

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
© Copyright TRL Limited, 2017

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Oyster Catcher Junction.j9

Path: P:\14-111 - Land West of Bilsham Road, Yapton\Trans\Picady\LANDLINK 300 UNITS\Oyster Catcher Junction

Report generation date: 27/10/2017 11:48:22

- »2017 Observed, AM
- »2022 Base + Committed, AM
- »2022 Base + Committed + 300, AM
- »2017 Observed, PM
- »2022 Base + Committed, PM
- »2022 Base + Committed + 300, PM

Summary of junction performance

	AM						PM					
	Queue (Veh)	Delay (min)	RFC	LOS	Junction Delay (min)	Network Residual Capacity	Queue (Veh)	Delay (min)	RFC	LOS	Junction Delay (min)	Network Residual Capacity
	2017 Observed											
Stream B-CD	0.1	0.10	0.05	A	0.03	18 % [Stream D-C]	0.1	0.14	0.08	A	0.05	-7 % [Stream D-C]
Stream B-A	0.1	0.22	0.08	B			0.2	0.59	0.19	E		
Stream AB-D	1.1	0.27	0.54	C			1.2	0.26	0.54	C		
Stream D-AB	0.7	0.18	0.41	B			2.5	0.39	0.73	C		
Stream D-C	0.1	0.34	0.13	C			0.5	0.90	0.36	F		
Stream CD-B	0.0	0.12	0.01	A			0.0	0.16	0.03	A		
	2022 Base + Committed											
Stream B-CD	0.1	0.11	0.06	A	0.04	6 % [Stream D-C]	0.2	0.23	0.13	B	0.27	-18 % [Stream D-C]
Stream B-A	0.1	0.27	0.10	C			1.2	3.17	0.62	F		
Stream AB-D	1.6	0.34	0.62	C			2.5	0.44	0.72	D		
Stream D-AB	1.1	0.24	0.54	B			21.6	2.55	1.08	F		
Stream D-C	0.2	0.45	0.18	D			3.7	5.37	0.99	F		
Stream CD-B	0.0	0.13	0.01	A			0.0	0.18	0.03	B		
	2022 Base + Committed + 300											
Stream B-CD	0.1	0.11	0.06	A	0.05	5 % [Stream D-C]	3.7	4.34	1.23	F	0.45	-20 % [Stream D-C]
Stream B-A	0.1	0.28	0.11	C			2.8	6.03	1.04	F		
Stream AB-D	1.8	0.36	0.65	C			3.5	0.56	0.79	D		
Stream D-AB	1.4	0.27	0.59	C			37.8	4.15	1.20	F		
Stream D-C	0.2	0.48	0.19	D			4.7	7.10	1.07	F		
Stream CD-B	0.0	0.13	0.01	A			0.0	0.18	0.03	B		

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	Oyster Catcher Junction
Location	Yapton
Site number	
Date	25/02/2016
Version	
Status	Preliminary
Identifier	
Client	Gleeson Strategic
Jobnumber	14-110
Enumerator	tmoloney [W3559-ODYSSEY]
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	mph	Veh	Veh	perHour	min	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (min)	Queue threshold (PCU)
5.75			✓	Delay	0.85	0.60	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2017 Observed	AM	AM 2016 Base	ONE HOUR	07:45	09:15	15	✓
D2	2022 Base + Committed	AM	AM 2026 Base + Com	ONE HOUR	07:45	09:15	15	✓
D3	2022 Base + Committed + 300	AM	AM 2026 Base + Dev	ONE HOUR	07:45	09:15	15	✓
D4	2017 Observed	PM	PM 2016 Base	ONE HOUR	16:45	18:15	15	✓
D5	2022 Base + Committed	PM	PM 2026 Base + Com	ONE HOUR	16:45	18:15	15	✓
D6	2022 Base + Committed + 300	PM	PM 2026 Base + Dev	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2017 Observed, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (min)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.03	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	18	Stream D-C

Arms

Arms

Arm	Name	Description	Arm type
A	A259 Crookthorne Lane		Major
B	Climping Street		Minor
C	A259 Grevatts Street		Major
D	B2132 Yapton Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	10.60		✓	3.20	120.0		-
C	11.00		✓	3.50	120.0		-

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	10.00	10.00	6.30	4.20	3.20		3.00	240	240
D	One lane plus flare	10.00	10.00	8.10	5.30	4.20		3.00	240	139

