



Norwich Western Link

Transport Assessment - Appendix 11 – Junction Model Results

Sub Appendix 11o – Junction 18 A1067 Fakenham Road/ Sandy Lane/ Breck Farm Lane crossroads

Author: WSP

Document Reference: 4.01.11o

Version Number: 00

Date: March 2024



Contents

1 Junction Model Results 3

Figures

Figure 1-1 Junction Assessment Scope 3



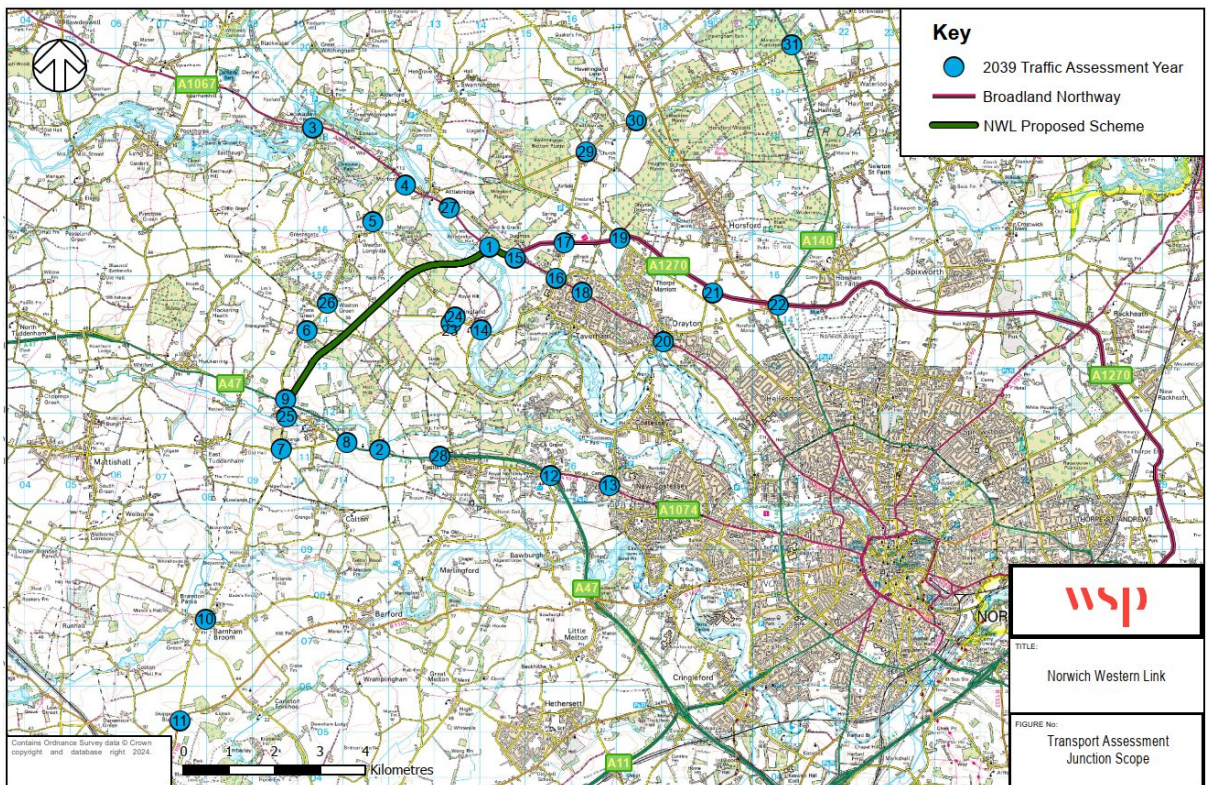
1 Junction Model Results

1.1.1 Junctions 10 modelling software output file that shows the junction capacity results for Junction 18 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).



**J18 – A1067 Fakenham Road/ Sandy Lane/ Breck Farm Lane crossroads
Results**

<h1>Junctions 10</h1>
<h2>PICADY 10 - Priority Intersection Module</h2>
Version: 10.0.1.1519 © Copyright TRL Software Limited, 2021
For sales and distribution information, program advice and maintenance, contact TRL Software: +44 (0)1344 379777 software@trl.co.uk trlsoftware.com
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: J18.j10

Path: \\corp.pbwan.net\IN\IN_Projects\70118686-70061370-Norwich Western Link 2019 20\04 Record of Issue\4A Internal WSP Doc Registers\20240129_Model Reports(wo 2044)\J18

Report generation date: 29/01/2024 17:45:55

-
- »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-CD	D1	0.6	9.42	0.37	A	D2	0.5	9.39	0.34	A
Stream B-AD		0.0	15.09	0.04	C		0.3	16.04	0.26	C
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		0.9	10.79	0.46	B		0.6	8.87	0.38	A
2029DS										
Stream B-CD	D3	0.4	8.50	0.29	A	D4	0.1	7.60	0.12	A
Stream B-AD		0.0	14.32	0.02	B		0.1	15.68	0.08	C
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		0.4	8.77	0.31	A		0.5	9.52	0.33	A
2029DS_Mitigation										
Stream B-CD	D5	0.4	8.56	0.29	A	D6	0.1	7.67	0.12	A
Stream B-AD		0.0	14.31	0.02	B		0.1	15.79	0.10	C
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		0.4	8.72	0.30	A		0.5	9.53	0.33	A
2039DM										
Stream B-CD	D7	0.5	8.72	0.32	A	D8	0.6	9.91	0.39	A
Stream B-AD		0.0	15.05	0.04	C		0.3	16.16	0.25	C
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		1.2	12.07	0.53	B		0.7	9.11	0.41	A
2039DS										
Stream B-CD	D9	0.4	8.42	0.29	A	D10	0.1	7.50	0.12	A
Stream B-AD		0.0	14.28	0.02	B		0.2	16.20	0.14	C
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	8.79	0.32	A		0.5	9.60	0.34	A
2039DS_Mitigation										
Stream B-CD	D11	0.4	8.38	0.28	A	D12	0.1	7.53	0.12	A
Stream B-AD		0.0	14.16	0.02	B		0.2	16.11	0.14	C
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		0.4	8.69	0.31	A		0.5	9.45	0.33	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.

