



Norwich Western Link

Transport Assessment - Appendix 11 – Junction Model Results

Sub Appendix 11c – Junction 4 B1535 Marl Hill/ A1067 Fakenham Road ‘T’ junction

Author: WSP

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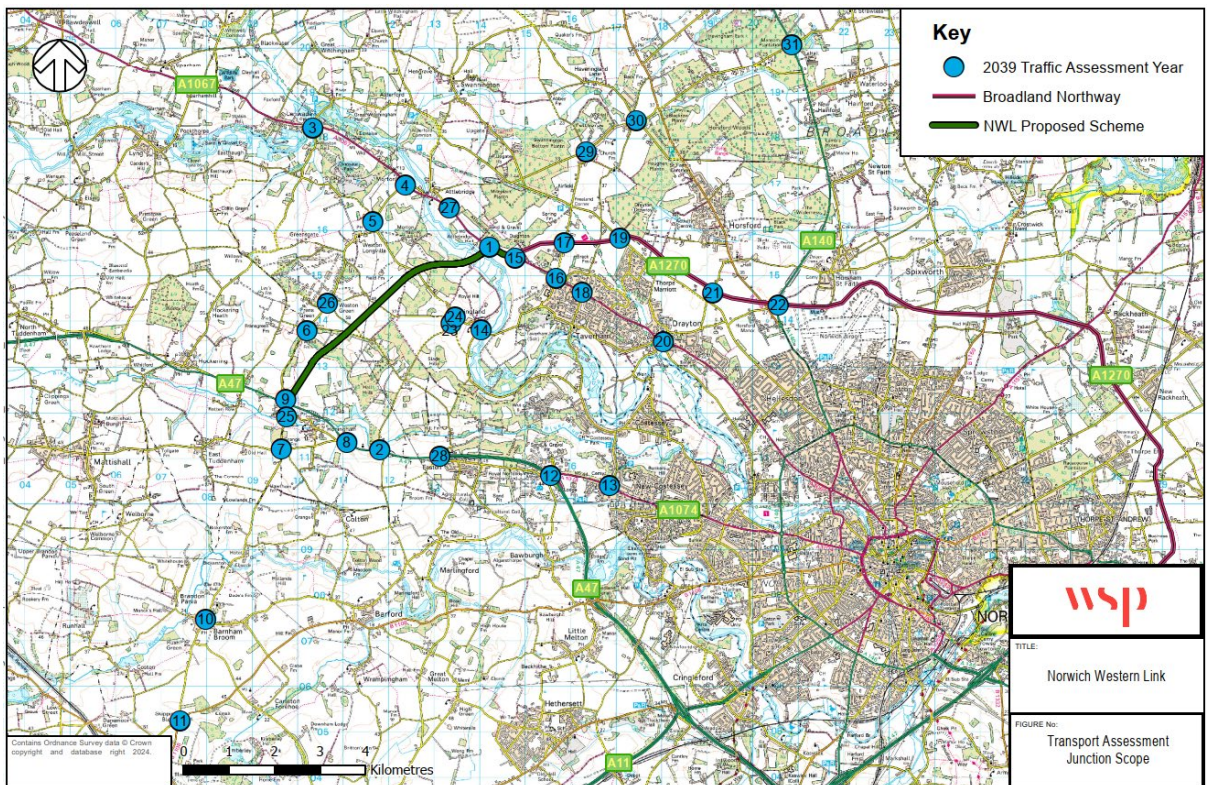
1 Junction Model Results

1.1.1 Junctions 10 modelling software output file that shows the junction capacity results for Junction 4 of the TA.

1.1.2 We have included a summary of key information shown in this document in an accessible format. However, some users may not be able to access all technical details. If you require this document in a more accessible format please contact norwichwesternlink@norfolk.gov.uk

1.1.3 The TA scope map is shown below as a location plan.

Figure 1-1 Junction Assessment Scope



1.1.4 The model results are presented for 2029 and 2039 future assessment years for AM and PM peak hours, taking 7.30-8.30am and AM peak and 5pm-6pm as PM peak.



1.1.5 The scenarios tested are as follows:

- Do Minimum – the baseline future situation with committed developments and planned highway improvements but without the Proposed Scheme.
- Do Something - the baseline future situation with the Proposed Scheme.
- Do Something + Mitigation - the baseline future situation with the Proposed Scheme added plus a package of traffic mitigation measures in the wider network (north of A1067 and south of A47 plus Honingham Lane closure).



J4 - B1535 Marl Hill/ A1067 Fakenham Road 'T' junction

<h1>Junctions 10</h1>
<h2>PICADY 10 - Priority Intersection Module</h2>
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Report generation date: 29/01/2024 15:19:07

-
- »2029DM, AM
 - »2029DM, PM
 - »2029DS, AM
 - »2029DS, PM
 - »2029DS_Mitigation, AM
 - »2029DS_Mitigation, PM
 - »2039DM, AM
 - »2039DM, PM
 - »2039DS, AM
 - »2039DS, PM
 - »2039DS_Mitigation, AM
 - »2039DS_Mitigation, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
2029DM										
Stream B-C	D1	3.2	237.50	0.92	F	D2	0.4	26.90	0.28	D
Stream B-AD		8.7	131.98	0.96	F		3.5	54.77	0.80	F
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-ABC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.8	4.75	0.21	A		0.1	4.82	0.04	A
2029DS										
Stream B-C	D3	0.0	6.66	0.04	A	D4	0.1	7.19	0.08	A
Stream B-AD		0.0	13.90	0.03	B		0.0	13.49	0.04	B
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-ABC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.2	4.48	0.09	A		0.0	4.71	0.03	A
2029DS_Mitigation										
Stream B-C	D5	0.0	6.59	0.03	A	D6	0.1	7.05	0.08	A
Stream B-AD		0.0	13.63	0.02	B		0.0	13.34	0.02	B
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-ABC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.1	4.37	0.05	A		0.0	4.70	0.03	A
2039DM										
Stream B-C	D7	3.9	373.64	1.10	F	D8	3.0	204.63	0.94	F
Stream B-AD		16.7	241.72	1.09	F		7.4	106.42	0.93	F
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-ABC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		1.1	4.43	0.25	A		0.1	4.69	0.05	A
2039DS										
Stream B-C	D9	0.0	6.69	0.03	A	D10	0.1	7.18	0.07	A
Stream B-AD		0.0	14.33	0.02	B		0.0	13.96	0.05	B
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-ABC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.5	4.64	0.16	A		0.0	4.54	0.03	A
2039DS_Mitigation										
Stream B-C	D11	0.0	6.70	0.03	A	D12	0.1	7.13	0.07	A
Stream B-AD		0.0	14.38	0.02	B		0.0	14.07	0.03	B
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-ABC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.1	4.30	0.06	A		0.0	4.55	0.03	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.

