

Junctions 10										
PICADY 10 - Priority Intersection Module										
Version: 10.1.1.1905										
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Filename: Lutterworth Rd_Lychgate Ln_Crossroads.j10

Path: P:\2021\P21-390\T&T\Capacity Assessments\Junctions 10\NH and LCC Consultation

Report generation date: 25/04/2024 17:30:25

»2021, AM
»2021, PM
»2026, AM
»2026, PM
»2026 + Dev, AM
»2026 + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2021									
Stream B-ACD	D1	0.4	16.98	0.28	C	D2	0.3	15.95	0.25	C
Stream A-BCD		0.7	11.05	0.42	B		0.7	10.91	0.40	B
Stream D-AB		0.4	9.79	0.28	A		1.4	15.96	0.58	C
Stream D-BC		0.2	12.70	0.20	B		0.2	13.80	0.20	B
Stream C-ABD		0.0	6.39	0.01	A		0.1	5.64	0.04	A
	2026									
Stream B-ACD	D3	0.6	21.45	0.37	C	D4	0.4	17.89	0.27	C
Stream A-BCD		0.6	10.25	0.36	B		0.7	11.85	0.41	B
Stream D-AB		0.5	10.71	0.32	B		1.7	20.25	0.64	C
Stream D-BC		0.6	20.46	0.38	C		0.3	17.70	0.26	C
Stream C-ABD		0.0	6.33	0.01	A		0.1	5.18	0.05	A
	2026 + Dev									
Stream B-ACD	D5	0.8	27.16	0.45	D	D6	0.4	20.30	0.31	C
Stream A-BCD		0.8	11.87	0.44	B		1.1	15.05	0.53	C
Stream D-AB		1.6	24.57	0.62	C		2.8	30.72	0.75	D
Stream D-BC		1.8	45.17	0.66	E		0.7	28.85	0.42	D
Stream C-ABD		0.0	6.25	0.01	A		0.1	5.09	0.05	A

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

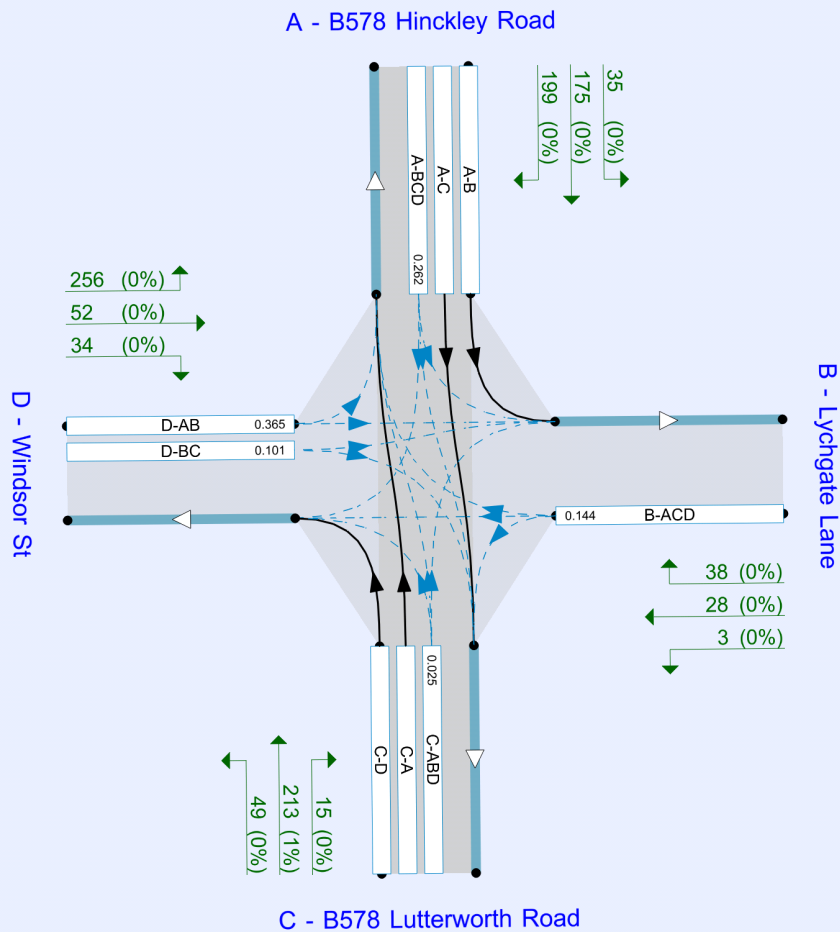
File summary

File Description

Title	Lutterworth Road / Lychgate Lane Crossroads
Location	
Site number	
Date	27/10/2023
Version	
Status	Existing
Identifier	
Client	Redrow Homes
Jobnumber	P21-390
Enumerator	
Description	