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B
1	AB-D	713	-	-	-	-	-	0.221	0.221	0.221	-	-
1	B-A	770	0.110	0.277	0.277	-	-	0.174	0.396	-	0.174	0.396
1	B-CD	897	0.108	0.272	0.272	-	-	-	-	-	-	-
1	CD-B	734	0.223	0.223	0.223	-	-	-	-	-	-	-
1	D-AB	839	-	-	-	-	-	0.260	0.260	0.103	-	-
1	D-C	658	-	0.152	0.346	0.152	0.346	0.242	0.242	0.096	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2017 Observed	AM	AM 2016 Base	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 (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	891	100.000
B		ONE HOUR	✓	51	100.000
C		ONE HOUR	✓	826	100.000
D		ONE HOUR	✓	234	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A	B	C	D
	A	0	6	662	223
	B	21	0	18	12
	C	740	4	0	82
	D	208	2	24	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A	B	C	D
	A	0	0	5	6
	B	0	0	0	0
	C	0	4	0	11
	D	6	0	13	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (min)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-CD	0.05	0.10	0.1	A	28	41
B-A	0.08	0.22	0.1	B	19	29
A-B					6	8
A-C					607	911
A-D					205	307
AB-C					624	936
AB-D	0.54	0.27	1.1	C	216	323
D-AB	0.41	0.18	0.7	B	193	289
D-C	0.13	0.34	0.1	C	22	33
C-D					75	113
C-A					679	1019
C-B					4	6
CD-A					870	1305
CD-B	0.01	0.12	0.0	A	6	8

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	23	6	699	0.032	22	0.0	0.0	0.089	A
B-A	16	4	447	0.035	16	0.0	0.0	0.139	A
A-B	5	1			5				
A-C	498	125			498				
A-D	168	42			168				
AB-C	512	128			512				
AB-D	177	44	544	0.325	175	0.0	0.5	0.162	A
D-AB	158	40	638	0.248	157	0.0	0.3	0.124	A
D-C	18	5	326	0.055	18	0.0	0.1	0.194	B
C-D	62	15			62				
C-A	557	139			557				
C-B	3	0.75			3				
CD-A	712	178			712				
CD-B	5	1	562	0.008	4	0.0	0.0	0.108	A

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	27	7	660	0.041	27	0.0	0.0	0.095	A
B-A	19	5	384	0.049	19	0.0	0.1	0.164	A
A-B	5	1			5				
A-C	595	149			595				
A-D	200	50			200				
AB-C	611	153			611				
AB-D	211	53	518	0.408	210	0.5	0.7	0.195	B
D-AB	189	47	607	0.311	188	0.3	0.4	0.143	A
D-C	22	5	275	0.078	21	0.1	0.1	0.236	B
C-D	74	18			74				
C-A	665	166			665				
C-B	4	0.90			4				
CD-A	852	213			852				
CD-B	5	1	533	0.010	5	0.0	0.0	0.114	A

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	33	8	605	0.055	33	0.0	0.1	0.105	A
B-A	23	6	297	0.078	23	0.1	0.1	0.219	B
A-B	7	2			7				
A-C	729	182			729				
A-D	246	61			246				
AB-C	749	187			749				
AB-D	259	65	483	0.536	257	0.7	1.1	0.264	C
D-AB	231	58	562	0.411	230	0.4	0.7	0.180	B
D-C	26	7	205	0.129	26	0.1	0.1	0.335	C
C-D	90	23			90				
C-A	815	204			815				
C-B	4	1			4				
CD-A	1043	261			1043				
CD-B	7	2	492	0.013	7	0.0	0.0	0.124	A

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	33	8	605	0.055	33	0.1	0.1	0.105	A
B-A	23	6	297	0.078	23	0.1	0.1	0.219	B
A-B	7	2			7				
A-C	729	182			729				
A-D	246	61			246				
AB-C	749	187			749				
AB-D	259	65	483	0.536	259	1.1	1.1	0.268	C
D-AB	231	58	562	0.412	231	0.7	0.7	0.181	B
D-C	26	7	205	0.129	26	0.1	0.1	0.337	C
C-D	90	23			90				
C-A	815	204			815				
C-B	4	1			4				
CD-A	1044	261			1044				
CD-B	7	2	492	0.013	7	0.0	0.0	0.124	A

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	27	7	660	0.041	27	0.1	0.0	0.095	A
B-A	19	5	384	0.049	19	0.1	0.1	0.164	A
A-B	5	1			5				
A-C	595	149			595				
A-D	200	50			200				
AB-C	611	153			611				
AB-D	211	53	518	0.408	213	1.1	0.7	0.198	B
D-AB	189	47	607	0.311	190	0.7	0.5	0.144	A
D-C	22	5	275	0.079	22	0.1	0.1	0.238	B
C-D	74	18			74				
C-A	665	166			665				
C-B	4	0.90			4				
CD-A	853	213			853				
CD-B	5	1	533	0.010	5	0.0	0.0	0.114	A

