Norwich Western Link

Transport Assessment - Appendix 11 – Junction Model Results

Sub Appendix 11b – Junction 3 B1535 Western Hall Road/ A1067 Fakenham Road/ Porter's Lane crossroads

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Contents

Figures

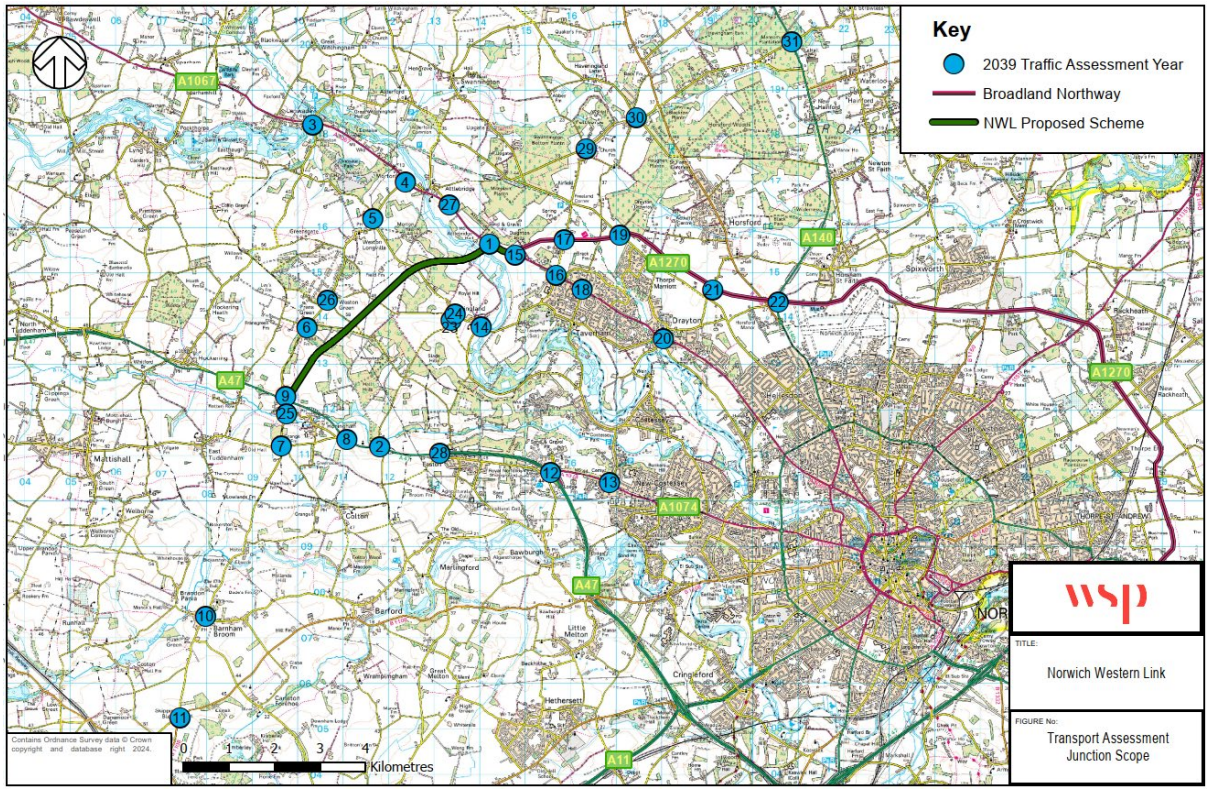
1 Junction Model Results

1.1.1 Junctions 10 modelling software output file that shows the junction capacity results for Junction 3 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).

J3 – B1535 Western Hall Road/ A1067 Fakenham Road/ Porter's Lane crossroads Results

Junctions 10

PICADY 10 - Priority Intersection Module

Filename: J3.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)\J3
Report generation date: 29/01/2024 15:15:46

