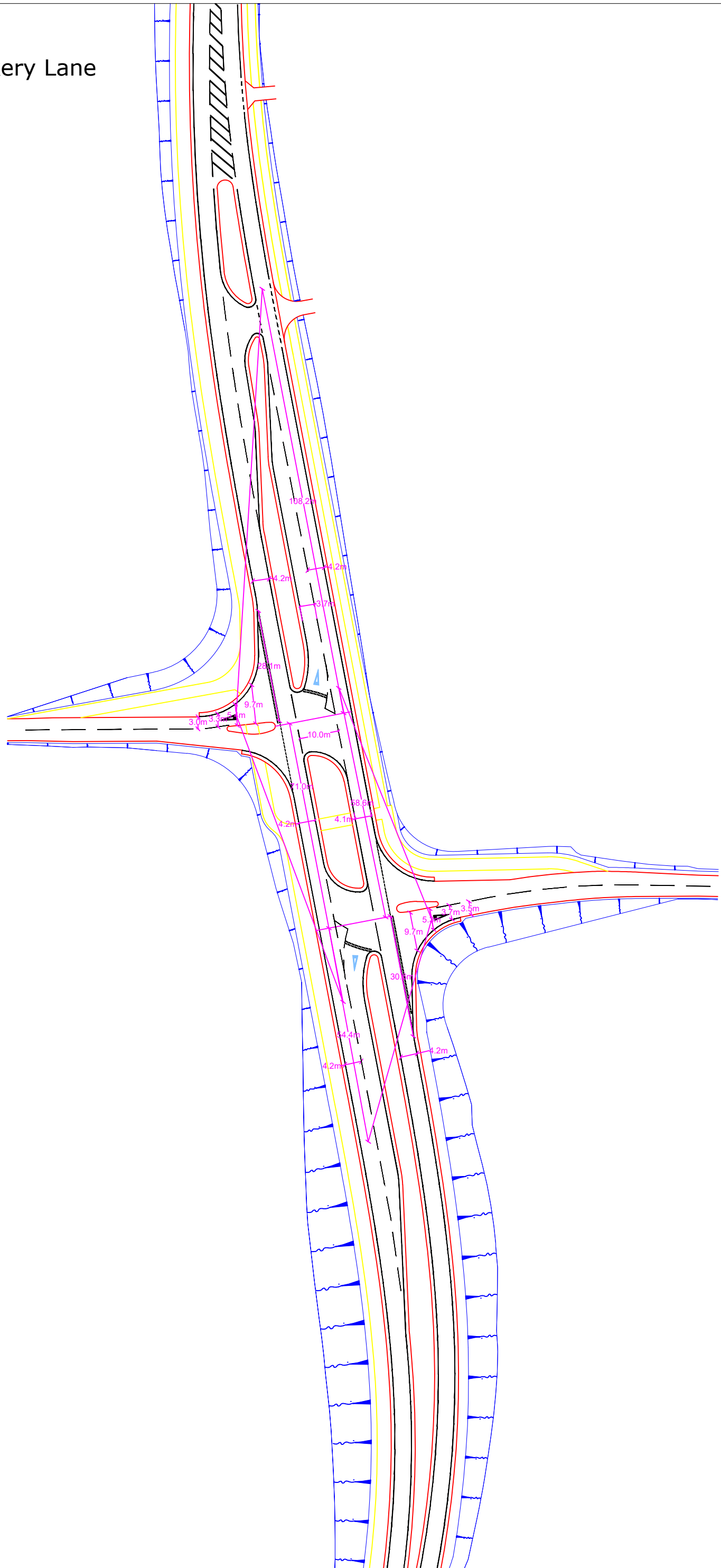


Appendix 53
A508/C26 Rookery Lane/C26 Ashton Road
assessment results

Picady Assessment
Proposed A508/Rookery Lane
Junction
Scale 1:1000@A3



<h1>Junctions 8</h1>
<h2>PICADY 8 - Priority Intersection Module</h2>
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Filename: A508_Rookery Lane_Ashton Rd (Option 2) J1d SLD.arc8