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	23	6	699	0.032	23	0.0	0.0	0.089	A
B-A	16	4	447	0.035	16	0.1	0.0	0.139	A
A-B	5	1			5				
A-C	498	125			498				
A-D	168	42			168				
AB-C	512	128			512				
AB-D	177	44	544	0.326	178	0.7	0.5	0.164	A
D-AB	158	40	638	0.248	159	0.5	0.3	0.125	A
D-C	18	5	325	0.056	18	0.1	0.1	0.195	B
C-D	62	15			62				
C-A	557	139			557				
C-B	3	0.75			3				
CD-A	714	179			714				
CD-B	5	1	562	0.008	5	0.0	0.0	0.108	A

2022 Base + Committed, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (min)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.04	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	6	Stream D-C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base + Committed	AM	AM 2026 Base + Com	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 (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	980	100.000
B		ONE HOUR	✓	56	100.000
C		ONE HOUR	✓	900	100.000
D		ONE HOUR	✓	289	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A	B	C	D
From	A	0	7	722	251
	B	23	0	20	13
	C	807	4	0	89
	D	260	2	27	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D
From	A	0	0	5	6
	B	0	0	0	0
	C	0	4	0	11
	D	6	0	13	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (min)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-CD	0.06	0.11	0.1	A	30	45
B-A	0.10	0.27	0.1	C	21	32
A-B					6	10
A-C					663	994
A-D					230	345
AB-C					681	1021
AB-D	0.62	0.34	1.6	C	242	363
D-AB	0.54	0.24	1.1	B	240	361
D-C	0.18	0.45	0.2	D	25	37
C-D					82	123
C-A					741	1111
C-B					4	6
CD-A					979	1468
CD-B	0.01	0.13	0.0	A	6	8

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	25	6	679	0.037	25	0.0	0.0	0.092	A
B-A	17	4	411	0.042	17	0.0	0.0	0.152	A
A-B	5	1			5				
A-C	544	136			544				
A-D	189	47			189				
AB-C	559	140			559				
AB-D	199	50	532	0.374	196	0.0	0.6	0.178	B
D-AB	197	49	624	0.316	195	0.0	0.5	0.139	A
D-C	20	5	300	0.068	20	0.0	0.1	0.214	B
C-D	67	17			67				
C-A	608	152			608				
C-B	3	0.75			3				
CD-A	801	200			801				
CD-B	5	1	547	0.008	4	0.0	0.0	0.111	A

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	30	7	636	0.047	30	0.0	0.0	0.099	A
B-A	21	5	342	0.061	21	0.0	0.1	0.187	B
A-B	6	2			6				
A-C	649	162			649				
A-D	226	56			226				
AB-C	667	167			667				
AB-D	237	59	504	0.471	236	0.6	0.9	0.223	B
D-AB	236	59	589	0.400	235	0.5	0.7	0.169	B
D-C	24	6	244	0.100	24	0.1	0.1	0.273	C
C-D	80	20			80				
C-A	725	181			725				
C-B	4	0.90			4				
CD-A	958	240			958				
CD-B	5	1	514	0.010	5	0.0	0.0	0.118	A

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	36	9	574	0.063	36	0.0	0.1	0.112	A
B-A	25	6	245	0.103	25	0.1	0.1	0.272	C
A-B	8	2			8				
A-C	795	199			795				
A-D	276	69			276				
AB-C	817	204			817				
AB-D	291	73	465	0.624	288	0.9	1.6	0.332	C
D-AB	288	72	537	0.537	287	0.7	1.1	0.238	B
D-C	30	7	164	0.181	29	0.1	0.2	0.444	D
C-D	98	24			98				
C-A	889	222			889				
C-B	4	1			4				
CD-A	1173	293			1173				
CD-B	7	2	469	0.014	7	0.0	0.0	0.130	A

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	36	9	574	0.063	36	0.1	0.1	0.112	A
B-A	25	6	245	0.103	25	0.1	0.1	0.273	C
A-B	8	2			8				
A-C	795	199			795				
A-D	276	69			276				
AB-C	817	204			817				
AB-D	291	73	465	0.625	291	1.6	1.6	0.342	C
D-AB	288	72	537	0.538	288	1.1	1.1	0.241	B
D-C	30	7	163	0.182	30	0.2	0.2	0.450	D
C-D	98	24			98				
C-A	889	222			889				
C-B	4	1			4				
CD-A	1175	294			1175				
CD-B	7	2	469	0.014	7	0.0	0.0	0.130	A