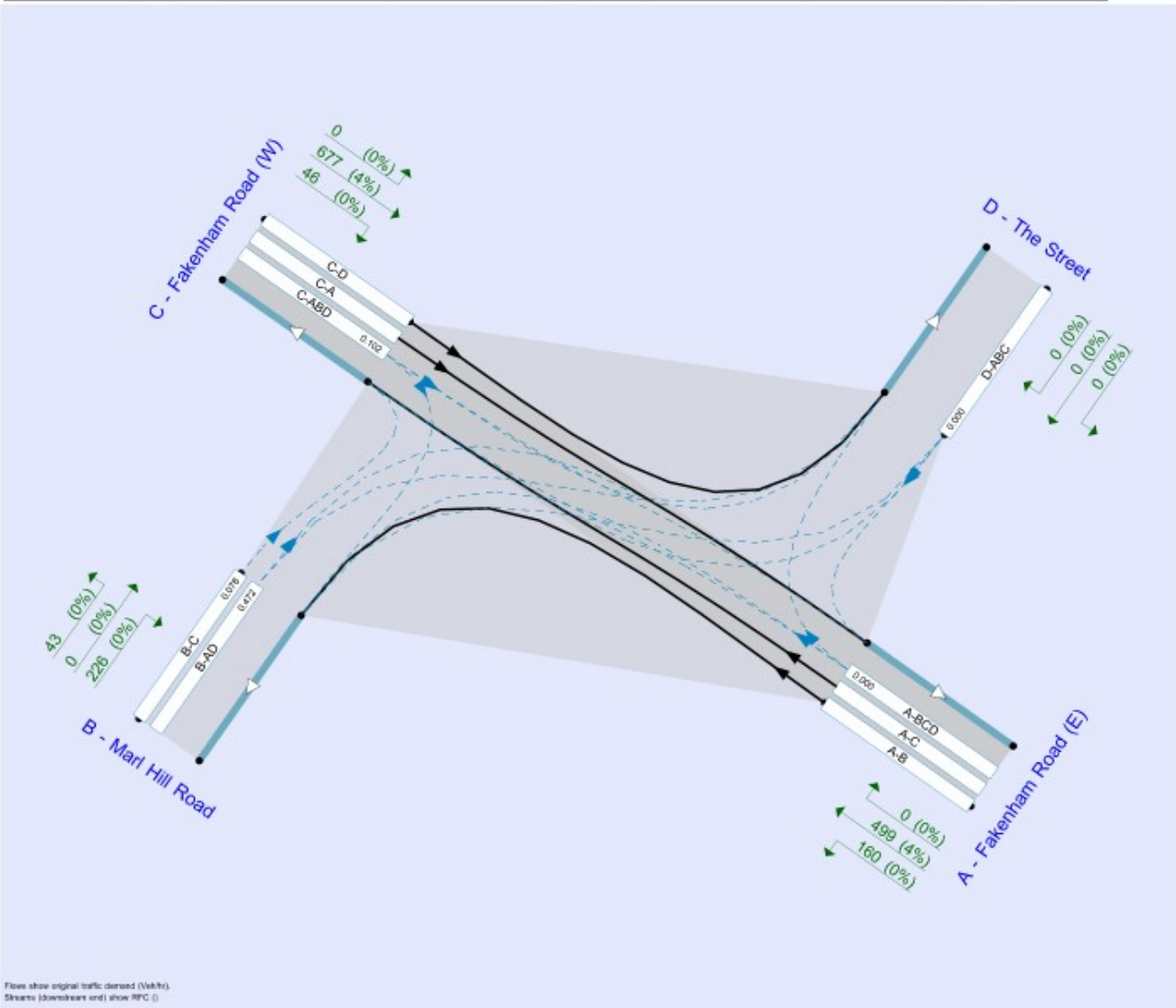
File summary

File Description

Title	Marl Hill Road/ The Street/ Fakenham Road
Location	52.70888599078724, 1.1424562079282952
Site number	J4
Date	26/04/2023
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CORP\INAL03507
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	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	38.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029DM	AM	ONE HOUR	07:15	08:45	15	✓
D2	2029DM	PM	ONE HOUR	16:45	18:15	15	✓
D3	2029DS	AM	ONE HOUR	07:15	08:45	15	✓
D4	2029DS	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓
D6	2029DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓
D7	2039DM	AM	ONE HOUR	07:15	08:45	15	✓
D8	2039DM	PM	ONE HOUR	16:45	18:15	15	✓
D9	2039DS	AM	ONE HOUR	07:15	08:45	15	✓
D10	2039DS	PM	ONE HOUR	16:45	18:15	15	✓
D11	2039DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓
D12	2039DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2029DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		24.12	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	24.12	C

Arms

Arms

Arm	Name	Description	Arm type
A	Fakenham Road (E)		Major
B	Marl Hill Road		Minor
C	Fakenham Road (W)		Major
D	The Street		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 - Fakenham Road (E)	6.55			32.2	✓	0.00
C - Fakenham Road (W)	6.55			32.4	✓	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 - Marl Hill Road	One lane plus flare		10.00	7.20	4.70	3.50	3.20	✓	1.00	57	37
D - The Street	One lane	3.92								87	35

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
A-D	593	-	-	-	0.224	0.224	0.224	-	0.224	-	-
B-AD	573	0.102	0.257	-	-	-	0.162	0.368	0.162	0.102	0.257
B-C	625	0.093	0.236	-	-	-	-	-	-	0.093	0.236
C-B	593	0.224	0.224	-	-	-	-	-	-	0.224	0.224
D-A	706	-	-	-	0.267	0.106	0.267	-	0.106	-	-
D-BC	571	0.162	0.162	0.367	0.257	0.102	0.257	-	0.102	-	-

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)	Run automatically
D1	2029DM	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	660	100.000
B - Marl Hill Road		ONE HOUR	✓	270	100.000
C - Fakenham Road (W)		ONE HOUR	✓	723	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	160	499	0
	B - Marl Hill Road	226	0	43	0
	C - Fakenham Road (W)	677	46	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.24	0.76	0.00
	B - Marl Hill Road	0.84	0.00	0.16	0.00
	C - Fakenham Road (W)	0.94	0.08	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	4	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	4	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.036	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.036	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	07:15-07:30	497	510
	07:30-07:45	593	609
	07:45-08:00	728	746
	08:00-08:15	728	746
	08:15-08:30	593	609
	08:30-08:45	497	510
B - Marl Hill Road	07:15-07:30	203	203
	07:30-07:45	242	242
	07:45-08:00	297	297
	08:00-08:15	297	297
	08:15-08:30	242	242
	08:30-08:45	203	203
C - Fakenham Road (W)	07:15-07:30	544	563
	07:30-07:45	650	672
	07:45-08:00	796	823
	08:00-08:15	796	823
	08:15-08:30	650	672
	08:30-08:45	544	563
D - The Street	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.92	237.50	3.2	F	40	59
B-AD	0.96	131.98	8.7	F	208	312
A-BCD	0.00	0.00	0.0	A	0	0
A-B					147	221
A-C					475	712
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.21	4.75	0.8	A	144	216
C-D					0	0
C-A					542	813

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	417	0.078	32	0.0	0.1	9.357	A
B-AD	171	43	361	0.472	167	0.0	0.9	18.238	C
A-BCD	0	0	436	0.000	0	0.0	0.0	0.000	A
A-B	121	30			121				
A-C	390	97			390				
D-ABC	0	0	388	0.000	0	0.0	0.0	0.000	A
C-ABD	88	22	866	0.102	87	0.0	0.2	4.722	A
C-D	0	0			0				
C-A	474	119			474				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	318	0.122	39	0.1	0.1	12.867	B
B-AD	204	51	319	0.638	201	0.9	1.6	29.556	D
A-BCD	0	0	405	0.000	0	0.0	0.0	0.000	A
A-B	144	36			144				
A-C	465	116			465				
D-ABC	0	0	336	0.000	0	0.0	0.0	0.000	A
C-ABD	129	32	927	0.139	129	0.2	0.4	4.617	A
C-D	0	0			0				
C-A	542	136			542				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	47	12	63	0.752	41	0.1	1.8	138.474	F
B-AD	249	62	260	0.959	230	1.6	6.5	88.238	F
A-BCD	0	0	362	0.000	0	0.0	0.0	0.000	A
A-B	177	44			177				
A-C	570	142			570				
D-ABC	0	0	260	0.000	0	0.0	0.0	0.000	A
C-ABD	212	53	1016	0.209	211	0.4	0.8	4.600	A
C-D	0	0			0				
C-A	611	153			611				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	47	12	51	0.924	42	1.8	3.2	237.502	F
B-AD	249	62	259	0.963	240	6.5	8.7	131.983	F
A-BCD	0	0	357	0.000	0	0.0	0.0	0.000	A
A-B	177	44			177				
A-C	570	142			570				
D-ABC	0	0	254	0.000	0	0.0	0.0	0.000	A
C-ABD	213	53	1017	0.210	213	0.8	0.8	4.622	A
C-D	0	0			0				
C-A	610	152			610				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	257	0.151	51	3.2	0.2	18.391	C
B-AD	204	51	317	0.643	230	8.7	2.0	50.646	F
A-BCD	0	0	397	0.000	0	0.0	0.0	0.000	A
A-B	144	38			144				
A-C	465	118			465				
D-ABC	0	0	326	0.000	0	0.0	0.0	0.000	A
C-ABD	130	33	929	0.140	132	0.8	0.4	4.656	A
C-D	0	0			0				
C-A	541	135			541				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	407	0.080	33	0.2	0.1	9.626	A
B-AD	171	43	361	0.472	175	2.0	0.9	19.751	C
A-BCD	0	0	434	0.000	0	0.0	0.0	0.000	A
A-B	121	30			121				
A-C	390	97			390				
D-ABC	0	0	385	0.000	0	0.0	0.0	0.000	A
C-ABD	89	22	867	0.103	90	0.4	0.2	4.749	A
C-D	0	0			0				
C-A	474	118			474				

