Junctions 9

ARCADY 9 - Roundabout Module

Filename: J2 - Aldi Tesco Access.j9
Path: C:\Users\lloyd\Corun Associates Ltd\Communication site - Documents\23-00849 - Lidl, Land at Pontymister, Risca\Capacity Analysis\ARCADY
Report generation date: 18/10/2024 15:23:58

Summary of junction performance

	AM					PM					SAT				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2024 Survey Flows														
Arm 1		0.1	6.14	0.11	A		0.3	9.05	0.25	A		0.4	9.57	0.30	A

Arm 2	D1	1.0	8.47	0.50	A	D2	1.9	12.11	0.65	B	D3	1.5	10.69	0.60	B
Arm 3		0.3	3.18	0.22	A		0.8	4.90	0.46	A		0.8	4.69	0.45	A
Arm 4		0.8	4.31	0.44	A		1.2	6.05	0.56	A		1.4	6.24	0.58	A
	2025 Without Development														
Arm 1	D4	0.1	6.14	0.11	A	D5	0.3	9.06	0.25	A	D6	0.4	9.57	0.30	A
Arm 2		1.0	8.47	0.50	A		1.9	12.15	0.66	B		1.5	10.72	0.60	B
Arm 3		0.3	3.18	0.22	A		0.8	4.90	0.46	A		0.8	4.70	0.45	A
Arm 4		0.8	4.31	0.44	A		1.3	6.07	0.56	A		1.4	6.24	0.58	A
	2030 Without Development														
Arm 1	D7	0.1	6.37	0.12	A	D8	0.4	9.78	0.28	A	D9	0.5	10.54	0.33	B
Arm 2		1.1	9.05	0.53	A		2.2	13.71	0.69	B		1.7	11.98	0.64	B
Arm 3		0.3	3.27	0.23	A		0.9	5.25	0.48	A		0.9	5.04	0.48	A
Arm 4		0.9	4.51	0.46	A		1.4	6.60	0.59	A		1.6	6.90	0.62	A
	2025 With Development														
Arm 1	D10	0.1	6.35	0.11	A	D11	0.4	9.82	0.27	A	D12	0.5	10.59	0.32	B
Arm 2		1.2	9.31	0.54	A		2.6	15.61	0.73	C		1.9	12.81	0.66	B
Arm 3		0.3	3.24	0.23	A		0.9	5.28	0.48	A		0.9	5.02	0.47	A
Arm 4		0.9	4.54	0.47	A		1.5	6.80	0.61	A		1.8	7.25	0.64	A
	2030 With Development														
Arm 1	D13	0.1	6.59	0.12	A	D14	0.4	10.66	0.30	B	D15	0.5	11.79	0.36	B
Arm 2		1.3	10.02	0.57	B		3.2	18.23	0.77	C		2.3	14.64	0.70	B
Arm 3		0.3	3.33	0.24	A		1.0	5.69	0.51	A		1.0	5.42	0.51	A
Arm 4		1.0	4.76	0.49	A		1.8	7.48	0.64	A		2.1	8.15	0.68	A
	2035 Without Development														
Arm 1	D16	0.1	6.54	0.12	A	D17	0.4	10.36	0.30	B	D18	0.6	12.89	0.39	B
Arm 2		1.2	9.50	0.55	A		2.5	15.24	0.72	C		2.6	16.39	0.73	C
Arm 3		0.3	3.31	0.24	A		1.0	5.56	0.51	A		1.1	5.76	0.53	A
Arm 4		0.9	4.68	0.48	A		1.6	6.98	0.61	A		2.4	9.03	0.71	A
	2035 With Development														
Arm 1	D19	0.1	6.78	0.13	A	D20	0.5	11.44	0.32	B	D21	0.6	12.84	0.39	B
Arm 2		1.4	10.58	0.59	B		3.7	20.99	0.80	C		2.6	16.43	0.73	C
Arm 3		0.3	3.40	0.25	A		1.1	6.05	0.53	A		1.1	5.77	0.53	A
Arm 4		1.0	4.96	0.51	A		2.0	8.13	0.67	A		2.3	8.98	0.70	A
	2025 Sensitivity Test														
Arm 1	D22	0.1	6.40	0.11	A	D23	0.4	10.02	0.27	B	D24	0.5	10.81	0.32	B
Arm 2		1.2	9.31	0.55	A		2.9	16.78	0.75	C		2.0	13.38	0.67	B
Arm 3		0.3	3.25	0.23	A		0.9	5.39	0.49	A		0.9	5.09	0.48	A
Arm 4		0.9	4.59	0.48	A		1.6	7.02	0.62	A		1.8	7.48	0.65	A
	2030 Sensitivity Test														
Arm 1	D25	0.1	6.66	0.12	A	D26	0.4	10.90	0.30	B	D27	0.6	12.07	0.36	B
Arm 2		1.4	10.07	0.58	B		3.5	19.84	0.79	C		2.4	15.38	0.71	C
Arm 3		0.3	3.35	0.24	A		1.1	5.82	0.52	A		1.0	5.50	0.51	A
Arm 4		1.0	4.84	0.50	A		1.9	7.74	0.65	A		2.2	8.44	0.69	A
	2035 Sensitivity Test														
Arm 1	D28	0.1	6.85	0.13	A	D29	0.5	11.72	0.32	B	D30	0.6	13.22	0.39	B
Arm 2		1.5	10.87	0.60	B		4.2	23.10	0.82	C		2.8	17.32	0.74	C
Arm 3		0.3	3.42	0.25	A		1.2	6.20	0.54	A		1.1	5.86	0.54	A
Arm 4		1.1	5.04	0.52	A		2.1	8.44	0.68	A		2.5	9.38	0.72	A

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

File summary

File Description

Title	
Location	
Site number	
Date	14/08/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LAPTOP-7PJKROJB\lloyd
Description	

Units

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

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM	ONE HOUR	08:15	09:45	15
D2	2024 Survey Flows	PM	ONE HOUR	15:15	16:45	15
D3	2024 Survey Flows	SAT	ONE HOUR	12:15	13:45	15
D4	2025 Without Development	AM	ONE HOUR	08:15	09:45	15
D5	2025 Without Development	PM	ONE HOUR	15:15	16:45	15
D6	2025 Without Development	SAT	ONE HOUR	12:15	13:45	15
D7	2030 Without Development	AM	ONE HOUR	08:15	09:45	15
D8	2030 Without Development	PM	ONE HOUR	15:15	16:45	15
D9	2030 Without Development	SAT	ONE HOUR	12:15	13:45	15
D10	2025 With Development	AM	ONE HOUR	08:15	09:45	15
D11	2025 With Development	PM	ONE HOUR	15:15	16:45	15
D12	2025 With Development	SAT	ONE HOUR	12:15	13:45	15
D13	2030 With Development	AM	ONE HOUR	08:15	09:45	15
D14	2030 With Development	PM	ONE HOUR	15:15	16:45	15
D15	2030 With Development	SAT	ONE HOUR	12:15	13:45	15
D16	2035 Without Development	AM	ONE HOUR	08:15	09:45	15
D17	2035 Without Development	PM	ONE HOUR	15:15	16:45	15
D18	2035 Without Development	SAT	ONE HOUR	12:15	13:45	15
D19	2035 With Development	AM	ONE HOUR	08:15	09:45	15
D20	2035 With Development	PM	ONE HOUR	15:15	16:45	15
D21	2035 With Development	SAT	ONE HOUR	12:15	13:45	15
D22	2025 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15
D23	2025 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15
D24	2025 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15
D25	2030 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15
D26	2030 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15
D27	2030 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15
D28	2035 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15
D29	2035 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15
D30	2035 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Survey Flows, 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	5.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	Aldi Access	
2	North	
3	Tesco Access	
4	B4591 (North)	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.63	4.44	6.5	4.1	34.2	35.0	
2	3.00	4.30	6.1	10.3	32.0	53.5	
3	5.10	6.32	12.3	15.5	32.6	34.5	
4	3.86	7.61	14.6	8.5	34.8	37.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.449	1011
2	0.473	997
3	0.661	1772
4	0.610	1631

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	63	100.000
2		✓	391	100.000
3		✓	288	100.000
4		✓	597	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	29	19	15
	2	31	0	0	360
	3	8	151	0	129
	4	35	369	193	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	2	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.11	6.14	0.1	A
2	0.50	8.47	1.0	A
3	0.22	3.18	0.3	A
4	0.44	4.31	0.8	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	535	769	0.062	47	0.1	4.989	A
2	294	170	892	0.330	292	0.5	5.983	A
3	217	304	1543	0.141	216	0.2	2.712	A
4	449	143	1534	0.293	448	0.4	3.312	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	640	721	0.079	57	0.1	5.420	A
2	352	204	877	0.401	351	0.7	6.837	A
3	259	364	1502	0.172	259	0.2	2.894	A
4	537	171	1516	0.354	536	0.5	3.671	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	784	656	0.106	69	0.1	6.137	A
2	430	250	856	0.503	429	1.0	8.413	A
3	317	446	1448	0.219	317	0.3	3.182	A
4	657	209	1493	0.440	656	0.8	4.300	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	785	655	0.106	69	0.1	6.144	A
2	430	250	856	0.503	430	1.0	8.467	A
3	317	447	1447	0.219	317	0.3	3.185	A
4	657	209	1492	0.440	657	0.8	4.310	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	642	720	0.079	57	0.1	5.430	A
2	352	204	876	0.401	353	0.7	6.890	A
3	259	366	1501	0.172	259	0.2	2.899	A
4	537	171	1516	0.354	538	0.6	3.685	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	537	767	0.062	48	0.1	5.000	A
2	294	171	892	0.330	295	0.5	6.039	A
3	217	306	1541	0.141	217	0.2	2.718	A
4	449	143	1533	0.293	450	0.4	3.324	A

2024 Survey Flows, 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	7.54	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Survey Flows	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	123	100.000
2		✓	511	100.000
3		✓	558	100.000
4		✓	680	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	58	23	42
	2	63	0	0	448
	3	19	309	0	230
	4	40	442	198	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.25	9.05	0.3	A
2	0.65	12.11	1.9	B
3	0.46	4.90	0.8	A
4	0.56	6.05	1.2	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	711	686	0.135	92	0.2	6.056	A
2	385	197	903	0.426	382	0.7	6.862	A
3	420	413	1476	0.285	419	0.4	3.399	A
4	512	293	1427	0.359	510	0.6	3.915	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	852	622	0.178	110	0.2	7.038	A
2	459	236	885	0.519	458	1.1	8.381	A
3	502	496	1423	0.353	501	0.5	3.903	A
4	611	351	1392	0.439	610	0.8	4.604	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1042	534	0.253	135	0.3	9.000	A
2	563	289	860	0.654	560	1.8	11.868	B
3	614	606	1351	0.455	613	0.8	4.871	A
4	749	429	1344	0.557	747	1.2	6.031	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1045	533	0.254	135	0.3	9.045	A
2	563	290	859	0.655	562	1.9	12.110	B
3	614	609	1349	0.455	614	0.8	4.898	A
4	749	430	1343	0.557	749	1.2	6.055	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	855	620	0.178	111	0.2	7.082	A
2	459	237	884	0.519	462	1.1	8.594	A
3	502	500	1420	0.353	503	0.5	3.930	A
4	611	353	1391	0.440	613	0.8	4.640	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	716	684	0.135	93	0.2	6.092	A
2	385	198	903	0.426	386	0.8	6.985	A
3	420	418	1473	0.285	421	0.4	3.423	A
4	512	295	1426	0.359	513	0.6	3.948	A

2024 Survey Flows, SAT

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	7.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2024 Survey Flows	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	145	100.000
2		✓	451	100.000
3		✓	569	100.000
4		✓	729	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	67	27	51
	2	54	0	0	397
	3	25	287	0	257
	4	60	434	235	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.30	9.57	0.4	A
2	0.60	10.69	1.5	B
3	0.45	4.69	0.8	A
4	0.58	6.24	1.4	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	717	687	0.159	108	0.2	6.210	A
2	340	234	886	0.383	337	0.6	6.534	A
3	428	375	1510	0.284	427	0.4	3.321	A
4	549	274	1458	0.376	546	0.6	3.939	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	858	623	0.209	130	0.3	7.290	A
2	405	281	864	0.470	404	0.9	7.823	A
3	512	450	1461	0.350	511	0.5	3.789	A
4	655	329	1425	0.460	654	0.8	4.668	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1050	537	0.297	159	0.4	9.514	A
2	497	344	834	0.596	494	1.4	10.537	B
3	626	550	1395	0.449	625	0.8	4.670	A
4	803	402	1380	0.582	801	1.4	6.195	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1053	536	0.298	160	0.4	9.571	A
2	497	345	833	0.596	496	1.5	10.685	B
3	626	553	1393	0.450	626	0.8	4.693	A
4	803	403	1379	0.582	803	1.4	6.244	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	862	622	0.210	131	0.3	7.341	A
2	405	282	863	0.470	408	0.9	7.947	A
3	512	454	1458	0.351	513	0.5	3.813	A
4	655	330	1424	0.460	657	0.9	4.711	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	721	686	0.159	109	0.2	6.254	A
2	340	236	885	0.384	341	0.6	6.629	A
3	428	379	1507	0.284	429	0.4	3.342	A
4	549	276	1457	0.377	550	0.6	3.974	A

2025 Without 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	5.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2025 Without Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	63	100.000
2		✓	391	100.000
3		✓	288	100.000
4		✓	597	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	29	19	15
	2	31	0	0	360
	3	8	151	0	129
	4	35	369	193	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	2	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.11	6.14	0.1	A
2	0.50	8.47	1.0	A
3	0.22	3.18	0.3	A
4	0.44	4.31	0.8	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	535	769	0.062	47	0.1	4.989	A
2	294	170	892	0.330	292	0.5	5.983	A
3	217	304	1543	0.141	216	0.2	2.712	A
4	449	143	1534	0.293	448	0.4	3.312	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	640	721	0.079	57	0.1	5.420	A
2	352	204	877	0.401	351	0.7	6.837	A
3	259	364	1502	0.172	259	0.2	2.894	A
4	537	171	1516	0.354	536	0.5	3.671	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	784	656	0.106	69	0.1	6.137	A
2	430	250	856	0.503	429	1.0	8.413	A
3	317	446	1448	0.219	317	0.3	3.182	A
4	657	209	1493	0.440	656	0.8	4.300	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	785	655	0.106	69	0.1	6.144	A
2	430	250	856	0.503	430	1.0	8.467	A
3	317	447	1447	0.219	317	0.3	3.185	A
4	657	209	1492	0.440	657	0.8	4.310	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	642	720	0.079	57	0.1	5.430	A
2	352	204	876	0.401	353	0.7	6.890	A
3	259	366	1501	0.172	259	0.2	2.899	A
4	537	171	1516	0.354	538	0.6	3.685	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	537	767	0.062	48	0.1	5.000	A
2	294	171	892	0.330	295	0.5	6.039	A
3	217	306	1541	0.141	217	0.2	2.718	A
4	449	143	1533	0.293	450	0.4	3.324	A

2025 Without 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	7.56	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2025 Without Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	123	100.000
2		✓	512	100.000
3		✓	558	100.000
4		✓	681	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	58	23	42
	2	63	0	0	449
	3	19	309	0	230
	4	40	443	198	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.25	9.06	0.3	A
2	0.66	12.15	1.9	B
3	0.46	4.90	0.8	A
4	0.56	6.07	1.3	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	712	685	0.135	92	0.2	6.059	A
2	385	197	903	0.427	383	0.7	6.872	A
3	420	414	1476	0.285	419	0.4	3.400	A
4	513	293	1427	0.359	510	0.6	3.918	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	853	621	0.178	110	0.2	7.044	A
2	460	236	885	0.520	459	1.1	8.425	A
3	502	497	1422	0.353	501	0.5	3.905	A
4	612	351	1392	0.440	611	0.8	4.609	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1044	534	0.254	135	0.3	9.012	A
2	564	289	860	0.656	561	1.8	11.910	B
3	614	607	1351	0.455	613	0.8	4.882	A
4	750	429	1344	0.558	748	1.2	6.022	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1046	533	0.254	135	0.3	9.057	A
2	564	290	859	0.656	564	1.9	12.153	B
3	614	610	1349	0.456	614	0.8	4.903	A
4	750	430	1343	0.558	750	1.3	6.066	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	856	620	0.178	111	0.2	7.085	A
2	460	237	884	0.520	463	1.1	8.611	A
3	502	501	1419	0.353	503	0.6	3.934	A
4	612	353	1391	0.440	614	0.8	4.647	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	716	684	0.135	93	0.2	6.096	A
2	385	198	903	0.427	387	0.8	6.998	A
3	420	419	1473	0.285	421	0.4	3.422	A
4	513	295	1426	0.360	514	0.6	3.949	A

2025 Without Development, SAT

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	7.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2025 Without Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	145	100.000
2		✓	452	100.000
3		✓	569	100.000
4		✓	729	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	67	27	51
	2	54	0	0	398
	3	25	287	0	257
	4	60	434	235	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.30	9.57	0.4	A
2	0.60	10.72	1.5	B
3	0.45	4.70	0.8	A
4	0.58	6.24	1.4	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	717	687	0.159	108	0.2	6.210	A
2	340	234	886	0.384	338	0.6	6.543	A
3	428	376	1509	0.284	427	0.4	3.322	A
4	549	274	1458	0.376	546	0.6	3.939	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	858	623	0.209	130	0.3	7.290	A
2	406	281	864	0.471	405	0.9	7.838	A
3	512	451	1460	0.350	511	0.5	3.791	A
4	655	329	1425	0.460	654	0.8	4.668	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1050	537	0.297	159	0.4	9.514	A
2	498	344	834	0.597	495	1.4	10.571	B
3	626	551	1394	0.449	625	0.8	4.675	A
4	803	402	1380	0.582	801	1.4	6.195	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1053	536	0.298	160	0.4	9.571	A
2	498	345	833	0.597	498	1.5	10.720	B
3	626	554	1393	0.450	626	0.8	4.697	A
4	803	403	1379	0.582	803	1.4	6.244	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	862	622	0.210	131	0.3	7.344	A
2	406	282	863	0.471	409	0.9	7.964	A
3	512	455	1458	0.351	513	0.5	3.812	A
4	655	330	1424	0.460	657	0.9	4.709	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	721	686	0.159	109	0.2	6.252	A
2	340	236	885	0.385	341	0.6	6.639	A
3	428	380	1507	0.284	429	0.4	3.341	A
4	549	276	1457	0.377	550	0.6	3.972	A

2030 Without 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	5.68	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2030 Without Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	67	100.000
2		✓	411	100.000
3		✓	301	100.000
4		✓	625	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	31	20	16
	2	33	0	0	378
	3	8	158	0	135
	4	37	386	202	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	2	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.12	6.37	0.1	A
2	0.53	9.05	1.1	A
3	0.23	3.27	0.3	A
4	0.46	4.51	0.9	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	50	560	757	0.067	50	0.1	5.086	A
2	309	178	888	0.348	307	0.5	6.172	A
3	227	319	1532	0.148	226	0.2	2.754	A
4	471	149	1529	0.308	469	0.4	3.388	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	60	670	707	0.085	60	0.1	5.562	A
2	369	214	872	0.424	369	0.7	7.137	A
3	271	383	1490	0.182	270	0.2	2.952	A
4	562	179	1511	0.372	561	0.6	3.787	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	74	820	639	0.115	74	0.1	6.363	A
2	453	262	850	0.532	451	1.1	8.981	A
3	331	469	1433	0.231	331	0.3	3.268	A
4	688	219	1487	0.463	687	0.9	4.497	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	74	821	639	0.116	74	0.1	6.371	A
2	453	262	850	0.532	452	1.1	9.053	A
3	331	470	1432	0.231	331	0.3	3.271	A
4	688	219	1486	0.463	688	0.9	4.509	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	60	672	707	0.085	60	0.1	5.574	A
2	369	214	872	0.424	371	0.7	7.207	A
3	271	385	1488	0.182	271	0.2	2.957	A
4	562	179	1511	0.372	563	0.6	3.800	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	50	562	756	0.067	51	0.1	5.103	A
2	309	179	888	0.348	310	0.5	6.239	A
3	227	322	1530	0.148	227	0.2	2.763	A
4	471	150	1529	0.308	471	0.4	3.404	A

2030 Without 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	8.33	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2030 Without Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	129	100.000
2		✓	537	100.000
3		✓	585	100.000
4		✓	713	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	61	24	44
	2	66	0	0	471
	3	20	324	0	241
	4	42	464	207	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.28	9.78	0.4	A
2	0.69	13.71	2.2	B
3	0.48	5.25	0.9	A
4	0.59	6.60	1.4	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	97	746	670	0.145	96	0.2	6.270	A
2	404	206	899	0.450	401	0.8	7.181	A
3	440	434	1463	0.301	439	0.4	3.508	A
4	537	307	1418	0.378	534	0.6	4.062	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	893	603	0.192	116	0.2	7.389	A
2	483	247	880	0.549	481	1.2	8.996	A
3	526	521	1407	0.374	525	0.6	4.082	A
4	641	368	1381	0.464	640	0.9	4.849	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	142	1093	511	0.278	141	0.4	9.729	A
2	591	302	854	0.693	587	2.2	13.329	B
3	644	636	1332	0.484	643	0.9	5.217	A
4	785	450	1331	0.590	783	1.4	6.540	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	142	1095	510	0.278	142	0.4	9.777	A
2	591	303	853	0.693	591	2.2	13.709	B
3	644	639	1329	0.485	644	0.9	5.253	A
4	785	451	1330	0.590	785	1.4	6.600	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	897	601	0.193	117	0.2	7.441	A
2	483	248	879	0.549	487	1.2	9.260	A
3	526	526	1403	0.375	527	0.6	4.117	A
4	641	370	1380	0.464	643	0.9	4.898	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	97	750	668	0.145	97	0.2	6.314	A
2	404	207	898	0.450	406	0.8	7.335	A
3	440	439	1460	0.302	441	0.4	3.536	A
4	537	309	1417	0.379	538	0.6	4.100	A

2030 Without Development, SAT

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	7.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D9	2030 Without Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	154	100.000
2		✓	476	100.000
3		✓	599	100.000
4		✓	767	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	71	29	54
	2	57	0	0	419
	3	26	302	0	271
	4	63	457	247	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.33	10.54	0.5	B
2	0.64	11.98	1.7	B
3	0.48	5.04	0.9	A
4	0.62	6.90	1.6	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	754	671	0.173	115	0.2	6.472	A
2	358	247	880	0.407	356	0.7	6.835	A
3	451	396	1496	0.301	449	0.4	3.433	A
4	577	289	1449	0.398	575	0.7	4.104	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	138	903	603	0.229	138	0.3	7.733	A
2	428	296	856	0.500	427	1.0	8.356	A
3	538	475	1444	0.373	538	0.6	3.969	A
4	690	346	1414	0.488	688	0.9	4.951	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	170	1105	512	0.331	169	0.5	10.458	B
2	524	362	825	0.635	521	1.7	11.749	B
3	660	580	1375	0.480	658	0.9	5.011	A
4	844	423	1367	0.618	842	1.6	6.823	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	170	1108	511	0.332	170	0.5	10.544	B
2	524	363	824	0.636	524	1.7	11.975	B
3	660	583	1373	0.480	659	0.9	5.042	A
4	844	424	1366	0.618	844	1.6	6.895	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	138	907	601	0.230	139	0.3	7.802	A
2	428	298	855	0.500	431	1.0	8.530	A
3	538	480	1441	0.374	540	0.6	3.999	A
4	690	347	1413	0.488	692	1.0	5.010	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	759	668	0.173	116	0.2	6.526	A
2	358	249	879	0.408	360	0.7	6.954	A
3	451	400	1493	0.302	452	0.4	3.458	A
4	577	290	1448	0.399	579	0.7	4.145	A

2025 With 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	5.78	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D10	2025 With Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	63	100.000
2		✓	419	100.000
3		✓	295	100.000
4		✓	636	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	29	19	15
	2	31	0	0	388
	3	8	151	0	136
	4	35	393	208	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	1	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.11	6.35	0.1	A
2	0.54	9.31	1.2	A
3	0.23	3.24	0.3	A
4	0.47	4.54	0.9	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	564	756	0.063	47	0.1	5.078	A
2	315	181	887	0.356	313	0.5	6.252	A
3	222	324	1537	0.145	221	0.2	2.735	A
4	479	143	1534	0.312	477	0.5	3.399	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	675	706	0.080	57	0.1	5.547	A
2	377	217	870	0.433	376	0.8	7.267	A
3	265	389	1493	0.178	265	0.2	2.930	A
4	572	171	1517	0.377	571	0.6	3.804	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	827	637	0.109	69	0.1	6.338	A
2	461	266	848	0.544	460	1.2	9.229	A
3	325	476	1435	0.226	324	0.3	3.242	A
4	700	209	1494	0.469	699	0.9	4.524	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	828	637	0.109	69	0.1	6.346	A
2	461	266	848	0.544	461	1.2	9.310	A
3	325	478	1434	0.227	325	0.3	3.245	A
4	700	209	1493	0.469	700	0.9	4.537	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	677	705	0.080	57	0.1	5.556	A
2	377	218	870	0.433	378	0.8	7.343	A
3	265	392	1492	0.178	265	0.2	2.936	A
4	572	171	1517	0.377	573	0.6	3.820	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	567	755	0.063	48	0.1	5.090	A
2	315	182	886	0.356	316	0.6	6.323	A
3	222	328	1535	0.145	222	0.2	2.742	A
4	479	143	1534	0.312	479	0.5	3.418	A