Path: C:\Users\ADCteam\Dropbox\~ JN8 TEMP

Report generation date: 08/05/2018 17:32:20

» (Default Analysis Set) - 2031 J1d development case, AM

» (Default Analysis Set) - 2031 J1d development case, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
A1 - 2031 J1d development case						
Stream B-C	0.00	11.51	0.00	0.01	8.62	0.01
Stream B-AD	0.23	20.82	0.19	0.03	13.99	0.03
Stream A-B	-	-	-	-	-	-
Stream A-C	-	-	-	-	-	-
Stream A-D	1.03	14.50	0.49	2.84	30.49	0.74
Stream D-A	5.19	48.08	0.84	3.68	37.84	0.78
Stream D-BC	0.80	63.34	0.44	0.00	0.00	0.00
Stream C-D	-	-	-	-	-	-
Stream C-A	-	-	-	-	-	-
Stream C-B	0.28	12.28	0.22	0.09	8.34	0.08

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

"D1 - 2031 J1d development case, AM" model duration: 07:45 - 09:15

"D2 - 2031 J1d development case, PM" model duration: 17:45 - 19:15

Run using Junctions 8.0.4.487 at 08/05/2018 17:32:16

File summary

Title	A508/Rookery Lane/Ashton Rd
Location	Northamptonshire
Site Number	
Date	04/08/2017
Version	
Status	(new file)
Identifier	
Client	Roxhill (Junciton 15) Ltd
Jobnumber	
Enumerator	ADCteam
Description	

Analysis Options

Vehicle Length (m)	Do Queue Variations	Calculate Residual Capacity	Residual Capacity Criteria Type	RFC Threshold	Average Delay Threshold (s)	Queue Threshold (PCU)
5.75			N/A	0.85	36.00	20.00

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

(Default Analysis Set) - 2031 J1d development case, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set (s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)	N/A		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	R
2031 J1d development case, AM	2031 J1d development case	AM		ONE HOUR	07:45	09:15	90	15				✓		

Junction Network

Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	(untitled)	OS-NS Stagger (UK RL Stagger)	Two-way	A,B,C,D		33.81	D

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Arm	Name	Description	Arm Type
A	A	A508 N		Major
B	B	Ashton Rd		Minor
C	C	A508 S		Major
D	D	Rookery Lane		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
A	8.30	✓	10.00	✓	3.70	125.00		
C	8.40	✓	10.00	✓	3.70	180.00		

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	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	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	9.65	5.30	3.65	3.50	✓	2.00	54	59
D	One lane plus flare				10.00	9.70	5.40	3.30	3.00	✓	2.00	108	71

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	751.870	-	-	-	0.262	0.262	0.262	-	0.262	-	-
1	B-AD	733.133	0.098	0.247	-	-	-	0.155	0.353	0.155	0.098	0.247
1	B-C	681.778	0.094	0.237	-	-	-	-	-	-	0.094	0.237
1	C-B	788.921	0.274	0.274	-	-	-	-	-	-	0.274	0.274
1	D-A	750.797	-	-	-	0.262	0.104	0.262	-	0.104	-	-
1	D-BC	699.315	0.149	0.149	0.338	0.237	0.094	0.237	-	0.094	-	-

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 Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		✓	✓	HV Percentages	2.30				✓	✓

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
A	ONE HOUR	✓	1557.00	100.000
B	ONE HOUR	✓	38.00	100.000
C	ONE HOUR	✓	793.00	100.000
D	ONE HOUR	✓	422.00	100.000

Turning Proportions

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	0.000	6.000	1315.000	236.000
	B	1.000	0.000	1.000	36.000
	C	717.000	76.000	0.000	0.000
	D	378.000	24.000	20.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	0.00	0.00	0.84	0.15
	B	0.03	0.00	0.03	0.95
	C	0.90	0.10	0.00	0.00
	D	0.90	0.06	0.05	0.00

Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	1.000	1.000	1.165	1.105
	B	1.000	1.000	1.000	1.000
	C	1.244	1.000	1.000	1.000
	D	1.172	1.260	1.000	1.000

Heavy Vehicle Percentages - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	0.0	0.0	12.7	8.1
	B	0.0	0.0	0.0	0.0
	C	18.8	0.0	0.0	0.0
	D	13.2	20.0	0.0	0.0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
B-C	0.00	11.51	0.00	B	0.92	1.38	0.23	9.84	0.00	0.23	9.84
B-AD	0.19	20.82	0.23	C	33.95	50.93	12.72	14.99	0.14	12.72	14.99
A-B	-	-	-	-	5.51	8.26	-	-	-	-	-
A-C	-	-	-	-	1206.67	1810.00	-	-	-	-	-
A-D	0.49	14.50	1.03	B	216.56	324.84	63.17	11.67	0.70	63.18	11.67
D-A	0.84	48.08	5.19	E	346.86	520.29	222.09	25.61	2.47	222.15	25.62
D-BC	0.44	63.34	0.80	F	40.38	60.56	30.60	30.31	0.34	30.60	30.31
C-D	-	-	-	-	0.00	0.00	-	-	-	-	-
C-A	-	-	-	-	657.93	986.90	-	-	-	-	-
C-B	0.22	12.28	0.28	B	69.74	104.61	17.42	9.99	0.19	17.43	9.99

Main Results for each time segment

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	0.75	0.19	0.75	0.00	433.75	0.002	0.00	0.00	8.313	A
B-AD	27.86	6.96	27.54	0.00	378.47	0.074	0.00	0.08	10.249	B
A-B	4.52	1.13	4.52	0.00	-	-	-	-	-	-
A-C	990.00	247.50	990.00	0.00	-	-	-	-	-	-
A-D	177.67	44.42	175.85	0.00	603.05	0.295	0.00	0.45	9.277	A
D-A	284.58	71.14	280.36	0.00	592.17	0.481	0.00	1.05	13.357	B
D-BC	33.13	8.28	32.65	0.00	340.51	0.097	0.00	0.12	13.157	B
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	539.80	134.95	539.80	0.00	-	-	-	-	-	-
C-B	57.22	14.30	56.71	0.00	507.60	0.113	0.00	0.13	7.975	A

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	0.90	0.22	0.90	0.00	384.48	0.002	0.00	0.00	9.384	A
B-AD	33.26	8.32	33.10	0.00	309.37	0.108	0.08	0.12	13.021	B
A-B	5.39	1.35	5.39	0.00	-	-	-	-	-	-
A-C	1182.16	295.54	1182.16	0.00	-	-	-	-	-	-
A-D	212.16	53.04	211.43	0.00	574.08	0.370	0.45	0.64	10.950	B
D-A	339.81	84.95	337.06	0.00	557.47	0.610	1.05	1.74	18.891	C
D-BC	39.56	9.89	39.22	0.00	254.03	0.156	0.12	0.20	18.825	C
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	644.57	161.14	644.57	0.00	-	-	-	-	-	-
C-B	68.32	17.08	68.12	0.00	452.87	0.151	0.13	0.18	9.352	A

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	1.10	0.28	1.10	0.00	314.48	0.004	0.00	0.00	11.487	B
B-AD	40.74	10.18	40.30	0.00	214.06	0.190	0.12	0.23	20.666	C
A-B	6.61	1.65	6.61	0.00	-	-	-	-	-	-
A-C	1447.84	361.96	1447.84	0.00	-	-	-	-	-	-
A-D	259.84	64.96	258.32	0.00	534.10	0.487	0.64	1.02	14.345	B
D-A	416.19	104.05	404.64	0.00	499.69	0.833	1.74	4.63	40.220	E
D-BC	48.44	12.11	46.51	0.00	121.02	0.400	0.20	0.69	53.209	F
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	789.43	197.36	789.43	0.00	-	-	-	-	-	-
C-B	83.68	20.92	83.26	0.00	377.28	0.222	0.18	0.28	12.227	B

