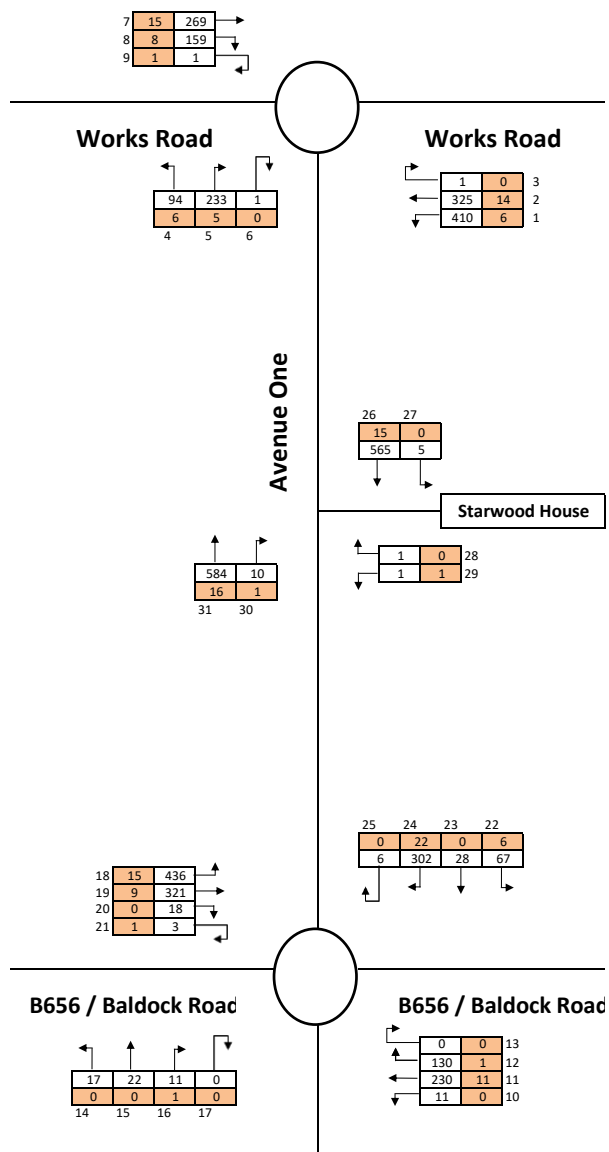


MAP OF SURVEY AREA



	All Vehicles
	HGVs

Client:

Job Title:

Starwood House, Letchworth

Drawing Title:

AM Traffic Flows (2030)

Date:

08/04/2025

Drawn By:

SS

Job No:

25034

Fig No:

