

APPENDIX K. Junction Assessment Outputs

<h1>Junctions 10</h1>
<h2>ARCADY 10 - Roundabout Module</h2>
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Filename: A325 - Forest Lodge - Birdworld - 3-arm.j10

Path: T:\Projects\16000 Series\16329ITB - Forest Lodge Garden Centre and Birdworld - Farnham\Tech\Junction Assessments\Junctions 10

Report generation date: 07/12/2023 16:56:21

-
- »2022, AM
 - »2022, PM
 - »2022, Weekend
 - »2022, Bank Holiday
 - »2026 + Dev (90th %tile Weekday), AM
 - »2026 + Dev (90th %tile Weekday), PM
 - »2026 + Dev, AM
 - »2026 + Dev, PM
 - »2026 + Dev (90th %tile Weekend), Weekend
 - »2026 + Dev, Weekend
 - »2026 + Dev, Bank Holiday
 - »2031 + Dev (90th %tile Weekday), AM
 - »2031 + Dev (90th %tile Weekday), PM
 - »2031 + Dev, AM
 - »2031 + Dev, PM
 - »2031 + Dev (90th %tile Weekend), Weekend
 - »2031 + Dev, Weekend
 - »2031 + Dev, Bank Holiday

Summary of junction performance

	AM				PM				Weekend				Bank Holiday			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2022																
1 - A325 (N)	0.5	2.82	0.30	A	0.8	3.40	0.43	A	0.8	3.41	0.43	A	0.8	3.43	0.43	A
2 - A325 (S)	1.0	3.62	0.48	A	0.6	2.90	0.36	A	0.5	2.78	0.33	A	0.8	3.38	0.44	A
3 - Forest Lodge & Birdworld Access	0.0	0.00	0.00	A	0.0	2.48	0.04	A	0.1	2.52	0.11	A	0.1	2.67	0.11	A
2026 + Dev (90th %tile Weekday)																
1 - A325 (N)	0.5	2.94	0.33	A	0.9	3.71	0.47	A								
2 - A325 (S)	1.1	3.91	0.52	A	0.6	3.03	0.38	A								
3 - Forest Lodge & Birdworld Access	0.0	2.75	0.01	A	0.1	2.72	0.11	A								
2026 + Dev																
1 - A325 (N)	0.5	2.89	0.32	A	0.9	3.58	0.46	A	1.0	3.99	0.50	A	1.1	4.12	0.52	A
2 - A325 (S)	1.1	3.83	0.51	A	0.6	3.00	0.38	A	0.6	3.11	0.38	A	1.2	4.33	0.55	A
3 - Forest Lodge & Birdworld Access	0.0	0.00	0.00	A	0.1	2.60	0.07	A	0.3	2.86	0.21	A	0.2	2.99	0.19	A
2026 + Dev (90th %tile Weekend)																
1 - A325 (N)									1.0	4.04	0.50	A				
2 - A325 (S)									0.6	3.14	0.39	A				
3 - Forest Lodge & Birdworld Access									0.3	2.90	0.22	A				
2031 + Dev (90th %tile Weekday)																
1 - A325 (N)	0.5	2.99	0.34	A	1.0	3.84	0.49	A								
2 - A325 (S)	1.2	4.07	0.53	A	0.7	3.10	0.40	A								
3 - Forest Lodge & Birdworld Access	0.0	2.80	0.01	A	0.1	2.76	0.11	A								
2031 + Dev																
1 - A325 (N)	0.5	2.94	0.33	A	0.9	3.70	0.48	A	1.1	4.14	0.52	A	1.2	4.28	0.54	A
2 - A325 (S)	1.2	3.98	0.53	A	0.7	3.07	0.39	A	0.7	3.18	0.40	A	1.3	4.51	0.56	A
3 - Forest Lodge & Birdworld Access	0.0	0.00	0.00	A	0.1	2.64	0.07	A	0.3	2.90	0.21	A	0.2	3.05	0.20	A
2031 + Dev (90th %tile Weekend)																
1 - A325 (N)									1.1	4.20	0.52	A				
2 - A325 (S)									0.7	3.21	0.40	A				
3 - Forest Lodge & Birdworld Access									0.3	2.94	0.22	A				

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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	A325/ Forest Lodge/ Birdworld
Location	
Site number	
Date	07/12/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	ITB16329
Enumerator	I-TRANSPORT\londonhotdesk
Description	3-Arm Roundabout

Units

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

Analysis Options

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 iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75	✓					0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022	AM	Observed Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓
D2	2022	PM	Observed Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓
D3	2022	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓
D4	2022	Bank Holiday	Observed Saturday PM Peak Hour	ONE HOUR	11:00	12:30	15	✓
D5	2026 + Dev (90th %tile Weekday)	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓
D6	2026 + Dev (90th %tile Weekday)	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓
D7	2026 + Dev	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓
D8	2026 + Dev	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓
D9	2026 + Dev (90th %tile Weekend)	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓
D10	2026 + Dev	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓
D11	2026 + Dev	Bank Holiday	Observed Saturday PM Peak Hour	ONE HOUR	11:00	12:30	15	✓
D12	2031 + Dev (90th %tile Weekday)	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓
D13	2031 + Dev (90th %tile Weekday)	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓
D14	2031 + Dev	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓
D15	2031 + Dev	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓
D16	2031 + Dev (90th %tile Weekend)	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓
D17	2031 + Dev	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓
D18	2031 + Dev	Bank Holiday	Observed Saturday PM Peak Hour	ONE HOUR	11:00	12:30	15	✓

Analysis Set Details

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

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.32	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.32	A

Arms

Arms

Arm	Name	Description	No give-way line
1	A325 (N)		
2	A325 (S)		
3	Forest Lodge & Birdworld Access		

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 - A325 (N)	3.61	8.10	23.0	25.0	44.0	35.0		
2 - A325 (S)	3.66	8.80	18.7	36.0	44.0	25.0		
3 - Forest Lodge & Birdworld Access	6.00	7.70	4.6	20.0	44.0	39.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1 - A325 (N)	0.671	1916
2 - A325 (S)	0.704	2012
3 - Forest Lodge & Birdworld Access	0.679	1990

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022	AM	Observed Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	525	100.000
2 - A325 (S)		ONE HOUR	✓	878	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	1	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	508	17
2 - A325 (S)	866	0	12
3 - Forest Lodge & Birdworld Access	1	0	0

Vehicle Mix

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

Heavy Vehicle %

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	5	0
2 - A325 (S)	4	0	0
3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.30	2.82	0.5	1.8	A	482	723
2 - A325 (S)	0.48	3.62	1.0	1.5	A	806	1209
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

07:00 - 07:15

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 - A325 (N)	395	99	0	1916	0.206	394	650	0.0	0.3	2.479	A
2 - A325 (S)	661	165	13	2003	0.330	659	381	0.0	0.5	2.780	A
3 - Forest Lodge & Birdworld Access	0	0	650	1549	0.000	0	22	0.0	0.0	0.000	A

07:15 - 07:30

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 - A325 (N)	472	118	0	1916	0.246	472	778	0.3	0.3	2.613	A
2 - A325 (S)	789	197	15	2001	0.394	789	456	0.5	0.7	3.083	A
3 - Forest Lodge & Birdworld Access	0	0	778	1462	0.000	0	26	0.0	0.0	0.000	A

07:30 - 07:45

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 - A325 (N)	578	145	0	1916	0.302	578	952	0.3	0.5	2.820	A
2 - A325 (S)	967	242	19	1999	0.484	966	559	0.7	1.0	3.618	A
3 - Forest Lodge & Birdworld Access	0	0	952	1344	0.000	0	32	0.0	0.0	0.000	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	578	145	0	1916	0.302	578	953	0.5	0.5	2.820	A
2 - A325 (S)	967	242	19	1999	0.484	967	559	1.0	1.0	3.623	A
3 - Forest Lodge & Birdworld Access	0	0	953	1343	0.000	0	32	0.0	0.0	0.000	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	472	118	0	1916	0.246	472	780	0.5	0.3	2.614	A
2 - A325 (S)	789	197	15	2001	0.394	790	457	1.0	0.7	3.092	A
3 - Forest Lodge & Birdworld Access	0	0	780	1461	0.000	0	26	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	395	99	0	1916	0.206	396	653	0.3	0.3	2.484	A
2 - A325 (S)	661	165	13	2003	0.330	662	383	0.7	0.5	2.790	A
3 - Forest Lodge & Birdworld Access	0	0	653	1547	0.000	0	22	0.0	0.0	0.000	A

Queue Variation Results for each time segment

07:00 - 07:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.27	0.00	0.00	0.27	0.27			N/A	N/A
2 - A325 (S)	0.51	0.00	0.00	0.51	0.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:15 - 07:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.34	0.00	0.00	0.34	0.34			N/A	N/A
2 - A325 (S)	0.67	0.10	0.85	1.42	1.49			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:30 - 07:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.45	0.03	0.26	0.48	0.50			N/A	N/A
2 - A325 (S)	0.97	0.03	0.26	0.97	0.97			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.45	0.03	0.33	1.43	1.78			N/A	N/A
2 - A325 (S)	0.97	0.03	0.28	0.97	1.08			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.34	0.00	0.00	0.34	0.34			N/A	N/A
2 - A325 (S)	0.68	0.57	1.04	1.46	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.27	0.00	0.00	0.27	0.27			N/A	N/A
2 - A325 (S)	0.51	0.00	0.00	0.51	0.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.14	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.14	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022	PM	Observed Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	744	100.000
2 - A325 (S)		ONE HOUR	✓	651	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	55	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	726	18
2 - A325 (S)	641	0	10
3 - Forest Lodge & Birdworld Access	33	22	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	2	0
	2 - A325 (S)	3	0	10
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.43	3.40	0.8	2.2	A	683	1024
2 - A325 (S)	0.36	2.90	0.6	2.7	A	597	896
3 - Forest Lodge & Birdworld Access	0.04	2.48	0.0	0.5	A	50	76