Units

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



Flows show original traffic demand (Veh/hr).
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021	AM	ONE HOUR	07:45	09:15	15
D2	2021	PM	ONE HOUR	16:45	18:15	15
D3	2026	AM	ONE HOUR	07:45	09:15	15
D4	2026	PM	ONE HOUR	16:45	18:15	15
D5	2026 + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2026 + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Lutterworth Road/ Lychgate Lane crossroads	Crossroads	Two-way	Two-way	Two-way	Two-way		5.18	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.18	A

Arms

Arms

Arm	Name	Description	Arm type
A	B578 Hinckley Road		Major
B	Lychgate Lane		Minor
C	B578 Lutterworth Road		Major
D	Windsor St		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - B578 Hinckley Road	6.50			85.0	✓	10.00
C - B578 Lutterworth Road	6.50			45.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Lychgate Lane	One lane	2.60								24	23
D - Windsor St	One lane plus flare		10.00	4.00	3.30	3.20	2.90		1.00	34	16

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
A-D	623	-	-	-	-	-	-	0.236	0.337	0.236	-	-	-
B-A	477	0.085	0.215	0.215	-	-	-	0.135	0.307	-	0.215	0.215	0.107
B-C	613	0.092	0.232	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	477	0.085	0.215	0.215	-	-	-	0.135	0.307	0.135	-	-	-
B-D, offside lane	477	0.085	0.215	0.215	-	-	-	0.135	0.307	0.135	-	-	-
C-B	600	0.227	0.227	0.325	-	-	-	-	-	-	-	-	-
D-A	677	-	-	-	-	-	-	0.257	-	0.101	-	-	-
D-B, nearside lane	530	0.150	0.150	0.341	-	-	-	0.239	0.239	0.094	-	-	-
D-B, offside lane	596	0.169	0.169	0.383	-	-	-	0.268	0.268	0.106	-	-	-
D-C	596	-	0.169	0.383	0.134	0.268	0.268	0.268	0.268	0.106	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B578 Hinckley Road		✓	650	100.000
B - Lychgate Lane		✓	74	100.000
C - B578 Lutterworth Road		✓	189	100.000
D - Windsor St		✓	193	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	24	412	214
	B - Lychgate Lane	35	0	10	29
	C - B578 Lutterworth Road	147	3	0	39
	D - Windsor St	107	38	48	0

Vehicle Mix

Heavy Vehicle %

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	0	0	2
	B - Lychgate Lane	0	0	0	0
	C - B578 Lutterworth Road	3	0	0	0
	D - Windsor St	1	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.28	16.98	0.4	C
A-BCD	0.42	11.05	0.7	B
A-B				
A-C				
D-AB	0.28	9.79	0.4	A
D-BC	0.20	12.70	0.2	B
C-ABD	0.01	6.39	0.0	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	56	358	0.156	55	0.2	11.856	B
A-BCD	161	577	0.279	160	0.4	8.594	A
A-B	18			18			
A-C	310			310			
D-AB	96	563	0.171	95	0.2	7.688	A
D-BC	49	435	0.113	49	0.1	9.317	A
C-ABD	3	574	0.005	3	0.0	6.299	A
C-D	29			29			
C-A	110			110			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	67	331	0.201	66	0.2	13.587	B
A-BCD	192	570	0.337	192	0.5	9.497	A
A-B	22			22			
A-C	370			370			
D-AB	115	542	0.212	115	0.3	8.421	A
D-BC	58	401	0.145	58	0.2	10.487	B
C-ABD	4	571	0.007	4	0.0	6.339	A
C-D	35			35			
C-A	131			131			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	81	294	0.277	81	0.4	16.880	C
A-BCD	236	561	0.420	235	0.7	10.994	B
A-B	26			26			
A-C	454			454			
D-AB	142	510	0.278	141	0.4	9.757	A
D-BC	71	354	0.199	70	0.2	12.656	B
C-ABD	5	569	0.009	5	0.0	6.381	A
C-D	43			43			
C-A	160			160			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	81	293	0.278	81	0.4	16.977	C
A-BCD	236	561	0.420	236	0.7	11.048	B
A-B	26			26			
A-C	454			454			
D-AB	142	510	0.278	142	0.4	9.791	A
D-BC	71	354	0.200	71	0.2	12.704	B
C-ABD	5	569	0.009	5	0.0	6.388	A
C-D	43			43			
C-A	160			160			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	67	331	0.201	67	0.3	13.686	B
A-BCD	192	570	0.337	193	0.5	9.564	A
A-B	22			22			
A-C	370			370			
D-AB	115	542	0.213	116	0.3	8.458	A
D-BC	58	401	0.146	59	0.2	10.538	B
C-ABD	4	571	0.007	4	0.0	6.353	A
C-D	35			35			
C-A	131			131			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	56	357	0.156	56	0.2	11.961	B
A-BCD	161	577	0.279	162	0.4	8.678	A
A-B	18			18			
A-C	310			310			
D-AB	96	562	0.171	96	0.2	7.734	A
D-BC	49	434	0.114	49	0.1	9.374	A
C-ABD	3	574	0.005	3	0.0	6.313	A
C-D	29			29			
C-A	110			110			

