

Junctions 9															
PICADY 9 - Priority Intersection Module															
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Filename: EXISTING ONLY - High Street - Mid Street - Park Works Road junction.j9

Path: O:\London\Vectos\Projects\Projects\220000\226799 - Nutfield Green Park\MODELLING\Junctions\High Street - Mid Street - Park Works Road Junction\240821 - UPDATE (crossing)\Existing Only

Report generation date: 23/08/2024 12:17:09

- »2024 Base + Com Dev, AM (08:00-09:00)
- »2024 Base + Com Dev, PM (17:00-18:00)
- »2024 Base + Com Dev, PM (16:00-17:00)
- »2029 Future Base + Com Dev, AM (08:00-09:00)
- »2029 Future Base + Com Dev, PM (17:00-18:00)
- »2029 Future Base + Com Dev, PM (16:00-17:00)

Summary of junction performance

	AM (08:00-09:00)					PM (17:00-18:00)					PM (16:00-17:00)				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2024 Base + Com Dev														
Stream B-CD	D1	0.4	14.90	0.30	B	D2	0.5	22.85	0.36	C	D3	0.7	22.07	0.40	C
Stream B-A		1.5	32.56	0.60	D		3.7	55.50	0.81	F		3.4	49.69	0.79	E
Stream AB-CD		0.0	4.13	0.01	A		0.0	4.90	0.01	A		0.0	4.80	0.01	A
Stream D-ABC		0.0	8.03	0.01	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream CD-AB		0.6	7.07	0.26	A		1.0	5.78	0.35	A		0.6	5.05	0.23	A
	2029 Future Base + Com Dev														
Stream B-CD	D4	0.5	16.52	0.33	C	D5	0.9	35.75	0.48	E	D6	0.9	31.47	0.50	D
Stream B-A		1.7	37.26	0.64	E		4.8	70.84	0.86	F		4.4	62.48	0.84	F
Stream AB-CD		0.0	4.09	0.01	A		0.0	4.87	0.01	A		0.0	4.77	0.01	A
Stream D-ABC		0.0	8.12	0.01	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream CD-AB		0.7	7.18	0.27	A		1.1	5.88	0.37	A		0.6	5.08	0.24	A