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	30	7	636	0.047	30	0.1	0.0	0.099	A
B-A	21	5	341	0.061	21	0.1	0.1	0.187	B
A-B	6	2			6				
A-C	649	162			649				
A-D	226	56			226				
AB-C	667	167			667				
AB-D	237	59	504	0.471	240	1.6	0.9	0.230	B
D-AB	236	59	589	0.400	237	1.1	0.7	0.172	B
D-C	24	6	242	0.100	25	0.2	0.1	0.276	C
C-D	80	20			80				
C-A	725	181			725				
C-B	4	0.90			4				
CD-A	961	240			961				
CD-B	5	1	514	0.011	5	0.0	0.0	0.118	A

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	25	6	679	0.037	25	0.0	0.0	0.092	A
B-A	17	4	411	0.042	17	0.1	0.0	0.152	A
A-B	5	1			5				
A-C	544	136			544				
A-D	189	47			189				
AB-C	559	140			559				
AB-D	199	50	532	0.374	200	0.9	0.6	0.182	B
D-AB	197	49	624	0.316	198	0.7	0.5	0.141	A
D-C	20	5	299	0.068	20	0.1	0.1	0.216	B
C-D	67	17			67				
C-A	608	152			608				
C-B	3	0.75			3				
CD-A	804	201			804				
CD-B	5	1	547	0.008	5	0.0	0.0	0.111	A

2022 Base + Committed + 300, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (min)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.05	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	5	Stream D-C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2022 Base + Committed + 300	AM	AM 2026 Base + Dev	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 (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	990	100.000
B		ONE HOUR	✓	56	100.000
C		ONE HOUR	✓	900	100.000
D		ONE HOUR	✓	315	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A	B	C	D
From	A	0	7	722	261
	B	23	0	20	13
	C	807	4	0	89
	D	286	2	27	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D
From	A	0	0	5	6
	B	0	0	0	0
	C	0	4	0	11
	D	6	0	13	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (min)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-CD	0.06	0.11	0.1	A	30	45
B-A	0.11	0.28	0.1	C	21	32
A-B					6	10
A-C					663	994
A-D					239	359
AB-C					681	1021
AB-D	0.65	0.36	1.8	C	251	377
D-AB	0.59	0.27	1.4	C	264	396
D-C	0.19	0.48	0.2	D	25	37
C-D					82	123
C-A					741	1111
C-B					4	6
CD-A					1003	1504
CD-B	0.01	0.13	0.0	A	6	8

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	25	6	677	0.037	25	0.0	0.0	0.092	A
B-A	17	4	406	0.043	17	0.0	0.0	0.154	A
A-B	5	1			5				
A-C	544	136			544				
A-D	196	49			196				
AB-C	559	140			559				
AB-D	206	52	532	0.388	204	0.0	0.6	0.182	B
D-AB	217	54	625	0.347	215	0.0	0.5	0.146	A
D-C	20	5	297	0.068	20	0.0	0.1	0.217	B
C-D	67	17			67				
C-A	608	152			608				
C-B	3	0.75			3				
CD-A	821	205			821				
CD-B	5	1	545	0.008	4	0.0	0.0	0.111	A

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	30	7	633	0.047	30	0.0	0.0	0.099	A
B-A	21	5	334	0.062	21	0.0	0.1	0.191	B
A-B	6	2			6				
A-C	649	162			649				
A-D	235	59			235				
AB-C	667	167			667				
AB-D	246	62	504	0.489	245	0.6	0.9	0.231	B
D-AB	259	65	590	0.439	258	0.5	0.8	0.180	B
D-C	24	6	239	0.102	24	0.1	0.1	0.279	C
C-D	80	20			80				
C-A	725	181			725				
C-B	4	0.90			4				
CD-A	982	245			982				
CD-B	5	1	512	0.011	5	0.0	0.0	0.118	A

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	36	9	570	0.064	36	0.0	0.1	0.112	A
B-A	25	6	237	0.107	25	0.1	0.1	0.283	C
A-B	8	2			8				
A-C	795	199			795				
A-D	287	72			287				
AB-C	817	204			817				
AB-D	302	75	465	0.648	298	0.9	1.7	0.353	C
D-AB	317	79	537	0.591	315	0.8	1.4	0.267	C
D-C	30	7	157	0.190	29	0.1	0.2	0.469	D
C-D	98	24			98				
C-A	889	222			889				
C-B	4	1			4				
CD-A	1201	300			1201				
CD-B	7	2	467	0.014	7	0.0	0.0	0.130	A