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	0.2	12.76	0.17	B	D2	0.4	13.81	0.29	B
Stream B-AD		0.4	18.72	0.29	C		0.4	16.96	0.26	C
Stream A-BCD		0.0	4.62	0.01	A		0.0	4.26	0.01	A
Stream D-AB		0.3	17.50	0.20	C		0.1	13.16	0.08	B
Stream D-BC		0.3	17.15	0.21	C		0.1	13.26	0.09	B
Stream C-ABD		0.4	4.65	0.14	A		0.6	5.37	0.22	A
	2029DS									
Stream B-CD	D3	0.0	6.55	0.04	A	D4	0.1	6.91	0.06	A
Stream B-AD		0.1	23.95	0.05	C		0.0	21.82	0.01	C
Stream A-BCD		0.0	4.67	0.01	A		0.0	4.28	0.01	A
Stream D-AB		0.0	11.25	0.01	B		0.0	10.13	0.01	B
Stream D-BC		0.0	13.12	0.04	B		0.0	12.13	0.01	B
Stream C-ABD		0.2	4.52	0.08	A		0.6	5.42	0.22	A
	2029DS_Mitigation									
Stream B-CD	D5	0.1	8.03	0.06	A	D6	0.1	8.33	0.09	A
Stream B-AD		0.1	18.95	0.06	C		0.0	14.14	0.04	B
Stream A-BCD		0.0	4.71	0.02	A		0.0	4.36	0.04	A
Stream D-AB		0.1	11.56	0.08	B		0.0	10.18	0.04	B
Stream D-BC		0.1	13.46	0.07	B		0.0	12.32	0.03	B
Stream C-ABD		0.2	4.56	0.08	A		0.6	5.40	0.22	A
	2039DM									
Stream B-CD	D7	0.5	21.01	0.33	C	D8	0.9	23.86	0.49	C
Stream B-AD		1.2	33.83	0.54	D		0.8	25.74	0.46	D
Stream A-BCD		0.0	4.66	0.01	A		0.0	4.26	0.01	A
Stream D-AB		0.5	24.22	0.32	C		0.1	14.07	0.10	B
Stream D-BC		0.5	23.10	0.32	C		0.1	14.20	0.11	B
Stream C-ABD		0.4	4.34	0.14	A		0.6	5.26	0.23	A
	2039DS									
Stream B-CD	D9	0.0	6.81	0.03	A	D10	0.1	6.91	0.06	A
Stream B-AD		0.1	23.96	0.05	C		0.0	22.24	0.01	C
Stream A-BCD		0.0	4.65	0.01	A		0.0	4.30	0.01	A
Stream D-AB		0.0	11.35	0.02	B		0.0	0.00	0.00	A
Stream D-BC		0.1	13.39	0.05	B		0.0	0.00	0.00	A
Stream C-ABD		0.2	4.45	0.08	A		0.4	4.94	0.16	A
	2039DS_Mitigation									
Stream B-CD	D11	0.1	10.30	0.08	B	D12	0.1	9.52	0.09	A
Stream B-AD		0.1	17.48	0.09	C		0.1	13.86	0.05	B
Stream A-BCD		0.1	4.78	0.06	A		0.2	4.46	0.08	A
Stream D-AB		0.1	11.26	0.07	B		0.0	9.57	0.03	A
Stream D-BC		0.1	14.24	0.07	B		0.0	12.87	0.02	B
Stream C-ABD		0.2	4.49	0.08	A		0.4	4.98	0.16	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.