2029DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		9.18	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.18	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029DM	PM	ONE HOUR	18:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	662	100.000
B - Marl Hill Road		ONE HOUR	✓	269	100.000
C - Fakenham Road (W)		ONE HOUR	✓	528	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	153	509	0
	B - Marl Hill Road	221	0	48	0
	C - Fakenham Road (W)	517	11	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.23	0.77	0.00
	B - Marl Hill Road	0.82	0.00	0.18	0.00
	C - Fakenham Road (W)	0.98	0.02	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To				
	A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street	
A - Fakenham Road (E)	0	0	2	0	
B - Marl Hill Road	0	0	0	0	
C - Fakenham Road (W)	1	0	0	0	
D - The Street	0	0	0	0	

Average PCU Per Veh

From	To				
	A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street	
A - Fakenham Road (E)	1.000	1.000	1.024	1.000	
B - Marl Hill Road	1.000	1.000	1.000	1.000	
C - Fakenham Road (W)	1.008	1.000	1.000	1.000	
D - The Street	1.000	1.000	1.000	1.000	

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	16:45-17:00	498	507
	17:00-17:15	595	606
	17:15-17:30	729	742
	17:30-17:45	729	742
	17:45-18:00	595	606
	18:00-18:15	498	507
B - Marl Hill Road	16:45-17:00	203	203
	17:00-17:15	242	242
	17:15-17:30	296	296
	17:30-17:45	296	296
	17:45-18:00	242	242
	18:00-18:15	203	203
C - Fakenham Road (W)	16:45-17:00	398	401
	17:00-17:15	475	479
	17:15-17:30	582	586
	17:30-17:45	582	586
	17:45-18:00	475	479
	18:00-18:15	398	401
D - The Street	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.28	26.90	0.4	D	44	66
B-AD	0.80	54.77	3.5	F	203	305
A-BCD	0.00	0.00	0.0	A	0	0
A-B					140	210
A-C					478	717
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.04	4.82	0.1	A	25	38
C-D					0	0
C-A					463	695

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	435	0.083	36	0.0	0.1	8.996	A
B-AD	167	42	392	0.425	164	0.0	0.7	15.590	C
A-BCD	0	0	467	0.000	0	0.0	0.0	0.000	A
A-B	115	29			115				
A-C	392	98			392				
D-ABC	0	0	427	0.000	0	0.0	0.0	0.000	A
C-ABD	17	4	767	0.022	17	0.0	0.0	4.816	A
C-D	0	0			0				
C-A	384	96			384				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	362	0.119	43	0.1	0.1	11.254	B
B-AD	199	50	356	0.559	197	0.7	1.2	22.324	C
A-BCD	0	0	442	0.000	0	0.0	0.0	0.000	A
A-B	137	34			137				
A-C	468	117			468				
D-ABC	0	0	383	0.000	0	0.0	0.0	0.000	A
C-ABD	23	6	807	0.029	23	0.0	0.0	4.615	A
C-D	0	0			0				
C-A	455	114			455				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	204	0.257	52	0.1	0.3	23.466	C
B-AD	244	61	306	0.797	236	1.2	3.1	47.120	E
A-BCD	0	0	408	0.000	0	0.0	0.0	0.000	A
A-B	168	42			168				
A-C	574	143			574				
D-ABC	0	0	322	0.000	0	0.0	0.0	0.000	A
C-ABD	36	9	865	0.041	36	0.0	0.1	4.364	A
C-D	0	0			0				
C-A	550	138			550				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	186	0.283	52	0.3	0.4	26.905	D
B-AD	244	61	305	0.798	242	3.1	3.5	54.772	F
A-BCD	0	0	406	0.000	0	0.0	0.0	0.000	A
A-B	168	42			168				
A-C	574	143			574				
D-ABC	0	0	319	0.000	0	0.0	0.0	0.000	A
C-ABD	36	9	865	0.041	36	0.1	0.1	4.367	A
C-D	0	0			0				
C-A	550	138			550				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	347	0.124	44	0.4	0.1	11.903	B
B-AD	199	50	356	0.559	208	3.5	1.3	25.425	D
A-BCD	0	0	440	0.000	0	0.0	0.0	0.000	A
A-B	137	34			137				
A-C	468	117			468				
D-ABC	0	0	380	0.000	0	0.0	0.0	0.000	A
C-ABD	23	8	807	0.029	24	0.1	0.0	4.620	A
C-D	0	0			0				
C-A	455	114			455				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	430	0.084	36	0.1	0.1	9.137	A
B-AD	167	42	392	0.425	169	1.3	0.8	16.302	C
A-BCD	0	0	466	0.000	0	0.0	0.0	0.000	A
A-B	115	29			115				
A-C	392	98			392				
D-ABC	0	0	425	0.000	0	0.0	0.0	0.000	A
C-ABD	17	4	767	0.022	17	0.0	0.0	4.818	A
C-D	0	0			0				
C-A	384	96			384				

2029DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.46	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2029DS	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	485	100.000
B - Marl Hill Road		ONE HOUR	✓	29	100.000
C - Fakenham Road (W)		ONE HOUR	✓	662	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	7	478	0
	B - Marl Hill Road	6	0	23	0
	C - Fakenham Road (W)	638	24	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.02	0.98	0.00
	B - Marl Hill Road	0.21	0.00	0.79	0.00
	C - Fakenham Road (W)	0.96	0.04	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	3	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	4	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.032	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.043	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	07:15-07:30	365	377
	07:30-07:45	438	450
	07:45-08:00	534	551
	08:00-08:15	534	551
	08:15-08:30	438	450
	08:30-08:45	365	377
B - Marl Hill Road	07:15-07:30	22	22
	07:30-07:45	28	28
	07:45-08:00	32	32
	08:00-08:15	32	32
	08:15-08:30	28	28
	08:30-08:45	22	22
C - Fakenham Road (W)	07:15-07:30	498	519
	07:30-07:45	595	620
	07:45-08:00	729	759
	08:00-08:15	729	759
	08:15-08:30	595	620
	08:30-08:45	498	519
D - The Street	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	6.66	0.0	A	21	31
B-AD	0.03	13.90	0.0	B	6	8
A-BCD	0.00	0.00	0.0	A	0	0
A-B					7	10
A-C					452	678
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.09	4.48	0.2	A	66	99
C-D					0	0
C-A					566	849