Main Results for each time segment

16:15 - 16:30

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 - A325 (N)	560	140	17	1905	0.294	558	506	0.0	0.4	2.722	A
2 - A325 (S)	490	123	14	2003	0.245	489	561	0.0	0.3	2.449	A
3 - Forest Lodge & Birdworld Access	41	10	481	1663	0.025	41	21	0.0	0.0	2.219	A

16:30 - 16:45

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 - A325 (N)	669	167	20	1903	0.352	668	606	0.4	0.5	2.971	A
2 - A325 (S)	585	146	16	2001	0.292	585	672	0.3	0.4	2.621	A
3 - Forest Lodge & Birdworld Access	49	12	576	1599	0.031	49	25	0.0	0.0	2.322	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	819	205	24	1900	0.431	818	741	0.5	0.8	3.390	A
2 - A325 (S)	717	179	20	1998	0.359	716	823	0.4	0.6	2.893	A
3 - Forest Lodge & Birdworld Access	61	15	705	1511	0.040	61	31	0.0	0.0	2.481	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	819	205	24	1900	0.431	819	742	0.8	0.8	3.396	A
2 - A325 (S)	717	179	20	1998	0.359	717	824	0.6	0.6	2.895	A
3 - Forest Lodge & Birdworld Access	61	15	706	1511	0.040	61	31	0.0	0.0	2.481	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	669	167	20	1903	0.352	670	607	0.8	0.6	2.980	A
2 - A325 (S)	585	146	16	2001	0.293	586	673	0.6	0.4	2.625	A
3 - Forest Lodge & Birdworld Access	49	12	577	1598	0.031	49	25	0.0	0.0	2.325	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	560	140	17	1905	0.294	561	508	0.6	0.4	2.731	A
2 - A325 (S)	490	123	14	2003	0.245	490	564	0.4	0.3	2.456	A
3 - Forest Lodge & Birdworld Access	41	10	483	1662	0.025	41	21	0.0	0.0	2.222	A

Queue Variation Results for each time segment

16:15 - 16:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.42	0.00	0.00	0.42	0.42			N/A	N/A
2 - A325 (S)	0.33	0.00	0.00	0.33	0.33			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.03	0.00	0.00	0.03	0.03			N/A	N/A

16:30 - 16:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.55	0.07	0.73	1.37	1.45			N/A	N/A
2 - A325 (S)	0.42	0.00	0.00	0.42	0.42			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.03	0.03	0.25	0.45	0.48			N/A	N/A

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.77	0.03	0.26	0.77	0.77			N/A	N/A
2 - A325 (S)	0.57	0.03	0.26	0.57	0.57			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.04	0.03	0.25	0.45	0.48			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.77	0.03	0.28	0.77	2.19			N/A	N/A
2 - A325 (S)	0.58	0.03	0.30	1.35	2.69			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.04	0.00	0.00	0.04	0.04			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.56	0.56	1.02	1.43	1.48			N/A	N/A
2 - A325 (S)	0.43	0.00	0.00	0.43	0.43			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.03	0.00	0.00	0.03	0.03			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.43	0.00	0.00	0.43	0.43			N/A	N/A
2 - A325 (S)	0.34	0.00	0.00	0.34	0.34			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.03	0.00	0.00	0.03	0.03			N/A	N/A

2022, Weekend

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.06	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2022	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	724	100.000
2 - A325 (S)		ONE HOUR	✓	584	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	162	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	644	80
	2 - A325 (S)	517	0	67
	3 - Forest Lodge & Birdworld Access	87	75	0

Vehicle Mix

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

Heavy Vehicle %

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	1	0
2 - A325 (S)	1	0	0
3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.43	3.41	0.8	2.3	A	664	997
2 - A325 (S)	0.33	2.78	0.5	2.2	A	536	804
3 - Forest Lodge & Birdworld Access	0.11	2.52	0.1	0.5	A	149	223

Main Results for each time segment

12:45 - 13:00

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 - A325 (N)	545	136	56	1878	0.290	543	454	0.0	0.4	2.717	A
2 - A325 (S)	440	110	60	1970	0.223	439	540	0.0	0.3	2.371	A
3 - Forest Lodge & Birdworld Access	122	30	388	1726	0.071	122	110	0.0	0.1	2.243	A

13:00 - 13:15

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 - A325 (N)	651	163	67	1871	0.348	650	543	0.4	0.5	2.974	A
2 - A325 (S)	525	131	72	1962	0.268	525	646	0.3	0.4	2.527	A
3 - Forest Lodge & Birdworld Access	146	36	464	1675	0.087	146	132	0.1	0.1	2.354	A

13:15 - 13:30

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 - A325 (N)	797	199	83	1860	0.428	796	665	0.5	0.8	3.409	A
2 - A325 (S)	643	161	88	1950	0.330	642	791	0.4	0.5	2.777	A
3 - Forest Lodge & Birdworld Access	178	45	569	1604	0.111	178	162	0.1	0.1	2.524	A

13:30 - 13:45

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 - A325 (N)	797	199	83	1860	0.428	797	665	0.8	0.8	3.414	A
2 - A325 (S)	643	161	88	1950	0.330	643	792	0.5	0.5	2.777	A
3 - Forest Lodge & Birdworld Access	178	45	569	1604	0.111	178	162	0.1	0.1	2.525	A

13:45 - 14:00

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 - A325 (N)	651	163	67	1871	0.348	652	543	0.8	0.5	2.981	A
2 - A325 (S)	525	131	72	1962	0.268	526	647	0.5	0.4	2.531	A
3 - Forest Lodge & Birdworld Access	146	36	465	1674	0.087	146	132	0.1	0.1	2.355	A

14:00 - 14:15

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 - A325 (N)	545	136	56	1878	0.290	546	455	0.5	0.4	2.726	A
2 - A325 (S)	440	110	60	1970	0.223	440	542	0.4	0.3	2.375	A
3 - Forest Lodge & Birdworld Access	122	30	390	1726	0.071	122	111	0.1	0.1	2.244	A

Queue Variation Results for each time segment

12:45 - 13:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.41	0.00	0.00	0.41	0.41			N/A	N/A
2 - A325 (S)	0.29	0.00	0.00	0.29	0.29			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

13:00 - 13:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.54	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.09	0.03	0.25	0.45	0.48			N/A	N/A

13:15 - 13:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.75	0.03	0.26	0.75	0.75			N/A	N/A
2 - A325 (S)	0.49	0.03	0.25	0.49	0.49			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.12	0.03	0.26	0.46	0.49			N/A	N/A

13:30 - 13:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.75	0.03	0.28	0.75	2.27			N/A	N/A
2 - A325 (S)	0.50	0.03	0.31	1.42	2.19			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.12	0.00	0.00	0.12	0.12			N/A	N/A

13:45 - 14:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.54	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.10	0.00	0.00	0.10	0.10			N/A	N/A

14:00 - 14:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.41	0.00	0.00	0.41	0.41			N/A	N/A
2 - A325 (S)	0.29	0.00	0.00	0.29	0.29			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

2022, Bank Holiday

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.34	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.34	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2022	Bank Holiday	Observed Saturday PM Peak Hour	ONE HOUR	11:00	12:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	735	100.000
2 - A325 (S)		ONE HOUR	✓	772	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	145	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	622	113
2 - A325 (S)	638	0	134
3 - Forest Lodge & Birdworld Access	83	62	0

Vehicle Mix

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

Heavy Vehicle %

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	1	1
	2 - A325 (S)	1	0	1
	3 - Forest Lodge & Birdworld Access	1	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.43	3.43	0.8	2.2	A	674	1012
2 - A325 (S)	0.44	3.38	0.8	2.0	A	708	1063
3 - Forest Lodge & Birdworld Access	0.11	2.67	0.1	0.5	A	133	200

Main Results for each time segment

11:00 - 11:15

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 - A325 (N)	553	138	47	1885	0.294	552	541	0.0	0.4	2.724	A
2 - A325 (S)	581	145	85	1953	0.298	579	513	0.0	0.4	2.644	A
3 - Forest Lodge & Birdworld Access	109	27	479	1665	0.066	109	185	0.0	0.1	2.326	A

11:15 - 11:30

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 - A325 (N)	661	165	56	1878	0.352	660	648	0.4	0.5	2.982	A
2 - A325 (S)	694	174	102	1941	0.358	693	614	0.4	0.6	2.913	A
3 - Forest Lodge & Birdworld Access	130	33	573	1601	0.081	130	222	0.1	0.1	2.461	A

11:30 - 11:45

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 - A325 (N)	809	202	68	1870	0.433	808	793	0.5	0.8	3.421	A
2 - A325 (S)	850	212	124	1925	0.442	849	752	0.6	0.8	3.376	A
3 - Forest Lodge & Birdworld Access	160	40	702	1514	0.105	160	272	0.1	0.1	2.673	A

11:45 - 12:00

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 - A325 (N)	809	202	68	1870	0.433	809	794	0.8	0.8	3.426	A
2 - A325 (S)	850	212	124	1925	0.442	850	753	0.8	0.8	3.382	A
3 - Forest Lodge & Birdworld Access	160	40	702	1513	0.106	160	272	0.1	0.1	2.674	A

12:00 - 12:15

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 - A325 (N)	661	165	56	1878	0.352	662	649	0.8	0.6	2.991	A
2 - A325 (S)	694	174	102	1941	0.358	695	616	0.8	0.6	2.922	A
3 - Forest Lodge & Birdworld Access	130	33	574	1600	0.081	130	222	0.1	0.1	2.463	A

12:15 - 12:30

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 - A325 (N)	553	138	47	1885	0.294	554	543	0.6	0.4	2.732	A
2 - A325 (S)	581	145	85	1952	0.298	582	515	0.6	0.4	2.653	A
3 - Forest Lodge & Birdworld Access	109	27	481	1664	0.066	109	186	0.1	0.1	2.330	A