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	1.10	0.28	1.10	0.00	313.96	0.004	0.00	0.00	11.506	B
B-AD	40.74	10.18	40.72	0.00	213.60	0.191	0.23	0.23	20.819	C
A-B	6.61	1.65	6.61	0.00	-	-	-	-	-	-
A-C	1447.84	361.96	1447.84	0.00	-	-	-	-	-	-
A-D	259.84	64.96	259.78	0.00	533.99	0.487	1.02	1.03	14.502	B
D-A	416.19	104.05	413.95	0.00	497.17	0.837	4.63	5.19	48.081	E
D-BC	48.44	12.11	47.99	0.00	111.32	0.435	0.69	0.80	63.336	F
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	789.43	197.36	789.43	0.00	-	-	-	-	-	-
C-B	83.68	20.92	83.67	0.00	376.75	0.222	0.28	0.28	12.283	B

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	0.90	0.22	0.90	0.00	383.83	0.002	0.00	0.00	9.400	A
B-AD	33.26	8.32	33.70	0.00	308.70	0.108	0.23	0.12	13.113	B
A-B	5.39	1.35	5.39	0.00	-	-	-	-	-	-
A-C	1182.16	295.54	1182.16	0.00	-	-	-	-	-	-
A-D	212.16	53.04	213.64	0.00	573.92	0.370	1.03	0.66	11.091	B
D-A	339.81	84.95	352.78	0.00	555.59	0.612	5.19	1.94	21.965	C
D-BC	39.56	9.89	41.87	0.00	245.44	0.161	0.80	0.22	20.137	C
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	644.57	161.14	644.57	0.00	-	-	-	-	-	-
C-B	68.32	17.08	68.73	0.00	452.12	0.151	0.28	0.18	9.401	A

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	0.75	0.19	0.76	0.00	433.46	0.002	0.00	0.00	8.321	A
B-AD	27.86	6.96	28.02	0.00	378.06	0.074	0.12	0.08	10.290	B
A-B	4.52	1.13	4.52	0.00	-	-	-	-	-	-
A-C	990.00	247.50	990.00	0.00	-	-	-	-	-	-
A-D	177.67	44.42	178.44	0.00	602.92	0.295	0.66	0.47	9.392	A
D-A	284.58	71.14	287.89	0.00	591.67	0.481	1.94	1.12	14.029	B
D-BC	33.13	8.28	33.52	0.00	337.47	0.098	0.22	0.12	13.364	B
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	539.80	134.95	539.80	0.00	-	-	-	-	-	-
C-B	57.22	14.30	57.42	0.00	507.36	0.113	0.18	0.13	8.006	A

Queueing Delay Results for each time segment
Queueing Delay results: (07:45-08:00)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.02	0.00	8.313	A	A
B-AD	1.13	0.08	10.249	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	6.51	0.43	9.277	A	A
D-A	14.67	0.98	13.357	B	B
D-BC	1.70	0.11	13.157	B	B
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	1.82	0.12	7.975	A	A

Queueing Delay results: (08:00-08:15)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.03	0.00	9.384	A	A
B-AD	1.72	0.11	13.021	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	9.20	0.61	10.950	B	B
D-A	24.23	1.62	18.891	C	B
D-BC	2.89	0.19	18.825	C	B
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	2.56	0.17	9.352	A	A

Queueing Delay results: (08:15-08:30)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.05	0.00	11.487	B	B
B-AD	3.24	0.22	20.666	C	C
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	14.44	0.96	14.345	B	B
D-A	57.28	3.82	40.220	E	D
D-BC	8.94	0.60	53.209	F	D
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	4.04	0.27	12.227	B	B

Queueing Delay results: (08:30-08:45)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.05	0.00	11.506	B	B
B-AD	3.46	0.23	20.819	C	C
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	15.39	1.03	14.502	B	B
D-A	74.32	4.95	48.081	E	D
D-BC	11.41	0.76	63.336	F	E
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	4.23	0.28	12.283	B	B