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	4	614	0.028	17	0.0	0.0	6.031	A
B-AD	5	1	340	0.014	5	0.0	0.0	10.727	B
A-BCD	0	0	479	0.000	0	0.0	0.0	0.000	A
A-B	6	1			6				
A-C	371	93			371				
D-ABC	0	0	457	0.000	0	0.0	0.0	0.000	A
C-ABD	42	11	868	0.049	42	0.0	0.1	4.465	A
C-D	0	0			0				
C-A	476	119			476				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	594	0.034	20	0.0	0.0	6.279	A
B-AD	6	1	309	0.018	6	0.0	0.0	11.865	B
A-BCD	0	0	457	0.000	0	0.0	0.0	0.000	A
A-B	7	2			7				
A-C	443	111			443				
D-ABC	0	0	421	0.000	0	0.0	0.0	0.000	A
C-ABD	61	15	927	0.065	60	0.1	0.1	4.264	A
C-D	0	0			0				
C-A	559	140			559				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	565	0.044	25	0.0	0.0	6.659	A
B-AD	7	2	266	0.026	7	0.0	0.0	13.897	B
A-BCD	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	8	2			8				
A-C	543	136			543				
D-ABC	0	0	371	0.000	0	0.0	0.0	0.000	A
C-ABD	96	24	1011	0.095	95	0.1	0.2	4.048	A
C-D	0	0			0				
C-A	663	166			663				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	565	0.044	25	0.0	0.0	6.660	A
B-AD	7	2	266	0.026	7	0.0	0.0	13.901	B
A-BCD	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	8	2			8				
A-C	543	136			543				
D-ABC	0	0	371	0.000	0	0.0	0.0	0.000	A
C-ABD	96	24	1011	0.095	96	0.2	0.2	4.055	A
C-D	0	0			0				
C-A	663	166			663				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	594	0.034	20	0.0	0.0	6.281	A
B-AD	6	1	309	0.018	6	0.0	0.0	11.889	B
A-BCD	0	0	457	0.000	0	0.0	0.0	0.000	A
A-B	7	2			7				
A-C	443	111			443				
D-ABC	0	0	421	0.000	0	0.0	0.0	0.000	A
C-ABD	61	15	927	0.066	61	0.2	0.1	4.283	A
C-D	0	0			0				
C-A	559	140			559				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	4	614	0.028	17	0.0	0.0	6.032	A
B-AD	5	1	340	0.014	5	0.0	0.0	10.731	B
A-BCD	0	0	479	0.000	0	0.0	0.0	0.000	A
A-B	6	1			6				
A-C	371	93			371				
D-ABC	0	0	457	0.000	0	0.0	0.0	0.000	A
C-ABD	43	11	888	0.049	43	0.1	0.1	4.479	A
C-D	0	0			0				
C-A	476	119			476				

2029DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.45	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2029DS	PM	ONE HOUR	18:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	552	100.000
B - Marl Hill Road		ONE HOUR	✓	50	100.000
C - Fakenham Road (W)		ONE HOUR	✓	520	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	4	548	0
	B - Marl Hill Road	11	0	39	0
	C - Fakenham Road (W)	513	8	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.01	0.99	0.00
	B - Marl Hill Road	0.22	0.00	0.78	0.00
	C - Fakenham Road (W)	0.99	0.01	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	2	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	1	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.020	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.007	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	16:45-17:00	416	424
	17:00-17:15	496	506
	17:15-17:30	608	620
	17:30-17:45	608	620
	17:45-18:00	496	506
	18:00-18:15	416	424
B - Marl Hill Road	16:45-17:00	37	37
	17:00-17:15	45	45
	17:15-17:30	55	55
	17:30-17:45	55	55
	17:45-18:00	45	45
	18:00-18:15	37	37
C - Fakenham Road (W)	16:45-17:00	392	394
	17:00-17:15	468	471
	17:15-17:30	573	577
	17:30-17:45	573	577
	17:45-18:00	468	471
	18:00-18:15	392	394
D - The Street	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	7.19	0.1	A	35	53
B-AD	0.04	13.49	0.0	B	10	15
A-BCD	0.00	0.00	0.0	A	0	0
A-B					4	6
A-C					513	769
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.03	4.71	0.0	A	17	25
C-D					0	0
C-A					464	696

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	599	0.049	29	0.0	0.1	6.315	A
B-AD	8	2	349	0.024	8	0.0	0.0	10.548	B
A-BCD	0	0	504	0.000	0	0.0	0.0	0.000	A
A-B	3	0.76			3				
A-C	421	105			421				
D-ABC	0	0	481	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	779	0.015	11	0.0	0.0	4.708	A
C-D	0	0			0				
C-A	383	96			383				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	576	0.060	35	0.1	0.1	6.654	A
B-AD	10	2	320	0.031	10	0.0	0.0	11.609	B
A-BCD	0	0	486	0.000	0	0.0	0.0	0.000	A
A-B	4	0.91			4				
A-C	502	126			502				
D-ABC	0	0	450	0.000	0	0.0	0.0	0.000	A
C-ABD	16	4	820	0.019	16	0.0	0.0	4.493	A
C-D	0	0			0				
C-A	455	114			455				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	543	0.078	42	0.1	0.1	7.187	A
B-AD	12	3	279	0.043	12	0.0	0.0	13.479	B
A-BCD	0	0	462	0.000	0	0.0	0.0	0.000	A
A-B	4	1			4				
A-C	615	154			615				
D-ABC	0	0	406	0.000	0	0.0	0.0	0.000	A
C-ABD	24	6	879	0.027	24	0.0	0.0	4.226	A
C-D	0	0			0				
C-A	553	138			553				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	543	0.078	43	0.1	0.1	7.187	A
B-AD	12	3	279	0.043	12	0.0	0.0	13.485	B
A-BCD	0	0	462	0.000	0	0.0	0.0	0.000	A
A-B	4	1			4				
A-C	615	154			615				
D-ABC	0	0	406	0.000	0	0.0	0.0	0.000	A
C-ABD	24	6	879	0.027	24	0.0	0.0	4.229	A
C-D	0	0			0				
C-A	553	138			553				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	576	0.080	35	0.1	0.1	6.657	A
B-AD	10	2	320	0.031	10	0.0	0.0	11.614	B
A-BCD	0	0	486	0.000	0	0.0	0.0	0.000	A
A-B	4	0.91			4				
A-C	502	126			502				
D-ABC	0	0	450	0.000	0	0.0	0.0	0.000	A
C-ABD	16	4	820	0.019	16	0.0	0.0	4.496	A
C-D	0	0			0				
C-A	455	114			455				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	599	0.049	29	0.1	0.1	6.320	A
B-AD	8	2	349	0.024	8	0.0	0.0	10.554	B
A-BCD	0	0	504	0.000	0	0.0	0.0	0.000	A
A-B	3	0.76			3				
A-C	421	105			421				
D-ABC	0	0	481	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	779	0.015	11	0.0	0.0	4.709	A
C-D	0	0			0				
C-A	383	96			383				

2029DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.30	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.30	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2029DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	484	100.000
B - Marl Hill Road		ONE HOUR	✓	23	100.000
C - Fakenham Road (W)		ONE HOUR	✓	653	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	5	479	0
	B - Marl Hill Road	5	0	18	0
	C - Fakenham Road (W)	640	13	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.01	0.99	0.00
	B - Marl Hill Road	0.22	0.00	0.78	0.00
	C - Fakenham Road (W)	0.98	0.02	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	3	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	4	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.032	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.042	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	07:15-07:30	365	376
	07:30-07:45	435	449
	07:45-08:00	533	550
	08:00-08:15	533	550
	08:15-08:30	435	449
	08:30-08:45	365	376
B - Marl Hill Road	07:15-07:30	17	17
	07:30-07:45	21	21
	07:45-08:00	25	25
	08:00-08:15	25	25
	08:15-08:30	21	21
	08:30-08:45	17	17
C - Fakenham Road (W)	07:15-07:30	491	512
	07:30-07:45	587	611
	07:45-08:00	718	748
	08:00-08:15	718	748
	08:15-08:30	587	611
	08:30-08:45	491	512
D - The Street	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	6.59	0.0	A	16	25
B-AD	0.02	13.63	0.0	B	5	7
A-BCD	0.00	0.00	0.0	A	0	0
A-B					5	8
A-C					453	680
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.05	4.37	0.1	A	36	55
C-D					0	0
C-A					587	881