T5

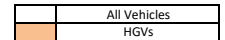
kmc
transport planning

Unit 6, The Enterprise Centre, Gwydd Street,
Cambridge, CB1 2UG

enquiries@kmcplanning.co.uk

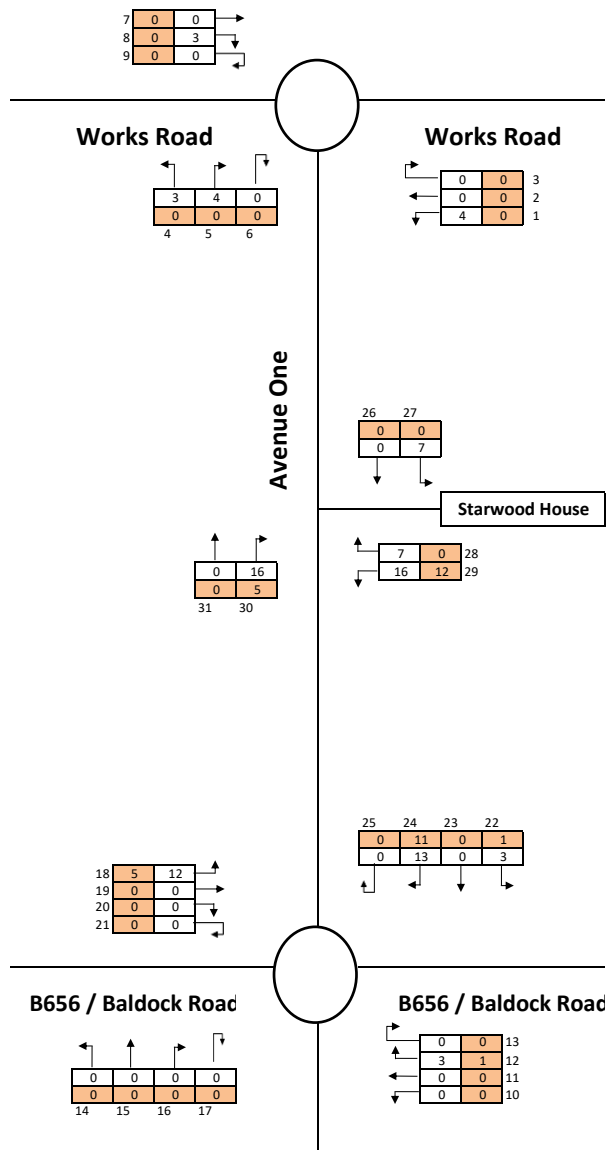
www.kmctransport.co.uk

An aerial photograph of a suburban neighborhood. The image shows a grid of streets with various houses and buildings. A large green field is visible in the bottom left corner, and a yellow field is in the bottom right corner. The Google logo is at the bottom center.



kmc
transport planning
Unit 6, Gwyddir Enterprise Centre, Gwyddir Street,
Cambridge, CB1 2LG

MAP OF SURVEY AREA



	All Vehicles
	HGVs

Client:

Job Title:

Starwood House, Letchworth

Drawing Title:

AM Forecast Development Traffic
Flows (Warehouse)

Date:

08/04/2025

Drawn By:

SS

Job No:

25034

Fig No:

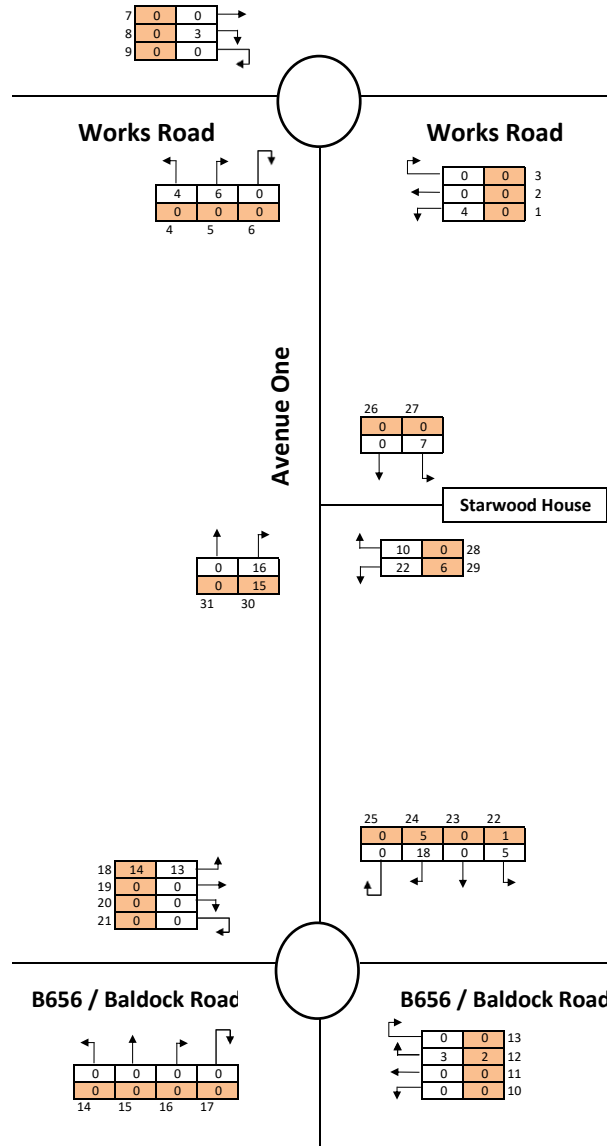
T7

kmc
transport planning

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Cambridge, CB1 2LG

enquiries@kmcplanning.co.uk
www.kmctransport.co.uk

MAP OF SURVEY AREA



	All Vehicles
	HGVs

Client:

Job Title:

Starwood House, Letchworth

Drawing Title:

PM Forecast Development Traffic
Flows (Warehouse)

Date:

08/04/2025

Drawn By:

SS

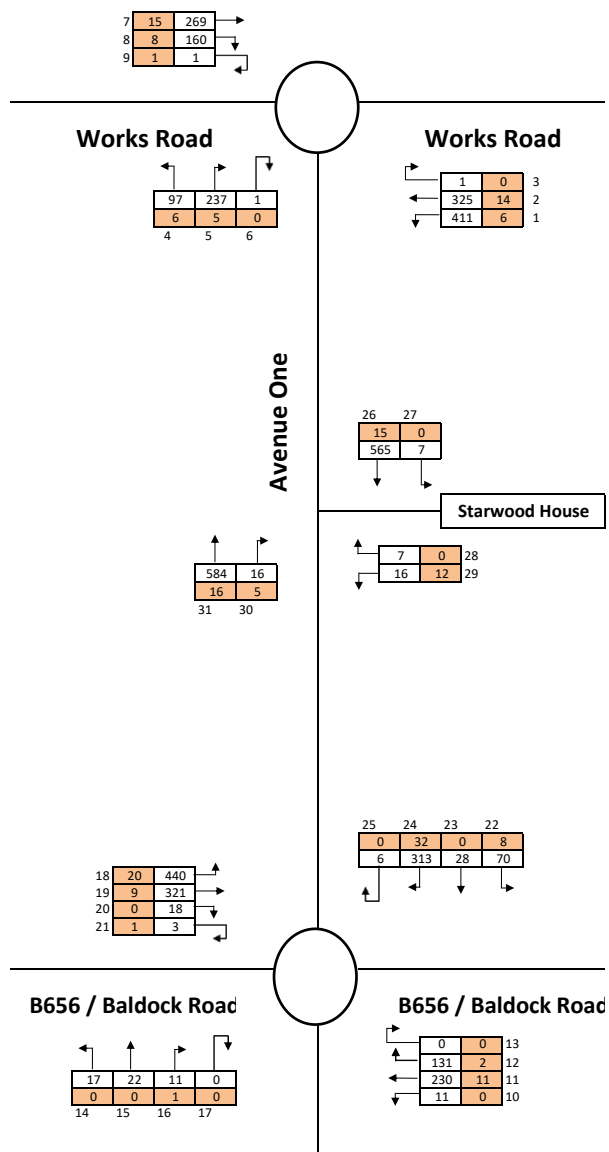
Job No:

25034

Fig No:

T8

MAP OF SURVEY AREA



	All Vehicles
	HGVs

Client:

Job Title:

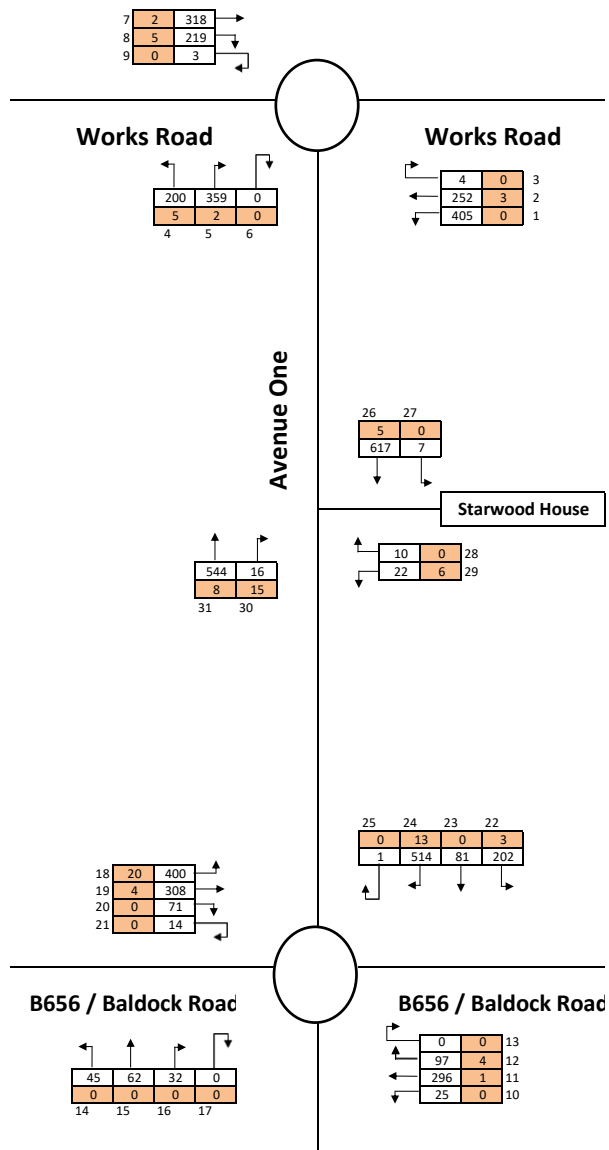
Starwood House, Letchworth

Drawing Title:
AM Traffic Flows + Development Traffic
(2030)

Date: 08/04/2025 Drawn By: SS Job No: 25034 Fig No: T9

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Cambridge, CB1 2UG
enquiries@kmcplanning.co.uk
www.kmctransport.co.uk

MAP OF SURVEY AREA



	All Vehicles
	HGVs

Client:

Job Title:

Starwood House, Letchworth

Drawing Title:

PM Traffic Flows + Development Traffic (2030)

Date: 08/04/2025

Drawn By: SS

Job No: 25034

Fig No: T10

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Unit 6, The Enterprise Centre, 100-102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 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Appendix K Junctions 10 modelling reports

Junctions 10										
ARCADY 10 - Roundabout Module										
Version: 10.1.1.1905 © Copyright TRL Software Limited, 2023										
For sales and distribution information, program advice and maintenance, contact TRL Software: +44 (0)1344 379777 software@trl.co.uk trlsoftware.com										
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution										

Filename: 25034 - Starwood House - Northern roundabout - NTP.j10

Path: C:\Users\Samuel Sizer\KMC Transport\KMC-Data - Documents\1_PROJECTS\25000\25034 Starwood House, Letchworth Garden City\Junctions

Report generation date: 24/04/2025 13:26:01

- »2025, AM
- »2025, PM
- »2030, AM
- »2030, PM
- »2030 + Growth, AM
- »2030 + Growth, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2025									
Arm 1	D1	1.9	8.88	0.65	A	D2	1.5	7.86	0.60	A
Arm 2		1.0	10.44	0.50	B		3.1	19.53	0.76	C
Arm 3		0.6	4.51	0.36	A		0.9	5.90	0.48	A
	2030									
Arm 1	D3	2.3	10.29	0.70	B	D4	1.8	8.80	0.64	A
Arm 2		1.2	11.51	0.54	B		4.2	25.59	0.82	D
Arm 3		0.7	4.74	0.38	A		1.1	6.43	0.51	A
	2030 + Growth									
Arm 1	D5	2.4	10.36	0.70	B	D6	1.8	8.97	0.64	A
Arm 2		1.2	11.80	0.55	B		4.4	26.77	0.82	D
Arm 3		0.7	4.77	0.39	A		1.1	6.51	0.52	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	09/04/2025
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LAPTOP-54KN5EA6\Samuel Sizer
Description	

Units

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

Analysis Options

Mini-roundabout model	Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
JUNCTIONS 9	5.75						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)	Run automatically
D1	2025	AM	ONE HOUR	00:00	01:30	15	✓
D2	2025	PM	ONE HOUR	00:00	01:30	15	✓
D3	2030	AM	ONE HOUR	00:00	01:30	15	✓
D4	2030	PM	ONE HOUR	00:00	01:30	15	✓
D5	2030 + Growth	AM	ONE HOUR	00:00	01:30	15	✓
D6	2030 + Growth	PM	ONE HOUR	00:00	01:30	15	✓