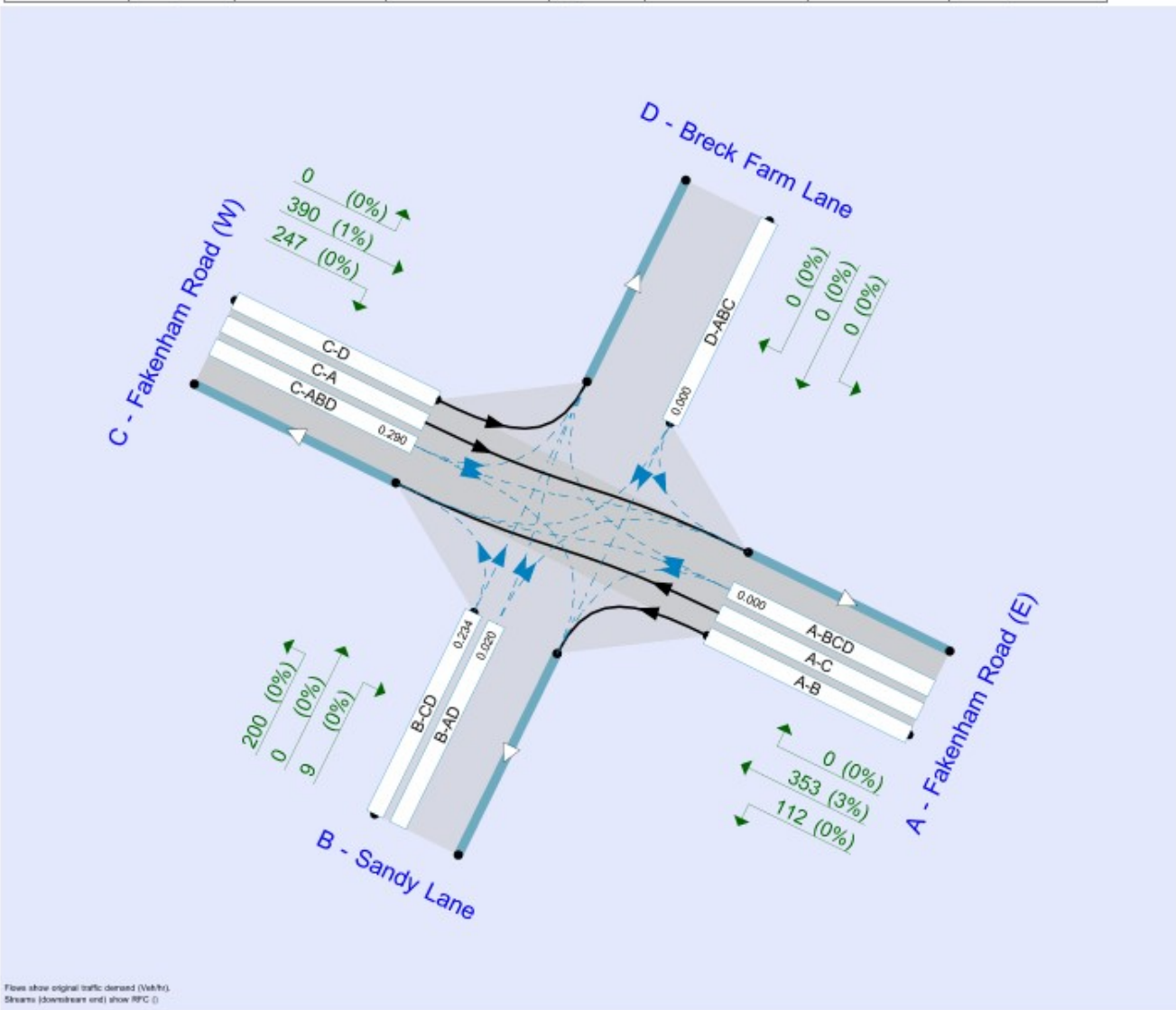
File summary

File Description

Title	Fakenham Road/ Breck Farm Lane
Location	52.68804800927489, 1.1983959396987687
Site number	J18
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 - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		3.56	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.56	A

Arms

Arms

Arm	Name	Description	Arm type
A	Fakenham Road (E)		Major
B	Sandy Lane		Minor
C	Fakenham Road (W)		Major
D	Breck Farm Lane		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - Fakenham Road (E)	7.25		✓	3.00	177.7	✓	6.38
C - Fakenham Road (W)	7.25		✓	3.00	180.1	✓	4.13

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 - Sandy Lane	One lane plus flare		10.00	6.10	4.00	3.90	3.70	✓	1.00	35	30
D - Breck Farm Lane	One lane	3.20								40	28

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-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	736	-	-	-	-	-	-	0.270	0.385	0.270	-	-	-
B-A	506	0.087	0.220	0.220	-	-	-	0.139	0.315	-	0.220	0.220	0.110
B-C	727	0.105	0.267	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	570	0.098	0.248	0.248	-	-	-	0.156	0.354	0.156	-	-	-
B-D, offside lane	506	0.087	0.220	0.220	-	-	-	0.139	0.315	0.139	-	-	-
C-B	737	0.270	0.270	0.388	-	-	-	-	-	-	-	-	-
D-A	654	-	-	-	-	-	-	0.240	-	0.095	-	-	-
D-B, nearside lane	514	0.141	0.141	0.320	-	-	-	0.224	0.224	0.089	-	-	-
D-B, offside lane	514	0.141	0.141	0.320	-	-	-	0.224	0.224	0.089	-	-	-
D-C	514	-	0.141	0.320	0.112	0.224	0.224	0.224	0.224	0.089	-	-	-

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	✓	465	100.000
B - Sandy Lane		ONE HOUR	✓	208	100.000
C - Fakenham Road (W)		ONE HOUR	✓	637	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	112	353	0
	B - Sandy Lane	9	0	200	0
	C - Fakenham Road (W)	390	247	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

	To				
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.24	0.76	0.00
	B - Sandy Lane	0.04	0.00	0.96	0.00
	C - Fakenham Road (W)	0.61	0.39	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	3
B - Sandy Lane	0	0	0	0	
C - Fakenham Road (W)	1	0	0	0	
D - Breck Farm Lane	0	0	0	0	

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.029
B - Sandy Lane	1.000	1.000	1.000	1.000	
C - Fakenham Road (W)	1.012	1.000	1.000	1.000	
D - Breck Farm Lane	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	350	358
	07:30-07:45	418	427
	07:45-08:00	512	523
	08:00-08:15	512	523
	08:15-08:30	418	427
	08:30-08:45	350	358
B - Sandy Lane	07:15-07:30	157	157
	07:30-07:45	187	187
	07:45-08:00	229	229
	08:00-08:15	229	229
	08:15-08:30	187	187
	08:30-08:45	157	157
C - Fakenham Road (W)	07:15-07:30	480	483
	07:30-07:45	573	577
	07:45-08:00	701	707
	08:00-08:15	701	707
	08:15-08:30	573	577
	08:30-08:45	480	483
D - Breck Farm Lane	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-CD	0.37	9.42	0.6	A	183	275
B-AD	0.04	15.09	0.0	C	8	12
A-BCD	0.00	0.00	0.0	A	0	0
A-B					103	154
A-C					334	500
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.46	10.79	0.9	B	230	344
C-D					0	0
C-A					359	539

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-CD	150	38	642	0.234	149	0.0	0.3	7.279	A
B-AD	7	2	335	0.020	6	0.0	0.0	10.969	B
A-BCD	0	0	1177	0.000	0	0.0	0.0	0.000	A
A-B	84	21			84				
A-C	274	68			274				
D-ABC	0	0	387	0.000	0	0.0	0.0	0.000	A
C-ABD	186	47	642	0.290	185	0.0	0.4	7.836	A
C-D	0	0			0				
C-A	297	74			297				

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-CD	179	45	626	0.287	179	0.3	0.4	8.056	A
B-AD	8	2	299	0.026	8	0.0	0.0	12.370	B
A-BCD	0	0	1116	0.000	0	0.0	0.0	0.000	A
A-B	100	25			100				
A-C	327	82			327				
D-ABC	0	0	354	0.000	0	0.0	0.0	0.000	A
C-ABD	223	56	627	0.356	223	0.4	0.5	8.900	A
C-D	0	0			0				
C-A	353	88			353				

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-CD	220	55	602	0.365	219	0.4	0.6	9.387	A
B-AD	10	2	249	0.039	10	0.0	0.0	15.052	C
A-BCD	0	0	1034	0.000	0	0.0	0.0	0.000	A
A-B	123	31			123				
A-C	400	100			400				
D-ABC	0	0	309	0.000	0	0.0	0.0	0.000	A
C-ABD	279	70	613	0.456	278	0.5	0.8	10.724	B
C-D	0	0			0				
C-A	427	107			427				

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-CD	220	55	602	0.365	220	0.6	0.6	9.422	A
B-AD	10	2	248	0.039	10	0.0	0.0	15.086	C
A-BCD	0	0	1033	0.000	0	0.0	0.0	0.000	A
A-B	123	31			123				
A-C	400	100			400				
D-ABC	0	0	309	0.000	0	0.0	0.0	0.000	A
C-ABD	279	70	613	0.456	279	0.8	0.9	10.794	B
C-D	0	0			0				
C-A	427	107			427				

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-CD	179	45	626	0.287	180	0.6	0.4	8.095	A
B-AD	8	2	298	0.028	8	0.0	0.0	12.405	B
A-BCD	0	0	1115	0.000	0	0.0	0.0	0.000	A
A-B	100	25			100				
A-C	327	82			327				
D-ABC	0	0	354	0.000	0	0.0	0.0	0.000	A
C-ABD	223	56	627	0.358	225	0.9	0.6	8.975	A
C-D	0	0			0				
C-A	353	88			353				

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-CD	150	38	642	0.234	151	0.4	0.3	7.329	A
B-AD	7	2	334	0.020	7	0.0	0.0	11.003	B
A-BCD	0	0	1175	0.000	0	0.0	0.0	0.000	A
A-B	84	21			84				
A-C	274	68			274				
D-ABC	0	0	386	0.000	0	0.0	0.0	0.000	A
C-ABD	186	47	642	0.290	187	0.6	0.4	7.913	A
C-D	0	0			0				
C-A	297	74			297				

