			
		B	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
					C	177	44	1193	1523	0.116	177	175	0.2	0.2	2.848	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
					A	126	32	1193	1523	0.083	126	126	0.2	0.1	4.382	A	
					B	3	0.65	517	655	0.004	2	2	0.0	0.0	4.722	A	
				2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
					D	479	120	1193	1521	0.315	480	486	1.0	0.6	4.367	A	
					1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
B	0					0	0	0	0.000	0	0	0.0	0.0	0.000	A		
C	177					44	-	-	-	177	174	0.0	0.0	0.060	A		
2	D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	A	126	32	-	-	-	126	126	0.0	0.0	0.116	A					
	B	3	0.65	-	-	-	3	2	0.0	0.0	0.133	A					
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A					
C	Entry	3	D	479	120	-	-	-	479	484	0.1	0.0	0.149	A			
			1	A	126	32	-	-	-	126	126	0.0	0.0	0.000	A		
				B	3	0.65	-	-	-	3	2	0.0	0.0	0.000	A		
				C	177	44	-	-	-	177	174	0.0	0.0	0.000	A		
		C	Entry	1	D	479	120	-	-	-	479	484	0.0	0.0	0.000	A	
					2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						D	219	55	1001	858	0.256	220	223	0.5	0.3	6.134	A
					3	A	519	130	1001	858	0.605	520	556	5.1	1.2	12.538	B
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D	0					0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry				2	A	393	98	1001	856	0.459	394	407	3.3	0.9	11.837	B
						B	191	48	1001	858	0.223	192	205	2.1	0.6	15.651	C
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		D	0	0		0	0	0.000	0	0	0.0	0.0	0.000	A			
		1	A	456	114	-	-	-	456	495	4.0	0.0	3.906	A			
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			D	219	55	-	-	-	219	222	1.1	0.0	2.696	A			
		2	A	456	114	-	-	-	456	443	3.0	0.0	1.982	A			
			B	191	48	-	-	-	191	199	3.5	0.0	7.407	A			
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D	Entry	1	A	177	44	1347	1201	0.148	176	183	0.6	0.3	6.683	A			
			B	355	89	1347	1202	0.295	354	356	1.3	0.7	6.458	A			
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		C		204	51	1347	1202	0.170	203	204	0.5	0.3	4.288	A			
		2	D	2	0.47	471	406	0.005	2	2	0.0	0.0	4.717	A			
			1	A	178	45	-	-	-	177	182	0.4	0.1	1.156	A		
				B	356	89	-	-	-	355	353	0.7	0.1	1.123	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
A	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
B	0	0		0	0	0.000	0	0	0.0	0.0	0.000	A					
D	Entry	2	C	204	51	-	-	-	204	203	0.0	0.0	0.075	A			

				D	2	0.47	-	-	-	2	2	0.0	0.0	0.000	A
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# 2035 Scenario 3, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	91.34	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	91.34	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2035 Scenario 3	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	917	100.000
B		ONE HOUR	✓	1164	100.000
C		ONE HOUR	✓	1740	100.000
D		ONE HOUR	✓	954	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	49	183	535	150
	B	157	3	234	770
	C	1245	247	0	248
	D	197	483	272	2

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	8	7	28	9
	B	4	0	4	6
	C	4	3	0	4
	D	6	0	4	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	13.56	4.5	B	846	1269
B	13.70	5.3	B	1066	1600
C	225.78	135.0	F	1596	2394
D	15.91	5.4	C	875	1312

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	679	170	701		678	681	1214	0.0	1.5	8.059	A
B	894	223	720	4.52	892	881	692	0.0	1.3	4.455	A
C	1296	324	800		1297	1312	781	0.0	2.9	9.037	A
D	720	180	1241	4.52	717	713	897	0.0	1.1	4.981	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	838	210	834		838	824	1482	1.5	2.4	9.896	A
B	1035	259	882	5.39	1035	1043	835	1.3	1.7	6.038	A
C	1563	391	924		1575	1542	937	2.9	7.4	16.459	C
D	845	211	1514	5.39	849	853	1043	1.1	2.0	7.339	A



**08:15 - 08:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1020	255	987		1012	1006	1621	2.4	4.5	13.561	B
B	1287	322	1066	6.61	1284	1270	960	1.7	4.7	11.525	B
C	1923	481	1171		1639	1657	1144	7.4	70.8	85.249	F
D	1054	263	1608	6.61	1046	1036	1257	2.0	4.8	14.378	B

**08:30 - 08:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1013	253	981		1008	1013	1643	4.5	4.1	13.220	B
B	1275	319	1078	6.61	1275	1270	943	4.7	5.3	13.695	B
C	1943	486	1159		1671	1668	1146	70.8	135.0	225.782	F
D	1050	262	1631	6.61	1039	1038	1260	4.8	5.4	15.908	C

**08:45 - 09:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	826	207	893		820	822	1648	4.1	2.7	10.295	B
B	1036	259	877	5.39	1041	1054	867	5.3	1.6	6.804	A
C	1558	389	926		1790	1786	937	135.0	79.8	214.031	F
D	866	216	1709	5.39	862	869	1062	5.4	3.4	12.152	B

**09:00 - 09:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	699	175	736		698	694	1323	2.7	1.8	8.741	A
B	872	218	740	4.52	873	884	732	1.6	1.1	4.462	A
C	1293	323	776		1441	1595	789	79.8	6.4	63.800	F
D	713	178	1385	4.52	719	732	889	3.4	1.3	8.131	A

## Lane Results

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

### Lanes: Main Results for each time segment

07:45 - 08:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	312		695	0.449	312	311	0.0	0.7	8.673	A
			2	C	219		695	0.315	220	222	0.0	0.5	7.905	A
			3	A, D	148		695	0.212	146	147	0.0	0.4	7.055	A
	Exit	1	1		1214				1214	1238	0.0	0.0	0.000	A
B	Entry	1	1	C	181		1529	0.119	182	177	0.0	0.1	2.749	A
			2	A, B, D	712		1529	0.466	710	703	0.0	1.1	4.627	A
		2	1	(C)	181	4.52			181	178	0.0	0.0	0.106	A
			2	(A, B, D)	712	4.52			712	708	0.0	0.1	0.232	A
	3	1	((A, B, C, D))	894				894	886	0.0	0.0	0.000	A	
	Exit	1	1		692	4.52			692	682	0.0	0.0	0.144	A
		2	1		692			692	682	0.0	0.0	0.000	A	
C	Entry	1	1	D	184		824	0.223	185	187	0.0	0.3	5.846	A
			2	A	531		824	0.644	531	535	0.0	1.2	9.145	A
			3	A, B, C	582		824	0.707	581	590	0.0	1.5	9.942	A
		2	1	(A, D)	648				648	661	0.0	0.0	0.000	A
			2	(A, B, C)	648				648	663	0.0	0.0	0.002	A
	Exit	1	1		781				781	782	0.0	0.0	0.000	A
D	Entry	1	1	A, B	513		1212	0.423	510	504	0.0	0.9	5.100	A
			2	C, D	207		1212	0.171	207	209	0.0	0.2	3.830	A
		2	1	(A, B)	513	4.52			513	508	0.0	0.1	0.297	A
			2	(C, D)	207	4.52			207	210	0.0	0.0	0.106	A
	Exit	1	1		896	4.52			897	884	0.0	0.0	0.175	A
		2	1		897				897	884	0.0	0.0	0.000	A

## 08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	B, C	362		661	0.548	363	361	0.7	1.1	10.879	B	
			2	C	291		661	0.440	290	280	0.5	0.8	9.575	A	
			3	A, D	185		661	0.281	185	183	0.4	0.4	8.505	A	
A	Exit	1	1		1482				1482	1463	0.0	0.0	0.000	A	
B	Entry	1	1	C	209		1417	0.147	209	210	0.1	0.2	3.001	A	
			2	A, B, D	824		1417	0.582	826	833	1.1	1.3	6.220	A	
		2	1	(C)	209	5.39			209	210	0.0	0.0	0.039	A	
			2	(A, B, D)	826	5.39			824	834	0.1	0.2	0.565	A	
	B	Entry	3	1	((A, B, C, D))	1035				1035	1045	0.0	0.0	0.008	A
	B	Exit	1	1		835	5.39			835	825	0.0	0.0	0.095	A
B	Exit	2	1		835				835	825	0.0	0.0	0.000	A	
C	Entry	1	1	D	219		783	0.280	220	219	0.3	0.5	6.938	A	
			2	A	662		783	0.846	669	648	1.2	3.0	16.262	C	
			3	A, B, C	684		783	0.873	687	675	1.5	3.5	17.725	C	
		2	1	(A, D)	789				790	787	0.0	0.1	0.672	A	
	2		(A, B, C)	774				775	771	0.0	0.2	1.029	A		
	C	Exit	1	1		937				937	927	0.0	0.0	0.000	A
D	Entry	1	1	A, B	602		1025	0.587	603	610	0.9	1.4	7.166	A	
			2	C, D	246		1025	0.240	246	243	0.2	0.3	4.664	A	
		2	1	(A, B)	600	5.39			602	612	0.1	0.2	1.167	A	
			2	(C, D)	246	5.39			246	243	0.0	0.0	0.093	A	
	D	Exit	1	1		1043	5.39			1043	1046	0.0	0.1	0.148	A
	D	Exit	2	1		1043				1043	1046	0.0	0.0	0.000	A

## 08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	B, C	438		621	0.706	434	433	1.1	2.2	15.672	C	
			2	C	359		621	0.579	355	352	0.8	1.7	13.195	B	
			3	A, D	222		621	0.358	223	221	0.4	0.7	10.211	B	
A	Exit	1	1		1621				1621	1626	0.0	0.0	0.000	A	
B	Entry	1	1	C	263		1290	0.204	263	260	0.2	0.3	3.712	A	
			2	A, B, D	1024		1290	0.794	1022	1010	1.3	3.3	9.885	A	
		2	1	(C)	263	6.61			263	261	0.0	0.0	0.072	A	
			2	(A, B, D)	1025	6.61			1024	1018	0.2	1.0	3.170	A	
	B	Entry	3	1	((A, B, C, D))	1287				1287	1282	0.0	0.1	0.365	A
	B	Exit	1	1		959	6.61			960	948	0.0	0.0	0.160	A
B	Exit	2	1		960				960	948	0.0	0.0	0.000	A	
C	Entry	1	1	D	237		700	0.338	236	246	0.5	0.6	8.852	A	
			2	A	711		700	1.015	708	708	3.0	9.8	41.886	E	
			3	A, B, C	697		700	0.995	694	703	3.5	9.8	43.078	E	
		2	1	(A, D)	1228				1087	1035	0.1	24.7	34.753	D	
	2		(A, B, C)	694				557	675	0.2	25.8	63.827	F		
C	Exit	1	1		1144				1144	1143	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	744		960	0.775	744	734	1.4	2.3	10.705	B	
			2	C, D	302		960	0.315	302	301	0.3	0.5	5.764	A	
		2	1	(A, B)	751	6.61			744	738	0.2	2.1	6.953	A	
			2	(C, D)	302	6.61			302	302	0.0	0.0	0.210	A	
	D	Exit	1	1		1256	6.61			1257	1251	0.1	0.1	0.237	A
	D	Exit	2	1		1257				1257	1251	0.0	0.0	0.000	A

## 08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	439		623	0.705	435	433	2.2	2.0	15.515	C
			2	C	358		623	0.575	356	359	1.7	1.5	12.785	B
			3	A, D	216		623	0.347	218	221	0.7	0.6	9.647	A
	Exit	1	1		1643				1643	1640	0.0	0.0	0.000	A
B	Entry	1	1	C	251		1281	0.196	250	253	0.3	0.3	3.784	A
			2	A, B, D	1021		1281	0.797	1025	1017	3.3	3.0	10.605	B
		2	1	(C)	251	6.61			251	253	0.0	0.0	0.063	A
			2	(A, B, D)	1022	6.61			1021	1016	1.0	1.4	4.206	A
		3	1	((A, B, C, D))	1275				1273	1271	0.1	0.6	1.052	A
	Exit	1	1		944	6.61			943	949	0.0	0.0	0.176	A
		2	1		943				943	949	0.0	0.0	0.000	A
C	Entry	1	1	D	245		704	0.347	245	247	0.6	0.7	10.017	B
			2	A	705		704	1.001	703	709	9.8	10.1	50.289	F
			3	A, B, C	724		704	1.028	723	712	9.8	10.0	50.341	F
		2	1	(A, D)	1257				1119	1119	24.7	56.3	130.502	F
			2	(A, B, C)	686				554	551	25.8	57.8	276.253	F
	Exit	1	1		1146				1146	1142	0.0	0.0	0.000	A
D	Entry	1	1	A, B	735		945	0.778	733	736	2.3	2.6	11.165	B
			2	C, D	307		945	0.325	306	302	0.5	0.5	5.852	A
		2	1	(A, B)	742	6.61			735	738	2.1	2.3	8.665	A
			2	(C, D)	308	6.61			307	302	0.0	0.1	0.234	A
	Exit	1	1		1260	6.61			1260	1258	0.1	0.1	0.302	A
		2	1		1260				1260	1258	0.0	0.0	0.000	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	371		645	0.575	367	367	2.0	1.4	11.448	B
			2	C	278		645	0.431	278	280	1.5	0.9	10.166	B
			3	A, D	176		645	0.273	175	176	0.6	0.4	8.256	A
	Exit	1	1		1648				1648	1652	0.0	0.0	0.000	A
B	Entry	1	1	C	211		1421	0.148	211	210	0.3	0.2	3.090	A
			2	A, B, D	827		1421	0.582	830	844	3.0	1.3	6.788	A
		2	1	(C)	211	5.39			211	210	0.0	0.0	0.057	A
			2	(A, B, D)	826	5.39			827	838	1.4	0.1	0.937	A
		3	1	((A, B, C, D))	1036				1036	1042	0.6	0.0	0.116	A
	Exit	1	1		865	5.39			867	857	0.0	0.0	0.166	A
C	Entry	1	1	D	247		782	0.315	247	252	0.7	0.5	8.759	A
			2	A	763		782	0.976	771	765	10.1	9.0	45.477	E
			3	A, B, C	764		782	0.978	772	769	10.0	9.1	45.503	E
		2	1	(A, D)	1091				1194	1195	56.3	29.4	126.778	F
			2	(A, B, C)	466				580	582	57.8	31.8	281.997	F
	Exit	1	1		937				937	940	0.0	0.0	0.000	A
D	Entry	1	1	A, B	617		891	0.693	617	622	2.6	2.0	10.278	B
			2	C, D	245		891	0.275	245	247	0.5	0.3	5.680	A
		2	1	(A, B)	621	5.39			617	619	2.3	1.1	4.384	A
			2	(C, D)	244	5.39			245	246	0.1	0.0	0.134	A
	Exit	1	1		1062	5.39			1062	1083	0.1	0.0	0.158	A
		2	1		1062				1062	1083	0.0	0.0	0.000	A