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	36	9	570	0.064	36	0.1	0.1	0.112	A
B-A	25	6	236	0.107	25	0.1	0.1	0.285	C
A-B	8	2			8				
A-C	795	199			795				
A-D	287	72			287				
AB-C	817	204			817				
AB-D	302	75	465	0.648	301	1.7	1.8	0.365	C
D-AB	317	79	536	0.591	317	1.4	1.4	0.273	C
D-C	30	7	155	0.191	30	0.2	0.2	0.477	D
C-D	98	24			98				
C-A	889	222			889				
C-B	4	1			4				
CD-A	1203	301			1203				
CD-B	7	2	467	0.014	7	0.0	0.0	0.130	A

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	30	7	633	0.047	30	0.1	0.0	0.100	A
B-A	21	5	334	0.062	21	0.1	0.1	0.192	B
A-B	6	2			6				
A-C	649	162			649				
A-D	235	59			235				
AB-C	667	167			667				
AB-D	246	62	504	0.489	250	1.8	1.0	0.239	B
D-AB	259	65	589	0.440	261	1.4	0.8	0.184	B
D-C	24	6	237	0.102	25	0.2	0.1	0.283	C
C-D	80	20			80				
C-A	725	181			725				
C-B	4	0.90			4				
CD-A	985	246			985				
CD-B	5	1	512	0.011	5	0.0	0.0	0.118	A

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	25	6	677	0.037	25	0.0	0.0	0.092	A
B-A	17	4	405	0.043	17	0.1	0.0	0.155	A
A-B	5	1			5				
A-C	544	136			544				
A-D	196	49			196				
AB-C	559	140			559				
AB-D	206	52	532	0.388	208	1.0	0.6	0.186	B
D-AB	217	54	624	0.347	218	0.8	0.5	0.148	A
D-C	20	5	296	0.069	20	0.1	0.1	0.218	B
C-D	67	17			67				
C-A	608	152			608				
C-B	3	0.75			3				
CD-A	824	206			824				
CD-B	5	1	545	0.008	5	0.0	0.0	0.111	A

2017 Observed, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (min)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.05	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-7	Stream D-C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2017 Observed	PM	PM 2016 Base	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 (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1358	100.000
B		ONE HOUR	✓	56	100.000
C		ONE HOUR	✓	810	100.000
D		ONE HOUR	✓	404	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A	B	C	D
From	A	0	9	1105	244
	B	22	0	26	8
	C	765	3	0	42
	D	363	7	34	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D
From	A	0	0	2	1
	B	0	0	0	0
	C	0	2	0	19
	D	0	0	29	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (min)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-CD	0.08	0.14	0.1	A	31	47
B-A	0.19	0.59	0.2	E	20	30
A-B					8	12
A-C					1014	1521
A-D					224	336
AB-C					1038	1557
AB-D	0.54	0.26	1.2	C	231	347
D-AB	0.73	0.39	2.5	C	340	509
D-C	0.36	0.90	0.5	F	31	47
C-D					39	58
C-A					702	1053
C-B					3	4
CD-A					1035	1552
CD-B	0.03	0.16	0.0	A	9	14

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	26	6	609	0.042	25	0.0	0.0	0.103	A
B-A	17	4	330	0.050	16	0.0	0.1	0.191	B
A-B	7	2			7				
A-C	832	208			832				
A-D	184	46			184				
AB-C	851	213			851				
AB-D	190	47	572	0.332	188	0.0	0.5	0.155	A
D-AB	279	70	667	0.418	276	0.0	0.7	0.152	A
D-C	26	6	242	0.106	25	0.0	0.1	0.276	C
C-D	32	8			32				
C-A	576	144			576				
C-B	2	0.56			2				
CD-A	846	212			846				
CD-B	7	2	500	0.015	7	0.0	0.0	0.122	A

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	31	8	551	0.056	31	0.0	0.1	0.115	A
B-A	20	5	245	0.081	20	0.1	0.1	0.266	C
A-B	8	2			8				
A-C	993	248			993				
A-D	219	55			219				
AB-C	1017	254			1017				
AB-D	227	57	546	0.415	226	0.5	0.7	0.187	B
D-AB	333	83	628	0.530	331	0.7	1.1	0.201	B
D-C	31	8	186	0.164	30	0.1	0.2	0.383	C
C-D	38	9			38				
C-A	688	172			688				
C-B	3	0.67			3				
CD-A	1013	253			1013				
CD-B	9	2	455	0.020	9	0.0	0.0	0.135	A