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

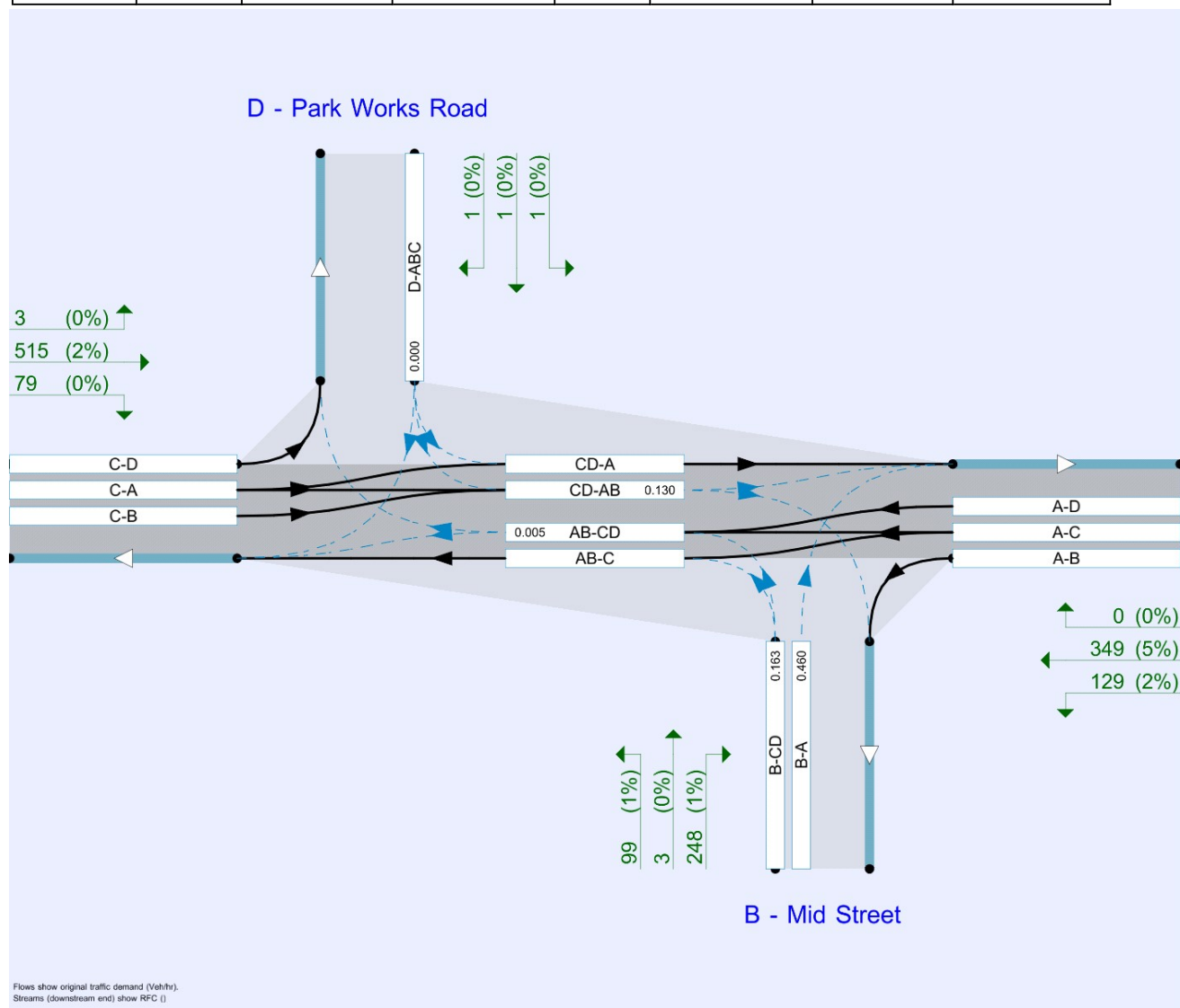
File summary

File Description

Title	
Location	
Site number	
Date	27/03/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	SLR\ethan.terry
Description	

Units

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



Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base + Com Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15
D2	2024 Base + Com Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15
D3	2024 Base + Com Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15
D4	2029 Future Base + Com Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15
D5	2029 Future Base + Com Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15
D6	2029 Future Base + Com Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base + Com Dev, AM (08:00-09:00)

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		2.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	High Street (E)		Major
B	Mid Street		Minor
C	High Street (W)		Major
D	Park Works Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - High Street (E)	6.52			105.3	✓	0.00
C - High Street (W)	6.75			182.7	✓	0.00

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)	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 - Mid Street	One lane plus flare		10.00	6.31	4.76	4.34	3.50	✓	2.00	48	37
D - Park Works Road	One lane	2.90								20	17

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

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
AB-D	635	-	-	-	-	-	0.240	0.240	0.240	-	-
B-A	558	0.098	0.249	0.249	-	-	0.156	0.355	-	0.156	0.355
B-CD	654	0.097	0.245	0.245	-	-	-	-	-	-	-
CD-B	680	0.255	0.255	0.255	-	-	-	-	-	-	-
D-AB	629	-	-	-	-	-	0.238	0.238	0.094	-	-
D-C	488	-	0.138	0.313	0.138	0.313	0.219	0.219	0.087	-	-