Queueing Delay results: (08:45-09:00)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.04	0.00	9.400	A	A
B-AD	1.93	0.13	13.113	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	10.36	0.69	11.091	B	B
D-A	33.77	2.25	21.965	C	C
D-BC	3.69	0.25	20.137	C	C
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	2.80	0.19	9.401	A	A

Queueing Delay results: (09:00-09:15)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.03	0.00	8.321	A	A
B-AD	1.25	0.08	10.290	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	7.27	0.48	9.392	A	A
D-A	17.81	1.19	14.029	B	B
D-BC	1.96	0.13	13.364	B	B
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	1.98	0.13	8.006	A	A

(Default Analysis Set) - 2031 J1d development case, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set (s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)	N/A		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	R
2031 J1d development case, PM	2031 J1d development case	PM		ONE HOUR	17:45	19:15	90	15				✓		

Junction Network

Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	(untitled)	OS-NS Stagger (UK RL Stagger)	Two-way	A,B,C,D		32.68	D

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Arm	Name	Description	Arm Type
A	A	A508 N		Major
B	B	Ashton Rd		Minor
C	C	A508 S		Major
D	D	Rookery Lane		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
A	8.30	✓	10.00	✓	3.70	125.00		
C	8.40	✓	10.00	✓	3.70	180.00		

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	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	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	9.65	5.30	3.65	3.50	✓	2.00	54	59
D	One lane plus flare				10.00	9.70	5.40	3.30	3.00	✓	2.00	108	71

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	751.870	-	-	-	0.262	0.262	0.262	-	0.262	-	-
1	B-AD	719.971	0.096	0.243	-	-	-	0.153	0.347	0.153	0.096	0.243
1	B-C	704.383	0.097	0.244	-	-	-	-	-	-	0.097	0.244
1	C-B	788.921	0.274	0.274	-	-	-	-	-	-	0.274	0.274
1	D-A	752.980	-	-	-	0.263	0.104	0.263	-	0.104	-	-
1	D-BC	695.664	0.148	0.148	0.337	0.236	0.093	0.236	-	0.093	-	-

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 Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		✓	✓	HV Percentages	2.30				✓	✓

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
A	ONE HOUR	✓	1372.00	100.000
B	ONE HOUR	✓	8.00	100.000
C	ONE HOUR	✓	1001.00	100.000
D	ONE HOUR	✓	336.00	100.000

Turning Proportions

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	0.000	10.000	1044.000	318.000
	B	1.000	0.000	2.000	5.000
	C	965.000	36.000	0.000	0.000
	D	336.000	0.000	0.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	0.00	0.01	0.76	0.23
	B	0.13	0.00	0.25	0.63
	C	0.96	0.04	0.00	0.00
	D	1.00	0.00	0.00	0.00

Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	1.000	1.000	1.109	1.046
	B	1.000	1.000	1.000	1.000
	C	1.124	1.000	1.000	1.000
	D	1.120	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction 1 (for whole period)

		To			
		A	B	C	D
From	A	0.0	0.0	8.4	3.5
	B	0.0	0.0	0.0	0.0
	C	9.5	0.0	0.0	0.0
	D	9.2	0.0	0.0	0.0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
B-C	0.01	8.62	0.01	A	1.84	2.75	0.36	7.82	0.00	0.36	7.82
B-AD	0.03	13.99	0.03	B	5.51	8.26	1.56	11.30	0.02	1.56	11.30
A-B	-	-	-	-	9.18	13.76	-	-	-	-	-
A-C	-	-	-	-	957.99	1436.99	-	-	-	-	-
A-D	0.74	30.49	2.84	D	291.80	437.70	139.10	19.07	1.55	139.13	19.07
D-A	0.78	37.84	3.68	E	308.32	462.48	172.24	22.35	1.91	172.28	22.35
D-BC	0.00	0.00	0.00	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-D	-	-	-	-	0.00	0.00	-	-	-	-	-
C-A	-	-	-	-	885.50	1328.25	-	-	-	-	-
C-B	0.08	8.34	0.09	A	33.03	49.55	6.14	7.44	0.07	6.14	7.44