2029DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		4.31	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.31	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	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	✓	303	100.000
B - Sandy Lane		ONE HOUR	✓	250	100.000
C - Fakenham Road (W)		ONE HOUR	✓	558	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	16	287	0
	B - Sandy Lane	71	0	179	0
	C - Fakenham Road (W)	336	222	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.05	0.95	0.00
	B - Sandy Lane	0.29	0.00	0.71	0.00
	C - Fakenham Road (W)	0.60	0.40	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	1
B - Sandy Lane		0	0	0	0
C - Fakenham Road (W)		0	0	0	0
D - Breck Farm Lane		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.011
B - Sandy Lane		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.001	1.000	1.000	1.000
D - Breck Farm Lane		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	228	231
	17:00-17:15	273	275
	17:15-17:30	334	337
	17:30-17:45	334	337
	17:45-18:00	273	275
	18:00-18:15	228	231
B - Sandy Lane	16:45-17:00	188	188
	17:00-17:15	225	225
	17:15-17:30	275	275
	17:30-17:45	275	275
	17:45-18:00	225	225
	18:00-18:15	188	188
C - Fakenham Road (W)	16:45-17:00	420	421
	17:00-17:15	502	502
	17:15-17:30	615	615
	17:30-17:45	615	615
	17:45-18:00	502	502
	18:00-18:15	420	421
D - Breck Farm Lane	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-CD	0.34	9.39	0.5	A	164	246
B-AD	0.28	16.04	0.3	C	66	98
A-BCD	0.00	0.00	0.0	A	0	0
A-B					15	23
A-C					268	399
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.38	8.87	0.6	A	205	308
C-D					0	0
C-A					308	461

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-CD	134	34	635	0.212	133	0.0	0.3	7.170	A
B-AD	54	13	377	0.142	53	0.0	0.2	11.081	B
A-BCD	0	0	1209	0.000	0	0.0	0.0	0.000	A
A-B	12	3			12				
A-C	218	55			218				
D-ABC	0	0	413	0.000	0	0.0	0.0	0.000	A
C-ABD	168	42	676	0.248	166	0.0	0.3	7.048	A
C-D	0	0			0				
C-A	253	63			253				

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-CD	161	40	614	0.262	160	0.3	0.4	7.931	A
B-AD	64	16	347	0.185	64	0.2	0.2	12.714	B
A-BCD	0	0	1157	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	261	65			261				
D-ABC	0	0	387	0.000	0	0.0	0.0	0.000	A
C-ABD	200	50	665	0.301	200	0.3	0.4	7.735	A
C-D	0	0			0				
C-A	302	75			302				

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-CD	197	49	581	0.339	196	0.4	0.5	9.346	A
B-AD	79	20	303	0.259	78	0.2	0.3	15.980	C
A-BCD	0	0	1085	0.000	0	0.0	0.0	0.000	A
A-B	18	5			18				
A-C	319	80			319				
D-ABC	0	0	349	0.000	0	0.0	0.0	0.000	A
C-ABD	247	62	653	0.379	247	0.4	0.6	8.845	A
C-D	0	0			0				
C-A	368	92			368				

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-CD	197	49	580	0.339	197	0.5	0.5	9.388	A
B-AD	79	20	303	0.259	79	0.3	0.3	16.044	C
A-BCD	0	0	1084	0.000	0	0.0	0.0	0.000	A
A-B	18	5			18				
A-C	319	80			319				
D-ABC	0	0	349	0.000	0	0.0	0.0	0.000	A
C-ABD	247	62	653	0.379	247	0.6	0.6	8.875	A
C-D	0	0			0				
C-A	368	92			368				

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-CD	161	40	613	0.262	161	0.5	0.4	7.973	A
B-AD	64	16	346	0.185	65	0.3	0.2	12.796	B
A-BCD	0	0	1156	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	261	65			261				
D-ABC	0	0	386	0.000	0	0.0	0.0	0.000	A
C-ABD	200	50	665	0.301	201	0.6	0.4	7.773	A
C-D	0	0			0				
C-A	302	75			302				

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-CD	134	34	634	0.212	135	0.4	0.3	7.220	A
B-AD	54	13	377	0.143	54	0.2	0.2	11.163	B
A-BCD	0	0	1208	0.000	0	0.0	0.0	0.000	A
A-B	12	3			12				
A-C	218	55			218				
D-ABC	0	0	413	0.000	0	0.0	0.0	0.000	A
C-ABD	168	42	676	0.248	168	0.4	0.3	7.094	A
C-D	0	0			0				
C-A	253	63			253				

2029DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.12	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	✓	487	100.000
B - Sandy Lane		ONE HOUR	✓	161	100.000
C - Fakenham Road (W)		ONE HOUR	✓	662	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	101	388	0
	B - Sandy Lane	5	0	157	0
	C - Fakenham Road (W)	497	165	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.21	0.79	0.00
	B - Sandy Lane	0.03	0.00	0.97	0.00
	C - Fakenham Road (W)	0.75	0.25	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	3
B - Sandy Lane		0	0	0	0
C - Fakenham Road (W)		4	0	0	0
D - Breck Farm Lane		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.028
B - Sandy Lane		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.045	1.000	1.000	1.000
D - Breck Farm Lane		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	367	375
	07:30-07:45	438	448
	07:45-08:00	537	549
	08:00-08:15	537	549
	08:15-08:30	438	448
	08:30-08:45	367	375
B - Sandy Lane	07:15-07:30	121	122
	07:30-07:45	145	145
	07:45-08:00	178	178
	08:00-08:15	178	178
	08:15-08:30	145	145
	08:30-08:45	121	122
C - Fakenham Road (W)	07:15-07:30	499	515
	07:30-07:45	595	616
	07:45-08:00	729	754
	08:00-08:15	729	754
	08:15-08:30	595	616
	08:30-08:45	499	515
D - Breck Farm Lane	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-CD	0.29	8.50	0.4	A	144	216
B-AD	0.02	14.32	0.0	B	4	7
A-BCD	0.00	0.00	0.0	A	0	0
A-B					93	139
A-C					385	547
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.31	8.77	0.4	A	152	228
C-D					0	0
C-A					478	714

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-CD	118	29	638	0.185	117	0.0	0.2	6.900	A
B-AD	4	0.90	338	0.011	4	0.0	0.0	10.761	B
A-BCD	0	0	1173	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	299	75			299				
D-ABC	0	0	377	0.000	0	0.0	0.0	0.000	A
C-ABD	124	31	638	0.195	123	0.0	0.2	7.004	A
C-D	0	0			0				
C-A	391	98			391				

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-CD	141	35	620	0.227	141	0.2	0.3	7.499	A
B-AD	4	1	304	0.014	4	0.0	0.0	12.008	B
A-BCD	0	0	1113	0.000	0	0.0	0.0	0.000	A
A-B	91	23			91				
A-C	357	89			357				
D-ABC	0	0	344	0.000	0	0.0	0.0	0.000	A
C-ABD	149	37	618	0.241	148	0.2	0.3	7.667	A
C-D	0	0			0				
C-A	467	117			467				

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-CD	172	43	596	0.289	172	0.3	0.4	8.483	A
B-AD	5	1	257	0.021	5	0.0	0.0	14.303	B
A-BCD	0	0	1029	0.000	0	0.0	0.0	0.000	A
A-B	111	28			111				
A-C	437	109			437				
D-ABC	0	0	296	0.000	0	0.0	0.0	0.000	A
C-ABD	183	46	593	0.308	183	0.3	0.4	8.752	A
C-D	0	0			0				
C-A	571	143			571				

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-CD	172	43	596	0.289	172	0.4	0.4	8.500	A
B-AD	5	1	257	0.021	5	0.0	0.0	14.317	B
A-BCD	0	0	1029	0.000	0	0.0	0.0	0.000	A
A-B	111	28			111				
A-C	437	109			437				
D-ABC	0	0	296	0.000	0	0.0	0.0	0.000	A
C-ABD	183	46	594	0.308	183	0.4	0.4	8.772	A
C-D	0	0			0				
C-A	571	143			571				

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-CD	141	35	620	0.227	141	0.4	0.3	7.522	A
B-AD	4	1	304	0.014	4	0.0	0.0	12.022	B
A-BCD	0	0	1112	0.000	0	0.0	0.0	0.000	A
A-B	91	23			91				
A-C	357	89			357				
D-ABC	0	0	343	0.000	0	0.0	0.0	0.000	A
C-ABD	149	37	618	0.241	149	0.4	0.3	7.694	A
C-D	0	0			0				
C-A	467	117			467				