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	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base + Com Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	817	100.000
B - Mid Street		✓	246	100.000
C - High Street (W)		✓	391	100.000
D - Park Works Road		✓	6	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	278	536	3
	B - Mid Street	151	0	94	1
	C - High Street (W)	312	78	0	1
	D - Park Works Road	2	3	1	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	3	4	0
	B - Mid Street	1	0	3	0
	C - High Street (W)	11	1	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.30	14.90	0.4	B
B-A	0.60	32.56	1.5	D
A-B				
A-C				
A-D				
AB-CD	0.01	4.13	0.0	A
AB-C				
D-ABC	0.01	8.03	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.26	7.07	0.6	A
CD-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	72	471	0.152	71	0.2	8.976	A
B-A	114	365	0.311	112	0.4	14.114	B
A-B	209			209			
A-C	404			404			
A-D	2			2			
AB-CD	7	879	0.007	6	0.0	4.125	A
AB-C	470			470			
D-ABC	5	503	0.009	4	0.0	7.218	A
C-D	0.75			0.75			
C-A	235			235			
C-B	59			59			
CD-AB	94	674	0.139	93	0.3	6.191	A
CD-A	203			203			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	85	430	0.199	85	0.2	10.442	B
B-A	136	328	0.414	135	0.7	18.509	C
A-B	250			250			
A-C	482			482			
A-D	3			3			
AB-CD	9	932	0.010	9	0.0	3.898	A
AB-C	561			561			
D-ABC	5	483	0.011	5	0.0	7.532	A
C-D	0.90			0.90			
C-A	280			280			
C-B	70			70			
CD-AB	125	680	0.184	125	0.4	6.467	A
CD-A	230			230			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	105	350	0.299	104	0.4	14.577	B
B-A	166	276	0.602	163	1.4	31.146	D
A-B	306			306			
A-C	590			590			
A-D	3			3			
AB-CD	14	1006	0.014	14	0.0	3.623	A
AB-C	683			683			
D-ABC	7	455	0.015	7	0.0	8.032	A
C-D	1			1			
C-A	344			344			
C-B	86			86			
CD-AB	179	691	0.260	178	0.6	7.014	A
CD-A	255			255			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	105	346	0.302	105	0.4	14.897	B
B-A	166	276	0.602	166	1.5	32.555	D
A-B	306			306			
A-C	590			590			
A-D	3			3			
AB-CD	14	1007	0.014	14	0.0	3.628	A
AB-C	684			684			
D-ABC	7	455	0.015	7	0.0	8.033	A
C-D	1			1			
C-A	344			344			
C-B	86			86			
CD-AB	180	691	0.260	180	0.6	7.068	A
CD-A	255			255			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	85	426	0.200	86	0.3	10.604	B
B-A	136	328	0.413	139	0.7	19.252	C
A-B	250			250			
A-C	482			482			
A-D	3			3			
AB-CD	9	932	0.010	9	0.0	3.908	A
AB-C	561			561			
D-ABC	5	483	0.011	5	0.0	7.533	A
C-D	0.90			0.90			
C-A	280			280			
C-B	70			70			
CD-AB	125	680	0.184	126	0.4	6.560	A
CD-A	230			230			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	72	469	0.152	72	0.2	9.061	A
B-A	114	365	0.311	115	0.5	14.439	B
A-B	209			209			
A-C	404			404			
A-D	2			2			
AB-CD	7	880	0.007	7	0.0	4.129	A
AB-C	471			471			
D-ABC	5	503	0.009	5	0.0	7.219	A
C-D	0.75			0.75			
C-A	235			235			
C-B	59			59			
CD-AB	94	674	0.140	95	0.3	6.250	A
CD-A	203			203			