Main Results for each time segment

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	1.51	0.38	1.49	0.00	510.13	0.003	0.00	0.00	7.077	A
B-AD	4.52	1.13	4.47	0.00	408.22	0.011	0.00	0.01	8.915	A
A-B	7.53	1.88	7.53	0.00	-	-	-	-	-	-
A-C	785.98	196.49	785.98	0.00	-	-	-	-	-	-
A-D	239.41	59.85	236.36	0.00	560.22	0.427	0.00	0.76	11.518	B
D-A	252.96	63.24	249.38	0.00	561.65	0.450	0.00	0.89	12.768	B
D-BC	0.00	0.00	0.00	0.00	325.77	0.000	0.00	0.00	0.000	A
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	726.50	181.63	726.50	0.00	-	-	-	-	-	-
C-B	27.10	6.78	26.91	0.00	571.70	0.047	0.00	0.05	6.607	A

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	1.80	0.45	1.79	0.00	472.24	0.004	0.00	0.00	7.651	A
B-AD	5.39	1.35	5.38	0.00	347.65	0.016	0.01	0.02	10.518	B
A-B	8.99	2.25	8.99	0.00	-	-	-	-	-	-
A-C	938.53	234.63	938.53	0.00	-	-	-	-	-	-
A-D	285.88	71.47	284.06	0.00	523.01	0.547	0.76	1.22	15.628	C
D-A	302.06	75.51	299.81	0.00	524.50	0.576	0.89	1.46	17.754	C
D-BC	0.00	0.00	0.00	0.00	252.94	0.000	0.00	0.00	0.000	A
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	867.52	216.88	867.52	0.00	-	-	-	-	-	-
C-B	32.36	8.09	32.30	0.00	529.53	0.061	0.05	0.06	7.240	A

Main results: (18:15-18:30)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	2.20	0.55	2.20	0.00	419.67	0.005	0.00	0.01	8.623	A
B-AD	6.61	1.65	6.57	0.00	263.96	0.025	0.02	0.03	13.984	B
A-B	11.01	2.75	11.01	0.00	-	-	-	-	-	-
A-C	1149.47	287.37	1149.47	0.00	-	-	-	-	-	-
A-D	350.12	87.53	344.20	0.00	471.58	0.742	1.22	2.70	28.294	D
D-A	369.94	92.49	362.01	0.00	473.15	0.782	1.46	3.44	34.041	D
D-BC	0.00	0.00	0.00	0.00	153.06	0.000	0.00	0.00	0.000	A
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	1062.48	265.62	1062.48	0.00	-	-	-	-	-	-
C-B	39.64	9.91	39.53	0.00	471.24	0.084	0.06	0.09	8.337	A

Main results: (18:30-18:45)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	2.20	0.55	2.20	0.00	419.61	0.005	0.01	0.01	8.624	A
B-AD	6.61	1.65	6.61	0.00	263.94	0.025	0.03	0.03	13.988	B
A-B	11.01	2.75	11.01	0.00	-	-	-	-	-	-
A-C	1149.47	287.37	1149.47	0.00	-	-	-	-	-	-
A-D	350.12	87.53	349.57	0.00	471.57	0.742	2.70	2.84	30.489	D
D-A	369.94	92.49	368.97	0.00	473.15	0.782	3.44	3.68	37.836	E
D-BC	0.00	0.00	0.00	0.00	151.06	0.000	0.00	0.00	0.000	A
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	1062.48	265.62	1062.48	0.00	-	-	-	-	-	-
C-B	39.64	9.91	39.63	0.00	471.24	0.084	0.09	0.09	8.340	A