Queue Variation Results for each time segment

11:00 - 11:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.42	0.00	0.00	0.42	0.42			N/A	N/A
2 - A325 (S)	0.43	0.00	0.00	0.43	0.43			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.07	0.00	0.00	0.07	0.07			N/A	N/A

11:15 - 11:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.55	0.07	0.73	1.36	1.44			N/A	N/A
2 - A325 (S)	0.56	0.08	0.76	1.36	1.44			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.09	0.03	0.26	0.47	0.50			N/A	N/A

11:30 - 11:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.77	0.03	0.26	0.77	0.77			N/A	N/A
2 - A325 (S)	0.79	0.03	0.26	0.79	0.79			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.12	0.03	0.26	0.47	0.49			N/A	N/A

11:45 - 12:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.77	0.03	0.28	0.77	2.18			N/A	N/A
2 - A325 (S)	0.80	0.03	0.28	0.80	2.01			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.12	0.00	0.00	0.12	0.12			N/A	N/A

12:00 - 12:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.55	0.55	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.57	0.56	1.01	1.41	1.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.09	0.00	0.00	0.09	0.09			N/A	N/A

12:15 - 12:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.42	0.00	0.00	0.42	0.42			N/A	N/A
2 - A325 (S)	0.43	0.00	0.00	0.43	0.43			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.07	0.00	0.00	0.07	0.07			N/A	N/A

2026 + Dev (90th %tile Weekday), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2026 + Dev (90th %tile Weekday)	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	578	100.000
2 - A325 (S)		ONE HOUR	✓	923	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	9	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	526	52
	2 - A325 (S)	896	0	27
	3 - Forest Lodge & Birdworld Access	9	0	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	5	0
	2 - A325 (S)	4	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.33	2.94	0.5	2.3	A	530	796
2 - A325 (S)	0.52	3.91	1.1	1.5	A	847	1270
3 - Forest Lodge & Birdworld Access	0.01	2.75	0.0	0.5	A	8	12

Main Results for each time segment

07:00 - 07:15

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 - A325 (N)	435	109	0	1916	0.227	434	679	0.0	0.3	2.536	A
2 - A325 (S)	695	174	39	1985	0.350	693	395	0.0	0.6	2.889	A
3 - Forest Lodge & Birdworld Access	7	2	672	1534	0.004	7	59	0.0	0.0	2.357	A

07:15 - 07:30

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 - A325 (N)	520	130	0	1916	0.271	519	813	0.3	0.4	2.694	A
2 - A325 (S)	830	207	47	1979	0.419	829	473	0.6	0.7	3.249	A
3 - Forest Lodge & Birdworld Access	8	2	805	1444	0.006	8	71	0.0	0.0	2.507	A

07:30 - 07:45

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 - A325 (N)	636	159	0	1916	0.332	636	995	0.4	0.5	2.938	A
2 - A325 (S)	1016	254	57	1972	0.515	1015	579	0.7	1.1	3.901	A
3 - Forest Lodge & Birdworld Access	10	2	985	1321	0.008	10	87	0.0	0.0	2.744	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	636	159	0	1916	0.332	636	996	0.5	0.5	2.940	A
2 - A325 (S)	1016	254	57	1972	0.515	1016	579	1.1	1.1	3.912	A
3 - Forest Lodge & Birdworld Access	10	2	986	1320	0.008	10	87	0.0	0.0	2.746	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	520	130	0	1916	0.271	520	815	0.5	0.4	2.696	A
2 - A325 (S)	830	207	47	1979	0.419	831	473	1.1	0.8	3.262	A
3 - Forest Lodge & Birdworld Access	8	2	807	1442	0.006	8	71	0.0	0.0	2.509	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	435	109	0	1916	0.227	435	682	0.4	0.3	2.542	A
2 - A325 (S)	695	174	39	1985	0.350	696	396	0.8	0.6	2.902	A
3 - Forest Lodge & Birdworld Access	7	2	675	1532	0.004	7	60	0.0	0.0	2.362	A

Queue Variation Results for each time segment

07:00 - 07:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.31	0.00	0.00	0.31	0.31			N/A	N/A
2 - A325 (S)	0.56	0.56	1.04	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:15 - 07:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.39	0.00	0.00	0.39	0.39			N/A	N/A
2 - A325 (S)	0.75	0.09	0.85	1.44	1.52			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.01	0.25	0.45	0.48			N/A	N/A

07:30 - 07:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.52	0.03	0.26	0.52	0.52			N/A	N/A
2 - A325 (S)	1.09	0.03	0.27	1.09	1.09			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.00	0.00	0.01	0.01			N/A	N/A

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.52	0.03	0.32	1.46	2.33			N/A	N/A
2 - A325 (S)	1.10	0.03	0.28	1.10	1.21			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.39	0.00	0.00	0.39	0.39			N/A	N/A
2 - A325 (S)	0.75	0.57	1.04	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.31	0.00	0.00	0.31	0.31			N/A	N/A
2 - A325 (S)	0.56	0.07	0.74	1.39	1.48			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2026 + Dev (90th %tile Weekday), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.33	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.33	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2026 + Dev (90th %tile Weekday)	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	798	100.000
2 - A325 (S)		ONE HOUR	✓	685	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	752	46
	2 - A325 (S)	664	0	21
	3 - Forest Lodge & Birdworld Access	85	68	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	2	0
	2 - A325 (S)	3	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.47	3.71	0.9	1.5	A	732	1098
2 - A325 (S)	0.38	3.03	0.6	2.8	A	629	943
3 - Forest Lodge & Birdworld Access	0.11	2.72	0.1	0.5	A	140	211

Main Results for each time segment

16:15 - 16:30

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 - A325 (N)	601	150	51	1882	0.319	599	562	0.0	0.5	2.856	A
2 - A325 (S)	516	129	35	1988	0.259	514	615	0.0	0.4	2.511	A
3 - Forest Lodge & Birdworld Access	115	29	499	1652	0.070	115	50	0.0	0.1	2.342	A

16:30 - 16:45

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 - A325 (N)	717	179	61	1875	0.383	717	673	0.5	0.6	3.165	A
2 - A325 (S)	616	154	41	1983	0.311	615	737	0.4	0.5	2.708	A
3 - Forest Lodge & Birdworld Access	138	34	597	1585	0.087	137	60	0.1	0.1	2.486	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	879	220	75	1866	0.471	878	824	0.6	0.9	3.709	A
2 - A325 (S)	754	189	51	1977	0.382	754	902	0.5	0.6	3.027	A
3 - Forest Lodge & Birdworld Access	168	42	730	1494	0.113	168	74	0.1	0.1	2.714	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	879	220	75	1866	0.471	879	825	0.9	0.9	3.715	A
2 - A325 (S)	754	189	51	1977	0.382	754	903	0.6	0.6	3.029	A
3 - Forest Lodge & Birdworld Access	168	42	731	1494	0.113	168	74	0.1	0.1	2.715	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	717	179	61	1875	0.383	718	674	0.9	0.6	3.176	A
2 - A325 (S)	616	154	41	1983	0.311	616	738	0.6	0.5	2.711	A
3 - Forest Lodge & Birdworld Access	138	34	598	1584	0.087	138	60	0.1	0.1	2.488	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	601	150	51	1882	0.319	601	564	0.6	0.5	2.868	A
2 - A325 (S)	516	129	35	1988	0.259	516	618	0.5	0.4	2.517	A
3 - Forest Lodge & Birdworld Access	115	29	500	1650	0.070	115	50	0.1	0.1	2.344	A

Queue Variation Results for each time segment

16:15 - 16:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.48	0.00	0.00	0.48	0.48			N/A	N/A
2 - A325 (S)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.07	0.00	0.00	0.07	0.07			N/A	N/A

16:30 - 16:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.63	0.09	0.83	1.39	1.46			N/A	N/A
2 - A325 (S)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.09	0.03	0.25	0.45	0.48			N/A	N/A

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.90	0.03	0.26	0.90	0.90			N/A	N/A
2 - A325 (S)	0.63	0.03	0.26	0.63	0.63			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.13	0.03	0.26	0.46	0.49			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.90	0.03	0.27	0.90	1.47			N/A	N/A
2 - A325 (S)	0.63	0.03	0.30	1.13	2.75			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.13	0.00	0.00	0.13	0.13			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.64	0.56	1.02	1.43	1.48			N/A	N/A
2 - A325 (S)	0.47	0.00	0.00	0.47	0.47			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.10	0.00	0.00	0.10	0.10			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.48	0.00	0.00	0.48	0.48			N/A	N/A
2 - A325 (S)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

2026 + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.48	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.48	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 + Dev	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	558	100.000
2 - A325 (S)		ONE HOUR	✓	918	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	2	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	526	32
2 - A325 (S)	896	0	22
3 - Forest Lodge & Birdworld Access	2	0	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	5	0
	2 - A325 (S)	4	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.32	2.89	0.5	2.1	A	512	768
2 - A325 (S)	0.51	3.83	1.1	1.5	A	842	1264
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

07:00 - 07:15

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 - A325 (N)	420	105	0	1916	0.219	419	672	0.0	0.3	2.518	A
2 - A325 (S)	691	173	24	1995	0.346	689	395	0.0	0.5	2.858	A
3 - Forest Lodge & Birdworld Access	0	0	672	1534	0.000	0	41	0.0	0.0	0.000	A

07:15 - 07:30

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 - A325 (N)	502	125	0	1916	0.262	501	805	0.3	0.4	2.664	A
2 - A325 (S)	825	206	29	1992	0.414	825	473	0.5	0.7	3.202	A
3 - Forest Lodge & Birdworld Access	0	0	805	1444	0.000	0	49	0.0	0.0	0.000	A