2024 Base + Com Dev, PM (17:00-18:00)

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		6.29	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2024 Base + Com Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	467	100.000
B - Mid Street		✓	312	100.000
C - High Street (W)		✓	670	100.000
D - Park Works Road		✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	120	346	1
	B - Mid Street	233	0	78	1
	C - High Street (W)	558	110	0	2
	D - Park Works Road	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	1	3	0
	B - Mid Street	0	0	0	0
	C - High Street (W)	2	2	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.36	22.85	0.5	C
B-A	0.81	55.50	3.7	F
A-B				
A-C				
A-D				
AB-CD	0.01	4.90	0.0	A
AB-C				
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.35	5.78	1.0	A
CD-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	59	477	0.125	59	0.1	8.602	A
B-A	175	403	0.435	172	0.7	15.423	C
A-B	90			90			
A-C	260			260			
A-D	0.75			0.75			
AB-CD	3	737	0.004	3	0.0	4.900	A
AB-C	318			318			
D-ABC	0	399	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	420			420			
C-B	83			83			
CD-AB	162	859	0.189	160	0.4	5.150	A
CD-A	341			341			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	71	419	0.169	71	0.2	10.326	B
B-A	209	367	0.570	207	1.3	22.231	C
A-B	108			108			
A-C	311			311			
A-D	0.90			0.90			
AB-CD	4	763	0.005	4	0.0	4.739	A
AB-C	379			379			
D-ABC	0	369	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	502			502			
C-B	99			99			
CD-AB	224	902	0.248	223	0.6	5.311	A
CD-A	377			377			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	87	266	0.327	86	0.5	19.886	C
B-A	257	317	0.809	248	3.3	47.383	E
A-B	132			132			
A-C	381			381			
A-D	1			1			
AB-CD	5	799	0.007	5	0.0	4.528	A
AB-C	463			463			
D-ABC	0	326	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	614			614			
C-B	121			121			
CD-AB	337	964	0.349	335	1.0	5.744	A
CD-A	399			399			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	87	244	0.357	87	0.5	22.850	C
B-A	257	317	0.809	255	3.7	55.498	F
A-B	132			132			
A-C	381			381			
A-D	1			1			
AB-CD	5	800	0.007	5	0.0	4.531	A
AB-C	463			463			
D-ABC	0	326	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	614			614			
C-B	121			121			
CD-AB	338	965	0.350	338	1.0	5.776	A
CD-A	398			398			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	71	405	0.175	72	0.2	10.870	B
B-A	209	367	0.570	219	1.4	25.506	D
A-B	108			108			
A-C	311			311			
A-D	0.90			0.90			
AB-CD	4	764	0.005	4	0.0	4.744	A
AB-C	381			381			
D-ABC	0	369	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	502			502			
C-B	99			99			
CD-AB	225	904	0.249	227	0.6	5.348	A
CD-A	376			376			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	59	473	0.126	60	0.1	8.727	A
B-A	175	403	0.436	178	0.8	16.170	C
A-B	90			90			
A-C	260			260			
A-D	0.75			0.75			
AB-CD	3	738	0.004	3	0.0	4.901	A
AB-C	318			318			
D-ABC	0	399	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	420			420			
C-B	83			83			
CD-AB	163	860	0.190	164	0.4	5.186	A
CD-A	340			340			

2024 Base + Com Dev, PM (16:00-17:00)

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		6.17	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D3	2024 Base + Com Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	463	100.000
B - Mid Street		✓	339	100.000
C - High Street (W)		✓	579	100.000
D - Park Works Road		✓	3	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	125	338	0
	B - Mid Street	240	0	96	3
	C - High Street (W)	499	77	0	3
	D - Park Works Road	1	1	1	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	2	5	0
	B - Mid Street	1	0	1	0
	C - High Street (W)	2	0	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.40	22.07	0.7	C
B-A	0.79	49.69	3.4	E
A-B				
A-C				
A-D				
AB-CD	0.01	4.80	0.0	A
AB-C				
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.23	5.05	0.6	A
CD-A				

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	75	478	0.156	74	0.2	8.879	A
B-A	181	411	0.440	178	0.8	15.259	C
A-B	94			94			
A-C	254			254			
A-D	0			0			
AB-CD	4	755	0.005	4	0.0	4.794	A
AB-C	324			324			
D-ABC	0	414	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	376			376			
C-B	58			58			
CD-AB	105	838	0.125	104	0.3	4.909	A
CD-A	329			329			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	89	423	0.210	89	0.3	10.755	B
B-A	216	379	0.570	214	1.3	21.555	C
A-B	112			112			
A-C	304			304			
A-D	0			0			
AB-CD	5	783	0.007	5	0.0	4.623	A
AB-C	387			387			
D-ABC	0	387	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	449			449			
C-B	69			69			
CD-AB	143	873	0.164	143	0.4	4.927	A
CD-A	375			375			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	109	288	0.378	108	0.6	19.792	C
B-A	264	333	0.793	257	3.1	43.388	E
A-B	138			138			
A-C	372			372			
A-D	0			0			
AB-CD	8	824	0.009	8	0.0	4.406	A
AB-C	472			472			
D-ABC	0	349	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	549			549			
C-B	85			85			
CD-AB	210	925	0.227	209	0.6	5.035	A
CD-A	424			424			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	109	271	0.402	109	0.7	22.073	C
B-A	264	333	0.794	263	3.4	49.686	E
A-B	138			138			
A-C	372			372			
A-D	0			0			
AB-CD	8	824	0.010	8	0.0	4.410	A
AB-C	473			473			
D-ABC	0	349	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	549			549			
C-B	85			85			
CD-AB	211	925	0.228	210	0.6	5.051	A
CD-A	424			424			