## 09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	311		686	0.453	308	311	1.4	0.9	9.520	A
			2	C	232		686	0.339	233	231	0.9	0.5	8.351	A
			3	A, D	156		686	0.227	157	151	0.4	0.3	7.764	A
	Exit	1	1		1323				1323	1437	0.0	0.0	0.000	A
B	Entry	1	1	C	176		1515	0.116	176	178	0.2	0.1	2.785	A
			2	A, B, D	697		1515	0.460	697	706	1.3	1.0	4.705	A
		2	1	(C)	176	4.52			176	178	0.0	0.0	0.045	A
			2	(A, B, D)	696	4.52			697	705	0.1	0.0	0.186	A
		3	1	((A, B, C, D))	872				872	882	0.0	0.0	0.000	A
	Exit	1	1		732	4.52			732	762	0.0	0.0	0.112	A
		2	1		732				732	762	0.0	0.0	0.000	A
C	Entry	1	1	D	191		832	0.229	193	208	0.5	0.3	6.776	A
			2	A	575		832	0.691	597	674	9.0	2.3	28.672	D
			3	A, B, C	624		832	0.751	651	712	9.1	2.3	28.593	D
		2	1	(A, D)	697				740	906	29.4	0.6	36.705	E
			2	(A, B, C)	596				651	634	31.8	1.0	46.789	E
	Exit	1	1		789				789	794	0.0	0.0	0.000	A
D	Entry	1	1	A, B	504		1113	0.453	508	519	2.0	0.9	7.944	A
			2	C, D	210		1113	0.189	211	213	0.3	0.3	5.175	A
		2	1	(A, B)	503	4.52			504	515	1.1	0.2	1.436	A
			2	(C, D)	210	4.52			210	213	0.0	0.0	0.080	A
	Exit	1	1		888	4.52			889	913	0.0	0.0	0.114	A
		2	1		889				889	913	0.0	0.0	0.000	A

## Lane movements: Main Results for each time segment

## 07:45 - 08:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	138	35	1098	697	0.198	138	136	0.0	0.3	9.497	A	
				C	174	43	1098	695	0.250	174	174	0.0	0.3	7.899	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	219	55	1098	695	0.316	220	222	0.0	0.5	7.905	A	
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
			3	A	34	8	1098	697	0.049	33	36	0.0	0.1	6.998	A	
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				D	114	28	1098	696	0.163	113	111	0.0	0.3	7.074	A	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	181	45	1193	1530	0.119	182	177	0.0	0.1	2.749	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	111	28	1193	1527	0.072	110	115	0.0	0.2	4.636	A	
				B	3	0.66	642	823	0.003	3	3	0.0	0.0	5.020	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	599	150	1193	1527	0.392	598	585	0.0	0.9	4.623	A	
			1	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	181	45	-	-	-	181	178	0.0	0.0	0.106	A	

C	Entry	2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			A	111	28	-	-	-	111	116	0.0	0.0	0.204	A
			B	3	0.66	-	-	-	3	3	0.0	0.0	0.204	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		D	599	150	-	-	-	599	588	0.0	0.1	0.238	A	
		A	111	28	-	-	-	111	116	0.0	0.0	0.000	A	
	3	1	B	3	0.66	-	-	-	3	3	0.0	0.0	0.000	A
			C	181	45	-	-	-	181	178	0.0	0.0	0.000	A
			D	599	150	-	-	-	599	589	0.0	0.0	0.000	A
			A	111	28	-	-	-	111	116	0.0	0.0	0.000	A
		2	B	3	0.66	-	-	-	3	3	0.0	0.0	0.000	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	184	46	1001	822	0.223	185	187	0.0	0.3	5.846	A
			A	531	133	1001	824	0.644	531	535	0.0	1.2	9.145	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			A	396	99	1001	825	0.480	397	407	0.0	0.9	9.112	A
			B	186	46	1001	825	0.225	184	183	0.0	0.6	11.760	B
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	3	A	464	116	-	-	-	464	473	0.0	0.0	0.000	A	
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	184	46	-	-	-	184	188	0.0	0.0	0.000	A	
		A	463	116	-	-	-	463	477	0.0	0.0	0.001	A	
		B	186	46	-	-	-	186	186	0.0	0.0	0.007	A	
	1	1	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			A	144	36	1347	1210	0.119	143	145	0.0	0.3	5.130	A
			B	368	92	1347	1212	0.304	367	359	0.0	0.6	5.088	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2		A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		C	206	51	1347	1209	0.170	206	208	0.0	0.2	3.830	A	
		D	1	0.30	357	322	0.004	1	1	0.0	0.0	3.793	A	
		A	145	36	-	-	-	144	146	0.0	0.0	0.328	A	
		B	369	92	-	-	-	368	362	0.0	0.0	0.285	A	
2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C	206	51	-	-	-	206	208	0.0	0.0	0.106	A		
	D	1	0.30	-	-	-	1	1	0.0	0.0	0.000	A		

## 08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	166	42	1098	660	0.252	168	165	0.3	0.5	12.035	B
				C	196	49	1098	660	0.297	194	196	0.3	0.6	9.712	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	291	73	1098	664	0.438	290	280	0.5	0.8	9.575	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		1	A	45	11	1098	667	0.068	45	47	0.1	0.1	8.577	A	

B	Entry	3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	140	35	1098	663	0.211	140	137	0.3	0.3	8.480	A		
		B	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	209	52	1193	1422	0.147	209	210	0.1	0.2	3.001	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	A	143	36	1193	1417	0.101	142	141	0.2	0.3	6.011	A
					B	2	0.55	542	659	0.003	2	2	0.0	0.0	6.353	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	679	170	1193	1416	0.480	681	689	0.9	1.0	6.263	A
				2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
B	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
C	209				52	-	-	-	209	210	0.0	0.0	0.039	A		
D	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A	143	36	-	-	-	143	141	0.0	0.0	0.562	A				
	B	2	0.55	-	-	-	2	2	0.0	0.0	0.907	A				
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	D	681	170	-	-	-	679	690	0.1	0.2	0.564	A				
C	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	219	55	1001	779	0.281	220	219	0.3	0.5	6.938	A		
		2	A	662	166	1001	784	0.845	669	648	1.2	3.0	16.262	C		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		3	A	453	113	1001	783	0.578	455	453	0.9	2.2	16.623	C		
			B	230	58	1001	784	0.294	232	223	0.6	1.3	19.942	C		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	A	571	143	-	-	-	571	568	0.0	0.1	0.731	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	218	55	-	-	-	219	220	0.0	0.0	0.517	A		
		2	A	543	136	-	-	-	544	545	0.0	0.1	0.585	A		
			B	231	58	-	-	-	230	226	0.0	0.1	2.090	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	A	171	43	1347	1024	0.167	171	175	0.3	0.5	7.376	A		
			B	431	108	1347	1025	0.420	432	435	0.6	0.9	7.086	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	244	61	1347	1022	0.238	244	241	0.2	0.3	4.667	A		
			D	2	0.45	480	375	0.005	2	2	0.0	0.0	4.252	A		
		2	A	170	43	-	-	-	171	175	0.0	0.0	1.217	A		
			B	429	107	-	-	-	431	436	0.0	0.2	1.148	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	C	244	61	-	-	-	244	242	0.0	0.0	0.092	A				
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				

				D	2	0.45	-	-	-	2	2	0.0	0.0	0.214	A
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## 08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	211	53	1098	624	0.338	207	201	0.5	1.3	17.677	C		
				C	228	57	1098	624	0.365	226	233	0.6	0.9	13.592	B		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	359	90	1098	620	0.580	355	352	0.8	1.7	13.195	B		
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
			3	A	56	14	1098	624	0.089	56	53	0.1	0.2	10.615	B		
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A	
				D	167	42	1098	624	0.267	167	168	0.3	0.5	10.081	B		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	263	66	1193	1286	0.204	263	260	0.2	0.3	3.712	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	168	42	1193	1290	0.130	168	172	0.3	0.5	9.751	A		
				B	3	0.84	723	791	0.004	3	3	0.0	0.0	9.428	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	852	213	1193	1290	0.661	851	835	1.0	2.7	9.915	A		
			2	1	A	0	0	0	0	0.000	0	0.000	0	0.0	0.000	A	
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				2	C	263	66	-	-	-	263	261	0.0	0.0	0.072	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		3	1	A	169	42	-	-	-	168	173	0.0	0.2	2.952	A		
				B	3	0.84	-	-	-	3	3	0.0	0.0	2.405	A		
			2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	853	213	-	-	-	852	842	0.2	0.7	3.219	A		
		3	1	A	169	42	-	-	-	169	174	0.0	0.0	0.286	A		
				B	3	0.84	-	-	-	3	3	0.0	0.0	0.187	A		
			2	C	262	66	-	-	-	263	261	0.0	0.0	0.340	A		
				D	852	213	-	-	-	853	844	0.0	0.1	0.391	A		
		C	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						D	237	59	1001	700	0.338	236	246	0.5	0.6	8.852	A
2	A				711	178	1001	700	1.015	708	708	3.0	9.8	41.886	E		
	B				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A				480	120	1001	701	0.685	475	481	2.2	7.0	42.939	E		
	B				216	54	1001	703	0.308	219	223	1.3	2.8	43.379	E		
	C				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			A	961	240	-	-	-	851	789	0.1	19.5	35.738	E		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	267	67	-	-	-	237	247	0.0	5.2	31.573	D		
	2			A	422	105	-	-	-	341	446	0.1	14.8	56.271	F		
				B	272	68	-	-	-	216	229	0.1	11.0	77.686	F		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
						A	213	53	1347	965	0.221	214	213	0.5	0.6	10.861	B



D	Entry	1	B	531	133	1347	962	0.552	530	522	0.9	1.6	10.646	B
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			C	300	75	1347	966	0.311	300	299	0.3	0.5	5.771	A
	2	1	D	2	0.59	612	437	0.005	2	3	0.0	0.0	4.986	A
			A	215	54	-	-	-	213	213	0.0	0.5	6.838	A
			B	536	134	-	-	-	531	524	0.2	1.5	6.997	A
		2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2	1	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		C	300	75	-	-	-	300	299	0.0	0.0	0.210	A	
		D	2	0.59	-	-	-	2	3	0.0	0.0	0.155	A	
	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	200	50	1098	625	0.320	197	203	1.3	1.1	17.546	C
				C	239	60	1098	621	0.385	237	230	0.9	1.0	13.384	B
			2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	C	358	89	1098	624	0.573	356	359	1.7	1.5	12.785	B	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	51	13	1098	622	0.082	51	54	0.2	0.2	9.604	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	165	41	1098	622	0.266	166	167	0.5	0.4	9.661	A	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	251	63	1193	1278	0.196	250	253	0.3	0.3	3.784	A
			2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				A	175	44	1193	1288	0.136	175	171	0.5	0.5	10.505	B
				B	3	0.86	777	838	0.004	3	4	0.0	0.0	11.332	B
		2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	843	211	1193	1281	0.658	847	842	2.7	2.5	10.622	B	
			1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	251	63	-	-	-	251	253	0.0	0.0	0.063	A
			3	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		A		174	44	-	-	-	175	171	0.2	0.2	4.040	A	
		B		3	0.86	-	-	-	3	4	0.0	0.0	4.526	A	
		C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D		845	211	-	-	-	843	841	0.7	1.2	4.238	A	
		A		175	44	-	-	-	174	171	0.0	0.1	0.947	A	
		1	1	B	3	0.86	-	-	-	3	4	0.0	0.0	1.774	A
C	251			63	-	-	-	251	253	0.0	0.1	1.058	A		
D	845			211	-	-	-	845	843	0.1	0.4	1.068	A		
2	A		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	B		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
1	1	D	245	61	1001	708	0.345	245	247	0.6	0.7	10.017	B		
		A	705	176	1001	704	1.002	703	709	9.8	10.1	50.289	F		
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