Analysis Set Details

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

2025, 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	Mini-roundabout		1, 2, 3	7.95	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		7.95	A

Arms

Arms

Arm	Name	Description
1	untitled	
2	untitled	
3	untitled	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1	3.02	3.02	5.92	6.9	15.49	10.69	0.0	
2	3.84	3.83	4.56	17.5	18.92	2.00	0.0	
3	3.26	3.26	5.75	8.5	20.00	20.00	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.641	915
2	0.646	876
3	0.953	1547

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

Arm Capacity Adjustments

Arm	Type	Reason	Percentage capacity adjustment (%)
1	Percentage	match Qs	150.00
2	Percentage	match Qs	110.00

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	695	100.000
2		ONE HOUR	✓	311	100.000
3		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	1	2	3	
From	1	1	386	308
	2	221	1	89
	3	255	149	1

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
	1	2	3	
From	1	0	2	4
	2	2	0	7
	3	5	5	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.65	8.88	1.9	A	656	984
2	0.50	10.44	1.0	B	295	443
3	0.36	4.51	0.6	A	391	587

Main Results for each time segment

00:00 - 00:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	538	135	120	1258	0.428	535	370	0.0	0.8	5.105	A
2	242	61	242	792	0.306	240	413	0.0	0.5	6.733	A
3	321	80	170	1385	0.232	320	312	0.0	0.3	3.550	A

00:15 - 00:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	643	161	143	1235	0.520	641	443	0.8	1.1	6.225	A
2	289	72	290	757	0.382	288	495	0.5	0.6	7.927	A
3	383	96	204	1353	0.283	383	375	0.3	0.4	3.903	A

00:30 - 00:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	787	197	175	1204	0.654	784	543	1.1	1.9	8.749	A
2	354	89	355	712	0.498	353	605	0.6	1.0	10.329	B
3	469	117	249	1310	0.358	469	458	0.4	0.6	4.500	A

00:45 - 01:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	787	197	176	1204	0.654	787	544	1.9	1.9	8.880	A
2	354	89	356	711	0.498	354	607	1.0	1.0	10.439	B
3	469	117	250	1309	0.359	469	460	0.6	0.6	4.513	A

01:00 - 01:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	643	161	144	1235	0.521	646	446	1.9	1.1	6.323	A
2	289	72	292	756	0.382	291	497	1.0	0.6	8.026	A
3	383	96	205	1351	0.284	384	377	0.6	0.4	3.919	A

01:15 - 01:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	538	135	120	1257	0.428	540	373	1.1	0.8	5.174	A
2	242	61	244	790	0.306	243	416	0.6	0.5	6.812	A
3	321	80	172	1383	0.232	321	315	0.4	0.3	3.569	A

2025, 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	Mini-roundabout		1, 2, 3	10.95	B

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		10.95	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2025	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	623	100.000
2		ONE HOUR	✓	521	100.000
3		ONE HOUR	✓	510	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1	2	3
From	1	4	380	239
	2	335	0	186
	3	302	205	3

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.60	7.86	1.5	A	574	861
2	0.76	19.53	3.1	C	486	729
3	0.48	5.90	0.9	A	475	712

Main Results for each time segment

00:00 - 00:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	471	118	159	1220	0.386	468	484	0.0	0.6	4.793	A
2	399	100	186	831	0.480	395	441	0.0	0.9	8.328	A
3	389	97	255	1304	0.299	388	326	0.0	0.4	3.977	A

00:15 - 00:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	562	141	190	1190	0.473	561	580	0.6	0.9	5.740	A
2	476	119	223	805	0.592	474	529	0.9	1.4	10.997	B
3	465	116	306	1255	0.370	464	391	0.4	0.6	4.611	A

00:30 - 00:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	689	172	233	1149	0.599	686	708	0.9	1.5	7.774	A
2	583	146	273	770	0.758	577	647	1.4	2.9	18.456	C
3	569	142	373	1192	0.478	568	477	0.6	0.9	5.841	A