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-CD	118	29	638	0.185	118	0.3	0.2	6.932	A
B-AD	4	0.90	338	0.011	4	0.0	0.0	10.781	B
A-BCD	0	0	1172	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	299	75			299				
D-ABC	0	0	377	0.000	0	0.0	0.0	0.000	A
C-ABD	124	31	636	0.195	125	0.3	0.2	7.037	A
C-D	0	0			0				
C-A	391	98			391				

2029DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		1.95	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.95	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)	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	✓	588	100.000
B - Sandy Lane		ONE HOUR	✓	80	100.000
C - Fakenham Road (W)		ONE HOUR	✓	552	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	12	578	0
	B - Sandy Lane	19	0	81	0
	C - Fakenham Road (W)	383	170	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.02	0.98	0.00
	B - Sandy Lane	0.24	0.00	0.78	0.00
	C - Fakenham Road (W)	0.69	0.31	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	0	1	0
	B - Sandy Lane	0	0	0	0
	C - Fakenham Road (W)	0	0	0	0
	D - Breck Farm Lane	0	0	0	0

Average PCU Per Veh

From		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	1.000	1.000	1.005	1.000
	B - Sandy Lane	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.001	1.000	1.000	1.000
	D - Breck Farm Lane	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	442	445
	17:00-17:15	528	531
	17:15-17:30	647	650
	17:30-17:45	647	650
	17:45-18:00	528	531
	18:00-18:15	442	445
B - Sandy Lane	16:45-17:00	60	60
	17:00-17:15	72	72
	17:15-17:30	88	88
	17:30-17:45	88	88
	17:45-18:00	72	72
	18:00-18:15	60	60
C - Fakenham Road (W)	16:45-17:00	416	416
	17:00-17:15	496	497
	17:15-17:30	608	608
	17:30-17:45	608	608
	17:45-18:00	496	497
	18:00-18:15	416	416
D - Breck Farm Lane	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-CD	0.12	7.60	0.1	A	56	83
B-AD	0.08	15.68	0.1	C	18	27
A-BCD	0.00	0.00	0.0	A	0	0
A-B					11	16
A-C					531	797
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.33	9.52	0.5	A	156	234
C-D					0	0
C-A					351	526

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-CD	46	11	600	0.076	45	0.0	0.1	6.491	A
B-AD	15	4	335	0.043	14	0.0	0.0	11.221	B
A-BCD	0	0	1219	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	436	109			436				
D-ABC	0	0	394	0.000	0	0.0	0.0	0.000	A
C-ABD	128	32	618	0.207	127	0.0	0.3	7.318	A
C-D	0	0			0				
C-A	288	72			288				

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-CD	54	14	575	0.095	54	0.1	0.1	6.915	A
B-AD	17	4	300	0.058	17	0.0	0.1	12.745	B
A-BCD	0	0	1169	0.000	0	0.0	0.0	0.000	A
A-B	10	3			10				
A-C	520	130			520				
D-ABC	0	0	383	0.000	0	0.0	0.0	0.000	A
C-ABD	153	38	595	0.257	152	0.3	0.3	8.125	A
C-D	0	0			0				
C-A	344	86			344				

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-CD	67	17	540	0.123	67	0.1	0.1	7.599	A
B-AD	21	5	251	0.085	21	0.1	0.1	15.652	C
A-BCD	0	0	1101	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	637	159			637				
D-ABC	0	0	320	0.000	0	0.0	0.0	0.000	A
C-ABD	188	47	566	0.332	188	0.3	0.5	9.493	A
C-D	0	0			0				
C-A	420	105			420				

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-CD	67	17	540	0.123	67	0.1	0.1	7.604	A
B-AD	21	5	251	0.085	21	0.1	0.1	15.678	C
A-BCD	0	0	1100	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	637	159			637				
D-ABC	0	0	320	0.000	0	0.0	0.0	0.000	A
C-ABD	188	47	566	0.332	188	0.5	0.5	9.523	A
C-D	0	0			0				
C-A	420	105			420				

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-CD	54	14	575	0.095	55	0.1	0.1	6.921	A
B-AD	17	4	299	0.058	17	0.1	0.1	12.772	B
A-BCD	0	0	1169	0.000	0	0.0	0.0	0.000	A
A-B	10	3			10				
A-C	520	130			520				
D-ABC	0	0	363	0.000	0	0.0	0.0	0.000	A
C-ABD	153	38	595	0.257	153	0.5	0.4	8.158	A
C-D	0	0			0				
C-A	344	86			344				

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-CD	46	11	599	0.076	46	0.1	0.1	6.501	A
B-AD	15	4	335	0.043	15	0.1	0.0	11.247	B
A-BCD	0	0	1218	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	436	109			436				
D-ABC	0	0	393	0.000	0	0.0	0.0	0.000	A
C-ABD	128	32	618	0.207	128	0.4	0.3	7.357	A
C-D	0	0			0				
C-A	288	72			288				

2029DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.12	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	✓	487	100.000
B - Sandy Lane		ONE HOUR	✓	164	100.000
C - Fakenham Road (W)		ONE HOUR	✓	663	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	101	388	0
	B - Sandy Lane	5	0	160	0
	C - Fakenham Road (W)	500	163	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.21	0.79	0.00
	B - Sandy Lane	0.03	0.00	0.97	0.00
	C - Fakenham Road (W)	0.75	0.25	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	3
B - Sandy Lane	0	0	0	0	
C - Fakenham Road (W)	4	0	0	0	
D - Breck Farm Lane	0	0	0	0	

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.028
B - Sandy Lane	1.000	1.000	1.000	1.000	
C - Fakenham Road (W)	1.045	1.000	1.000	1.000	
D - Breck Farm Lane	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	367	375
	07:30-07:45	438	447
	07:45-08:00	538	548
	08:00-08:15	538	548
	08:15-08:30	438	447
	08:30-08:45	367	375
B - Sandy Lane	07:15-07:30	124	124
	07:30-07:45	148	148
	07:45-08:00	181	181
	08:00-08:15	181	181
	08:15-08:30	148	148
	08:30-08:45	124	124
C - Fakenham Road (W)	07:15-07:30	499	516
	07:30-07:45	598	616
	07:45-08:00	730	754
	08:00-08:15	730	754
	08:15-08:30	598	616
	08:30-08:45	499	516
D - Breck Farm Lane	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-CD	0.29	8.56	0.4	A	146	220
B-AD	0.02	14.31	0.0	B	4	7
A-BCD	0.00	0.00	0.0	A	0	0
A-B					93	139
A-C					384	548
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.30	8.72	0.4	A	150	225
C-D					0	0
C-A					479	718

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-CD	120	30	638	0.188	119	0.0	0.2	6.928	A
B-AD	4	0.91	338	0.011	4	0.0	0.0	10.756	B
A-BCD	0	0	1173	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	299	75			299				
D-ABC	0	0	377	0.000	0	0.0	0.0	0.000	A
C-ABD	123	31	637	0.193	122	0.0	0.2	6.979	A
C-D	0	0			0				
C-A	393	98			393				

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-CD	143	36	621	0.231	143	0.2	0.3	7.539	A
B-AD	4	1	304	0.014	4	0.0	0.0	12.000	B
A-BCD	0	0	1113	0.000	0	0.0	0.0	0.000	A
A-B	91	23			91				
A-C	357	89			357				
D-ABC	0	0	343	0.000	0	0.0	0.0	0.000	A
C-ABD	147	37	618	0.237	146	0.2	0.3	7.632	A
C-D	0	0			0				
C-A	469	117			469				

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-CD	176	44	596	0.295	175	0.3	0.4	8.544	A
B-AD	5	1	257	0.021	5	0.0	0.0	14.299	B
A-BCD	0	0	1030	0.000	0	0.0	0.0	0.000	A
A-B	111	28			111				
A-C	437	109			437				
D-ABC	0	0	296	0.000	0	0.0	0.0	0.000	A
C-ABD	180	45	593	0.304	180	0.3	0.4	8.697	A
C-D	0	0			0				
C-A	574	143			574				