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	89	411	0.217	90	0.3	11.277	B
B-A	216	379	0.569	224	1.4	24.278	C
A-B	112			112			
A-C	304			304			
A-D	0			0			
AB-CD	5	784	0.007	5	0.0	4.631	A
AB-C	389			389			
D-ABC	0	387	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	449			449			
C-B	69			69			
CD-AB	143	874	0.164	144	0.4	4.953	A
CD-A	374			374			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	75	474	0.157	75	0.2	9.021	A
B-A	181	411	0.440	183	0.8	15.971	C
A-B	94			94			
A-C	254			254			
A-D	0			0			
AB-CD	4	755	0.005	4	0.0	4.797	A
AB-C	325			325			
D-ABC	0	414	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	376			376			
C-B	58			58			
CD-AB	106	838	0.126	106	0.3	4.929	A
CD-A	328			328			

2029 Future Base + Com Dev, AM (08:00-09:00)

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		3.26	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D4	2029 Future Base + Com Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	842	100.000
B - Mid Street		✓	254	100.000
C - High Street (W)		✓	403	100.000
D - Park Works Road		✓	6	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	287	552	3
	B - Mid Street	156	0	97	1
	C - High Street (W)	322	80	0	1
	D - Park Works Road	2	3	1	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	3	4	0
	B - Mid Street	1	0	3	0
	C - High Street (W)	11	1	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.33	16.52	0.5	C
B-A	0.64	37.26	1.7	E
A-B				
A-C				
A-D				
AB-CD	0.01	4.09	0.0	A
AB-C				
D-ABC	0.01	8.12	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.27	7.18	0.7	A
CD-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	74	465	0.159	73	0.2	9.162	A
B-A	117	360	0.327	116	0.5	14.637	B
A-B	216			216			
A-C	416			416			
A-D	2			2			
AB-CD	7	887	0.008	7	0.0	4.089	A
AB-C	484			484			
D-ABC	5	500	0.009	4	0.0	7.263	A
C-D	0.75			0.75			
C-A	242			242			
C-B	60			60			
CD-AB	98	675	0.145	97	0.3	6.222	A
CD-A	209			209			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	88	421	0.209	88	0.3	10.805	B
B-A	140	321	0.436	139	0.7	19.622	C
A-B	258			258			
A-C	496			496			
A-D	3			3			
AB-CD	9	941	0.010	9	0.0	3.858	A
AB-C	577			577			
D-ABC	5	479	0.011	5	0.0	7.592	A
C-D	0.90			0.90			
C-A	289			289			
C-B	72			72			
CD-AB	131	681	0.192	130	0.4	6.520	A
CD-A	235			235			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	108	331	0.326	107	0.5	15.998	C
B-A	172	267	0.642	168	1.6	35.094	E
A-B	316			316			
A-C	608			608			
A-D	3			3			
AB-CD	15	1019	0.014	15	0.0	3.580	A
AB-C	703			703			
D-ABC	7	450	0.015	7	0.0	8.121	A
C-D	1			1			
C-A	355			355			
C-B	88			88			
CD-AB	189	693	0.273	188	0.7	7.112	A
CD-A	259			259			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	108	326	0.331	108	0.5	16.522	C
B-A	172	267	0.643	171	1.7	37.256	E
A-B	316			316			
A-C	608			608			
A-D	3			3			
AB-CD	15	1019	0.014	15	0.0	3.585	A
AB-C	704			704			
D-ABC	7	450	0.015	7	0.0	8.122	A
C-D	1			1			
C-A	355			355			
C-B	88			88			
CD-AB	190	694	0.274	190	0.7	7.178	A
CD-A	258			258			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	88	416	0.212	89	0.3	11.022	B
B-A	140	322	0.436	144	0.8	20.644	C
A-B	258			258			
A-C	496			496			
A-D	3			3			
AB-CD	10	942	0.010	10	0.0	3.866	A
AB-C	578			578			
D-ABC	5	479	0.011	5	0.0	7.594	A
C-D	0.90			0.90			
C-A	289			289			
C-B	72			72			
CD-AB	131	682	0.193	132	0.4	6.617	A
CD-A	235			235			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	74	463	0.159	74	0.2	9.261	A
B-A	117	360	0.327	119	0.5	15.022	C
A-B	216			216			
A-C	416			416			
A-D	2			2			
AB-CD	7	888	0.008	7	0.0	4.092	A
AB-C	485			485			
D-ABC	5	500	0.009	5	0.0	7.264	A
C-D	0.75			0.75			
C-A	242			242			
C-B	60			60			
CD-AB	98	675	0.146	99	0.3	6.287	A
CD-A	208			208			