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	37	9	462	0.081	37	0.1	0.1	0.141	A
B-A	24	6	127	0.191	24	0.1	0.2	0.577	D
A-B	10	2			10				
A-C	1217	304			1217				
A-D	269	67			269				
AB-C	1245	311			1245				
AB-D	277	69	509	0.545	276	0.7	1.2	0.255	C
D-AB	407	102	562	0.725	402	1.1	2.4	0.363	C
D-C	37	9	105	0.356	36	0.2	0.5	0.855	F
C-D	46	12			46				
C-A	842	211			842				
C-B	3	0.83			3				
CD-A	1237	309			1237				
CD-B	11	3	393	0.028	11	0.0	0.0	0.157	A

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	37	9	461	0.081	37	0.1	0.1	0.142	A
B-A	24	6	126	0.192	24	0.2	0.2	0.588	E
A-B	10	2			10				
A-C	1217	304			1217				
A-D	269	67			269				
AB-C	1245	311			1245				
AB-D	277	69	509	0.545	277	1.2	1.2	0.258	C
D-AB	407	102	560	0.728	407	2.4	2.5	0.389	C
D-C	37	9	104	0.362	37	0.5	0.5	0.903	F
C-D	46	12			46				
C-A	842	211			842				
C-B	3	0.83			3				
CD-A	1241	310			1241				
CD-B	11	3	393	0.028	11	0.0	0.0	0.157	A

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	31	8	549	0.056	31	0.1	0.1	0.116	A
B-A	20	5	244	0.081	20	0.2	0.1	0.269	C
A-B	8	2			8				
A-C	993	248			993				
A-D	219	55			219				
AB-C	1017	254			1017				
AB-D	227	57	546	0.415	228	1.2	0.7	0.190	B
D-AB	333	83	626	0.531	338	2.5	1.2	0.212	B
D-C	31	8	185	0.165	32	0.5	0.2	0.395	C
C-D	38	9			38				
C-A	688	172			688				
C-B	3	0.67			3				
CD-A	1019	255			1019				
CD-B	9	2	455	0.020	9	0.0	0.0	0.135	A

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	26	6	609	0.042	26	0.1	0.0	0.103	A
B-A	17	4	329	0.050	17	0.1	0.1	0.192	B
A-B	7	2			7				
A-C	832	208			832				
A-D	184	46			184				
AB-C	852	213			852				
AB-D	190	47	572	0.332	191	0.7	0.5	0.158	A
D-AB	279	70	666	0.418	280	1.2	0.7	0.156	A
D-C	26	6	241	0.106	26	0.2	0.1	0.279	C
C-D	32	8			32				
C-A	576	144			576				
C-B	2	0.56			2				
CD-A	851	213			851				
CD-B	8	2	500	0.015	8	0.0	0.0	0.122	A

2022 Base + Committed, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (min)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.27	C

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-18	Stream D-C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2022 Base + Committed	PM	PM 2026 Base + Com	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 (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1531	100.000
B		ONE HOUR	✓	61	100.000
C		ONE HOUR	✓	891	100.000
D		ONE HOUR	✓	463	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A	B	C	D
From	A	0	10	1209	312
	B	24	0	28	9
	C	837	3	0	51
	D	417	8	38	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D
From	A	0	0	2	1
	B	0	0	0	0
	C	0	2	0	19
	D	0	0	29	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (min)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-CD	0.13	0.23	0.2	B	34	51
B-A	0.62	3.17	1.2	F	22	33
A-B					9	14
A-C					1109	1664
A-D					286	429
AB-C					1135	1703
AB-D	0.72	0.44	2.5	D	295	442
D-AB	1.08	2.55	21.6	F	390	585
D-C	0.99	5.37	3.7	F	35	52
C-D					47	70
C-A					768	1152
C-B					3	4
CD-A					1150	1725
CD-B	0.03	0.18	0.0	B	10	15

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	28	7	571	0.049	28	0.0	0.1	0.110	A
B-A	18	5	277	0.065	18	0.0	0.1	0.231	B
A-B	8	2			8				
A-C	910	228			910				
A-D	235	59			235				
AB-C	931	233			931				
AB-D	242	60	558	0.433	239	0.0	0.7	0.186	B
D-AB	320	80	647	0.495	316	0.0	1.0	0.179	B
D-C	29	7	205	0.139	28	0.0	0.2	0.337	C
C-D	38	10			38				
C-A	630	158			630				
C-B	2	0.56			2				
CD-A	940	235			940				
CD-B	8	2	471	0.017	8	0.0	0.0	0.130	A