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-CD	176	44	596	0.295	176	0.4	0.4	8.563	A
B-AD	5	1	257	0.021	5	0.0	0.0	14.313	B
A-BCD	0	0	1029	0.000	0	0.0	0.0	0.000	A
A-B	111	28			111				
A-C	437	109			437				
D-ABC	0	0	296	0.000	0	0.0	0.0	0.000	A
C-ABD	180	45	593	0.304	180	0.4	0.4	8.718	A
C-D	0	0			0				
C-A	574	143			574				

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-CD	143	38	621	0.231	144	0.4	0.3	7.580	A
B-AD	4	1	304	0.014	4	0.0	0.0	12.016	B
A-BCD	0	0	1112	0.000	0	0.0	0.0	0.000	A
A-B	91	23			91				
A-C	357	89			357				
D-ABC	0	0	343	0.000	0	0.0	0.0	0.000	A
C-ABD	147	37	618	0.237	147	0.4	0.3	7.680	A
C-D	0	0			0				
C-A	469	117			469				

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-CD	120	30	638	0.188	120	0.3	0.2	6.958	A
B-AD	4	0.91	338	0.011	4	0.0	0.0	10.775	B
A-BCD	0	0	1172	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	299	75			299				
D-ABC	0	0	377	0.000	0	0.0	0.0	0.000	A
C-ABD	123	31	637	0.193	123	0.3	0.2	7.015	A
C-D	0	0			0				
C-A	393	98			393				

2029DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.00	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.00	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	✓	588	100.000
B - Sandy Lane		ONE HOUR	✓	83	100.000
C - Fakenham Road (W)		ONE HOUR	✓	552	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	12	576	0
	B - Sandy Lane	23	0	60	0
	C - Fakenham Road (W)	383	170	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.02	0.98	0.00
	B - Sandy Lane	0.28	0.00	0.72	0.00
	C - Fakenham Road (W)	0.69	0.31	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	0	1	0
	B - Sandy Lane	0	0	0	0
	C - Fakenham Road (W)	0	0	0	0
	D - Breck Farm Lane	0	0	0	0

Average PCU Per Veh

From		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	1.000	1.000	1.005	1.000
	B - Sandy Lane	1.000	1.000	1.000	1.000
	C - Fakenham Road (W)	1.001	1.000	1.000	1.000
	D - Breck Farm Lane	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	442	445
	17:00-17:15	528	531
	17:15-17:30	647	650
	17:30-17:45	647	650
	17:45-18:00	528	531
	18:00-18:15	442	445
B - Sandy Lane	16:45-17:00	63	63
	17:00-17:15	75	75
	17:15-17:30	92	92
	17:30-17:45	92	92
	17:45-18:00	75	75
	18:00-18:15	63	63
C - Fakenham Road (W)	16:45-17:00	416	416
	17:00-17:15	497	497
	17:15-17:30	608	609
	17:30-17:45	608	609
	17:45-18:00	497	497
	18:00-18:15	416	416
D - Breck Farm Lane	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-CD	0.12	7.67	0.1	A	55	82
B-AD	0.10	15.79	0.1	C	21	32
A-BCD	0.00	0.00	0.0	A	0	0
A-B					11	16
A-C					531	797
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.33	9.53	0.5	A	156	235
C-D					0	0
C-A					351	526

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-CD	45	11	596	0.076	45	0.0	0.1	6.531	A
B-AD	18	4	339	0.052	17	0.0	0.1	11.191	B
A-BCD	0	0	1219	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	436	109			436				
D-ABC	0	0	393	0.000	0	0.0	0.0	0.000	A
C-ABD	128	32	618	0.207	127	0.0	0.3	7.320	A
C-D	0	0			0				
C-A	288	72			288				

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-CD	54	13	571	0.094	54	0.1	0.1	6.962	A
B-AD	21	5	303	0.069	21	0.1	0.1	12.754	B
A-BCD	0	0	1169	0.000	0	0.0	0.0	0.000	A
A-B	10	3			10				
A-C	520	130			520				
D-ABC	0	0	383	0.000	0	0.0	0.0	0.000	A
C-ABD	153	38	595	0.257	153	0.3	0.3	8.128	A
C-D	0	0			0				
C-A	344	86			344				

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-CD	66	16	535	0.123	66	0.1	0.1	7.664	A
B-AD	26	6	254	0.101	26	0.1	0.1	15.780	C
A-BCD	0	0	1101	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	637	159			637				
D-ABC	0	0	320	0.000	0	0.0	0.0	0.000	A
C-ABD	188	47	566	0.333	188	0.3	0.5	9.499	A
C-D	0	0			0				
C-A	420	105			420				

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-CD	66	16	535	0.123	66	0.1	0.1	7.670	A
B-AD	26	6	254	0.101	26	0.1	0.1	15.790	C
A-BCD	0	0	1100	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	637	159			637				
D-ABC	0	0	320	0.000	0	0.0	0.0	0.000	A
C-ABD	188	47	566	0.333	188	0.5	0.5	9.529	A
C-D	0	0			0				
C-A	420	105			420				

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-CD	54	13	571	0.094	54	0.1	0.1	6.972	A
B-AD	21	5	303	0.069	21	0.1	0.1	12.784	B
A-BCD	0	0	1168	0.000	0	0.0	0.0	0.000	A
A-B	10	3			10				
A-C	520	130			520				
D-ABC	0	0	363	0.000	0	0.0	0.0	0.000	A
C-ABD	153	38	595	0.257	153	0.5	0.4	8.163	A
C-D	0	0			0				
C-A	344	86			344				

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-CD	45	11	596	0.076	45	0.1	0.1	6.543	A
B-AD	18	4	339	0.052	18	0.1	0.1	11.222	B
A-BCD	0	0	1218	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	436	109			436				
D-ABC	0	0	393	0.000	0	0.0	0.0	0.000	A
C-ABD	128	32	618	0.207	128	0.4	0.3	7.380	A
C-D	0	0			0				
C-A	288	72			288				

2039DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		4.15	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.15	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
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	✓	434	100.000
B - Sandy Lane		ONE HOUR	✓	187	100.000
C - Fakenham Road (W)		ONE HOUR	✓	635	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	101	332	0
	B - Sandy Lane	9	0	178	0
	C - Fakenham Road (W)	345	290	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.23	0.77	0.00
	B - Sandy Lane	0.05	0.00	0.95	0.00
	C - Fakenham Road (W)	0.54	0.46	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	3
B - Sandy Lane	0	0	0	0	
C - Fakenham Road (W)	2	0	0	0	
D - Breck Farm Lane	0	0	0	0	

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.032
B - Sandy Lane	1.000	1.000	1.000	1.000	
C - Fakenham Road (W)	1.016	1.000	1.000	1.000	
D - Breck Farm Lane	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	327	334
	07:30-07:45	390	399
	07:45-08:00	478	489
	08:00-08:15	478	489
	08:15-08:30	390	399
	08:30-08:45	327	334
B - Sandy Lane	07:15-07:30	141	141
	07:30-07:45	168	168
	07:45-08:00	206	206
	08:00-08:15	206	206
	08:15-08:30	168	168
	08:30-08:45	141	141
C - Fakenham Road (W)	07:15-07:30	478	483
	07:30-07:45	571	576
	07:45-08:00	700	706
	08:00-08:15	700	706
	08:15-08:30	571	576
	08:30-08:45	478	483
D - Breck Farm Lane	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-CD	0.32	8.72	0.5	A	163	245
B-AD	0.04	15.05	0.0	C	9	13
A-BCD	0.00	0.00	0.0	A	0	0
A-B					93	140
A-C					315	472
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.53	12.07	1.2	B	273	409
C-D					0	0
C-A					315	473

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-CD	134	33	647	0.207	133	0.0	0.3	6.986	A
B-AD	7	2	334	0.021	7	0.0	0.0	10.996	B
A-BCD	0	0	1170	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	258	65			258				
D-ABC	0	0	392	0.000	0	0.0	0.0	0.000	A
C-ABD	220	55	650	0.338	218	0.0	0.5	8.290	A
C-D	0	0			0				
C-A	263	66			263				

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-CD	160	40	631	0.253	159	0.3	0.3	7.629	A
B-AD	8	2	299	0.028	8	0.0	0.0	12.385	B
A-BCD	0	0	1108	0.000	0	0.0	0.0	0.000	A
A-B	91	23			91				
A-C	308	77			308				
D-ABC	0	0	360	0.000	0	0.0	0.0	0.000	A
C-ABD	265	66	638	0.415	264	0.5	0.7	9.607	A
C-D	0	0			0				
C-A	312	78			312				