2029 Future Base + Com Dev, PM (17:00-18:00)

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		8.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D5	2029 Future Base + Com Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	482	100.000
B - Mid Street		✓	322	100.000
C - High Street (W)		✓	691	100.000
D - Park Works Road		✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	124	357	1
	B - Mid Street	240	0	81	1
	C - High Street (W)	576	113	0	2
	D - Park Works Road	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	1	3	0
	B - Mid Street	0	0	0	0
	C - High Street (W)	2	2	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.48	35.75	0.9	E
B-A	0.86	70.84	4.8	F
A-B				
A-C				
A-D				
AB-CD	0.01	4.87	0.0	A
AB-C				
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.37	5.88	1.1	A
CD-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	62	470	0.131	61	0.1	8.793	A
B-A	181	397	0.455	177	0.8	16.137	C
A-B	93			93			
A-C	269			269			
A-D	0.75			0.75			
AB-CD	3	741	0.004	3	0.0	4.872	A
AB-C	328			328			
D-ABC	0	394	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	434			434			
C-B	85			85			
CD-AB	170	866	0.197	169	0.4	5.158	A
CD-A	348			348			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	74	405	0.182	73	0.2	10.844	B
B-A	216	360	0.599	213	1.4	24.118	C
A-B	111			111			
A-C	321			321			
A-D	0.90			0.90			
AB-CD	4	768	0.005	4	0.0	4.706	A
AB-C	392			392			
D-ABC	0	363	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	518			518			
C-B	102			102			
CD-AB	237	911	0.260	236	0.6	5.346	A
CD-A	383			383			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	90	223	0.405	89	0.6	26.424	D
B-A	264	308	0.857	253	4.2	56.610	F
A-B	137			137			
A-C	393			393			
A-D	1			1			
AB-CD	5	806	0.007	5	0.0	4.491	A
AB-C	477			477			
D-ABC	0	319	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	634			634			
C-B	124			124			
CD-AB	359	975	0.368	357	1.1	5.847	A
CD-A	400			400			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	90	189	0.477	89	0.9	35.748	E
B-A	264	308	0.858	262	4.8	70.838	F
A-B	137			137			
A-C	393			393			
A-D	1			1			
AB-CD	5	807	0.007	5	0.0	4.491	A
AB-C	478			478			
D-ABC	0	319	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	634			634			
C-B	124			124			
CD-AB	360	976	0.369	360	1.1	5.884	A
CD-A	399			399			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	74	383	0.192	76	0.2	11.803	B
B-A	216	360	0.599	229	1.6	29.609	D
A-B	111			111			
A-C	321			321			
A-D	0.90			0.90			
AB-CD	4	770	0.005	4	0.0	4.704	A
AB-C	394			394			
D-ABC	0	363	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	518			518			
C-B	102			102			
CD-AB	238	912	0.261	240	0.7	5.388	A
CD-A	381			381			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	62	465	0.133	62	0.2	8.950	A
B-A	181	397	0.455	184	0.9	17.099	C
A-B	93			93			
A-C	269			269			
A-D	0.75			0.75			
AB-CD	3	742	0.004	3	0.0	4.873	A
AB-C	329			329			
D-ABC	0	394	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	434			434			
C-B	85			85			
CD-AB	172	867	0.198	172	0.4	5.200	A
CD-A	347			347			