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	614	0.022	13	0.0	0.0	5.995	A
B-AD	4	0.96	343	0.011	4	0.0	0.0	10.611	B
A-BCD	0	0	479	0.000	0	0.0	0.0	0.000	A
A-B	4	1			4				
A-C	372	93			372				
D-ABC	0	0	457	0.000	0	0.0	0.0	0.000	A
C-ABD	23	6	869	0.027	23	0.0	0.0	4.361	A
C-D	0	0			0				
C-A	488	122			488				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	594	0.027	16	0.0	0.0	6.232	A
B-AD	5	1	312	0.015	5	0.0	0.0	11.699	B
A-BCD	0	0	457	0.000	0	0.0	0.0	0.000	A
A-B	5	1			5				
A-C	444	111			444				
D-ABC	0	0	421	0.000	0	0.0	0.0	0.000	A
C-ABD	33	8	928	0.036	33	0.0	0.1	4.128	A
C-D	0	0			0				
C-A	578	144			578				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	566	0.035	20	0.0	0.0	6.593	A
B-AD	6	1	270	0.021	6	0.0	0.0	13.629	B
A-BCD	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	6	2			6				
A-C	544	136			544				
D-ABC	0	0	371	0.000	0	0.0	0.0	0.000	A
C-ABD	52	13	1012	0.052	52	0.0	0.1	3.860	A
C-D	0	0			0				
C-A	696	174			696				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	566	0.035	20	0.0	0.0	6.593	A
B-AD	6	1	270	0.021	6	0.0	0.0	13.630	B
A-BCD	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	6	2			6				
A-C	544	136			544				
D-ABC	0	0	371	0.000	0	0.0	0.0	0.000	A
C-ABD	53	13	1012	0.052	53	0.1	0.1	3.867	A
C-D	0	0			0				
C-A	696	174			696				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	594	0.027	16	0.0	0.0	6.236	A
B-AD	5	1	312	0.015	5	0.0	0.0	11.701	B
A-BCD	0	0	457	0.000	0	0.0	0.0	0.000	A
A-B	5	1			5				
A-C	444	111			444				
D-ABC	0	0	421	0.000	0	0.0	0.0	0.000	A
C-ABD	33	8	928	0.036	33	0.1	0.1	4.143	A
C-D	0	0			0				
C-A	578	144			578				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	614	0.022	14	0.0	0.0	5.997	A
B-AD	4	0.96	343	0.011	4	0.0	0.0	10.615	B
A-BCD	0	0	479	0.000	0	0.0	0.0	0.000	A
A-B	4	1			4				
A-C	372	93			372				
D-ABC	0	0	457	0.000	0	0.0	0.0	0.000	A
C-ABD	23	6	889	0.027	23	0.1	0.0	4.371	A
C-D	0	0			0				
C-A	488	122			488				

2029DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.38	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2029DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	548	100.000
B - Marl Hill Road		ONE HOUR	✓	43	100.000
C - Fakenham Road (W)		ONE HOUR	✓	521	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	4	544	0
	B - Marl Hill Road	6	0	38	0
	C - Fakenham Road (W)	513	7	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.01	0.99	0.00
	B - Marl Hill Road	0.13	0.00	0.87	0.00
	C - Fakenham Road (W)	0.99	0.01	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
		A - Fakenham Road (E)	0	0	2
B - Marl Hill Road		0	0	0	0
C - Fakenham Road (W)		1	0	0	0
D - The Street		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
		A - Fakenham Road (E)	1.000	1.000	1.020
B - Marl Hill Road		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.007	1.000	1.000	1.000
D - The Street		1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	16:45-17:00	412	420
	17:00-17:15	492	502
	17:15-17:30	603	615
	17:30-17:45	603	615
	17:45-18:00	492	502
	18:00-18:15	412	420
B - Marl Hill Road	16:45-17:00	33	33
	17:00-17:15	39	39
	17:15-17:30	48	48
	17:30-17:45	48	48
	17:45-18:00	39	39
	18:00-18:15	33	33
C - Fakenham Road (W)	16:45-17:00	392	395
	17:00-17:15	468	472
	17:15-17:30	573	577
	17:30-17:45	573	577
	17:45-18:00	468	472
	18:00-18:15	392	395
D - The Street	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	7.05	0.1	A	35	52
B-AD	0.02	13.34	0.0	B	5	8
A-BCD	0.00	0.00	0.0	A	0	0
A-B					3	5
A-C					509	764
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.03	4.70	0.0	A	16	25
C-D					0	0
C-A					465	697

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	606	0.047	28	0.0	0.0	6.226	A
B-AD	4	1	345	0.012	4	0.0	0.0	10.583	B
A-BCD	0	0	504	0.000	0	0.0	0.0	0.000	A
A-B	3	0.67			3				
A-C	418	104			418				
D-ABC	0	0	482	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	780	0.014	11	0.0	0.0	4.697	A
C-D	0	0			0				
C-A	384	96			384				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	34	8	583	0.058	34	0.0	0.1	6.549	A
B-AD	5	1	316	0.016	5	0.0	0.0	11.577	B
A-BCD	0	0	487	0.000	0	0.0	0.0	0.000	A
A-B	3	0.80			3				
A-C	499	125			499				
D-ABC	0	0	452	0.000	0	0.0	0.0	0.000	A
C-ABD	15	4	821	0.019	15	0.0	0.0	4.484	A
C-D	0	0			0				
C-A	456	114			456				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	552	0.075	41	0.1	0.1	7.050	A
B-AD	6	2	276	0.022	6	0.0	0.0	13.341	B
A-BCD	0	0	464	0.000	0	0.0	0.0	0.000	A
A-B	4	0.98			4				
A-C	611	153			611				
D-ABC	0	0	409	0.000	0	0.0	0.0	0.000	A
C-ABD	23	6	880	0.026	23	0.0	0.0	4.216	A
C-D	0	0			0				
C-A	555	139			555				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	552	0.075	41	0.1	0.1	7.051	A
B-AD	6	2	276	0.022	6	0.0	0.0	13.344	B
A-BCD	0	0	464	0.000	0	0.0	0.0	0.000	A
A-B	4	0.98			4				
A-C	611	153			611				
D-ABC	0	0	409	0.000	0	0.0	0.0	0.000	A
C-ABD	23	6	880	0.026	23	0.0	0.0	4.219	A
C-D	0	0			0				
C-A	555	139			555				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	34	8	583	0.058	34	0.1	0.1	6.554	A
B-AD	5	1	316	0.016	5	0.0	0.0	11.578	B
A-BCD	0	0	487	0.000	0	0.0	0.0	0.000	A
A-B	3	0.80			3				
A-C	499	125			499				
D-ABC	0	0	452	0.000	0	0.0	0.0	0.000	A
C-ABD	15	4	821	0.019	15	0.0	0.0	4.488	A
C-D	0	0			0				
C-A	456	114			456				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	606	0.047	28	0.1	0.0	6.231	A
B-AD	4	1	345	0.012	4	0.0	0.0	10.565	B
A-BCD	0	0	504	0.000	0	0.0	0.0	0.000	A
A-B	3	0.67			3				
A-C	418	104			418				
D-ABC	0	0	482	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	780	0.014	11	0.0	0.0	4.701	A
C-D	0	0			0				
C-A	384	96			384				

2039DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		35.61	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	35.61	E

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2039DM	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	719	100.000
B - Marl Hill Road		ONE HOUR	✓	256	100.000
C - Fakenham Road (W)		ONE HOUR	✓	864	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	196	523	0
	B - Marl Hill Road	222	0	34	0
	C - Fakenham Road (W)	820	44	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.27	0.73	0.00
	B - Marl Hill Road	0.87	0.00	0.13	0.00
	C - Fakenham Road (W)	0.95	0.05	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	3	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	4	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.034	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.037	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	07:15-07:30	542	555
	07:30-07:45	647	663
	07:45-08:00	792	812
	08:00-08:15	792	812
	08:15-08:30	647	663
	08:30-08:45	542	555
B - Marl Hill Road	07:15-07:30	193	193
	07:30-07:45	230	230
	07:45-08:00	282	282
	08:00-08:15	282	282
	08:15-08:30	230	230
	08:30-08:45	193	193
C - Fakenham Road (W)	07:15-07:30	650	673
	07:30-07:45	776	804
	07:45-08:00	951	985
	08:00-08:15	951	985
	08:15-08:30	776	804
	08:30-08:45	650	673
D - The Street	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	1.10	373.64	3.9	F	31	46
B-AD	1.09	241.72	16.7	F	204	306
A-BCD	0.00	0.00	0.0	A	0	0
A-B					180	270
A-C					497	745
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.25	4.43	1.1	A	183	274
C-D					0	0
C-A					638	957