2025 With 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	9.00	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D11	2025 With Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	123	100.000
2		✓	563	100.000
3		✓	573	100.000
4		✓	747	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	58	23	42
	2	63	0	0	500
	3	19	309	0	245
	4	40	490	217	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.27	9.82	0.4	A
2	0.73	15.61	2.6	C
3	0.48	5.28	0.9	A
4	0.61	6.80	1.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	762	665	0.139	92	0.2	6.281	A
2	424	211	897	0.473	420	0.9	7.502	A
3	431	452	1452	0.297	430	0.4	3.516	A
4	562	293	1436	0.392	560	0.6	4.097	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	912	596	0.185	110	0.2	7.407	A
2	506	253	877	0.577	504	1.3	9.617	A
3	515	542	1393	0.370	514	0.6	4.096	A
4	672	351	1401	0.479	670	0.9	4.924	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1116	503	0.269	135	0.4	9.752	A
2	620	309	850	0.729	615	2.5	15.019	C
3	631	661	1315	0.480	630	0.9	5.240	A
4	822	429	1352	0.608	820	1.5	6.730	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1119	502	0.270	135	0.4	9.817	A
2	620	310	849	0.730	620	2.6	15.608	C
3	631	666	1312	0.481	631	0.9	5.282	A
4	822	430	1352	0.608	822	1.5	6.798	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	916	594	0.186	111	0.2	7.460	A
2	506	255	876	0.578	511	1.4	9.989	A
3	515	549	1388	0.371	516	0.6	4.136	A
4	672	353	1399	0.480	674	0.9	4.980	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	766	662	0.140	93	0.2	6.323	A
2	424	213	896	0.473	426	0.9	7.690	A
3	431	458	1448	0.298	432	0.4	3.545	A
4	562	295	1435	0.392	564	0.6	4.137	A

2025 With Development, SAT

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	8.18	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D12	2025 With Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	145	100.000
2		✓	492	100.000
3		✓	588	100.000
4		✓	802	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	67	27	51
	2	54	0	0	438
	3	25	287	0	276
	4	60	486	256	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.32	10.59	0.5	B
2	0.66	12.81	1.9	B
3	0.47	5.02	0.9	A
4	0.64	7.25	1.8	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	771	663	0.165	108	0.2	6.483	A
2	370	250	878	0.422	368	0.7	7.011	A
3	443	406	1490	0.297	441	0.4	3.426	A
4	604	274	1458	0.414	601	0.7	4.187	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	924	594	0.219	130	0.3	7.752	A
2	442	300	855	0.518	441	1.1	8.675	A
3	529	487	1437	0.368	528	0.6	3.959	A
4	721	329	1425	0.506	720	1.0	5.096	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1130	501	0.319	159	0.5	10.502	B
2	542	366	823	0.658	538	1.9	12.520	B
3	647	594	1366	0.474	646	0.9	4.992	A
4	883	402	1380	0.640	880	1.7	7.164	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1133	500	0.320	160	0.5	10.588	B
2	542	368	822	0.659	542	1.9	12.811	B
3	647	598	1364	0.475	647	0.9	5.023	A
4	883	403	1379	0.640	883	1.8	7.252	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	928	592	0.220	131	0.3	7.823	A
2	442	302	854	0.518	445	1.1	8.886	A
3	529	492	1433	0.369	530	0.6	3.990	A
4	721	330	1424	0.506	724	1.0	5.163	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	776	661	0.165	110	0.2	6.538	A
2	370	252	877	0.422	372	0.7	7.141	A
3	443	410	1487	0.298	443	0.4	3.454	A
4	604	276	1457	0.414	605	0.7	4.233	A

2030 With 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	6.13	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D13	2030 With Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	67	100.000
2		✓	439	100.000
3		✓	308	100.000
4		✓	664	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	31	20	16
	2	33	0	0	406
	3	8	158	0	142
	4	37	410	217	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	1	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.12	6.59	0.1	A
2	0.57	10.02	1.3	B
3	0.24	3.33	0.3	A
4	0.49	4.76	1.0	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	50	589	745	0.068	50	0.1	5.180	A
2	331	190	883	0.374	328	0.6	6.459	A
3	232	340	1526	0.152	231	0.2	2.778	A
4	500	149	1530	0.327	498	0.5	3.482	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	60	705	692	0.087	60	0.1	5.696	A
2	395	227	866	0.456	394	0.8	7.608	A
3	277	408	1481	0.187	277	0.2	2.989	A
4	597	179	1512	0.395	596	0.6	3.928	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	74	863	621	0.119	74	0.1	6.579	A
2	483	278	842	0.574	481	1.3	9.915	A
3	339	499	1420	0.239	339	0.3	3.331	A
4	731	219	1488	0.491	730	1.0	4.743	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	74	864	620	0.119	74	0.1	6.588	A
2	483	279	842	0.574	483	1.3	10.023	B
3	339	501	1418	0.239	339	0.3	3.335	A
4	731	219	1487	0.492	731	1.0	4.759	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	60	707	691	0.087	60	0.1	5.707	A
2	395	228	866	0.456	397	0.9	7.707	A
3	277	411	1479	0.187	277	0.2	2.996	A
4	597	179	1512	0.395	598	0.7	3.945	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	50	592	743	0.068	51	0.1	5.198	A
2	331	191	883	0.374	331	0.6	6.542	A
3	232	344	1524	0.152	232	0.2	2.788	A
4	500	150	1530	0.327	501	0.5	3.499	A

2030 With 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	10.15	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D14	2030 With Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	129	100.000
2		✓	588	100.000
3		✓	600	100.000
4		✓	779	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	61	24	44
	2	66	0	0	522
	3	20	324	0	256
	4	42	511	226	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.30	10.66	0.4	B
2	0.77	18.23	3.2	C
3	0.51	5.69	1.0	A
4	0.64	7.48	1.8	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	97	795	649	0.150	96	0.2	6.503	A
2	443	220	892	0.496	439	1.0	7.871	A
3	452	472	1439	0.314	450	0.5	3.635	A
4	586	307	1427	0.411	584	0.7	4.253	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	952	578	0.201	116	0.2	7.785	A
2	529	264	872	0.606	526	1.5	10.364	B
3	539	566	1377	0.392	539	0.6	4.289	A
4	700	368	1390	0.504	699	1.0	5.199	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	142	1165	481	0.295	141	0.4	10.575	B
2	647	323	844	0.767	641	3.1	17.255	C
3	661	689	1297	0.509	659	1.0	5.630	A
4	858	450	1340	0.640	855	1.7	7.375	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	142	1168	480	0.296	142	0.4	10.663	B
2	647	324	843	0.768	647	3.2	18.235	C
3	661	695	1293	0.511	661	1.0	5.691	A
4	858	451	1339	0.641	858	1.8	7.477	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	957	575	0.202	117	0.3	7.857	A
2	529	265	871	0.607	535	1.6	10.911	B
3	539	575	1372	0.393	541	0.7	4.343	A
4	700	370	1389	0.504	703	1.0	5.273	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	97	800	647	0.150	97	0.2	6.557	A
2	443	222	892	0.496	445	1.0	8.104	A
3	452	478	1434	0.315	452	0.5	3.668	A
4	586	309	1426	0.411	588	0.7	4.300	A

2030 With Development, SAT

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	9.18	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D15	2030 With Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	154	100.000
2		✓	516	100.000
3		✓	618	100.000
4		✓	840	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	71	29	54
	2	57	0	0	459
	3	26	302	0	290
	4	63	509	268	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.36	11.79	0.5	B
2	0.70	14.64	2.3	B
3	0.51	5.42	1.0	A
4	0.68	8.15	2.1	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	809	646	0.179	115	0.2	6.769	A
2	388	263	872	0.445	385	0.8	7.349	A
3	465	426	1477	0.315	463	0.5	3.547	A
4	632	289	1449	0.436	629	0.8	4.375	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	138	968	574	0.241	138	0.3	8.253	A
2	464	315	847	0.547	462	1.2	9.311	A
3	556	511	1421	0.391	555	0.6	4.153	A
4	755	346	1414	0.534	754	1.1	5.437	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	170	1184	476	0.356	169	0.5	11.659	B
2	568	385	814	0.698	564	2.2	14.172	B
3	680	623	1347	0.505	679	1.0	5.374	A
4	925	423	1367	0.677	921	2.0	8.010	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	170	1188	475	0.357	170	0.5	11.794	B
2	568	386	813	0.699	568	2.3	14.637	B
3	680	627	1345	0.506	680	1.0	5.419	A
4	925	424	1366	0.677	925	2.1	8.146	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	138	974	571	0.242	139	0.3	8.353	A
2	464	317	846	0.548	468	1.2	9.617	A
3	556	517	1417	0.392	557	0.6	4.193	A
4	755	347	1413	0.534	759	1.2	5.532	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	814	643	0.180	116	0.2	6.836	A
2	388	265	871	0.446	390	0.8	7.510	A
3	465	431	1473	0.316	466	0.5	3.576	A
4	632	290	1448	0.437	634	0.8	4.429	A

2035 Without 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	5.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D16	2035 Without Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	69	100.000
2		✓	424	100.000
3		✓	311	100.000
4		✓	648	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	32	21	16
	2	34	0	0	390
	3	9	163	0	139
	4	38	400	210	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	1	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.12	6.54	0.1	A
2	0.55	9.50	1.2	A
3	0.24	3.31	0.3	A
4	0.48	4.68	0.9	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	52	580	749	0.069	52	0.1	5.161	A
2	319	185	885	0.361	317	0.6	6.310	A
3	234	329	1534	0.153	233	0.2	2.767	A
4	488	155	1527	0.319	486	0.5	3.452	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	62	694	697	0.089	62	0.1	5.668	A
2	381	222	869	0.439	380	0.8	7.360	A
3	280	395	1490	0.188	279	0.2	2.974	A
4	583	185	1508	0.386	582	0.6	3.883	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	76	850	627	0.121	76	0.1	6.534	A
2	467	271	846	0.552	465	1.2	9.415	A
3	342	483	1431	0.239	342	0.3	3.307	A
4	713	226	1483	0.481	712	0.9	4.665	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	76	851	626	0.121	76	0.1	6.543	A
2	467	272	845	0.552	467	1.2	9.504	A
3	342	484	1429	0.240	342	0.3	3.310	A
4	713	227	1483	0.481	713	0.9	4.679	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	62	696	696	0.089	62	0.1	5.681	A
2	381	223	868	0.439	383	0.8	7.442	A
3	280	397	1488	0.188	280	0.2	2.982	A
4	583	186	1508	0.386	584	0.6	3.899	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	52	583	747	0.070	52	0.1	5.178	A
2	319	186	885	0.361	320	0.6	6.383	A
3	234	332	1532	0.153	234	0.2	2.776	A
4	488	155	1526	0.320	488	0.5	3.469	A

2035 Without 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	9.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D17	2035 Without Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	134	100.000
2		✓	556	100.000
3		✓	606	100.000
4		✓	739	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	63	25	46
	2	69	0	0	487
	3	21	335	0	250
	4	44	480	215	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.30	10.36	0.4	B
2	0.72	15.24	2.5	C
3	0.51	5.56	1.0	A
4	0.61	6.98	1.6	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	101	772	660	0.153	100	0.2	6.426	A
2	419	214	895	0.468	415	0.9	7.444	A
3	456	450	1453	0.314	454	0.5	3.599	A
4	556	318	1421	0.392	554	0.6	4.142	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	925	590	0.204	120	0.3	7.651	A
2	500	257	875	0.571	498	1.3	9.503	A
3	545	539	1394	0.391	544	0.6	4.230	A
4	664	381	1382	0.481	663	0.9	5.009	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	1131	496	0.297	147	0.4	10.280	B
2	612	314	848	0.722	608	2.5	14.700	B
3	667	658	1317	0.507	666	1.0	5.513	A
4	814	466	1330	0.612	811	1.5	6.910	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	1134	495	0.298	148	0.4	10.360	B
2	612	315	847	0.722	612	2.5	15.241	C
3	667	663	1314	0.508	667	1.0	5.563	A
4	814	468	1329	0.612	814	1.6	6.984	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	929	588	0.205	121	0.3	7.717	A
2	500	258	874	0.572	504	1.4	9.852	A
3	545	546	1390	0.392	546	0.6	4.275	A
4	664	384	1381	0.481	667	0.9	5.062	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	101	777	657	0.153	101	0.2	6.474	A
2	419	216	895	0.468	420	0.9	7.623	A
3	456	455	1449	0.315	457	0.5	3.630	A
4	556	321	1419	0.392	558	0.6	4.184	A

2035 Without Development, SAT

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	10.13	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D18	2035 Without Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	160	100.000
2		✓	534	100.000
3		✓	641	100.000
4		✓	870	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	74	30	56
	2	59	0	0	475
	3	27	314	0	300
	4	66	526	278	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.39	12.89	0.6	B
2	0.73	16.39	2.6	C
3	0.53	5.76	1.1	A
4	0.71	9.03	2.4	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	838	633	0.190	120	0.2	7.000	A
2	402	272	868	0.463	399	0.9	7.624	A
3	483	440	1467	0.329	481	0.5	3.642	A
4	655	300	1442	0.454	652	0.8	4.533	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	144	1003	558	0.258	143	0.3	8.672	A
2	480	326	842	0.570	478	1.3	9.854	A
3	576	528	1409	0.409	575	0.7	4.314	A
4	782	359	1406	0.556	780	1.2	5.739	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	176	1226	457	0.385	175	0.6	12.700	B
2	588	399	807	0.728	583	2.5	15.707	C
3	706	644	1333	0.529	704	1.1	5.705	A
4	958	439	1357	0.706	954	2.3	8.826	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	176	1231	455	0.387	176	0.6	12.890	B
2	588	401	806	0.729	588	2.6	16.390	C
3	706	649	1330	0.531	706	1.1	5.764	A
4	958	440	1356	0.706	958	2.4	9.025	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	144	1010	555	0.259	145	0.4	8.799	A
2	480	329	840	0.571	485	1.4	10.262	B
3	576	536	1405	0.410	578	0.7	4.365	A
4	782	361	1405	0.557	786	1.3	5.863	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	844	630	0.191	121	0.2	7.075	A
2	402	275	866	0.464	404	0.9	7.818	A
3	483	446	1463	0.330	483	0.5	3.677	A
4	655	302	1441	0.454	657	0.8	4.599	A

2035 With 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	6.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D19	2035 With Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	69	100.000
2		✓	452	100.000
3		✓	318	100.000
4		✓	687	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	32	21	16
	2	34	0	0	418
	3	9	163	0	146
	4	38	424	225	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	1	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.13	6.78	0.1	A
2	0.59	10.58	1.4	B
3	0.25	3.40	0.3	A
4	0.51	4.96	1.0	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	52	609	736	0.071	52	0.1	5.261	A
2	340	196	880	0.387	338	0.6	6.608	A
3	239	350	1520	0.158	239	0.2	2.808	A
4	517	154	1527	0.339	515	0.5	3.550	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	62	729	681	0.091	62	0.1	5.813	A
2	406	235	862	0.471	405	0.9	7.861	A
3	286	420	1473	0.194	286	0.2	3.032	A
4	618	185	1508	0.409	617	0.7	4.035	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	76	893	607	0.125	76	0.1	6.772	A
2	498	288	838	0.594	495	1.4	10.444	B
3	350	513	1410	0.248	350	0.3	3.395	A
4	756	226	1483	0.510	755	1.0	4.937	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	76	894	607	0.125	76	0.1	6.783	A
2	498	288	838	0.594	498	1.4	10.578	B
3	350	515	1409	0.249	350	0.3	3.399	A
4	756	227	1483	0.510	756	1.0	4.955	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	62	731	680	0.091	62	0.1	5.826	A
2	406	236	862	0.471	408	0.9	7.979	A
3	286	423	1471	0.194	286	0.2	3.041	A
4	618	186	1508	0.410	619	0.7	4.056	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	52	612	734	0.071	52	0.1	5.279	A
2	340	198	880	0.387	341	0.6	6.704	A
3	239	353	1517	0.158	240	0.2	2.819	A
4	517	155	1526	0.339	518	0.5	3.574	A

2035 With 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	11.31	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D20	2035 With Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	134	100.000
2		✓	607	100.000
3		✓	621	100.000
4		✓	805	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	63	25	46
	2	69	0	0	538
	3	21	335	0	265
	4	44	527	234	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.32	11.44	0.5	B
2	0.80	20.99	3.7	C
3	0.53	6.05	1.1	A
4	0.67	8.13	2.0	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	101	821	637	0.158	100	0.2	6.691	A
2	457	228	889	0.514	453	1.0	8.186	A
3	468	487	1429	0.327	466	0.5	3.730	A
4	606	318	1421	0.427	603	0.7	4.388	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	984	564	0.214	120	0.3	8.113	A
2	546	274	867	0.629	543	1.6	11.035	B
3	558	584	1365	0.409	557	0.7	4.452	A
4	724	381	1382	0.524	722	1.1	5.447	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	1203	464	0.318	147	0.5	11.325	B
2	668	334	838	0.798	661	3.6	19.481	C
3	684	711	1283	0.533	682	1.1	5.972	A
4	886	466	1330	0.666	883	1.9	7.992	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	1207	462	0.319	148	0.5	11.443	B
2	668	336	837	0.798	668	3.7	20.988	C
3	684	718	1278	0.535	684	1.1	6.055	A
4	886	468	1329	0.667	886	2.0	8.129	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	989	561	0.215	121	0.3	8.202	A
2	546	276	866	0.630	554	1.8	11.800	B
3	558	595	1358	0.411	560	0.7	4.521	A
4	724	384	1380	0.524	727	1.1	5.541	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	101	827	635	0.159	101	0.2	6.753	A
2	457	230	888	0.515	460	1.1	8.466	A
3	468	494	1424	0.328	468	0.5	3.770	A
4	606	321	1419	0.427	608	0.8	4.443	A

2035 With Development, SAT

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	10.12	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D21	2035 With Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	160	100.000
2		✓	535	100.000
3		✓	641	100.000
4		✓	868	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	74	30	56
	2	59	0	0	476
	3	27	314	0	300
	4	66	525	277	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.39	12.84	0.6	B
2	0.73	16.43	2.6	C
3	0.53	5.77	1.1	A
4	0.70	8.98	2.3	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	836	634	0.190	120	0.2	6.991	A
2	403	272	868	0.464	399	0.9	7.631	A
3	483	441	1466	0.329	481	0.5	3.644	A
4	653	300	1442	0.453	650	0.8	4.526	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	144	1001	559	0.257	143	0.3	8.655	A
2	481	326	842	0.571	479	1.3	9.865	A
3	576	529	1409	0.409	575	0.7	4.317	A
4	780	359	1406	0.555	779	1.2	5.722	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	176	1224	458	0.384	175	0.6	12.659	B
2	589	398	808	0.729	584	2.5	15.744	C
3	706	645	1333	0.530	704	1.1	5.711	A
4	956	439	1357	0.704	951	2.3	8.781	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	176	1229	456	0.386	176	0.6	12.844	B
2	589	400	807	0.730	589	2.6	16.432	C
3	706	650	1330	0.531	706	1.1	5.770	A
4	956	440	1356	0.705	956	2.3	8.976	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	144	1008	556	0.259	145	0.4	8.781	A
2	481	328	841	0.572	486	1.4	10.277	B
3	576	537	1404	0.410	578	0.7	4.366	A
4	780	361	1405	0.555	785	1.3	5.843	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	842	631	0.191	121	0.2	7.065	A
2	403	274	867	0.465	405	0.9	7.824	A
3	483	447	1463	0.330	483	0.5	3.678	A
4	653	302	1441	0.453	655	0.8	4.589	A

2025 Sensitivity Test, 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	5.80	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D22	2025 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	63	100.000
2		✓	424	100.000
3		✓	297	100.000
4		✓	645	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	29	19	15
	2	31	0	0	393
	3	8	151	0	138
	4	35	398	212	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	2
	3	0	1	0	1
	4	0	1	0	1

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.11	6.40	0.1	A
2	0.55	9.31	1.2	A
3	0.23	3.25	0.3	A
4	0.48	4.59	0.9	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	571	753	0.063	47	0.1	5.100	A
2	319	184	894	0.357	317	0.5	6.220	A
3	224	328	1536	0.146	223	0.2	2.739	A
4	486	143	1534	0.317	484	0.5	3.421	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	683	702	0.081	57	0.1	5.578	A
2	381	221	877	0.435	380	0.8	7.242	A
3	267	394	1493	0.179	267	0.2	2.936	A
4	580	171	1517	0.382	579	0.6	3.836	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	837	633	0.110	69	0.1	6.388	A
2	467	270	854	0.547	465	1.2	9.226	A
3	327	482	1434	0.228	327	0.3	3.251	A
4	710	209	1494	0.475	709	0.9	4.581	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	69	838	632	0.110	69	0.1	6.397	A
2	467	271	853	0.547	467	1.2	9.307	A
3	327	483	1433	0.228	327	0.3	3.254	A
4	710	209	1494	0.476	710	0.9	4.595	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	57	685	701	0.081	57	0.1	5.590	A
2	381	222	876	0.435	383	0.8	7.318	A
3	267	396	1491	0.179	267	0.2	2.942	A
4	580	171	1517	0.382	581	0.6	3.852	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	47	574	752	0.063	48	0.1	5.115	A
2	319	185	893	0.357	320	0.6	6.294	A
3	224	331	1534	0.146	224	0.2	2.747	A
4	486	143	1534	0.317	486	0.5	3.440	A

2025 Sensitivity Test, 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	9.47	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D23	2025 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	123	100.000
2		✓	576	100.000
3		✓	577	100.000
4		✓	762	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	58	23	42
	2	63	0	0	513
	3	19	309	0	249
	4	40	501	221	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.27	10.02	0.4	B
2	0.75	16.78	2.9	C
3	0.49	5.39	0.9	A
4	0.62	7.02	1.6	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	773	659	0.140	92	0.2	6.337	A
2	434	214	895	0.484	430	0.9	7.677	A
3	434	461	1445	0.301	433	0.4	3.548	A
4	574	293	1436	0.399	571	0.7	4.149	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	925	590	0.187	110	0.2	7.501	A
2	518	257	875	0.592	516	1.4	9.966	A
3	519	554	1385	0.374	518	0.6	4.150	A
4	685	351	1401	0.489	684	0.9	5.014	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1132	496	0.273	135	0.4	9.951	A
2	634	314	848	0.748	629	2.8	16.034	C
3	635	675	1307	0.486	634	0.9	5.341	A
4	839	429	1353	0.620	836	1.6	6.938	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	135	1135	495	0.274	135	0.4	10.022	B
2	634	315	847	0.748	634	2.9	16.784	C
3	635	680	1303	0.488	635	0.9	5.390	A
4	839	430	1352	0.621	839	1.6	7.017	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	111	930	588	0.188	111	0.2	7.558	A
2	518	258	874	0.592	523	1.5	10.410	B
3	519	561	1380	0.376	520	0.6	4.190	A
4	685	353	1399	0.490	688	1.0	5.077	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	93	778	657	0.141	93	0.2	6.383	A
2	434	216	895	0.485	436	1.0	7.883	A
3	434	467	1441	0.301	435	0.4	3.579	A
4	574	295	1435	0.400	575	0.7	4.192	A