00:45 - 01:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	689	172	234	1148	0.600	689	712	1.5	1.5	7.858	A
2	583	146	273	769	0.758	583	649	2.9	3.1	19.532	C
3	569	142	377	1188	0.479	569	480	0.9	0.9	5.896	A

01:00 - 01:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	562	141	191	1189	0.473	565	587	1.5	0.9	5.810	A
2	476	119	224	804	0.592	483	532	3.1	1.5	11.591	B
3	465	116	312	1250	0.372	466	395	0.9	0.6	4.664	A

01:15 - 01:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	471	118	160	1219	0.386	472	489	0.9	0.6	4.846	A
2	399	100	187	830	0.480	401	444	1.5	1.0	8.578	A
3	389	97	259	1300	0.299	390	329	0.6	0.4	4.014	A

2030, 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	Mini-roundabout		1, 2, 3	8.94	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		8.94	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2030	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	736	100.000
2		ONE HOUR	✓	328	100.000
3		ONE HOUR	✓	429	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1	2	3
From	1	1	410	325
	2	233	1	94
	3	269	159	1

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		1	2	3
From	1	0	2	4
	2	2	0	7
	3	5	5	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.70	10.29	2.3	B	695	1042
2	0.54	11.51	1.2	B	311	467
3	0.38	4.74	0.7	A	414	621

Main Results for each time segment

00:00 - 00:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	570	143	127	1250	0.456	567	390	0.0	0.9	5.391	A
2	255	64	255	782	0.327	253	439	0.0	0.5	7.016	A
3	340	85	179	1377	0.247	338	330	0.0	0.3	3.644	A

00:15 - 00:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	681	170	153	1226	0.555	679	468	0.9	1.3	6.751	A
2	305	76	306	746	0.409	304	526	0.5	0.7	8.405	A
3	406	101	215	1342	0.302	405	395	0.3	0.5	4.040	A

00:30 - 00:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	834	208	187	1193	0.699	830	572	1.3	2.3	10.069	B
2	374	93	374	698	0.535	372	643	0.7	1.2	11.342	B
3	497	124	263	1297	0.383	496	483	0.5	0.6	4.725	A

00:45 - 01:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	834	208	187	1193	0.699	834	574	2.3	2.3	10.295	B
2	374	93	375	697	0.536	373	645	1.2	1.2	11.506	B
3	497	124	264	1296	0.384	497	485	0.6	0.7	4.741	A

01:00 - 01:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	681	170	153	1226	0.555	685	470	2.3	1.3	6.902	A
2	305	76	308	744	0.410	307	530	1.2	0.7	8.542	A
3	406	101	217	1341	0.303	407	398	0.7	0.5	4.059	A

01:15 - 01:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	570	143	128	1250	0.456	572	393	1.3	0.9	5.477	A
2	255	64	258	781	0.327	256	442	0.7	0.5	7.112	A
3	340	85	181	1375	0.247	340	333	0.5	0.3	3.662	A

2030, 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	Mini-roundabout		1, 2, 3	13.42	B

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		13.42	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2030	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	657	100.000
2		ONE HOUR	✓	553	100.000
3		ONE HOUR	✓	537	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	1	2	3	
From	1	4	401	252
	2	355	0	198
	3	318	216	3

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.64	8.80	1.8	A	605	908
2	0.82	25.59	4.2	D	516	774
3	0.51	6.43	1.1	A	500	749

Main Results for each time segment

00:00 - 00:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	497	124	167	1212	0.410	494	511	0.0	0.7	5.013	A
2	423	106	196	824	0.514	419	465	0.0	1.1	8.948	A
3	410	102	270	1290	0.318	408	345	0.0	0.5	4.132	A

00:15 - 00:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	593	148	200	1180	0.502	592	613	0.7	1.0	6.130	A
2	506	126	235	797	0.635	503	557	1.1	1.7	12.351	B
3	489	122	324	1238	0.395	489	413	0.5	0.7	4.865	A