Main results: (18:45-19:00)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	1.80	0.45	1.80	0.00	472.14	0.004	0.01	0.00	7.653	A
B-AD	5.39	1.35	5.43	0.00	347.62	0.016	0.03	0.02	10.523	B
A-B	8.99	2.25	8.99	0.00	-	-	-	-	-	-
A-C	938.53	234.63	938.53	0.00	-	-	-	-	-	-
A-D	285.88	71.47	291.99	0.00	523.00	0.547	2.84	1.31	16.693	C
D-A	302.06	75.51	310.42	0.00	524.50	0.576	3.68	1.59	19.495	C
D-BC	0.00	0.00	0.00	0.00	250.14	0.000	0.00	0.00	0.000	A
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	867.52	216.88	867.52	0.00	-	-	-	-	-	-
C-B	32.36	8.09	32.47	0.00	529.53	0.061	0.09	0.07	7.243	A

Main results: (19:00-19:15)

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)	Delay (s)	LOS
B-C	1.51	0.38	1.51	0.00	510.05	0.003	0.00	0.00	7.078	A
B-AD	4.52	1.13	4.54	0.00	408.15	0.011	0.02	0.01	8.921	A
A-B	7.53	1.88	7.53	0.00	-	-	-	-	-	-
A-C	785.98	196.49	785.98	0.00	-	-	-	-	-	-
A-D	239.41	59.85	241.45	0.00	560.21	0.427	1.31	0.80	11.883	B
D-A	252.96	63.24	255.55	0.00	561.64	0.450	1.59	0.94	13.275	B
D-BC	0.00	0.00	0.00	0.00	324.00	0.000	0.00	0.00	0.000	A
C-D	0.00	0.00	0.00	0.00	-	-	-	-	-	-
C-A	726.50	181.63	726.50	0.00	-	-	-	-	-	-
C-B	27.10	6.78	27.16	0.00	571.70	0.047	0.07	0.05	6.611	A

Queueing Delay Results for each time segment
Queueing Delay results: (17:45-18:00)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.04	0.00	7.077	A	A
B-AD	0.16	0.01	8.915	A	A
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	10.74	0.72	11.518	B	B
D-A	12.51	0.83	12.768	B	B
D-BC	0.00	0.00	0.000	A	A
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	0.72	0.05	6.607	A	A

Queueing Delay results: (18:00-18:15)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.06	0.00	7.651	A	A
B-AD	0.23	0.02	10.518	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	17.16	1.14	15.628	C	B
D-A	20.39	1.36	17.754	C	B
D-BC	0.00	0.00	0.000	A	A
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	0.95	0.06	7.240	A	A

Queueing Delay results: (18:15-18:30)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.08	0.01	8.623	A	A
B-AD	0.37	0.02	13.984	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	35.49	2.37	28.294	D	C
D-A	44.13	2.94	34.041	D	C
D-BC	0.00	0.00	0.000	A	A
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	1.33	0.09	8.337	A	A

Queueing Delay results: (18:30-18:45)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.08	0.01	8.624	A	A
B-AD	0.38	0.03	13.988	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	41.71	2.78	30.489	D	C
D-A	53.72	3.58	37.836	E	D
D-BC	0.00	0.00	0.000	A	A
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	1.37	0.09	8.340	A	A

Queueing Delay results: (18:45-19:00)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.06	0.00	7.653	A	A
B-AD	0.25	0.02	10.523	B	B
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	21.41	1.43	16.693	C	B
D-A	26.55	1.77	19.495	C	B
D-BC	0.00	0.00	0.000	A	A
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	1.01	0.07	7.243	A	A

Queueing Delay results: (19:00-19:15)

Stream	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (s)	Unsignalised Level Of Service	Signalised Level Of Service
B-C	0.05	0.00	7.078	A	A
B-AD	0.17	0.01	8.921	A	A
A-B	-	-	-	-	-
A-C	-	-	-	-	-
A-D	12.59	0.84	11.883	B	B
D-A	14.94	1.00	13.275	B	B
D-BC	0.00	0.00	0.000	A	A
C-D	-	-	-	-	-
C-A	-	-	-	-	-
C-B	0.77	0.05	6.611	A	A