07:30 - 07:45

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 - A325 (N)	614	154	0	1916	0.321	614	985	0.4	0.5	2.895	A
2 - A325 (S)	1011	253	35	1987	0.509	1009	579	0.7	1.1	3.819	A
3 - Forest Lodge & Birdworld Access	0	0	985	1321	0.000	0	59	0.0	0.0	0.000	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	614	154	0	1916	0.321	614	986	0.5	0.5	2.895	A
2 - A325 (S)	1011	253	35	1987	0.509	1011	579	1.1	1.1	3.828	A
3 - Forest Lodge & Birdworld Access	0	0	986	1320	0.000	0	59	0.0	0.0	0.000	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	502	125	0	1916	0.262	502	807	0.5	0.4	2.666	A
2 - A325 (S)	825	206	29	1992	0.414	827	473	1.1	0.7	3.212	A
3 - Forest Lodge & Birdworld Access	0	0	807	1442	0.000	0	49	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	420	105	0	1916	0.219	420	675	0.4	0.3	2.522	A
2 - A325 (S)	691	173	24	1995	0.346	692	396	0.7	0.6	2.873	A
3 - Forest Lodge & Birdworld Access	0	0	675	1532	0.000	0	41	0.0	0.0	0.000	A

Queue Variation Results for each time segment

07:00 - 07:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.29	0.00	0.00	0.29	0.29			N/A	N/A
2 - A325 (S)	0.55	0.55	1.04	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:15 - 07:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
2 - A325 (S)	0.73	0.09	0.85	1.44	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:30 - 07:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.49	0.03	0.26	0.49	0.50			N/A	N/A
2 - A325 (S)	1.07	0.03	0.27	1.07	1.07			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.49	0.03	0.32	1.46	2.08			N/A	N/A
2 - A325 (S)	1.07	0.03	0.28	1.07	1.28			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
2 - A325 (S)	0.74	0.57	1.04	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.30	0.00	0.00	0.30	0.30			N/A	N/A
2 - A325 (S)	0.55	0.07	0.72	1.39	1.47			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2026 + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.27	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.27	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2026 + Dev	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	784	100.000
2 - A325 (S)		ONE HOUR	✓	682	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	100	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	752	32
	2 - A325 (S)	664	0	18
	3 - Forest Lodge & Birdworld Access	60	40	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	2	0
	2 - A325 (S)	3	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.46	3.58	0.9	1.7	A	719	1079
2 - A325 (S)	0.38	3.00	0.6	2.8	A	626	939
3 - Forest Lodge & Birdworld Access	0.07	2.60	0.1	0.5	A	92	138

Main Results for each time segment

16:15 - 16:30

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 - A325 (N)	590	148	30	1896	0.311	588	544	0.0	0.5	2.803	A
2 - A325 (S)	513	128	24	1995	0.257	512	594	0.0	0.4	2.495	A
3 - Forest Lodge & Birdworld Access	75	19	499	1652	0.046	75	38	0.0	0.0	2.283	A

16:30 - 16:45

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 - A325 (N)	705	176	36	1892	0.373	704	650	0.5	0.6	3.087	A
2 - A325 (S)	613	153	29	1992	0.308	613	711	0.4	0.5	2.686	A
3 - Forest Lodge & Birdworld Access	90	22	597	1585	0.057	90	45	0.0	0.1	2.407	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	863	216	44	1886	0.458	862	796	0.6	0.9	3.579	A
2 - A325 (S)	751	188	35	1987	0.378	750	871	0.5	0.6	2.993	A
3 - Forest Lodge & Birdworld Access	110	28	730	1494	0.074	110	55	0.1	0.1	2.600	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	863	216	44	1886	0.458	863	797	0.9	0.9	3.585	A
2 - A325 (S)	751	188	35	1987	0.378	751	872	0.6	0.6	2.995	A
3 - Forest Lodge & Birdworld Access	110	28	731	1494	0.074	110	55	0.1	0.1	2.601	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	705	176	36	1892	0.373	706	652	0.9	0.6	3.095	A
2 - A325 (S)	613	153	29	1992	0.308	614	713	0.6	0.5	2.689	A
3 - Forest Lodge & Birdworld Access	90	22	598	1584	0.057	90	45	0.1	0.1	2.408	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	590	148	30	1896	0.311	591	545	0.6	0.5	2.812	A
2 - A325 (S)	513	128	24	1995	0.257	514	597	0.5	0.4	2.503	A
3 - Forest Lodge & Birdworld Access	75	19	500	1650	0.046	75	38	0.1	0.0	2.287	A

Queue Variation Results for each time segment

16:15 - 16:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
2 - A325 (S)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.05	0.00	0.00	0.05	0.05			N/A	N/A

16:30 - 16:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.60	0.09	0.82	1.39	1.46			N/A	N/A
2 - A325 (S)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.06	0.03	0.25	0.45	0.48			N/A	N/A

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.85	0.03	0.26	0.85	0.85			N/A	N/A
2 - A325 (S)	0.62	0.03	0.26	0.62	0.62			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.03	0.26	0.47	0.49			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.86	0.03	0.28	0.86	1.71			N/A	N/A
2 - A325 (S)	0.62	0.03	0.30	1.17	2.76			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.61	0.56	1.02	1.43	1.48			N/A	N/A
2 - A325 (S)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.06	0.00	0.00	0.06	0.06			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
2 - A325 (S)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.05	0.00	0.00	0.05	0.05			N/A	N/A

2026 + Dev (90th %tile Weekend), Weekend

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.51	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.51	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2026 + Dev (90th %tile Weekend)	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	828	100.000
2 - A325 (S)		ONE HOUR	✓	668	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	314	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	671	157
	2 - A325 (S)	539	0	129
	3 - Forest Lodge & Birdworld Access	169	145	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	1	0
	2 - A325 (S)	1	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.50	4.04	1.0	1.5	A	760	1140
2 - A325 (S)	0.39	3.14	0.6	2.7	A	613	919
3 - Forest Lodge & Birdworld Access	0.22	2.90	0.3	1.1	A	288	432

Main Results for each time segment

12:45 - 13:00

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 - A325 (N)	623	156	109	1843	0.338	621	532	0.0	0.5	2.966	A
2 - A325 (S)	503	126	118	1929	0.261	501	612	0.0	0.4	2.539	A
3 - Forest Lodge & Birdworld Access	236	59	405	1715	0.138	236	215	0.0	0.2	2.431	A

13:00 - 13:15

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 - A325 (N)	744	186	130	1828	0.407	744	636	0.5	0.7	3.344	A
2 - A325 (S)	601	150	141	1913	0.314	600	733	0.4	0.5	2.764	A
3 - Forest Lodge & Birdworld Access	282	71	484	1661	0.170	282	257	0.2	0.2	2.610	A

13:15 - 13:30

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 - A325 (N)	912	228	160	1809	0.504	910	779	0.7	1.0	4.033	A
2 - A325 (S)	735	184	173	1891	0.389	735	897	0.5	0.6	3.138	A
3 - Forest Lodge & Birdworld Access	346	86	593	1588	0.218	345	315	0.2	0.3	2.898	A

13:30 - 13:45

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 - A325 (N)	912	228	160	1809	0.504	912	780	1.0	1.0	4.045	A
2 - A325 (S)	735	184	173	1891	0.389	735	898	0.6	0.6	3.141	A
3 - Forest Lodge & Birdworld Access	346	86	593	1587	0.218	346	315	0.3	0.3	2.899	A

13:45 - 14:00

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 - A325 (N)	744	186	130	1828	0.407	746	637	1.0	0.7	3.357	A
2 - A325 (S)	601	150	141	1913	0.314	601	735	0.6	0.5	2.770	A
3 - Forest Lodge & Birdworld Access	282	71	485	1661	0.170	283	257	0.3	0.2	2.612	A

14:00 - 14:15

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 - A325 (N)	623	156	109	1843	0.338	624	533	0.7	0.5	2.979	A
2 - A325 (S)	503	126	118	1929	0.261	503	615	0.5	0.4	2.545	A
3 - Forest Lodge & Birdworld Access	236	59	406	1714	0.138	237	216	0.2	0.2	2.436	A

Queue Variation Results for each time segment

12:45 - 13:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.51	0.51	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.35	0.00	0.00	0.35	0.35			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.16	0.00	0.00	0.16	0.16			N/A	N/A

13:00 - 13:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.69	0.09	0.83	1.38	1.45			N/A	N/A
2 - A325 (S)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.20	0.00	0.00	0.20	0.20			N/A	N/A

13:15 - 13:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.02	0.03	0.26	1.02	1.02			N/A	N/A
2 - A325 (S)	0.64	0.03	0.25	0.64	0.64			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.28	0.03	0.25	0.45	0.48			N/A	N/A

13:30 - 13:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.02	0.03	0.27	1.02	1.42			N/A	N/A
2 - A325 (S)	0.64	0.03	0.29	1.04	2.71			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.28	0.03	0.29	0.74	1.12			N/A	N/A

13:45 - 14:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.70	0.55	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.21	0.00	0.00	0.21	0.21			N/A	N/A

14:00 - 14:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.52	0.05	0.57	1.32	1.42			N/A	N/A
2 - A325 (S)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.16	0.00	0.00	0.16	0.16			N/A	N/A

2026 + Dev, Weekend

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.47	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.47	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2026 + Dev	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	821	100.000
2 - A325 (S)		ONE HOUR	✓	661	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	299	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	671	150
	2 - A325 (S)	539	0	122
	3 - Forest Lodge & Birdworld Access	161	138	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	1	0
	2 - A325 (S)	1	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.50	3.99	1.0	1.5	A	753	1130
2 - A325 (S)	0.38	3.11	0.6	2.7	A	607	910
3 - Forest Lodge & Birdworld Access	0.21	2.86	0.3	0.9	A	274	412