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-CD	196	49	609	0.321	195	0.3	0.5	8.698	A
B-AD	10	3	250	0.041	10	0.0	0.0	15.006	C
A-BCD	0	0	1023	0.000	0	0.0	0.0	0.000	A
A-B	112	28			112				
A-C	377	94			377				
D-ABC	0	0	316	0.000	0	0.0	0.0	0.000	A
C-ABD	334	84	633	0.528	333	0.7	1.1	11.942	B
C-D	0	0			0				
C-A	371	93			371				

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-CD	196	49	609	0.321	196	0.5	0.5	8.721	A
B-AD	10	3	250	0.041	10	0.0	0.0	15.047	C
A-BCD	0	0	1022	0.000	0	0.0	0.0	0.000	A
A-B	112	28			112				
A-C	377	94			377				
D-ABC	0	0	316	0.000	0	0.0	0.0	0.000	A
C-ABD	334	84	633	0.528	334	1.1	1.2	12.073	B
C-D	0	0			0				
C-A	371	93			371				

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-CD	160	40	631	0.253	160	0.5	0.3	7.659	A
B-AD	8	2	298	0.028	8	0.0	0.0	12.428	B
A-BCD	0	0	1108	0.000	0	0.0	0.0	0.000	A
A-B	91	23			91				
A-C	308	77			308				
D-ABC	0	0	380	0.000	0	0.0	0.0	0.000	A
C-ABD	285	66	638	0.415	286	1.2	0.7	9.737	A
C-D	0	0			0				
C-A	312	78			312				

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-CD	134	33	647	0.207	134	0.3	0.3	7.026	A
B-AD	7	2	333	0.021	7	0.0	0.0	11.036	B
A-BCD	0	0	1168	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	258	65			258				
D-ABC	0	0	391	0.000	0	0.0	0.0	0.000	A
C-ABD	220	55	650	0.338	220	0.7	0.5	8.399	A
C-D	0	0			0				
C-A	283	66			283				

2039DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		4.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.83	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
D8	2039DM	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	✓	264	100.000
B - Sandy Lane		ONE HOUR	✓	279	100.000
C - Fakenham Road (W)		ONE HOUR	✓	578	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	17	247	0
	B - Sandy Lane	67	0	212	0
	C - Fakenham Road (W)	333	244	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.06	0.94	0.00
	B - Sandy Lane	0.24	0.00	0.78	0.00
	C - Fakenham Road (W)	0.58	0.42	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	1
B - Sandy Lane		0	0	0	0
C - Fakenham Road (W)		0	0	0	0
D - Breck Farm Lane		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.005
B - Sandy Lane		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.002	1.000	1.000	1.000
D - Breck Farm Lane		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	199	200
	17:00-17:15	237	239
	17:15-17:30	291	292
	17:30-17:45	291	292
	17:45-18:00	237	239
	18:00-18:15	199	200
B - Sandy Lane	16:45-17:00	210	210
	17:00-17:15	251	251
	17:15-17:30	307	307
	17:30-17:45	307	307
	17:45-18:00	251	251
	18:00-18:15	210	210
C - Fakenham Road (W)	16:45-17:00	434	434
	17:00-17:15	518	519
	17:15-17:30	635	635
	17:30-17:45	635	635
	17:45-18:00	518	519
	18:00-18:15	434	434
D - Breck Farm Lane	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-CD	0.39	9.91	0.6	A	195	292
B-AD	0.25	16.16	0.3	C	61	92
A-BCD	0.00	0.00	0.0	A	0	0
A-B					15	23
A-C					228	342
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.41	9.11	0.7	A	225	338
C-D					0	0
C-A					304	456

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-CD	180	40	647	0.247	159	0.0	0.3	7.351	A
B-AD	50	13	372	0.135	50	0.0	0.2	11.129	B
A-BCD	0	0	1197	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	187	47			187				
D-ABC	0	0	413	0.000	0	0.0	0.0	0.000	A
C-ABD	184	46	684	0.269	182	0.0	0.4	7.152	A
C-D	0	0			0				
C-A	251	63			251				

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-CD	191	48	628	0.304	190	0.3	0.4	8.217	A
B-AD	60	15	342	0.176	60	0.2	0.2	12.765	B
A-BCD	0	0	1142	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	224	56			224				
D-ABC	0	0	386	0.000	0	0.0	0.0	0.000	A
C-ABD	220	55	676	0.326	220	0.4	0.5	7.886	A
C-D	0	0			0				
C-A	299	75			299				

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-CD	234	58	598	0.391	233	0.4	0.6	9.854	A
B-AD	73	18	297	0.248	73	0.2	0.3	16.066	C
A-BCD	0	0	1067	0.000	0	0.0	0.0	0.000	A
A-B	18	5			18				
A-C	274	68			274				
D-ABC	0	0	348	0.000	0	0.0	0.0	0.000	A
C-ABD	272	68	667	0.408	271	0.5	0.7	9.073	A
C-D	0	0			0				
C-A	363	91			363				

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-CD	234	58	597	0.392	234	0.6	0.6	9.908	A
B-AD	73	18	296	0.248	73	0.3	0.3	16.158	C
A-BCD	0	0	1066	0.000	0	0.0	0.0	0.000	A
A-B	18	5			18				
A-C	274	68			274				
D-ABC	0	0	348	0.000	0	0.0	0.0	0.000	A
C-ABD	272	68	667	0.408	272	0.7	0.7	9.109	A
C-D	0	0			0				
C-A	363	91			363				

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-CD	191	48	628	0.304	192	0.6	0.4	8.275	A
B-AD	60	15	341	0.176	60	0.3	0.2	12.851	B
A-BCD	0	0	1141	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	224	56			224				
D-ABC	0	0	385	0.000	0	0.0	0.0	0.000	A
C-ABD	220	55	676	0.328	221	0.7	0.5	7.932	A
C-D	0	0			0				
C-A	299	75			299				

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-CD	160	40	646	0.247	160	0.4	0.3	7.411	A
B-AD	50	13	372	0.135	50	0.2	0.2	11.213	B
A-BCD	0	0	1195	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	187	47			187				
D-ABC	0	0	412	0.000	0	0.0	0.0	0.000	A
C-ABD	184	46	664	0.269	184	0.5	0.4	7.205	A
C-D	0	0			0				
C-A	251	63			251				

2039DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.16	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.16	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	✓	470	100.000
B - Sandy Lane		ONE HOUR	✓	161	100.000
C - Fakenham Road (W)		ONE HOUR	✓	677	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	90	380	0
	B - Sandy Lane	4	0	157	0
	C - Fakenham Road (W)	506	171	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.19	0.81	0.00
	B - Sandy Lane	0.03	0.00	0.97	0.00
	C - Fakenham Road (W)	0.75	0.25	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	2
B - Sandy Lane	0	0	0	0	
C - Fakenham Road (W)	4	0	0	0	
D - Breck Farm Lane	0	0	0	0	

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.023
B - Sandy Lane	1.000	1.000	1.000	1.000	
C - Fakenham Road (W)	1.040	1.000	1.000	1.000	
D - Breck Farm Lane	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	354	361
	07:30-07:45	423	431
	07:45-08:00	518	527
	08:00-08:15	518	527
	08:15-08:30	423	431
	08:30-08:45	354	361
B - Sandy Lane	07:15-07:30	121	121
	07:30-07:45	145	145
	07:45-08:00	177	177
	08:00-08:15	177	177
	08:15-08:30	145	145
	08:30-08:45	121	121
C - Fakenham Road (W)	07:15-07:30	510	525
	07:30-07:45	609	627
	07:45-08:00	746	768
	08:00-08:15	746	768
	08:15-08:30	609	627
	08:30-08:45	510	525
D - Breck Farm Lane	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-CD	0.29	8.42	0.4	A	144	216
B-AD	0.02	14.28	0.0	B	4	6
A-BCD	0.00	0.00	0.0	A	0	0
A-B					83	124
A-C					357	535
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.32	8.79	0.5	A	158	237
C-D					0	0
C-A					482	723