C	Entry	3	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	501	125	1001	703	0.712	499	493	7.0	7.0	50.314	F	
			B	223	56	1001	703	0.317	224	219	2.8	3.1	50.400	F	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				A	978	245	-	-	-	875	872	19.5	43.6	129.988	F
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	D	279	70	-	-	-	245	247	5.2	12.7	132.295	F
				A	415	104	-	-	-	331	331	14.8	34.5	272.306	F
				B	271	68	-	-	-	223	220	11.0	23.3	282.189	F
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D	Entry	1	1	A	215	54	1347	950	0.227	214	214	0.6	0.8	11.401	B
				B	520	130	1347	943	0.551	519	523	1.6	1.8	11.073	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	305	76	1347	948	0.322	304	300	0.5	0.5	5.859	A
				D	2	0.50	582	417	0.005	2	2	0.0	0.0	4.960	A
		2	1	A	217	54	-	-	-	215	214	0.5	0.6	8.536	A
				B	525	131	-	-	-	520	524	1.5	1.7	8.715	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	306	76	-	-	-	305	300	0.0	0.1	0.235	A
				D	2	0.50	-	-	-	2	2	0.0	0.0	0.116	A

## 08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	163	41	1098	649	0.251	162	162	1.1	0.7	13.045	B
				C	208	52	1098	644	0.323	206	205	1.0	0.7	9.944	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	278	70	1098	646	0.431	278	280	1.5	0.9	10.166	B
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			3	A	45	11	1098	645	0.070	45	44	0.2	0.1	8.098	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	131	33	1098	650	0.202	129	133	0.4	0.4	8.308	A
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	211	53	1193	1423	0.148	211	210	0.3	0.2	3.090	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	142	36	1193	1425	0.100	144	144	0.5	0.3	6.726	A
				B	3	0.64	624	736	0.003	3	3	0.0	0.0	7.502	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	682	171	1193	1423	0.479	684	698	2.5	1.1	6.798	A
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	211	53	-	-	-	211	210	0.0	0.0	0.057	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2	A	142	36	-	-	-	142	143	0.2	0.0	0.979	A			

C	Entry	2	B	3	0.64	-	-	-	3	3	0.0	0.0	0.869	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	681	170	-	-	-	682	692	1.2	0.1	0.928	A		
		3	1	A	142	36	-	-	-	142	142	0.1	0.0	0.113	A	
				B	3	0.64	-	-	-	3	3	0.0	0.0	0.000	A	
				C	211	53	-	-	-	211	210	0.1	0.0	0.115	A	
	D	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	247	62	1001	781	0.316	247	252	0.7	0.5	8.759	A		
			2	1	A	763	191	1001	781	0.976	771	765	10.1	9.0	45.477	E
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
C		0			0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3		1	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			A	501	125	1001	781	0.642	509	520	7.0	6.0	45.400	E		
			B	263	66	1001	778	0.338	264	249	3.1	3.1	45.712	E		
D		Entry	2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	A			867	217	-	-	-	948	944	43.6	23.8	126.802	F		
	2		2	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	224	56	-	-	-	247	251	12.7	5.6	126.685	F	
	2	2	A	244	61	-	-	-	317	334	34.5	15.5	270.719	F		
			B	222	56	-	-	-	263	249	23.3	16.3	294.911	F		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D	Entry	1	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				A	180	45	1347	892	0.202	180	179	0.8	0.6	10.344	B	
				B	437	109	1347	887	0.493	437	443	1.8	1.4	10.254	B	
2			1	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		2	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	243	61	1347	887	0.274	243	246	0.5	0.3	5.667	A		
			D	2	0.48	418	279	0.007	2	1	0.0	0.0	7.893	A		
D		1	2	A	181	45	-	-	-	180	178	0.6	0.3	4.564	A	
				B	440	110	-	-	-	437	441	1.7	0.8	4.316	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	2	C	242	61	-	-	-	243	245	0.1	0.0	0.133	A			
		D	2	0.48	-	-	-	2	1	0.0	0.0	0.259	A			

## 09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	141	35	1098	688	0.204	139	138	0.7	0.5	10.344	B	
				C	170	42	1098	689	0.247	170	174	0.7	0.4	8.730	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	C	232	58	1098	686	0.339	233	231	0.9	0.5	8.351	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					A	39	10	1098	683	0.057	38	36	0.1	0.1	7.727	A

B	Entry	3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	117	29	1098	687	0.170	119	115	0.4	0.2	7.776	A		
		B	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	176	44	1193	1521	0.116	176	178	0.2	0.1	2.785	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					A	120	30	1193	1521	0.079	120	117	0.3	0.2	4.608	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	B	3	0.64	470	594	0.004	2	2	0.0	0.0	5.590	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	574	144	1193	1516	0.379	575	588	1.1	0.8	4.722	A
A	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
B	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
C	176				44	-	-	-	176	178	0.0	0.0	0.045	A		
2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	A	120	30	-	-	-	120	116	0.0	0.0	0.145	A				
	B	3	0.64	-	-	-	3	2	0.0	0.0	0.000	A				
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	D	574	143	-	-	-	574	587	0.1	0.0	0.195	A				
	A	120	30	-	-	-	120	116	0.0	0.0	0.000	A				
3	1	B	3	0.64	-	-	-	3	2	0.0	0.0	0.000	A			
		C	176	44	-	-	-	176	178	0.0	0.0	0.000	A			
		D	574	143	-	-	-	574	586	0.0	0.0	0.000	A			
		A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
C	Entry	1	D	191	48	1001	828	0.230	193	208	0.5	0.3	6.776	A		
			A	575	144	1001	830	0.693	597	674	9.0	2.3	28.672	D		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			A	407	102	1001	833	0.489	421	457	6.0	1.3	27.262	D		
		3	B	217	54	1001	833	0.261	230	256	3.1	1.0	30.934	D		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			A	513	128	-	-	-	549	699	23.8	0.5	38.532	E		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1	D	184	46	-	-	-	191	208	5.6	0.1	30.722	D			
		A	412	103	-	-	-	433	386	15.5	0.3	30.953	D			
		B	184	46	-	-	-	217	247	16.3	0.7	74.533	F			
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		A	145	36	1347	1107	0.131	147	153	0.6	0.3	8.088	A			
D	Entry	1	B	359	90	1347	1112	0.322	361	366	1.4	0.6	7.887	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	208	52	1347	1107	0.188	210	211	0.3	0.3	5.182	A		
		2	1	D	2	0.45	429	324	0.006	2	2	0.0	0.0	4.379	A	
				A	146	36	-	-	-	145	151	0.3	0.1	1.389	A	
				B	358	89	-	-	-	359	363	0.8	0.1	1.454	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2	2	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		C	208	52	-	-	-	208	211	0.0	0.0	0.081	A			

				D	2	0.45	-	-	-	2	2	0.0	0.0	0.000	A
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<b>Junctions 10</b>
<b>ARCADY 10 - Roundabout Module</b>
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**Filename:** JUNCTION 1 - Lane Sim PM Mitigation 2.j10

**Path:** J:\48559 Crawley Transport Study\Transport\Working Documents\Junction Modelling\Junction Models\JUNCTION 1

**Report generation date:** 29/04/2021 10:37:59

»2035 Scenario 2, PM

»2035 Scenario 3, PM

**Summary of junction performance**

PM					
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
[Lane Simulation] - 2035 Scenario 2					
Arm A	D5	101.5	166.85		F
Arm B		6.7	19.68		C
Arm C		8.9	22.45		C
Arm D		3.3	10.25		B
[Lane Simulation] - 2035 Scenario 3					
Arm A	D7	156.6	242.19		F
Arm B		25.3	66.89		F
Arm C		10.5	25.18		D
Arm D		2.6	9.42		A

*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.*

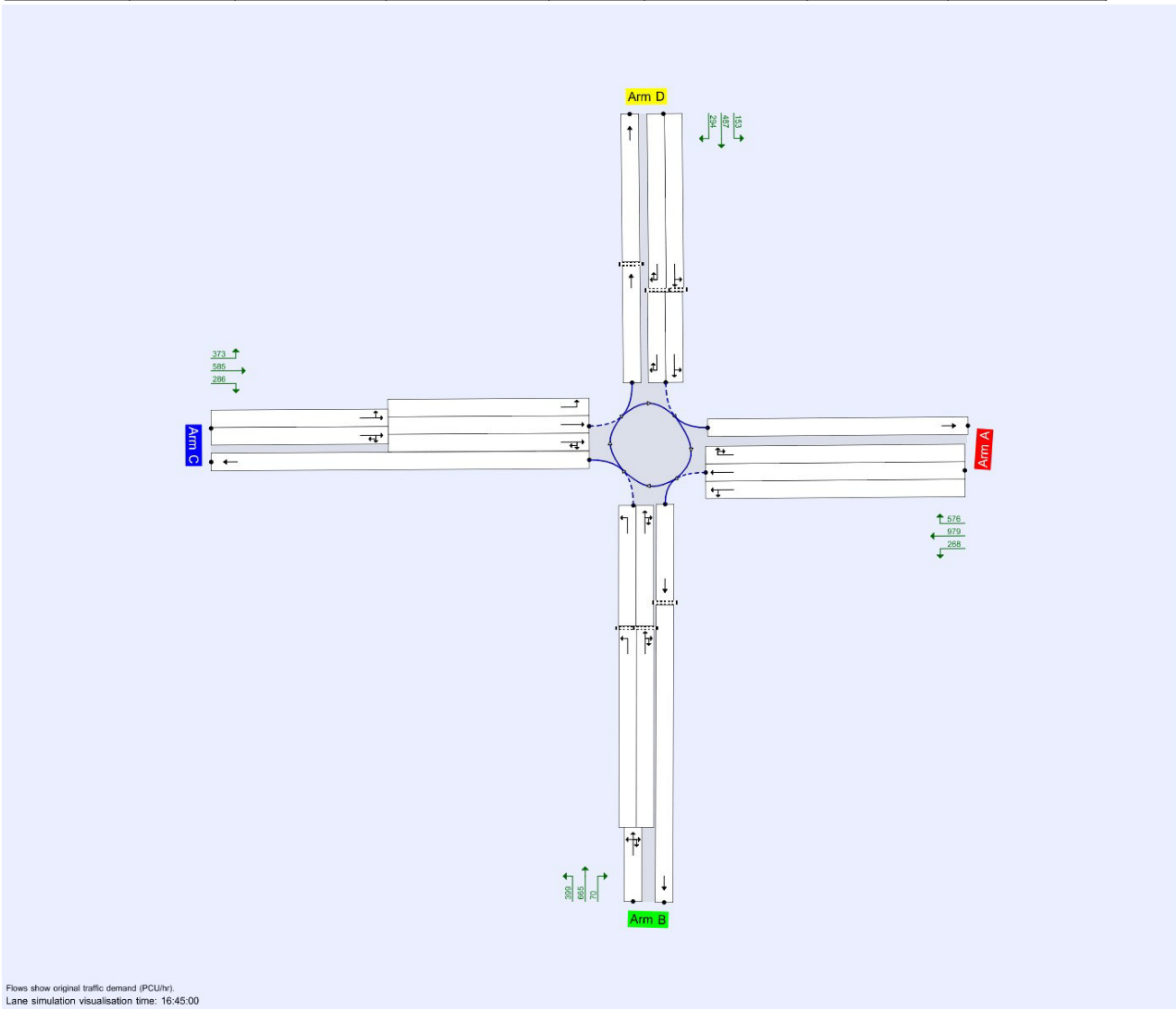
**File summary**

**File Description**

<b>Title</b>	Ifield Roundabout - Base
<b>Location</b>	Crewley
<b>Site number</b>	1
<b>Date</b>	31/03/2021
<b>Version</b>	V1
<b>Status</b>	(new file)
<b>Identifier</b>	001
<b>Client</b>	
<b>Jobnumber</b>	48559
<b>Enumerator</b>	CORP\rycox
<b>Description</b>	

**Units**

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



Flows show original traffic demand (PCU/hr).  
Lane simulation visualisation time: 16:45:00

The junction diagram reflects the last run of Junctions.

