

2019 Baseline + Eastern Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	12.34	B

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	5	A43 (S)	12.34	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2019 Baseline + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	435	100.000
A43 (S)		ONE HOUR	✓	1838	100.000
B4100 (W)		ONE HOUR	✓	400	100.000
A43 (N)		ONE HOUR	✓	1503	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	73	48	314
	A43 (S)	128	0	128	1582
	B4100 (W)	171	108	16	105
	A43 (N)	245	1169	89	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	5	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.37	4.70	0.6	A	399	599
A43 (S)	0.91	18.90	10.1	C	1687	2530
B4100 (W)	0.52	9.00	1.1	A	367	551
A43 (N)	0.76	7.41	3.4	A	1379	2069

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	327	82	1036	1548	0.212	326	408	0.0	0.3	3.075	A
A43 (S)	1384	346	350	2318	0.597	1377	1012	0.0	1.6	4.067	A
B4100 (W)	301	75	1517	1233	0.244	300	211	0.0	0.3	3.985	A
A43 (N)	1132	283	317	2273	0.498	1127	1500	0.0	1.1	3.404	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	391	98	1240	1435	0.273	391	488	0.3	0.4	3.600	A
A43 (S)	1652	413	419	2276	0.726	1648	1212	1.6	2.8	6.084	A
B4100 (W)	360	90	1815	1073	0.335	359	252	0.3	0.5	5.204	A
A43 (N)	1351	338	379	2235	0.605	1349	1794	1.1	1.6	4.406	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	479	120	1515	1282	0.374	478	595	0.4	0.6	4.675	A
A43 (S)	2024	506	513	2218	0.913	1998	1481	2.8	9.2	15.933	C
B4100 (W)	440	110	2204	865	0.509	438	307	0.5	1.1	8.674	A
A43 (N)	1655	414	462	2184	0.758	1648	2180	1.6	3.3	7.213	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	479	120	1521	1278	0.375	479	599	0.6	0.6	4.704	A
A43 (S)	2024	506	514	2217	0.913	2020	1486	9.2	10.1	18.901	C
B4100 (W)	440	110	2225	854	0.516	440	309	1.1	1.1	9.001	A
A43 (N)	1655	414	465	2182	0.758	1655	2200	3.3	3.4	7.406	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	391	98	1249	1430	0.273	392	493	0.6	0.4	3.628	A
A43 (S)	1652	413	421	2275	0.726	1681	1220	10.1	2.9	6.788	A
B4100 (W)	360	90	1847	1056	0.340	362	255	1.1	0.5	5.378	A
A43 (N)	1351	338	384	2232	0.605	1358	1825	3.4	1.7	4.510	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	327	82	1043	1544	0.212	328	411	0.4	0.3	3.094	A
A43 (S)	1384	346	352	2317	0.597	1389	1019	2.9	1.6	4.172	A
B4100 (W)	301	75	1529	1226	0.246	302	212	0.5	0.3	4.032	A
A43 (N)	1132	283	319	2271	0.498	1134	1512	1.7	1.1	3.450	A

2019 Baseline + Both Developments, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	42.14	E

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-7	A43 (N)	42.14	E

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2019 Baseline + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	571	100.000
A43 (S)		ONE HOUR	✓	1481	100.000
B4100 (W)		ONE HOUR	✓	623	100.000
A43 (N)		ONE HOUR	✓	1857	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	95	235	241
	A43 (S)	227	0	80	1174
	B4100 (W)	293	198	12	120
	A43 (N)	308	1392	157	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	4	8
	A43 (S)	11	0	15	17
	B4100 (W)	6	13	8	12
	A43 (N)	9	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.58	8.51	1.5	A	524	786
A43 (S)	0.78	8.87	3.9	A	1359	2038
B4100 (W)	0.64	10.04	1.9	B	572	858
A43 (N)	1.03	89.78	55.0	F	1704	2556

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	430	107	1316	1392	0.309	428	620	0.0	0.5	4.036	A
A43 (S)	1115	279	483	2236	0.499	1110	1261	0.0	1.1	3.692	A
B4100 (W)	469	117	1231	1386	0.338	467	363	0.0	0.6	4.272	A
A43 (N)	1398	350	547	2133	0.656	1389	1151	0.0	2.2	5.554	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	513	128	1573	1250	0.411	512	742	0.5	0.7	5.281	A
A43 (S)	1331	333	578	2177	0.612	1329	1507	1.1	1.8	4.904	A
B4100 (W)	560	140	1473	1256	0.446	559	434	0.6	0.9	5.633	A
A43 (N)	1669	417	655	2067	0.808	1660	1377	2.2	4.6	10.012	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	629	157	1837	1103	0.570	626	889	0.7	1.4	8.139	A
A43 (S)	1631	408	698	2103	0.775	1622	1765	1.8	3.8	8.541	A
B4100 (W)	686	171	1799	1082	0.634	682	521	0.9	1.8	9.751	A
A43 (N)	2045	511	799	1979	1.033	1927	1682	4.6	34.0	46.008	E

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	629	157	1867	1086	0.579	628	898	1.4	1.5	8.512	A
A43 (S)	1631	408	703	2100	0.777	1630	1792	3.8	3.9	8.868	A
B4100 (W)	686	171	1807	1077	0.637	686	526	1.8	1.9	10.041	B
A43 (N)	2045	511	804	1977	1.034	1961	1690	34.0	55.0	89.778	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	513	128	1748	1152	0.445	516	780	1.5	0.9	6.148	A
A43 (S)	1331	333	599	2165	0.615	1340	1665	3.9	1.9	5.108	A
B4100 (W)	560	140	1485	1250	0.448	564	453	1.9	0.9	5.772	A
A43 (N)	1669	417	661	2064	0.809	1868	1388	55.0	5.4	36.751	E

09:00 - 09:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	430	107	1335	1382	0.311	431	627	0.9	0.5	4.112	A
A43 (S)	1115	279	488	2233	0.499	1118	1279	1.9	1.2	3.750	A
B4100 (W)	469	117	1240	1381	0.340	470	366	0.9	0.6	4.326	A
A43 (N)	1398	350	551	2130	0.656	1411	1159	5.4	2.3	5.903	A

2019 Baseline + Both Developments, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	27.95	D

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-3	A43 (S)	27.95	D

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2019 Baseline + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	756	100.000
A43 (S)		ONE HOUR	✓	1865	100.000
B4100 (W)		ONE HOUR	✓	533	100.000
A43 (N)		ONE HOUR	✓	1514	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	173	269	314
	A43 (S)	128	6	149	1582
	B4100 (W)	239	151	16	127
	A43 (N)	245	1169	100	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	13	7
	B4100 (W)	3	10	0	8
	A43 (N)	5	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.67	9.13	2.1	A	694	1041
A43 (S)	1.00	55.14	31.5	F	1711	2567
B4100 (W)	0.68	13.57	2.2	B	489	734
A43 (N)	0.79	8.92	4.0	A	1389	2084

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	569	142	1081	1523	0.374	567	459	0.0	0.6	3.904	A
A43 (S)	1404	351	524	2211	0.635	1397	1124	0.0	1.8	4.712	A
B4100 (W)	401	100	1520	1231	0.326	399	400	0.0	0.5	4.577	A
A43 (N)	1140	285	404	2219	0.514	1135	1515	0.0	1.1	3.608	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	680	170	1294	1405	0.484	678	549	0.6	1.0	5.143	A
A43 (S)	1677	419	627	2147	0.781	1669	1345	1.8	3.7	7.979	A
B4100 (W)	479	120	1818	1072	0.447	478	479	0.5	0.8	6.408	A
A43 (N)	1361	340	484	2171	0.627	1358	1811	1.1	1.8	4.817	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	832	208	1579	1246	0.668	828	665	1.0	2.0	8.860	A
A43 (S)	2053	513	766	2061	0.996	1979	1641	3.7	22.4	32.588	D
B4100 (W)	587	147	2164	886	0.662	582	580	0.8	2.0	12.365	B
A43 (N)	1667	417	586	2109	0.790	1658	2161	1.8	3.9	8.554	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	832	208	1587	1242	0.670	832	671	2.0	2.1	9.130	A
A43 (S)	2053	513	769	2059	0.997	2017	1650	22.4	31.5	55.137	F
B4100 (W)	587	147	2202	866	0.677	586	585	2.0	2.2	13.567	B
A43 (N)	1667	417	591	2106	0.792	1667	2196	3.9	4.0	8.921	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	680	170	1305	1398	0.486	684	561	2.1	1.0	5.273	A
A43 (S)	1677	419	632	2144	0.782	1786	1357	31.5	4.1	14.128	B
B4100 (W)	479	120	1928	1013	0.473	484	491	2.2	1.0	7.273	A
A43 (N)	1361	340	497	2163	0.629	1370	1915	4.0	1.9	5.003	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	569	142	1089	1519	0.375	571	463	1.0	0.6	3.955	A
A43 (S)	1404	351	528	2209	0.636	1413	1132	4.1	1.9	4.913	A
B4100 (W)	401	100	1537	1222	0.328	403	403	1.0	0.5	4.668	A
A43 (N)	1140	285	409	2217	0.514	1143	1531	1.9	1.2	3.667	A