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	8	399	0.064	25	0.0	0.1	9.631	A
B-AD	167	42	337	0.496	164	0.0	0.9	20.323	C
A-BCD	0	0	412	0.000	0	0.0	0.0	0.000	A
A-B	148	37			148				
A-C	408	102			408				
D-ABC	0	0	352	0.000	0	0.0	0.0	0.000	A
C-ABD	104	26	942	0.110	103	0.0	0.2	4.398	A
C-D	0	0			0				
C-A	569	142			569				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	278	0.109	30	0.1	0.1	14.500	B
B-AD	200	50	291	0.688	196	0.9	2.0	36.450	E
A-BCD	0	0	376	0.000	0	0.0	0.0	0.000	A
A-B	176	44			176				
A-C	487	122			487				
D-ABC	0	0	291	0.000	0	0.0	0.0	0.000	A
C-ABD	160	40	1020	0.156	159	0.2	0.4	4.296	A
C-D	0	0			0				
C-A	644	161			644				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	34	1.103	26	0.1	3.0	308.762	F
B-AD	245	61	226	1.082	211	2.0	10.4	136.758	F
A-BCD	0	0	326	0.000	0	0.0	0.0	0.000	A
A-B	216	54			216				
A-C	596	149			596				
D-ABC	0	0	200	0.000	0	0.0	0.0	0.000	A
C-ABD	282	71	1134	0.249	280	0.4	1.1	4.352	A
C-D	0	0			0				
C-A	702	176			702				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	39	0.962	33	3.0	3.9	373.636	F
B-AD	245	61	225	1.089	219	10.4	16.7	241.724	F
A-BCD	0	0	318	0.000	0	0.0	0.0	0.000	A
A-B	216	54			216				
A-C	596	149			596				
D-ABC	0	0	189	0.000	0	0.0	0.0	0.000	A
C-ABD	284	71	1136	0.250	284	1.1	1.1	4.385	A
C-D	0	0			0				
C-A	700	175			700				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	112	0.270	44	3.9	0.4	62.254	F
B-AD	200	50	287	0.696	255	16.7	2.9	129.343	F
A-BCD	0	0	361	0.000	0	0.0	0.0	0.000	A
A-B	176	44			176				
A-C	487	122			487				
D-ABC	0	0	272	0.000	0	0.0	0.0	0.000	A
C-ABD	161	40	1022	0.158	164	1.1	0.5	4.340	A
C-D	0	0			0				
C-A	643	161			643				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	383	0.066	27	0.4	0.1	10.133	B
B-AD	167	42	337	0.497	175	2.9	1.0	23.181	C
A-BCD	0	0	409	0.000	0	0.0	0.0	0.000	A
A-B	148	37			148				
A-C	408	102			408				
D-ABC	0	0	348	0.000	0	0.0	0.0	0.000	A
C-ABD	105	28	943	0.111	106	0.5	0.3	4.427	A
C-D	0	0			0				
C-A	568	142			568				

2039DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		21.86	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	21.86	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2039DM	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	720	100.000
B - Marl Hill Road		ONE HOUR	✓	287	100.000
C - Fakenham Road (W)		ONE HOUR	✓	583	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	199	521	0
	B - Marl Hill Road	242	0	46	0
	C - Fakenham Road (W)	572	11	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.28	0.72	0.00
	B - Marl Hill Road	0.84	0.00	0.16	0.00
	C - Fakenham Road (W)	0.98	0.02	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	3	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	1	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.026	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.008	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	16:45-17:00	542	552
	17:00-17:15	648	660
	17:15-17:30	793	808
	17:30-17:45	793	808
	17:45-18:00	648	660
	18:00-18:15	542	552
B - Marl Hill Road	16:45-17:00	216	216
	17:00-17:15	258	258
	17:15-17:30	316	316
	17:30-17:45	316	316
	17:45-18:00	258	258
	18:00-18:15	216	216
C - Fakenham Road (W)	16:45-17:00	439	443
	17:00-17:15	525	529
	17:15-17:30	642	648
	17:30-17:45	642	648
	17:45-18:00	525	529
	18:00-18:15	439	443
D - The Street	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.94	204.63	3.0	F	42	63
B-AD	0.93	106.42	7.4	F	222	332
A-BCD	0.00	0.00	0.0	A	0	0
A-B					183	275
A-C					490	738
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.05	4.69	0.1	A	29	44
C-D					0	0
C-A					511	766

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	34	9	409	0.084	34	0.0	0.1	9.582	A
B-AD	182	45	380	0.479	178	0.0	0.9	17.595	C
A-BCD	0	0	455	0.000	0	0.0	0.0	0.000	A
A-B	150	38			150				
A-C	402	101			402				
D-ABC	0	0	405	0.000	0	0.0	0.0	0.000	A
C-ABD	19	5	790	0.024	19	0.0	0.0	4.688	A
C-D	0	0			0				
C-A	424	106			424				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	315	0.130	41	0.1	0.1	13.097	B
B-AD	217	54	341	0.638	214	0.9	1.6	27.688	D
A-BCD	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	179	45			179				
A-C	480	120			480				
D-ABC	0	0	357	0.000	0	0.0	0.0	0.000	A
C-ABD	27	7	835	0.032	26	0.0	0.0	4.471	A
C-D	0	0			0				
C-A	502	126			502				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	94	0.533	47	0.1	1.0	72.272	F
B-AD	266	66	287	0.928	249	1.6	5.8	75.383	F
A-BCD	0	0	389	0.000	0	0.0	0.0	0.000	A
A-B	220	55			220				
A-C	588	147			588				
D-ABC	0	0	287	0.000	0	0.0	0.0	0.000	A
C-ABD	42	10	902	0.046	42	0.0	0.1	4.208	A
C-D	0	0			0				
C-A	606	151			606				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	53	0.939	42	1.0	3.0	204.625	F
B-AD	266	66	286	0.931	260	5.8	7.4	106.418	F
A-BCD	0	0	385	0.000	0	0.0	0.0	0.000	A
A-B	220	55			220				
A-C	588	147			588				
D-ABC	0	0	282	0.000	0	0.0	0.0	0.000	A
C-ABD	42	10	902	0.046	42	0.1	0.1	4.210	A
C-D	0	0			0				
C-A	606	151			606				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	271	0.151	52	3.0	0.2	17.244	C
B-AD	217	54	339	0.641	239	7.4	2.0	41.707	E
A-BCD	0	0	421	0.000	0	0.0	0.0	0.000	A
A-B	179	45			179				
A-C	480	120			480				
D-ABC	0	0	350	0.000	0	0.0	0.0	0.000	A
C-ABD	27	7	835	0.032	27	0.1	0.0	4.477	A
C-D	0	0			0				
C-A	502	126			502				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	34	9	401	0.085	35	0.2	0.1	9.843	A
B-AD	182	45	380	0.479	186	2.0	1.0	18.942	C
A-BCD	0	0	453	0.000	0	0.0	0.0	0.000	A
A-B	150	38			150				
A-C	402	101			402				
D-ABC	0	0	403	0.000	0	0.0	0.0	0.000	A
C-ABD	19	5	790	0.024	19	0.0	0.0	4.691	A
C-D	0	0			0				
C-A	424	106			424				

2039DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.61	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.61	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)	Run automatically
D9	2039DS	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	507	100.000
B - Marl Hill Road		ONE HOUR	✓	23	100.000
C - Fakenham Road (W)		ONE HOUR	✓	679	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	8	499	0
	B - Marl Hill Road	6	0	18	0
	C - Fakenham Road (W)	640	40	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.02	0.98	0.00
	B - Marl Hill Road	0.25	0.00	0.75	0.00
	C - Fakenham Road (W)	0.94	0.06	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	3	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	2	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.030	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.024	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	07:15-07:30	382	393
	07:30-07:45	456	469
	07:45-08:00	559	575
	08:00-08:15	559	575
	08:15-08:30	456	469
	08:30-08:45	382	393
B - Marl Hill Road	07:15-07:30	18	18
	07:30-07:45	21	21
	07:45-08:00	26	26
	08:00-08:15	26	26
	08:15-08:30	21	21
	08:30-08:45	18	18
C - Fakenham Road (W)	07:15-07:30	512	523
	07:30-07:45	611	625
	07:45-08:00	748	765
	08:00-08:15	748	765
	08:15-08:30	611	625
	08:30-08:45	512	523
D - The Street	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	6.69	0.0	A	16	24
B-AD	0.02	14.33	0.0	B	5	8
A-BCD	0.00	0.00	0.0	A	0	0
A-B					8	11
A-C					472	708
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.16	4.64	0.5	A	110	165
C-D					0	0
C-A					528	792