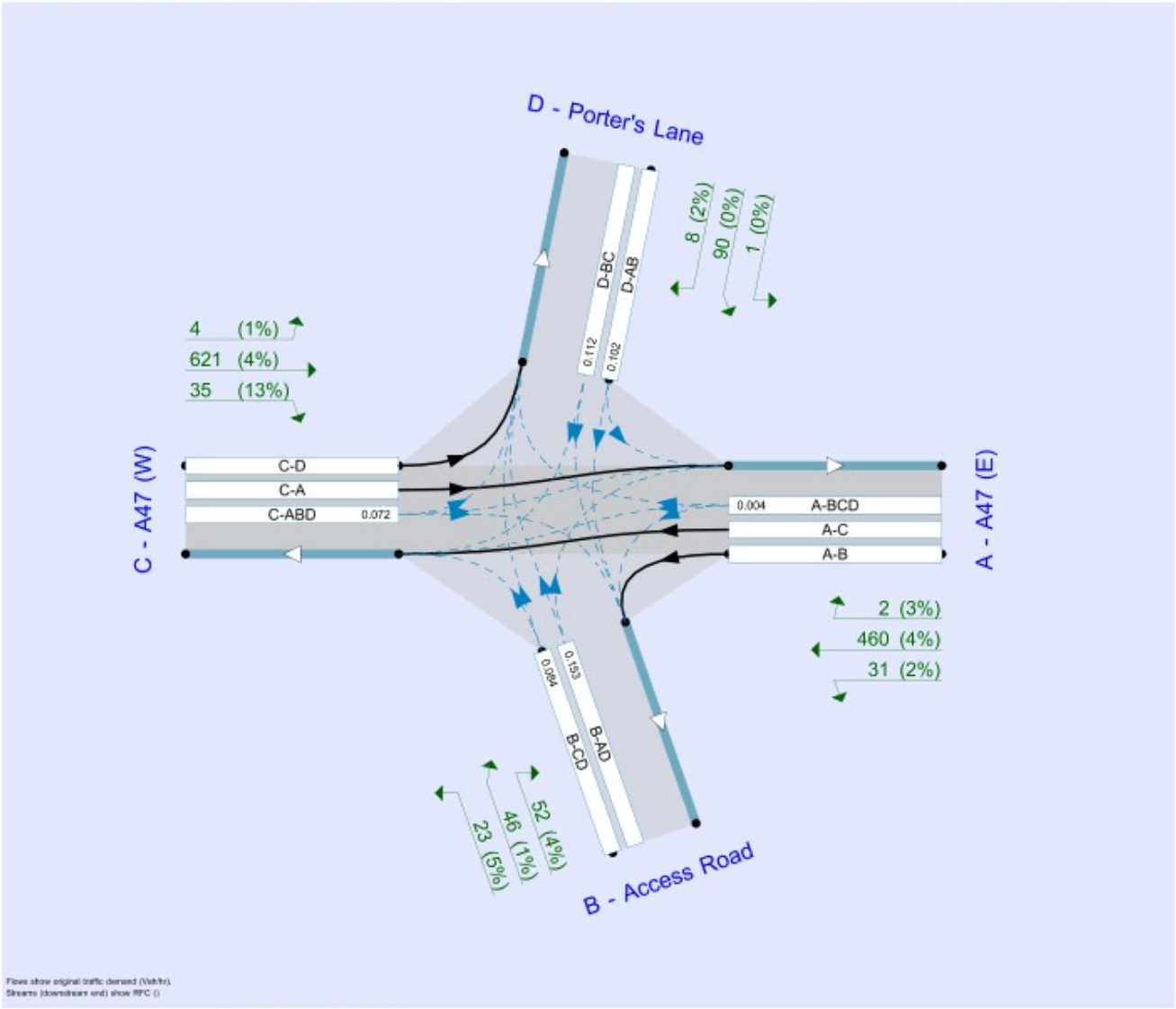
File summary

File Description

Title	Fakenham Road/ Norwich Road/ Porter's Lane
Location	52.72091555569815, 1.112794610209403
Site number	J3
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



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	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 - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		3.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.01	A

Arms

Arms

Arm	Name	Description	Arm type
A	A47 (E)		Major
B	Access Road		Minor
C	A47 (W)		Major
D	Porter's Lane		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 - A47 (E)	7.15			167.0	✓	0.00
C - A47 (W)	7.15			142.5	✓	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	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 - Access Road	One lane plus flare	10.00	6.20	4.10	3.70	3.40	✓	1.00	31	29
D - Porter's Lane	One lane plus flare	10.00	4.60	3.10	3.10	3.10	✓	1.00	26	26

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	671	-	-	-	-	-	-	0.247	0.353	0.247	-	-	-
B-A	555	0.096	0.243	0.243	-	-	-	0.153	0.346	-	0.243	0.243	0.121
B-C	710	0.103	0.261	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	555	0.096	0.243	0.243	-	-	-	0.153	0.346	0.153	-	-	-
B-D, offside lane	555	0.096	0.243	0.243	-	-	-	0.153	0.346	0.153	-	-	-
C-B	656	0.242	0.242	0.345	-	-	-	-	-	-	-	-	-
D-A	682	-	-	-	-	-	-	0.251	-	0.099	-	-	-
D-B, nearside lane	531	0.146	0.146	0.332	-	-	-	0.232	0.232	0.092	-	-	-
D-B, offside lane	531	0.146	0.146	0.332	-	-	-	0.232	0.232	0.092	-	-	-
D-C	531	-	0.146	0.332	0.116	0.232	0.232	0.232	0.232	0.092	-	-	-