2019 Baseline + Committed + Western Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	11.82	B

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	5	A43 (S)	11.82	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2019 Baseline + Committed + Western Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	542	100.000
A43 (S)		ONE HOUR	✓	1713	100.000
B4100 (W)		ONE HOUR	✓	619	100.000
A43 (N)		ONE HOUR	✓	1059	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	78	232	232
	A43 (S)	204	0	180	1329
	B4100 (W)	289	198	12	120
	A43 (N)	297	605	157	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	3	7
	A43 (S)	8	0	15	17

B4100 (W)	6	13	8	12
A43 (N)	7	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.39	4.10	0.7	A	497	746
A43 (S)	0.90	18.41	9.2	C	1572	2358
B4100 (W)	0.68	12.10	2.2	B	568	852
A43 (N)	0.58	4.95	1.6	A	972	1458

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	408	102	729	1719	0.237	407	592	0.0	0.3	2.914	A
A43 (S)	1290	322	475	2241	0.575	1283	661	0.0	1.5	4.320	A
B4100 (W)	466	117	1323	1337	0.349	464	436	0.0	0.6	4.497	A
A43 (N)	797	199	527	2145	0.372	795	1260	0.0	0.7	3.031	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	487	122	873	1639	0.297	487	709	0.3	0.4	3.319	A
A43 (S)	1540	385	568	2183	0.705	1535	791	1.5	2.7	6.379	A
B4100 (W)	556	139	1582	1198	0.465	555	521	0.6	0.9	6.111	A
A43 (N)	952	238	630	2082	0.457	951	1507	0.7	1.0	3.624	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	597	149	1067	1531	0.390	596	864	0.4	0.7	4.089	A
A43 (S)	1886	472	696	2104	0.896	1863	967	2.7	8.5	15.904	C
B4100 (W)	682	170	1922	1016	0.671	677	636	0.9	2.1	11.443	B
A43 (N)	1166	291	767	1999	0.583	1163	1831	1.0	1.6	4.898	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	597	149	1070	1529	0.390	597	869	0.7	0.7	4.103	A
A43 (S)	1886	472	697	2104	0.897	1883	970	8.5	9.2	18.407	C
B4100 (W)	682	170	1941	1006	0.678	681	639	2.1	2.2	12.097	B
A43 (N)	1166	291	773	1995	0.584	1166	1849	1.6	1.6	4.948	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	487	122	877	1636	0.298	488	716	0.7	0.5	3.337	A
A43 (S)	1540	385	570	2182	0.706	1565	795	9.2	2.8	7.014	A
B4100 (W)	556	139	1610	1183	0.470	561	526	2.2	1.0	6.381	A

A43 (N)	952	238	639	2077	0.458	954	1532	1.6	1.0	3.663	A
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	408	102	733	1716	0.238	409	596	0.5	0.3	2.926	A
A43 (S)	1290	322	477	2240	0.576	1295	665	2.8	1.6	4.429	A
B4100 (W)	466	117	1333	1331	0.350	468	438	1.0	0.6	4.569	A
A43 (N)	797	199	531	2142	0.372	798	1270	1.0	0.7	3.054	A

2019 Baseline + Committed + Western Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	68.76	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-10	A43 (S)	68.76	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2019 Baseline + Committed + Western Development	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	716	100.000
A43 (S)		ONE HOUR	✓	2051	100.000
B4100 (W)		ONE HOUR	✓	501	100.000
A43 (N)		ONE HOUR	✓	1626	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	150	264	302
	A43 (S)	116	0	149	1786
	B4100 (W)	237	121	16	127
	A43 (N)	239	1287	100	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	13	7

B4100 (W)	2	10	0	8
A43 (N)	4	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.66	9.16	2.0	A	657	986
A43 (S)	1.09	148.96	106.1	F	1882	2823
B4100 (W)	0.66	13.05	2.0	B	460	690
A43 (N)	0.84	11.01	5.3	B	1492	2238

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	539	135	1142	1489	0.362	537	443	0.0	0.6	3.879	A
A43 (S)	1544	386	511	2219	0.696	1534	1168	0.0	2.4	5.564	A
B4100 (W)	377	94	1649	1162	0.325	375	396	0.0	0.5	4.806	A
A43 (N)	1224	306	367	2242	0.546	1219	1658	0.0	1.3	3.816	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	644	161	1367	1364	0.472	642	530	0.6	0.9	5.120	A
A43 (S)	1844	461	612	2156	0.855	1830	1397	2.4	5.8	11.375	B
B4100 (W)	450	113	1968	991	0.454	449	474	0.5	0.9	6.969	A
A43 (N)	1462	365	439	2199	0.665	1458	1978	1.3	2.1	5.279	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1667	1198	0.658	784	636	0.9	1.9	8.872	A
A43 (S)	2258	565	747	2073	1.090	2048	1704	5.8	58.3	65.126	F
B4100 (W)	552	138	2230	851	0.648	548	565	0.9	1.9	12.328	B
A43 (N)	1790	448	525	2146	0.834	1778	2253	2.1	5.1	10.338	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1677	1192	0.662	788	641	1.9	2.0	9.159	A
A43 (S)	2258	565	751	2070	1.091	2067	1715	58.3	106.1	148.964	F
B4100 (W)	552	138	2249	841	0.656	551	568	1.9	2.0	13.049	B
A43 (N)	1790	448	528	2144	0.835	1790	2272	5.1	5.3	11.010	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	644	161	1381	1356	0.475	648	552	2.0	0.9	5.259	A
A43 (S)	1844	461	617	2153	0.856	2131	1412	106.1	34.2	121.214	F
B4100 (W)	450	113	2250	841	0.536	453	499	2.0	1.2	9.856	A

A43 (N)	1462	365	459	2186	0.669	1474	2244	5.3	2.2	5.603	A
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	539	135	1151	1484	0.363	540	455	0.9	0.6	3.929	A
A43 (S)	1544	386	515	2216	0.697	1671	1177	34.2	2.5	8.895	A
B4100 (W)	377	94	1777	1093	0.345	380	408	1.2	0.6	5.333	A
A43 (N)	1224	306	378	2235	0.548	1228	1779	2.2	1.3	3.908	A

2019 Baseline + Committed + Eastern Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	85.63	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-12	A43 (N)	85.63	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2019 Baseline + Committed + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	513	100.000
A43 (S)		ONE HOUR	✓	1694	100.000
B4100 (W)		ONE HOUR	✓	543	100.000
A43 (N)		ONE HOUR	✓	2049	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	95	177	241
	A43 (S)	227	0	138	1329
	B4100 (W)	261	166	12	104
	A43 (N)	308	1605	136	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	4	8
	A43 (S)	11	0	20	17

B4100 (W)	7	16	8	14
A43 (N)	9	18	15	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.53	7.87	1.2	A	471	706
A43 (S)	0.86	14.02	7.0	B	1554	2332
B4100 (W)	0.61	10.27	1.7	B	498	747
A43 (N)	1.12	184.27	130.1	F	1880	2820