**Analysis Options**

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

**Lane Simulation options**

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	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	-1	3	1	60	✓			914225833	158	271.80

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	PM	ONE HOUR	16:45	18:15	15	✓
D3	2035 Ref	PM	ONE HOUR	16:45	18:15	15	✓
D5	2035 Scenario 2	PM	ONE HOUR	16:45	18:15	15	✓
D7	2035 Scenario 3	PM	ONE HOUR	16:45	18:15	15	✓

### Analysis Set Details

ID	Use Lane Simulation	Include in report	Use specific Demand Set (s)	Specific Demand Set (s)	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	✓	✓	D5,D7	100.000	100.000



# 2035 Scenario 2, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	69.64	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	69.64	F

## Arms

### Arms

Arm	Name	Description	No give-way line
A	A23 Crawley Avenue East		
B	Ifield Avenue South		
C	A23 Crawley Avenue West		
D	Ifield Avenue North		

### 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
A	10.68	11.23	1.8	18.4	32.0	31.0		
B	3.50	7.96	100.0	60.0	32.0	21.0		
C	7.20	10.50	60.0	35.8	32.0	39.0		
D	7.00	8.38	10.0	999.0	32.0	10.0		

### Pelican/Puffin Crossings

Arm	Space between crossing and junc. entry (Signalised) (PCU)	Vehicles queueing on exit (Signalised) (PCU)	Amber time preceding red (s)	Amber time regarded as green (s)	Time from traffic red start to green man start (s)	Time period green man shown (s)	Clearance Period (s)	Traffic minimum green (s)
B	12.00	5.00	3.00	2.90	1.00	6.00	6.00	7.00
D	12.00	6.00	3.00	2.90	1.00	6.00	6.00	7.00

## Slope / Intercept / Capacity

### Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A	0.978	3294
B	0.815	2386
C	0.918	3003
D	0.895	2694

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

### Arm Capacity Adjustments

Arm	Type	Reason	Percentage capacity adjustment (%)
A	Percentage		82.00
B	Percentage		195.00
D	Percentage		125.00

### Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
A	Evenly split	10.00
B	Evenly split	10.00
C	Evenly split	10.00
D	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
A	Entry	1	1	B, C		Infinity			0	99999	
			2	C		Infinity			0	99999	
			3	A, D		Infinity			0	99999	
	Exit	1	1			Infinity					
B	Entry	1	1	C	✓	6.00			0	99999	
			2	A, B, D	✓	6.00			0	99999	
		2	1	(C)	✓	10.00					
			2	(A, B, D)	✓	10.00					
	3	1	((A, B, C, D))		Infinity						
	Exit	1	1			✓	5.00				
2		1				Infinity					
C	Entry	1	1	D	✓	10.00			0	99999	
			2	A	✓	10.00			0	99999	
			3	A, B, C	✓	10.00			0	99999	
		2	1	(A, D)		Infinity					
			2	(A, B, C)		Infinity					
	Exit	1	1			Infinity					
D	Entry	1	1	A, B	✓	4.50			0	99999	
			2	C, D	✓	4.50			0	99999	
		2	1	(A, B)		Infinity					
			2	(C, D)		Infinity					
	Exit	1	1			✓	6.00				
		2	1				Infinity				

### Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
A	Entry	1	1	0.326	1098
			2	0.326	1098
			3	0.326	1098
B	Entry	1	1	0.408	1193
			2	0.408	1193
C	Entry	1	1	0.306	1001
			2	0.306	1001
			3	0.306	1001
D	Entry	1	1	0.447	1347
			2	0.447	1347

### Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			A	B	C	D
A	1	1		✓	✓	
		2			✓	
		3	✓			✓
B	1	1			✓	
		2	✓	✓		✓
	2	1			✓	
		2	✓	✓		✓
	3	1	✓	✓	✓	✓
C	1	1				✓
		2	✓			
		3	✓	✓	✓	
	2	1	✓			✓
		2	✓	✓	✓	
D	1	1	✓	✓		
		2			✓	✓
	2	1	✓	✓		
		2			✓	✓

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2035 Scenario 2	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1759	100.000
B		ONE HOUR	✓	1077	100.000
C		ONE HOUR	✓	1296	100.000
D		ONE HOUR	✓	942	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

From	To			
	A	B	C	D
A	69	268	995	427
B	70	2	400	605
C	585	260	2	449
D	153	537	252	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To			
	A	B	C	D
A	3	2	3	4
B	0	0	3	3
C	11	4	0	7
D	5	4	1	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	166.85	101.5	F	1612	2418
B	19.68	6.7	C	987	1481
C	22.45	8.9	C	1186	1779
D	10.25	3.3	B	865	1297

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1333	333	731		1326	1311	651	0.0	4.4	10.704	B
B	816	204	1294	4.52	815	805	794	0.0	1.2	4.484	A
C	967	242	830		968	966	1244	0.0	2.4	8.330	A
D	698	175	723	4.52	698	706	1117	0.0	0.9	4.582	A

**17:00 - 17:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1567	392	878		1570	1548	798	4.4	9.1	19.599	C
B	975	244	1537	5.39	971	967	956	1.2	2.1	6.419	A
C	1170	292	1007		1164	1166	1475	2.4	3.9	10.915	B
D	852	213	879	5.39	855	853	1329	0.9	1.2	5.987	A

**17:15 - 17:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1951	488	1084		1748	1735	983	9.1	58.4	73.867	F
B	1189	297	1738	6.61	1181	1161	1140	2.1	6.2	14.885	B
C	1439	360	1214		1441	1408	1675	3.9	8.1	19.432	C
D	1043	261	1092	6.61	1042	1020	1612	1.2	3.1	8.905	A

**17:30 - 17:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1939	485	1051		1774	1774	960	58.4	101.5	166.848	F
B	1168	292	1766	6.61	1171	1174	1122	6.2	6.7	19.683	C
C	1416	354	1220		1419	1412	1680	8.1	8.9	22.451	C
D	1036	259	1059	6.61	1028	1038	1628	3.1	3.3	10.249	B

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1553	388	867		1742	1785	791	101.5	47.4	142.599	F
B	965	241	1670	5.39	968	981	978	6.7	2.5	11.597	B
C	1150	288	1018		1158	1181	1599	8.9	3.7	12.947	B
D	842	210	873	5.39	838	849	1337	3.3	1.6	6.420	A

**18:00 - 18:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1328	332	735		1382	1491	663	47.4	6.1	38.127	E
B	811	203	1338	4.52	811	812	819	2.5	1.1	5.603	A
C	972	243	833		970	978	1285	3.7	2.5	8.525	A
D	718	180	731	4.52	719	715	1117	1.6	0.9	4.723	A

## Lane Results

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

### Lanes: Main Results for each time segment

16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	508		705	0.720	505	501	0.0	1.8	11.158	B
			2	C	445		705	0.631	443	439	0.0	1.4	9.853	A
			3	A, D	381		705	0.540	378	372	0.0	1.2	11.098	B
	Exit	1	1		651				651	656	0.0	0.0	0.000	A
B	Entry	1	1	C	306		1298	0.236	306	297	0.0	0.3	3.799	A
			2	A, B, D	510		1298	0.393	509	507	0.0	0.8	4.676	A
		2	1	(C)	306	4.52			306	299	0.0	0.0	0.092	A
			2	(A, B, D)	510	4.52			510	511	0.0	0.0	0.150	A
	3	1	((A, B, C, D))	816				816	810	0.0	0.0	0.000	A	
	Exit	1	1		794	4.52			794	797	0.0	0.0	0.118	A
2	1		794				794	797	0.0	0.0	0.000	A		
C	Entry	1	1	D	338		747	0.453	340	337	0.0	0.9	9.649	A
			2	A	257		747	0.344	256	259	0.0	0.6	6.775	A
			3	A, B, C	373		747	0.499	372	370	0.0	0.9	8.165	A
		2	1	(A, D)	558				558	560	0.0	0.0	0.011	A
	2		(A, B, C)	410				410	416	0.0	0.0	0.000	A	
	Exit	1	1		1244				1244	1230	0.0	0.0	0.000	A
D	Entry	1	1	A, B	509		1279	0.398	508	515	0.0	0.7	4.746	A
			2	C, D	189		1279	0.148	189	191	0.0	0.2	3.355	A
		2	1	(A, B)	509	4.52			509	518	0.0	0.0	0.274	A
			2	(C, D)	189	4.52			189	192	0.0	0.0	0.080	A
	Exit	1	1		1118	4.52			1117	1106	0.0	0.0	0.208	A
		2	1		1117				1117	1106	0.0	0.0	0.000	A

## 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	585		665	0.880	588	578	1.8	3.6	21.032	C
			2	C	531		665	0.798	534	529	1.4	3.0	19.396	C
			3	A, D	450		665	0.676	448	440	1.2	2.4	17.935	C
	Exit	1	1		798				798	791	0.0	0.0	0.000	A
B	Entry	1	1	C	360		1105	0.326	358	358	0.3	0.6	4.819	A
			2	A, B, D	615		1105	0.557	613	609	0.8	1.4	7.029	A
		2	1	(C)	360	5.39			360	359	0.0	0.0	0.075	A
			2	(A, B, D)	615	5.39			615	612	0.0	0.1	0.276	A
	3	1	((A, B, C, D))	975				975	971	0.0	0.0	0.000	A	
	Exit	1	1		956	5.39			956	958	0.0	0.0	0.122	A
2		1		956				956	958	0.0	0.0	0.000	A	
C	Entry	1	1	D	396		693	0.572	397	400	0.9	1.5	12.923	B
			2	A	335		693	0.483	331	328	0.6	1.0	8.571	A
			3	A, B, C	439		693	0.634	435	438	0.9	1.4	10.692	B
		2	1	(A, D)	665				665	665	0.0	0.0	0.046	A
	2		(A, B, C)	505				505	507	0.0	0.0	0.006	A	
	Exit	1	1		1475				1475	1461	0.0	0.0	0.000	A
D	Entry	1	1	A, B	622		1192	0.522	625	625	0.7	0.9	6.050	A
			2	C, D	229		1192	0.192	230	229	0.2	0.2	3.689	A
		2	1	(A, B)	622	5.39			622	625	0.0	0.1	0.782	A
			2	(C, D)	230	5.39			229	229	0.0	0.0	0.052	A
	Exit	1	1		1331	5.39			1329	1322	0.0	0.2	0.200	A
		2	1		1329				1329	1322	0.0	0.0	0.000	A

## 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	700		610	1.147	602	607	3.6	25.8	89.019	F
			2	C	704		610	1.154	607	602	3.0	25.0	85.257	F
			3	A, D	547		610	0.895	539	526	2.4	7.6	39.890	E
	Exit	1	1		983				983	956	0.0	0.0	0.000	A
B	Entry	1	1	C	442		945	0.468	442	438	0.6	0.8	7.454	A
			2	A, B, D	742		945	0.786	739	723	1.4	3.3	13.446	B
		2	1	(C)	442	6.61			442	439	0.0	0.0	0.292	A
			2	(A, B, D)	749	6.61			742	730	0.1	1.8	4.603	A
	3	1	((A, B, C, D))	1189				1191	1176	0.0	0.3	0.562	A	
	Exit	1	1		1139	6.61			1140	1118	0.0	0.1	0.136	A
2		1		1140				1140	1118	0.0	0.0	0.000	A	
C	Entry	1	1	D	487		629	0.774	489	482	1.5	3.2	23.333	C
			2	A	428		629	0.681	429	418	1.0	1.8	14.155	B
			3	A, B, C	520		629	0.827	524	508	1.4	2.6	17.518	C
		2	1	(A, D)	792				789	794	0.0	0.6	1.289	A
	2		(A, B, C)	647				647	629	0.0	0.0	0.172	A	
Exit	1	1		1675				1675	1668	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	763		1073	0.711	765	746	0.9	1.9	8.079	A
			2	C, D	279		1073	0.260	278	274	0.2	0.4	4.364	A
		2	1	(A, B)	764	6.61			763	750	0.1	0.8	2.480	A
			2	(C, D)	279	6.61			279	275	0.0	0.0	0.092	A
	Exit	1	1		1614	6.61			1612	1581	0.2	0.4	0.504	A
2		1		1612				1612	1581	0.0	0.0	0.000	A	

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	698		619	1.127	616	617	25.8	46.8	211.282	F
			2	C	695		619	1.122	613	611	25.0	46.1	208.539	F
			3	A, D	546		619	0.882	544	545	7.6	8.6	56.035	F
	Exit	1	1		960				960	956	0.0	0.0	0.000	A
B	Entry	1	1	C	432		923	0.468	430	435	0.8	1.0	7.751	A
			2	A, B, D	735		923	0.796	741	739	3.3	3.2	15.810	C
		2	1	(C)	431	6.61			432	435	0.0	0.0	0.234	A
			2	(A, B, D)	736	6.61			735	739	1.8	1.6	7.764	A
	3	1	((A, B, C, D))	1168				1167	1173	0.3	0.8	1.871	A	
	Exit	1	1		1122	6.61			1122	1136	0.1	0.0	0.217	A
2		1		1122				1122	1136	0.0	0.0	0.000	A	
C	Entry	1	1	D	492		627	0.784	498	493	3.2	3.7	28.354	D
			2	A	420		627	0.670	418	415	1.8	1.9	14.997	B
			3	A, B, C	506		627	0.807	503	504	2.6	2.8	18.704	C
		2	1	(A, D)	777				780	780	0.6	0.5	2.409	A
	2		(A, B, C)	639				638	635	0.0	0.1	0.245	A	
	Exit	1	1		1680				1680	1682	0.0	0.0	0.000	A
D	Entry	1	1	A, B	753		1091	0.690	749	758	1.9	2.0	8.541	A
			2	C, D	280		1091	0.256	279	280	0.4	0.5	4.565	A
		2	1	(A, B)	756	6.61			753	759	0.8	0.9	3.838	A
			2	(C, D)	280	6.61			280	280	0.0	0.0	0.092	A
	Exit	1	1		1629	6.61			1628	1624	0.4	0.3	0.516	A
		2	1		1628				1628	1624	0.0	0.0	0.000	A