2021, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Lutterworth Road/ Lychgate Lane crossroads	Crossroads	Two-way	Two-way	Two-way	Two-way		7.95	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.95	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2021	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B578 Hinckley Road		✓	409	100.000
B - Lychgate Lane		✓	69	100.000
C - B578 Lutterworth Road		✓	277	100.000
D - Windsor St		✓	342	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	35	175	199
	B - Lychgate Lane	38	0	3	28
	C - B578 Lutterworth Road	213	15	0	49
	D - Windsor St	256	52	34	0

Vehicle Mix

Heavy Vehicle %

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	0	0	0
	B - Lychgate Lane	0	0	0	0
	C - B578 Lutterworth Road	1	0	0	0
	D - Windsor St	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.25	15.95	0.3	C
ABCD	0.40	10.91	0.7	B
A-B				
A-C				
D-AB	0.58	15.96	1.4	C
D-BC	0.20	13.80	0.2	B
C-ABD	0.04	5.64	0.1	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	52	361	0.144	51	0.2	11.601	B
ABCD	150	572	0.262	148	0.4	8.463	A
A-B	26			26			
A-C	132			132			
D-AB	213	584	0.365	211	0.6	9.599	A
D-BC	44	438	0.101	44	0.1	9.111	A
C-ABD	16	656	0.025	16	0.0	5.628	A
C-D	36			36			
C-A	156			156			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	62	336	0.184	62	0.2	13.108	B
ABCD	179	563	0.318	178	0.5	9.359	A
A-B	31			31			
A-C	157			157			
D-AB	255	566	0.451	254	0.8	11.507	B
D-BC	52	395	0.132	52	0.2	10.483	B
C-ABD	21	668	0.031	21	0.0	5.558	A
C-D	43			43			
C-A	185			185			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	76	302	0.251	76	0.3	15.853	C
ABCD	219	549	0.399	218	0.7	10.864	B
A-B	39			39			
A-C	193			193			
D-AB	313	539	0.581	311	1.3	15.660	C
D-BC	63	326	0.194	63	0.2	13.675	B
C-ABD	29	687	0.042	28	0.1	5.462	A
C-D	52			52			
C-A	225			225			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	76	302	0.252	76	0.3	15.948	C
ABCD	219	549	0.399	219	0.7	10.914	B
A-B	39			39			
A-C	193			193			
D-AB	313	538	0.582	313	1.4	15.959	C
D-BC	63	324	0.195	63	0.2	13.802	B
C-ABD	29	687	0.042	29	0.1	5.466	A
C-D	52			52			
C-A	225			225			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	62	335	0.185	62	0.2	13.206	B
ABCD	179	562	0.318	180	0.5	9.423	A
A-B	31			31			
A-C	157			157			
D-AB	255	566	0.451	257	0.8	11.754	B
D-BC	52	393	0.133	53	0.2	10.572	B
C-ABD	21	668	0.031	21	0.0	5.568	A
C-D	43			43			
C-A	185			185			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	52	360	0.144	52	0.2	11.704	B
ABCD	150	572	0.262	150	0.4	8.539	A
A-B	26			26			
A-C	132			132			
D-AB	213	584	0.366	214	0.6	9.780	A
D-BC	44	436	0.101	44	0.1	9.181	A
C-ABD	16	655	0.025	16	0.0	5.638	A
C-D	36			36			
C-A	156			156			