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	386	97	1434	1327	0.291	384	596	0.0	0.4	4.152	A
A43 (S)	1275	319	424	2273	0.561	1269	1395	0.0	1.5	4.152	A
B4100 (W)	409	102	1347	1324	0.309	407	347	0.0	0.5	4.348	A
A43 (N)	1543	386	499	2162	0.714	1531	1254	0.0	2.8	6.530	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	461	115	1710	1174	0.393	460	712	0.4	0.7	5.484	A
A43 (S)	1523	381	507	2221	0.686	1519	1663	1.5	2.5	5.929	A
B4100 (W)	488	122	1611	1182	0.413	487	414	0.5	0.8	5.736	A
A43 (N)	1842	461	597	2102	0.876	1824	1501	2.8	7.3	14.217	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	565	141	1897	1069	0.528	563	835	0.7	1.2	7.707	A
A43 (S)	1865	466	605	2161	0.863	1848	1855	2.5	6.7	12.783	B
B4100 (W)	598	149	1962	994	0.601	594	491	0.8	1.6	9.902	A
A43 (N)	2256	564	728	2022	1.115	2004	1828	7.3	70.4	78.893	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	565	141	1910	1062	0.532	565	840	1.2	1.2	7.873	A
A43 (S)	1865	466	607	2159	0.864	1864	1867	6.7	7.0	14.023	B
B4100 (W)	598	149	1977	986	0.606	598	494	1.6	1.7	10.265	B
A43 (N)	2256	564	733	2020	1.117	2017	1842	70.4	130.1	184.266	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	461	115	1928	1052	0.438	463	755	1.2	0.9	6.663	A
A43 (S)	1523	381	526	2210	0.689	1540	1865	7.0	2.6	6.418	A
B4100 (W)	488	122	1632	1171	0.417	492	434	1.7	0.8	5.910	A

A43 (N)	1842	461	604	2098	0.878	2080	1520	130.1	70.7	175.151	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	386	97	1675	1193	0.324	388	641	0.9	0.5	4.874	A
A43 (S)	1275	319	445	2260	0.564	1280	1618	2.6	1.5	4.295	A
B4100 (W)	409	102	1358	1318	0.310	410	367	0.8	0.5	4.404	A
A43 (N)	1543	386	503	2160	0.714	1813	1265	70.7	3.0	25.510	D

2019 Baseline + Committed + Eastern Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	63.70	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-9	A43 (S)	63.70	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2019 Baseline + Committed + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	735	100.000
A43 (S)		ONE HOUR	✓	2042	100.000
B4100 (W)		ONE HOUR	✓	400	100.000
A43 (N)		ONE HOUR	✓	1621	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	173	248	314
	A43 (S)	128	0	128	1786
	B4100 (W)	171	108	16	105
	A43 (N)	245	1287	89	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	6	7

B4100 (W)	3	4	0	4
A43 (N)	5	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.67	9.42	2.1	A	674	1012
A43 (S)	1.08	136.70	96.8	F	1874	2811
B4100 (W)	0.54	9.84	1.2	A	367	551
A43 (N)	0.82	9.65	4.7	A	1487	2231

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	553	138	1125	1499	0.369	551	408	0.0	0.6	3.943	A
A43 (S)	1537	384	500	2226	0.691	1528	1176	0.0	2.3	5.451	A
B4100 (W)	301	75	1668	1152	0.261	300	360	0.0	0.4	4.360	A
A43 (N)	1220	305	317	2273	0.537	1215	1650	0.0	1.3	3.689	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	661	165	1346	1376	0.480	659	487	0.6	1.0	5.219	A
A43 (S)	1836	459	598	2165	0.848	1823	1407	2.3	5.5	10.880	B
B4100 (W)	360	90	1990	979	0.367	359	431	0.4	0.6	5.988	A
A43 (N)	1457	364	379	2235	0.652	1454	1970	1.3	2.0	4.998	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	809	202	1642	1211	0.668	805	584	1.0	2.0	9.128	A
A43 (S)	2248	562	730	2083	1.079	2055	1717	5.5	53.8	60.850	F
B4100 (W)	440	110	2270	830	0.531	438	515	0.6	1.1	9.457	A
A43 (N)	1785	446	452	2191	0.815	1775	2257	2.0	4.5	9.200	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	809	202	1651	1206	0.671	809	588	2.0	2.1	9.423	A
A43 (S)	2248	562	734	2080	1.081	2076	1726	53.8	96.8	136.702	F
B4100 (W)	440	110	2292	818	0.538	440	519	1.1	1.2	9.841	A
A43 (N)	1785	446	455	2189	0.815	1784	2277	4.5	4.7	9.648	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	661	165	1358	1369	0.483	665	510	2.1	1.0	5.355	A
A43 (S)	1836	459	604	2161	0.849	2138	1419	96.8	21.3	102.984	F
B4100 (W)	360	90	2288	820	0.438	361	453	1.2	0.8	8.135	A

A43 (N)	1457	364	400	2222	0.656	1467	2249	4.7	2.1	5.259	A
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	553	138	1133	1494	0.370	555	416	1.0	0.6	3.993	A
A43 (S)	1537	384	504	2223	0.691	1613	1184	21.3	2.4	7.101	A
B4100 (W)	301	75	1749	1109	0.272	303	368	0.8	0.4	4.630	A
A43 (N)	1220	305	324	2268	0.538	1224	1727	2.1	1.3	3.764	A

2019 Baseline + Committed + Both Developments, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	110.87	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-14	A43 (N)	110.87	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2019 Baseline + Committed + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	571	100.000
A43 (S)		ONE HOUR	✓	1736	100.000
B4100 (W)		ONE HOUR	✓	623	100.000
A43 (N)		ONE HOUR	✓	2070	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	95	235	241
	A43 (S)	227	0	180	1329
	B4100 (W)	293	198	12	120
	A43 (N)	308	1605	157	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	3	8
	A43 (S)	11	0	15	17

B4100 (W)	6	13	8	12
A43 (N)	9	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.59	8.98	1.5	A	524	786
A43 (S)	0.91	19.98	10.0	C	1593	2389
B4100 (W)	0.69	13.00	2.4	B	572	858
A43 (N)	1.15	244.67	162.3	F	1899	2849

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	430	107	1473	1305	0.329	428	620	0.0	0.5	4.417	A
A43 (S)	1307	327	483	2236	0.584	1301	1418	0.0	1.6	4.432	A
B4100 (W)	469	117	1346	1324	0.354	467	437	0.0	0.6	4.577	A
A43 (N)	1558	390	547	2133	0.731	1546	1266	0.0	3.1	6.990	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	513	128	1753	1150	0.446	512	740	0.5	0.9	6.079	A
A43 (S)	1561	390	577	2178	0.717	1556	1688	1.6	2.9	6.656	A
B4100 (W)	560	140	1610	1183	0.474	559	522	0.6	1.0	6.290	A
A43 (N)	1861	465	654	2067	0.900	1838	1515	3.1	8.8	16.754	C

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	629	157	1905	1065	0.590	626	860	0.9	1.5	8.795	A
A43 (S)	1911	478	684	2111	0.905	1886	1847	2.9	9.2	16.893	C
B4100 (W)	686	171	1955	999	0.687	681	616	1.0	2.3	12.180	B
A43 (N)	2279	570	796	1981	1.150	1969	1839	8.8	86.5	95.774	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	629	157	1913	1061	0.593	629	866	1.5	1.5	8.984	A
A43 (S)	1911	478	687	2110	0.906	1908	1854	9.2	10.0	19.979	C
B4100 (W)	686	171	1976	987	0.695	685	620	2.3	2.4	12.998	B
A43 (N)	2279	570	803	1977	1.153	1976	1858	86.5	162.3	230.656	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	513	128	1933	1050	0.489	515	778	1.5	1.0	7.299	A
A43 (S)	1561	390	596	2166	0.720	1588	1852	10.0	3.1	7.555	A
B4100 (W)	560	140	1641	1166	0.480	566	543	2.4	1.0	6.611	A