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	559		669	0.836	648	659	46.8	23.3	190.358	F
			2	C	556		669	0.832	645	656	46.1	22.4	186.255	F
			3	A, D	437		669	0.654	449	471	8.6	1.7	25.188	D
	Exit	1	1		791				791	799	0.0	0.0	0.000	A
B	Entry	1	1	C	349		999	0.349	349	358	1.0	0.6	6.733	A
			2	A, B, D	619		999	0.620	619	622	3.2	1.8	11.315	B
		2	1	(C)	349	5.39			349	357	0.0	0.0	0.173	A
			2	(A, B, D)	617	5.39			619	616	1.6	0.2	2.565	A
	3	1	((A, B, C, D))	965				965	967	0.8	0.0	0.458	A	
	Exit	1	1		978	5.39			978	1001	0.0	0.0	0.150	A
2		1		978				978	1001	0.0	0.0	0.000	A	
C	Entry	1	1	D	400		689	0.580	407	414	3.7	1.4	15.963	C
			2	A	320		689	0.464	321	327	1.9	0.8	9.895	A
			3	A, B, C	431		689	0.625	431	441	2.8	1.5	12.012	B
		2	1	(A, D)	662				663	665	0.5	0.0	0.281	A
	2		(A, B, C)	488				488	498	0.1	0.0	0.048	A	
	Exit	1	1		1599				1599	1625	0.0	0.0	0.000	A
2		1		1599				1599	1625	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	614		1195	0.513	611	621	2.0	1.1	6.412	A
			2	C, D	226		1195	0.189	226	228	0.5	0.3	3.806	A
		2	1	(A, B)	615	5.39			614	618	0.9	0.2	1.007	A
			2	(C, D)	226	5.39			226	227	0.0	0.0	0.084	A
	Exit	1	1		1338	5.39			1337	1372	0.3	0.1	0.340	A
		2	1		1337				1337	1372	0.0	0.0	0.000	A



**18:00 - 18:15**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	504		704	0.717	528	574	23.3	2.8	48.682	E
			2	C	453		704	0.644	479	541	22.4	2.3	48.336	E
			3	A, D	370		704	0.526	375	376	1.7	1.1	11.465	B
	Exit	1	1		663				663	662	0.0	0.0	0.000	A
B	Entry	1	1	C	295		1263	0.233	295	294	0.6	0.4	4.376	A
			2	A, B, D	516		1263	0.408	516	518	1.8	0.7	6.124	A
		2	1	(C)	295	4.52			295	293	0.0	0.0	0.057	A
			2	(A, B, D)	516	4.52			516	514	0.2	0.0	0.171	A
	3	1	((A, B, C, D))	811				811	806	0.0	0.0	0.000	A	
	Exit	1	1		819	4.52			819	844	0.0	0.0	0.108	A
2		1		819				819	844	0.0	0.0	0.000	A	
C	Entry	1	1	D	334		746	0.448	332	338	1.4	1.1	9.860	A
			2	A	263		746	0.353	264	265	0.8	0.5	6.939	A
			3	A, B, C	376		746	0.504	374	375	1.5	0.9	8.401	A
		2	1	(A, D)	550				550	555	0.0	0.0	0.006	A
	2		(A, B, C)	422				422	418	0.0	0.0	0.000	A	
	Exit	1	1		1285				1285	1365	0.0	0.0	0.000	A
D	Entry	1	1	A, B	525		1275	0.412	526	524	1.1	0.6	4.896	A
			2	C, D	193		1275	0.151	193	191	0.3	0.2	3.457	A
		2	1	(A, B)	525	4.52			525	522	0.2	0.0	0.296	A
			2	(C, D)	193	4.52			193	191	0.0	0.0	0.047	A
	Exit	1	1		1116	4.52			1117	1125	0.1	0.0	0.129	A
		2	1		1117				1117	1125	0.0	0.0	0.000	A

**Lane movements: Main Results for each time segment**
**16:45 - 17:00**

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	201	50	1098	705	0.286	201	199	0.0	0.7	13.051	B	
				C	306	77	1098	708	0.433	305	301	0.0	1.0	9.899	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	445	111	1098	705	0.630	443	439	0.0	1.4	9.853	A	
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
			3	A	55	14	1098	706	0.078	54	54	0.0	0.2	11.086	B	
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				D	326	81	1098	706	0.462	323	318	0.0	1.0	11.100	B	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	306	76	1193	1300	0.235	306	297	0.0	0.3	3.799	A	
				D	0	0	0	0	0.000	0	0	0.000	0.0	0.000	A	
			2	A	54	14	1193	1299	0.042	54	55	0.0	0.1	4.487	A	
				B	1	0.27	408	456	0.002	1	2	0.0	0.0	3.990	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	455	114	1193	1300	0.350	454	451	0.0	0.8	4.703	A	
			1	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	306	76	-	-	-	306	299	0.0	0.0	0.092	A	

C	Entry	2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	54	14	-	-	-	54	55	0.0	0.0	0.114	A	
			B	1	0.27	-	-	-	1	2	0.0	0.0	0.161	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	455	114	-	-	-	455	454	0.0	0.0	0.154	A		
		3	1	A	54	14	-	-	-	54	55	0.0	0.0	0.000	A
				B	1	0.27	-	-	-	1	2	0.0	0.0	0.000	A
				C	306	76	-	-	-	306	299	0.0	0.0	0.000	A
	D			455	114	-	-	-	455	454	0.0	0.0	0.000	A	
	C	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	338	84	1001	748	0.452	340	337	0.0	0.9	9.649	A
			2	A	257	64	1001	748	0.344	256	259	0.0	0.6	6.775	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
3			A	174	43	1001	747	0.233	174	174	0.0	0.4	6.754	A	
			B	198	49	1001	748	0.264	197	195	0.0	0.5	9.340	A	
			C	2	0.38	291	221	0.007	2	1	0.0	0.0	7.135	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2			1	A	219	55	-	-	-	219	219	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	338	84	-	-	-	338	340	0.0	0.0	0.017	A
	2	A	211	53	-	-	-	211	217	0.0	0.0	0.000	A		
		B	198	49	-	-	-	198	197	0.0	0.0	0.000	A		
		C	2	0.38	-	-	-	2	1	0.0	0.0	0.000	A		
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	A	112	28	1347	1278	0.088	112	114	0.0	0.2	4.697	A	
			B	397	99	1347	1278	0.311	396	400	0.0	0.6	4.759	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	189	47	1347	1279	0.148	189	191	0.0	0.2	3.355	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	1	A	112	28	-	-	-	112	115	0.0	0.0	0.238	A
				B	397	99	-	-	-	397	403	0.0	0.0	0.285	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	189	47	-	-	-	189	192	0.0	0.0	0.080	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A

**17:00 - 17:15**

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	237	59	1098	667	0.356	237	235	0.7	1.8	23.626	C
				C	348	87	1098	663	0.525	351	344	1.0	1.9	19.227	C
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	531	133	1098	666	0.798	534	529	1.4	3.0	19.396	C
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		1	A	63	16	1098	667	0.094	62	63	0.2	0.4	18.513	C	

B	Entry	3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	387	97	1098	668	0.580	386	378	1.0	2.0	17.838	C	
		1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	360	90	1193	1107	0.325	358	358	0.3	0.6	4.819	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	64	16	1193	1115	0.057	64	62	0.1	0.1	6.952	A
				B	1	0.34	468	455	0.003	1	2	0.0	0.0	7.590	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	550	138	1193	1108	0.496	548	545	0.8	1.3	7.036	A
			1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
B	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A		
C	360			90	-	-	-	360	359	0.0	0.0	0.075	A		
D	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	A	64	16	-	-	-	64	62	0.0	0.0	0.242	A			
	B	1	0.32	-	-	-	1	2	0.0	0.0	0.162	A			
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	D	550	138	-	-	-	550	548	0.0	0.1	0.280	A			
3	1	A	64	16	-	-	-	64	62	0.0	0.0	0.000	A		
		B	1	0.32	-	-	-	1	2	0.0	0.0	0.000	A		
		C	360	90	-	-	-	360	359	0.0	0.0	0.000	A		
		D	550	138	-	-	-	550	548	0.0	0.0	0.000	A		
C	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	396	99	1001	692	0.572	397	400	0.9	1.5	12.923	B	
		2	A	335	84	1001	693	0.483	331	328	0.6	1.0	8.571	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		3	A	204	51	1001	692	0.295	202	200	0.4	0.6	8.733	A	
			B	233	58	1001	693	0.336	231	236	0.5	0.8	12.228	B	
			C	2	0.47	405	285	0.007	2	2	0.0	0.0	11.596	B	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
1	A	268	67	-	-	-	268	263	0.0	0.0	0.000	A			
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	D	396	99	-	-	-	396	403	0.0	0.0	0.074	A			
2	A	270	68	-	-	-	270	267	0.0	0.0	0.000	A			
	B	233	58	-	-	-	233	237	0.0	0.0	0.012	A			
	C	2	0.47	-	-	-	2	2	0.0	0.0	0.000	A			
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D	Entry	1	A	139	35	1347	1193	0.116	139	139	0.2	0.2	6.110	A	
			B	483	121	1347	1192	0.406	486	486	0.6	0.7	6.033	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	229	57	1347	1194	0.192	230	229	0.2	0.2	3.689	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		1	A	139	35	-	-	-	139	139	0.0	0.0	0.711	A	
			B	484	121	-	-	-	483	486	0.0	0.1	0.801	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	C	230	57	-	-	-	229	229	0.0	0.0	0.052	A			

				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
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## 17:15 - 17:30

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				
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				B	298	75	1098	610	0.489	255	255	1.8	11.4	93.320	F				
				C	401	100	1098	611	0.657	346	352	1.9	14.5	85.852	F				
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A		
				C	704	176	1098	610	1.155	607	602	3.0	25.0	85.257	F				
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			3	A	74	19	1098	613	0.121	75	73	0.4	1.1	40.189	E				
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				D	472	118	1098	610	0.774	465	453	2.0	6.5	39.841	E				
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				C	442	110	1193	945	0.468	442	438	0.6	0.8	7.454	A				
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			2	A	77	19	1193	939	0.082	77	74	0.1	0.3	13.763	B				
				B	2	0.42	498	406	0.004	2	2	0.0	0.0	13.508	B				
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				D	664	166	1193	948	0.700	660	647	1.3	3.0	13.409	B				
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
				C	442	110	-	-	-	442	439	0.0	0.0	0.292	A				
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		3	A	77	19	-	-	-	77	75	0.0	0.2	5.305	A					
			B	2	0.42	-	-	-	2	2	0.0	0.0	3.934	A					
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A					
			D	670	168	-	-	-	664	653	0.1	1.6	4.523	A					
		3	1	A	77	19	-	-	-	77	76	0.0	0.0	0.695	A				
				B	2	0.42	-	-	-	2	2	0.0	0.0	0.586	A				
				C	441	110	-	-	-	442	439	0.0	0.1	0.547	A				
				D	670	167	-	-	-	670	659	0.0	0.2	0.555	A				
				C	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
								B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
								C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
								D	487	122	1001	630	0.773	489	482	1.5	3.2	23.333	C
2	A						428	107	1001	630	0.680	429	418	1.0	1.8	14.155	B		
	B						0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C						0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D						0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A	232	58				1001	631	0.367	233	227	0.6	0.9	14.136	B				
	B	286	72				1001	630	0.455	288	279	0.8	1.7	20.024	C				
	C	2	0.51				412	265	0.008	2	2	0.0	0.0	21.407	C				
	D	0	0				0	0	0.000	0	0	0.0	0.0	0.000	A				
2	1	A	302			75	-	-	-	302	305	0.0	0.0	0.079	A				
		B	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		C	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		D	490			123	-	-	-	487	489	0.0	0.5	2.013	A				
	2	A	358			90	-	-	-	358	344	0.0	0.0	0.069	A				
		B	286			72	-	-	-	286	283	0.0	0.0	0.286	A				
		C	2			0.51	-	-	-	2	2	0.0	0.0	0.625	A				
		D	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
						A	170	43	1347	1076	0.158	170	165	0.2	0.4	8.109	A		

D	Entry	1	B	593	148	1347	1073	0.553	594	581	0.7	1.5	8.071	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			C	279	70	1347	1077	0.259	278	274	0.2	0.4	4.364	A
	2	1	A	171	43	-	-	-	170	166	0.0	0.2	2.472	A
			B	593	148	-	-	-	593	584	0.1	0.6	2.482	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2	1	C	279	70	-	-	-	279	275	0.0	0.0	0.092	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 17:30 - 17:45

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	291	73	1098	617	0.471	261	263	11.4	19.8	215.250	F	
				C	407	102	1098	620	0.657	356	354	14.5	27.1	208.355	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	695	174	1098	619	1.121	613	611	25.0	46.1	208.539	F	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			3	A	79	20	1098	620	0.128	79	76	1.1	1.2	55.535	F	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	467	117	1098	620	0.754	465	469	6.5	7.4	56.116	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	432	108	1193	924	0.467	430	435	0.8	1.0	7.751	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	73	18	1193	928	0.078	73	76	0.3	0.3	15.737	C	
				B	2	0.40	400	314	0.005	2	2	0.0	0.0	13.715	B	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	661	165	1193	924	0.715	666	662	3.0	2.8	15.825	C	
			2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	C	431	108	-	-	-	432	435	0.0	0.0	0.234	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	1	A	72	18	-	-	-	73	76	0.2	0.1	7.369	A	
				B	2	0.40	-	-	-	2	2	0.0	0.0	7.106	A	
			2	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	662	166	-	-	-	661	661	1.6	1.5	7.812	A	
		3	1	A	72	18	-	-	-	72	75	0.0	0.0	1.693	A	
				B	2	0.44	-	-	-	2	2	0.0	0.0	4.429	A	
				C	433	108	-	-	-	431	435	0.1	0.4	1.838	A	
				D	662	165	-	-	-	662	661	0.2	0.4	1.906	A	
		1	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	492	123	1001	626	0.785	498	493	3.2	3.7	28.354	D
2	A			420	105	1001	625	0.672	418	415	1.8	1.9	14.997	B		
	B			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