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	33	8	503	0.066	33	0.1	0.1	0.128	A
B-A	22	5	181	0.119	21	0.1	0.1	0.375	C
A-B	9	2			9				
A-C	1087	272			1087				
A-D	280	70			280				
AB-C	1112	278			1112				
AB-D	289	72	529	0.545	287	0.7	1.2	0.246	B
D-AB	382	96	600	0.637	379	1.0	1.7	0.269	C
D-C	34	9	140	0.245	34	0.2	0.3	0.562	D
C-D	46	11			46				
C-A	752	188			752				
C-B	3	0.67			3				
CD-A	1124	281			1124				
CD-B	10	2	420	0.023	10	0.0	0.0	0.146	A

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	41	10	358	0.114	41	0.1	0.1	0.189	B
B-A	26	7	49	0.541	23	0.1	0.9	2.180	F
A-B	11	3			11				
A-C	1331	333			1331				
A-D	344	86			344				
AB-C	1362	340			1362				
AB-D	353	88	489	0.722	349	1.2	2.4	0.412	C
D-AB	468	117	466	1.005	431	1.7	10.8	1.197	F
D-C	42	10	42	0.990	32	0.3	2.8	4.232	F
C-D	56	14			56				
C-A	922	230			922				
C-B	3	0.83			3				
CD-A	1345	336			1345				
CD-B	11	3	350	0.033	11	0.0	0.0	0.177	B

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	41	10	303	0.134	41	0.1	0.2	0.228	B
B-A	26	7	42	0.622	25	0.9	1.2	3.172	F
A-B	11	3			11				
A-C	1331	333			1331				
A-D	344	86			344				
AB-C	1362	340			1362				
AB-D	353	88	489	0.722	353	2.4	2.5	0.436	D
D-AB	468	117	433	1.080	425	10.8	21.6	2.549	F
D-C	42	10	45	0.932	38	2.8	3.7	5.367	F
C-D	56	14			56				
C-A	922	230			922				
C-B	3	0.83			3				
CD-A	1338	335			1338				
CD-B	11	3	350	0.032	11	0.0	0.0	0.177	B

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	33	8	495	0.067	34	0.2	0.1	0.130	A
B-A	22	5	168	0.129	26	1.2	0.2	0.435	D
A-B	9	2			9				
A-C	1087	272			1087				
A-D	280	70			280				
AB-C	1112	278			1112				
AB-D	289	72	529	0.545	294	2.5	1.2	0.260	C
D-AB	382	96	581	0.658	460	21.6	2.1	0.776	E
D-C	34	9	117	0.292	47	3.7	0.4	0.988	F
C-D	46	11			46				
C-A	752	188			752				
C-B	3	0.67			3				
CD-A	1204	301			1204				
CD-B	11	3	421	0.027	11	0.0	0.0	0.147	A

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	28	7	571	0.049	28	0.1	0.1	0.111	A
B-A	18	5	276	0.066	18	0.2	0.1	0.234	B
A-B	8	2			8				
A-C	910	228			910				
A-D	235	59			235				
AB-C	931	233			931				
AB-D	242	60	558	0.433	244	1.2	0.8	0.192	B
D-AB	320	80	645	0.496	324	2.1	1.0	0.189	B
D-C	29	7	203	0.141	30	0.4	0.2	0.347	C
C-D	38	10			38				
C-A	630	158			630				
C-B	2	0.56			2				
CD-A	948	237			948				
CD-B	8	2	471	0.018	8	0.0	0.0	0.130	A

2022 Base + Committed + 300, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (min)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.45	D

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-20	Stream D-C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2022 Base + Committed + 300	PM	PM 2026 Base + Dev	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 (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1563	100.000
B		ONE HOUR	✓	61	100.000
C		ONE HOUR	✓	891	100.000
D		ONE HOUR	✓	477	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A	B	C	D
From	A	0	10	1209	344
	B	24	0	28	9
	C	837	3	0	51
	D	431	8	38	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D
From	A	0	0	2	1
	B	0	0	0	0
	C	0	2	0	19
	D	0	0	29	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (min)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-CD	1.23	4.34	3.7	F	34	51
B-A	1.04	6.03	2.8	F	22	33
A-B					9	14
A-C					1109	1664
A-D					316	473
AB-C					1135	1703
AB-D	0.79	0.56	3.5	D	324	486
D-AB	1.20	4.15	37.8	F	403	604
D-C	1.07	7.10	4.7	F	35	52
C-D					47	70
C-A					768	1152
C-B					3	4
CD-A					1163	1744
CD-B	0.03	0.18	0.0	B	10	15