A43 (N)	1861	465	664	2061	0.903	2047	1543	162.3	115.9	244.667	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	430	107	1868	1086	0.396	431	692	1.0	0.7	5.945	A
A43 (S)	1307	327	521	2213	0.591	1312	1778	3.1	1.7	4.664	A
B4100 (W)	469	117	1358	1318	0.356	471	475	1.0	0.6	4.655	A
A43 (N)	1558	390	552	2130	0.732	2008	1277	115.9	3.5	87.216	F

2019 Baseline + Committed + Both Developments, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	75.27	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-11	A43 (S)	75.27	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2019 Baseline + Committed + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	756	100.000
A43 (S)		ONE HOUR	✓	2063	100.000
B4100 (W)		ONE HOUR	✓	533	100.000
A43 (N)		ONE HOUR	✓	1632	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	173	269	314
	A43 (S)	128	0	149	1786
	B4100 (W)	239	151	16	127
	A43 (N)	245	1287	100	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	13	7

B4100 (W)	3	10	0	8
A43 (N)	5	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.71	10.94	2.5	B	694	1041
A43 (S)	1.10	164.32	117.7	F	1893	2840
B4100 (W)	0.70	15.06	2.4	C	489	734
A43 (N)	0.85	12.17	5.9	B	1498	2246

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	569	142	1165	1477	0.385	567	458	0.0	0.6	4.102	A
A43 (S)	1553	388	524	2211	0.703	1543	1207	0.0	2.5	5.713	A
B4100 (W)	401	100	1667	1152	0.348	399	400	0.0	0.6	5.049	A
A43 (N)	1229	307	400	2222	0.553	1223	1666	0.0	1.3	3.914	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	680	170	1393	1349	0.504	678	548	0.6	1.0	5.562	A
A43 (S)	1855	464	627	2147	0.864	1840	1445	2.5	6.2	12.039	B
B4100 (W)	479	120	1988	980	0.489	477	478	0.6	1.0	7.559	A
A43 (N)	1467	367	478	2175	0.675	1464	1988	1.3	2.2	5.498	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	832	208	1698	1180	0.705	827	655	1.0	2.4	10.439	B
A43 (S)	2271	568	764	2062	1.102	2041	1760	6.2	63.9	70.483	F
B4100 (W)	587	147	2237	848	0.692	582	568	1.0	2.3	14.089	B
A43 (N)	1797	449	570	2119	0.848	1783	2249	2.2	5.6	11.273	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	832	208	1710	1173	0.709	832	660	2.4	2.5	10.943	B
A43 (S)	2271	568	769	2059	1.103	2056	1773	63.9	117.7	164.319	F
B4100 (W)	587	147	2253	839	0.700	586	572	2.3	2.4	15.059	C
A43 (N)	1797	449	574	2116	0.849	1796	2265	5.6	5.9	12.175	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	680	170	1410	1340	0.507	685	571	2.5	1.1	5.765	A
A43 (S)	1855	464	634	2143	0.866	2123	1462	117.7	50.5	144.526	F
B4100 (W)	479	120	2255	838	0.572	483	502	2.4	1.5	10.854	B

A43 (N)	1467	367	500	2162	0.679	1481	2238	5.9	2.4	5.893	A
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	569	142	1174	1471	0.387	571	475	1.1	0.7	4.166	A
A43 (S)	1553	388	528	2208	0.703	1745	1217	50.5	2.6	12.692	B
B4100 (W)	401	100	1856	1051	0.382	404	417	1.5	0.7	5.924	A
A43 (N)	1229	307	416	2212	0.555	1233	1844	2.4	1.4	4.028	A

2025 Baseline, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	74.85	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-11	A43 (N)	74.85	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D17	2025 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	430	100.000
A43 (S)		ONE HOUR	✓	1657	100.000
B4100 (W)		ONE HOUR	✓	589	100.000
A43 (N)		ONE HOUR	✓	1994	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	85	91	254
	A43 (S)	223	0	151	1283
	B4100 (W)	280	182	14	113
	A43 (N)	324	1521	149	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.44	6.44	0.8	A	395	592
A43 (S)	0.83	10.99	5.4	B	1520	2281
B4100 (W)	0.64	10.60	1.9	B	540	811
A43 (N)	1.10	161.65	111.4	F	1830	2745

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	324	81	1395	1348	0.240	322	619	0.0	0.3	3.778	A
A43 (S)	1247	312	381	2300	0.542	1242	1337	0.0	1.3	3.893	A
B4100 (W)	443	111	1319	1338	0.331	441	303	0.0	0.5	4.246	A
A43 (N)	1501	375	524	2147	0.699	1491	1237	0.0	2.6	6.235	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	387	97	1664	1199	0.322	386	740	0.3	0.5	4.770	A
A43 (S)	1490	372	455	2254	0.661	1486	1595	1.3	2.2	5.369	A
B4100 (W)	529	132	1579	1200	0.441	528	362	0.5	0.8	5.675	A
A43 (N)	1793	448	627	2084	0.860	1777	1480	2.6	6.4	12.929	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	473	118	1870	1084	0.437	472	872	0.5	0.8	6.327	A
A43 (S)	1824	456	542	2200	0.829	1812	1800	2.2	5.2	10.368	B
B4100 (W)	649	162	1926	1014	0.640	645	428	0.8	1.8	10.228	B
A43 (N)	2195	549	765	2000	1.098	1977	1806	6.4	61.1	70.799	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	473	118	1886	1076	0.440	473	878	0.8	0.8	6.444	A
A43 (S)	1824	456	544	2198	0.830	1824	1815	5.2	5.4	10.992	B
B4100 (W)	649	162	1937	1008	0.643	648	431	1.8	1.9	10.603	B
A43 (N)	2195	549	769	1997	1.099	1994	1816	61.1	111.4	161.653	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	387	97	1902	1067	0.362	387	790	0.8	0.6	5.720	A
A43 (S)	1490	372	477	2240	0.665	1502	1812	5.4	2.3	5.699	A
B4100 (W)	529	132	1594	1192	0.444	534	385	1.9	0.9	5.837	A
A43 (N)	1793	448	633	2080	0.862	2059	1494	111.4	44.8	138.896	F

09:00 - 09:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	324	81	1546	1265	0.256	325	651	0.6	0.4	4.134	A
A43 (S)	1247	312	396	2290	0.545	1251	1475	2.3	1.4	3.996	A
B4100 (W)	443	111	1329	1333	0.333	445	318	0.9	0.5	4.304	A
A43 (N)	1501	375	528	2144	0.700	1669	1246	44.8	2.8	12.412	B

2025 Baseline, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	60.85	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-9	A43 (S)	60.85	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D18	2025 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	761	100.000
A43 (S)		ONE HOUR	✓	2004	100.000
B4100 (W)		ONE HOUR	✓	439	100.000
A43 (N)		ONE HOUR	✓	1643	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	164	266	331
	A43 (S)	127	0	141	1736
	B4100 (W)	186	119	18	116
	A43 (N)	262	1283	98	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.70	10.34	2.4	B	698	1047
A43 (S)	1.08	132.10	91.7	F	1839	2758
B4100 (W)	0.58	10.64	1.4	B	403	604
A43 (N)	0.83	10.74	5.2	B	1508	2261