Main Results for each time segment

12:45 - 13:00

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 - A325 (N)	618	155	104	1846	0.335	616	526	0.0	0.5	2.945	A
2 - A325 (S)	498	124	113	1933	0.257	496	607	0.0	0.3	2.524	A
3 - Forest Lodge & Birdworld Access	225	56	405	1715	0.131	225	204	0.0	0.2	2.413	A

13:00 - 13:15

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 - A325 (N)	738	185	124	1833	0.403	737	629	0.5	0.7	3.312	A
2 - A325 (S)	594	149	135	1917	0.310	594	727	0.3	0.5	2.742	A
3 - Forest Lodge & Birdworld Access	269	67	484	1661	0.162	269	244	0.2	0.2	2.584	A

13:15 - 13:30

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 - A325 (N)	904	226	152	1814	0.498	903	770	0.7	1.0	3.976	A
2 - A325 (S)	728	182	165	1896	0.384	727	890	0.5	0.6	3.103	A
3 - Forest Lodge & Birdworld Access	329	82	593	1588	0.207	329	299	0.2	0.3	2.860	A

13:30 - 13:45

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 - A325 (N)	904	226	152	1814	0.498	904	771	1.0	1.0	3.988	A
2 - A325 (S)	728	182	165	1896	0.384	728	891	0.6	0.6	3.106	A
3 - Forest Lodge & Birdworld Access	329	82	593	1587	0.207	329	299	0.3	0.3	2.861	A

13:45 - 14:00

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 - A325 (N)	738	185	124	1833	0.403	739	630	1.0	0.7	3.325	A
2 - A325 (S)	594	149	135	1917	0.310	595	728	0.6	0.5	2.745	A
3 - Forest Lodge & Birdworld Access	269	67	485	1661	0.162	269	245	0.3	0.2	2.589	A

14:00 - 14:15

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 - A325 (N)	618	155	104	1846	0.335	619	527	0.7	0.5	2.960	A
2 - A325 (S)	498	124	113	1933	0.257	498	610	0.5	0.4	2.532	A
3 - Forest Lodge & Birdworld Access	225	56	406	1714	0.131	225	205	0.2	0.2	2.419	A

Queue Variation Results for each time segment

12:45 - 13:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.50	0.50	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.35	0.00	0.00	0.35	0.35			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.15	0.00	0.00	0.15	0.15			N/A	N/A

13:00 - 13:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.68	0.09	0.83	1.38	1.45			N/A	N/A
2 - A325 (S)	0.45	0.00	0.00	0.45	0.45			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.19	0.00	0.00	0.19	0.19			N/A	N/A

13:15 - 13:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.99	0.03	0.26	0.99	0.99			N/A	N/A
2 - A325 (S)	0.62	0.03	0.25	0.62	0.62			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.26	0.03	0.25	0.46	0.48			N/A	N/A

13:30 - 13:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.00	0.03	0.27	1.00	1.48			N/A	N/A
2 - A325 (S)	0.63	0.03	0.29	1.11	2.72			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.26	0.03	0.27	0.49	0.92			N/A	N/A

13:45 - 14:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.68	0.55	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.45	0.00	0.00	0.45	0.45			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.19	0.00	0.00	0.19	0.19			N/A	N/A

14:00 - 14:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.51	0.51	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.35	0.00	0.00	0.35	0.35			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.15	0.00	0.00	0.15	0.15			N/A	N/A

2026 + Dev, Bank Holiday

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	4.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2026 + Dev	Bank Holiday	Observed Saturday PM Peak Hour	ONE HOUR	11:00	12:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	865	100.000
2 - A325 (S)		ONE HOUR	✓	915	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	263	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	648	217
2 - A325 (S)	665	0	250
3 - Forest Lodge & Birdworld Access	149	114	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	1	0
	2 - A325 (S)	1	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.52	4.12	1.1	1.5	A	794	1191
2 - A325 (S)	0.55	4.33	1.2	1.5	A	840	1259
3 - Forest Lodge & Birdworld Access	0.19	2.99	0.2	0.5	A	241	362

Main Results for each time segment

11:00 - 11:15

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 - A325 (N)	651	163	86	1858	0.350	649	611	0.0	0.5	2.994	A
2 - A325 (S)	689	172	163	1898	0.363	687	572	0.0	0.6	2.989	A
3 - Forest Lodge & Birdworld Access	198	50	499	1651	0.120	197	350	0.0	0.1	2.476	A

11:15 - 11:30

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 - A325 (N)	778	194	102	1847	0.421	777	731	0.5	0.7	3.387	A
2 - A325 (S)	823	206	195	1875	0.439	822	684	0.6	0.8	3.439	A
3 - Forest Lodge & Birdworld Access	236	59	597	1585	0.149	236	419	0.1	0.2	2.669	A

11:30 - 11:45

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 - A325 (N)	952	238	125	1832	0.520	951	895	0.7	1.1	4.111	A
2 - A325 (S)	1007	252	239	1844	0.546	1006	838	0.8	1.2	4.315	A
3 - Forest Lodge & Birdworld Access	290	72	731	1494	0.194	289	513	0.2	0.2	2.988	A

11:45 - 12:00

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 - A325 (N)	952	238	126	1832	0.520	952	896	1.1	1.1	4.124	A
2 - A325 (S)	1007	252	239	1844	0.546	1007	839	1.2	1.2	4.333	A
3 - Forest Lodge & Birdworld Access	290	72	732	1493	0.194	290	514	0.2	0.2	2.990	A

12:00 - 12:15

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 - A325 (N)	778	194	103	1847	0.421	779	733	1.1	0.7	3.399	A
2 - A325 (S)	823	206	195	1875	0.439	824	686	1.2	0.8	3.456	A
3 - Forest Lodge & Birdworld Access	236	59	599	1583	0.149	237	421	0.2	0.2	2.675	A

12:15 - 12:30

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 - A325 (N)	651	163	86	1858	0.350	652	614	0.7	0.5	3.010	A
2 - A325 (S)	689	172	164	1897	0.363	690	574	0.8	0.6	3.004	A
3 - Forest Lodge & Birdworld Access	198	50	501	1650	0.120	198	352	0.2	0.1	2.481	A

Queue Variation Results for each time segment

11:00 - 11:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.54	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.57	0.55	1.01	1.41	1.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.14	0.00	0.00	0.14	0.14			N/A	N/A

11:15 - 11:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.73	0.09	0.83	1.40	1.48			N/A	N/A
2 - A325 (S)	0.78	0.08	0.82	1.33	1.33			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.17	0.00	0.00	0.17	0.17			N/A	N/A

11:30 - 11:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.08	0.03	0.26	1.08	1.08			N/A	N/A
2 - A325 (S)	1.20	0.03	0.26	1.20	1.20			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.24	0.03	0.25	0.46	0.48			N/A	N/A

11:45 - 12:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.09	0.03	0.27	1.09	1.21			N/A	N/A
2 - A325 (S)	1.21	0.03	0.27	1.21	1.21			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.24	0.03	0.26	0.47	0.49			N/A	N/A

12:00 - 12:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.74	0.55	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.79	0.52	0.99	1.41	1.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.18	0.00	0.00	0.18	0.18			N/A	N/A

12:15 - 12:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.55	0.07	0.70	1.35	1.43			N/A	N/A
2 - A325 (S)	0.58	0.07	0.74	1.36	1.43			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.14	0.00	0.00	0.14	0.14			N/A	N/A

2031 + Dev (90th %tile Weekday), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.65	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.65	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2031 + Dev (90th %tile Weekday)	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	597	100.000
2 - A325 (S)		ONE HOUR	✓	957	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	9	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	545	52
	2 - A325 (S)	930	0	27
	3 - Forest Lodge & Birdworld Access	9	0	0

Vehicle Mix

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

Heavy Vehicle %

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	5	0
2 - A325 (S)	4	0	0
3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.34	2.99	0.5	2.5	A	548	822
2 - A325 (S)	0.53	4.07	1.2	1.5	A	878	1317
3 - Forest Lodge & Birdworld Access	0.01	2.80	0.0	0.5	A	8	12

Main Results for each time segment

07:00 - 07:15

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 - A325 (N)	449	112	0	1916	0.235	448	705	0.0	0.3	2.562	A
2 - A325 (S)	720	180	39	1985	0.363	718	409	0.0	0.6	2.948	A
3 - Forest Lodge & Birdworld Access	7	2	698	1516	0.004	7	59	0.0	0.0	2.384	A

07:15 - 07:30

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 - A325 (N)	537	134	0	1916	0.280	536	843	0.3	0.4	2.728	A
2 - A325 (S)	860	215	47	1979	0.435	860	490	0.6	0.8	3.338	A
3 - Forest Lodge & Birdworld Access	8	2	835	1423	0.006	8	71	0.0	0.0	2.543	A

07:30 - 07:45

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 - A325 (N)	657	164	0	1916	0.343	657	1032	0.4	0.5	2.987	A
2 - A325 (S)	1054	263	57	1972	0.534	1052	600	0.8	1.2	4.059	A
3 - Forest Lodge & Birdworld Access	10	2	1022	1296	0.008	10	87	0.0	0.0	2.798	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	657	164	0	1916	0.343	657	1034	0.5	0.5	2.989	A
2 - A325 (S)	1054	263	57	1972	0.534	1054	600	1.2	1.2	4.072	A
3 - Forest Lodge & Birdworld Access	10	2	1024	1295	0.008	10	87	0.0	0.0	2.800	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	537	134	0	1916	0.280	537	846	0.5	0.4	2.730	A
2 - A325 (S)	860	215	47	1979	0.435	862	490	1.2	0.8	3.350	A
3 - Forest Lodge & Birdworld Access	8	2	838	1421	0.006	8	71	0.0	0.0	2.546	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	449	112	0	1916	0.235	450	708	0.4	0.3	2.569	A
2 - A325 (S)	720	180	39	1985	0.363	721	411	0.8	0.6	2.961	A
3 - Forest Lodge & Birdworld Access	7	2	701	1514	0.004	7	60	0.0	0.0	2.387	A