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	28	7	565	0.049	28	0.0	0.1	0.112	A
B-A	18	5	268	0.067	18	0.0	0.1	0.239	B
A-B	8	2			8				
A-C	910	228			910				
A-D	259	65			259				
AB-C	931	233			931				
AB-D	266	66	558	0.476	262	0.0	0.9	0.200	B
D-AB	331	83	646	0.511	326	0.0	1.0	0.185	B
D-C	29	7	198	0.144	28	0.0	0.2	0.351	C
C-D	38	10			38				
C-A	630	158			630				
C-B	2	0.56			2				
CD-A	951	238			951				
CD-B	8	2	465	0.018	8	0.0	0.0	0.131	A

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	33	8	495	0.067	33	0.1	0.1	0.130	A
B-A	22	5	171	0.126	21	0.1	0.1	0.401	C
A-B	9	2			9				
A-C	1087	272			1087				
A-D	309	77			309				
AB-C	1112	278			1112				
AB-D	317	79	529	0.600	315	0.9	1.4	0.277	C
D-AB	395	99	597	0.661	391	1.0	1.8	0.287	C
D-C	34	9	130	0.262	33	0.2	0.3	0.615	E
C-D	46	11			46				
C-A	752	188			752				
C-B	3	0.67			3				
CD-A	1137	284			1137				
CD-B	10	2	414	0.024	10	0.0	0.0	0.149	A

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	41	10	277	0.147	40	0.1	0.2	0.253	C
B-A	26	7	36	0.731	21	0.1	1.4	3.464	F
A-B	11	3			11				
A-C	1331	333			1331				
A-D	379	95			379				
AB-C	1362	340			1362				
AB-D	389	97	489	0.794	381	1.4	3.3	0.520	D
D-AB	483	121	442	1.093	423	1.8	17.0	1.705	F
D-C	42	10	39	1.075	30	0.3	3.2	4.933	F
C-D	56	14			56				
C-A	922	230			922				
C-B	3	0.83			3				
CD-A	1336	334			1336				
CD-B	11	3	342	0.032	11	0.0	0.0	0.181	B

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	41	10	33	1.232	26	0.2	3.7	4.343	F
B-A	26	7	26	1.035	21	1.4	2.8	6.030	F
A-B	11	3			11				
A-C	1331	333			1331				
A-D	379	95			379				
AB-C	1351	338			1351				
AB-D	385	96	489	0.787	385	3.3	3.5	0.564	D
D-AB	483	121	403	1.200	400	17.0	37.8	4.151	F
D-C	42	10	40	1.050	36	3.2	4.7	7.097	F
C-D	56	14			56				
C-A	922	230			922				
C-B	3	0.83			3				
CD-A	1315	329			1315				
CD-B	11	3	342	0.031	11	0.0	0.0	0.181	B

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	33	8	481	0.069	48	3.7	0.1	0.143	A
B-A	22	5	145	0.149	32	2.8	0.2	0.577	D
A-B	9	2			9				
A-C	1087	272			1087				
A-D	309	77			309				
AB-C	1123	281			1123				
AB-D	321	80	529	0.606	328	3.5	1.6	0.308	C
D-AB	395	99	568	0.695	534	37.8	2.9	2.177	F
D-C	34	9	69	0.496	48	4.7	1.3	3.222	F
C-D	46	11			46				
C-A	752	188			752				
C-B	3	0.67			3				
CD-A	1277	319			1277				
CD-B	12	3	414	0.030	12	0.0	0.0	0.149	A

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (min)	LOS
B-CD	28	7	563	0.049	28	0.1	0.1	0.112	A
B-A	18	5	267	0.068	19	0.2	0.1	0.242	B
A-B	8	2			8				
A-C	910	228			910				
A-D	259	65			259				
AB-C	931	233			931				
AB-D	266	66	558	0.476	268	1.6	0.9	0.209	B
D-AB	331	83	641	0.515	338	2.9	1.1	0.202	B
D-C	29	7	196	0.146	33	1.3	0.2	0.378	C
C-D	38	10			38				
C-A	630	158			630				
C-B	2	0.56			2				
CD-A	962	240			962				
CD-B	8	2	465	0.018	8	0.0	0.0	0.131	A