2026, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Lutterworth Road/ Lychgate Lane crossroads	Crossroads	Two-way	Two-way	Two-way	Two-way		5.61	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.61	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2026	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B578 Hinckley Road		✓	766	100.000
B - Lychgate Lane		✓	89	100.000
C - B578 Lutterworth Road		✓	222	100.000
D - Windsor St		✓	246	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	23	560	183
	B - Lychgate Lane	34	0	17	38
	C - B578 Lutterworth Road	177	3	0	42
	D - Windsor St	119	42	85	0

Vehicle Mix

Heavy Vehicle %

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	0	0	2
	B - Lychgate Lane	0	0	0	0
	C - B578 Lutterworth Road	3	0	0	0
	D - Windsor St	1	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.37	21.45	0.6	C
ABCD	0.36	10.25	0.6	B
A-B				
A-C				
D-AB	0.32	10.71	0.5	B
D-BC	0.38	20.46	0.6	C
C-ABD	0.01	6.33	0.0	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	67	342	0.196	66	0.2	13.011	B
ABCD	138	571	0.241	137	0.3	8.260	A
A-B	17			17			
A-C	422			422			
D-AB	108	599	0.181	107	0.2	7.312	A
D-BC	77	369	0.209	76	0.3	12.262	B
C-ABD	3	577	0.005	3	0.0	6.275	A
C-D	31			31			
C-A	133			133			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	80	310	0.258	80	0.3	15.587	C
ABCD	165	563	0.292	164	0.4	9.009	A
A-B	21			21			
A-C	503			503			
D-AB	130	562	0.232	130	0.3	8.320	A
D-BC	91	335	0.272	91	0.4	14.720	B
C-ABD	4	575	0.007	4	0.0	6.300	A
C-D	37			37			
C-A	158			158			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	98	266	0.368	97	0.6	21.205	C
ABCD	201	553	0.365	201	0.6	10.213	B
A-B	25			25			
A-C	617			617			
D-AB	162	499	0.324	161	0.5	10.617	B
D-BC	109	286	0.383	108	0.6	20.199	C
C-ABD	6	575	0.010	6	0.0	6.320	A
C-D	46			46			
C-A	193			193			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	98	266	0.369	98	0.6	21.450	C
ABCD	201	553	0.365	201	0.6	10.247	B
A-B	25			25			
A-C	617			617			
D-AB	162	498	0.325	162	0.5	10.709	B
D-BC	109	285	0.383	109	0.6	20.457	C
C-ABD	6	575	0.010	6	0.0	6.327	A
C-D	46			46			
C-A	193			193			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	80	310	0.258	81	0.4	15.789	C
ABCD	165	563	0.292	165	0.4	9.054	A
A-B	21			21			
A-C	503			503			
D-AB	130	561	0.232	131	0.3	8.390	A
D-BC	91	334	0.272	92	0.4	14.925	B
C-ABD	4	575	0.007	4	0.0	6.315	A
C-D	37			37			
C-A	158			158			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	67	341	0.196	67	0.2	13.169	B
ABCD	138	571	0.241	138	0.3	8.322	A
A-B	17			17			
A-C	422			422			
D-AB	108	597	0.181	109	0.2	7.368	A
D-BC	77	368	0.209	77	0.3	12.425	B
C-ABD	3	576	0.006	3	0.0	6.286	A
C-D	31			31			
C-A	133			133			

2026, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Lutterworth Road/ Lychgate Lane crossroads	Crossroads	Two-way	Two-way	Two-way	Two-way		8.36	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.36	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2026	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B578 Hinckley Road		✓	452	100.000
B - Lychgate Lane		✓	69	100.000
C - B578 Lutterworth Road		✓	398	100.000
D - Windsor St		✓	350	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	33	225	194
	B - Lychgate Lane	36	0	3	30
	C - B578 Lutterworth Road	294	15	0	89
	D - Windsor St	253	57	40	0