Queue Variation Results for each time segment

07:00 - 07:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.32	0.00	0.00	0.32	0.32			N/A	N/A
2 - A325 (S)	0.59	0.57	1.04	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:15 - 07:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.41	0.00	0.00	0.41	0.41			N/A	N/A
2 - A325 (S)	0.79	0.09	0.85	1.17	1.17			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.01	0.25	0.45	0.48			N/A	N/A

07:30 - 07:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.03	0.26	0.54	0.54			N/A	N/A
2 - A325 (S)	1.18	0.03	0.27	1.18	1.18			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.01	0.25	0.45	0.48			N/A	N/A

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.03	0.31	1.43	2.51			N/A	N/A
2 - A325 (S)	1.19	0.03	0.28	1.19	1.19			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.41	0.00	0.00	0.41	0.41			N/A	N/A
2 - A325 (S)	0.80	0.55	1.03	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.32	0.00	0.00	0.32	0.32			N/A	N/A
2 - A325 (S)	0.60	0.08	0.80	1.41	1.48			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2031 + Dev (90th %tile Weekday), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.43	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.43	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2031 + Dev (90th %tile Weekday)	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	828	100.000
2 - A325 (S)		ONE HOUR	✓	711	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	782	46
	2 - A325 (S)	690	0	21
	3 - Forest Lodge & Birdworld Access	85	68	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	2	0
	2 - A325 (S)	3	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.49	3.84	1.0	1.5	A	760	1140
2 - A325 (S)	0.40	3.10	0.7	2.7	A	652	979
3 - Forest Lodge & Birdworld Access	0.11	2.76	0.1	0.5	A	140	211

Main Results for each time segment

16:15 - 16:30

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 - A325 (N)	623	156	51	1882	0.331	621	582	0.0	0.5	2.905	A
2 - A325 (S)	535	134	35	1988	0.269	534	638	0.0	0.4	2.545	A
3 - Forest Lodge & Birdworld Access	115	29	518	1638	0.070	115	50	0.0	0.1	2.363	A

16:30 - 16:45

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 - A325 (N)	744	186	61	1875	0.397	744	696	0.5	0.7	3.241	A
2 - A325 (S)	639	160	41	1983	0.322	639	763	0.4	0.5	2.755	A
3 - Forest Lodge & Birdworld Access	138	34	620	1569	0.088	137	60	0.1	0.1	2.514	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	912	228	75	1866	0.489	910	853	0.7	1.0	3.835	A
2 - A325 (S)	783	196	51	1977	0.396	782	935	0.5	0.7	3.100	A
3 - Forest Lodge & Birdworld Access	168	42	759	1475	0.114	168	74	0.1	0.1	2.755	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	912	228	75	1866	0.489	912	853	1.0	1.0	3.844	A
2 - A325 (S)	783	196	51	1977	0.396	783	936	0.7	0.7	3.102	A
3 - Forest Lodge & Birdworld Access	168	42	760	1474	0.114	168	74	0.1	0.1	2.756	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	744	186	61	1875	0.397	746	697	1.0	0.7	3.253	A
2 - A325 (S)	639	160	41	1983	0.322	640	765	0.7	0.5	2.759	A
3 - Forest Lodge & Birdworld Access	138	34	621	1568	0.088	138	60	0.1	0.1	2.517	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	623	156	51	1882	0.331	624	584	0.7	0.5	2.917	A
2 - A325 (S)	535	134	35	1988	0.269	536	641	0.5	0.4	2.553	A
3 - Forest Lodge & Birdworld Access	115	29	520	1637	0.070	115	50	0.1	0.1	2.365	A

Queue Variation Results for each time segment

16:15 - 16:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.50	0.00	0.00	0.50	0.50			N/A	N/A
2 - A325 (S)	0.38	0.00	0.00	0.38	0.38			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

16:30 - 16:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.67	0.10	0.84	1.39	1.46			N/A	N/A
2 - A325 (S)	0.49	0.00	0.00	0.49	0.49			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.10	0.03	0.25	0.45	0.48			N/A	N/A

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.97	0.03	0.26	0.97	0.97			N/A	N/A
2 - A325 (S)	0.67	0.03	0.26	0.67	0.67			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.13	0.03	0.26	0.46	0.49			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.97	0.03	0.27	0.97	1.06			N/A	N/A
2 - A325 (S)	0.67	0.03	0.29	0.92	2.71			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.13	0.00	0.00	0.13	0.13			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.67	0.56	1.02	1.43	1.48			N/A	N/A
2 - A325 (S)	0.49	0.00	0.00	0.49	0.49			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.10	0.00	0.00	0.10	0.10			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.51	0.00	0.00	0.51	0.51			N/A	N/A
2 - A325 (S)	0.38	0.00	0.00	0.38	0.38			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

2031 + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.59	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.59	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2031 + Dev	AM	Weekday AM Peak Hour	ONE HOUR	07:00	08:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	577	100.000
2 - A325 (S)		ONE HOUR	✓	952	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	2	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	545	32
	2 - A325 (S)	930	0	22
	3 - Forest Lodge & Birdworld Access	2	0	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	5	0
	2 - A325 (S)	4	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.33	2.94	0.5	2.3	A	529	794
2 - A325 (S)	0.53	3.98	1.2	1.6	A	874	1310
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

07:00 - 07:15

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 - A325 (N)	434	109	0	1916	0.227	433	698	0.0	0.3	2.539	A
2 - A325 (S)	717	179	24	1995	0.359	714	409	0.0	0.6	2.915	A
3 - Forest Lodge & Birdworld Access	0	0	698	1516	0.000	0	41	0.0	0.0	0.000	A

07:15 - 07:30

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 - A325 (N)	519	130	0	1916	0.271	518	835	0.3	0.4	2.697	A
2 - A325 (S)	856	214	29	1992	0.430	855	490	0.6	0.8	3.288	A
3 - Forest Lodge & Birdworld Access	0	0	835	1423	0.000	0	49	0.0	0.0	0.000	A

07:30 - 07:45

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 - A325 (N)	635	159	0	1916	0.332	635	1022	0.4	0.5	2.940	A
2 - A325 (S)	1048	262	35	1987	0.527	1047	600	0.8	1.1	3.969	A
3 - Forest Lodge & Birdworld Access	0	0	1022	1296	0.000	0	59	0.0	0.0	0.000	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	635	159	0	1916	0.332	635	1024	0.5	0.5	2.942	A
2 - A325 (S)	1048	262	35	1987	0.527	1048	600	1.1	1.2	3.982	A
3 - Forest Lodge & Birdworld Access	0	0	1024	1295	0.000	0	59	0.0	0.0	0.000	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	519	130	0	1916	0.271	519	837	0.5	0.4	2.701	A
2 - A325 (S)	856	214	29	1992	0.430	857	490	1.2	0.8	3.300	A
3 - Forest Lodge & Birdworld Access	0	0	837	1422	0.000	0	49	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	434	109	0	1916	0.227	435	701	0.4	0.3	2.545	A
2 - A325 (S)	717	179	24	1995	0.359	718	411	0.8	0.6	2.930	A
3 - Forest Lodge & Birdworld Access	0	0	701	1514	0.000	0	41	0.0	0.0	0.000	A

Queue Variation Results for each time segment

07:00 - 07:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.31	0.00	0.00	0.31	0.31			N/A	N/A
2 - A325 (S)	0.58	0.57	1.04	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:15 - 07:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.39	0.00	0.00	0.39	0.39			N/A	N/A
2 - A325 (S)	0.78	0.09	0.85	1.47	1.55			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:30 - 07:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.52	0.03	0.26	0.52	0.52			N/A	N/A
2 - A325 (S)	1.15	0.03	0.27	1.15	1.15			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.52	0.03	0.32	1.46	2.33			N/A	N/A
2 - A325 (S)	1.15	0.03	0.28	1.15	1.15			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.39	0.00	0.00	0.39	0.39			N/A	N/A
2 - A325 (S)	0.79	0.56	1.03	1.45	1.51			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.31	0.00	0.00	0.31	0.31			N/A	N/A
2 - A325 (S)	0.59	0.08	0.79	1.41	1.48			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2031 + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.36	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.36	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2031 + Dev	PM	Weekday PM Peak Hour	ONE HOUR	16:15	17:45	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	814	100.000
2 - A325 (S)		ONE HOUR	✓	708	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	100	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	782	32
	2 - A325 (S)	690	0	18
	3 - Forest Lodge & Birdworld Access	60	40	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	2	0
	2 - A325 (S)	3	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.48	3.70	0.9	1.5	A	747	1120
2 - A325 (S)	0.39	3.07	0.7	2.7	A	650	975
3 - Forest Lodge & Birdworld Access	0.07	2.64	0.1	0.5	A	92	138

Main Results for each time segment

16:15 - 16:30

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 - A325 (N)	613	153	30	1896	0.323	611	563	0.0	0.5	2.852	A
2 - A325 (S)	533	133	24	1995	0.267	532	617	0.0	0.4	2.529	A
3 - Forest Lodge & Birdworld Access	75	19	518	1638	0.046	75	38	0.0	0.0	2.302	A