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	573	143	1138	1491	0.384	570	431	0.0	0.6	4.010	A
A43 (S)	1509	377	534	2204	0.684	1500	1174	0.0	2.3	5.451	A
B4100 (W)	331	83	1642	1166	0.284	329	392	0.0	0.4	4.441	A
A43 (N)	1237	309	337	2260	0.547	1232	1634	0.0	1.3	3.781	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	684	171	1362	1367	0.500	683	515	0.6	1.0	5.400	A
A43 (S)	1802	450	640	2139	0.842	1789	1405	2.3	5.3	10.624	B
B4100 (W)	395	99	1960	995	0.396	394	469	0.4	0.7	6.173	A
A43 (N)	1477	369	403	2220	0.665	1474	1951	1.3	2.1	5.212	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	838	209	1661	1201	0.698	833	618	1.0	2.3	9.929	A
A43 (S)	2206	552	780	2052	1.075	2023	1713	5.3	51.2	59.269	F
B4100 (W)	483	121	2243	844	0.572	481	560	0.7	1.3	10.160	B
A43 (N)	1809	452	482	2172	0.833	1797	2242	2.1	5.1	10.111	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	838	209	1671	1195	0.701	838	623	2.3	2.4	10.340	B
A43 (S)	2206	552	785	2049	1.077	2044	1724	51.2	91.7	132.104	F
B4100 (W)	483	121	2265	833	0.581	483	564	1.3	1.4	10.640	B
A43 (N)	1809	452	485	2170	0.833	1808	2263	5.1	5.2	10.738	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	684	171	1375	1359	0.503	689	539	2.4	1.1	5.570	A
A43 (S)	1802	450	646	2135	0.844	2111	1419	91.7	14.4	94.617	F
B4100 (W)	395	99	2262	834	0.473	396	495	1.4	0.9	8.544	A
A43 (N)	1477	369	425	2207	0.669	1489	2233	5.2	2.2	5.536	A

18:00 - 18:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	573	143	1147	1487	0.385	575	437	1.1	0.6	4.068	A
A43 (S)	1509	377	538	2202	0.685	1557	1183	14.4	2.4	6.395	A
B4100 (W)	331	83	1697	1136	0.291	333	398	0.9	0.4	4.643	A
A43 (N)	1237	309	343	2257	0.548	1241	1686	2.2	1.3	3.859	A

2025 Baseline + Committed, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	175.38	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-18	A43 (N)	175.38	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D19	2025 Baseline + Committed	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	530	100.000
A43 (S)		ONE HOUR	✓	1812	100.000
B4100 (W)		ONE HOUR	✓	589	100.000
A43 (N)		ONE HOUR	✓	2207	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	85	191	254
	A43 (S)	223	0	151	1438
	B4100 (W)	280	182	14	113
	A43 (N)	324	1734	149	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.55	8.14	1.3	A	486	730
A43 (S)	0.93	25.59	13.3	D	1663	2494
B4100 (W)	0.71	14.01	2.5	B	540	811
A43 (N)	1.22	381.59	230.7	F	2025	3038

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	399	100	1551	1262	0.316	397	618	0.0	0.5	4.449	A
A43 (S)	1364	341	455	2254	0.605	1357	1494	0.0	1.7	4.588	A
B4100 (W)	443	111	1434	1277	0.347	441	378	0.0	0.6	4.556	A
A43 (N)	1662	415	524	2147	0.774	1646	1352	0.0	3.8	8.086	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	476	119	1833	1105	0.431	475	736	0.5	0.8	6.105	A
A43 (S)	1629	407	543	2199	0.741	1623	1765	1.7	3.2	7.121	A
B4100 (W)	529	132	1716	1126	0.470	528	450	0.6	0.9	6.365	A
A43 (N)	1984	496	626	2084	0.952	1942	1617	3.8	14.3	24.137	C

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	584	146	1918	1058	0.552	582	840	0.8	1.3	8.057	A
A43 (S)	1995	499	638	2140	0.932	1961	1861	3.2	11.8	20.136	C
B4100 (W)	649	162	2076	934	0.695	643	523	0.9	2.3	12.902	B
A43 (N)	2430	607	761	2003	1.213	1997	1958	14.3	122.6	131.096	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	584	146	1920	1057	0.552	583	846	1.3	1.3	8.142	A
A43 (S)	1995	499	640	2139	0.933	1989	1863	11.8	13.3	25.591	D
B4100 (W)	649	162	2103	919	0.705	648	526	2.3	2.5	14.013	B
A43 (N)	2430	607	768	1998	1.216	1998	1982	122.6	230.7	320.119	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	476	119	1942	1045	0.456	478	763	1.3	0.9	6.822	A
A43 (S)	1629	407	554	2192	0.743	1668	1866	13.3	3.4	8.473	A
B4100 (W)	529	132	1759	1103	0.480	535	464	2.5	1.0	6.788	A
A43 (N)	1984	496	638	2077	0.955	2067	1656	230.7	210.0	381.586	F

09:00 - 09:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	399	100	1967	1030	0.387	400	693	0.9	0.7	6.125	A
A43 (S)	1364	341	490	2232	0.611	1371	1877	3.4	1.8	4.849	A
B4100 (W)	443	111	1448	1270	0.349	445	413	1.0	0.6	4.641	A
A43 (N)	1662	415	528	2144	0.775	2132	1365	210.0	92.3	256.664	F

2025 Baseline + Committed, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	142.08	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-16	A43 (S)	142.08	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D20	2025 Baseline + Committed	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	761	100.000
A43 (S)		ONE HOUR	✓	2208	100.000
B4100 (W)		ONE HOUR	✓	439	100.000
A43 (N)		ONE HOUR	✓	1761	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	164	266	331
	A43 (S)	127	0	141	1940
	B4100 (W)	186	119	18	116
	A43 (N)	262	1401	98	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.75	12.89	2.9	B	698	1047
A43 (S)	1.19	313.29	202.6	F	2026	3039
B4100 (W)	0.59	10.93	1.4	B	403	604
A43 (N)	0.89	15.93	8.2	C	1616	2424

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	573	143	1226	1443	0.397	570	430	0.0	0.7	4.235	A
A43 (S)	1662	416	534	2204	0.754	1650	1262	0.0	3.2	6.777	A
B4100 (W)	331	83	1792	1085	0.305	329	392	0.0	0.4	4.904	A
A43 (N)	1326	331	337	2261	0.586	1320	1784	0.0	1.5	4.131	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	684	171	1467	1309	0.523	682	514	0.7	1.1	5.897	A
A43 (S)	1985	496	639	2139	0.928	1955	1510	3.2	10.6	18.452	C
B4100 (W)	395	99	2127	906	0.435	393	467	0.4	0.8	7.238	A
A43 (N)	1583	396	402	2221	0.713	1579	2119	1.5	2.6	6.047	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	838	209	1783	1133	0.740	831	607	1.1	2.8	12.030	B
A43 (S)	2431	608	779	2053	1.184	2045	1836	10.6	107.1	110.967	F
B4100 (W)	483	121	2276	826	0.585	481	548	0.8	1.4	10.691	B
A43 (N)	1939	485	471	2179	0.890	1919	2286	2.6	7.7	14.064	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	838	209	1800	1124	0.746	837	611	2.8	2.9	12.889	B
A43 (S)	2431	608	784	2049	1.186	2049	1852	107.1	202.6	274.385	F
B4100 (W)	483	121	2282	823	0.587	483	551	1.4	1.4	10.934	B
A43 (N)	1939	485	473	2178	0.890	1937	2292	7.7	8.2	15.933	C

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	684	171	1490	1296	0.528	691	529	2.9	1.2	6.196	A
A43 (S)	1985	496	648	2134	0.930	2123	1533	202.6	168.2	313.291	F
B4100 (W)	395	99	2288	820	0.481	397	483	1.4	1.0	8.825	A
A43 (N)	1583	396	414	2214	0.715	1605	2271	8.2	2.8	6.639	A

18:00 - 18:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	573	143	1236	1437	0.399	575	464	1.2	0.7	4.306	A
A43 (S)	1662	416	539	2202	0.755	2188	1272	168.2	36.8	171.031	F
B4100 (W)	331	83	2298	815	0.406	332	428	1.0	0.7	7.721	A
A43 (N)	1326	331	370	2241	0.592	1331	2260	2.8	1.6	4.322	A

2025 Baseline + Western Development , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	93.03	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-13	A43 (N)	93.03	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D21	2025 Baseline + Western Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	587	100.000
A43 (S)		ONE HOUR	✓	1699	100.000
B4100 (W)		ONE HOUR	✓	668	100.000
A43 (N)		ONE HOUR	✓	2014	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	85	248	254
	A43 (S)	223	0	193	1283
	B4100 (W)	312	213	14	129
	A43 (N)	324	1521	169	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	9
	A43 (S)	11	0	18	21
	B4100 (W)	8	20	6	22
	A43 (N)	4	20	15	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.60	9.05	1.6	A	539	808
A43 (S)	0.90	19.44	9.6	C	1559	2339
B4100 (W)	0.73	14.92	3.0	B	613	919
A43 (N)	1.13	205.49	141.9	F	1848	2772