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 - A47 (E)		ONE HOUR	✓	493	100.000
B - Access Road		ONE HOUR	✓	121	100.000
C - A47 (W)		ONE HOUR	✓	660	100.000
D - Porter's Lane		ONE HOUR	✓	99	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	31	460	2
	B - Access Road	52	0	23	46
	C - A47 (W)	621	35	0	4
	D - Porter's Lane	1	90	8	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.06	0.93	0.00
	B - Access Road	0.43	0.00	0.19	0.38
	C - A47 (W)	0.94	0.05	0.00	0.01
	D - Porter's Lane	0.01	0.91	0.08	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	2	4	3
	B - Access Road	4	0	5	1
	C - A47 (W)	4	13	0	1
	D - Porter's Lane	0	0	2	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.020	1.037	1.028
	B - Access Road	1.039	1.000	1.052	1.007
	C - A47 (W)	1.035	1.129	1.000	1.007
	D - Porter's Lane	1.000	1.001	1.020	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - A47 (E)	371	384
	B - Access Road	91	94
	C - A47 (W)	497	516
	D - Porter's Lane	75	75
07:30-07:45	A - A47 (E)	443	459
	B - Access Road	109	112
	C - A47 (W)	593	617
	D - Porter's Lane	89	89
07:45-08:00	A - A47 (E)	543	562
	B - Access Road	133	137
	C - A47 (W)	726	755
	D - Porter's Lane	109	109
08:00-08:15	A - A47 (E)	543	562
	B - Access Road	133	137
	C - A47 (W)	726	755
	D - Porter's Lane	109	109
08:15-08:30	A - A47 (E)	443	459
	B - Access Road	109	112
	C - A47 (W)	593	617
	D - Porter's Lane	89	89
08:30-08:45	A - A47 (E)	371	384
	B - Access Road	91	94
	C - A47 (W)	497	516
	D - Porter's Lane	75	75

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	0.17	12.76	0.2	B	47	70
B-AD	0.29	18.72	0.4	C	67	101
A-BCD	0.01	4.62	0.0	A	5	7
A-B					28	43
A-C					435	653
D-AB	0.20	17.50	0.3	C	44	66
D-BC	0.21	17.15	0.3	C	48	71
C-ABD	0.14	4.65	0.4	A	100	150
C-D					3	5
C-A					526	789

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	38	9	448	0.084	37	0.0	0.1	9.015	A
B-AD	56	14	367	0.153	55	0.0	0.2	11.868	B
A-BCD	3	0.80	808	0.004	3	0.0	0.0	4.613	A
A-B	23	6			23				
A-C	358	89			358				
D-AB	36	9	348	0.102	35	0.0	0.1	11.513	B
D-BC	39	10	353	0.112	39	0.0	0.1	11.521	B
C-ABD	65	16	898	0.072	64	0.0	0.1	4.645	A
C-D	3	0.74			3				
C-A	449	112			449				

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	46	11	408	0.112	46	0.1	0.1	10.210	B
B-AD	66	17	330	0.201	66	0.2	0.3	14.034	B
A-BCD	4	1	841	0.005	4	0.0	0.0	4.439	A
A-B	28	7			28				
A-C	427	107			427				
D-AB	43	11	311	0.137	43	0.1	0.2	13.428	B
D-BC	47	12	317	0.147	47	0.1	0.2	13.341	B
C-ABD	92	23	951	0.097	92	0.1	0.2	4.497	A
C-D	3	0.86			3				
C-A	521	130			521				

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	58	14	348	0.166	57	0.1	0.2	12.707	B
B-AD	80	20	278	0.288	79	0.3	0.4	18.588	C
A-BCD	7	2	890	0.007	7	0.0	0.0	4.206	A
A-B	34	9			34				
A-C	522	130			522				
D-AB	53	13	259	0.204	52	0.2	0.3	17.415	C
D-BC	57	14	268	0.212	56	0.2	0.3	17.074	C
C-ABD	143	36	1027	0.139	142	0.2	0.4	4.339	A
C-D	4	1			4				
C-A	609	152			609				

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	58	14	348	0.166	58	0.2	0.2	12.756	B
B-AD	79	20	278	0.286	79	0.4	0.4	18.724	C
A-BCD	7	2	890	0.007	7	0.0	0.0	4.208	A
A-B	34	9			34				
A-C	522	130			522				
D-AB	53	13	259	0.204	53	0.3	0.3	17.502	C
D-BC	57	14	267	0.212	57	0.3	0.3	17.150	C
C-ABD	143	36	1027	0.139	143	0.4	0.4	4.331	A
C-D	4	1			4				
C-A	608	152			608				