16:30 - 16:45

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 - A325 (N)	732	183	36	1892	0.387	731	674	0.5	0.6	3.159	A
2 - A325 (S)	636	159	29	1992	0.320	636	738	0.4	0.5	2.732	A
3 - Forest Lodge & Birdworld Access	90	22	620	1569	0.057	90	45	0.0	0.1	2.433	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	896	224	44	1886	0.475	895	825	0.6	0.9	3.699	A
2 - A325 (S)	780	195	35	1987	0.392	779	904	0.5	0.7	3.064	A
3 - Forest Lodge & Birdworld Access	110	28	759	1475	0.075	110	55	0.1	0.1	2.637	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	896	224	44	1886	0.475	896	826	0.9	0.9	3.704	A
2 - A325 (S)	780	195	35	1987	0.392	780	905	0.7	0.7	3.066	A
3 - Forest Lodge & Birdworld Access	110	28	760	1474	0.075	110	55	0.1	0.1	2.638	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	732	183	36	1892	0.387	733	675	0.9	0.6	3.170	A
2 - A325 (S)	636	159	29	1992	0.320	637	740	0.7	0.5	2.735	A
3 - Forest Lodge & Birdworld Access	90	22	621	1568	0.057	90	45	0.1	0.1	2.434	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A325 (N)	613	153	30	1896	0.323	613	565	0.6	0.5	2.862	A
2 - A325 (S)	533	133	24	1995	0.267	533	619	0.5	0.4	2.536	A
3 - Forest Lodge & Birdworld Access	75	19	520	1637	0.046	75	38	0.1	0.0	2.304	A

Queue Variation Results for each time segment

16:15 - 16:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.48	0.00	0.00	0.48	0.48			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.05	0.00	0.00	0.05	0.05			N/A	N/A

16:30 - 16:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.64	0.10	0.84	1.39	1.46			N/A	N/A
2 - A325 (S)	0.48	0.00	0.00	0.48	0.48			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.06	0.03	0.25	0.45	0.48			N/A	N/A

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.92	0.03	0.26	0.92	0.92			N/A	N/A
2 - A325 (S)	0.66	0.03	0.26	0.66	0.66			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.03	0.26	0.47	0.49			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.92	0.03	0.27	0.92	1.34			N/A	N/A
2 - A325 (S)	0.66	0.03	0.29	0.98	2.72			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.08	0.00	0.00	0.08	0.08			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.65	0.56	1.02	1.43	1.48			N/A	N/A
2 - A325 (S)	0.49	0.00	0.00	0.49	0.49			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.06	0.00	0.00	0.06	0.06			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.49	0.00	0.00	0.49	0.49			N/A	N/A
2 - A325 (S)	0.38	0.00	0.00	0.38	0.38			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.05	0.00	0.00	0.05	0.05			N/A	N/A

2031 + Dev (90th %tile Weekend), Weekend

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.62	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.62	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2031 + Dev (90th %tile Weekend)	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	858	100.000
2 - A325 (S)		ONE HOUR	✓	692	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	314	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To		
	1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
1 - A325 (N)	0	701	157
2 - A325 (S)	563	0	129
3 - Forest Lodge & Birdworld Access	169	145	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	1	0
	2 - A325 (S)	1	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.52	4.20	1.1	1.5	A	787	1181
2 - A325 (S)	0.40	3.21	0.7	2.7	A	635	952
3 - Forest Lodge & Birdworld Access	0.22	2.94	0.3	1.2	A	288	432

Main Results for each time segment

12:45 - 13:00

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 - A325 (N)	646	161	109	1843	0.351	644	550	0.0	0.5	3.022	A
2 - A325 (S)	521	130	118	1929	0.270	519	635	0.0	0.4	2.572	A
3 - Forest Lodge & Birdworld Access	236	59	423	1703	0.139	236	215	0.0	0.2	2.452	A

13:00 - 13:15

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 - A325 (N)	771	193	130	1828	0.422	771	658	0.5	0.7	3.429	A
2 - A325 (S)	622	156	141	1913	0.325	622	760	0.4	0.5	2.810	A
3 - Forest Lodge & Birdworld Access	282	71	506	1647	0.171	282	257	0.2	0.2	2.638	A

13:15 - 13:30

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 - A325 (N)	945	236	160	1809	0.522	943	805	0.7	1.1	4.186	A
2 - A325 (S)	762	190	173	1891	0.403	761	930	0.5	0.7	3.211	A
3 - Forest Lodge & Birdworld Access	346	86	619	1570	0.220	345	314	0.2	0.3	2.940	A

13:30 - 13:45

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 - A325 (N)	945	236	160	1809	0.522	945	806	1.1	1.1	4.200	A
2 - A325 (S)	762	190	173	1891	0.403	762	931	0.7	0.7	3.214	A
3 - Forest Lodge & Birdworld Access	346	86	620	1569	0.220	346	315	0.3	0.3	2.941	A

13:45 - 14:00

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 - A325 (N)	771	193	130	1828	0.422	773	659	1.1	0.7	3.444	A
2 - A325 (S)	622	156	141	1913	0.325	623	762	0.7	0.5	2.814	A
3 - Forest Lodge & Birdworld Access	282	71	507	1646	0.172	283	258	0.3	0.2	2.642	A

14:00 - 14:15

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 - A325 (N)	646	161	109	1843	0.351	647	552	0.7	0.5	3.036	A
2 - A325 (S)	521	130	118	1929	0.270	521	638	0.5	0.4	2.578	A
3 - Forest Lodge & Birdworld Access	236	59	424	1702	0.139	237	216	0.2	0.2	2.456	A

Queue Variation Results for each time segment

12:45 - 13:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.54	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.16	0.00	0.00	0.16	0.16			N/A	N/A

13:00 - 13:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.73	0.09	0.83	1.41	1.48			N/A	N/A
2 - A325 (S)	0.48	0.00	0.00	0.48	0.48			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.21	0.00	0.00	0.21	0.21			N/A	N/A

13:15 - 13:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.09	0.03	0.26	1.09	1.09			N/A	N/A
2 - A325 (S)	0.68	0.03	0.25	0.68	0.68			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.28	0.03	0.25	0.45	0.48			N/A	N/A

13:30 - 13:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.10	0.03	0.27	1.10	1.22			N/A	N/A
2 - A325 (S)	0.68	0.03	0.28	0.84	2.65			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.28	0.03	0.29	0.80	1.15			N/A	N/A

13:45 - 14:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.74	0.53	1.00	1.41	1.46			N/A	N/A
2 - A325 (S)	0.49	0.00	0.00	0.49	0.49			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.21	0.00	0.00	0.21	0.21			N/A	N/A

14:00 - 14:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.55	0.07	0.69	1.35	1.43			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.16	0.00	0.00	0.16	0.16			N/A	N/A

2031 + Dev, Weekend

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	3.58	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.58	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D17	2031 + Dev	Weekend	Observed Saturday Peak Hour	ONE HOUR	12:45	14:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	851	100.000
2 - A325 (S)		ONE HOUR	✓	685	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	299	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	701	150
	2 - A325 (S)	563	0	122
	3 - Forest Lodge & Birdworld Access	161	138	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	1	0
	2 - A325 (S)	1	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.52	4.14	1.1	1.5	A	781	1171
2 - A325 (S)	0.40	3.18	0.7	2.7	A	629	943
3 - Forest Lodge & Birdworld Access	0.21	2.90	0.3	1.0	A	274	412

Main Results for each time segment

12:45 - 13:00

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 - A325 (N)	641	160	104	1846	0.347	639	544	0.0	0.5	3.000	A
2 - A325 (S)	516	129	113	1933	0.267	514	630	0.0	0.4	2.556	A
3 - Forest Lodge & Birdworld Access	225	56	423	1703	0.132	224	204	0.0	0.2	2.433	A

13:00 - 13:15

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 - A325 (N)	765	191	124	1833	0.417	764	650	0.5	0.7	3.396	A
2 - A325 (S)	616	154	135	1917	0.321	615	754	0.4	0.5	2.787	A
3 - Forest Lodge & Birdworld Access	269	67	506	1647	0.163	269	244	0.2	0.2	2.612	A

13:15 - 13:30

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 - A325 (N)	937	234	152	1814	0.517	936	796	0.7	1.1	4.125	A
2 - A325 (S)	754	189	165	1896	0.398	753	922	0.5	0.7	3.175	A
3 - Forest Lodge & Birdworld Access	329	82	619	1570	0.210	329	299	0.2	0.3	2.901	A

13:30 - 13:45

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 - A325 (N)	937	234	152	1814	0.517	937	797	1.1	1.1	4.138	A
2 - A325 (S)	754	189	165	1896	0.398	754	924	0.7	0.7	3.178	A
3 - Forest Lodge & Birdworld Access	329	82	620	1569	0.210	329	299	0.3	0.3	2.902	A

13:45 - 14:00

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 - A325 (N)	765	191	124	1833	0.417	766	652	1.1	0.7	3.408	A
2 - A325 (S)	616	154	135	1917	0.321	617	756	0.7	0.5	2.791	A
3 - Forest Lodge & Birdworld Access	269	67	507	1646	0.163	269	245	0.3	0.2	2.616	A

14:00 - 14:15

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 - A325 (N)	641	160	104	1846	0.347	641	546	0.7	0.5	3.014	A
2 - A325 (S)	516	129	113	1933	0.267	516	632	0.5	0.4	2.562	A
3 - Forest Lodge & Birdworld Access	225	56	424	1702	0.132	225	205	0.2	0.2	2.439	A

Queue Variation Results for each time segment

12:45 - 13:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.53	0.53	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.15	0.00	0.00	0.15	0.15			N/A	N/A

13:00 - 13:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.72	0.09	0.83	1.40	1.47			N/A	N/A
2 - A325 (S)	0.47	0.00	0.00	0.47	0.47			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.19	0.00	0.00	0.19	0.19			N/A	N/A

13:15 - 13:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.07	0.03	0.26	1.07	1.07			N/A	N/A
2 - A325 (S)	0.66	0.03	0.25	0.66	0.66			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.26	0.03	0.25	0.46	0.48			N/A	N/A

13:30 - 13:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.07	0.03	0.27	1.07	1.28			N/A	N/A
2 - A325 (S)	0.66	0.03	0.29	0.92	2.68			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.26	0.03	0.28	0.50	0.99			N/A	N/A

13:45 - 14:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.73	0.55	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.48	0.00	0.00	0.48	0.48			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.20	0.00	0.00	0.20	0.20			N/A	N/A