C	Entry	3	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	218	55	1001	623	0.350	218	218	0.9	1.0	15.314	C	
			B	286	71	1001	624	0.457	283	284	1.7	1.8	21.091	C	
			C	2	0.55	418	266	0.008	3	2	0.0	0.0	24.564	C	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	A	289	72	-	-	-	288	285	0.0	0.0	0.096	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	D			489	122	-	-	-	492	495	0.5	0.4	3.692	A	
	2	2	A	350	88	-	-	-	350	349	0.0	0.0	0.125	A	
			B	286	72	-	-	-	286	284	0.0	0.1	0.381	A	
			C	2	0.55	-	-	-	2	2	0.0	0.0	0.496	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	D	Entry	1	A	173	43	1347	1091	0.159	173	171	0.4	0.4	8.645	A
				B	580	145	1347	1091	0.532	576	588	1.5	1.5	8.512	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2			1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	280	70	1347	1091	0.257	279	280	0.4	0.5	4.565	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2		2	A	173	43	-	-	-	173	171	0.2	0.2	4.004	A	
			B	582	146	-	-	-	580	588	0.6	0.7	3.790	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	280	70	-	-	-	280	280	0.0	0.0	0.092	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 17:45 - 18:00

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	239	60	1098	672	0.355	270	279	19.8	10.3	193.445	F
				C	320	80	1098	669	0.479	378	380	27.1	13.0	188.049	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	556	139	1098	668	0.832	645	656	46.1	22.4	186.255	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			3	A	65	16	1098	669	0.098	67	66	1.2	0.2	25.341	D
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	372	93	1098	670	0.555	382	404	7.4	1.5	25.163	D
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	349	87	1193	995	0.350	349	358	1.0	0.6	6.733	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	69	17	1193	1004	0.069	68	66	0.3	0.2	11.183	B
				B	2	0.51	491	398	0.005	2	2	0.0	0.0	10.720	B
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	548	137	1193	995	0.551	549	554	2.8	1.5	11.334	B
		2	1	A	0	0	0	0	0.000	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	349	87	-	-	-	349	357	0.0	0.0	0.173	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2	A	69	17	-	-	-	69	66	0.1	0.0	2.555	A			

C	Entry	2	B	2	0.51	-	-	-	2	2	0.0	0.0	2.384	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	546	137	-	-	-	548	548	1.5	0.2	2.567	A		
		3	1	A	69	17	-	-	-	69	66	0.0	0.0	0.562	A	
				B	2	0.51	-	-	-	2	2	0.0	0.0	0.000	A	
				C	349	87	-	-	-	349	357	0.4	0.0	0.427	A	
	D	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	400	100	1001	690	0.580	407	414	3.7	1.4	15.963	C		
			2	1	A	320	80	1001	690	0.464	321	327	1.9	0.8	9.895	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
C		0			0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3		2	A	201	50	1001	690	0.291	201	202	1.0	0.5	9.788	A		
			B	228	57	1001	692	0.330	227	237	1.8	0.9	13.771	B		
			C	2	0.42	374	255	0.007	2	2	0.0	0.0	14.722	B		
D		Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	D			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	2		1	A	263	66	-	-	-	263	260	0.0	0.0	0.008	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	2	A	399	100	-	-	-	400	405	0.4	0.0	0.451	A		
			B	258	65	-	-	-	258	262	0.0	0.0	0.019	A		
			C	228	57	-	-	-	228	234	0.1	0.0	0.079	A		
	D	Entry	1	A	2	0.42	-	-	-	2	2	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2			1	A	134	34	1347	1196	0.112	133	137	0.4	0.3	6.434	A	
				B	479	120	1347	1195	0.401	478	484	1.5	0.8	6.405	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	226	57	1347	1196	0.189	226	228	0.5	0.3	3.806	A		
D		Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2		1	A	135	34	-	-	-	134	137	0.2	0.1	1.006	A	
				B	481	120	-	-	-	479	481	0.7	0.2	1.008	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	226	57	-	-	-	226	227	0.0	0.0	0.084	A		
	2	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

**18:00 - 18:15**

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	206	51	1098	705	0.291	212	237	10.3	1.5	52.112	F	
				C	299	75	1098	702	0.426	316	337	13.0	1.3	46.290	E	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	453	113	1098	704	0.644	479	541	22.4	2.3	48.336	E	
			2	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2	2	A	51	13	1098	704	0.073	52	52	0.2	0.2	11.510	B			

		3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			D	319	80	1098	704	0.453	323	323	1.5	0.9	11.458	B			
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	295	74	1193	1266	0.233	295	294	0.6	0.4	4.376	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	53	13	1193	1259	0.042	53	53	0.2	0.1	6.034	A		
				B	2	0.42	393	377	0.004	2	2	0.0	0.0	5.027	A		
		C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		D	462	115	1193	1265	0.365	462	463	1.5	0.6	6.139	A				
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	295	74	-	-	-	295	293	0.0	0.0	0.057	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	53	13	-	-	-	53	52	0.0	0.0	0.153	A		
				B	2	0.42	-	-	-	2	2	0.0	0.0	0.099	A		
		C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
		D	462	115	-	-	-	462	460	0.2	0.0	0.173	A				
		3	1	A	53	13	-	-	-	53	52	0.0	0.0	0.000	A		
				B	2	0.42	-	-	-	2	2	0.0	0.0	0.000	A		
				C	295	74	-	-	-	295	293	0.0	0.0	0.000	A		
				D	462	115	-	-	-	462	459	0.0	0.0	0.000	A		
		C	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	334	83	1001	746	0.448	332	338	1.4	1.1	9.860	A	
2	A				263	66	1001	745	0.353	264	265	0.8	0.5	6.939	A		
	B				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C			0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
3	1			A	178	45	1001	743	0.240	178	176	0.5	0.3	6.988	A		
				B	195	49	1001	745	0.262	194	198	0.9	0.6	9.584	A		
				C	2	0.42	272	204	0.008	2	1	0.0	0.0	8.749	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			A	216	54	-	-	-	216	219	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D			334	83	-	-	-	334	336	0.0	0.0	0.009	A			
	2			A	225	56	-	-	-	225	220	0.0	0.0	0.000	A		
				B	195	49	-	-	-	195	196	0.0	0.0	0.000	A		
C				2	0.42	-	-	-	2	1	0.0	0.0	0.000	A			
D	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
D	Entry			1	1	A	116	29	1347	1273	0.091	116	116	0.3	0.1	4.947	A
						B	410	102	1347	1274	0.322	411	408	0.8	0.5	4.882	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	A		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	193	48	1347	1274	0.151	193	191	0.3	0.2	3.457	A			
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		2	1	A	116	29	-	-	-	116	115	0.1	0.0	0.292	A		
				B	410	102	-	-	-	410	407	0.2	0.0	0.297	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		C		193	48	-	-	-	193	191	0.0	0.0	0.047	A			



				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
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# 2035 Scenario 3, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Lane Simulation	Arm A - Lane Simulation	Arm A: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Crossings	Arm D - Pedestrian crossing	Lane Simulation: Pedestrian crossing properties specify gap between crossing and junction entry as 12, but actual storage on lanes is 9.
Warning	Geometry	Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Info	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. For detailed information on this mode, please see the User Guide.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Ifield Roadabout	Standard Roundabout		A, B, C, D	110.30	F

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	110.30	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2035 Scenario 3	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1892	100.000
B		ONE HOUR	✓	1136	100.000
C		ONE HOUR	✓	1246	100.000
D		ONE HOUR	✓	934	100.000

### Demand overview (Pedestrians)

Arm	Profile type	Average pedestrian flow (Ped/hr)
A		
B	[ONEHOUR]	6.00
C		
D	[ONEHOUR]	6.00

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A	B	C	D
From	A	69	268	979	576
	B	70	2	399	665
	C	585	286	2	373
	D	153	487	294	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	3	2	3	4
	B	0	0	3	3
	C	11	4	0	7
	D	5	4	1	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	242.19	156.6	F	1735	2602
B	66.89	25.3	F	1043	1564
C	25.18	10.5	D	1143	1715
D	9.42	2.6	A	855	1282

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1426	356	745		1425	1400	649	0.0	5.9	13.054	B
B	852	213	1417	4.52	847	847	793	0.0	1.6	5.175	A
C	938	234	983		941	935	1253	0.0	2.1	8.781	A
D	702	175	743	4.52	703	705	1220	0.0	0.8	4.456	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1700	425	917		1683	1661	786	5.9	14.7	25.840	D
B	1017	254	1683	5.39	1021	1011	953	1.6	2.9	9.480	A
C	1132	283	1172		1132	1111	1494	2.1	3.9	12.166	B
D	850	212	901	5.39	846	837	1450	0.8	1.5	5.627	A

**17:15 - 17:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	2073	518	1106		1811	1801	948	14.7	85.2	105.799	F
B	1265	316	1840	6.61	1205	1194	1107	2.9	18.1	34.909	D
C	1376	344	1319		1367	1347	1716	3.9	9.8	21.774	C
D	1019	255	1086	6.61	1024	1021	1636	1.5	2.3	8.317	A

**17:30 - 17:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	2096	524	1094		1807	1804	946	85.2	156.6	242.185	F
B	1249	312	1842	6.61	1241	1231	1107	18.1	25.3	66.890	F
C	1364	341	1349		1349	1362	1709	9.8	10.5	25.180	D
D	1016	254	1081	6.61	1024	1026	1659	2.3	2.6	9.417	A

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1688	422	882		1945	1940	798	156.6	96.7	237.944	F
B	1014	253	1895	5.39	1049	1078	970	25.3	10.4	48.286	E
C	1126	282	1273		1121	1145	1651	10.5	4.9	16.433	C
D	840	210	912	5.39	836	844	1533	2.6	1.4	5.991	A

**18:00 - 18:15**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Pedestrian demand (Ped/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
A	1425	356	738		1594	1732	667	96.7	19.4	84.376	F
B	859	215	1568	4.52	871	891	798	10.4	1.8	14.413	B
C	923	231	1092		926	945	1319	4.9	2.6	10.737	B
D	702	176	750	4.52	701	704	1308	1.4	1.0	4.741	A

## Lane Results

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

### Lanes: Main Results for each time segment

16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	498		701	0.710	497	496	0.0	1.8	11.400	B
			2	C	439		701	0.626	439	431	0.0	1.4	9.927	A
			3	A, D	489		701	0.698	489	474	0.0	2.7	17.630	C
	Exit	1	1		649				649	656	0.0	0.0	0.000	A
B	Entry	1	1	C	299		1200	0.249	299	297	0.0	0.4	4.064	A
			2	A, B, D	552		1200	0.460	548	550	0.0	1.2	5.526	A
		2	1	(C)	299	4.52			299	298	0.0	0.0	0.087	A
			2	(A, B, D)	553	4.52			552	555	0.0	0.0	0.193	A
	3	1	((A, B, C, D))	852				852	853	0.0	0.0	0.000	A	
	Exit	1	1		793	4.52			793	786	0.0	0.0	0.133	A
2	1		793				793	786	0.0	0.0	0.000	A		
C	Entry	1	1	D	287		700	0.410	288	281	0.0	0.5	8.909	A
			2	A	268		700	0.382	268	268	0.0	0.6	7.703	A
			3	A, B, C	384		700	0.548	384	385	0.0	1.0	9.408	A
		2	1	(A, D)	509				509	507	0.0	0.0	0.000	A
	2		(A, B, C)	429				429	437	0.0	0.0	0.000	A	
Exit	1	1		1253				1253	1245	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	484		1268	0.381	484	485	0.0	0.6	4.597	A
			2	C, D	218		1268	0.172	219	220	0.0	0.2	3.458	A
		2	1	(A, B)	483	4.52			484	488	0.0	0.0	0.275	A
			2	(C, D)	219	4.52			218	221	0.0	0.0	0.104	A
	Exit	1	1		1221	4.52			1220	1200	0.0	0.1	0.240	A
2	1		1220				1220	1200	0.0	0.0	0.000	A		