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	46	11	407	0.112	46	0.2	0.1	10.256	B
B-AD	66	17	330	0.201	67	0.4	0.3	14.154	B
A-BCD	4	1	841	0.005	4	0.0	0.0	4.443	A
A-B	28	7			28				
A-C	427	107			427				
D-AB	43	11	310	0.138	43	0.3	0.2	13.502	B
D-BC	47	12	317	0.147	47	0.3	0.2	13.413	B
C-ABD	92	23	951	0.097	93	0.4	0.2	4.470	A
C-D	3	0.86			3				
C-A	521	130			521				

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	38	9	447	0.084	38	0.1	0.1	9.052	A
B-AD	56	14	367	0.153	56	0.3	0.2	11.966	B
A-BCD	3	0.80	808	0.004	3	0.0	0.0	4.617	A
A-B	23	6			23				
A-C	358	89			358				
D-AB	36	9	347	0.102	36	0.2	0.1	11.574	B
D-BC	39	10	352	0.112	40	0.2	0.1	11.565	B
C-ABD	65	16	898	0.073	66	0.2	0.1	4.639	A
C-D	3	0.74			3				
C-A	448	112			448				

2029DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		3.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.01	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 - A47 (E)		ONE HOUR	✓	559	100.000
B - Access Road		ONE HOUR	✓	167	100.000
C - A47 (W)		ONE HOUR	✓	539	100.000
D - Porter's Lane		ONE HOUR	✓	46	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	70	487	2
	B - Access Road	34	0	53	79
	C - A47 (W)	456	70	0	12
	D - Porter's Lane	0.68	43	2	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.13	0.87	0.00
	B - Access Road	0.20	0.00	0.32	0.48
	C - A47 (W)	0.85	0.13	0.00	0.02
	D - Porter's Lane	0.01	0.93	0.05	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	1	2	0
	B - Access Road	3	0	0	1
	C - A47 (W)	1	3	0	4
	D - Porter's Lane	0	0	0	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.012	1.023	1.000
	B - Access Road	1.029	1.000	1.000	1.012
	C - A47 (W)	1.006	1.028	1.000	1.040
	D - Porter's Lane	1.000	1.002	1.002	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - A47 (E)	421	430
	B - Access Road	125	127
	C - A47 (W)	405	410
	D - Porter's Lane	34	35
17:00-17:15	A - A47 (E)	503	513
	B - Access Road	150	151
	C - A47 (W)	484	489
	D - Porter's Lane	41	41
17:15-17:30	A - A47 (E)	615	628
	B - Access Road	183	186
	C - A47 (W)	593	599
	D - Porter's Lane	50	50
17:30-17:45	A - A47 (E)	615	628
	B - Access Road	183	186
	C - A47 (W)	593	599
	D - Porter's Lane	50	50
17:45-18:00	A - A47 (E)	503	513
	B - Access Road	150	151
	C - A47 (W)	484	489
	D - Porter's Lane	41	41
18:00-18:15	A - A47 (E)	421	430
	B - Access Road	125	127
	C - A47 (W)	405	410
	D - Porter's Lane	34	35

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	13.81	0.4	B	90	134
B-AD	0.26	16.96	0.4	C	65	98
A-BCD	0.01	4.26	0.0	A	4	5
A-B					65	97
A-C					455	683
D-AB	0.08	13.16	0.1	B	20	31
D-BC	0.09	13.26	0.1	B	22	32
C-ABD	0.22	5.37	0.6	A	142	213
C-D					10	15
C-A					347	521

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	72	18	464	0.156	72	0.0	0.2	9.209	A
B-AD	54	14	380	0.143	54	0.0	0.2	11.219	B
A-BCD	2	0.60	858	0.003	2	0.0	0.0	4.250	A
A-B	53	13			53				
A-C	374	94			374				
D-AB	17	4	374	0.045	17	0.0	0.0	10.083	B
D-BC	18	4	372	0.048	18	0.0	0.0	10.164	B
C-ABD	98	24	799	0.122	97	0.0	0.2	5.222	A
C-D	9	2			9				
C-A	303	76			303				

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	87	22	427	0.205	87	0.2	0.3	10.647	B
B-AD	64	16	345	0.186	64	0.2	0.2	13.059	B
A-BCD	3	0.83	900	0.004	3	0.0	0.0	4.059	A
A-B	64	16			64				
A-C	446	112			446				
D-AB	20	5	342	0.058	20	0.0	0.1	11.184	B
D-BC	21	5	341	0.062	21	0.0	0.1	11.268	B
C-ABD	133	33	831	0.160	133	0.2	0.4	5.251	A
C-D	10	2			10				
C-A	346	87			346				