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-CD	118	29	641	0.184	117	0.0	0.2	6.886	A
B-AD	3	0.80	338	0.009	3	0.0	0.0	10.749	B
A-BCD	0	0	1165	0.000	0	0.0	0.0	0.000	A
A-B	68	17			68				
A-C	293	73			293				
D-ABC	0	0	377	0.000	0	0.0	0.0	0.000	A
C-ABD	129	32	640	0.201	128	0.0	0.2	7.013	A
C-D	0	0			0				
C-A	396	99			396				

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-CD	141	35	624	0.228	141	0.2	0.3	7.451	A
B-AD	4	0.96	304	0.013	4	0.0	0.0	11.987	B
A-BCD	0	0	1104	0.000	0	0.0	0.0	0.000	A
A-B	81	20			81				
A-C	350	87			350				
D-ABC	0	0	343	0.000	0	0.0	0.0	0.000	A
C-ABD	154	39	622	0.248	154	0.2	0.3	7.680	A
C-D	0	0			0				
C-A	473	118			473				

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-CD	173	43	600	0.288	172	0.3	0.4	8.405	A
B-AD	5	1	257	0.018	5	0.0	0.0	14.271	B
A-BCD	0	0	1019	0.000	0	0.0	0.0	0.000	A
A-B	99	25			99				
A-C	428	107			428				
D-ABC	0	0	295	0.000	0	0.0	0.0	0.000	A
C-ABD	190	48	600	0.317	190	0.3	0.5	8.764	A
C-D	0	0			0				
C-A	578	144			578				

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-CD	173	43	600	0.288	173	0.4	0.4	8.422	A
B-AD	5	1	257	0.018	5	0.0	0.0	14.282	B
A-BCD	0	0	1019	0.000	0	0.0	0.0	0.000	A
A-B	99	25			99				
A-C	428	107			428				
D-ABC	0	0	295	0.000	0	0.0	0.0	0.000	A
C-ABD	190	48	600	0.317	190	0.5	0.5	8.787	A
C-D	0	0			0				
C-A	578	144			578				

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-CD	141	35	624	0.228	141	0.4	0.3	7.473	A
B-AD	4	0.96	304	0.013	4	0.0	0.0	12.001	B
A-BCD	0	0	1103	0.000	0	0.0	0.0	0.000	A
A-B	81	20			81				
A-C	350	87			350				
D-ABC	0	0	343	0.000	0	0.0	0.0	0.000	A
C-ABD	154	39	623	0.248	155	0.5	0.3	7.706	A
C-D	0	0			0				
C-A	473	118			473				

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-CD	118	29	641	0.184	118	0.3	0.2	6.898	A
B-AD	3	0.80	338	0.009	3	0.0	0.0	10.767	B
A-BCD	0	0	1164	0.000	0	0.0	0.0	0.000	A
A-B	68	17			68				
A-C	293	73			293				
D-ABC	0	0	377	0.000	0	0.0	0.0	0.000	A
C-ABD	129	32	640	0.201	129	0.3	0.3	7.047	A
C-D	0	0			0				
C-A	396	99			396				

2039DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.12	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	✓	581	100.000
B - Sandy Lane		ONE HOUR	✓	91	100.000
C - Fakenham Road (W)		ONE HOUR	✓	567	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	12	569	0
	B - Sandy Lane	32	0	59	0
	C - Fakenham Road (W)	393	174	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.02	0.98	0.00
	B - Sandy Lane	0.35	0.00	0.65	0.00
	C - Fakenham Road (W)	0.69	0.31	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	1
B - Sandy Lane		0	0	0	0
C - Fakenham Road (W)		0	0	0	0
D - Breck Farm Lane		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.006
B - Sandy Lane		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.001	1.000	1.000	1.000
D - Breck Farm Lane		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	437	440
	17:00-17:15	522	525
	17:15-17:30	640	643
	17:30-17:45	640	643
	17:45-18:00	522	525
	18:00-18:15	437	440
B - Sandy Lane	16:45-17:00	69	69
	17:00-17:15	82	82
	17:15-17:30	100	100
	17:30-17:45	100	100
	17:45-18:00	82	82
	18:00-18:15	69	69
C - Fakenham Road (W)	16:45-17:00	427	427
	17:00-17:15	510	510
	17:15-17:30	624	625
	17:30-17:45	624	625
	17:45-18:00	510	510
	18:00-18:15	427	427
D - Breck Farm Lane	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-CD	0.12	7.50	0.1	A	55	82
B-AD	0.14	16.20	0.2	C	29	44
A-BCD	0.00	0.00	0.0	A	0	0
A-B					11	16
A-C					525	787
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.34	9.60	0.5	A	161	241
C-D					0	0
C-A					360	540

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-CD	45	11	610	0.073	44	0.0	0.1	6.364	A
B-AD	24	6	344	0.069	24	0.0	0.1	11.208	B
A-BCD	0	0	1213	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	431	108			431				
D-ABC	0	0	391	0.000	0	0.0	0.0	0.000	A
C-ABD	131	33	619	0.212	130	0.0	0.3	7.348	A
C-D	0	0			0				
C-A	296	74			296				

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-CD	53	13	584	0.092	53	0.1	0.1	6.792	A
B-AD	28	7	308	0.092	28	0.1	0.1	12.874	B
A-BCD	0	0	1161	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	514	129			514				
D-ABC	0	0	360	0.000	0	0.0	0.0	0.000	A
C-ABD	157	39	597	0.263	157	0.3	0.4	8.171	A
C-D	0	0			0				
C-A	353	88			353				

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-CD	66	16	546	0.120	65	0.1	0.1	7.495	A
B-AD	35	9	257	0.135	35	0.1	0.2	16.161	C
A-BCD	0	0	1091	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	630	157			630				
D-ABC	0	0	317	0.000	0	0.0	0.0	0.000	A
C-ABD	194	48	569	0.341	193	0.4	0.5	9.566	A
C-D	0	0			0				
C-A	431	108			431				

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-CD	66	16	545	0.120	66	0.1	0.1	7.503	A
B-AD	35	9	257	0.136	35	0.2	0.2	16.198	C
A-BCD	0	0	1090	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	630	157			630				
D-ABC	0	0	317	0.000	0	0.0	0.0	0.000	A
C-ABD	194	48	569	0.341	194	0.5	0.5	9.598	A
C-D	0	0			0				
C-A	431	108			431				

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-CD	53	13	583	0.092	54	0.1	0.1	6.801	A
B-AD	28	7	308	0.093	29	0.2	0.1	12.918	B
A-BCD	0	0	1180	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	514	129			514				
D-ABC	0	0	380	0.000	0	0.0	0.0	0.000	A
C-ABD	157	39	597	0.263	158	0.5	0.4	8.207	A
C-D	0	0			0				
C-A	353	88			353				

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-CD	45	11	610	0.074	45	0.1	0.1	6.379	A
B-AD	24	6	344	0.089	24	0.1	0.1	11.248	B
A-BCD	0	0	1212	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	431	108			431				
D-ABC	0	0	391	0.000	0	0.0	0.0	0.000	A
C-ABD	131	33	619	0.212	132	0.4	0.3	7.394	A
C-D	0	0			0				
C-A	296	74			296				

2039DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.12	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	✓	471	100.000
B - Sandy Lane		ONE HOUR	✓	159	100.000
C - Fakenham Road (W)		ONE HOUR	✓	667	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	90	381	0
	B - Sandy Lane	4	0	154	0
	C - Fakenham Road (W)	501	167	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.19	0.81	0.00
	B - Sandy Lane	0.03	0.00	0.97	0.00
	C - Fakenham Road (W)	0.75	0.25	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	2
B - Sandy Lane		0	0	0	0
C - Fakenham Road (W)		4	0	0	0
D - Breck Farm Lane		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.023
B - Sandy Lane		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.042	1.000	1.000	1.000
D - Breck Farm Lane		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	355	361
	07:30-07:45	423	431
	07:45-08:00	518	528
	08:00-08:15	518	528
	08:15-08:30	423	431
	08:30-08:45	355	361
B - Sandy Lane	07:15-07:30	120	120
	07:30-07:45	143	143
	07:45-08:00	175	175
	08:00-08:15	175	175
	08:15-08:30	143	143
	08:30-08:45	120	120
C - Fakenham Road (W)	07:15-07:30	502	518
	07:30-07:45	600	619
	07:45-08:00	735	758
	08:00-08:15	735	758
	08:15-08:30	600	619
	08:30-08:45	502	518
D - Breck Farm Lane	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-CD	0.28	8.38	0.4	A	142	213
B-AD	0.02	14.16	0.0	B	4	6
A-BCD	0.00	0.00	0.0	A	0	0
A-B					83	124
A-C					358	536
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.31	8.69	0.4	A	153	230
C-D					0	0
C-A					478	717