00:30 - 00:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	726	182	245	1137	0.639	723	746	1.0	1.7	8.672	A
2	619	155	287	760	0.815	610	682	1.7	4.0	23.188	C
3	600	150	393	1172	0.511	598	504	0.7	1.0	6.339	A

00:45 - 01:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	726	182	246	1136	0.639	726	752	1.7	1.8	8.801	A
2	619	155	288	759	0.816	618	684	4.0	4.2	25.592	D
3	600	150	399	1167	0.514	599	508	1.0	1.1	6.426	A

01:00 - 01:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	593	148	201	1179	0.503	596	622	1.8	1.0	6.227	A
2	506	126	236	796	0.636	515	561	4.2	1.8	13.456	B
3	489	122	332	1231	0.398	491	419	1.1	0.7	4.945	A

01:15 - 01:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	497	124	168	1211	0.410	498	517	1.0	0.7	5.077	A
2	423	106	197	823	0.514	426	469	1.8	1.1	9.294	A
3	410	102	275	1285	0.319	411	349	0.7	0.5	4.177	A

2030 + Growth, 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	Mini-roundabout		1, 2, 3	9.06	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		9.06	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2030 + Growth	AM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	737	100.000
2		ONE HOUR	✓	335	100.000
3		ONE HOUR	✓	430	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1	2	3
From	1	1	411	325
	2	237	1	97
	3	269	160	1

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		1	2	3
From	1	0	2	4
	2	2	0	7
	3	5	5	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.70	10.36	2.4	B	696	1044
2	0.55	11.80	1.2	B	318	477
3	0.39	4.77	0.7	A	415	623

Main Results for each time segment

00:00 - 00:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	571	143	128	1249	0.457	567	393	0.0	0.9	5.403	A
2	261	65	255	782	0.334	259	440	0.0	0.5	7.089	A
3	341	85	182	1374	0.248	339	332	0.0	0.3	3.657	A

00:15 - 00:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	682	170	154	1225	0.556	680	471	0.9	1.3	6.773	A
2	312	78	306	746	0.417	311	528	0.5	0.7	8.532	A
3	407	102	219	1339	0.304	406	398	0.3	0.5	4.059	A

00:30 - 00:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	835	209	188	1192	0.700	831	576	1.3	2.3	10.128	B
2	382	95	374	698	0.547	380	645	0.7	1.2	11.619	B
3	498	125	267	1293	0.385	497	486	0.5	0.7	4.757	A

00:45 - 01:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	835	209	188	1192	0.700	835	578	2.3	2.4	10.357	B
2	382	95	375	697	0.548	381	648	1.2	1.2	11.801	B
3	498	125	268	1292	0.386	498	489	0.7	0.7	4.774	A

01:00 - 01:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	682	170	154	1225	0.557	686	474	2.4	1.3	6.927	A
2	312	78	308	744	0.418	313	531	1.2	0.8	8.678	A
3	407	102	220	1337	0.304	408	401	0.7	0.5	4.079	A

01:15 - 01:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	571	143	129	1249	0.457	573	396	1.3	0.9	5.492	A
2	261	65	258	781	0.334	262	444	0.8	0.5	7.193	A
3	341	85	184	1372	0.248	341	335	0.5	0.3	3.679	A

2030 + Growth, 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	Mini-roundabout		1, 2, 3	13.90	B

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		13.90	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2030 + Growth	PM	ONE HOUR	00:00	01:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	661	100.000
2		ONE HOUR	✓	559	100.000
3		ONE HOUR	✓	540	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1	2	3
From	1	4	405	252
	2	359	0	200
	3	318	219	3

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.64	8.97	1.8	A	609	913
2	0.82	26.77	4.4	D	522	783
3	0.52	6.51	1.1	A	502	754

Main Results for each time segment

00:00 - 00:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	500	125	170	1210	0.413	497	514	0.0	0.7	5.050	A
2	428	107	196	824	0.519	424	471	0.0	1.1	9.046	A
3	412	103	273	1287	0.320	410	346	0.0	0.5	4.157	A