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	109	27	371	0.293	108	0.3	0.4	13.726	B
B-AD	77	19	294	0.262	76	0.2	0.4	16.863	C
A-BCD	5	1	962	0.005	5	0.0	0.0	3.810	A
A-B	78	19			78				
A-C	546	136			546				
D-AB	25	6	299	0.082	24	0.1	0.1	13.136	B
D-BC	26	6	298	0.087	26	0.1	0.1	13.235	B
C-ABD	195	49	879	0.222	195	0.4	0.6	5.359	A
C-D	11	3			11				
C-A	392	98			392				

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	109	27	371	0.293	109	0.4	0.4	13.806	B
B-AD	77	19	293	0.262	77	0.4	0.4	16.963	C
A-BCD	5	1	962	0.005	5	0.0	0.0	3.817	A
A-B	78	19			78				
A-C	546	136			546				
D-AB	25	6	299	0.082	25	0.1	0.1	13.161	B
D-BC	26	6	298	0.087	26	0.1	0.1	13.256	B
C-ABD	196	49	879	0.223	196	0.6	0.6	5.365	A
C-D	11	3			11				
C-A	392	98			392				

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	87	22	426	0.205	88	0.4	0.3	10.725	B
B-AD	64	16	344	0.186	65	0.4	0.2	13.148	B
A-BCD	3	0.83	900	0.004	3	0.0	0.0	4.067	A
A-B	64	16			64				
A-C	446	112			446				
D-AB	20	5	342	0.058	20	0.1	0.1	11.205	B
D-BC	21	5	341	0.062	21	0.1	0.1	11.296	B
C-ABD	133	33	832	0.160	134	0.6	0.4	5.260	A
C-D	10	2			10				
C-A	346	86			346				

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	73	18	463	0.157	73	0.3	0.2	9.274	A
B-AD	54	14	380	0.143	55	0.2	0.2	11.301	B
A-BCD	2	0.60	858	0.003	2	0.0	0.0	4.256	A
A-B	53	13			53				
A-C	374	94			374				
D-AB	17	4	374	0.045	17	0.1	0.0	10.110	B
D-BC	18	4	372	0.048	18	0.1	0.1	10.189	B
C-ABD	98	25	799	0.123	99	0.4	0.3	5.242	A
C-D	9	2			9				
C-A	303	76			303				

2029DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		0.81	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.81	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 - A47 (E)		ONE HOUR	✓	444	100.000
B - Access Road		ONE HOUR	✓	27	100.000
C - A47 (W)		ONE HOUR	✓	625	100.000
D - Porter's Lane		ONE HOUR	✓	14	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	5	437	2
	B - Access Road	6	0	21	0.23
	C - A47 (W)	598	22	0	4
	D - Porter's Lane	1	6	7	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.01	0.98	0.00
	B - Access Road	0.24	0.00	0.76	0.01
	C - A47 (W)	0.96	0.04	0.00	0.01
	D - Porter's Lane	0.08	0.44	0.48	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	17	3	0
	B - Access Road	96	0	3	0
	C - A47 (W)	3	12	0	0
	D - Porter's Lane	0	0	1	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.167	1.030	1.004
	B - Access Road	1.960	1.000	1.030	1.000
	C - A47 (W)	1.033	1.120	1.000	1.001
	D - Porter's Lane	1.003	1.003	1.010	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - A47 (E)	334	345
	B - Access Road	20	26
	C - A47 (W)	470	487
	D - Porter's Lane	11	11
07:30-07:45	A - A47 (E)	399	412
	B - Access Road	24	31
	C - A47 (W)	561	582
	D - Porter's Lane	13	13
07:45-08:00	A - A47 (E)	489	504
	B - Access Road	30	37
	C - A47 (W)	688	712
	D - Porter's Lane	16	16
08:00-08:15	A - A47 (E)	489	504
	B - Access Road	30	37
	C - A47 (W)	688	712
	D - Porter's Lane	16	16
08:15-08:30	A - A47 (E)	399	412
	B - Access Road	24	31
	C - A47 (W)	561	582
	D - Porter's Lane	13	13
08:30-08:45	A - A47 (E)	334	345
	B - Access Road	20	26
	C - A47 (W)	470	487
	D - Porter's Lane	11	11