14:00 - 14:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.54	0.06	0.67	1.34	1.43			N/A	N/A
2 - A325 (S)	0.37	0.00	0.00	0.37	0.37			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.15	0.00	0.00	0.15	0.15			N/A	N/A

2031 + Dev, Bank Holiday

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Sets	D9 - 2026 + Dev (90th %tile Weekend), Weekend	Demand Set 66: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Demand Sets	D16 - 2031 + Dev (90th %tile Weekend), Weekend	Demand Set 67: Scenario Name includes Time Period Name ('Weekend'). Are you sure this is correct?
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A325/ Birdworld/ Forest Lodge	Standard Roundabout		1, 2, 3	4.23	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.23	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D18	2031 + Dev	Bank Holiday	Observed Saturday PM Peak Hour	ONE HOUR	11:00	12:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A325 (N)		ONE HOUR	✓	894	100.000
2 - A325 (S)		ONE HOUR	✓	945	100.000
3 - Forest Lodge & Birdworld Access		ONE HOUR	✓	263	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
From	1 - A325 (N)	0	677	217
	2 - A325 (S)	695	0	250
	3 - Forest Lodge & Birdworld Access	149	114	0

Vehicle Mix

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

Heavy Vehicle %

		To		
From		1 - A325 (N)	2 - A325 (S)	3 - Forest Lodge & Birdworld Access
	1 - A325 (N)	0	1	0
	2 - A325 (S)	1	0	0
	3 - Forest Lodge & Birdworld Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - A325 (N)	0.54	4.28	1.2	1.5	A	820	1231
2 - A325 (S)	0.56	4.51	1.3	1.6	A	867	1301
3 - Forest Lodge & Birdworld Access	0.20	3.05	0.2	0.5	A	241	362

Main Results for each time segment

11:00 - 11:15

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 - A325 (N)	673	168	86	1858	0.362	671	633	0.0	0.6	3.049	A
2 - A325 (S)	711	178	163	1898	0.375	709	594	0.0	0.6	3.044	A
3 - Forest Lodge & Birdworld Access	198	50	521	1636	0.121	197	350	0.0	0.1	2.503	A

11:15 - 11:30

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 - A325 (N)	804	201	102	1847	0.435	803	758	0.6	0.8	3.468	A
2 - A325 (S)	850	212	195	1875	0.453	849	710	0.6	0.8	3.529	A
3 - Forest Lodge & Birdworld Access	236	59	624	1566	0.151	236	419	0.1	0.2	2.706	A

11:30 - 11:45

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 - A325 (N)	984	246	125	1832	0.537	983	928	0.8	1.2	4.264	A
2 - A325 (S)	1040	260	239	1844	0.564	1039	870	0.8	1.3	4.491	A
3 - Forest Lodge & Birdworld Access	290	72	764	1471	0.197	289	513	0.2	0.2	3.045	A

11:45 - 12:00

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 - A325 (N)	984	246	126	1832	0.537	984	929	1.2	1.2	4.280	A
2 - A325 (S)	1040	260	239	1844	0.564	1040	871	1.3	1.3	4.512	A
3 - Forest Lodge & Birdworld Access	290	72	765	1471	0.197	290	514	0.2	0.2	3.047	A

12:00 - 12:15

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 - A325 (N)	804	201	103	1847	0.435	805	760	1.2	0.8	3.488	A
2 - A325 (S)	850	212	195	1875	0.453	851	712	1.3	0.8	3.549	A
3 - Forest Lodge & Birdworld Access	236	59	626	1565	0.151	237	421	0.2	0.2	2.712	A

12:15 - 12:30

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 - A325 (N)	673	168	86	1858	0.362	674	636	0.8	0.6	3.064	A
2 - A325 (S)	711	178	164	1897	0.375	712	596	0.8	0.6	3.062	A
3 - Forest Lodge & Birdworld Access	198	50	524	1634	0.121	198	352	0.2	0.1	2.506	A

Queue Variation Results for each time segment

11:00 - 11:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.57	0.55	1.01	1.41	1.46			N/A	N/A
2 - A325 (S)	0.60	0.55	1.01	1.41	1.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.14	0.00	0.00	0.14	0.14			N/A	N/A

11:15 - 11:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.77	0.09	0.83	1.14	1.14			N/A	N/A
2 - A325 (S)	0.83	0.08	0.82	1.13	1.64			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.18	0.00	0.00	0.18	0.18			N/A	N/A

11:30 - 11:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.16	0.03	0.26	1.16	1.16			N/A	N/A
2 - A325 (S)	1.29	0.03	0.26	1.29	1.29			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.24	0.03	0.25	0.46	0.48			N/A	N/A

11:45 - 12:00

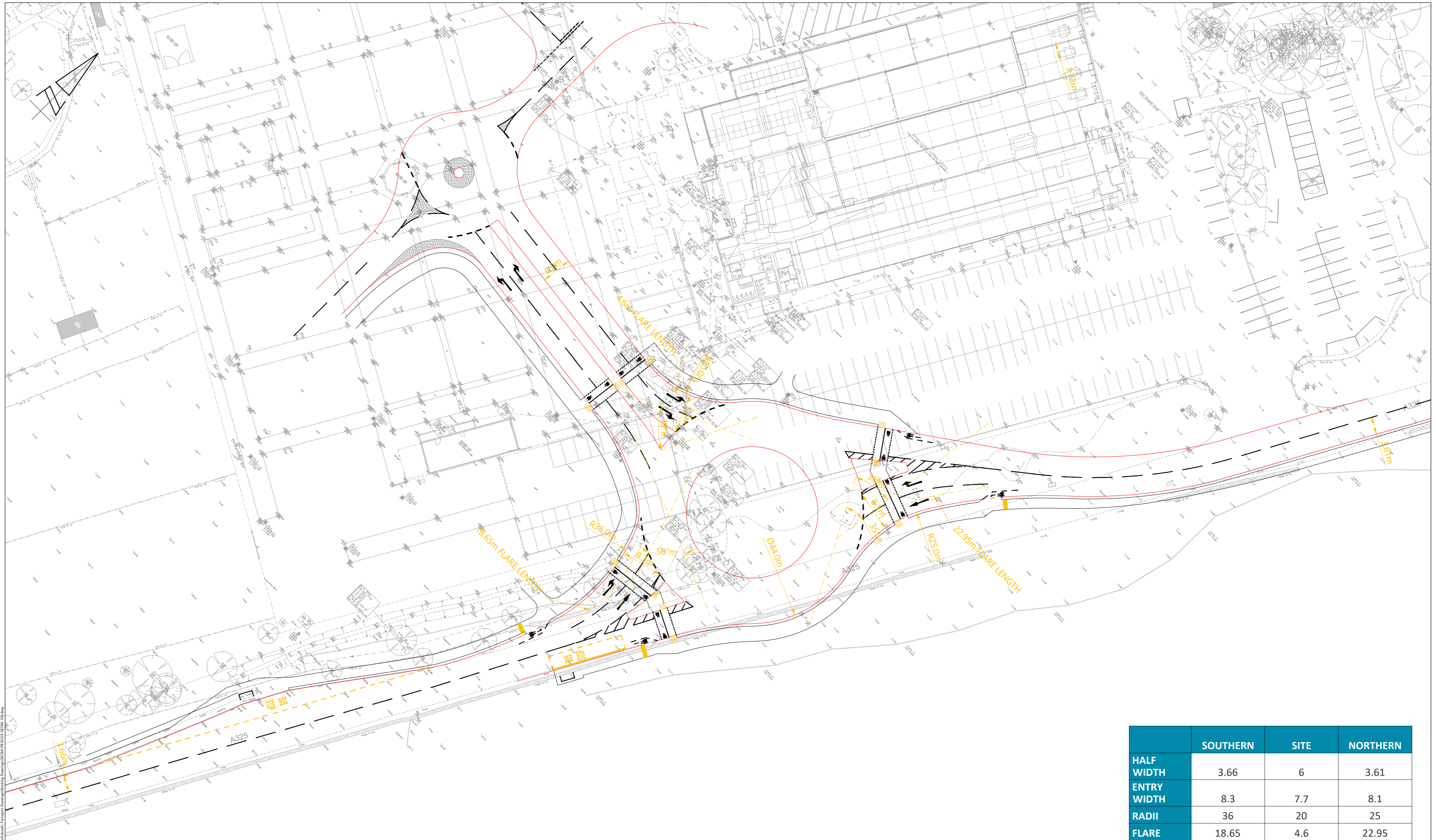
Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	1.16	0.03	0.27	1.16	1.16			N/A	N/A
2 - A325 (S)	1.30	0.03	0.27	1.30	1.30			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.24	0.03	0.26	0.47	0.50			N/A	N/A

12:00 - 12:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.78	0.53	0.99	1.41	1.46			N/A	N/A
2 - A325 (S)	0.84	0.51	0.99	1.41	1.46			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.18	0.00	0.00	0.18	0.18			N/A	N/A

12:15 - 12:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1 - A325 (N)	0.58	0.07	0.75	1.36	1.44			N/A	N/A
2 - A325 (S)	0.61	0.08	0.75	1.36	1.44			N/A	N/A
3 - Forest Lodge & Birdworld Access	0.14	0.00	0.00	0.14	0.14			N/A	N/A



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	SOUTHERN	SITE	NORTHERN
HALF WIDTH	3.66	6	3.61
ENTRY WIDTH	8.3	7.7	8.1
RADII	36	20	25
FLARE	18.65	4.6	22.95
ICD	44	44	44
CONFLICT	25°	39°	35°



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REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT
			FOR INFORMATION			FOREST LODGE GARDEN CENTRE

TITLE	CLIENT
PROPOSED ROUNDABOUT - GEOMETRY	HASKINS FARNHAM LTD

DRAWN	CHECKED	APPROVED
MC	MC	DF
PROJECT No: ITB16329	SCALE @ A2: 1:500	DATE: 07.12.23
DRAWING No: ITB16329-GEOM-106		REV: -