00:15 - 00:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	596	149	203	1177	0.507	595	616	0.7	1.0	6.193	A
2	511	128	235	797	0.641	508	564	1.1	1.8	12.573	B
3	492	123	328	1235	0.399	491	415	0.5	0.7	4.905	A

00:30 - 00:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	731	183	249	1134	0.644	728	750	1.0	1.8	8.828	A
2	626	157	287	760	0.824	616	689	1.8	4.1	24.058	C
3	603	151	397	1168	0.516	601	506	0.7	1.1	6.418	A

00:45 - 01:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	731	183	249	1133	0.645	730	757	1.8	1.8	8.968	A
2	626	157	288	759	0.825	625	692	4.1	4.4	26.771	D
3	603	151	403	1163	0.518	603	510	1.1	1.1	6.513	A

01:00 - 01:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	596	149	204	1176	0.507	599	626	1.8	1.0	6.294	A
2	511	128	236	796	0.642	521	567	4.4	1.9	13.798	B
3	492	123	336	1227	0.401	494	422	1.1	0.7	4.991	A

01:15 - 01:30

Am	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	500	125	171	1209	0.413	501	520	1.0	0.7	5.117	A
2	428	107	197	823	0.520	431	474	1.9	1.1	9.410	A
3	412	103	278	1282	0.321	413	351	0.7	0.5	4.203	A

Junctions 10									
ARCADY 10 - Roundabout Module									
Version: 10.1.1.1905 © Copyright TRL Software Limited, 2023									
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Filename: 25034 - Starwood House - Southern roundabout V2.j10

Path: C:\Users\Samuel Sizer\KMC Transport\KMC-Data - Documents\1_PROJECTS\25000\25034 Starwood House, Letchworth Garden City\Junctions

Report generation date: 24/04/2025 14:55:07

- »2025, AM
- »2025, PM
- »2030 Growth, AM
- »2030 Growth, PM
- »2030 Growth + Dev, AM
- »2030 Growth + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2025									
Arm 1	D1	0.3	3.06	0.25	A	D2	0.5	3.74	0.31	A
Arm 2		0.1	5.39	0.07	A		0.3	7.59	0.23	A
Arm 3		0.7	3.21	0.42	A		0.7	3.20	0.42	A
Arm 4		0.5	3.90	0.31	A		1.4	6.31	0.59	A
	2030 Growth									
Arm 1	D3	0.4	3.16	0.26	A	D4	0.5	3.97	0.33	A
Arm 2		0.1	5.62	0.08	A		0.3	8.27	0.26	A
Arm 3		0.8	3.43	0.45	A		0.8	3.30	0.44	A
Arm 4		0.5	4.06	0.33	A		1.7	7.18	0.63	A
	2030 Growth + Dev									
Arm 1	D5	0.4	3.21	0.27	A	D6	0.5	4.07	0.34	A
Arm 2		0.1	5.73	0.08	A		0.4	8.51	0.27	A
Arm 3		0.9	3.45	0.45	A		0.9	3.51	0.46	A
Arm 4		0.6	4.28	0.35	A		1.8	7.55	0.65	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	09/04/2025
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LAPTOP-54KN5EA6\Samuel Sizer
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	mph	Veh	PCU	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	2025	AM	ONE HOUR	07:45	09:15	15
D2	2025	PM	ONE HOUR	16:45	18:15	15
D3	2030 Growth	AM	ONE HOUR	07:45	09:15	15
D4	2030 Growth	PM	ONE HOUR	16:45	18:15	15
D5	2030 Growth + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2030 Growth + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2025, 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	3.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.42	A

Arms

Arms

Arm	Name	Description	No give-way line
1	untitled		
2	untitled		
3	untitled		
4	untitled		

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
1	5.49	6.98	3.3	32.5	30.0	28.0		
2	3.42	3.86	9.7	19.9	30.0	36.8		
3	6.89	7.24	0.8	16.1	30.0	29.0		
4	4.33	6.98	7.8	15.7	30.0	28.4		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.706	1895
2	0.533	1125
3	0.740	2113
4	0.652	1684

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	2025	AM	ONE HOUR	07:45	09:15	15