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	0.04	6.55	0.0	A	20	29
B-AD	0.05	23.95	0.1	C	12	17
A-BCD	0.01	4.67	0.0	A	4	6
A-B					5	7
A-C					411	617
D-AB	0.01	11.25	0.0	B	4	6
D-BC	0.04	13.12	0.0	B	9	14
C-ABD	0.08	4.52	0.2	A	60	90
C-D					3	5
C-A					531	796

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	16	4	636	0.025	16	0.0	0.0	5.978	A
B-AD	10	2	378	0.025	9	0.0	0.0	18.945	C
A-BCD	3	0.72	787	0.004	3	0.0	0.0	4.663	A
A-B	4	1			4				
A-C	338	84			338				
D-AB	3	0.81	403	0.008	3	0.0	0.0	9.029	A
D-BC	7	2	365	0.021	7	0.0	0.0	10.153	B
C-ABD	39	10	892	0.044	39	0.0	0.1	4.525	A
C-D	3	0.69			3				
C-A	445	111			445				

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	19	5	616	0.031	19	0.0	0.0	6.207	A
B-AD	11	3	348	0.033	11	0.0	0.1	20.770	C
A-BCD	4	0.97	815	0.005	4	0.0	0.0	4.513	A
A-B	5	1			5				
A-C	403	101			403				
D-AB	4	0.97	371	0.010	4	0.0	0.0	9.836	A
D-BC	9	2	332	0.027	9	0.0	0.0	11.220	B
C-ABD	55	14	943	0.058	55	0.1	0.1	4.334	A
C-D	3	0.81			3				
C-A	523	131			523				

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	23	6	589	0.040	23	0.0	0.0	6.550	A
B-AD	14	3	306	0.046	14	0.1	0.1	23.939	C
A-BCD	6	1	857	0.007	6	0.0	0.0	4.311	A
A-B	6	1			6				
A-C	493	123			493				
D-AB	5	1	326	0.015	5	0.0	0.0	11.243	B
D-BC	11	3	288	0.038	11	0.0	0.0	13.111	B
C-ABD	84	21	1016	0.083	84	0.1	0.2	4.105	A
C-D	4	0.97			4				
C-A	624	156			624				

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	23	6	589	0.040	23	0.0	0.0	6.553	A
B-AD	14	3	306	0.046	14	0.1	0.1	23.952	C
A-BCD	6	1	857	0.007	6	0.0	0.0	4.317	A
A-B	6	1			6				
A-C	493	123			493				
D-AB	5	1	326	0.015	5	0.0	0.0	11.246	B
D-BC	11	3	288	0.038	11	0.0	0.0	13.117	B
C-ABD	85	21	1016	0.083	85	0.2	0.2	4.097	A
C-D	4	0.97			4				
C-A	624	156			624				

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	19	5	616	0.031	19	0.0	0.0	6.213	A
B-AD	11	3	348	0.033	11	0.1	0.1	20.779	C
A-BCD	4	0.98	815	0.005	4	0.0	0.0	4.523	A
A-B	5	1			5				
A-C	403	101			403				
D-AB	4	0.97	371	0.010	4	0.0	0.0	9.843	A
D-BC	9	2	332	0.027	9	0.0	0.0	11.227	B
C-ABD	55	14	943	0.059	56	0.2	0.1	4.310	A
C-D	3	0.81			3				
C-A	523	131			523				

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	16	4	635	0.025	16	0.0	0.0	5.987	A
B-AD	10	2	379	0.025	10	0.1	0.1	18.952	C
A-BCD	3	0.72	787	0.004	3	0.0	0.0	4.669	A
A-B	4	1			4				
A-C	338	84			338				
D-AB	3	0.81	403	0.008	3	0.0	0.0	9.032	A
D-BC	7	2	365	0.021	8	0.0	0.0	10.165	B
C-ABD	40	10	892	0.044	40	0.1	0.1	4.515	A
C-D	3	0.69			3				
C-A	445	111			445				