2029 Future Base + Com Dev, PM (16:00-17:00)

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		7.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D6	2029 Future Base + Com Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	478	100.000
B - Mid Street		✓	350	100.000
C - High Street (W)		✓	597	100.000
D - Park Works Road		✓	3	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	129	349	0
	B - Mid Street	248	0	99	3
	C - High Street (W)	515	79	0	3
	D - Park Works Road	1	1	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	2	5	0
	B - Mid Street	1	0	1	0
	C - High Street (W)	2	0	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.50	31.47	0.9	D
B-A	0.84	62.48	4.4	F
A-B				
A-C				
A-D				
AB-CD	0.01	4.77	0.0	A
AB-C				
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.24	5.08	0.6	A
CD-A				

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	77	471	0.163	76	0.2	9.098	A
B-A	187	406	0.460	183	0.8	15.977	C
A-B	97			97			
A-C	263			263			
A-D	0			0			
AB-CD	4	759	0.005	4	0.0	4.765	A
AB-C	335			335			
D-ABC	0	410	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	388			388			
C-B	59			59			
CD-AB	110	844	0.130	109	0.3	4.899	A
CD-A	337			337			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	92	409	0.224	91	0.3	11.312	B
B-A	223	373	0.598	221	1.4	23.326	C
A-B	116			116			
A-C	314			314			
A-D	0			0			
AB-CD	5	789	0.007	5	0.0	4.590	A
AB-C	400			400			
D-ABC	0	382	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	463			463			
C-B	71			71			
CD-AB	150	881	0.171	150	0.4	4.932	A
CD-A	384			384			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	112	251	0.448	110	0.8	25.302	D
B-A	273	325	0.840	263	3.9	51.470	F
A-B	142			142			
A-C	384			384			
A-D	0			0			
AB-CD	8	831	0.010	8	0.0	4.368	A
AB-C	487			487			
D-ABC	0	342	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	567			567			
C-B	87			87			
CD-AB	223	934	0.238	222	0.6	5.062	A
CD-A	431			431			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	112	225	0.499	112	0.9	31.470	D
B-A	273	325	0.841	271	4.4	62.481	F
A-B	142			142			
A-C	384			384			
A-D	0			0			
AB-CD	8	832	0.010	8	0.0	4.372	A
AB-C	488			488			
D-ABC	0	342	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	567			567			
C-B	87			87			
CD-AB	223	935	0.239	223	0.6	5.079	A
CD-A	431			431			

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	92	391	0.234	94	0.3	12.218	B
B-A	223	373	0.598	234	1.6	27.784	D
A-B	116			116			
A-C	314			314			
A-D	0			0			
AB-CD	6	791	0.007	6	0.0	4.593	A
AB-C	402			402			
D-ABC	0	382	0.000	0	0.0	0.000	A
C-D	3			3			
C-A	463			463			
C-B	71			71			
CD-AB	151	881	0.171	152	0.4	4.957	A
CD-A	383			383			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	77	466	0.165	77	0.2	9.274	A
B-A	187	406	0.460	190	0.9	16.864	C
A-B	97			97			
A-C	263			263			
A-D	0			0			
AB-CD	4	760	0.005	4	0.0	4.768	A
AB-C	336			336			
D-ABC	0	410	0.000	0	0.0	0.000	A
C-D	2			2			
C-A	388			388			
C-B	59			59			
CD-AB	111	844	0.131	111	0.3	4.925	A
CD-A	336			336			