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	608	0.022	13	0.0	0.0	6.053	A
B-AD	4	1	336	0.013	4	0.0	0.0	10.888	B
A-BCD	0	0	481	0.000	0	0.0	0.0	0.000	A
A-B	6	2			6				
A-C	387	97			387				
D-ABC	0	0	457	0.000	0	0.0	0.0	0.000	A
C-ABD	70	18	880	0.082	70	0.0	0.2	4.619	A
C-D	0	0			0				
C-A	453	113			453				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	587	0.027	16	0.0	0.0	6.304	A
B-AD	5	1	303	0.017	5	0.0	0.0	12.094	B
A-BCD	0	0	459	0.000	0	0.0	0.0	0.000	A
A-B	7	2			7				
A-C	462	116			462				
D-ABC	0	0	421	0.000	0	0.0	0.0	0.000	A
C-ABD	100	25	917	0.109	100	0.2	0.2	4.474	A
C-D	0	0			0				
C-A	524	131			524				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	558	0.035	19	0.0	0.0	6.688	A
B-AD	6	2	258	0.025	6	0.0	0.0	14.322	B
A-BCD	0	0	429	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	566	141			566				
D-ABC	0	0	371	0.000	0	0.0	0.0	0.000	A
C-ABD	158	40	1000	0.158	158	0.2	0.5	4.351	A
C-D	0	0			0				
C-A	607	152			607				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	558	0.035	19	0.0	0.0	6.689	A
B-AD	6	2	258	0.025	6	0.0	0.0	14.332	B
A-B	9	2			9				
A-C	566	141			566				
D-ABC	0	0	371	0.000	0	0.0	0.0	0.000	A
C-ABD	159	40	1000	0.159	159	0.5	0.5	4.363	A
C-D	0	0			0				
C-A	606	152			606				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	587	0.027	16	0.0	0.0	6.308	A
B-AD	5	1	303	0.017	5	0.0	0.0	12.103	B
A-BCD	0	0	459	0.000	0	0.0	0.0	0.000	A
A-B	7	2			7				
A-C	462	116			462				
D-ABC	0	0	421	0.000	0	0.0	0.0	0.000	A
C-ABD	101	25	918	0.110	102	0.5	0.3	4.496	A
C-D	0	0			0				
C-A	524	131			524				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	608	0.022	13	0.0	0.0	6.057	A
B-AD	4	1	335	0.013	4	0.0	0.0	10.876	B
A-BCD	0	0	481	0.000	0	0.0	0.0	0.000	A
A-B	6	2			6				
A-C	387	97			387				
D-ABC	0	0	457	0.000	0	0.0	0.0	0.000	A
C-ABD	71	18	880	0.082	71	0.3	0.2	4.638	A
C-D	0	0			0				
C-A	453	113			453				

2039DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.42	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2039DS	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	568	100.000
B - Marl Hill Road		ONE HOUR	✓	47	100.000
C - Fakenham Road (W)		ONE HOUR	✓	573	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	4	552	0
	B - Marl Hill Road	12	0	35	0
	C - Fakenham Road (W)	568	7	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.01	0.99	0.00
	B - Marl Hill Road	0.25	0.00	0.75	0.00
	C - Fakenham Road (W)	0.99	0.01	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	2	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	1	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.022	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.007	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	16:45-17:00	419	428
	17:00-17:15	500	510
	17:15-17:30	612	625
	17:30-17:45	612	625
	17:45-18:00	500	510
	18:00-18:15	419	428
B - Marl Hill Road	16:45-17:00	35	35
	17:00-17:15	42	42
	17:15-17:30	52	52
	17:30-17:45	52	52
	17:45-18:00	42	42
	18:00-18:15	35	35
C - Fakenham Road (W)	16:45-17:00	432	435
	17:00-17:15	516	519
	17:15-17:30	631	636
	17:30-17:45	631	636
	17:45-18:00	516	519
	18:00-18:15	432	435
D - The Street	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	7.18	0.1	A	32	49
B-AD	0.05	13.98	0.0	B	11	18
A-BCD	0.00	0.00	0.0	A	0	0
A-B					4	6
A-C					517	778
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.03	4.54	0.0	A	18	27
C-D					0	0
C-A					512	768

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	27	7	596	0.045	26	0.0	0.0	6.315	A
B-AD	9	2	344	0.025	9	0.0	0.0	10.720	B
A-BCD	0	0	494	0.000	0	0.0	0.0	0.000	A
A-B	3	0.79			3				
A-C	424	106			424				
D-ABC	0	0	469	0.000	0	0.0	0.0	0.000	A
C-ABD	12	3	808	0.015	12	0.0	0.0	4.540	A
C-D	0	0			0				
C-A	423	106			423				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	573	0.056	32	0.0	0.1	6.651	A
B-AD	10	3	313	0.033	10	0.0	0.0	11.878	B
A-BCD	0	0	475	0.000	0	0.0	0.0	0.000	A
A-B	4	0.94			4				
A-C	507	127			507				
D-ABC	0	0	436	0.000	0	0.0	0.0	0.000	A
C-ABD	17	4	855	0.019	17	0.0	0.0	4.312	A
C-D	0	0			0				
C-A	503	126			503				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	540	0.072	39	0.1	0.1	7.179	A
B-AD	13	3	271	0.047	13	0.0	0.0	13.953	B
A-BCD	0	0	449	0.000	0	0.0	0.0	0.000	A
A-B	5	1			5				
A-C	621	155			621				
D-ABC	0	0	389	0.000	0	0.0	0.0	0.000	A
C-ABD	25	6	923	0.028	25	0.0	0.0	4.031	A
C-D	0	0			0				
C-A	611	153			611				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	540	0.072	39	0.1	0.1	7.180	A
B-AD	13	3	271	0.047	13	0.0	0.0	13.958	B
A-BCD	0	0	449	0.000	0	0.0	0.0	0.000	A
A-B	5	1			5				
A-C	621	155			621				
D-ABC	0	0	389	0.000	0	0.0	0.0	0.000	A
C-ABD	25	6	923	0.028	25	0.0	0.0	4.032	A
C-D	0	0			0				
C-A	611	153			611				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	573	0.056	32	0.1	0.1	6.657	A
B-AD	10	3	313	0.033	10	0.0	0.0	11.886	B
A-BCD	0	0	475	0.000	0	0.0	0.0	0.000	A
A-B	4	0.94			4				
A-C	507	127			507				
D-ABC	0	0	436	0.000	0	0.0	0.0	0.000	A
C-ABD	17	4	855	0.019	17	0.0	0.0	4.317	A
C-D	0	0			0				
C-A	503	126			503				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	27	7	596	0.045	27	0.1	0.0	6.320	A
B-AD	9	2	344	0.025	9	0.0	0.0	10.727	B
A-BCD	0	0	494	0.000	0	0.0	0.0	0.000	A
A-B	3	0.79			3				
A-C	424	106			424				
D-ABC	0	0	469	0.000	0	0.0	0.0	0.000	A
C-ABD	12	3	808	0.015	12	0.0	0.0	4.542	A
C-D	0	0			0				
C-A	423	106			423				

2039DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.29	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.29	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2039DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	518	100.000
B - Marl Hill Road		ONE HOUR	✓	22	100.000
C - Fakenham Road (W)		ONE HOUR	✓	689	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	5	513	0
	B - Marl Hill Road	5	0	17	0
	C - Fakenham Road (W)	675	13	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.01	0.99	0.00
	B - Marl Hill Road	0.23	0.00	0.77	0.00
	C - Fakenham Road (W)	0.98	0.02	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	3	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	4	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.029	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.041	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	07:15-07:30	390	401
	07:30-07:45	468	479
	07:45-08:00	571	587
	08:00-08:15	571	587
	08:15-08:30	468	479
	08:30-08:45	390	401
B - Marl Hill Road	07:15-07:30	16	16
	07:30-07:45	19	19
	07:45-08:00	24	24
	08:00-08:15	24	24
	08:15-08:30	19	19
	08:30-08:45	16	16
C - Fakenham Road (W)	07:15-07:30	519	539
	07:30-07:45	619	644
	07:45-08:00	758	789
	08:00-08:15	758	789
	08:15-08:30	619	644
	08:30-08:45	519	539
D - The Street	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	6.70	0.0	A	15	23
B-AD	0.02	14.38	0.0	B	5	7
A-BCD	0.00	0.00	0.0	A	0	0
A-B					5	7
A-C					485	727
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.06	4.30	0.1	A	40	60
C-D					0	0
C-A					617	926