2025 Sensitivity Test, SAT

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	8.46	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D24	2025 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	145	100.000
2		✓	501	100.000
3		✓	591	100.000
4		✓	816	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	67	27	51
	2	54	0	0	447
	3	25	287	0	279
	4	60	496	260	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.32	10.81	0.5	B
2	0.67	13.38	2.0	B
3	0.48	5.09	0.9	A
4	0.65	7.48	1.8	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	782	658	0.166	108	0.2	6.539	A
2	377	253	877	0.430	374	0.7	7.123	A
3	445	412	1485	0.300	443	0.4	3.448	A
4	614	274	1458	0.421	611	0.7	4.238	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	936	588	0.222	130	0.3	7.848	A
2	450	303	853	0.528	449	1.1	8.881	A
3	531	495	1431	0.371	531	0.6	3.994	A
4	734	329	1425	0.515	732	1.0	5.189	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1145	494	0.323	159	0.5	10.713	B
2	552	371	821	0.672	548	2.0	13.041	B
3	651	604	1360	0.479	649	0.9	5.058	A
4	898	402	1380	0.651	895	1.8	7.384	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	160	1148	493	0.324	160	0.5	10.809	B
2	552	372	820	0.673	551	2.0	13.379	B
3	651	608	1358	0.479	651	0.9	5.092	A
4	898	403	1379	0.651	898	1.8	7.485	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	130	941	586	0.222	131	0.3	7.925	A
2	450	305	852	0.529	454	1.1	9.122	A
3	531	500	1428	0.372	533	0.6	4.026	A
4	734	330	1424	0.515	737	1.1	5.263	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	109	787	656	0.166	110	0.2	6.595	A
2	377	255	876	0.431	379	0.8	7.263	A
3	445	417	1482	0.300	446	0.4	3.477	A
4	614	276	1457	0.422	616	0.7	4.285	A

2030 Sensitivity Test, 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	6.18	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D25	2030 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	67	100.000
2		✓	445	100.000
3		✓	310	100.000
4		✓	675	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	31	20	16
	2	33	0	0	412
	3	8	158	0	144
	4	37	416	222	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	2
	3	0	1	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.12	6.66	0.1	A
2	0.58	10.07	1.4	B
3	0.24	3.35	0.3	A
4	0.50	4.84	1.0	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	50	597	741	0.068	50	0.1	5.208	A
2	335	193	889	0.377	333	0.6	6.439	A
3	233	345	1525	0.153	233	0.2	2.783	A
4	508	149	1530	0.332	506	0.5	3.510	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	60	715	688	0.088	60	0.1	5.736	A
2	400	232	872	0.459	399	0.8	7.602	A
3	279	413	1479	0.188	278	0.2	2.997	A
4	607	179	1512	0.401	606	0.7	3.971	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	74	875	615	0.120	74	0.1	6.645	A
2	490	284	848	0.578	488	1.3	9.954	A
3	341	506	1418	0.241	341	0.3	3.342	A
4	743	219	1488	0.500	742	1.0	4.820	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	74	876	615	0.120	74	0.1	6.655	A
2	490	284	847	0.578	490	1.4	10.066	B
3	341	508	1417	0.241	341	0.3	3.346	A
4	743	219	1487	0.500	743	1.0	4.836	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	60	717	687	0.088	60	0.1	5.750	A
2	400	232	871	0.459	402	0.9	7.704	A
3	279	416	1477	0.189	279	0.2	3.006	A
4	607	179	1512	0.401	608	0.7	3.988	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	50	600	740	0.068	51	0.1	5.224	A
2	335	195	889	0.377	336	0.6	6.524	A
3	233	348	1523	0.153	234	0.2	2.794	A
4	508	150	1530	0.332	509	0.5	3.528	A

2030 Sensitivity Test, 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	10.77	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D26	2030 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	129	100.000
2		✓	601	100.000
3		✓	604	100.000
4		✓	794	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	61	24	44
	2	66	0	0	535
	3	20	324	0	260
	4	42	522	230	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.30	10.90	0.4	B
2	0.79	19.84	3.5	C
3	0.52	5.82	1.1	A
4	0.65	7.74	1.9	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	97	806	644	0.151	96	0.2	6.564	A
2	452	223	891	0.508	448	1.0	8.062	A
3	455	481	1432	0.317	453	0.5	3.669	A
4	598	307	1427	0.419	595	0.7	4.309	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	966	572	0.203	116	0.3	7.889	A
2	540	267	870	0.621	538	1.6	10.766	B
3	543	577	1370	0.396	542	0.7	4.346	A
4	714	368	1390	0.513	712	1.0	5.301	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	142	1181	474	0.300	141	0.4	10.808	B
2	662	327	842	0.786	655	3.4	18.567	C
3	665	703	1288	0.516	663	1.1	5.746	A
4	874	450	1340	0.652	871	1.8	7.626	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	142	1185	472	0.301	142	0.4	10.904	B
2	662	328	841	0.787	661	3.5	19.839	C
3	665	710	1284	0.518	665	1.1	5.816	A
4	874	451	1339	0.653	874	1.9	7.744	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	971	569	0.204	117	0.3	7.966	A
2	540	269	869	0.622	548	1.7	11.438	B
3	543	587	1363	0.398	545	0.7	4.404	A
4	714	370	1389	0.514	717	1.1	5.383	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	97	812	642	0.151	97	0.2	6.619	A
2	452	225	890	0.508	455	1.1	8.321	A
3	455	488	1428	0.318	456	0.5	3.707	A
4	598	309	1426	0.419	599	0.7	4.362	A

2030 Sensitivity Test, SAT

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	9.53	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D27	2030 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	154	100.000
2		✓	525	100.000
3		✓	621	100.000
4		✓	854	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	71	29	54
	2	57	0	0	468
	3	26	302	0	293
	4	63	519	272	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.36	12.07	0.6	B
2	0.71	15.38	2.4	C
3	0.51	5.50	1.0	A
4	0.69	8.44	2.2	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	819	641	0.181	115	0.2	6.830	A
2	395	266	871	0.454	392	0.8	7.470	A
3	468	432	1472	0.318	466	0.5	3.571	A
4	643	289	1449	0.444	640	0.8	4.430	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	138	981	568	0.244	138	0.3	8.361	A
2	472	318	846	0.558	470	1.2	9.547	A
3	558	519	1416	0.394	558	0.6	4.191	A
4	768	346	1414	0.543	766	1.2	5.540	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	170	1199	470	0.361	169	0.6	11.920	B
2	578	389	812	0.712	574	2.3	14.828	B
3	684	633	1341	0.510	682	1.0	5.452	A
4	940	423	1367	0.688	936	2.1	8.284	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	170	1203	468	0.362	170	0.6	12.070	B
2	578	391	811	0.713	578	2.4	15.380	C
3	684	637	1338	0.511	684	1.0	5.500	A
4	940	424	1366	0.688	940	2.2	8.441	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	138	987	565	0.245	139	0.3	8.468	A
2	472	321	844	0.559	476	1.3	9.897	A
3	558	525	1411	0.396	560	0.7	4.236	A
4	768	347	1413	0.543	772	1.2	5.645	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	116	825	639	0.182	116	0.2	6.896	A
2	395	268	870	0.454	397	0.8	7.648	A
3	468	438	1469	0.318	468	0.5	3.600	A
4	643	290	1448	0.444	645	0.8	4.490	A

2035 Sensitivity Test, 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	6.54	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D28	2035 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	69	100.000
2		✓	458	100.000
3		✓	320	100.000
4		✓	698	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	32	21	16
	2	34	0	0	424
	3	9	163	0	148
	4	38	430	230	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	1	0	1
	4	0	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.13	6.85	0.1	A
2	0.60	10.87	1.5	B
3	0.25	3.42	0.3	A
4	0.52	5.04	1.1	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	52	617	732	0.071	52	0.1	5.290	A
2	345	200	878	0.393	342	0.6	6.695	A
3	241	354	1517	0.159	240	0.2	2.818	A
4	525	154	1527	0.344	523	0.5	3.579	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	62	739	677	0.092	62	0.1	5.855	A
2	412	240	860	0.479	411	0.9	7.991	A
3	288	425	1469	0.196	287	0.2	3.046	A
4	627	185	1508	0.416	627	0.7	4.080	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	76	905	602	0.126	76	0.1	6.842	A
2	504	293	835	0.604	502	1.5	10.720	B
3	352	520	1406	0.251	352	0.3	3.416	A
4	769	226	1483	0.518	767	1.1	5.018	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	76	906	601	0.126	76	0.1	6.853	A
2	504	294	835	0.604	504	1.5	10.868	B
3	352	522	1404	0.251	352	0.3	3.421	A
4	769	227	1483	0.518	768	1.1	5.039	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	62	741	676	0.092	62	0.1	5.868	A
2	412	241	860	0.479	414	0.9	8.119	A
3	288	428	1467	0.196	288	0.2	3.056	A
4	627	186	1508	0.416	629	0.7	4.101	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	52	620	730	0.071	52	0.1	5.309	A
2	345	201	878	0.393	346	0.7	6.782	A
3	241	358	1514	0.159	241	0.2	2.829	A
4	525	155	1526	0.344	526	0.5	3.601	A

2035 Sensitivity Test, 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	12.10	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D29	2035 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	134	100.000
2		✓	620	100.000
3		✓	625	100.000
4		✓	820	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	63	25	46
	2	69	0	0	551
	3	21	335	0	269
	4	44	538	238	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	2	0	1
	4	0	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.32	11.72	0.5	B
2	0.82	23.10	4.2	C
3	0.54	6.20	1.2	A
4	0.68	8.44	2.1	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	101	832	632	0.160	100	0.2	6.755	A
2	467	231	887	0.526	462	1.1	8.392	A
3	471	497	1422	0.331	469	0.5	3.766	A
4	617	318	1421	0.435	614	0.8	4.448	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	997	557	0.216	120	0.3	8.219	A
2	557	277	865	0.644	555	1.8	11.482	B
3	562	596	1358	0.414	561	0.7	4.513	A
4	737	381	1382	0.533	736	1.1	5.558	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	1219	457	0.323	147	0.5	11.589	B
2	683	339	836	0.817	674	4.0	21.112	C
3	688	724	1274	0.540	686	1.2	6.122	A
4	903	466	1330	0.679	899	2.1	8.285	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	1223	455	0.325	148	0.5	11.722	B
2	683	340	835	0.817	682	4.2	23.105	C
3	688	732	1269	0.542	688	1.2	6.196	A
4	903	468	1329	0.679	903	2.1	8.442	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	1003	555	0.217	121	0.3	8.323	A
2	557	279	864	0.645	567	1.9	12.445	B
3	562	608	1350	0.416	564	0.7	4.589	A
4	737	384	1380	0.534	741	1.2	5.662	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	101	838	630	0.160	101	0.2	6.816	A
2	467	233	886	0.527	470	1.1	8.705	A
3	471	505	1417	0.332	471	0.5	3.811	A
4	617	321	1419	0.435	619	0.8	4.508	A

2035 Sensitivity Test, SAT

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	10.56	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D30	2035 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	160	100.000
2		✓	543	100.000
3		✓	644	100.000
4		✓	884	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	74	30	56
	2	59	0	0	484
	3	27	314	0	303
	4	66	536	282	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	0
	3	0	1	0	1
	4	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.39	13.22	0.6	B
2	0.74	17.32	2.8	C
3	0.54	5.86	1.1	A
4	0.72	9.38	2.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	848	628	0.192	120	0.2	7.065	A
2	409	275	866	0.472	405	0.9	7.755	A
3	485	447	1462	0.332	483	0.5	3.666	A
4	666	300	1442	0.461	662	0.8	4.596	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	144	1016	552	0.260	143	0.3	8.790	A
2	488	330	840	0.581	486	1.4	10.118	B
3	579	536	1404	0.412	578	0.7	4.354	A
4	795	359	1406	0.565	793	1.3	5.855	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	176	1241	451	0.391	175	0.6	13.010	B
2	598	403	805	0.742	592	2.7	16.504	C
3	709	654	1327	0.534	707	1.1	5.790	A
4	973	439	1357	0.717	969	2.5	9.159	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	176	1246	448	0.393	176	0.6	13.218	B
2	598	405	804	0.743	597	2.8	17.323	C
3	709	659	1324	0.536	709	1.1	5.855	A
4	973	440	1356	0.718	973	2.5	9.385	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	144	1023	549	0.262	145	0.4	8.928	A
2	488	333	839	0.582	494	1.4	10.588	B
3	579	544	1399	0.414	581	0.7	4.408	A
4	795	361	1405	0.566	799	1.3	5.993	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	120	854	625	0.193	121	0.2	7.142	A
2	409	278	865	0.473	411	0.9	7.965	A
3	485	453	1459	0.332	486	0.5	3.705	A
4	666	302	1441	0.462	667	0.9	4.662	A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.1.7462

For sales and distribution information, program advice and maintenance, contact TRL:
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk

Filename: J2B - Left Turn Lane.j9
Path: C:\Users\lloyd\Corun Associates Ltd\Communication site - Documents\23-00849 - Lidl, Land at Pontymister, Risca\Capacity Analysis\PICADY
Report generation date: 18/10/2024 15:26:27

Summary of junction performance

	AM Peak					PM Peak					Saturday				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2024 Survey Flows														
Stream B-AC	D1	0.6	8.64	0.37	A	D2	1.1	11.24	0.52	B	D3	1.1	11.09	0.52	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2025 Without Development														
Stream B-AC	D4	0.6	8.66	0.38	A	D5	1.1	11.28	0.52	B	D6	1.1	11.17	0.52	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2030 Without Development														
Stream B-AC	D7	0.6	8.92	0.39	A	D8	1.2	11.91	0.55	B	D9	1.2	11.83	0.55	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2035 Without Development														
Stream B-AC	D10	0.7	9.13	0.41	A	D11	1.3	12.46	0.57	B	D12	1.3	12.43	0.57	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2025 With Development														
Stream B-AC	D13	0.6	8.66	0.38	A	D14	1.1	11.28	0.52	B	D16	1.1	11.17	0.52	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2030 With Development														
Stream B-AC	D17	0.6	8.92	0.39	A	D18	1.2	11.91	0.55	B	D19	1.2	11.83	0.55	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2035 With Development														
Stream B-AC	D20	0.7	9.13	0.41	A	D21	1.3	12.46	0.57	B	D22	1.3	12.43	0.57	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2025 Sensitivity Test														
Stream B-AC	D23	0.6	8.66	0.38	A	D24	1.1	11.28	0.52	B	D25	1.1	11.17	0.52	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2030 Sensitivity Test														
Stream B-AC	D26	0.6	8.92	0.39	A	D27	1.2	11.91	0.55	B	D28	1.2	11.83	0.55	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2035 Sensitivity Test														
Stream B-AC	D29	0.7	9.13	0.41	A	D30	1.3	12.46	0.57	B	D31	1.3	12.43	0.57	B
Stream C-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A

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

File summary

File Description

Title	
Location	
Site number	
Date	03/10/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LAPTOP-7PJKROJB\lloyd
Description	

Units

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

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM Peak	ONE HOUR	08:15	09:45	15
D2	2024 Survey Flows	PM Peak	ONE HOUR	15:15	16:45	15
D3	2024 Survey Flows	Saturday	ONE HOUR	12:15	13:45	15
D4	2025 Without Development	AM Peak	ONE HOUR	08:15	09:45	15
D5	2025 Without Development	PM Peak	ONE HOUR	15:15	16:45	15
D6	2025 Without Development	Saturday	ONE HOUR	12:15	13:45	15
D7	2030 Without Development	AM Peak	ONE HOUR	08:15	09:45	15
D8	2030 Without Development	PM Peak	ONE HOUR	15:15	16:45	15
D9	2030 Without Development	Saturday	ONE HOUR	12:15	13:45	15
D10	2035 Without Development	AM Peak	ONE HOUR	08:15	09:45	15
D11	2035 Without Development	PM Peak	ONE HOUR	15:15	16:45	15
D12	2035 Without Development	Saturday	ONE HOUR	12:15	13:45	15
D13	2025 With Development	AM Peak	ONE HOUR	08:15	09:45	15
D14	2025 With Development	PM Peak	ONE HOUR	15:15	16:45	15
D16	2025 With Development	Saturday	ONE HOUR	12:15	13:45	15
D17	2030 With Development	AM Peak	ONE HOUR	08:15	09:45	15
D18	2030 With Development	PM Peak	ONE HOUR	15:15	16:45	15
D19	2030 With Development	Saturday	ONE HOUR	12:15	13:45	15
D20	2035 With Development	AM Peak	ONE HOUR	08:15	09:45	15
D21	2035 With Development	PM Peak	ONE HOUR	15:15	16:45	15
D22	2035 With Development	Saturday	ONE HOUR	12:15	13:45	15
D23	2025 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15
D24	2025 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15
D25	2025 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15
D26	2030 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15
D27	2030 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15
D28	2030 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15
D29	2035 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15
D30	2035 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15
D31	2035 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Survey Flows, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Tesco Access (East)		Major
B	Left Turn Lane		Minor
C	Tesco Access (West)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.21			100.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.50	60	46

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	546	0.094	0.238	0.150	0.340
B-C	685	0.100	0.252	-	-
C-B	632	0.232	0.232	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	19	100.000
B		✓	227	100.000
C		✓	286	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	19
	B	0	0	227
	C	286	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.37	8.64	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	171	668	0.256	170	0.3	7.198	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	215			215			
A-B	0			0			
A-C	14			14			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	204	668	0.306	204	0.4	7.752	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	257			257			
A-B	0			0			
A-C	17			17			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	250	667	0.375	249	0.6	8.611	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	315			315			
A-B	0			0			
A-C	21			21			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	250	667	0.375	250	0.6	8.636	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	315			315			
A-B	0			0			
A-C	21			21			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	204	668	0.306	205	0.4	7.786	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	257			257			
A-B	0			0			
A-C	17			17			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	171	668	0.256	171	0.3	7.249	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	215			215			
A-B	0			0			
A-C	14			14			

2024 Survey Flows, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Survey Flows	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	23	100.000
B		✓	314	100.000
C		✓	556	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	23
	B	0	0	314
	C	556	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.24	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	236	668	0.354	234	0.5	8.266	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	419			419			
A-B	0			0			
A-C	17			17			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	282	667	0.423	282	0.7	9.326	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	500			500			
A-B	0			0			
A-C	21			21			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	346	666	0.519	344	1.1	11.156	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	612			612			
A-B	0			0			
A-C	25			25			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	346	666	0.519	346	1.1	11.244	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	612			612			
A-B	0			0			
A-C	25			25			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	282	667	0.423	284	0.7	9.426	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	500			500			
A-B	0			0			
A-C	21			21			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	236	668	0.354	237	0.6	8.379	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	419			419			
A-B	0			0			
A-C	17			17			

2024 Survey Flows, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.84	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2024 Survey Flows	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	27	100.000
B		✓	315	100.000
C		✓	567	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	27
	B	0	0	315
	C	567	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.09	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	673	0.352	235	0.5	8.171	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	427			427			
A-B	0			0			
A-C	20			20			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	673	0.421	282	0.7	9.211	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	510			510			
A-B	0			0			
A-C	24			24			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	671	0.517	346	1.0	11.007	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	624			624			
A-B	0			0			
A-C	30			30			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	671	0.517	347	1.1	11.092	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	624			624			
A-B	0			0			
A-C	30			30			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	673	0.421	284	0.7	9.308	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	510			510			
A-B	0			0			
A-C	24			24			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	673	0.352	238	0.6	8.280	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	427			427			
A-B	0			0			
A-C	20			20			

2025 Without Development, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2025 Without Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	19	100.000
B		✓	228	100.000
C		✓	288	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	19
	B	0	0	228
	C	288	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.38	8.66	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	668	0.257	170	0.3	7.209	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	217			217			
A-B	0			0			
A-C	14			14			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	205	668	0.307	205	0.4	7.767	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	259			259			
A-B	0			0			
A-C	17			17			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	667	0.377	250	0.6	8.634	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	317			317			
A-B	0			0			
A-C	21			21			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	667	0.377	251	0.6	8.659	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	317			317			
A-B	0			0			
A-C	21			21			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	205	668	0.307	206	0.4	7.801	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	259			259			
A-B	0			0			
A-C	17			17			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	668	0.257	172	0.3	7.261	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	217			217			
A-B	0			0			
A-C	14			14			

2025 Without Development, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2025 Without Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	23	100.000
B		✓	315	100.000
C		✓	558	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	23
	B	0	0	315
	C	558	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.28	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	668	0.355	235	0.5	8.280	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	420			420			
A-B	0			0			
A-C	17			17			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	667	0.425	282	0.7	9.344	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	502			502			
A-B	0			0			
A-C	21			21			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	666	0.521	345	1.1	11.195	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	614			614			
A-B	0			0			
A-C	25			25			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	666	0.521	347	1.1	11.283	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	614			614			
A-B	0			0			
A-C	25			25			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	667	0.425	284	0.8	9.449	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	502			502			
A-B	0			0			
A-C	21			21			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	668	0.355	238	0.6	8.392	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	420			420			
A-B	0			0			
A-C	17			17			

2025 Without Development, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2025 Without Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	27	100.000
B		✓	317	100.000
C		✓	569	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	27
	B	0	0	317
	C	569	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.17	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	239	673	0.354	236	0.5	8.199	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	428			428			
A-B	0			0			
A-C	20			20			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	285	673	0.424	284	0.7	9.254	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	512			512			
A-B	0			0			
A-C	24			24			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	349	671	0.520	348	1.1	11.081	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	626			626			
A-B	0			0			
A-C	30			30			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	349	671	0.520	349	1.1	11.168	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	626			626			
A-B	0			0			
A-C	30			30			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	285	673	0.424	286	0.7	9.353	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	512			512			
A-B	0			0			
A-C	24			24			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	239	673	0.354	239	0.6	8.309	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	428			428			
A-B	0			0			
A-C	20			20			

2030 Without Development, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2030 Without Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	20	100.000
B		✓	239	100.000
C		✓	301	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	20
	B	0	0	239
	C	301	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	8.92	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	180	668	0.269	178	0.4	7.328	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	227			227			
A-B	0			0			
A-C	15			15			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	667	0.322	214	0.5	7.939	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	271			271			
A-B	0			0			
A-C	18			18			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	263	666	0.395	262	0.6	8.896	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	331			331			
A-B	0			0			
A-C	22			22			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	263	666	0.395	263	0.6	8.925	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	331			331			
A-B	0			0			
A-C	22			22			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	667	0.322	216	0.5	7.978	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	271			271			
A-B	0			0			
A-C	18			18			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	180	668	0.269	180	0.4	7.388	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	227			227			
A-B	0			0			
A-C	15			15			

2030 Without Development, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.16	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2030 Without Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	24	100.000
B		✓	330	100.000
C		✓	585	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	24
	B	0	0	330
	C	585	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.55	11.91	1.2	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	248	667	0.372	246	0.6	8.499	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	440			440			
A-B	0			0			
A-C	18			18			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	297	667	0.445	296	0.8	9.687	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	526			526			
A-B	0			0			
A-C	22			22			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	363	665	0.546	362	1.2	11.796	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	644			644			
A-B	0			0			
A-C	26			26			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	363	665	0.546	363	1.2	11.908	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	644			644			
A-B	0			0			
A-C	26			26			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	297	667	0.445	298	0.8	9.809	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	526			526			
A-B	0			0			
A-C	22			22			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	248	667	0.372	249	0.6	8.627	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	440			440			
A-B	0			0			
A-C	18			18			

2030 Without Development, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D9	2030 Without Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	29	100.000
B		✓	333	100.000
C		✓	599	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	29
	B	0	0	333
	C	599	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.55	11.83	1.2	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	673	0.372	248	0.6	8.430	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	451			451			
A-B	0			0			
A-C	22			22			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	299	672	0.445	299	0.8	9.615	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	538			538			
A-B	0			0			
A-C	26			26			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	367	671	0.547	365	1.2	11.722	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	660			660			
A-B	0			0			
A-C	32			32			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	367	671	0.547	367	1.2	11.833	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	660			660			
A-B	0			0			
A-C	32			32			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	299	672	0.445	301	0.8	9.738	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	538			538			
A-B	0			0			
A-C	26			26			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	673	0.372	252	0.6	8.557	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	451			451			
A-B	0			0			
A-C	22			22			

2035 Without Development, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D10	2035 Without Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	21	100.000
B		✓	247	100.000
C		✓	311	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	21
	B	0	0	247
	C	311	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.41	9.13	0.7	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	668	0.278	184	0.4	7.423	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	234			234			
A-B	0			0			
A-C	16			16			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	222	667	0.333	222	0.5	8.070	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	280			280			
A-B	0			0			
A-C	19			19			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	272	666	0.408	271	0.7	9.096	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	342			342			
A-B	0			0			
A-C	23			23			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	272	666	0.408	272	0.7	9.128	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	342			342			
A-B	0			0			
A-C	23			23			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	222	667	0.333	223	0.5	8.113	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	280			280			
A-B	0			0			
A-C	19			19			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	668	0.278	186	0.4	7.484	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	234			234			
A-B	0			0			
A-C	16			16			

2035 Without Development, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.36	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D11	2035 Without Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	25	100.000
B		✓	342	100.000
C		✓	606	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	25
	B	0	0	342
	C	606	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.57	12.46	1.3	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	257	667	0.386	255	0.6	8.681	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	456			456			
A-B	0			0			
A-C	19			19			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	307	666	0.461	307	0.8	9.981	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	545			545			
A-B	0			0			
A-C	22			22			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	377	665	0.566	375	1.3	12.325	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	667			667			
A-B	0			0			
A-C	28			28			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	377	665	0.566	376	1.3	12.462	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	667			667			
A-B	0			0			
A-C	28			28			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	307	666	0.461	309	0.9	10.124	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	545			545			
A-B	0			0			
A-C	22			22			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	257	667	0.386	258	0.6	8.825	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	456			456			
A-B	0			0			
A-C	19			19			