## 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	579		655	0.884	574	572	1.8	4.2	21.984	C
			2	C	546		655	0.834	538	531	1.4	3.8	19.871	C
			3	A, D	575		655	0.878	571	558	2.7	6.7	35.497	E
	Exit	1	1		786				786	777	0.0	0.0	0.000	A
B	Entry	1	1	C	356		989	0.361	357	354	0.4	0.6	5.535	A
			2	A, B, D	662		989	0.669	664	657	1.2	1.9	9.870	A
		2	1	(C)	356	5.39			356	354	0.0	0.0	0.074	A
			2	(A, B, D)	661	5.39			662	660	0.0	0.3	1.472	A
	3	1	((A, B, C, D))	1017				1017	1016	0.0	0.1	0.125	A	
	Exit	1	1		953	5.39			953	937	0.0	0.0	0.116	A
2		1		953				953	937	0.0	0.0	0.000	A	
C	Entry	1	1	D	340		642	0.530	340	333	0.5	1.3	12.580	B
			2	A	339		642	0.529	339	331	0.6	1.0	10.287	B
			3	A, B, C	452		642	0.704	452	447	1.0	1.6	13.138	B
		2	1	(A, D)	599				599	596	0.0	0.0	0.023	A
	2		(A, B, C)	533				533	522	0.0	0.0	0.018	A	
	Exit	1	1		1494				1494	1484	0.0	0.0	0.000	A
D	Entry	1	1	A, B	585		1180	0.496	581	576	0.6	1.1	5.885	A
			2	C, D	265		1180	0.225	265	262	0.2	0.3	3.915	A
		2	1	(A, B)	584	5.39			585	578	0.0	0.0	0.521	A
			2	(C, D)	265	5.39			265	262	0.0	0.0	0.054	A
	Exit	1	1		1449	5.39			1450	1422	0.1	0.1	0.313	A
		2	1		1450				1450	1422	0.0	0.0	0.000	A

## 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	678		605	1.121	605	604	4.2	24.8	92.246	F
			2	C	691		605	1.143	617	606	3.8	24.2	88.218	F
			3	A, D	705		605	1.165	589	591	6.7	36.2	136.330	F
	Exit	1	1		948				948	938	0.0	0.0	0.000	A
B	Entry	1	1	C	429		864	0.497	426	429	0.6	1.1	8.688	A
			2	A, B, D	780		864	0.903	778	765	1.9	4.7	19.036	C
		2	1	(C)	430	6.61			429	431	0.0	0.1	0.332	A
			2	(A, B, D)	787	6.61			780	776	0.3	4.7	14.201	B
	3	1	((A, B, C, D))	1265				1217	1225	0.1	7.5	9.420	A	
	Exit	1	1		1107	6.61			1107	1096	0.0	0.0	0.161	A
2		1		1107				1107	1096	0.0	0.0	0.000	A	
C	Entry	1	1	D	414		597	0.693	412	403	1.3	2.6	20.427	C
			2	A	442		597	0.740	439	431	1.0	2.7	18.319	C
			3	A, B, C	517		597	0.866	517	513	1.6	3.6	22.941	C
		2	1	(A, D)	739				738	728	0.0	0.3	0.921	A
	2		(A, B, C)	637				634	640	0.0	0.4	0.991	A	
	Exit	1	1		1716				1716	1707	0.0	0.0	0.000	A
D	Entry	1	1	A, B	697		1077	0.647	698	698	1.1	1.5	7.825	A
			2	C, D	326		1077	0.303	325	323	0.3	0.4	4.739	A
		2	1	(A, B)	693	6.61			697	699	0.0	0.4	2.130	A
			2	(C, D)	326	6.61			326	324	0.0	0.0	0.111	A
	Exit	1	1		1636	6.61			1636	1622	0.1	0.2	0.618	A
		2	1		1636				1636	1622	0.0	0.0	0.000	A

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	692		608	1.138	611	611	24.8	45.1	207.263	F
			2	C	678		608	1.115	600	599	24.2	44.2	205.115	F
			3	A, D	727		608	1.197	596	593	36.2	67.3	311.724	F
	Exit	1	1		946				946	949	0.0	0.0	0.000	A
B	Entry	1	1	C	433		862	0.502	434	432	1.1	1.0	9.758	A
			2	A, B, D	804		862	0.932	807	799	4.7	4.9	22.099	C
		2	1	(C)	432	6.61			433	432	0.1	0.1	0.699	A
			2	(A, B, D)	803	6.61			804	799	4.7	5.6	23.933	C
	3	1	((A, B, C, D))	1249				1235	1235	7.5	13.8	33.169	D	
	Exit	1	1		1107	6.61			1107	1109	0.0	0.1	0.221	A
2		1		1107				1107	1109	0.0	0.0	0.000	A	
C	Entry	1	1	D	400		588	0.680	400	407	2.6	2.5	23.384	C
			2	A	449		588	0.763	443	443	2.7	3.0	20.754	C
			3	A, B, C	513		588	0.873	506	511	3.6	4.2	26.194	D
		2	1	(A, D)	727				728	731	0.3	0.3	1.393	A
	2		(A, B, C)	636				634	634	0.4	0.5	1.726	A	
	Exit	1	1		1709				1709	1707	0.0	0.0	0.000	A
D	Entry	1	1	A, B	703		1079	0.652	705	706	1.5	1.6	8.398	A
			2	C, D	319		1079	0.295	319	320	0.4	0.4	4.933	A
		2	1	(A, B)	698	6.61			703	706	0.4	0.5	3.057	A
			2	(C, D)	319	6.61			319	320	0.0	0.0	0.113	A
	Exit	1	1		1659	6.61			1659	1657	0.2	0.3	0.756	A
		2	1		1659				1659	1657	0.0	0.0	0.000	A

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	567		665	0.853	654	651	45.1	24.0	192.256	F
			2	C	558		665	0.840	641	641	44.2	23.3	191.632	F
			3	A, D	563		665	0.848	650	648	67.3	49.4	328.389	F
	Exit	1	1		798				798	814	0.0	0.0	0.000	A
B	Entry	1	1	C	364		820	0.443	365	372	1.0	0.9	9.252	A
			2	A, B, D	680		820	0.829	684	706	4.9	3.6	20.352	C
		2	1	(C)	364	5.39			364	372	0.1	0.1	0.473	A
			2	(A, B, D)	677	5.39			680	701	5.6	3.0	18.383	C
	3	1	((A, B, C, D))	1014				1041	1063	13.8	2.8	20.416	C	
	Exit	1	1		970	5.39			970	980	0.1	0.1	0.145	A
2		1		970				970	980	0.0	0.0	0.000	A	
C	Entry	1	1	D	341		611	0.557	335	341	2.5	2.0	16.625	C
			2	A	344		611	0.563	345	355	3.0	1.1	13.748	B
			3	A, B, C	442		611	0.723	441	449	4.2	1.8	17.870	C
		2	1	(A, D)	598				599	601	0.3	0.0	0.344	A
	2		(A, B, C)	528				528	525	0.5	0.0	0.245	A	
Exit	1	1		1651				1651	1657	0.0	0.0	0.000	A	
D	Entry	1	1	A, B	569		1174	0.485	567	578	1.6	1.0	6.095	A
			2	C, D	269		1174	0.230	270	266	0.4	0.3	4.221	A
		2	1	(A, B)	570	5.39			569	575	0.5	0.1	0.731	A
			2	(C, D)	270	5.39			269	266	0.0	0.0	0.076	A
	Exit	1	1		1532	5.39			1533	1557	0.3	0.2	0.492	A
2		1		1533				1533	1557	0.0	0.0	0.000	A	

**18:00 - 18:15**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	Entry	1	1	B, C	489		703	0.695	531	575	24.0	2.6	52.740	F
			2	C	440		703	0.625	477	531	23.3	2.3	53.438	F
			3	A, D	496		703	0.706	586	626	49.4	14.5	148.518	F
	Exit	1	1		667				667	681	0.0	0.0	0.000	A
B	Entry	1	1	C	305		1080	0.282	307	309	0.9	0.5	6.357	A
			2	A, B, D	558		1080	0.517	565	582	3.6	1.2	12.076	B
		2	1	(C)	305	4.52			305	307	0.1	0.0	0.154	A
			2	(A, B, D)	556	4.52			558	573	3.0	0.1	4.736	A
	3	1	((A, B, C, D))	859				860	868	2.8	0.0	1.892	A	
	Exit	1	1		798	4.52			798	825	0.1	0.0	0.118	A
2		1		798				798	825	0.0	0.0	0.000	A	
C	Entry	1	1	D	278		667	0.417	278	286	2.0	0.9	11.065	B
			2	A	262		667	0.393	262	274	1.1	0.7	9.348	A
			3	A, B, C	383		667	0.575	386	385	1.8	1.0	11.445	B
		2	1	(A, D)	491				491	500	0.0	0.0	0.009	A
	2		(A, B, C)	432				432	436	0.0	0.0	0.001	A	
	Exit	1	1		1319				1319	1397	0.0	0.0	0.000	A
D	Entry	1	1	A, B	482		1264	0.381	481	482	1.0	0.7	4.958	A
			2	C, D	220		1264	0.174	220	222	0.3	0.3	3.584	A
		2	1	(A, B)	483	4.52			482	481	0.1	0.0	0.314	A
			2	(C, D)	220	4.52			220	222	0.0	0.0	0.060	A
	Exit	1	1		1308	4.52			1308	1369	0.2	0.1	0.281	A
		2	1		1308				1308	1369	0.0	0.0	0.000	A

**Lane movements: Main Results for each time segment**
**16:45 - 17:00**

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	
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	203	51	1098	700	0.290	203	199	0.0	0.8	13.470	B	
				C	295	74	1098	700	0.421	294	297	0.0	1.0	9.993	A	
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	439	110	1098	700	0.627	439	431	0.0	1.4	9.927	A	
				D	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
			3	A	52	13	1098	698	0.074	51	51	0.0	0.3	17.293	C	
				B	0	0	0	0	0.000	0	0	0.000	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.000	0.0	0.0	0.000	A
				D	438	109	1098	701	0.624	438	423	0.0	2.4	17.671	C	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				C	299	75	1193	1201	0.249	299	297	0.0	0.4	4.064	A	
				D	0	0	0	0	0.000	0	0	0.000	0.0	0.0	0.000	A
			2	A	53	13	1193	1207	0.044	52	52	0.0	0.1	5.333	A	
				B	1	0.34	398	411	0.003	1	2	0.0	0.0	7.552	A	
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
				D	498	125	1193	1200	0.415	494	496	0.0	1.0	5.540	A	
			1	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.000	A
				C	299	75	-	-	-	299	298	0.0	0.0	0.087	A	
				D	0	0	0	0	0.000	0	0	0.000	0.0	0.0	0.000	A



C	Entry	2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	53	13	-	-	-	53	53	0.0	0.0	0.171	A	
			B	1	0.34	-	-	-	1	2	0.0	0.0	0.171	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	499	125	-	-	-	498	500	0.0	0.0	0.195	A		
		3	1	A	53	13	-	-	-	53	53	0.0	0.0	0.000	A
				B	1	0.34	-	-	-	1	2	0.0	0.0	0.000	A
				C	299	75	-	-	-	299	298	0.0	0.0	0.000	A
	D			499	125	-	-	-	499	500	0.0	0.0	0.000	A	
	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	287	72	1001	699	0.410	288	281	0.0	0.5	8.909	A
			2	A	268	67	1001	701	0.382	268	268	0.0	0.6	7.703	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
3		A	164	41	1001	703	0.233	164	168	0.0	0.4	7.631	A		
		B	218	55	1001	700	0.312	218	216	0.0	0.6	10.694	B		
		C	2	0.38	274	197	0.008	1	1	0.0	0.0	10.995	B		
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2		1	A	222	56	-	-	-	222	224	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	287	72	-	-	-	287	283	0.0	0.0	0.000	A	
	2	A	209	52	-	-	-	209	217	0.0	0.0	0.000	A		
		B	218	55	-	-	-	218	219	0.0	0.0	0.000	A		
		C	2	0.38	-	-	-	2	1	0.0	0.0	0.000	A		
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
D	Entry	1	A	114	28	1347	1270	0.089	114	116	0.0	0.1	4.435	A	
			B	370	93	1347	1270	0.291	370	369	0.0	0.4	4.648	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	218	55	1347	1269	0.172	219	220	0.0	0.2	3.458	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	2	1	A	113	28	-	-	-	114	117	0.0	0.0	0.258	A	
			B	370	92	-	-	-	370	371	0.0	0.0	0.280	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	219	55	-	-	-	218	221	0.0	0.0	0.104	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

17:00 - 17:15

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	245	61	1098	658	0.372	242	236	0.8	2.0	24.617	C
				C	335	84	1098	660	0.507	332	336	1.0	2.2	20.106	C
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	546	137	1098	655	0.833	538	531	1.4	3.8	19.871	C
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		1	A	61	15	1098	662	0.092	61	60	0.3	0.7	35.443	E	