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	442	110	1433	1328	0.333	440	643	0.0	0.5	4.353	A
A43 (S)	1279	320	513	2218	0.577	1273	1360	0.0	1.6	4.512	A
B4100 (W)	503	126	1318	1339	0.376	500	467	0.0	0.7	4.882	A
A43 (N)	1516	379	571	2118	0.716	1505	1248	0.0	2.9	6.727	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	528	132	1706	1175	0.449	526	768	0.5	0.9	5.957	A
A43 (S)	1527	382	613	2156	0.709	1522	1620	1.6	2.8	6.728	A
B4100 (W)	601	150	1577	1200	0.500	599	558	0.7	1.1	6.807	A
A43 (N)	1811	453	683	2050	0.883	1791	1493	2.9	7.7	15.195	C

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	646	162	1879	1079	0.599	643	896	0.9	1.6	8.831	A
A43 (S)	1871	468	729	2084	0.898	1847	1794	2.8	8.8	16.633	C
B4100 (W)	735	184	1915	1020	0.721	729	660	1.1	2.8	13.821	B
A43 (N)	2217	554	830	1960	1.131	1944	1814	7.7	76.0	86.523	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	646	162	1889	1074	0.602	646	903	1.6	1.6	9.053	A
A43 (S)	1871	468	732	2082	0.899	1868	1803	8.8	9.6	19.435	C
B4100 (W)	735	184	1935	1009	0.729	735	665	2.8	3.0	14.919	B
A43 (N)	2217	554	838	1956	1.134	1954	1832	76.0	141.9	205.487	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	528	132	1907	1064	0.496	530	814	1.6	1.1	7.281	A
A43 (S)	1527	382	636	2141	0.713	1553	1801	9.6	3.0	7.611	A
B4100 (W)	601	150	1606	1185	0.507	608	583	3.0	1.2	7.199	A
A43 (N)	1811	453	694	2043	0.886	2027	1520	141.9	87.9	204.840	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	442	110	1728	1163	0.380	444	703	1.1	0.7	5.395	A
A43 (S)	1279	320	546	2197	0.582	1285	1626	3.0	1.7	4.731	A
B4100 (W)	503	126	1331	1332	0.377	505	500	1.2	0.7	4.977	A
A43 (N)	1516	379	576	2115	0.717	1855	1259	87.9	3.1	44.361	E

2025 Baseline + Western Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	71.96	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-11	A43 (S)	71.96	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D22	2025 Baseline + Western Development	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	782	100.000
A43 (S)		ONE HOUR	✓	2025	100.000
B4100 (W)		ONE HOUR	✓	471	100.000
A43 (N)		ONE HOUR	✓	1653	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	164	287	331
	A43 (S)	127	0	162	1736
	B4100 (W)	254	62	18	137
	A43 (N)	262	1283	108	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	10	1	4
	A43 (S)	8	0	5	7
	B4100 (W)	2	3	0	3
	A43 (N)	5	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.70	10.29	2.4	B	718	1076
A43 (S)	1.10	159.51	112.2	F	1858	2787
B4100 (W)	0.61	11.01	1.6	B	432	648
A43 (N)	0.84	11.26	5.5	B	1517	2275

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	589	147	1103	1511	0.390	586	482	0.0	0.7	4.038	A
A43 (S)	1525	381	558	2190	0.696	1515	1131	0.0	2.4	5.624	A
B4100 (W)	355	89	1642	1166	0.304	353	431	0.0	0.4	4.521	A
A43 (N)	1244	311	345	2256	0.552	1239	1649	0.0	1.3	3.830	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	703	176	1319	1391	0.506	701	576	0.7	1.1	5.423	A
A43 (S)	1820	455	667	2122	0.858	1806	1353	2.4	5.9	11.701	B
B4100 (W)	423	106	1959	996	0.425	422	515	0.4	0.7	6.404	A
A43 (N)	1486	372	413	2214	0.671	1483	1968	1.3	2.2	5.330	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	861	215	1608	1230	0.700	856	690	1.1	2.3	9.880	A
A43 (S)	2230	557	814	2031	1.098	2009	1650	5.9	61.1	68.804	F
B4100 (W)	519	130	2210	862	0.602	516	613	0.7	1.5	10.552	B
A43 (N)	1820	455	492	2166	0.840	1807	2234	2.2	5.3	10.546	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	861	215	1619	1224	0.703	861	695	2.3	2.4	10.292	B
A43 (S)	2230	557	819	2028	1.099	2025	1661	61.1	112.2	159.505	F
B4100 (W)	519	130	2227	853	0.608	518	617	1.5	1.6	11.011	B
A43 (N)	1820	455	495	2165	0.841	1819	2251	5.3	5.5	11.261	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	703	176	1334	1383	0.508	708	599	2.4	1.1	5.596	A
A43 (S)	1820	455	674	2118	0.860	2098	1368	112.2	42.9	135.294	F
B4100 (W)	423	106	2230	851	0.497	426	542	1.6	1.0	8.695	A
A43 (N)	1486	372	433	2202	0.675	1499	2222	5.5	2.3	5.664	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	589	147	1111	1506	0.391	590	496	1.1	0.7	4.097	A
A43 (S)	1525	381	562	2187	0.697	1686	1140	42.9	2.5	10.602	B
B4100 (W)	355	89	1801	1081	0.328	357	447	1.0	0.5	5.102	A
A43 (N)	1244	311	359	2247	0.554	1248	1799	2.3	1.4	3.932	A

2025 Baseline + Eastern Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	83.30	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-12	A43 (N)	83.30	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D23	2025 Baseline + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	560	100.000
A43 (S)		ONE HOUR	✓	1680	100.000
B4100 (W)		ONE HOUR	✓	594	100.000
A43 (N)		ONE HOUR	✓	2006	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	103	194	263
	A43 (S)	246	0	151	1283
	B4100 (W)	285	182	14	113
	A43 (N)	336	1521	149	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	21	4	8
	A43 (S)	11	0	9	17
	B4100 (W)	7	6	8	6
	A43 (N)	8	18	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.57	8.27	1.4	A	514	771
A43 (S)	0.87	14.89	7.3	B	1542	2312
B4100 (W)	0.66	11.40	2.0	B	545	818
A43 (N)	1.12	182.83	126.5	F	1841	2761

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	422	105	1395	1349	0.313	420	649	0.0	0.5	4.204	A
A43 (S)	1265	316	464	2248	0.563	1259	1350	0.0	1.5	4.175	A
B4100 (W)	447	112	1343	1326	0.337	445	380	0.0	0.5	4.343	A
A43 (N)	1510	378	545	2134	0.708	1499	1243	0.0	2.7	6.445	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	503	126	1663	1200	0.420	502	775	0.5	0.8	5.602	A
A43 (S)	1510	378	555	2191	0.689	1506	1610	1.5	2.5	6.020	A
B4100 (W)	534	133	1607	1185	0.451	533	455	0.5	0.9	5.869	A
A43 (N)	1803	451	652	2069	0.872	1786	1487	2.7	7.0	13.929	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	617	154	1849	1096	0.562	614	909	0.8	1.4	8.075	A
A43 (S)	1850	462	662	2125	0.870	1832	1800	2.5	7.0	13.418	B
B4100 (W)	654	164	1956	998	0.655	650	539	0.9	2.0	10.874	B
A43 (N)	2209	552	794	1982	1.114	1963	1811	7.0	68.4	78.296	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	617	154	1861	1089	0.566	616	915	1.4	1.4	8.272	A
A43 (S)	1850	462	665	2123	0.871	1848	1812	7.0	7.3	14.886	B
B4100 (W)	654	164	1972	989	0.661	654	542	2.0	2.0	11.401	B
A43 (N)	2209	552	800	1979	1.116	1976	1825	68.4	126.5	182.828	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	503	126	1880	1079	0.467	505	825	1.4	1.0	6.842	A
A43 (S)	1510	378	577	2178	0.693	1529	1809	7.3	2.7	6.574	A
B4100 (W)	534	133	1629	1173	0.455	539	477	2.0	0.9	6.088	A
A43 (N)	1803	451	660	2064	0.874	2045	1507	126.5	66.0	170.795	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	422	105	1615	1226	0.344	423	696	1.0	0.6	4.884	A
A43 (S)	1265	316	487	2234	0.566	1269	1552	2.7	1.5	4.326	A
B4100 (W)	447	112	1354	1320	0.339	449	402	0.9	0.5	4.408	A
A43 (N)	1510	378	549	2131	0.709	1762	1253	66.0	2.9	22.048	C