2035 Without Development, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.31	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D12	2035 Without Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	30	100.000
B		✓	346	100.000
C		✓	622	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	30
	B	0	0	346
	C	622	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.57	12.43	1.3	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	260	673	0.387	258	0.6	8.625	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	468			468			
A-B	0			0			
A-C	23			23			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	311	672	0.463	310	0.8	9.926	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	559			559			
A-B	0			0			
A-C	27			27			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	381	670	0.568	379	1.3	12.291	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	685			685			
A-B	0			0			
A-C	33			33			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	381	670	0.568	381	1.3	12.427	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	685			685			
A-B	0			0			
A-C	33			33			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	311	672	0.463	313	0.9	10.070	B
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	559			559			
A-B	0			0			
A-C	27			27			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	260	673	0.387	261	0.6	8.770	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	468			468			
A-B	0			0			
A-C	23			23			

2025 With Development, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.63	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D13	2025 With Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	19	100.000
B		✓	228	100.000
C		✓	295	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	19
	B	0	0	228
	C	295	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.38	8.66	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	668	0.257	170	0.3	7.209	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	222			222			
A-B	0			0			
A-C	14			14			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	205	668	0.307	205	0.4	7.767	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	265			265			
A-B	0			0			
A-C	17			17			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	667	0.377	250	0.6	8.634	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	325			325			
A-B	0			0			
A-C	21			21			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	667	0.377	251	0.6	8.659	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	325			325			
A-B	0			0			
A-C	21			21			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	205	668	0.307	206	0.4	7.801	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	265			265			
A-B	0			0			
A-C	17			17			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	668	0.257	172	0.3	7.261	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	222			222			
A-B	0			0			
A-C	14			14			

2025 With Development, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D14	2025 With Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	23	100.000
B		✓	315	100.000
C		✓	573	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	23
	B	0	0	315
	C	573	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.28	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	668	0.355	235	0.5	8.280	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	431			431			
A-B	0			0			
A-C	17			17			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	667	0.425	282	0.7	9.344	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	515			515			
A-B	0			0			
A-C	21			21			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	666	0.521	345	1.1	11.195	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	631			631			
A-B	0			0			
A-C	25			25			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	666	0.521	347	1.1	11.283	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	631			631			
A-B	0			0			
A-C	25			25			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	667	0.425	284	0.8	9.449	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	515			515			
A-B	0			0			
A-C	21			21			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	668	0.355	238	0.6	8.392	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	431			431			
A-B	0			0			
A-C	17			17			

2025 With Development, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.80	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D16	2025 With Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	27	100.000
B		✓	317	100.000
C		✓	588	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	27
	B	0	0	317
	C	588	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.17	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	239	673	0.354	236	0.5	8.199	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	443			443			
A-B	0			0			
A-C	20			20			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	285	673	0.424	284	0.7	9.254	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	529			529			
A-B	0			0			
A-C	24			24			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	349	671	0.520	348	1.1	11.081	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	647			647			
A-B	0			0			
A-C	30			30			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	349	671	0.520	349	1.1	11.168	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	647			647			
A-B	0			0			
A-C	30			30			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	285	673	0.424	286	0.7	9.353	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	529			529			
A-B	0			0			
A-C	24			24			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	239	673	0.354	239	0.6	8.309	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	443			443			
A-B	0			0			
A-C	20			20			

2030 With Development, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.74	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D17	2030 With Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	20	100.000
B		✓	239	100.000
C		✓	308	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	20
	B	0	0	239
	C	308	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	8.92	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	180	668	0.269	178	0.4	7.328	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	232			232			
A-B	0			0			
A-C	15			15			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	667	0.322	214	0.5	7.939	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	277			277			
A-B	0			0			
A-C	18			18			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	263	666	0.395	262	0.6	8.896	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	339			339			
A-B	0			0			
A-C	22			22			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	263	666	0.395	263	0.6	8.925	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	339			339			
A-B	0			0			
A-C	22			22			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	667	0.322	216	0.5	7.978	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	277			277			
A-B	0			0			
A-C	18			18			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	180	668	0.269	180	0.4	7.388	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	232			232			
A-B	0			0			
A-C	15			15			

2030 With Development, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D18	2030 With Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	24	100.000
B		✓	330	100.000
C		✓	600	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	24
	B	0	0	330
	C	600	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.55	11.91	1.2	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	248	667	0.372	246	0.6	8.499	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	452			452			
A-B	0			0			
A-C	18			18			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	297	667	0.445	296	0.8	9.687	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	539			539			
A-B	0			0			
A-C	22			22			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	363	665	0.546	362	1.2	11.796	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	661			661			
A-B	0			0			
A-C	26			26			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	363	665	0.546	363	1.2	11.908	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	661			661			
A-B	0			0			
A-C	26			26			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	297	667	0.445	298	0.8	9.809	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	539			539			
A-B	0			0			
A-C	22			22			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	248	667	0.372	249	0.6	8.627	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	452			452			
A-B	0			0			
A-C	18			18			

2030 With Development, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D19	2030 With Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	29	100.000
B		✓	333	100.000
C		✓	618	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	29
	B	0	0	333
	C	618	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.55	11.83	1.2	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	673	0.372	248	0.6	8.430	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	465			465			
A-B	0			0			
A-C	22			22			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	299	672	0.445	299	0.8	9.615	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	556			556			
A-B	0			0			
A-C	26			26			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	367	671	0.547	365	1.2	11.722	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	680			680			
A-B	0			0			
A-C	32			32			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	367	671	0.547	367	1.2	11.833	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	680			680			
A-B	0			0			
A-C	32			32			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	299	672	0.445	301	0.8	9.738	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	556			556			
A-B	0			0			
A-C	26			26			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	673	0.372	252	0.6	8.557	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	465			465			
A-B	0			0			
A-C	22			22			

2035 With Development, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D20	2035 With Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	21	100.000
B		✓	247	100.000
C		✓	318	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	21
	B	0	0	247
	C	318	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.41	9.13	0.7	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	668	0.278	184	0.4	7.423	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	239			239			
A-B	0			0			
A-C	16			16			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	222	667	0.333	222	0.5	8.070	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	286			286			
A-B	0			0			
A-C	19			19			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	272	666	0.408	271	0.7	9.096	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	350			350			
A-B	0			0			
A-C	23			23			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	272	666	0.408	272	0.7	9.128	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	350			350			
A-B	0			0			
A-C	23			23			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	222	667	0.333	223	0.5	8.113	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	286			286			
A-B	0			0			
A-C	19			19			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	668	0.278	186	0.4	7.484	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	239			239			
A-B	0			0			
A-C	16			16			

2035 With Development, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.29	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D21	2035 With Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	25	100.000
B		✓	342	100.000
C		✓	621	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	25
	B	0	0	342
	C	621	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.57	12.46	1.3	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	257	667	0.386	255	0.6	8.681	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	468			468			
A-B	0			0			
A-C	19			19			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	307	666	0.461	307	0.8	9.981	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	558			558			
A-B	0			0			
A-C	22			22			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	377	665	0.566	375	1.3	12.325	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	684			684			
A-B	0			0			
A-C	28			28			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	377	665	0.566	376	1.3	12.462	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	684			684			
A-B	0			0			
A-C	28			28			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	307	666	0.461	309	0.9	10.124	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	558			558			
A-B	0			0			
A-C	22			22			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	257	667	0.386	258	0.6	8.825	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	468			468			
A-B	0			0			
A-C	19			19			

2035 With Development, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.23	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D22	2035 With Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	30	100.000
B		✓	346	100.000
C		✓	641	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	30
	B	0	0	346
	C	641	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.57	12.43	1.3	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	260	673	0.387	258	0.6	8.625	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	483			483			
A-B	0			0			
A-C	23			23			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	311	672	0.463	310	0.8	9.926	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	576			576			
A-B	0			0			
A-C	27			27			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	381	670	0.568	379	1.3	12.291	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	706			706			
A-B	0			0			
A-C	33			33			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	381	670	0.568	381	1.3	12.427	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	706			706			
A-B	0			0			
A-C	33			33			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	311	672	0.463	313	0.9	10.070	B
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	576			576			
A-B	0			0			
A-C	27			27			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	260	673	0.387	261	0.6	8.770	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	483			483			
A-B	0			0			
A-C	23			23			

2025 Sensitivity Test, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.61	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D23	2025 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	19	100.000
B		✓	228	100.000
C		✓	297	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	19
	B	0	0	228
	C	297	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.38	8.66	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	668	0.257	170	0.3	7.209	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	224			224			
A-B	0			0			
A-C	14			14			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	205	668	0.307	205	0.4	7.767	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	267			267			
A-B	0			0			
A-C	17			17			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	667	0.377	250	0.6	8.634	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	327			327			
A-B	0			0			
A-C	21			21			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	667	0.377	251	0.6	8.659	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	327			327			
A-B	0			0			
A-C	21			21			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	205	668	0.307	206	0.4	7.801	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	267			267			
A-B	0			0			
A-C	17			17			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	668	0.257	172	0.3	7.261	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	224			224			
A-B	0			0			
A-C	14			14			

2025 Sensitivity Test, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.87	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D24	2025 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	23	100.000
B		✓	315	100.000
C		✓	576	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	23
	B	0	0	315
	C	576	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.28	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	668	0.355	235	0.5	8.280	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	434			434			
A-B	0			0			
A-C	17			17			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	667	0.425	282	0.7	9.344	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	518			518			
A-B	0			0			
A-C	21			21			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	666	0.521	345	1.1	11.195	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	634			634			
A-B	0			0			
A-C	25			25			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	347	666	0.521	347	1.1	11.283	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	634			634			
A-B	0			0			
A-C	25			25			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	283	667	0.425	284	0.8	9.449	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	518			518			
A-B	0			0			
A-C	21			21			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	237	668	0.355	238	0.6	8.392	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	434			434			
A-B	0			0			
A-C	17			17			

2025 Sensitivity Test, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D25	2025 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	27	100.000
B		✓	317	100.000
C		✓	591	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	27
	B	0	0	317
	C	591	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.52	11.17	1.1	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	239	673	0.354	236	0.5	8.199	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	445			445			
A-B	0			0			
A-C	20			20			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	285	673	0.424	284	0.7	9.254	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	531			531			
A-B	0			0			
A-C	24			24			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	349	671	0.520	348	1.1	11.081	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	651			651			
A-B	0			0			
A-C	30			30			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	349	671	0.520	349	1.1	11.168	B
C-AB	0	622	0.000	0	0.0	0.000	A
C-A	651			651			
A-B	0			0			
A-C	30			30			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	285	673	0.424	286	0.7	9.353	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	531			531			
A-B	0			0			
A-C	24			24			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	239	673	0.354	239	0.6	8.309	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	445			445			
A-B	0			0			
A-C	20			20			

2030 Sensitivity Test, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.73	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D26	2030 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	20	100.000
B		✓	239	100.000
C		✓	310	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	20
	B	0	0	239
	C	310	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	8.92	0.6	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	180	668	0.269	178	0.4	7.328	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	233			233			
A-B	0			0			
A-C	15			15			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	667	0.322	214	0.5	7.939	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	279			279			
A-B	0			0			
A-C	18			18			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	263	666	0.395	262	0.6	8.896	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	341			341			
A-B	0			0			
A-C	22			22			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	263	666	0.395	263	0.6	8.925	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	341			341			
A-B	0			0			
A-C	22			22			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	667	0.322	216	0.5	7.978	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	279			279			
A-B	0			0			
A-C	18			18			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	180	668	0.269	180	0.4	7.388	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	233			233			
A-B	0			0			
A-C	15			15			

2030 Sensitivity Test, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D27	2030 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	24	100.000
B		✓	330	100.000
C		✓	603	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	24
	B	0	0	330
	C	603	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.55	11.91	1.2	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	248	667	0.372	246	0.6	8.499	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	454			454			
A-B	0			0			
A-C	18			18			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	297	667	0.445	296	0.8	9.687	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	542			542			
A-B	0			0			
A-C	22			22			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	363	665	0.546	362	1.2	11.796	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	664			664			
A-B	0			0			
A-C	26			26			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	363	665	0.546	363	1.2	11.908	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	664			664			
A-B	0			0			
A-C	26			26			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	297	667	0.445	298	0.8	9.809	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	542			542			
A-B	0			0			
A-C	22			22			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	248	667	0.372	249	0.6	8.627	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	454			454			
A-B	0			0			
A-C	18			18			

2030 Sensitivity Test, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.01	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D28	2030 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	29	100.000
B		✓	333	100.000
C		✓	621	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	29
	B	0	0	333
	C	621	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.55	11.83	1.2	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	673	0.372	248	0.6	8.430	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	468			468			
A-B	0			0			
A-C	22			22			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	299	672	0.445	299	0.8	9.615	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	558			558			
A-B	0			0			
A-C	26			26			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	367	671	0.547	365	1.2	11.722	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	684			684			
A-B	0			0			
A-C	32			32			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	367	671	0.547	367	1.2	11.833	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	684			684			
A-B	0			0			
A-C	32			32			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	299	672	0.445	301	0.8	9.738	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	558			558			
A-B	0			0			
A-C	26			26			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	251	673	0.372	252	0.6	8.557	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	468			468			
A-B	0			0			
A-C	22			22			

2035 Sensitivity Test, AM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D29	2035 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	21	100.000
B		✓	247	100.000
C		✓	320	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	21
	B	0	0	247
	C	320	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.41	9.13	0.7	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	668	0.278	184	0.4	7.423	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	241			241			
A-B	0			0			
A-C	16			16			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	222	667	0.333	222	0.5	8.070	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	288			288			
A-B	0			0			
A-C	19			19			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	272	666	0.408	271	0.7	9.096	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	352			352			
A-B	0			0			
A-C	23			23			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	272	666	0.408	272	0.7	9.128	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	352			352			
A-B	0			0			
A-C	23			23			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	222	667	0.333	223	0.5	8.113	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	288			288			
A-B	0			0			
A-C	19			19			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	668	0.278	186	0.4	7.484	A
C-AB	0	619	0.000	0	0.0	0.000	A
C-A	241			241			
A-B	0			0			
A-C	16			16			

2035 Sensitivity Test, PM Peak

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.28	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D30	2035 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	25	100.000
B		✓	342	100.000
C		✓	624	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	25
	B	0	0	342
	C	624	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	2
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.57	12.46	1.3	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	257	667	0.386	255	0.6	8.681	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	470			470			
A-B	0			0			
A-C	19			19			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	307	666	0.461	307	0.8	9.981	A
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	561			561			
A-B	0			0			
A-C	22			22			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	377	665	0.566	375	1.3	12.325	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	687			687			
A-B	0			0			
A-C	28			28			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	377	665	0.566	376	1.3	12.462	B
C-AB	0	616	0.000	0	0.0	0.000	A
C-A	687			687			
A-B	0			0			
A-C	28			28			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	307	666	0.461	309	0.9	10.124	B
C-AB	0	617	0.000	0	0.0	0.000	A
C-A	561			561			
A-B	0			0			
A-C	22			22			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	257	667	0.386	258	0.6	8.825	A
C-AB	0	618	0.000	0	0.0	0.000	A
C-A	470			470			
A-B	0			0			
A-C	19			19			

2035 Sensitivity Test, Saturday

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		4.22	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D31	2035 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	30	100.000
B		✓	346	100.000
C		✓	644	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	0	30
	B	0	0	346
	C	644	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	1
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.57	12.43	1.3	B
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	260	673	0.387	258	0.6	8.625	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	485			485			
A-B	0			0			
A-C	23			23			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	311	672	0.463	310	0.8	9.926	A
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	579			579			
A-B	0			0			
A-C	27			27			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	381	670	0.568	379	1.3	12.291	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	709			709			
A-B	0			0			
A-C	33			33			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	381	670	0.568	381	1.3	12.427	B
C-AB	0	621	0.000	0	0.0	0.000	A
C-A	709			709			
A-B	0			0			
A-C	33			33			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	311	672	0.463	313	0.9	10.070	B
C-AB	0	623	0.000	0	0.0	0.000	A
C-A	579			579			
A-B	0			0			
A-C	27			27			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	260	673	0.387	261	0.6	8.770	A
C-AB	0	624	0.000	0	0.0	0.000	A
C-A	485			485			
A-B	0			0			
A-C	23			23			

Junctions 9

ARCADY 9 - Roundabout Module

Filename: J3 - Commerical Street Roundabout.j9
Path: C:\Users\lloyd\Corun Associates Ltd\Communication site - Documents\23-00849 - Lidl, Land at Pontymister, Risca\Capacity Analysis\ARCADY
Report generation date: 18/10/2024 15:28:44

Summary of junction performance

	AM Peak					PM Peak					Saturday				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2024 Survey Flows														
Arm 1		0.2	2.53	0.17	A		0.3	2.63	0.21	A		0.3	2.69	0.22	A

Arm 2	D1	0.6	3.84	0.37	A	D2	1.1	5.01	0.53	A	D3	1.0	4.80	0.51	A
Arm 3		0.6	3.39	0.39	A		0.9	4.09	0.46	A		0.8	3.92	0.45	A
Arm 4		0.4	5.63	0.31	A		0.4	5.78	0.30	A		0.4	5.93	0.30	A
	2025 Without Development														
Arm 1	D4	0.2	2.54	0.18	A	D5	0.3	2.64	0.21	A	D6	0.3	2.70	0.22	A
Arm 2		0.6	3.85	0.37	A		1.1	5.04	0.53	A		1.0	4.83	0.51	A
Arm 3		0.6	3.40	0.39	A		0.9	4.11	0.46	A		0.8	3.94	0.45	A
Arm 4		0.5	5.66	0.31	A		0.4	5.81	0.30	A		0.4	5.97	0.30	A
	2030 Without Development														
Arm 1	D7	0.2	2.61	0.19	A	D8	0.3	2.72	0.22	A	D9	0.3	2.78	0.24	A
Arm 2		0.6	4.01	0.39	A		1.3	5.40	0.56	A		1.2	5.17	0.54	A
Arm 3		0.7	3.53	0.41	A		1.0	4.32	0.49	A		0.9	4.15	0.48	A
Arm 4		0.5	5.94	0.33	A		0.5	6.10	0.32	A		0.5	6.34	0.33	A
	2035 Without Development														
Arm 1	D10	0.2	2.66	0.19	A	D11	0.3	2.79	0.24	A	D12	0.3	2.86	0.25	A
Arm 2		0.7	4.13	0.40	A		1.4	5.71	0.58	A		1.3	5.47	0.56	A
Arm 3		0.7	3.60	0.43	A		1.0	4.52	0.51	A		1.0	4.35	0.50	A
Arm 4		0.5	6.14	0.35	A		0.5	6.38	0.34	A		0.5	6.65	0.35	A
	2025 With Development														
Arm 1	D13	0.2	2.59	0.18	A	D14	0.3	2.70	0.22	A	D15	0.3	2.78	0.23	A
Arm 2		0.6	3.91	0.38	A		1.2	5.32	0.56	A		1.2	5.12	0.54	A
Arm 3		0.7	3.48	0.41	A		0.9	4.27	0.48	A		0.9	4.13	0.48	A
Arm 4		0.5	5.83	0.32	A		0.5	6.03	0.32	A		0.5	6.28	0.32	A
	2030 With Development														
Arm 1	D16	0.2	2.66	0.19	A	D17	0.3	2.78	0.23	A	D18	0.3	2.86	0.25	A
Arm 2		0.7	4.07	0.40	A		1.4	5.72	0.59	A		1.3	5.51	0.57	A
Arm 3		0.7	3.58	0.42	A		1.0	4.49	0.50	A		1.0	4.36	0.50	A
Arm 4		0.5	6.11	0.35	A		0.5	6.34	0.34	A		0.5	6.69	0.35	A
	2035 With Development														
Arm 1	D19	0.2	2.72	0.20	A	D20	0.3	2.86	0.24	A	D21	0.3	2.95	0.26	A
Arm 2		0.7	4.20	0.41	A		1.5	6.07	0.61	A		1.4	5.85	0.59	A
Arm 3		0.8	3.69	0.44	A		1.1	4.70	0.52	A		1.1	4.57	0.52	A
Arm 4		0.6	6.35	0.36	A		0.5	6.65	0.36	A		0.6	7.04	0.37	A
	2025 Sensitivity Test														
Arm 1	D22	0.2	2.59	0.18	A	D23	0.3	2.71	0.22	A	D24	0.3	2.79	0.23	A
Arm 2		0.6	3.91	0.38	A		1.3	5.38	0.56	A		1.2	5.19	0.54	A
Arm 3		0.7	3.46	0.41	A		0.9	4.29	0.48	A		0.9	4.17	0.48	A
Arm 4		0.5	5.85	0.33	A		0.5	6.06	0.32	A		0.5	6.35	0.33	A
	2030 Sensitivity Test														
Arm 1	D25	0.2	2.67	0.19	A	D26	0.3	2.79	0.23	A	D27	0.3	2.89	0.25	A
Arm 2		0.7	4.08	0.40	A		1.4	5.79	0.59	A		1.3	5.58	0.57	A
Arm 3		0.7	3.60	0.43	A		1.0	4.52	0.51	A		1.0	4.40	0.51	A
Arm 4		0.5	6.15	0.35	A		0.5	6.38	0.34	A		0.5	6.77	0.35	A
	2035 Sensitivity Test														
Arm 1	D28	0.3	2.73	0.20	A	D29	0.3	2.87	0.24	A	D30	0.4	2.97	0.26	A
Arm 2		0.7	4.21	0.41	A		1.6	6.15	0.61	A		1.5	5.94	0.60	A
Arm 3		0.8	3.71	0.44	A		1.1	4.73	0.53	A		1.1	4.62	0.53	A
Arm 4		0.6	6.40	0.36	A		0.6	6.69	0.36	A		0.6	7.14	0.37	A

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

File summary

File Description

Title	
Location	
Site number	
Date	14/08/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LAPTOP-7PJKROJB\lloyd
Description	

Units

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

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM Peak	ONE HOUR	08:15	09:45	15
D2	2024 Survey Flows	PM Peak	ONE HOUR	15:15	16:45	15
D3	2024 Survey Flows	Saturday	ONE HOUR	12:15	13:45	15
D4	2025 Without Development	AM Peak	ONE HOUR	08:15	09:45	15
D5	2025 Without Development	PM Peak	ONE HOUR	15:15	16:45	15
D6	2025 Without Development	Saturday	ONE HOUR	12:15	13:45	15
D7	2030 Without Development	AM Peak	ONE HOUR	08:15	09:45	15
D8	2030 Without Development	PM Peak	ONE HOUR	15:15	16:45	15
D9	2030 Without Development	Saturday	ONE HOUR	12:15	13:45	15
D10	2035 Without Development	AM Peak	ONE HOUR	08:15	09:45	15
D11	2035 Without Development	PM Peak	ONE HOUR	15:15	16:45	15
D12	2035 Without Development	Saturday	ONE HOUR	12:15	13:45	15
D13	2025 With Development	AM Peak	ONE HOUR	08:15	09:45	15
D14	2025 With Development	PM Peak	ONE HOUR	15:15	16:45	15
D15	2025 With Development	Saturday	ONE HOUR	12:15	13:45	15
D16	2030 With Development	AM Peak	ONE HOUR	08:15	09:45	15
D17	2030 With Development	PM Peak	ONE HOUR	15:15	16:45	15
D18	2030 With Development	Saturday	ONE HOUR	12:15	13:45	15
D19	2035 With Development	AM Peak	ONE HOUR	08:15	09:45	15
D20	2035 With Development	PM Peak	ONE HOUR	15:15	16:45	15
D21	2035 With Development	Saturday	ONE HOUR	12:15	13:45	15
D22	2025 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15
D23	2025 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15
D24	2025 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15
D25	2030 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15
D26	2030 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15
D27	2030 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15
D28	2035 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15
D29	2035 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15
D30	2035 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Survey Flows, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.74	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	B4591 (E)	
2	B4591 (S)	
3	B4591 (W)	
4	Mill Street	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	4.22	13.39	17.0	38.2	39.6	36.1	
2	3.96	10.30	17.4	10.3	38.4	67.2	
3	4.55	10.68	18.6	7.8	38.6	55.9	
4	3.44	6.92	17.0	6.1	38.4	64.5	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.764	2302
2	0.596	1720
3	0.635	1901
4	0.493	1292