Vehicle Mix

Heavy Vehicle %

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	0	0	0
	B - Lychgate Lane	0	0	0	0
	C - B578 Lutterworth Road	1	0	0	0
	D - Windsor St	1	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.27	17.89	0.4	C
ABCD	0.41	11.85	0.7	B
A-B				
A-C				
D-AB	0.64	20.25	1.7	C
D-BC	0.26	17.70	0.3	C
C-ABD	0.05	5.18	0.1	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	52	345	0.151	51	0.2	12.257	B
ABCD	146	551	0.265	145	0.4	8.834	A
A-B	25			25			
A-C	169			169			
D-AB	213	553	0.386	211	0.6	10.444	B
D-BC	50	411	0.122	50	0.1	9.938	A
C-ABD	19	715	0.026	19	0.0	5.173	A
C-D	65			65			
C-A	215			215			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	62	316	0.196	62	0.2	14.118	B
ABCD	174	537	0.325	174	0.5	9.912	A
A-B	30			30			
A-C	202			202			
D-AB	255	529	0.483	254	0.9	13.039	B
D-BC	59	361	0.164	59	0.2	11.920	B
C-ABD	25	740	0.034	25	0.0	5.035	A
C-D	77			77			
C-A	255			255			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	76	278	0.273	75	0.4	17.742	C
ABCD	214	517	0.413	213	0.7	11.789	B
A-B	36			36			
A-C	248			248			
D-AB	314	492	0.638	311	1.7	19.577	C
D-BC	71	278	0.258	71	0.3	17.373	C
C-ABD	36	777	0.047	36	0.1	4.856	A
C-D	93			93			
C-A	309			309			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	76	277	0.274	76	0.4	17.888	C
ABCD	214	517	0.413	214	0.7	11.854	B
A-B	36			36			
A-C	248			248			
D-AB	314	491	0.639	314	1.7	20.250	C
D-BC	71	275	0.260	71	0.3	17.702	C
C-ABD	36	777	0.047	36	0.1	4.861	A
C-D	93			93			
C-A	309			309			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	62	315	0.197	63	0.2	14.260	B
ABCD	174	537	0.325	175	0.5	9.986	A
A-B	30			30			
A-C	202			202			
D-AB	255	528	0.483	258	1.0	13.483	B
D-BC	59	358	0.165	60	0.2	12.096	B
C-ABD	25	740	0.034	25	0.0	5.044	A
C-D	77			77			
C-A	255			255			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	52	343	0.151	52	0.2	12.371	B
ABCD	146	551	0.265	147	0.4	8.920	A
A-B	25			25			
A-C	169			169			
D-AB	213	552	0.386	215	0.6	10.704	B
D-BC	50	409	0.122	50	0.1	10.039	B
C-ABD	19	714	0.027	19	0.0	5.180	A
C-D	65			65			
C-A	215			215			

2026 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Lutterworth Road/ Lychgate Lane crossroads	Crossroads	Two-way	Two-way	Two-way	Two-way		11.21	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	11.21	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2026 + Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B578 Hinckley Road		✓	808	100.000
B - Lychgate Lane		✓	99	100.000
C - B578 Lutterworth Road		✓	250	100.000
D - Windsor St		✓	355	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	23	565	220
	B - Lychgate Lane	34	0	18	47
	C - B578 Lutterworth Road	185	4	0	61
	D - Windsor St	176	53	126	0

Vehicle Mix

Heavy Vehicle %

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	0	0	2
	B - Lychgate Lane	0	0	0	0
	C - B578 Lutterworth Road	3	0	0	0
	D - Windsor St	1	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.45	27.16	0.8	D
ABCD	0.44	11.87	0.8	B
A-B				
A-C				
D-AB	0.62	24.57	1.6	C
D-BC	0.66	45.17	1.8	E
C-ABD	0.01	6.25	0.0	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	75	327	0.228	73	0.3	14.143	B
ABCD	166	566	0.293	164	0.4	8.918	A
A-B	17			17			
A-C	425			425			
D-AB	158	567	0.278	156	0.4	8.730	A
D-BC	109	348	0.315	108	0.4	14.904	B
C-ABD	4	583	0.008	4	0.0	6.222	A
C-D	46			46			
C-A	138			138			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	89	292	0.305	88	0.4	17.665	C
ABCD	198	557	0.355	197	0.5	9.980	A
A-B	21			21			
A-C	508			508			
D-AB	191	509	0.375	190	0.6	11.263	B
D-BC	129	304	0.423	128	0.7	20.254	C
C-ABD	6	583	0.010	6	0.0	6.233	A
C-D	54			54			
C-A	165			165			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	109	242	0.450	108	0.8	26.479	D
ABCD	242	546	0.444	241	0.8	11.793	B
A-B	25			25			
A-C	622			622			
D-AB	238	393	0.606	235	1.4	22.272	C
D-BC	153	234	0.654	149	1.7	40.731	E
C-ABD	8	585	0.014	8	0.0	6.231	A
C-D	66			66			
C-A	201			201			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	109	241	0.452	109	0.8	27.157	D
ABCD	242	546	0.444	242	0.8	11.865	B
A-B	25			25			
A-C	622			622			
D-AB	239	384	0.622	238	1.6	24.573	C
D-BC	152	230	0.661	152	1.8	45.174	E
C-ABD	8	585	0.014	8	0.0	6.241	A
C-D	66			66			
C-A	201			201			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	89	290	0.306	90	0.5	18.112	C
ABCD	198	557	0.355	199	0.6	10.061	B
A-B	21			21			
A-C	508			508			
D-AB	191	500	0.382	195	0.6	11.924	B
D-BC	128	301	0.425	132	0.8	21.770	C
C-ABD	6	582	0.010	6	0.0	6.252	A
C-D	54			54			
C-A	165			165			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	75	326	0.229	75	0.3	14.389	B
ABCD	166	566	0.293	166	0.4	9.014	A
A-B	17			17			
A-C	425			425			
D-AB	158	563	0.280	159	0.4	8.918	A
D-BC	109	346	0.316	110	0.5	15.373	C
C-ABD	4	582	0.008	4	0.0	6.237	A
C-D	46			46			
C-A	138			138			