2025 Baseline + Eastern Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	67.25	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-10	A43 (S)	67.25	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D24	2025 Baseline + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	803	100.000
A43 (S)		ONE HOUR	✓	2016	100.000
B4100 (W)		ONE HOUR	✓	441	100.000
A43 (N)		ONE HOUR	✓	1649	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	188	272	343
	A43 (S)	139	0	141	1736
	B4100 (W)	188	119	18	116
	A43 (N)	268	1283	98	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	8	1	4
	A43 (S)	8	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	5	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.74	11.96	2.9	B	737	1105
A43 (S)	1.09	147.49	103.3	F	1850	2775
B4100 (W)	0.58	10.77	1.4	B	405	607
A43 (N)	0.84	11.19	5.5	B	1513	2270

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	605	151	1138	1491	0.405	602	446	0.0	0.7	4.202	A
A43 (S)	1518	379	548	2196	0.691	1508	1192	0.0	2.3	5.529	A
B4100 (W)	332	83	1660	1156	0.287	330	396	0.0	0.4	4.498	A
A43 (N)	1241	310	347	2254	0.551	1236	1643	0.0	1.3	3.825	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	722	180	1361	1367	0.528	720	533	0.7	1.1	5.761	A
A43 (S)	1812	453	656	2129	0.851	1799	1426	2.3	5.7	11.238	B
B4100 (W)	396	99	1981	984	0.403	395	474	0.4	0.7	6.307	A
A43 (N)	1482	371	415	2213	0.670	1479	1961	1.3	2.2	5.310	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	884	221	1660	1201	0.736	878	638	1.1	2.8	11.334	B
A43 (S)	2220	555	799	2040	1.088	2015	1739	5.7	56.7	64.585	F
B4100 (W)	486	121	2249	841	0.577	483	565	0.7	1.4	10.318	B
A43 (N)	1816	454	495	2165	0.839	1803	2237	2.2	5.3	10.484	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	884	221	1671	1195	0.740	884	642	2.8	2.9	11.964	B
A43 (S)	2220	555	804	2037	1.090	2033	1750	56.7	103.3	147.490	F
B4100 (W)	486	121	2269	831	0.585	485	569	1.4	1.4	10.773	B
A43 (N)	1816	454	498	2163	0.840	1815	2256	5.3	5.5	11.187	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	722	180	1376	1359	0.531	729	558	2.9	1.2	5.991	A
A43 (S)	1812	453	663	2125	0.853	2103	1441	103.3	30.7	117.583	F
B4100 (W)	396	99	2267	831	0.477	398	499	1.4	1.0	8.631	A
A43 (N)	1482	371	439	2199	0.674	1495	2227	5.5	2.3	5.659	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	605	151	1147	1487	0.407	606	457	1.2	0.7	4.258	A
A43 (S)	1518	379	552	2193	0.692	1631	1201	30.7	2.5	8.334	A
B4100 (W)	332	83	1776	1094	0.303	334	407	1.0	0.5	4.910	A
A43 (N)	1241	310	359	2247	0.552	1245	1751	2.3	1.4	3.921	A

2025 Baseline + Both Developments, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	106.86	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-14	A43 (N)	106.86	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D25	2025 Baseline + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	617	100.000
A43 (S)		ONE HOUR	✓	1722	100.000
B4100 (W)		ONE HOUR	✓	673	100.000
A43 (N)		ONE HOUR	✓	2026	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	103	251	263
	A43 (S)	246	0	193	1283
	B4100 (W)	317	213	14	129
	A43 (N)	336	1521	169	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	21	3	8
	A43 (S)	11	0	15	17
	B4100 (W)	6	13	8	12
	A43 (N)	8	18	12	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.62	9.49	1.8	A	566	849
A43 (S)	0.91	21.75	10.8	C	1580	2370
B4100 (W)	0.75	15.62	3.1	C	618	926
A43 (N)	1.15	239.17	157.5	F	1859	2789

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	465	116	1432	1328	0.350	462	673	0.0	0.6	4.472	A
A43 (S)	1296	324	522	2212	0.586	1290	1373	0.0	1.6	4.492	A
B4100 (W)	507	127	1342	1326	0.382	504	469	0.0	0.7	4.771	A
A43 (N)	1525	381	592	2106	0.724	1513	1255	0.0	3.0	6.905	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	555	139	1705	1176	0.471	553	803	0.6	0.9	6.211	A
A43 (S)	1548	387	623	2149	0.720	1543	1634	1.6	2.9	6.822	A
B4100 (W)	605	151	1606	1185	0.510	603	561	0.7	1.1	6.761	A
A43 (N)	1821	455	708	2035	0.895	1800	1501	3.0	8.4	16.366	C

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	679	170	1857	1092	0.622	676	932	0.9	1.7	9.267	A
A43 (S)	1896	474	740	2077	0.913	1868	1793	2.9	9.8	17.998	C
B4100 (W)	741	185	1947	1003	0.739	734	661	1.1	2.9	14.278	B
A43 (N)	2231	558	860	1942	1.149	1929	1821	8.4	83.8	94.786	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	679	170	1864	1088	0.625	679	940	1.7	1.8	9.493	A
A43 (S)	1896	474	743	2075	0.914	1892	1801	9.8	10.8	21.748	C
B4100 (W)	741	185	1969	991	0.748	740	665	2.9	3.1	15.622	C
A43 (N)	2231	558	869	1937	1.152	1936	1841	83.8	157.5	228.379	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	555	139	1885	1076	0.515	557	848	1.8	1.2	7.511	A
A43 (S)	1548	387	645	2136	0.725	1579	1798	10.8	3.1	7.876	A
B4100 (W)	605	151	1639	1167	0.518	613	584	3.1	1.2	7.189	A
A43 (N)	1821	455	721	2027	0.899	2012	1531	157.5	109.8	239.170	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	465	116	1799	1124	0.413	466	749	1.2	0.8	5.913	A
A43 (S)	1296	324	562	2187	0.593	1302	1704	3.1	1.7	4.741	A
B4100 (W)	507	127	1355	1319	0.384	509	509	1.2	0.7	4.865	A
A43 (N)	1525	381	597	2102	0.726	1951	1266	109.8	3.4	77.969	F

2025 Baseline + Both Developments, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	79.23	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-11	A43 (S)	79.23	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D26	2025 Baseline + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	824	100.000
A43 (S)		ONE HOUR	✓	2037	100.000
B4100 (W)		ONE HOUR	✓	573	100.000
A43 (N)		ONE HOUR	✓	1659	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	188	293	343
	A43 (S)	139	0	162	1736
	B4100 (W)	256	162	18	137
	A43 (N)	268	1283	108	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	8	1	4
	A43 (S)	8	0	12	7
	B4100 (W)	3	10	0	7
	A43 (N)	5	10	8	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.78	14.45	3.5	B	756	1134
A43 (S)	1.11	175.53	124.0	F	1869	2804
B4100 (W)	0.74	17.16	2.9	C	526	789
A43 (N)	0.87	14.59	7.1	B	1522	2283