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	273	100.000
2		✓	493	100.000
3		✓	617	100.000
4		✓	261	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	72	190	11
	2	76	0	314	103
	3	179	379	0	59
	4	18	142	101	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	1	0	0
	4	17	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.17	2.53	0.2	A
2	0.37	3.84	0.6	A
3	0.39	3.39	0.6	A
4	0.31	5.63	0.4	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	206	467	1884	0.109	205	0.1	2.144	A
2	371	227	1543	0.241	370	0.3	3.066	A
3	465	143	1783	0.261	463	0.4	2.725	A
4	196	476	1036	0.190	196	0.2	4.277	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	245	559	1815	0.135	245	0.2	2.292	A
2	443	271	1516	0.292	443	0.4	3.353	A
3	555	171	1765	0.314	554	0.5	2.973	A
4	235	570	990	0.237	234	0.3	4.761	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	301	684	1722	0.175	300	0.2	2.532	A
2	543	332	1480	0.367	542	0.6	3.835	A
3	679	209	1741	0.390	679	0.6	3.388	A
4	287	697	927	0.310	287	0.4	5.620	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	301	685	1721	0.175	301	0.2	2.533	A
2	543	333	1480	0.367	543	0.6	3.840	A
3	679	209	1741	0.390	679	0.6	3.391	A
4	287	698	926	0.310	287	0.4	5.632	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	245	560	1814	0.135	246	0.2	2.296	A
2	443	272	1516	0.292	444	0.4	3.358	A
3	555	171	1765	0.314	555	0.5	2.979	A
4	235	571	989	0.237	235	0.3	4.777	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	206	469	1882	0.109	206	0.1	2.147	A
2	371	228	1542	0.241	372	0.3	3.077	A
3	465	143	1783	0.261	465	0.4	2.734	A
4	196	478	1035	0.190	197	0.2	4.295	A

2024 Survey Flows, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Survey Flows	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	331	100.000
2		✓	733	100.000
3		✓	687	100.000
4		✓	242	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	123	197	11
	2	120	0	426	187
	3	193	409	0	85
	4	24	153	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	5	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.21	2.63	0.3	A
2	0.53	5.01	1.1	A
3	0.46	4.09	0.9	A
4	0.30	5.78	0.4	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	249	470	1897	0.131	249	0.2	2.183	A
2	552	205	1583	0.349	550	0.5	3.475	A
3	517	238	1705	0.303	515	0.4	3.022	A
4	182	542	1018	0.179	181	0.2	4.300	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	298	563	1827	0.163	297	0.2	2.353	A
2	659	245	1559	0.423	658	0.7	3.992	A
3	618	286	1676	0.369	617	0.6	3.398	A
4	218	648	964	0.226	217	0.3	4.820	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	364	689	1732	0.210	364	0.3	2.632	A
2	807	300	1526	0.529	806	1.1	4.988	A
3	756	349	1636	0.462	755	0.9	4.081	A
4	266	794	890	0.299	266	0.4	5.764	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	364	690	1731	0.211	364	0.3	2.634	A
2	807	301	1526	0.529	807	1.1	5.009	A
3	756	350	1636	0.462	756	0.9	4.093	A
4	266	795	889	0.300	266	0.4	5.778	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	298	565	1826	0.163	298	0.2	2.356	A
2	659	246	1559	0.423	660	0.7	4.015	A
3	618	287	1675	0.369	619	0.6	3.409	A
4	218	650	963	0.226	218	0.3	4.838	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	249	473	1896	0.131	249	0.2	2.188	A
2	552	206	1583	0.349	553	0.5	3.495	A
3	517	240	1704	0.303	518	0.4	3.037	A
4	182	544	1016	0.179	182	0.2	4.320	A

2024 Survey Flows, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.25	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2024 Survey Flows	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	346	100.000
2		✓	702	100.000
3		✓	688	100.000
4		✓	237	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	145	191	10
	2	140	0	423	139
	3	194	437	0	57
	4	21	137	79	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	3	0
	2	0	0	1	0
	3	3	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.22	2.69	0.3	A
2	0.51	4.80	1.0	A
3	0.45	3.92	0.8	A
4	0.30	5.93	0.4	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	260	490	1894	0.138	260	0.2	2.203	A
2	529	210	1583	0.334	527	0.5	3.403	A
3	518	217	1738	0.298	516	0.4	2.943	A
4	178	579	1003	0.178	178	0.2	4.358	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	311	586	1821	0.171	311	0.2	2.383	A
2	631	252	1558	0.405	630	0.7	3.882	A
3	618	260	1711	0.361	618	0.6	3.290	A
4	213	692	946	0.225	213	0.3	4.909	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	381	718	1722	0.221	381	0.3	2.684	A
2	773	308	1524	0.507	772	1.0	4.778	A
3	758	318	1675	0.452	756	0.8	3.916	A
4	261	848	868	0.301	260	0.4	5.918	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	381	719	1721	0.221	381	0.3	2.686	A
2	773	308	1523	0.507	773	1.0	4.796	A
3	758	318	1675	0.452	757	0.8	3.925	A
4	261	849	868	0.301	261	0.4	5.933	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	311	588	1820	0.171	311	0.2	2.388	A
2	631	252	1557	0.405	632	0.7	3.897	A
3	618	260	1711	0.362	620	0.6	3.303	A
4	213	694	945	0.226	214	0.3	4.928	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	260	492	1892	0.138	261	0.2	2.207	A
2	529	211	1582	0.334	529	0.5	3.423	A
3	518	218	1737	0.298	519	0.4	2.954	A
4	178	581	1001	0.178	179	0.2	4.379	A

2025 Without Development, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.75	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2025 Without Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	274	100.000
2		✓	494	100.000
3		✓	620	100.000
4		✓	262	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	72	191	11
	2	76	0	315	103
	3	180	381	0	59
	4	18	143	101	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	1	0	0
	4	17	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.18	2.54	0.2	A
2	0.37	3.85	0.6	A
3	0.39	3.40	0.6	A
4	0.31	5.66	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	206	469	1882	0.110	206	0.1	2.147	A
2	372	227	1543	0.241	371	0.3	3.069	A
3	467	143	1783	0.262	465	0.4	2.730	A
4	197	478	1035	0.191	196	0.2	4.286	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	246	561	1813	0.136	246	0.2	2.297	A
2	444	272	1516	0.293	444	0.4	3.357	A
3	557	171	1765	0.316	557	0.5	2.980	A
4	236	572	989	0.238	235	0.3	4.775	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	302	687	1719	0.175	301	0.2	2.539	A
2	544	333	1480	0.368	543	0.6	3.842	A
3	683	209	1741	0.392	682	0.6	3.398	A
4	288	701	925	0.312	288	0.4	5.644	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	302	688	1719	0.176	302	0.2	2.540	A
2	544	334	1479	0.368	544	0.6	3.847	A
3	683	209	1741	0.392	683	0.6	3.401	A
4	288	701	925	0.312	288	0.5	5.656	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	246	563	1812	0.136	247	0.2	2.301	A
2	444	273	1516	0.293	445	0.4	3.363	A
3	557	171	1765	0.316	558	0.5	2.986	A
4	236	573	988	0.238	236	0.3	4.789	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	206	471	1881	0.110	206	0.1	2.151	A
2	372	228	1542	0.241	372	0.3	3.080	A
3	467	143	1783	0.262	467	0.4	2.739	A
4	197	480	1034	0.191	198	0.2	4.303	A

2025 Without Development, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2025 Without Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	333	100.000
2		✓	737	100.000
3		✓	690	100.000
4		✓	243	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	124	198	11
	2	121	0	428	188
	3	194	411	0	85
	4	24	154	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	5	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.21	2.64	0.3	A
2	0.53	5.04	1.1	A
3	0.46	4.11	0.9	A
4	0.30	5.81	0.4	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	251	472	1896	0.132	250	0.2	2.187	A
2	555	206	1583	0.351	553	0.5	3.486	A
3	519	240	1704	0.305	518	0.4	3.030	A
4	183	545	1016	0.180	182	0.2	4.312	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	299	566	1825	0.164	299	0.2	2.359	A
2	663	246	1559	0.425	662	0.7	4.011	A
3	620	287	1675	0.370	620	0.6	3.410	A
4	218	652	962	0.227	218	0.3	4.839	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	692	1729	0.212	366	0.3	2.641	A
2	811	301	1525	0.532	810	1.1	5.021	A
3	760	352	1635	0.465	759	0.9	4.103	A
4	268	798	888	0.301	267	0.4	5.794	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	694	1728	0.212	367	0.3	2.643	A
2	811	302	1525	0.532	811	1.1	5.044	A
3	760	352	1634	0.465	760	0.9	4.115	A
4	268	799	887	0.302	268	0.4	5.809	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	299	567	1824	0.164	300	0.2	2.361	A
2	663	247	1558	0.425	664	0.7	4.032	A
3	620	288	1674	0.371	621	0.6	3.424	A
4	218	654	961	0.227	219	0.3	4.856	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	251	475	1894	0.132	251	0.2	2.192	A
2	555	206	1583	0.351	556	0.5	3.510	A
3	519	241	1703	0.305	520	0.4	3.043	A
4	183	547	1015	0.180	183	0.2	4.330	A

2025 Without Development, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.28	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2025 Without Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	348	100.000
2		✓	706	100.000
3		✓	691	100.000
4		✓	238	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	146	192	10
	2	141	0	425	140
	3	195	439	0	57
	4	21	138	79	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	3	0
	2	0	0	1	0
	3	3	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.22	2.70	0.3	A
2	0.51	4.83	1.0	A
3	0.45	3.94	0.8	A
4	0.30	5.97	0.4	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	262	492	1893	0.138	261	0.2	2.205	A
2	532	211	1582	0.336	530	0.5	3.414	A
3	520	218	1737	0.299	519	0.4	2.950	A
4	179	581	1001	0.179	178	0.2	4.370	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	313	589	1819	0.172	313	0.2	2.389	A
2	635	252	1557	0.408	634	0.7	3.896	A
3	621	261	1710	0.363	621	0.6	3.302	A
4	214	696	944	0.227	214	0.3	4.927	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	383	721	1719	0.223	383	0.3	2.693	A
2	777	309	1523	0.510	776	1.0	4.810	A
3	761	320	1674	0.455	760	0.8	3.936	A
4	262	852	866	0.303	261	0.4	5.951	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	383	722	1718	0.223	383	0.3	2.695	A
2	777	309	1523	0.510	777	1.0	4.829	A
3	761	320	1673	0.455	761	0.8	3.945	A
4	262	853	865	0.303	262	0.4	5.966	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	313	591	1818	0.172	313	0.2	2.394	A
2	635	253	1557	0.408	636	0.7	3.915	A
3	621	262	1710	0.363	622	0.6	3.312	A
4	214	698	943	0.227	215	0.3	4.946	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	262	495	1891	0.139	262	0.2	2.212	A
2	532	212	1582	0.336	532	0.5	3.434	A
3	520	219	1736	0.300	521	0.4	2.964	A
4	179	584	1000	0.179	179	0.2	4.391	A

2030 Without Development, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2030 Without Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	288	100.000
2		✓	519	100.000
3		✓	649	100.000
4		✓	275	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	76	200	12
	2	80	0	330	109
	3	188	399	0	62
	4	19	150	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	1	0	0
	4	16	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.19	2.61	0.2	A
2	0.39	4.01	0.6	A
3	0.41	3.53	0.7	A
4	0.33	5.94	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	217	491	1866	0.116	216	0.1	2.183	A
2	391	239	1536	0.254	389	0.3	3.135	A
3	489	151	1778	0.275	487	0.4	2.787	A
4	207	501	1025	0.202	206	0.3	4.391	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	259	588	1793	0.144	259	0.2	2.345	A
2	467	286	1508	0.309	466	0.4	3.453	A
3	583	181	1759	0.332	583	0.5	3.059	A
4	247	599	976	0.253	247	0.3	4.935	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	317	720	1695	0.187	317	0.2	2.612	A
2	571	350	1470	0.389	571	0.6	4.000	A
3	715	221	1733	0.412	714	0.7	3.528	A
4	303	734	909	0.333	302	0.5	5.921	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	317	721	1694	0.187	317	0.2	2.614	A
2	571	350	1470	0.389	571	0.6	4.007	A
3	715	221	1733	0.412	715	0.7	3.534	A
4	303	734	909	0.333	303	0.5	5.937	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	259	590	1792	0.144	259	0.2	2.350	A
2	467	286	1508	0.309	467	0.5	3.462	A
3	583	181	1759	0.332	584	0.5	3.067	A
4	247	600	975	0.253	248	0.3	4.952	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	217	494	1864	0.116	217	0.1	2.185	A
2	391	240	1535	0.255	391	0.3	3.146	A
3	489	151	1777	0.275	489	0.4	2.797	A
4	207	503	1024	0.202	207	0.3	4.410	A

2030 Without Development, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.66	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2030 Without Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	348	100.000
2		✓	772	100.000
3		✓	723	100.000
4		✓	254	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	129	207	12
	2	126	0	449	197
	3	203	430	0	90
	4	25	161	68	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	4	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.22	2.72	0.3	A
2	0.56	5.40	1.3	A
3	0.49	4.32	1.0	A
4	0.32	6.10	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	262	494	1879	0.139	261	0.2	2.223	A
2	581	215	1577	0.369	579	0.6	3.599	A
3	544	251	1702	0.320	542	0.5	3.099	A
4	191	569	1004	0.190	190	0.2	4.418	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	313	592	1805	0.173	313	0.2	2.411	A
2	694	258	1552	0.447	693	0.8	4.189	A
3	650	301	1671	0.389	649	0.6	3.521	A
4	228	682	948	0.241	228	0.3	5.000	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	383	724	1705	0.225	383	0.3	2.722	A
2	850	316	1517	0.560	848	1.3	5.370	A
3	796	368	1629	0.489	795	0.9	4.308	A
4	280	834	871	0.321	279	0.5	6.079	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	383	726	1704	0.225	383	0.3	2.724	A
2	850	316	1516	0.561	850	1.3	5.401	A
3	796	369	1629	0.489	796	1.0	4.323	A
4	280	836	870	0.322	280	0.5	6.099	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	313	594	1804	0.173	313	0.2	2.414	A
2	694	258	1551	0.447	696	0.8	4.217	A
3	650	302	1670	0.389	651	0.6	3.538	A
4	228	684	947	0.241	229	0.3	5.020	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	262	497	1877	0.140	262	0.2	2.230	A
2	581	216	1577	0.369	582	0.6	3.625	A
3	544	253	1701	0.320	545	0.5	3.117	A
4	191	572	1003	0.191	192	0.2	4.438	A

2030 Without Development, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.53	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D9	2030 Without Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	366	100.000
2		✓	742	100.000
3		✓	727	100.000
4		✓	251	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	153	202	11
	2	148	0	447	147
	3	205	462	0	60
	4	22	145	84	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.24	2.78	0.3	A
2	0.54	5.17	1.2	A
3	0.48	4.15	0.9	A
4	0.33	6.34	0.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	276	518	1883	0.146	275	0.2	2.237	A
2	559	223	1576	0.354	556	0.5	3.524	A
3	547	229	1735	0.315	545	0.5	3.023	A
4	189	611	987	0.191	188	0.2	4.503	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	329	620	1805	0.182	329	0.2	2.438	A
2	667	267	1550	0.430	666	0.8	4.072	A
3	654	275	1707	0.383	653	0.6	3.415	A
4	226	732	927	0.243	225	0.3	5.129	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	403	759	1699	0.237	403	0.3	2.776	A
2	817	327	1514	0.540	815	1.2	5.142	A
3	800	336	1668	0.480	799	0.9	4.138	A
4	276	896	845	0.327	276	0.5	6.315	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	403	761	1698	0.237	403	0.3	2.778	A
2	817	327	1513	0.540	817	1.2	5.168	A
3	800	337	1668	0.480	800	0.9	4.151	A
4	276	897	844	0.327	276	0.5	6.336	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	329	623	1804	0.182	329	0.2	2.443	A
2	667	267	1549	0.431	669	0.8	4.095	A
3	654	276	1706	0.383	655	0.6	3.427	A
4	226	734	926	0.244	226	0.3	5.150	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	276	521	1881	0.146	276	0.2	2.244	A
2	559	224	1575	0.355	559	0.6	3.548	A
3	547	231	1734	0.316	548	0.5	3.036	A
4	189	614	986	0.192	189	0.2	4.522	A

2035 Without Development, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.01	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D10	2035 Without Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	297	100.000
2		✓	537	100.000
3		✓	672	100.000
4		✓	284	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	78	207	12
	2	83	0	342	112
	3	195	413	0	64
	4	19	155	110	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	0	0	0
	4	16	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.19	2.66	0.2	A
2	0.40	4.13	0.7	A
3	0.43	3.60	0.7	A
4	0.35	6.14	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	224	508	1855	0.121	223	0.1	2.206	A
2	404	247	1531	0.264	403	0.4	3.187	A
3	506	155	1786	0.283	504	0.4	2.805	A
4	214	519	1018	0.210	213	0.3	4.467	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	267	609	1781	0.150	267	0.2	2.378	A
2	483	296	1502	0.321	482	0.5	3.528	A
3	604	186	1766	0.342	604	0.5	3.095	A
4	255	621	967	0.264	255	0.4	5.050	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	327	745	1679	0.195	327	0.2	2.661	A
2	591	362	1463	0.404	590	0.7	4.124	A
3	740	228	1739	0.425	739	0.7	3.595	A
4	313	760	899	0.348	312	0.5	6.126	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	327	746	1678	0.195	327	0.2	2.663	A
2	591	362	1462	0.404	591	0.7	4.132	A
3	740	228	1739	0.425	740	0.7	3.601	A
4	313	761	898	0.348	313	0.5	6.145	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	267	611	1779	0.150	267	0.2	2.381	A
2	483	296	1502	0.321	484	0.5	3.540	A
3	604	186	1766	0.342	605	0.5	3.105	A
4	255	622	967	0.264	256	0.4	5.071	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	224	511	1853	0.121	224	0.1	2.209	A
2	404	248	1530	0.264	405	0.4	3.199	A
3	506	156	1785	0.283	506	0.4	2.817	A
4	214	521	1017	0.210	214	0.3	4.487	A

2035 Without Development, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.89	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D11	2035 Without Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	360	100.000
2		✓	799	100.000
3		✓	748	100.000
4		✓	264	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	134	214	12
	2	131	0	464	204
	3	210	445	0	93
	4	26	167	71	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	4	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.24	2.79	0.3	A
2	0.58	5.71	1.4	A
3	0.51	4.52	1.0	A
4	0.34	6.38	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	271	512	1866	0.145	270	0.2	2.255	A
2	602	223	1573	0.383	599	0.6	3.688	A
3	563	260	1696	0.332	561	0.5	3.166	A
4	199	590	994	0.200	198	0.2	4.515	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	613	1789	0.181	323	0.2	2.455	A
2	718	267	1546	0.465	717	0.9	4.338	A
3	672	312	1664	0.404	672	0.7	3.625	A
4	237	706	935	0.254	237	0.3	5.152	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	396	751	1685	0.235	396	0.3	2.792	A
2	880	327	1510	0.583	878	1.4	5.675	A
3	824	381	1621	0.508	822	1.0	4.498	A
4	291	864	856	0.340	290	0.5	6.356	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	396	752	1684	0.235	396	0.3	2.795	A
2	880	327	1510	0.583	880	1.4	5.713	A
3	824	382	1620	0.508	824	1.0	4.516	A
4	291	865	855	0.340	291	0.5	6.380	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	615	1788	0.181	324	0.2	2.459	A
2	718	267	1546	0.465	720	0.9	4.371	A
3	672	313	1664	0.404	674	0.7	3.641	A
4	237	708	934	0.254	238	0.3	5.175	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	271	515	1864	0.145	271	0.2	2.260	A
2	602	224	1572	0.383	603	0.6	3.718	A
3	563	262	1695	0.332	564	0.5	3.182	A
4	199	593	993	0.200	199	0.3	4.540	A

2035 Without Development, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.76	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D12	2035 Without Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	379	100.000
2		✓	771	100.000
3		✓	755	100.000
4		✓	260	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	159	209	11
	2	154	0	464	153
	3	213	479	0	63
	4	23	150	87	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.25	2.86	0.3	A
2	0.56	5.47	1.3	A
3	0.50	4.35	1.0	A
4	0.35	6.65	0.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	285	537	1869	0.153	285	0.2	2.271	A
2	580	230	1571	0.369	578	0.6	3.617	A
3	568	238	1729	0.329	566	0.5	3.090	A
4	196	635	975	0.201	195	0.2	4.606	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	341	643	1788	0.191	340	0.2	2.486	A
2	693	276	1544	0.449	692	0.8	4.221	A
3	679	286	1700	0.399	678	0.7	3.522	A
4	234	760	913	0.256	233	0.3	5.294	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	417	787	1679	0.249	417	0.3	2.853	A
2	849	338	1507	0.563	847	1.3	5.439	A
3	831	349	1660	0.501	830	1.0	4.331	A
4	286	930	828	0.346	286	0.5	6.626	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	417	788	1678	0.249	417	0.3	2.855	A
2	849	338	1507	0.563	849	1.3	5.471	A
3	831	350	1659	0.501	831	1.0	4.347	A
4	286	931	827	0.346	286	0.5	6.651	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	341	645	1786	0.191	341	0.2	2.492	A
2	693	276	1544	0.449	695	0.8	4.251	A
3	679	287	1699	0.399	680	0.7	3.536	A
4	234	762	912	0.256	234	0.3	5.321	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	285	540	1867	0.153	286	0.2	2.278	A
2	580	231	1571	0.370	581	0.6	3.643	A
3	568	240	1728	0.329	569	0.5	3.106	A
4	196	638	974	0.201	196	0.3	4.632	A

2025 With Development, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D13	2025 With Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	278	100.000
2		✓	507	100.000
3		✓	640	100.000
4		✓	269	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	76	191	11
	2	78	0	323	106
	3	180	401	0	59
	4	18	150	101	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	1	0	0
	4	17	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.18	2.59	0.2	A
2	0.38	3.91	0.6	A
3	0.41	3.48	0.7	A
4	0.32	5.83	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	209	489	1867	0.112	209	0.1	2.171	A
2	382	227	1543	0.247	380	0.3	3.095	A
3	482	146	1781	0.271	480	0.4	2.766	A
4	203	495	1028	0.197	202	0.2	4.351	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	250	586	1795	0.139	250	0.2	2.329	A
2	456	272	1516	0.301	455	0.4	3.394	A
3	575	175	1762	0.326	575	0.5	3.031	A
4	242	592	979	0.247	241	0.3	4.876	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	306	717	1697	0.180	306	0.2	2.587	A
2	558	333	1480	0.377	558	0.6	3.902	A
3	705	214	1738	0.406	704	0.7	3.481	A
4	296	725	914	0.324	296	0.5	5.817	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	306	718	1696	0.180	306	0.2	2.589	A
2	558	334	1479	0.377	558	0.6	3.907	A
3	705	215	1737	0.406	705	0.7	3.485	A
4	296	726	913	0.324	296	0.5	5.833	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	250	587	1794	0.139	250	0.2	2.334	A
2	456	273	1516	0.301	456	0.4	3.400	A
3	575	176	1762	0.326	576	0.5	3.036	A
4	242	593	979	0.247	242	0.3	4.894	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	209	491	1865	0.112	209	0.1	2.174	A
2	382	228	1542	0.248	382	0.3	3.104	A
3	482	147	1780	0.271	482	0.4	2.775	A
4	203	497	1027	0.197	203	0.2	4.371	A

2025 With Development, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.61	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D14	2025 With Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	338	100.000
2		✓	771	100.000
3		✓	709	100.000
4		✓	251	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	129	198	11
	2	127	0	447	197
	3	194	430	0	85
	4	24	162	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	5	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.22	2.70	0.3	A
2	0.56	5.32	1.2	A
3	0.48	4.27	0.9	A
4	0.32	6.03	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	254	493	1881	0.135	254	0.2	2.213	A
2	580	206	1583	0.367	578	0.6	3.575	A
3	534	251	1697	0.314	532	0.5	3.089	A
4	189	563	1007	0.188	188	0.2	4.393	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	304	590	1807	0.168	304	0.2	2.394	A
2	693	246	1559	0.445	692	0.8	4.151	A
3	637	301	1667	0.382	637	0.6	3.493	A
4	226	674	950	0.237	225	0.3	4.962	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	372	722	1707	0.218	372	0.3	2.696	A
2	849	301	1525	0.557	847	1.2	5.295	A
3	781	368	1625	0.480	779	0.9	4.251	A
4	276	826	874	0.316	276	0.5	6.011	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	372	723	1706	0.218	372	0.3	2.698	A
2	849	302	1525	0.557	849	1.2	5.323	A
3	781	369	1624	0.481	781	0.9	4.265	A
4	276	827	873	0.316	276	0.5	6.029	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	304	592	1806	0.168	304	0.2	2.397	A
2	693	247	1558	0.445	695	0.8	4.177	A
3	637	302	1666	0.383	639	0.6	3.509	A
4	226	676	949	0.238	226	0.3	4.981	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	254	495	1879	0.135	255	0.2	2.216	A
2	580	206	1583	0.367	581	0.6	3.598	A
3	534	253	1697	0.315	534	0.5	3.098	A
4	189	566	1005	0.188	189	0.2	4.414	A