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-CD	116	29	641	0.182	115	0.0	0.2	6.847	A
B-AD	3	0.81	340	0.010	3	0.0	0.0	10.702	B
A-BCD	0	0	1170	0.000	0	0.0	0.0	0.000	A
A-B	68	17			68				
A-C	293	73			293				
D-ABC	0	0	378	0.000	0	0.0	0.0	0.000	A
C-ABD	126	31	640	0.196	125	0.0	0.2	6.969	A
C-D	0	0			0				
C-A	393	98			393				

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-CD	139	35	624	0.223	139	0.2	0.3	7.424	A
B-AD	4	0.96	306	0.013	4	0.0	0.0	11.915	B
A-BCD	0	0	1109	0.000	0	0.0	0.0	0.000	A
A-B	81	20			81				
A-C	350	88			350				
D-ABC	0	0	345	0.000	0	0.0	0.0	0.000	A
C-ABD	150	38	622	0.241	150	0.2	0.3	7.617	A
C-D	0	0			0				
C-A	469	117			469				

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-CD	170	43	600	0.284	170	0.3	0.4	8.363	A
B-AD	5	1	259	0.018	5	0.0	0.0	14.144	B
A-BCD	0	0	1026	0.000	0	0.0	0.0	0.000	A
A-B	99	25			99				
A-C	429	107			429				
D-ABC	0	0	298	0.000	0	0.0	0.0	0.000	A
C-ABD	185	46	599	0.308	184	0.3	0.4	8.671	A
C-D	0	0			0				
C-A	573	143			573				

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-CD	170	43	600	0.284	170	0.4	0.4	8.380	A
B-AD	5	1	259	0.018	5	0.0	0.0	14.155	B
A-BCD	0	0	1025	0.000	0	0.0	0.0	0.000	A
A-B	99	25			99				
A-C	429	107			429				
D-ABC	0	0	298	0.000	0	0.0	0.0	0.000	A
C-ABD	185	46	599	0.308	185	0.4	0.4	8.691	A
C-D	0	0			0				
C-A	573	143			573				

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-CD	139	35	624	0.223	139	0.4	0.3	7.446	A
B-AD	4	0.96	306	0.013	4	0.0	0.0	11.929	B
A-BCD	0	0	1108	0.000	0	0.0	0.0	0.000	A
A-B	81	20			81				
A-C	350	88			350				
D-ABC	0	0	345	0.000	0	0.0	0.0	0.000	A
C-ABD	150	38	622	0.241	151	0.4	0.3	7.645	A
C-D	0	0			0				
C-A	469	117			469				

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-CD	116	29	641	0.182	117	0.3	0.2	6.876	A
B-AD	3	0.81	339	0.010	3	0.0	0.0	10.719	B
A-BCD	0	0	1169	0.000	0	0.0	0.0	0.000	A
A-B	68	17			68				
A-C	293	73			293				
D-ABC	0	0	378	0.000	0	0.0	0.0	0.000	A
C-ABD	126	31	640	0.198	126	0.3	0.2	7.004	A
C-D	0	0			0				
C-A	393	98			393				

2039DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Sandy Lane - 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
J18	Fakenham Road/ Breck Farm Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		2.09	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.09	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	✓	579	100.000
B - Sandy Lane		ONE HOUR	✓	92	100.000
C - Fakenham Road (W)		ONE HOUR	✓	564	100.000
D - Breck Farm Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0	12	567	0
	B - Sandy Lane	33	0	58	0
	C - Fakenham Road (W)	395	169	0	0
	D - Breck Farm Lane	0	0	0	0

Proportions

		To			
		A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
From	A - Fakenham Road (E)	0.00	0.02	0.98	0.00
	B - Sandy Lane	0.36	0.00	0.64	0.00
	C - Fakenham Road (W)	0.70	0.30	0.00	0.00
	D - Breck Farm Lane	0.25	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	0	0	1
B - Sandy Lane		0	0	0	0
C - Fakenham Road (W)		0	0	0	0
D - Breck Farm Lane		0	0	0	0

Average PCU Per Veh

From	To	A - Fakenham Road (E)	B - Sandy Lane	C - Fakenham Road (W)	D - Breck Farm Lane
		A - Fakenham Road (E)	1.000	1.000	1.006
B - Sandy Lane		1.000	1.000	1.000	1.000
C - Fakenham Road (W)		1.001	1.000	1.000	1.000
D - Breck Farm Lane		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	438	438
	17:00-17:15	521	523
	17:15-17:30	638	641
	17:30-17:45	638	641
	17:45-18:00	521	523
	18:00-18:15	438	438
B - Sandy Lane	16:45-17:00	69	69
	17:00-17:15	83	83
	17:15-17:30	101	101
	17:30-17:45	101	101
	17:45-18:00	83	83
	18:00-18:15	69	69
C - Fakenham Road (W)	16:45-17:00	424	425
	17:00-17:15	507	507
	17:15-17:30	621	621
	17:30-17:45	621	621
	17:45-18:00	507	507
	18:00-18:15	424	425
D - Breck Farm Lane	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-CD	0.12	7.53	0.1	A	54	81
B-AD	0.14	16.11	0.2	C	31	46
A-BCD	0.00	0.00	0.0	A	0	0
A-B					11	16
A-C					523	785
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.33	9.45	0.5	A	156	234
C-D					0	0
C-A					362	543

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-CD	44	11	607	0.073	44	0.0	0.1	6.387	A
B-AD	25	6	347	0.072	25	0.0	0.1	11.151	B
A-BCD	0	0	1215	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	429	107			429				
D-ABC	0	0	392	0.000	0	0.0	0.0	0.000	A
C-ABD	128	32	619	0.206	126	0.0	0.3	7.290	A
C-D	0	0			0				
C-A	297	74			297				

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-CD	53	13	581	0.091	52	0.1	0.1	6.815	A
B-AD	30	7	311	0.097	30	0.1	0.1	12.809	B
A-BCD	0	0	1164	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	513	128			513				
D-ABC	0	0	361	0.000	0	0.0	0.0	0.000	A
C-ABD	152	38	597	0.255	152	0.3	0.3	8.084	A
C-D	0	0			0				
C-A	355	89			355				

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-CD	64	16	543	0.119	64	0.1	0.1	7.522	A
B-AD	37	9	260	0.141	37	0.1	0.2	16.066	C
A-BCD	0	0	1094	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	628	157			628				
D-ABC	0	0	318	0.000	0	0.0	0.0	0.000	A
C-ABD	188	47	569	0.330	187	0.3	0.5	9.440	A
C-D	0	0			0				
C-A	434	108			434				

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-CD	64	16	543	0.119	64	0.1	0.1	7.529	A
B-AD	37	9	260	0.141	37	0.2	0.2	16.105	C
A-BCD	0	0	1094	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	628	157			628				
D-ABC	0	0	318	0.000	0	0.0	0.0	0.000	A
C-ABD	188	47	569	0.330	188	0.5	0.5	9.454	A
C-D	0	0			0				
C-A	434	108			434				

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-CD	53	13	580	0.091	53	0.1	0.1	6.827	A
B-AD	30	7	311	0.097	30	0.2	0.1	12.847	B
A-BCD	0	0	1183	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	513	128			513				
D-ABC	0	0	381	0.000	0	0.0	0.0	0.000	A
C-ABD	152	38	597	0.255	153	0.5	0.3	8.118	A
C-D	0	0			0				
C-A	355	89			355				

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-CD	44	11	607	0.073	44	0.1	0.1	6.402	A
B-AD	25	6	347	0.072	25	0.1	0.1	11.191	B
A-BCD	0	0	1214	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	429	107			429				
D-ABC	0	0	392	0.000	0	0.0	0.0	0.000	A
C-ABD	128	32	619	0.208	128	0.3	0.3	7.332	A
C-D	0	0			0				
C-A	297	74			297				