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	620	155	1177	1470	0.422	617	496	0.0	0.8	4.369	A
A43 (S)	1534	383	571	2182	0.703	1524	1224	0.0	2.5	5.794	A
B4100 (W)	431	108	1659	1156	0.373	429	435	0.0	0.6	5.214	A
A43 (N)	1249	312	430	2204	0.567	1243	1658	0.0	1.4	4.064	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	741	185	1408	1341	0.552	739	593	0.8	1.3	6.180	A
A43 (S)	1831	458	683	2112	0.867	1816	1464	2.5	6.4	12.445	B
B4100 (W)	515	129	1979	986	0.523	513	520	0.6	1.1	8.022	A
A43 (N)	1491	373	514	2153	0.693	1487	1978	1.4	2.4	5.865	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	907	227	1713	1172	0.774	899	708	1.3	3.3	13.313	B
A43 (S)	2243	561	831	2020	1.110	2001	1781	6.4	66.8	74.379	F
B4100 (W)	631	158	2216	859	0.735	624	616	1.1	2.8	15.839	C
A43 (N)	1827	457	612	2093	0.873	1809	2229	2.4	6.7	13.097	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	907	227	1728	1163	0.780	907	714	3.3	3.5	14.454	B
A43 (S)	2243	561	838	2016	1.113	2014	1796	66.8	124.0	175.526	F
B4100 (W)	631	158	2231	851	0.742	630	621	2.8	2.9	17.164	C
A43 (N)	1827	457	617	2090	0.874	1825	2244	6.7	7.1	14.592	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	741	185	1429	1330	0.557	750	619	3.5	1.3	6.537	A
A43 (S)	1831	458	693	2106	0.870	2088	1485	124.0	59.9	160.053	F
B4100 (W)	515	129	2234	849	0.607	520	547	2.9	1.7	11.735	B
A43 (N)	1491	373	538	2138	0.698	1510	2216	7.1	2.6	6.416	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	620	155	1188	1464	0.424	623	517	1.3	0.8	4.454	A
A43 (S)	1534	383	576	2179	0.704	1762	1234	59.9	2.6	16.339	C
B4100 (W)	431	108	1881	1038	0.416	435	457	1.7	0.8	6.356	A
A43 (N)	1249	312	451	2191	0.570	1253	1865	2.6	1.5	4.205	A

2025 Baseline + Committed + Western Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	210.89	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-20	A43 (N)	210.89	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D27	2025 Baseline + Committed + Western Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	587	100.000
A43 (S)		ONE HOUR	✓	1854	100.000
B4100 (W)		ONE HOUR	✓	668	100.000
A43 (N)		ONE HOUR	✓	2227	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	85	248	254
	A43 (S)	223	0	193	1438
	B4100 (W)	312	213	14	129
	A43 (N)	324	1734	169	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	3	7
	A43 (S)	8	0	15	17

B4100 (W)	6	13	8	12
A43 (N)	7	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.61	9.34	1.7	A	539	808
A43 (S)	0.98	43.58	23.7	E	1701	2552
B4100 (W)	0.79	20.16	3.9	C	613	919
A43 (N)	1.25	460.52	265.3	F	2044	3065

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	442	110	1588	1241	0.356	440	642	0.0	0.6	4.762	A
A43 (S)	1396	349	512	2218	0.629	1388	1515	0.0	1.9	4.971	A
B4100 (W)	503	126	1434	1277	0.394	500	467	0.0	0.7	5.046	A
A43 (N)	1677	419	570	2118	0.791	1660	1363	0.0	4.2	8.801	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	528	132	1865	1087	0.485	526	762	0.6	1.0	6.799	A
A43 (S)	1667	417	610	2157	0.773	1659	1781	1.9	3.8	8.234	A
B4100 (W)	601	150	1714	1127	0.533	598	555	0.7	1.2	7.414	A
A43 (N)	2002	501	682	2050	0.976	1944	1630	4.2	18.7	29.666	D

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	646	162	1922	1056	0.612	644	863	1.0	1.6	9.232	A
A43 (S)	2041	510	714	2093	0.975	1982	1851	3.8	18.5	28.661	D
B4100 (W)	735	184	2055	945	0.778	726	642	1.2	3.5	17.309	C
A43 (N)	2452	613	824	1964	1.249	1960	1956	18.7	141.6	154.464	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	646	162	1922	1056	0.612	646	871	1.6	1.7	9.345	A
A43 (S)	2041	510	717	2091	0.976	2020	1851	18.5	23.7	43.581	E
B4100 (W)	735	184	2090	926	0.794	734	647	3.5	3.9	20.159	C
A43 (N)	2452	613	835	1957	1.253	1957	1988	141.6	265.3	374.557	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	528	132	1941	1045	0.505	530	790	1.7	1.1	7.465	A
A43 (S)	1667	417	620	2151	0.775	1745	1851	23.7	4.2	12.121	B
B4100 (W)	601	150	1793	1085	0.553	611	572	3.9	1.4	8.468	A

A43 (N)	2002	501	703	2038	0.982	2029	1701	265.3	258.6	460.516	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	442	110	1971	1029	0.430	443	711	1.1	0.8	6.553	A
A43 (S)	1396	349	549	2195	0.636	1404	1864	4.2	2.1	5.317	A
B4100 (W)	503	126	1450	1269	0.396	506	504	1.4	0.7	5.174	A
A43 (N)	1677	419	577	2115	0.793	2105	1379	258.6	151.4	351.484	F

2025 Baseline + Committed + Western Development , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	162.73	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-17	A43 (S)	162.73	F

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D28	2025 Baseline + Committed + Western Development	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	782	100.000
A43 (S)		ONE HOUR	✓	2229	100.000
B4100 (W)		ONE HOUR	✓	571	100.000
A43 (N)		ONE HOUR	✓	1771	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	164	287	331
	A43 (S)	127	0	162	1940
	B4100 (W)	254	162	18	137
	A43 (N)	262	1401	108	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	13	7

B4100 (W)	2	10	0	8
A43 (N)	4	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.79	15.77	3.6	C	718	1076
A43 (S)	1.21	362.43	225.8	F	2045	3068
B4100 (W)	0.75	17.57	3.0	C	524	786
A43 (N)	0.93	23.08	11.8	C	1625	2438

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	589	147	1265	1421	0.414	586	481	0.0	0.7	4.420	A
A43 (S)	1678	420	557	2190	0.766	1665	1294	0.0	3.4	7.166	A
B4100 (W)	430	107	1792	1086	0.396	427	430	0.0	0.7	5.745	A
A43 (N)	1333	333	419	2210	0.603	1327	1799	0.0	1.6	4.409	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	703	176	1513	1283	0.548	701	574	0.7	1.2	6.342	A
A43 (S)	2004	501	667	2122	0.944	1967	1547	3.4	12.6	21.149	C
B4100 (W)	513	128	2121	910	0.564	511	513	0.7	1.3	9.462	A
A43 (N)	1592	398	500	2161	0.737	1587	2131	1.6	3.0	6.768	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	861	215	1832	1106	0.779	852	676	1.2	3.4	14.167	B
A43 (S)	2454	614	810	2033	1.207	2027	1874	12.6	119.2	124.198	F
B4100 (W)	629	157	2241	845	0.744	623	597	1.3	2.9	16.605	C
A43 (N)	1950	487	589	2107	0.925	1920	2275	3.0	10.5	18.532	C

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	861	215	1855	1093	0.788	860	683	3.4	3.6	15.775	C
A43 (S)	2454	614	818	2029	1.210	2028	1897	119.2	225.8	307.606	F
B4100 (W)	629	157	2245	843	0.745	628	601	2.9	3.0	17.565	C
A43 (N)	1950	487	593	2105	0.926	1945	2280	10.5	11.8	23.081	C

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	703	176	1549	1263	0.557	712	591	3.6	1.3	6.837	A
A43 (S)	2004	501	678	2115	0.947	2105	1583	225.8	200.5	362.434	F
B4100 (W)	513	128	2254	839	0.612	518	530	3.0	1.7	12.040	B

A43 (N)	1592	398	514	2153	0.740	1626	2258	11.8	3.2	7.913	A
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	589	147	1277	1414	0.416	591	514	1.3	0.7	4.513	A
A43 (S)	1678	420	562	2187	0.767	2175	1306	200.5	76.1	230.466	F
B4100 (W)	430	107	2267	831	0.517	432	470	1.7	1.2	9.572	A
A43 (N)	1333	333	452	2190	0.609	1339	2247	3.2	1.7	4.643	A