2025 With Development, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.51	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D15	2025 With Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	356	100.000
2		✓	745	100.000
3		✓	718	100.000
4		✓	248	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	154	192	10
	2	149	0	448	148
	3	195	466	0	57
	4	21	148	79	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	3	0
	2	0	0	1	0
	3	3	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.23	2.78	0.3	A
2	0.54	5.12	1.2	A
3	0.48	4.13	0.9	A
4	0.32	6.28	0.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	268	520	1872	0.143	267	0.2	2.241	A
2	561	211	1582	0.354	559	0.5	3.509	A
3	541	230	1730	0.312	539	0.5	3.019	A
4	187	608	988	0.189	186	0.2	4.482	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	320	622	1795	0.178	320	0.2	2.440	A
2	670	252	1557	0.430	669	0.7	4.049	A
3	645	276	1701	0.379	645	0.6	3.405	A
4	223	727	928	0.240	223	0.3	5.099	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	392	762	1689	0.232	392	0.3	2.774	A
2	820	309	1523	0.539	819	1.2	5.100	A
3	791	337	1663	0.475	789	0.9	4.116	A
4	273	890	847	0.322	272	0.5	6.260	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	392	763	1688	0.232	392	0.3	2.776	A
2	820	309	1523	0.539	820	1.2	5.124	A
3	791	338	1662	0.476	791	0.9	4.128	A
4	273	892	846	0.323	273	0.5	6.280	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	320	624	1793	0.178	320	0.2	2.444	A
2	670	253	1557	0.430	671	0.8	4.072	A
3	645	277	1701	0.379	647	0.6	3.417	A
4	223	730	927	0.240	224	0.3	5.119	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	268	522	1870	0.143	268	0.2	2.247	A
2	561	212	1582	0.355	562	0.6	3.531	A
3	541	231	1729	0.313	541	0.5	3.033	A
4	187	611	987	0.189	187	0.2	4.505	A

2030 With Development, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.98	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D16	2030 With Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	292	100.000
2		✓	532	100.000
3		✓	669	100.000
4		✓	282	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	80	200	12
	2	82	0	338	112
	3	188	419	0	62
	4	19	157	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	0	0	0
	4	16	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.19	2.66	0.2	A
2	0.40	4.07	0.7	A
3	0.42	3.58	0.7	A
4	0.35	6.11	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	220	511	1853	0.119	219	0.1	2.204	A
2	401	239	1536	0.261	399	0.4	3.162	A
3	504	155	1787	0.282	502	0.4	2.798	A
4	212	517	1019	0.208	211	0.3	4.453	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	263	612	1778	0.148	262	0.2	2.375	A
2	478	286	1508	0.317	478	0.5	3.492	A
3	601	185	1767	0.340	601	0.5	3.085	A
4	254	619	968	0.262	253	0.4	5.030	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	321	750	1676	0.192	321	0.2	2.657	A
2	586	350	1470	0.398	585	0.7	4.064	A
3	737	227	1741	0.423	736	0.7	3.579	A
4	310	758	900	0.345	310	0.5	6.092	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	321	751	1675	0.192	321	0.2	2.659	A
2	586	350	1470	0.399	586	0.7	4.072	A
3	737	227	1740	0.423	737	0.7	3.585	A
4	310	759	900	0.345	310	0.5	6.109	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	263	614	1776	0.148	263	0.2	2.378	A
2	478	286	1508	0.317	479	0.5	3.504	A
3	601	185	1767	0.340	602	0.5	3.092	A
4	254	620	968	0.262	254	0.4	5.050	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	220	514	1851	0.119	220	0.1	2.209	A
2	401	240	1535	0.261	401	0.4	3.176	A
3	504	155	1786	0.282	504	0.4	2.810	A
4	212	519	1018	0.209	213	0.3	4.474	A

2030 With Development, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.89	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D17	2030 With Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	353	100.000
2		✓	806	100.000
3		✓	742	100.000
4		✓	262	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	134	207	12
	2	132	0	468	206
	3	203	449	0	90
	4	25	169	68	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	4	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.23	2.78	0.3	A
2	0.59	5.72	1.4	A
3	0.50	4.49	1.0	A
4	0.34	6.34	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	266	514	1864	0.143	265	0.2	2.249	A
2	607	215	1577	0.385	604	0.6	3.691	A
3	559	262	1695	0.330	557	0.5	3.157	A
4	197	588	995	0.198	196	0.2	4.502	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	317	616	1787	0.178	317	0.2	2.448	A
2	725	258	1552	0.467	724	0.9	4.342	A
3	667	314	1663	0.401	666	0.7	3.611	A
4	236	704	936	0.252	235	0.3	5.132	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	389	754	1683	0.231	388	0.3	2.781	A
2	887	316	1517	0.585	885	1.4	5.683	A
3	817	384	1619	0.505	816	1.0	4.473	A
4	288	862	857	0.337	288	0.5	6.318	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	389	755	1682	0.231	389	0.3	2.783	A
2	887	316	1516	0.585	887	1.4	5.723	A
3	817	385	1619	0.505	817	1.0	4.490	A
4	288	863	856	0.337	288	0.5	6.342	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	317	618	1786	0.178	318	0.2	2.452	A
2	725	258	1551	0.467	727	0.9	4.378	A
3	667	316	1662	0.401	668	0.7	3.629	A
4	236	706	935	0.252	236	0.3	5.156	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	266	517	1862	0.143	266	0.2	2.255	A
2	607	216	1577	0.385	608	0.6	3.721	A
3	559	264	1694	0.330	559	0.5	3.173	A
4	197	591	993	0.199	198	0.2	4.527	A

2030 With Development, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D18	2030 With Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	374	100.000
2		✓	781	100.000
3		✓	754	100.000
4		✓	261	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	161	202	11
	2	156	0	470	155
	3	205	489	0	60
	4	22	155	84	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.25	2.86	0.3	A
2	0.57	5.51	1.3	A
3	0.50	4.36	1.0	A
4	0.35	6.69	0.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	282	546	1862	0.151	281	0.2	2.275	A
2	588	223	1576	0.373	586	0.6	3.625	A
3	568	241	1728	0.329	566	0.5	3.093	A
4	196	638	974	0.202	195	0.3	4.619	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	654	1780	0.189	336	0.2	2.492	A
2	702	267	1550	0.453	701	0.8	4.239	A
3	678	289	1698	0.399	677	0.7	3.526	A
4	235	763	911	0.257	234	0.3	5.315	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	412	800	1669	0.247	411	0.3	2.862	A
2	860	327	1514	0.568	858	1.3	5.475	A
3	830	354	1657	0.501	829	1.0	4.339	A
4	287	934	826	0.348	287	0.5	6.663	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	412	802	1668	0.247	412	0.3	2.865	A
2	860	327	1513	0.568	860	1.3	5.508	A
3	830	355	1657	0.501	830	1.0	4.355	A
4	287	936	825	0.348	287	0.5	6.691	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	656	1779	0.189	337	0.2	2.496	A
2	702	267	1549	0.453	704	0.8	4.270	A
3	678	290	1697	0.399	679	0.7	3.543	A
4	235	766	910	0.258	235	0.4	5.340	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	282	549	1860	0.151	282	0.2	2.280	A
2	588	224	1575	0.373	589	0.6	3.654	A
3	568	243	1727	0.329	568	0.5	3.109	A
4	196	641	972	0.202	197	0.3	4.643	A

2035 With Development, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D19	2035 With Development	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	301	100.000
2		✓	550	100.000
3		✓	692	100.000
4		✓	291	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	82	207	12
	2	85	0	350	115
	3	195	433	0	64
	4	19	162	110	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	0	0	0
	4	16	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.20	2.72	0.2	A
2	0.41	4.20	0.7	A
3	0.44	3.69	0.8	A
4	0.36	6.35	0.6	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	529	1840	0.123	226	0.1	2.231	A
2	414	247	1531	0.270	413	0.4	3.214	A
3	521	159	1784	0.292	519	0.4	2.843	A
4	219	535	1010	0.217	218	0.3	4.538	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	271	633	1762	0.154	270	0.2	2.412	A
2	494	295	1502	0.329	494	0.5	3.569	A
3	622	190	1764	0.353	622	0.5	3.150	A
4	262	640	958	0.273	261	0.4	5.163	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	331	775	1657	0.200	331	0.2	2.714	A
2	606	362	1463	0.414	605	0.7	4.191	A
3	762	233	1736	0.439	761	0.8	3.687	A
4	320	784	887	0.361	320	0.6	6.333	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	331	776	1656	0.200	331	0.2	2.716	A
2	606	362	1462	0.414	606	0.7	4.201	A
3	762	233	1736	0.439	762	0.8	3.694	A
4	320	785	887	0.361	320	0.6	6.353	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	271	635	1761	0.154	271	0.2	2.417	A
2	494	296	1502	0.329	495	0.5	3.582	A
3	622	191	1763	0.353	623	0.5	3.158	A
4	262	642	957	0.273	262	0.4	5.184	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	531	1838	0.123	227	0.1	2.236	A
2	414	248	1530	0.271	415	0.4	3.227	A
3	521	160	1783	0.292	522	0.4	2.856	A
4	219	537	1009	0.217	219	0.3	4.561	A

2035 With Development, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	5.14	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D20	2035 With Development	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	365	100.000
2		✓	833	100.000
3		✓	767	100.000
4		✓	272	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	139	214	12
	2	137	0	483	213
	3	210	464	0	93
	4	26	175	71	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	4	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.24	2.86	0.3	A
2	0.61	6.07	1.5	A
3	0.52	4.70	1.1	A
4	0.36	6.65	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	275	532	1851	0.148	274	0.2	2.282	A
2	627	223	1573	0.399	624	0.7	3.785	A
3	577	271	1689	0.342	575	0.5	3.226	A
4	205	608	985	0.208	204	0.3	4.604	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	328	637	1771	0.185	328	0.2	2.494	A
2	749	267	1546	0.484	748	0.9	4.502	A
3	690	325	1656	0.416	689	0.7	3.717	A
4	245	728	924	0.265	244	0.4	5.292	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	402	780	1663	0.242	402	0.3	2.854	A
2	917	327	1510	0.607	915	1.5	6.024	A
3	844	398	1611	0.524	843	1.1	4.678	A
4	299	891	842	0.356	299	0.5	6.618	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	402	782	1662	0.242	402	0.3	2.856	A
2	917	327	1510	0.608	917	1.5	6.074	A
3	844	399	1610	0.524	844	1.1	4.700	A
4	299	893	841	0.356	299	0.5	6.646	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	328	640	1769	0.185	328	0.2	2.498	A
2	749	267	1546	0.484	751	0.9	4.543	A
3	690	326	1655	0.417	691	0.7	3.741	A
4	245	731	923	0.265	245	0.4	5.320	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	275	535	1848	0.149	275	0.2	2.287	A
2	627	224	1572	0.399	628	0.7	3.820	A
3	577	273	1688	0.342	578	0.5	3.244	A
4	205	611	983	0.208	205	0.3	4.631	A

2035 With Development, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	5.05	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D21	2035 With Development	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	387	100.000
2		✓	810	100.000
3		✓	782	100.000
4		✓	270	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	167	209	11
	2	162	0	487	161
	3	213	506	0	63
	4	23	160	87	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.26	2.95	0.3	A
2	0.59	5.85	1.4	A
3	0.52	4.57	1.1	A
4	0.37	7.04	0.6	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	291	565	1848	0.158	291	0.2	2.310	A
2	610	230	1571	0.388	607	0.6	3.725	A
3	589	250	1722	0.342	587	0.5	3.166	A
4	203	661	962	0.211	202	0.3	4.729	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	348	676	1763	0.197	348	0.2	2.542	A
2	728	276	1544	0.472	727	0.9	4.400	A
3	703	300	1691	0.416	702	0.7	3.641	A
4	243	791	897	0.270	242	0.4	5.491	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	426	827	1648	0.259	426	0.3	2.945	A
2	892	338	1507	0.592	890	1.4	5.809	A
3	861	367	1649	0.522	859	1.1	4.552	A
4	297	968	809	0.367	296	0.6	7.009	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	426	829	1647	0.259	426	0.3	2.948	A
2	892	338	1507	0.592	892	1.4	5.853	A
3	861	368	1648	0.522	861	1.1	4.572	A
4	297	970	808	0.368	297	0.6	7.043	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	348	679	1761	0.198	348	0.2	2.549	A
2	728	276	1544	0.472	730	0.9	4.437	A
3	703	301	1690	0.416	704	0.7	3.657	A
4	243	794	896	0.271	244	0.4	5.522	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	291	568	1846	0.158	292	0.2	2.316	A
2	610	231	1571	0.388	611	0.6	3.753	A
3	589	252	1721	0.342	590	0.5	3.183	A
4	203	664	961	0.212	204	0.3	4.759	A

2025 Sensitivity Test, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D22	2025 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	278	100.000
2		✓	508	100.000
3		✓	644	100.000
4		✓	271	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	76	191	11
	2	78	0	324	106
	3	180	405	0	59
	4	18	152	101	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	0	0	0
	4	17	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.18	2.59	0.2	A
2	0.38	3.91	0.6	A
3	0.41	3.46	0.7	A
4	0.33	5.85	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	209	494	1866	0.112	209	0.1	2.172	A
2	382	227	1543	0.248	381	0.3	3.097	A
3	485	146	1792	0.271	483	0.4	2.749	A
4	204	498	1028	0.199	203	0.2	4.359	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	250	591	1794	0.139	250	0.2	2.331	A
2	457	272	1516	0.301	456	0.4	3.397	A
3	579	175	1774	0.326	578	0.5	3.012	A
4	244	596	980	0.249	243	0.3	4.887	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	306	723	1695	0.181	306	0.2	2.590	A
2	559	333	1480	0.378	559	0.6	3.906	A
3	709	214	1748	0.406	708	0.7	3.460	A
4	298	729	914	0.327	298	0.5	5.837	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	306	724	1695	0.181	306	0.2	2.592	A
2	559	334	1479	0.378	559	0.6	3.912	A
3	709	215	1748	0.406	709	0.7	3.463	A
4	298	730	913	0.327	298	0.5	5.852	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	250	593	1792	0.139	250	0.2	2.336	A
2	457	273	1516	0.301	457	0.4	3.403	A
3	579	176	1773	0.326	580	0.5	3.019	A
4	244	597	979	0.249	244	0.3	4.903	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	209	496	1864	0.112	209	0.1	2.177	A
2	382	228	1542	0.248	383	0.3	3.108	A
3	485	147	1792	0.271	485	0.4	2.758	A
4	204	500	1027	0.199	204	0.2	4.380	A

2025 Sensitivity Test, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.65	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D23	2025 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	339	100.000
2		✓	778	100.000
3		✓	712	100.000
4		✓	252	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	130	198	11
	2	128	0	451	199
	3	194	433	0	85
	4	24	163	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	5	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.22	2.71	0.3	A
2	0.56	5.38	1.3	A
3	0.48	4.29	0.9	A
4	0.32	6.06	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	255	496	1879	0.136	255	0.2	2.217	A
2	586	206	1583	0.370	583	0.6	3.594	A
3	536	253	1696	0.316	534	0.5	3.092	A
4	190	566	1005	0.189	189	0.2	4.405	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	305	594	1804	0.169	305	0.2	2.400	A
2	699	246	1559	0.449	699	0.8	4.181	A
3	640	303	1665	0.384	639	0.6	3.508	A
4	227	678	949	0.239	226	0.3	4.980	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	373	726	1704	0.219	373	0.3	2.705	A
2	857	301	1525	0.562	855	1.3	5.354	A
3	784	371	1623	0.483	783	0.9	4.278	A
4	277	830	872	0.318	277	0.5	6.044	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	373	728	1703	0.219	373	0.3	2.707	A
2	857	302	1525	0.562	857	1.3	5.385	A
3	784	372	1622	0.483	784	0.9	4.292	A
4	277	831	871	0.319	277	0.5	6.063	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	305	595	1803	0.169	305	0.2	2.403	A
2	699	247	1558	0.449	701	0.8	4.210	A
3	640	305	1664	0.385	641	0.6	3.524	A
4	227	680	948	0.239	227	0.3	5.000	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	255	498	1877	0.136	255	0.2	2.220	A
2	586	206	1583	0.370	587	0.6	3.620	A
3	536	255	1695	0.316	537	0.5	3.108	A
4	190	569	1004	0.189	190	0.2	4.425	A

2025 Sensitivity Test, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.56	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D24	2025 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	358	100.000
2		✓	753	100.000
3		✓	724	100.000
4		✓	250	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	156	192	10
	2	151	0	453	149
	3	195	472	0	57
	4	21	150	79	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	3	0
	2	0	0	1	0
	3	3	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.23	2.79	0.3	A
2	0.54	5.19	1.2	A
3	0.48	4.17	0.9	A
4	0.33	6.35	0.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	270	526	1868	0.144	269	0.2	2.250	A
2	567	211	1582	0.358	565	0.6	3.530	A
3	545	232	1729	0.315	543	0.5	3.034	A
4	188	614	985	0.191	187	0.2	4.508	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	322	629	1789	0.180	322	0.2	2.452	A
2	677	252	1557	0.435	676	0.8	4.083	A
3	651	278	1700	0.383	650	0.6	3.428	A
4	225	735	925	0.243	224	0.3	5.138	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	394	770	1683	0.234	394	0.3	2.793	A
2	829	309	1523	0.544	827	1.2	5.163	A
3	797	341	1661	0.480	796	0.9	4.156	A
4	275	899	843	0.327	275	0.5	6.332	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	394	772	1682	0.234	394	0.3	2.795	A
2	829	309	1523	0.544	829	1.2	5.189	A
3	797	341	1660	0.480	797	0.9	4.169	A
4	275	901	842	0.327	275	0.5	6.353	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	322	632	1788	0.180	322	0.2	2.458	A
2	677	253	1557	0.435	679	0.8	4.106	A
3	651	279	1699	0.383	652	0.6	3.443	A
4	225	737	924	0.243	225	0.3	5.161	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	270	528	1866	0.144	270	0.2	2.255	A
2	567	212	1582	0.358	568	0.6	3.552	A
3	545	234	1728	0.315	546	0.5	3.048	A
4	188	617	984	0.191	189	0.2	4.528	A

2030 Sensitivity Test, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	3.99	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D25	2030 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	292	100.000
2		✓	533	100.000
3		✓	673	100.000
4		✓	284	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	80	200	12
	2	82	0	339	112
	3	188	423	0	62
	4	19	159	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	0	0	0
	4	16	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.19	2.67	0.2	A
2	0.40	4.08	0.7	A
3	0.43	3.60	0.7	A
4	0.35	6.15	0.5	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	220	516	1849	0.119	219	0.1	2.208	A
2	401	239	1536	0.261	400	0.4	3.164	A
3	507	155	1787	0.284	505	0.4	2.805	A
4	214	520	1017	0.210	213	0.3	4.469	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	263	618	1774	0.148	262	0.2	2.381	A
2	479	286	1508	0.318	479	0.5	3.495	A
3	605	185	1767	0.342	605	0.5	3.094	A
4	255	622	967	0.264	255	0.4	5.055	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	321	756	1671	0.192	321	0.2	2.667	A
2	587	350	1470	0.399	586	0.7	4.069	A
3	741	227	1741	0.426	740	0.7	3.594	A
4	313	762	898	0.348	312	0.5	6.134	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	321	757	1670	0.193	321	0.2	2.668	A
2	587	350	1470	0.399	587	0.7	4.077	A
3	741	227	1741	0.426	741	0.7	3.600	A
4	313	763	898	0.348	313	0.5	6.153	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	263	620	1772	0.148	263	0.2	2.386	A
2	479	286	1508	0.318	480	0.5	3.504	A
3	605	185	1767	0.342	606	0.5	3.102	A
4	255	624	966	0.264	256	0.4	5.073	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	220	519	1847	0.119	220	0.1	2.212	A
2	401	240	1535	0.261	402	0.4	3.178	A
3	507	155	1786	0.284	507	0.4	2.817	A
4	214	522	1016	0.210	214	0.3	4.490	A

2030 Sensitivity Test, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D26	2030 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	354	100.000
2		✓	813	100.000
3		✓	745	100.000
4		✓	263	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	135	207	12
	2	133	0	472	208
	3	203	452	0	90
	4	25	170	68	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	4	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.23	2.79	0.3	A
2	0.59	5.79	1.4	A
3	0.51	4.52	1.0	A
4	0.34	6.38	0.5	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	267	517	1862	0.143	266	0.2	2.254	A
2	612	215	1577	0.388	610	0.6	3.711	A
3	561	265	1694	0.331	559	0.5	3.167	A
4	198	591	993	0.199	197	0.2	4.515	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	318	620	1785	0.178	318	0.2	2.454	A
2	731	258	1552	0.471	730	0.9	4.376	A
3	670	317	1661	0.403	669	0.7	3.627	A
4	236	708	935	0.253	236	0.3	5.151	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	390	758	1680	0.232	389	0.3	2.790	A
2	895	316	1517	0.590	893	1.4	5.753	A
3	820	388	1617	0.507	819	1.0	4.503	A
4	290	866	855	0.339	289	0.5	6.355	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	390	760	1679	0.232	390	0.3	2.792	A
2	895	316	1516	0.590	895	1.4	5.794	A
3	820	389	1617	0.507	820	1.0	4.520	A
4	290	868	854	0.339	290	0.5	6.379	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	318	622	1783	0.178	319	0.2	2.458	A
2	731	258	1551	0.471	733	0.9	4.410	A
3	670	318	1660	0.403	671	0.7	3.646	A
4	236	710	933	0.253	237	0.3	5.176	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	267	520	1860	0.143	267	0.2	2.259	A
2	612	216	1577	0.388	613	0.6	3.742	A
3	561	266	1693	0.331	562	0.5	3.183	A
4	198	594	992	0.200	198	0.3	4.538	A

2030 Sensitivity Test, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.85	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D27	2030 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	376	100.000
2		✓	789	100.000
3		✓	760	100.000
4		✓	263	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	163	202	11
	2	158	0	475	156
	3	205	495	0	60
	4	22	157	84	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.25	2.89	0.3	A
2	0.57	5.58	1.3	A
3	0.51	4.40	1.0	A
4	0.35	6.77	0.5	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	283	552	1858	0.152	282	0.2	2.283	A
2	594	223	1576	0.377	592	0.6	3.648	A
3	572	244	1726	0.331	570	0.5	3.109	A
4	198	644	971	0.204	197	0.3	4.646	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	338	661	1775	0.190	338	0.2	2.504	A
2	709	267	1550	0.458	708	0.8	4.275	A
3	683	292	1696	0.403	683	0.7	3.551	A
4	236	770	908	0.260	236	0.3	5.357	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	414	809	1662	0.249	414	0.3	2.882	A
2	869	327	1514	0.574	867	1.3	5.548	A
3	837	357	1655	0.506	835	1.0	4.385	A
4	290	943	822	0.352	289	0.5	6.745	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	414	810	1661	0.249	414	0.3	2.885	A
2	869	327	1513	0.574	869	1.3	5.583	A
3	837	358	1655	0.506	837	1.0	4.401	A
4	290	945	821	0.353	290	0.5	6.774	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	338	663	1773	0.191	338	0.2	2.509	A
2	709	267	1549	0.458	711	0.9	4.307	A
3	683	293	1695	0.403	685	0.7	3.565	A
4	236	773	907	0.261	237	0.4	5.386	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	283	555	1856	0.153	283	0.2	2.289	A
2	594	224	1575	0.377	595	0.6	3.674	A
3	572	245	1725	0.332	573	0.5	3.125	A
4	198	647	969	0.204	198	0.3	4.671	A

2035 Sensitivity Test, AM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	4.12	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D28	2035 Sensitivity Test	AM Peak	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	301	100.000
2		✓	551	100.000
3		✓	696	100.000
4		✓	293	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	82	207	12
	2	85	0	351	115
	3	195	437	0	64
	4	19	164	110	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	4	3	0
	2	4	0	3	0
	3	3	0	0	0
	4	16	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.20	2.73	0.3	A
2	0.41	4.21	0.7	A
3	0.44	3.71	0.8	A
4	0.36	6.40	0.6	A

Main Results for each time segment

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	533	1836	0.123	226	0.1	2.235	A
2	415	247	1531	0.271	413	0.4	3.217	A
3	524	159	1784	0.294	522	0.4	2.850	A
4	221	538	1009	0.219	219	0.3	4.554	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	271	638	1758	0.154	270	0.2	2.419	A
2	495	295	1502	0.330	495	0.5	3.572	A
3	626	190	1764	0.355	625	0.5	3.160	A
4	263	644	957	0.275	263	0.4	5.189	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	331	782	1652	0.201	331	0.2	2.724	A
2	607	362	1463	0.415	606	0.7	4.196	A
3	766	233	1736	0.441	765	0.8	3.704	A
4	323	788	885	0.364	322	0.6	6.381	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	331	783	1651	0.201	331	0.3	2.726	A
2	607	362	1462	0.415	607	0.7	4.206	A
3	766	233	1736	0.441	766	0.8	3.710	A
4	323	789	885	0.365	323	0.6	6.401	A