2026 + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Lutterworth Road/ Lychgate Lane crossroads	Crossroads	Two-way	Two-way	Two-way	Two-way		12.11	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	12.11	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2026 + Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B578 Hinckley Road		✓	507	100.000
B - Lychgate Lane		✓	72	100.000
C - B578 Lutterworth Road		✓	444	100.000
D - Windsor St		✓	390	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	33	232	242
	B - Lychgate Lane	36	0	3	33
	C - B578 Lutterworth Road	297	15	0	132
	D - Windsor St	273	60	57	0

Vehicle Mix

Heavy Vehicle %

	To				
From		A - B578 Hinckley Road	B - Lychgate Lane	C - B578 Lutterworth Road	D - Windsor St
	A - B578 Hinckley Road	0	0	0	0
	B - Lychgate Lane	0	0	0	0
	C - B578 Lutterworth Road	1	0	0	0
	D - Windsor St	1	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.31	20.30	0.4	C
ABCD	0.53	15.05	1.1	C
A-B				
A-C				
D-AB	0.75	30.72	2.8	D
D-BC	0.42	28.85	0.7	D
C-ABD	0.05	5.09	0.1	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	54	331	0.164	53	0.2	12.922	B
ABCD	182	543	0.336	180	0.5	9.881	A
A-B	25			25			
A-C	175			175			
D-AB	230	538	0.428	228	0.7	11.476	B
D-BC	63	385	0.164	62	0.2	11.123	B
C-ABD	20	729	0.028	20	0.0	5.079	A
C-D	97			97			
C-A	217			217			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	65	300	0.215	64	0.3	15.232	C
ABCD	218	527	0.413	217	0.7	11.576	B
A-B	30			30			
A-C	209			209			
D-AB	276	508	0.543	274	1.1	15.290	C
D-BC	74	325	0.229	74	0.3	14.347	B
C-ABD	28	758	0.036	27	0.0	4.927	A
C-D	114			114			
C-A	257			257			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	79	258	0.307	79	0.4	20.016	C
ABCD	267	506	0.527	265	1.1	14.864	B
A-B	36			36			
A-C	255			255			
D-AB	340	457	0.744	334	2.6	28.027	D
D-BC	89	220	0.406	88	0.7	26.913	D
C-ABD	40	801	0.050	40	0.1	4.733	A
C-D	138			138			
C-A	310			310			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	79	256	0.309	79	0.4	20.298	C
ABCD	267	506	0.527	267	1.1	15.048	C
A-B	36			36			
A-C	255			255			
D-AB	340	455	0.748	340	2.8	30.719	D
D-BC	89	214	0.418	89	0.7	28.847	D
C-ABD	40	800	0.051	40	0.1	4.739	A
C-D	138			138			
C-A	310			310			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	65	299	0.217	65	0.3	15.473	C
ABCD	218	527	0.413	219	0.7	11.753	B
A-B	30			30			
A-C	209			209			
D-AB	276	506	0.546	282	1.2	16.497	C
D-BC	74	318	0.234	76	0.3	14.931	B
C-ABD	28	757	0.036	28	0.1	4.936	A
C-D	114			114			
C-A	257			257			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-ACD	54	330	0.164	55	0.2	13.091	B
ABCD	182	543	0.336	183	0.5	10.036	B
A-B	25			25			
A-C	175			175			
D-AB	231	537	0.429	232	0.8	11.880	B
D-BC	63	382	0.165	64	0.2	11.318	B
C-ABD	20	728	0.028	20	0.0	5.088	A
C-D	97			97			
C-A	217			217			