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	607	0.021	12	0.0	0.0	6.059	A
B-AD	4	0.93	334	0.011	4	0.0	0.0	10.907	B
A-BCD	0	0	473	0.000	0	0.0	0.0	0.000	A
A-B	4	0.95			4				
A-C	398	99			398				
D-ABC	0	0	446	0.000	0	0.0	0.0	0.000	A
C-ABD	25	6	884	0.028	25	0.0	0.0	4.290	A
C-D	0	0			0				
C-A	514	129			514				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	585	0.028	15	0.0	0.0	6.314	A
B-AD	4	1	301	0.015	4	0.0	0.0	12.138	B
A-BCD	0	0	450	0.000	0	0.0	0.0	0.000	A
A-B	5	1			5				
A-C	475	119			475				
D-ABC	0	0	409	0.000	0	0.0	0.0	0.000	A
C-ABD	38	9	947	0.038	38	0.0	0.1	4.053	A
C-D	0	0			0				
C-A	608	152			608				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	5	555	0.033	18	0.0	0.0	6.704	A
B-AD	5	1	256	0.021	5	0.0	0.0	14.375	B
A-BCD	0	0	418	0.000	0	0.0	0.0	0.000	A
A-B	6	1			6				
A-C	582	145			582				
D-ABC	0	0	355	0.000	0	0.0	0.0	0.000	A
C-ABD	58	15	1037	0.058	58	0.1	0.1	3.782	A
C-D	0	0			0				
C-A	730	183			730				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	5	555	0.033	18	0.0	0.0	6.705	A
B-AD	5	1	256	0.021	5	0.0	0.0	14.378	B
A-BCD	0	0	418	0.000	0	0.0	0.0	0.000	A
A-B	6	1			6				
A-C	582	145			582				
D-ABC	0	0	355	0.000	0	0.0	0.0	0.000	A
C-ABD	58	15	1037	0.058	58	0.1	0.1	3.788	A
C-D	0	0			0				
C-A	730	183			730				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	585	0.028	15	0.0	0.0	6.315	A
B-AD	4	1	301	0.015	4	0.0	0.0	12.139	B
A-BCD	0	0	450	0.000	0	0.0	0.0	0.000	A
A-B	5	1			5				
A-C	475	119			475				
D-ABC	0	0	409	0.000	0	0.0	0.0	0.000	A
C-ABD	38	9	947	0.038	38	0.1	0.1	4.088	A
C-D	0	0			0				
C-A	608	152			608				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	606	0.021	13	0.0	0.0	6.063	A
B-AD	4	0.93	334	0.011	4	0.0	0.0	10.911	B
A-BCD	0	0	473	0.000	0	0.0	0.0	0.000	A
A-B	4	0.95			4				
A-C	398	99			398				
D-ABC	0	0	446	0.000	0	0.0	0.0	0.000	A
C-ABD	25	8	884	0.028	25	0.1	0.0	4.300	A
C-D	0	0			0				
C-A	514	129			514				

2039DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Marl Hill Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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
J4	Marl Hill Road/ The Street/ Fakenham Road	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		0.34	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.34	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2039DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Fakenham Road (E)		ONE HOUR	✓	572	100.000
B - Marl Hill Road		ONE HOUR	✓	40	100.000
C - Fakenham Road (W)		ONE HOUR	✓	573	100.000
D - The Street		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	3	569	0
	B - Marl Hill Road	6	0	34	0
	C - Fakenham Road (W)	566	7	0	0
	D - The Street	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0.00	0.01	0.99	0.00
	B - Marl Hill Road	0.15	0.00	0.85	0.00
	C - Fakenham Road (W)	0.99	0.01	0.00	0.00
	D - The Street	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	0	0	2	0
	B - Marl Hill Road	0	0	0	0
	C - Fakenham Road (W)	1	0	0	0
	D - The Street	0	0	0	0

Average PCU Per Veh

From		To			
		A - Fakenham Road (E)	B - Marl Hill Road	C - Fakenham Road (W)	D - The Street
From	A - Fakenham Road (E)	1.000	1.000	1.021	1.000
	B - Marl Hill Road	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.007	1.000	1.000	1.000
	D - The Street	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Fakenham Road (E)	16:45-17:00	431	440
	17:00-17:15	515	525
	17:15-17:30	630	643
	17:30-17:45	630	643
	17:45-18:00	515	525
	18:00-18:15	431	440
B - Marl Hill Road	16:45-17:00	30	30
	17:00-17:15	36	36
	17:15-17:30	44	44
	17:30-17:45	44	44
	17:45-18:00	36	36
	18:00-18:15	30	30
C - Fakenham Road (W)	16:45-17:00	431	435
	17:00-17:15	515	519
	17:15-17:30	631	636
	17:30-17:45	631	636
	17:45-18:00	515	519
	18:00-18:15	431	435
D - The Street	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	7.13	0.1	A	31	47
B-AD	0.03	14.07	0.0	B	6	9
A-BCD	0.00	0.00	0.0	A	0	0
A-B					3	5
A-C					533	800
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.03	4.55	0.0	A	17	28
C-D					0	0
C-A					512	769

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	599	0.043	25	0.0	0.0	6.270	A
B-AD	5	1	337	0.014	5	0.0	0.0	10.846	B
A-BCD	0	0	495	0.000	0	0.0	0.0	0.000	A
A-B	3	0.64			3				
A-C	437	109			437				
D-ABC	0	0	469	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	806	0.014	11	0.0	0.0	4.550	A
C-D	0	0			0				
C-A	423	106			423				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	575	0.053	30	0.0	0.1	6.604	A
B-AD	6	1	306	0.018	6	0.0	0.0	12.002	B
A-BCD	0	0	476	0.000	0	0.0	0.0	0.000	A
A-B	3	0.76			3				
A-C	522	131			522				
D-ABC	0	0	436	0.000	0	0.0	0.0	0.000	A
C-ABD	16	4	852	0.019	16	0.0	0.0	4.322	A
C-D	0	0			0				
C-A	503	126			503				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	542	0.069	37	0.1	0.1	7.125	A
B-AD	7	2	263	0.026	7	0.0	0.0	14.069	B
A-BCD	0	0	450	0.000	0	0.0	0.0	0.000	A
A-B	4	0.93			4				
A-C	640	160			640				
D-ABC	0	0	388	0.000	0	0.0	0.0	0.000	A
C-ABD	25	6	920	0.027	24	0.0	0.0	4.039	A
C-D	0	0			0				
C-A	611	153			611				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	542	0.069	37	0.1	0.1	7.125	A
B-AD	7	2	263	0.026	7	0.0	0.0	14.072	B
A-BCD	0	0	450	0.000	0	0.0	0.0	0.000	A
A-B	4	0.93			4				
A-C	640	160			640				
D-ABC	0	0	388	0.000	0	0.0	0.0	0.000	A
C-ABD	25	6	920	0.027	25	0.0	0.0	4.042	A
C-D	0	0			0				
C-A	611	153			611				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	575	0.053	31	0.1	0.1	6.606	A
B-AD	6	1	306	0.018	6	0.0	0.0	12.006	B
A-BCD	0	0	476	0.000	0	0.0	0.0	0.000	A
A-B	3	0.76			3				
A-C	522	131			522				
D-ABC	0	0	436	0.000	0	0.0	0.0	0.000	A
C-ABD	16	4	852	0.019	16	0.0	0.0	4.326	A
C-D	0	0			0				
C-A	503	126			503				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	599	0.043	26	0.1	0.0	6.275	A
B-AD	5	1	337	0.014	5	0.0	0.0	10.850	B
A-BCD	0	0	495	0.000	0	0.0	0.0	0.000	A
A-B	3	0.64			3				
A-C	437	109			437				
D-ABC	0	0	469	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	806	0.014	11	0.0	0.0	4.553	A
C-D	0	0			0				
C-A	423	106			423				