09:15 - 09:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	271	640	1757	0.154	271	0.2	2.422	A
2	495	296	1502	0.330	496	0.5	3.585	A
3	626	191	1763	0.355	627	0.6	3.171	A
4	263	646	956	0.276	264	0.4	5.212	A

09:30 - 09:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	536	1834	0.124	227	0.1	2.240	A
2	415	248	1530	0.271	415	0.4	3.231	A
3	524	160	1783	0.294	525	0.4	2.862	A
4	221	540	1008	0.219	221	0.3	4.578	A

2035 Sensitivity Test, PM Peak

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	5.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D29	2035 Sensitivity Test	PM Peak	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	366	100.000
2		✓	840	100.000
3		✓	770	100.000
4		✓	273	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	140	214	12
	2	138	0	487	215
	3	210	467	0	93
	4	26	176	71	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	3	0
	2	1	0	1	0
	3	4	2	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.24	2.87	0.3	A
2	0.61	6.15	1.6	A
3	0.53	4.73	1.1	A
4	0.36	6.69	0.6	A

Main Results for each time segment

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	276	535	1849	0.149	275	0.2	2.286	A
2	632	223	1573	0.402	630	0.7	3.806	A
3	580	274	1688	0.343	578	0.5	3.236	A
4	206	611	983	0.209	204	0.3	4.618	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	329	641	1768	0.186	329	0.2	2.500	A
2	755	267	1546	0.488	754	0.9	4.538	A
3	692	328	1654	0.418	691	0.7	3.734	A
4	245	732	922	0.266	245	0.4	5.313	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	403	784	1660	0.243	403	0.3	2.863	A
2	925	327	1510	0.613	922	1.6	6.101	A
3	848	401	1609	0.527	846	1.1	4.710	A
4	301	896	840	0.358	300	0.6	6.658	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	403	786	1658	0.243	403	0.3	2.866	A
2	925	327	1510	0.613	925	1.6	6.154	A
3	848	402	1608	0.527	848	1.1	4.733	A
4	301	897	839	0.358	301	0.6	6.687	A

16:15 - 16:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	329	643	1767	0.186	329	0.2	2.505	A
2	755	267	1546	0.489	758	1.0	4.581	A
3	692	329	1654	0.419	694	0.7	3.758	A
4	245	734	921	0.266	246	0.4	5.339	A

16:30 - 16:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	276	538	1846	0.149	276	0.2	2.294	A
2	632	224	1572	0.402	634	0.7	3.841	A
3	580	275	1687	0.344	580	0.5	3.257	A
4	206	614	982	0.209	206	0.3	4.643	A

2035 Sensitivity Test, Saturday

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	Commercial Stree/Mill Street	Standard Roundabout		1, 2, 3, 4	5.11	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D30	2035 Sensitivity Test	Saturday	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	389	100.000
2		✓	818	100.000
3		✓	788	100.000
4		✓	272	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	169	209	11
	2	164	0	492	162
	3	213	512	0	63
	4	23	162	87	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	1	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.26	2.97	0.4	A
2	0.60	5.94	1.5	A
3	0.53	4.62	1.1	A
4	0.37	7.14	0.6	A

Main Results for each time segment

12:15 - 12:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	293	571	1844	0.159	292	0.2	2.319	A
2	616	230	1571	0.392	613	0.6	3.748	A
3	593	253	1721	0.345	591	0.5	3.182	A
4	205	667	959	0.213	204	0.3	4.757	A

12:30 - 12:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	350	683	1758	0.199	349	0.2	2.555	A
2	735	276	1544	0.476	734	0.9	4.440	A
3	708	303	1689	0.419	708	0.7	3.663	A
4	245	798	894	0.274	244	0.4	5.536	A

12:45 - 13:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	836	1642	0.261	428	0.4	2.966	A
2	901	338	1507	0.598	898	1.5	5.893	A
3	868	370	1647	0.527	866	1.1	4.601	A
4	299	977	805	0.372	299	0.6	7.100	A

13:00 - 13:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	838	1640	0.261	428	0.4	2.969	A
2	901	338	1507	0.598	901	1.5	5.938	A
3	868	371	1646	0.527	868	1.1	4.622	A
4	299	979	804	0.373	299	0.6	7.135	A

13:15 - 13:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	350	686	1756	0.199	350	0.2	2.560	A
2	735	276	1544	0.476	738	0.9	4.477	A
3	708	304	1688	0.420	710	0.7	3.686	A
4	245	801	893	0.274	245	0.4	5.569	A

13:30 - 13:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	293	574	1841	0.159	293	0.2	2.327	A
2	616	231	1571	0.392	617	0.6	3.777	A
3	593	254	1720	0.345	594	0.5	3.200	A
4	205	670	958	0.214	205	0.3	4.786	A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.1.7462

For sales and distribution information, program advice and maintenance, contact TRL:
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk

Filename: J4.j9
Path: C:\Users\lloyd\Corun Associates Ltd\Communication site - Documents\23-00849 - Lidl, Land at Pontymister, Risca\Capacity Analysis\PICADY
Report generation date: 18/10/2024 15:20:09

Summary of junction performance

	AM					PM					SAT				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2024 Survey Flows														
Stream B-AC	D1	0.5	10.52	0.33	B	D2	0.6	11.72	0.38	B	D3	0.5	11.40	0.34	B
Stream C-AB		0.3	7.31	0.18	A		0.5	7.51	0.27	A		0.4	7.47	0.23	A
	2025 Without Development														
Stream B-AC	D4	0.5	10.57	0.33	B	D5	0.6	11.78	0.39	B	D6	0.5	11.47	0.34	B
Stream C-AB		0.3	7.31	0.18	A		0.5	7.52	0.27	A		0.4	7.48	0.23	A
	2030 Without Development														
Stream B-AC	D7	0.5	11.13	0.35	B	D8	0.7	12.46	0.41	B	D9	0.6	12.29	0.37	B
Stream C-AB		0.3	7.34	0.19	A		0.5	7.54	0.29	A		0.4	7.52	0.25	A
	2035 Without Development														
Stream B-AC	D10	0.6	11.54	0.37	B	D11	0.8	13.20	0.43	B	D12	0.6	12.94	0.39	B
Stream C-AB		0.3	7.37	0.20	A		0.6	7.58	0.30	A		0.5	7.55	0.26	A
	2025 With Development														
Stream B-AC	D13	0.5	10.86	0.34	B	D14	0.7	12.19	0.40	B	D15	0.5	12.00	0.36	B
Stream C-AB		0.3	7.35	0.18	A		0.5	7.54	0.28	A		0.4	7.53	0.24	A
	2030 With Development														
Stream B-AC	D16	0.6	11.46	0.36	B	D17	0.7	12.90	0.43	B	D18	0.6	12.92	0.39	B
Stream C-AB		0.3	7.38	0.19	A		0.6	7.56	0.30	A		0.5	7.56	0.26	A
	2035 With Development														
Stream B-AC	D19	0.6	11.90	0.38	B	D20	0.8	13.70	0.45	B	D21	0.7	13.54	0.40	B
Stream C-AB		0.3	7.41	0.20	A		0.6	7.60	0.31	A		0.5	7.58	0.27	A
	2025 Sensitivity Test														
Stream B-AC	D22	0.5	10.92	0.34	B	D23	0.7	12.27	0.40	B	D24	0.6	12.10	0.36	B
Stream C-AB		0.3	7.35	0.18	A		0.5	7.54	0.28	A		0.4	7.54	0.25	A
	2030 Sensitivity Test														
Stream B-AC	D25	0.6	11.52	0.37	B	D26	0.7	13.00	0.43	B	D27	0.6	13.03	0.39	B
Stream C-AB		0.3	7.39	0.19	A		0.6	7.57	0.30	A		0.5	7.57	0.26	A
	2035 Sensitivity Test														
Stream B-AC	D28	0.6	11.97	0.38	B	D29	0.8	13.81	0.45	B	D30	0.7	13.67	0.41	B
Stream C-AB		0.3	7.42	0.20	A		0.7	7.60	0.31	A		0.5	7.59	0.28	A

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

File summary

File Description

Title	
Location	
Site number	
Date	25/09/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LAPTOP-7PJKROJB\lloyd
Description	

Units

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

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM	ONE HOUR	08:15	09:45	15
D2	2024 Survey Flows	PM	ONE HOUR	15:15	16:45	15
D3	2024 Survey Flows	SAT	ONE HOUR	12:15	13:45	15
D4	2025 Without Development	AM	ONE HOUR	08:15	09:45	15
D5	2025 Without Development	PM	ONE HOUR	15:15	16:45	15
D6	2025 Without Development	SAT	ONE HOUR	12:15	13:45	15
D7	2030 Without Development	AM	ONE HOUR	08:15	09:45	15
D8	2030 Without Development	PM	ONE HOUR	15:15	16:45	15
D9	2030 Without Development	SAT	ONE HOUR	12:15	13:45	15
D10	2035 Without Development	AM	ONE HOUR	08:15	09:45	15
D11	2035 Without Development	PM	ONE HOUR	15:15	16:45	15
D12	2035 Without Development	SAT	ONE HOUR	12:15	13:45	15
D13	2025 With Development	AM	ONE HOUR	08:15	09:45	15
D14	2025 With Development	PM	ONE HOUR	15:15	16:45	15
D15	2025 With Development	SAT	ONE HOUR	12:15	13:45	15
D16	2030 With Development	AM	ONE HOUR	08:15	09:45	15
D17	2030 With Development	PM	ONE HOUR	15:15	16:45	15
D18	2030 With Development	SAT	ONE HOUR	12:15	13:45	15
D19	2035 With Development	AM	ONE HOUR	08:15	09:45	15
D20	2035 With Development	PM	ONE HOUR	15:15	16:45	15
D21	2035 With Development	SAT	ONE HOUR	12:15	13:45	15
D22	2025 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15
D23	2025 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15
D24	2025 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15
D25	2030 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15
D26	2030 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15
D27	2030 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15
D28	2035 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15
D29	2035 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15
D30	2035 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Survey Flows, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.87	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Commercial Street (East Arm)		Major
B	Maryland Road		Minor
C	Commercial Street (West Arm)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.31			91.0	✓	1.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.70	21	23

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	531	0.095	0.241	0.152	0.344
B-C	683	0.103	0.261	-	-
C-B	627	0.240	0.240	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Survey Flows	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	460	100.000
B		✓	150	100.000
C		✓	575	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	454
	B	12	0	138
	C	494	81	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.33	10.52	0.5	B
C-AB	0.18	7.31	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	113	559	0.202	112	0.3	8.040	A
C-AB	66	584	0.112	65	0.1	6.934	A
C-A	367			367			
A-B	5			5			
A-C	342			342			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	135	538	0.251	135	0.3	8.925	A
C-AB	81	587	0.139	81	0.2	7.113	A
C-A	436			436			
A-B	5			5			
A-C	408			408			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	165	507	0.326	165	0.5	10.483	B
C-AB	106	599	0.177	106	0.3	7.296	A
C-A	527			527			
A-B	7			7			
A-C	500			500			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	165	507	0.326	165	0.5	10.519	B
C-AB	106	599	0.177	106	0.3	7.306	A
C-A	527			527			
A-B	7			7			
A-C	500			500			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	135	537	0.251	135	0.3	8.965	A
C-AB	81	588	0.138	82	0.2	7.126	A
C-A	436			436			
A-B	5			5			
A-C	408			408			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	113	559	0.202	113	0.3	8.088	A
C-AB	66	584	0.112	66	0.1	6.954	A
C-A	367			367			
A-B	5			5			
A-C	342			342			

2024 Survey Flows, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.27	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Survey Flows	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	508	100.000
B		✓	174	100.000
C		✓	686	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	502
	B	9	0	165
	C	567	119	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.38	11.72	0.6	B
C-AB	0.27	7.51	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	131	555	0.236	130	0.3	8.436	A
C-AB	102	604	0.168	101	0.2	7.140	A
C-A	415			415			
A-B	5			5			
A-C	378			378			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	156	532	0.294	156	0.4	9.560	A
C-AB	129	620	0.208	129	0.3	7.327	A
C-A	488			488			
A-B	5			5			
A-C	451			451			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	192	499	0.384	191	0.6	11.655	B
C-AB	176	656	0.268	175	0.5	7.489	A
C-A	579			579			
A-B	7			7			
A-C	553			553			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	192	499	0.384	192	0.6	11.716	B
C-AB	176	656	0.268	176	0.5	7.512	A
C-A	579			579			
A-B	7			7			
A-C	553			553			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	156	532	0.294	157	0.4	9.622	A
C-AB	129	621	0.208	130	0.3	7.356	A
C-A	488			488			
A-B	5			5			
A-C	451			451			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	131	555	0.236	131	0.3	8.503	A
C-AB	102	605	0.168	102	0.2	7.179	A
C-A	415			415			
A-B	5			5			
A-C	378			378			

2024 Survey Flows, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.87	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2024 Survey Flows	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	552	100.000
B		✓	145	100.000
C		✓	675	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	547
	B	12	0	133
	C	574	101	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	0
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.34	11.40	0.5	B
C-AB	0.23	7.47	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	109	538	0.203	108	0.3	8.352	A
C-AB	85	589	0.144	84	0.2	7.119	A
C-A	423			423			
A-B	4			4			
A-C	412			412			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	130	513	0.254	130	0.3	9.402	A
C-AB	107	600	0.179	107	0.3	7.301	A
C-A	500			500			
A-B	4			4			
A-C	492			492			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	160	475	0.336	159	0.5	11.355	B
C-AB	145	627	0.231	144	0.4	7.463	A
C-A	598			598			
A-B	6			6			
A-C	602			602			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	160	475	0.336	160	0.5	11.401	B
C-AB	145	627	0.231	145	0.4	7.474	A
C-A	598			598			
A-B	6			6			
A-C	602			602			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	130	512	0.254	131	0.3	9.453	A
C-AB	107	600	0.179	108	0.3	7.327	A
C-A	500			500			
A-B	4			4			
A-C	492			492			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	109	538	0.203	110	0.3	8.407	A
C-AB	85	590	0.144	85	0.2	7.146	A
C-A	423			423			
A-B	4			4			
A-C	412			412			

2025 Without Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2025 Without Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	462	100.000
B		✓	151	100.000
C		✓	577	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	456
	B	12	0	139
	C	496	81	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.33	10.57	0.5	B
C-AB	0.18	7.31	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	114	558	0.204	113	0.3	8.058	A
C-AB	66	584	0.113	65	0.1	6.937	A
C-A	369			369			
A-B	5			5			
A-C	343			343			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	537	0.253	135	0.3	8.952	A
C-AB	81	587	0.139	81	0.2	7.115	A
C-A	437			437			
A-B	5			5			
A-C	410			410			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	166	507	0.328	166	0.5	10.531	B
C-AB	106	599	0.178	106	0.3	7.298	A
C-A	529			529			
A-B	7			7			
A-C	502			502			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	166	507	0.328	166	0.5	10.566	B
C-AB	106	599	0.178	106	0.3	7.305	A
C-A	529			529			
A-B	7			7			
A-C	502			502			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	537	0.253	136	0.3	8.993	A
C-AB	81	588	0.139	82	0.2	7.131	A
C-A	437			437			
A-B	5			5			
A-C	410			410			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	114	558	0.204	114	0.3	8.106	A
C-AB	66	584	0.113	66	0.1	6.956	A
C-A	369			369			
A-B	5			5			
A-C	343			343			

2025 Without Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.28	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2025 Without Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	510	100.000
B		✓	175	100.000
C		✓	689	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	504
	B	9	0	166
	C	569	120	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	11.78	0.6	B
C-AB	0.27	7.52	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	132	555	0.237	131	0.3	8.456	A
C-AB	103	605	0.170	102	0.2	7.147	A
C-A	416			416			
A-B	5			5			
A-C	379			379			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	157	532	0.296	157	0.4	9.597	A
C-AB	130	621	0.210	130	0.3	7.334	A
C-A	489			489			
A-B	5			5			
A-C	453			453			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	193	498	0.387	192	0.6	11.720	B
C-AB	178	657	0.271	177	0.5	7.497	A
C-A	581			581			
A-B	7			7			
A-C	555			555			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	193	498	0.387	193	0.6	11.781	B
C-AB	178	658	0.271	178	0.5	7.520	A
C-A	581			581			
A-B	7			7			
A-C	555			555			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	157	532	0.296	158	0.4	9.659	A
C-AB	130	622	0.210	131	0.3	7.363	A
C-A	489			489			
A-B	5			5			
A-C	453			453			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	132	555	0.237	132	0.3	8.526	A
C-AB	103	605	0.170	103	0.2	7.183	A
C-A	416			416			
A-B	5			5			
A-C	379			379			

2025 Without Development, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.89	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2025 Without Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	555	100.000
B		✓	146	100.000
C		✓	679	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	550
	B	12	0	134
	C	577	102	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	0
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.34	11.47	0.5	B
C-AB	0.23	7.48	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	110	538	0.204	109	0.3	8.382	A
C-AB	86	590	0.146	85	0.2	7.126	A
C-A	425			425			
A-B	4			4			
A-C	414			414			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	131	512	0.256	131	0.3	9.440	A
C-AB	109	601	0.181	108	0.3	7.308	A
C-A	502			502			
A-B	4			4			
A-C	494			494			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	161	474	0.339	160	0.5	11.427	B
C-AB	147	629	0.234	147	0.4	7.469	A
C-A	601			601			
A-B	6			6			
A-C	606			606			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	161	474	0.339	161	0.5	11.473	B
C-AB	147	629	0.234	147	0.4	7.481	A
C-A	601			601			
A-B	6			6			
A-C	606			606			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	131	512	0.256	132	0.3	9.490	A
C-AB	109	601	0.181	109	0.3	7.334	A
C-A	502			502			
A-B	4			4			
A-C	494			494			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	110	538	0.204	110	0.3	8.432	A
C-AB	86	590	0.146	86	0.2	7.156	A
C-A	425			425			
A-B	4			4			
A-C	414			414			

2030 Without Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.96	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2030 Without Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	484	100.000
B		✓	158	100.000
C		✓	606	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	478
	B	13	0	145
	C	521	85	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.35	11.13	0.5	B
C-AB	0.19	7.34	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	119	552	0.215	118	0.3	8.270	A
C-AB	70	584	0.119	69	0.1	6.978	A
C-A	387			387			
A-B	5			5			
A-C	360			360			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	142	530	0.268	142	0.4	9.273	A
C-AB	87	589	0.147	86	0.2	7.158	A
C-A	458			458			
A-B	5			5			
A-C	430			430			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	174	497	0.350	173	0.5	11.086	B
C-AB	114	604	0.189	114	0.3	7.333	A
C-A	553			553			
A-B	7			7			
A-C	526			526			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	174	497	0.350	174	0.5	11.131	B
C-AB	114	605	0.188	114	0.3	7.344	A
C-A	553			553			
A-B	7			7			
A-C	526			526			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	142	530	0.268	143	0.4	9.321	A
C-AB	87	590	0.147	87	0.2	7.173	A
C-A	458			458			
A-B	5			5			
A-C	430			430			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	119	552	0.215	119	0.3	8.326	A
C-AB	70	585	0.119	70	0.1	7.001	A
C-A	387			387			
A-B	5			5			
A-C	360			360			

2030 Without Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2030 Without Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	535	100.000
B		✓	183	100.000
C		✓	723	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	529
	B	9	0	174
	C	598	125	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.41	12.46	0.7	B
C-AB	0.29	7.54	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	138	550	0.250	136	0.3	8.672	A
C-AB	108	608	0.178	107	0.2	7.187	A
C-A	436			436			
A-B	5			5			
A-C	398			398			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	165	526	0.313	164	0.4	9.939	A
C-AB	139	627	0.221	138	0.3	7.368	A
C-A	511			511			
A-B	5			5			
A-C	476			476			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	201	490	0.411	201	0.7	12.380	B
C-AB	191	669	0.286	191	0.5	7.521	A
C-A	605			605			
A-B	7			7			
A-C	582			582			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	201	490	0.411	201	0.7	12.457	B
C-AB	191	670	0.286	191	0.5	7.544	A
C-A	605			605			
A-B	7			7			
A-C	582			582			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	165	526	0.313	165	0.5	10.016	B
C-AB	139	628	0.221	139	0.4	7.405	A
C-A	511			511			
A-B	5			5			
A-C	476			476			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	138	550	0.250	138	0.3	8.749	A
C-AB	108	608	0.178	109	0.3	7.225	A
C-A	436			436			
A-B	5			5			
A-C	398			398			

2030 Without Development, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.00	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D9	2030 Without Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	583	100.000
B		✓	154	100.000
C		✓	713	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	578
	B	13	0	141
	C	606	107	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	0
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.37	12.29	0.6	B
C-AB	0.25	7.52	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	116	530	0.219	115	0.3	8.647	A
C-AB	91	592	0.154	91	0.2	7.171	A
C-A	445			445			
A-B	4			4			
A-C	435			435			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	138	503	0.275	138	0.4	9.864	A
C-AB	116	606	0.192	116	0.3	7.351	A
C-A	525			525			
A-B	4			4			
A-C	520			520			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	170	462	0.367	169	0.6	12.228	B
C-AB	159	639	0.249	159	0.4	7.494	A
C-A	626			626			
A-B	6			6			
A-C	636			636			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	170	462	0.367	170	0.6	12.293	B
C-AB	159	639	0.249	159	0.4	7.516	A
C-A	626			626			
A-B	6			6			
A-C	636			636			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	138	503	0.276	139	0.4	9.928	A
C-AB	116	606	0.192	117	0.3	7.381	A
C-A	525			525			
A-B	4			4			
A-C	520			520			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	116	530	0.219	116	0.3	8.712	A
C-AB	91	592	0.154	92	0.2	7.203	A
C-A	445			445			
A-B	4			4			
A-C	435			435			

2035 Without Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D10	2035 Without Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	502	100.000
B		✓	164	100.000
C		✓	626	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	495
	B	13	0	151
	C	538	88	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.37	11.54	0.6	B
C-AB	0.20	7.37	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	549	0.225	122	0.3	8.410	A
C-AB	72	585	0.124	72	0.2	7.015	A
C-A	399			399			
A-B	5			5			
A-C	373			373			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	526	0.280	147	0.4	9.493	A
C-AB	90	590	0.153	90	0.2	7.195	A
C-A	472			472			
A-B	6			6			
A-C	445			445			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	181	492	0.367	180	0.6	11.488	B
C-AB	120	608	0.197	120	0.3	7.365	A
C-A	569			569			
A-B	8			8			
A-C	545			545			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	181	492	0.367	181	0.6	11.541	B
C-AB	120	608	0.197	120	0.3	7.374	A
C-A	569			569			
A-B	8			8			
A-C	545			545			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	526	0.280	148	0.4	9.550	A
C-AB	90	591	0.153	91	0.2	7.214	A
C-A	472			472			
A-B	6			6			
A-C	445			445			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	549	0.225	124	0.3	8.472	A
C-AB	72	585	0.124	73	0.2	7.036	A
C-A	399			399			
A-B	5			5			
A-C	373			373			

2035 Without Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.51	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D11	2035 Without Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	553	100.000
B		✓	190	100.000
C		✓	747	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	546
	B	10	0	180
	C	617	130	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	10	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.43	13.20	0.8	B
C-AB	0.30	7.58	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	143	545	0.262	142	0.4	8.896	A
C-AB	114	611	0.187	113	0.3	7.221	A
C-A	448			448			
A-B	5			5			
A-C	411			411			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	171	519	0.329	170	0.5	10.300	B
C-AB	147	632	0.232	146	0.4	7.403	A
C-A	525			525			
A-B	6			6			
A-C	491			491			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	209	482	0.434	208	0.7	13.098	B
C-AB	204	680	0.301	204	0.6	7.553	A
C-A	618			618			
A-B	8			8			
A-C	601			601			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	209	482	0.434	209	0.8	13.199	B
C-AB	204	681	0.300	204	0.6	7.583	A
C-A	618			618			
A-B	8			8			
A-C	601			601			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	171	519	0.329	172	0.5	10.395	B
C-AB	147	633	0.232	148	0.4	7.445	A
C-A	525			525			
A-B	6			6			
A-C	491			491			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	143	545	0.263	144	0.4	8.983	A
C-AB	114	611	0.187	115	0.3	7.265	A
C-A	448			448			
A-B	5			5			
A-C	411			411			