B	Entry	3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	514	128	1098	657	0.783	510	498	2.4	5.9	35.503	E		
		B	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					C	356	89	1193	993	0.359	357	354	0.4	0.6	5.535	A
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				2	A	63	16	1193	996	0.064	64	64	0.1	0.1	9.999	A
					B	2	0.43	455	398	0.004	2	2	0.0	0.0	10.253	B
					C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
					D	597	149	1193	993	0.601	598	592	1.0	1.8	9.854	A
				2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
B	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
C	356				89	-	-	-	356	354	0.0	0.0	0.074	A		
D	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A	63	16	-	-	-	63	64	0.0	0.0	1.338	A				
	B	2	0.43	-	-	-	2	2	0.0	0.0	1.291	A				
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	D	596	149	-	-	-	597	595	0.0	0.2	1.487	A				
C	Entry	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	340	85	1001	643	0.530	340	333	0.5	1.3	12.580	B		
		2	A	339	85	1001	643	0.528	339	331	0.6	1.0	10.287	B		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		3	A	184	46	1001	642	0.287	185	187	0.4	0.6	10.523	B		
			B	266	66	1001	645	0.412	266	259	0.6	1.0	14.885	B		
			C	2	0.50	381	247	0.008	2	2	0.0	0.0	15.781	C		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	A	258	65	-	-	-	258	261	0.0	0.0	0.004	A				
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	D	340	85	-	-	-	340	336	0.0	0.0	0.038	A				
2	A	266	66	-	-	-	266	260	0.0	0.0	0.001	A				
	B	266	66	-	-	-	266	260	0.0	0.0	0.033	A				
	C	2	0.50	-	-	-	2	2	0.0	0.0	0.000	A				
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
D	Entry	1	A	139	35	1347	1178	0.118	138	135	0.1	0.3	5.875	A		
			B	446	112	1347	1178	0.379	444	440	0.4	0.8	5.889	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			C	265	66	1347	1179	0.225	265	262	0.2	0.3	3.915	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	139	35	-	-	-	139	136	0.0	0.0	0.569	A		
			B	446	111	-	-	-	446	442	0.0	0.0	0.506	A		
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	C	265	66	-	-	-	265	262	0.0	0.0	0.054	A				
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				

				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
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## 17:15 - 17:30

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		
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	291	73	1098	606	0.479	262	258	2.0	10.5	94.933	F		
				C	387	97	1098	607	0.638	344	347	2.2	14.3	90.246	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.000	0	0.0	0.0	0.000	A
				C	691	173	1098	605	1.144	617	606	3.8	24.2	88.218	F		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			3	A	77	19	1098	610	0.125	63	64	0.7	4.0	136.399	F		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	628	157	1098	605	1.039	525	527	5.9	32.2	136.322	F		
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	429	107	1193	861	0.499	426	429	0.6	1.1	8.688	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
			2	A	78	19	1193	870	0.089	77	71	0.1	0.5	18.733	C		
				B	2	0.61	462	335	0.007	2	2	0.0	0.0	21.698	C		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	700	175	1193	862	0.812	699	692	1.8	4.2	19.061	C		
			2	1	A	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
					B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
					C	430	108	-	-	-	429	431	0.0	0.1	0.332	A	
					D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2		A	77	19	-	-	-	78	73	0.0	0.3	14.211	B		
				B	3	0.63	-	-	-	2	2	0.0	0.0	14.316	B		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	708	177	-	-	-	700	701	0.2	4.3	14.200	B		
		3	1	A	81	20	-	-	-	77	74	0.0	0.5	9.999	A		
				B	3	0.66	-	-	-	3	2	0.0	0.0	11.768	B		
				C	446	111	-	-	-	430	432	0.0	2.5	9.195	A		
				D	736	184	-	-	-	708	717	0.0	4.5	9.486	A		
		C	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
						D	414	103	1001	597	0.693	412	403	1.3	2.6	20.427	C
2	A				442	110	1001	597	0.740	439	431	1.0	2.7	18.319	C		
	B				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3	A				199	50	1001	599	0.332	200	201	0.6	1.1	18.369	C		
	B				315	79	1001	596	0.528	314	309	1.0	2.5	25.695	D		
	C				3	0.79	435	260	0.012	3	2	0.0	0.0	23.705	C		
	D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2	1			A	325	81	-	-	-	325	319	0.0	0.1	0.531	A		
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
				D	414	104	-	-	-	414	409	0.0	0.2	1.215	A		
	2			A	317	79	-	-	-	316	322	0.0	0.0	0.435	A		
				B	317	79	-	-	-	315	315	0.0	0.4	1.508	A		
				C	3	0.80	-	-	-	3	2	0.0	0.0	2.792	A		
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
						A	169	42	1347	1077	0.157	170	171	0.3	0.3	7.845	A

D	Entry	1	B	528	132	1347	1077	0.490	529	527	0.8	1.2	7.818	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			C	326	81	1347	1078	0.302	325	323	0.3	0.4	4.739	A
	2	1	A	168	42	-	-	-	169	171	0.0	0.1	2.050	A
			B	526	131	-	-	-	528	528	0.0	0.3	2.155	A
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		2	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
2	1	C	326	81	-	-	-	326	324	0.0	0.0	0.111	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 17:30 - 17:45

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	288	72	1098	611	0.471	257	258	10.5	18.7	208.262	F
				C	404	101	1098	608	0.664	354	353	14.3	26.4	206.531	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	C	678	169	1098	608	1.115	600	599	24.2	44.2	205.115	F	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	82	20	1098	610	0.134	65	64	4.0	7.4	312.572	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	646	161	1098	608	1.062	532	530	32.2	59.9	311.621	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	433	108	1193	864	0.500	434	432	1.1	1.0	9.758	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	77	19	1193	865	0.089	78	77	0.5	0.5	21.960	C
				B	2	0.50	426	310	0.006	2	2	0.0	0.0	19.385	C
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	725	181	1193	862	0.841	727	720	4.2	4.4	22.121	C
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	432	108	-	-	-	433	432	0.1	0.1	0.699	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	75	19	-	-	-	77	77	0.3	0.4	23.995	C	
			B	2	0.52	-	-	-	2	2	0.0	0.0	20.578	C	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	726	182	-	-	-	725	721	4.3	5.1	23.934	C	
		3	1	A	76	19	-	-	-	75	77	0.5	0.9	32.846	D
				B	2	0.43	-	-	-	2	2	0.0	0.0	34.445	D
				C	434	109	-	-	-	432	432	2.5	4.6	32.478	D
				D	737	184	-	-	-	726	724	4.5	8.3	33.612	D
		1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	400	100	1001	587	0.681	400	407	2.6	2.5	23.384	C
2	A		449	112	1001	588	0.763	443	443	2.7	3.0	20.754	C		
	B		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		

C	Entry	3	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			A	198	49	1001	584	0.338	193	196	1.1	1.5	21.316	C	
			B	313	78	1001	584	0.536	311	313	2.5	2.7	29.046	D	
			C	3	0.63	459	269	0.009	2	2	0.0	0.0	30.333	D	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	1	A	328	82	-	-	-	328	324	0.1	0.1	0.729	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
	D			399	100	-	-	-	400	407	0.2	0.2	1.901	A	
	2		A	318	80	-	-	-	319	318	0.0	0.0	0.604	A	
			B	316	79	-	-	-	313	313	0.4	0.4	2.786	A	
			C	3	0.63	-	-	-	3	2	0.0	0.0	2.545	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	D	Entry	1	A	167	42	1347	1082	0.155	168	169	0.3	0.4	8.350	A
				B	536	134	1347	1079	0.497	537	537	1.2	1.3	8.413	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2			A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	319	80	1347	1080	0.295	319	320	0.4	0.4	4.933	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
2		1	A	167	42	-	-	-	167	169	0.1	0.1	2.847	A	
			B	531	133	-	-	-	536	537	0.3	0.4	3.122	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	319	80	-	-	-	319	320	0.0	0.0	0.113	A	
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	

## 17:45 - 18:00

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	246	62	1098	665	0.371	281	274	18.7	10.8	195.833	F
				C	320	80	1098	665	0.482	373	376	26.4	13.2	189.554	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	558	140	1098	664	0.840	641	641	44.2	23.3	191.632	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		3	A	60	15	1098	664	0.090	72	71	7.4	5.2	329.411	F	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	504	126	1098	664	0.758	578	577	59.9	44.2	328.265	F	
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	364	91	1193	822	0.443	365	372	1.0	0.9	9.252	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	64	16	1193	820	0.078	64	67	0.5	0.3	19.966	C
				B	2	0.39	391	272	0.006	2	2	0.0	0.0	18.435	C
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				D	615	154	1193	820	0.750	618	638	4.4	3.2	20.399	C
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	364	91	-	-	-	364	372	0.1	0.1	0.473	A
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
A	63	16	-	-	-	64	66	0.4	0.3	17.913	C				

C	Entry	2	B	2	0.39	-	-	-	2	2	0.0	0.0	16.613	C	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			D	612	153	-	-	-	615	633	5.1	2.7	18.439	C	
		3	1	A	62	15	-	-	-	63	65	0.9	0.2	20.943	C
				B	1	0.36	-	-	-	2	2	0.0	0.0	22.146	C
				C	355	89	-	-	-	364	372	4.6	0.9	19.904	C
	D	596	149	-	-	-	612	623	8.3	1.7	20.660	C			
	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			D	341	85	1001	613	0.556	335	341	2.5	2.0	16.625	C	
			2	A	344	86	1001	610	0.564	345	355	3.0	1.1	13.748	B
B				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
C		0		0	0	0	0.000	0	0	0.0	0.0	0.000	A		
3		A	179	45	1001	607	0.295	179	181	1.5	0.6	13.940	B		
		B	260	65	1001	608	0.427	259	266	2.7	1.2	20.361	C		
		C	2	0.61	351	211	0.012	2	2	0.0	0.0	20.426	C		
D		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
2		1	A	258	64	-	-	-	258	262	0.1	0.0	0.075	A	
	B		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	D	341	85	-	-	-	341	339	0.2	0.0	0.543	A			
	2	A	265	66	-	-	-	265	263	0.0	0.0	0.075	A		
		B	260	65	-	-	-	260	260	0.4	0.0	0.407	A		
C		2	0.61	-	-	-	2	2	0.0	0.0	0.277	A			
D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
D	Entry	1	A	139	35	1347	1177	0.118	138	139	0.4	0.3	6.288	A	
			B	431	108	1347	1174	0.367	429	438	1.3	0.7	6.034	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
			B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
	C		269	67	1347	1174	0.230	270	266	0.4	0.3	4.221	A		
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	2	1	A	139	35	-	-	-	139	139	0.1	0.0	0.704	A	
			B	431	108	-	-	-	431	436	0.4	0.1	0.740	A	
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
2		A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A		
	C	270	67	-	-	-	269	266	0.0	0.0	0.076	A			
D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				

**18:00 - 18:15**

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
A	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	200	50	1098	705	0.284	217	241	10.8	1.2	56.594	F
				C	289	72	1098	704	0.410	314	334	13.2	1.4	50.001	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				C	440	110	1098	704	0.625	477	531	23.3	2.3	53.438	F
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
				A	57	14	1098	705	0.080	64	66	5.2	1.6	146.731	F

		3	B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			D	440	110	1098	703	0.626	522	560	44.2	12.9	148.731	F				
B	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	305	76	1193	1078	0.283	307	309	0.9	0.5	6.357	A			
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			2	A	54	13	1193	1076	0.050	55	58	0.3	0.1	12.260	B			
				B	2	0.45	376	308	0.006	2	2	0.0	0.0	11.307	B			
		C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		D	503	126	1193	1080	0.466	508	523	3.2	1.1	12.057	B					
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				C	305	76	-	-	-	305	307	0.1	0.0	0.154	A			
			D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
			2	A	53	13	-	-	-	54	57	0.3	0.0	4.993	A			
				B	2	0.45	-	-	-	2	1	0.0	0.0	2.512	A			
		C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
		D	501	125	-	-	-	503	514	2.7	0.1	4.714	A					
		3	1	A	53	13	-	-	-	53	56	0.2	0.0	1.940	A			
				B	2	0.45	-	-	-	2	1	0.0	0.0	0.000	A			
				C	304	76	-	-	-	305	307	0.9	0.0	1.917	A			
			D	500	125	-	-	-	501	504	1.7	0.0	1.877	A				
			C	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
							B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
		C					0	0	0	0	0.000	0	0	0.0	0.0	0.000	A	
		D				278	69	1001	671	0.414	278	286	2.0	0.9	11.065	B		
2	A	262				65	1001	671	0.390	262	274	1.1	0.7	9.348	A			
	B	0				0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	C	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
D	0	0			0	0	0.000	0	0	0.0	0.0	0.000	A					
3	1	A			170	42	1001	666	0.255	171	168	0.6	0.4	9.500	A			
		B			212	53	1001	667	0.318	214	216	1.2	0.6	12.861	B			
		C			1	0.30	292	186	0.007	1	1	0.0	0.0	12.811	B			
	D	0			0	0	0	0.000	0	0	0.0	0.0	0.000	A				
	2	A	214	53	-	-	-	214	219	0.0	0.0	0.000	A					
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A					
C		0	0	0	0	0.000	0	0	0.0	0.0	0.000	A						
D	278	69	-	-	-	278	281	0.0	0.0	0.015	A							
2	1	A	218	55	-	-	-	218	221	0.0	0.0	0.000	A					
		B	212	53	-	-	-	212	214	0.0	0.0	0.002	A					
		C	1	0.30	-	-	-	1	1	0.0	0.0	0.000	A					
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A						
	D	Entry	1	1	A	116	29	1347	1266	0.092	116	116	0.3	0.2	4.907	A		
					B	366	92	1347	1265	0.290	365	366	0.7	0.5	4.974	A		
C					0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
D				0	0	0	0	0.000	0	0	0.0	0.0	0.000	A				
2				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A			
	C	220	55	1347	1266	0.173	220	222	0.3	0.3	3.584	A						
D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A							
2	1	A	116	29	-	-	-	116	115	0.0	0.0	0.334	A					
		B	366	92	-	-	-	366	365	0.1	0.0	0.307	A					
		C	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A					
	D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A						
	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A					
		B	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A					
C		220	55	-	-	-	220	222	0.0	0.0	0.060	A						

				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000	A
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