2035 Without Development , SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.07	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D12	2035 Without Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	605	100.000
B		✓	159	100.000
C		✓	740	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	600
	B	13	0	146
	C	629	111	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	12.94	0.6	B
C-AB	0.26	7.55	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	120	525	0.228	119	0.3	8.837	A
C-AB	96	593	0.162	95	0.2	7.220	A
C-A	461			461			
A-B	4			4			
A-C	452			452			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	143	496	0.288	143	0.4	10.175	B
C-AB	123	609	0.202	122	0.3	7.398	A
C-A	542			542			
A-B	4			4			
A-C	539			539			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	175	453	0.386	174	0.6	12.853	B
C-AB	170	647	0.263	169	0.5	7.533	A
C-A	645			645			
A-B	6			6			
A-C	661			661			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	175	453	0.386	175	0.6	12.935	B
C-AB	170	647	0.263	170	0.5	7.555	A
C-A	645			645			
A-B	6			6			
A-C	661			661			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	143	496	0.288	144	0.4	10.252	B
C-AB	123	609	0.201	123	0.3	7.432	A
C-A	542			542			
A-B	4			4			
A-C	539			539			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	120	525	0.228	120	0.3	8.908	A
C-AB	96	593	0.162	96	0.2	7.254	A
C-A	461			461			
A-B	4			4			
A-C	452			452			

2025 With Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D13	2025 With Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	477	100.000
B		✓	156	100.000
C		✓	585	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	471
	B	12	0	144
	C	503	82	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.34	10.86	0.5	B
C-AB	0.18	7.35	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	117	556	0.211	116	0.3	8.165	A
C-AB	67	582	0.115	66	0.1	6.967	A
C-A	374			374			
A-B	5			5			
A-C	355			355			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	140	534	0.262	140	0.4	9.117	A
C-AB	83	586	0.141	83	0.2	7.152	A
C-A	443			443			
A-B	5			5			
A-C	423			423			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	503	0.341	171	0.5	10.818	B
C-AB	108	598	0.181	108	0.3	7.339	A
C-A	536			536			
A-B	7			7			
A-C	519			519			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	172	503	0.341	172	0.5	10.857	B
C-AB	108	599	0.181	108	0.3	7.346	A
C-A	536			536			
A-B	7			7			
A-C	519			519			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	140	534	0.262	141	0.4	9.164	A
C-AB	83	586	0.141	83	0.2	7.166	A
C-A	443			443			
A-B	5			5			
A-C	423			423			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	117	556	0.211	118	0.3	8.220	A
C-AB	67	583	0.114	67	0.1	6.989	A
C-A	374			374			
A-B	5			5			
A-C	355			355			

2025 With Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.34	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D14	2025 With Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	525	100.000
B		✓	180	100.000
C		✓	709	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	519
	B	9	0	171
	C	586	123	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.40	12.19	0.7	B
C-AB	0.28	7.54	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	552	0.245	134	0.3	8.588	A
C-AB	106	606	0.175	105	0.2	7.172	A
C-A	428			428			
A-B	5			5			
A-C	391			391			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	162	528	0.306	161	0.4	9.800	A
C-AB	135	624	0.217	135	0.3	7.356	A
C-A	502			502			
A-B	5			5			
A-C	467			467			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	198	494	0.402	197	0.7	12.112	B
C-AB	186	664	0.280	185	0.5	7.513	A
C-A	595			595			
A-B	7			7			
A-C	571			571			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	198	494	0.402	198	0.7	12.185	B
C-AB	186	665	0.280	186	0.5	7.535	A
C-A	595			595			
A-B	7			7			
A-C	571			571			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	162	528	0.306	163	0.4	9.875	A
C-AB	135	625	0.216	136	0.3	7.391	A
C-A	502			502			
A-B	5			5			
A-C	467			467			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	552	0.245	136	0.3	8.660	A
C-AB	106	607	0.175	107	0.2	7.209	A
C-A	428			428			
A-B	5			5			
A-C	391			391			

2025 With Development, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D15	2025 With Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	577	100.000
B		✓	151	100.000
C		✓	702	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	572
	B	12	0	139
	C	597	105	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.36	12.00	0.5	B
C-AB	0.24	7.53	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	114	533	0.213	113	0.3	8.549	A
C-AB	89	590	0.152	89	0.2	7.174	A
C-A	439			439			
A-B	4			4			
A-C	431			431			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	506	0.269	135	0.4	9.715	A
C-AB	113	602	0.188	113	0.3	7.360	A
C-A	518			518			
A-B	4			4			
A-C	514			514			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	166	466	0.357	166	0.5	11.946	B
C-AB	155	633	0.245	154	0.4	7.512	A
C-A	618			618			
A-B	6			6			
A-C	630			630			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	166	466	0.357	166	0.5	12.004	B
C-AB	155	634	0.244	155	0.4	7.530	A
C-A	618			618			
A-B	6			6			
A-C	630			630			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	505	0.269	136	0.4	9.773	A
C-AB	113	603	0.188	114	0.3	7.389	A
C-A	518			518			
A-B	4			4			
A-C	514			514			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	114	533	0.213	114	0.3	8.611	A
C-AB	89	590	0.152	90	0.2	7.206	A
C-A	439			439			
A-B	4			4			
A-C	431			431			

2030 With Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.01	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D16	2030 With Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	499	100.000
B		✓	163	100.000
C		✓	614	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	493
	B	13	0	150
	C	528	86	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.36	11.46	0.6	B
C-AB	0.19	7.38	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	550	0.223	122	0.3	8.385	A
C-AB	71	583	0.121	70	0.1	7.010	A
C-A	392			392			
A-B	5			5			
A-C	371			371			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	527	0.278	146	0.4	9.450	A
C-AB	88	588	0.150	88	0.2	7.194	A
C-A	464			464			
A-B	5			5			
A-C	443			443			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	179	494	0.364	179	0.6	11.407	B
C-AB	116	604	0.192	116	0.3	7.372	A
C-A	560			560			
A-B	7			7			
A-C	543			543			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	179	494	0.364	179	0.6	11.458	B
C-AB	116	604	0.192	116	0.3	7.383	A
C-A	560			560			
A-B	7			7			
A-C	543			543			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	527	0.278	147	0.4	9.504	A
C-AB	88	589	0.149	88	0.2	7.212	A
C-A	464			464			
A-B	5			5			
A-C	443			443			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	550	0.223	123	0.3	8.446	A
C-AB	71	583	0.121	71	0.2	7.033	A
C-A	392			392			
A-B	5			5			
A-C	371			371			

2030 With Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.45	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D17	2030 With Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	549	100.000
B		✓	188	100.000
C		✓	742	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	543
	B	9	0	179
	C	614	128	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.43	12.90	0.7	B
C-AB	0.30	7.56	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	142	548	0.258	140	0.3	8.803	A
C-AB	112	610	0.184	111	0.3	7.207	A
C-A	447			447			
A-B	5			5			
A-C	409			409			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	169	522	0.323	169	0.5	10.153	B
C-AB	144	630	0.228	143	0.4	7.388	A
C-A	523			523			
A-B	5			5			
A-C	488			488			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	207	486	0.426	206	0.7	12.808	B
C-AB	200	677	0.295	199	0.6	7.535	A
C-A	617			617			
A-B	7			7			
A-C	598			598			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	207	486	0.426	207	0.7	12.899	B
C-AB	200	677	0.295	200	0.6	7.563	A
C-A	617			617			
A-B	7			7			
A-C	598			598			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	169	522	0.324	170	0.5	10.242	B
C-AB	144	631	0.228	145	0.4	7.428	A
C-A	523			523			
A-B	5			5			
A-C	488			488			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	142	548	0.258	142	0.4	8.888	A
C-AB	112	610	0.184	112	0.3	7.249	A
C-A	447			447			
A-B	5			5			
A-C	409			409			

2030 With Development, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.06	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D18	2030 With Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	605	100.000
B		✓	159	100.000
C		✓	736	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	600
	B	13	0	146
	C	626	110	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	12.92	0.6	B
C-AB	0.26	7.56	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	120	525	0.228	119	0.3	8.834	A
C-AB	95	592	0.160	94	0.2	7.220	A
C-A	459			459			
A-B	4			4			
A-C	452			452			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	143	496	0.288	143	0.4	10.169	B
C-AB	121	607	0.200	121	0.3	7.400	A
C-A	540			540			
A-B	4			4			
A-C	539			539			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	175	454	0.386	174	0.6	12.798	B
C-AB	168	645	0.260	167	0.5	7.538	A
C-A	643			643			
A-B	6			6			
A-C	661			661			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	175	454	0.386	175	0.6	12.920	B
C-AB	168	645	0.260	168	0.5	7.562	A
C-A	643			643			
A-B	6			6			
A-C	661			661			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	143	496	0.288	144	0.4	10.246	B
C-AB	121	608	0.200	122	0.3	7.431	A
C-A	540			540			
A-B	4			4			
A-C	539			539			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	120	525	0.228	120	0.3	8.906	A
C-AB	95	592	0.160	95	0.2	7.257	A
C-A	459			459			
A-B	4			4			
A-C	452			452			

2035 With Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D19	2035 With Development	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	517	100.000
B		✓	169	100.000
C		✓	634	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	510
	B	13	0	156
	C	545	89	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.38	11.90	0.6	B
C-AB	0.20	7.41	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	127	547	0.233	126	0.3	8.530	A
C-AB	74	583	0.126	73	0.2	7.046	A
C-A	404			404			
A-B	5			5			
A-C	384			384			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	152	523	0.291	152	0.4	9.680	A
C-AB	92	589	0.156	92	0.2	7.230	A
C-A	478			478			
A-B	6			6			
A-C	458			458			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	489	0.381	185	0.6	11.834	B
C-AB	122	608	0.201	122	0.3	7.403	A
C-A	576			576			
A-B	8			8			
A-C	562			562			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	186	489	0.381	186	0.6	11.896	B
C-AB	122	608	0.201	122	0.3	7.413	A
C-A	576			576			
A-B	8			8			
A-C	562			562			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	152	523	0.291	153	0.4	9.743	A
C-AB	92	590	0.156	92	0.2	7.250	A
C-A	478			478			
A-B	6			6			
A-C	458			458			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	127	547	0.233	128	0.3	8.598	A
C-AB	74	584	0.126	74	0.2	7.071	A
C-A	404			404			
A-B	5			5			
A-C	384			384			

2035 With Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.58	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D20	2035 With Development	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	567	100.000
B		✓	195	100.000
C		✓	766	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	560
	B	10	0	185
	C	633	133	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	10	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.45	13.70	0.8	B
C-AB	0.31	7.60	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	542	0.271	145	0.4	9.036	A
C-AB	118	613	0.192	117	0.3	7.243	A
C-A	459			459			
A-B	5			5			
A-C	422			422			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	175	516	0.340	175	0.5	10.533	B
C-AB	152	636	0.239	152	0.4	7.421	A
C-A	537			537			
A-B	6			6			
A-C	503			503			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	477	0.450	214	0.8	13.583	B
C-AB	213	688	0.310	212	0.6	7.567	A
C-A	630			630			
A-B	8			8			
A-C	617			617			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	215	477	0.450	215	0.8	13.699	B
C-AB	213	689	0.310	213	0.6	7.599	A
C-A	630			630			
A-B	8			8			
A-C	617			617			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	175	516	0.340	176	0.5	10.641	B
C-AB	152	638	0.238	153	0.4	7.464	A
C-A	537			537			
A-B	6			6			
A-C	503			503			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	542	0.271	147	0.4	9.131	A
C-AB	118	613	0.192	118	0.3	7.288	A
C-A	459			459			
A-B	5			5			
A-C	422			422			

2035 With Development , SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.14	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D21	2035 With Development	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	627	100.000
B		✓	164	100.000
C		✓	763	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	622
	B	13	0	151
	C	649	114	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.40	13.54	0.7	B
C-AB	0.27	7.58	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	521	0.237	122	0.3	9.006	A
C-AB	100	594	0.167	99	0.2	7.252	A
C-A	475			475			
A-B	4			4			
A-C	468			468			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	491	0.300	147	0.4	10.457	B
C-AB	128	612	0.209	128	0.3	7.429	A
C-A	558			558			
A-B	4			4			
A-C	559			559			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	181	446	0.405	180	0.7	13.448	B
C-AB	179	655	0.273	178	0.5	7.556	A
C-A	661			661			
A-B	6			6			
A-C	685			685			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	181	446	0.405	181	0.7	13.544	B
C-AB	179	655	0.273	179	0.5	7.582	A
C-A	661			661			
A-B	6			6			
A-C	685			685			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	491	0.301	148	0.4	10.546	B
C-AB	128	613	0.209	129	0.3	7.467	A
C-A	558			558			
A-B	4			4			
A-C	559			559			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	521	0.237	124	0.3	9.087	A
C-AB	100	595	0.167	100	0.2	7.293	A
C-A	475			475			
A-B	4			4			
A-C	468			468			

2025 Sensitivity Test, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D22	2025 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	480	100.000
B		✓	157	100.000
C		✓	587	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	474
	B	12	0	145
	C	505	82	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.34	10.92	0.5	B
C-AB	0.18	7.35	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	118	556	0.213	117	0.3	8.188	A
C-AB	67	582	0.115	66	0.1	6.972	A
C-A	375			375			
A-B	5			5			
A-C	357			357			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	141	534	0.264	141	0.4	9.151	A
C-AB	83	585	0.141	83	0.2	7.157	A
C-A	445			445			
A-B	5			5			
A-C	426			426			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	173	503	0.344	172	0.5	10.877	B
C-AB	109	598	0.182	108	0.3	7.344	A
C-A	538			538			
A-B	7			7			
A-C	522			522			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	173	502	0.344	173	0.5	10.918	B
C-AB	109	598	0.181	109	0.3	7.355	A
C-A	538			538			
A-B	7			7			
A-C	522			522			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	141	534	0.264	142	0.4	9.199	A
C-AB	83	586	0.141	83	0.2	7.171	A
C-A	445			445			
A-B	5			5			
A-C	426			426			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	118	556	0.213	119	0.3	8.241	A
C-AB	67	582	0.115	67	0.1	6.994	A
C-A	375			375			
A-B	5			5			
A-C	357			357			

2025 Sensitivity Test, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.36	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D23	2025 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	528	100.000
B		✓	181	100.000
C		✓	713	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	522
	B	9	0	172
	C	589	124	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.40	12.27	0.7	B
C-AB	0.28	7.54	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	552	0.247	135	0.3	8.613	A
C-AB	107	607	0.177	106	0.2	7.179	A
C-A	430			430			
A-B	5			5			
A-C	393			393			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	163	527	0.308	162	0.4	9.843	A
C-AB	137	625	0.219	136	0.3	7.363	A
C-A	504			504			
A-B	5			5			
A-C	469			469			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	199	493	0.405	198	0.7	12.197	B
C-AB	188	666	0.283	188	0.5	7.521	A
C-A	597			597			
A-B	7			7			
A-C	575			575			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	199	493	0.405	199	0.7	12.272	B
C-AB	188	666	0.282	188	0.5	7.543	A
C-A	597			597			
A-B	7			7			
A-C	575			575			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	163	527	0.309	164	0.5	9.919	A
C-AB	137	626	0.219	138	0.4	7.399	A
C-A	504			504			
A-B	5			5			
A-C	469			469			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	136	552	0.247	137	0.3	8.688	A
C-AB	107	607	0.176	108	0.2	7.217	A
C-A	430			430			
A-B	5			5			
A-C	393			393			

2025 Sensitivity Test, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.96	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D24	2025 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	581	100.000
B		✓	152	100.000
C		✓	707	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	576
	B	12	0	140
	C	601	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.36	12.10	0.6	B
C-AB	0.25	7.54	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	114	532	0.215	113	0.3	8.578	A
C-AB	90	590	0.153	90	0.2	7.182	A
C-A	442			442			
A-B	4			4			
A-C	434			434			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	137	505	0.271	136	0.4	9.763	A
C-AB	115	603	0.191	115	0.3	7.368	A
C-A	521			521			
A-B	4			4			
A-C	518			518			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	167	465	0.360	167	0.6	12.042	B
C-AB	157	635	0.247	157	0.4	7.518	A
C-A	621			621			
A-B	6			6			
A-C	634			634			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	167	465	0.360	167	0.6	12.101	B
C-AB	157	636	0.247	157	0.4	7.539	A
C-A	621			621			
A-B	6			6			
A-C	634			634			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	137	505	0.271	137	0.4	9.825	A
C-AB	115	604	0.190	115	0.3	7.394	A
C-A	521			521			
A-B	4			4			
A-C	518			518			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	114	532	0.215	115	0.3	8.642	A
C-AB	90	590	0.153	91	0.2	7.214	A
C-A	442			442			
A-B	4			4			
A-C	434			434			

2030 Sensitivity Test, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D25	2030 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	502	100.000
B		✓	164	100.000
C		✓	615	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	496
	B	13	0	151
	C	529	86	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.37	11.52	0.6	B
C-AB	0.19	7.39	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	549	0.225	122	0.3	8.406	A
C-AB	71	583	0.121	70	0.1	7.016	A
C-A	392			392			
A-B	5			5			
A-C	373			373			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	526	0.280	147	0.4	9.486	A
C-AB	88	587	0.150	88	0.2	7.201	A
C-A	465			465			
A-B	5			5			
A-C	446			446			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	181	493	0.366	180	0.6	11.471	B
C-AB	116	603	0.193	116	0.3	7.379	A
C-A	561			561			
A-B	7			7			
A-C	546			546			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	181	493	0.366	181	0.6	11.524	B
C-AB	116	604	0.193	116	0.3	7.388	A
C-A	561			561			
A-B	7			7			
A-C	546			546			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	147	526	0.280	148	0.4	9.541	A
C-AB	88	588	0.150	88	0.2	7.216	A
C-A	465			465			
A-B	5			5			
A-C	446			446			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	123	549	0.225	124	0.3	8.470	A
C-AB	71	583	0.121	71	0.2	7.039	A
C-A	392			392			
A-B	5			5			
A-C	373			373			

2030 Sensitivity Test, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.47	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D26	2030 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	552	100.000
B		✓	189	100.000
C		✓	746	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	546
	B	9	0	180
	C	617	129	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	11	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.43	13.00	0.7	B
C-AB	0.30	7.57	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	142	547	0.260	141	0.3	8.833	A
C-AB	113	610	0.185	112	0.3	7.214	A
C-A	449			449			
A-B	5			5			
A-C	411			411			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	170	522	0.326	169	0.5	10.200	B
C-AB	145	632	0.230	145	0.4	7.395	A
C-A	525			525			
A-B	5			5			
A-C	491			491			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	208	485	0.429	207	0.7	12.901	B
C-AB	202	679	0.298	201	0.6	7.542	A
C-A	619			619			
A-B	7			7			
A-C	601			601			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	208	485	0.429	208	0.7	12.995	B
C-AB	202	679	0.298	202	0.6	7.571	A
C-A	619			619			
A-B	7			7			
A-C	601			601			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	170	522	0.326	171	0.5	10.291	B
C-AB	145	633	0.230	146	0.4	7.433	A
C-A	525			525			
A-B	5			5			
A-C	491			491			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	142	547	0.260	143	0.4	8.918	A
C-AB	113	611	0.185	114	0.3	7.260	A
C-A	449			449			
A-B	5			5			
A-C	411			411			

2030 Sensitivity Test, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D27	2030 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	609	100.000
B		✓	160	100.000
C		✓	741	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	604
	B	13	0	147
	C	630	111	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.39	13.03	0.6	B
C-AB	0.26	7.57	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	120	524	0.230	119	0.3	8.865	A
C-AB	96	593	0.162	95	0.2	7.228	A
C-A	462			462			
A-B	4			4			
A-C	455			455			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	144	495	0.291	143	0.4	10.223	B
C-AB	123	608	0.202	123	0.3	7.407	A
C-A	543			543			
A-B	4			4			
A-C	543			543			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	176	452	0.389	175	0.6	12.948	B
C-AB	170	647	0.263	170	0.5	7.544	A
C-A	646			646			
A-B	6			6			
A-C	665			665			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	176	452	0.389	176	0.6	13.029	B
C-AB	170	647	0.263	170	0.5	7.565	A
C-A	646			646			
A-B	6			6			
A-C	665			665			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	144	495	0.291	145	0.4	10.299	B
C-AB	123	609	0.202	124	0.3	7.439	A
C-A	543			543			
A-B	4			4			
A-C	543			543			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	120	524	0.230	121	0.3	8.940	A
C-AB	96	593	0.162	96	0.2	7.262	A
C-A	462			462			
A-B	4			4			
A-C	455			455			

2035 Sensitivity Test, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D28	2035 Sensitivity Test	AM	ONE HOUR	08:15	09:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	520	100.000
B		✓	170	100.000
C		✓	635	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	513
	B	13	0	157
	C	546	89	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	8	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.38	11.97	0.6	B
C-AB	0.20	7.42	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	128	546	0.234	127	0.3	8.553	A
C-AB	74	583	0.126	73	0.2	7.052	A
C-A	405			405			
A-B	5			5			
A-C	386			386			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	153	522	0.293	152	0.4	9.721	A
C-AB	92	589	0.156	92	0.2	7.237	A
C-A	479			479			
A-B	6			6			
A-C	461			461			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	187	488	0.384	186	0.6	11.906	B
C-AB	122	607	0.201	122	0.3	7.411	A
C-A	577			577			
A-B	8			8			
A-C	565			565			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	187	488	0.384	187	0.6	11.968	B
C-AB	122	608	0.201	122	0.3	7.420	A
C-A	577			577			
A-B	8			8			
A-C	565			565			

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	153	522	0.293	154	0.4	9.784	A
C-AB	92	590	0.156	92	0.2	7.254	A
C-A	479			479			
A-B	6			6			
A-C	461			461			

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	128	546	0.234	128	0.3	8.623	A
C-AB	74	583	0.126	74	0.2	7.077	A
C-A	405			405			
A-B	5			5			
A-C	386			386			

2035 Sensitivity Test, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.60	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D29	2035 Sensitivity Test	PM	ONE HOUR	15:15	16:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	570	100.000
B		✓	196	100.000
C		✓	770	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	563
	B	10	0	186
	C	636	134	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	10	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.45	13.81	0.8	B
C-AB	0.31	7.60	0.7	A
C-A				
A-B				
A-C				

Main Results for each time segment

15:15 - 15:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	148	542	0.272	146	0.4	9.067	A
C-AB	119	614	0.194	118	0.3	7.249	A
C-A	461			461			
A-B	5			5			
A-C	424			424			

15:30 - 15:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	176	515	0.342	176	0.5	10.584	B
C-AB	154	638	0.241	153	0.4	7.428	A
C-A	539			539			
A-B	6			6			
A-C	506			506			

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	216	476	0.453	215	0.8	13.689	B
C-AB	216	690	0.313	215	0.6	7.574	A
C-A	632			632			
A-B	8			8			
A-C	620			620			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	216	476	0.453	216	0.8	13.809	B
C-AB	216	691	0.313	216	0.7	7.603	A
C-A	632			632			
A-B	8			8			
A-C	620			620			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	176	515	0.342	177	0.5	10.694	B
C-AB	154	639	0.241	155	0.4	7.475	A
C-A	539			539			
A-B	6			6			
A-C	506			506			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	148	542	0.272	148	0.4	9.164	A
C-AB	119	614	0.194	119	0.3	7.295	A
C-A	461			461			
A-B	5			5			
A-C	424			424			

2035 Sensitivity Test, SAT

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.16	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D30	2035 Sensitivity Test	SAT	ONE HOUR	12:15	13:45	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	631	100.000
B		✓	165	100.000
C		✓	768	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	5	626
	B	13	0	152
	C	653	115	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	8	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.41	13.67	0.7	B
C-AB	0.28	7.59	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

12:15 - 12:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	124	520	0.239	123	0.3	9.040	A
C-AB	101	595	0.169	100	0.2	7.259	A
C-A	478			478			
A-B	4			4			
A-C	471			471			

12:30 - 12:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	148	490	0.303	148	0.4	10.515	B
C-AB	130	613	0.211	129	0.3	7.436	A
C-A	561			561			
A-B	4			4			
A-C	563			563			

12:45 - 13:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	182	445	0.408	181	0.7	13.571	B
C-AB	181	657	0.276	181	0.5	7.560	A
C-A	664			664			
A-B	6			6			
A-C	689			689			

13:00 - 13:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	182	445	0.408	182	0.7	13.672	B
C-AB	181	657	0.276	181	0.5	7.588	A
C-A	664			664			
A-B	6			6			
A-C	689			689			

13:15 - 13:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	148	490	0.303	149	0.4	10.608	B
C-AB	130	614	0.211	130	0.3	7.474	A
C-A	561			561			
A-B	4			4			
A-C	563			563			

13:30 - 13:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	124	520	0.239	125	0.3	9.122	A
C-AB	101	595	0.169	101	0.2	7.301	A
C-A	478			478			
A-B	4			4			
A-C	471			471			