2029DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2029DS	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 - A47 (E)		ONE HOUR	✓	551	100.000
B - Access Road		ONE HOUR	✓	32	100.000
C - A47 (W)		ONE HOUR	✓	526	100.000
D - Porter's Lane		ONE HOUR	✓	6	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	2	545	3
	B - Access Road	1	0	31	0.40
	C - A47 (W)	443	71	0	12
	D - Porter's Lane	0.68	3	2	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.00	0.99	0.01
	B - Access Road	0.04	0.00	0.95	0.01
	C - A47 (W)	0.84	0.14	0.00	0.02
	D - Porter's Lane	0.12	0.48	0.40	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	42	2	0
	B - Access Road	76	0	0	0
	C - A47 (W)	1	3	0	0
	D - Porter's Lane	0	0	0	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.422	1.018	1.000
	B - Access Road	1.760	1.000	1.000	1.000
	C - A47 (W)	1.006	1.027	1.000	1.000
	D - Porter's Lane	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - A47 (E)	414	422
	B - Access Road	24	25
	C - A47 (W)	396	399
	D - Porter's Lane	4	4
17:00-17:15	A - A47 (E)	495	504
	B - Access Road	29	30
	C - A47 (W)	472	477
	D - Porter's Lane	5	5
17:15-17:30	A - A47 (E)	606	618
	B - Access Road	36	37
	C - A47 (W)	579	584
	D - Porter's Lane	6	6
17:30-17:45	A - A47 (E)	606	618
	B - Access Road	36	37
	C - A47 (W)	579	584
	D - Porter's Lane	6	6
17:45-18:00	A - A47 (E)	495	504
	B - Access Road	29	30
	C - A47 (W)	472	477
	D - Porter's Lane	5	5
18:00-18:15	A - A47 (E)	414	422
	B - Access Road	24	25
	C - A47 (W)	396	399
	D - Porter's Lane	4	4

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	0.06	6.91	0.1	A	28	43
B-AD	0.01	21.82	0.0	C	2	3
A-BCD	0.01	4.28	0.0	A	8	11
A-B					3	4
A-C					505	757
D-AB	0.01	10.13	0.0	B	2	3
D-BC	0.01	12.13	0.0	B	3	5
C-ABD	0.22	5.42	0.6	A	141	211
C-D					9	13
C-A					337	505

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	23	6	608	0.038	23	0.0	0.0	6.157	A
B-AD	2	0.42	348	0.005	2	0.0	0.0	17.121	C
A-BCD	5	1	854	0.006	5	0.0	0.0	4.280	A
A-B	2	0.53			2				
A-C	415	104			415				
D-AB	2	0.39	429	0.004	2	0.0	0.0	8.432	A
D-BC	3	0.70	374	0.007	3	0.0	0.0	9.697	A
C-ABD	97	24	792	0.123	96	0.0	0.2	5.263	A
C-D	8	2			8				
C-A	294	74			294				

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	28	7	586	0.048	28	0.0	0.0	6.453	A
B-AD	2	0.51	317	0.006	2	0.0	0.0	18.822	C
A-BCD	7	2	895	0.008	7	0.0	0.0	4.094	A
A-B	3	0.64			3				
A-C	495	124			495				
D-AB	2	0.46	399	0.005	2	0.0	0.0	9.062	A
D-BC	3	0.83	343	0.010	3	0.0	0.0	10.590	B
C-ABD	132	33	824	0.160	131	0.2	0.4	5.298	A
C-D	9	2			9				
C-A	336	84			336				

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	34	9	555	0.061	34	0.0	0.1	6.910	A
B-AD	2	0.62	275	0.009	2	0.0	0.0	21.799	C
A-BCD	11	3	955	0.011	11	0.0	0.0	3.856	A
A-B	3	0.78			3				
A-C	604	151			604				
D-AB	2	0.57	358	0.006	2	0.0	0.0	10.123	B
D-BC	4	1	301	0.014	4	0.0	0.0	12.124	B
C-ABD	193	48	869	0.222	192	0.4	0.6	5.411	A
C-D	10	2			10				
C-A	381	95			381				

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	34	9	555	0.061	34	0.1	0.1	6.910	A
B-AD	2	0.62	275	0.009	2	0.0	0.0	21.815	C
A-BCD	11	3	955	0.011	11	0.0	0.0	3.859	A
A-B	3	0.78			3				
A-C	604	151			604				
D-AB	2	0.57	358	0.006	2	0.0	0.0	10.129	B
D-BC	4	1	301	0.014	4	0.0	0.0	12.133	B
C-ABD	193	48	869	0.222	193	0.6	0.6	5.419	A
C-D	10	2			10				
C-A	381	95			381				

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	28	7	586	0.048	28	0.1	0.1	6.455	A
B-AD	2	0.51	317	0.006	2	0.0	0.0	18.844	C
A-BCD	7	2	895	0.008	7	0.0	0.0	4.104	A
A-B	3	0.64			3				
A-C	495	124			495				
D-AB	2	0.46	399	0.005	2	0.0	0.0	9.071	A
D-BC	3	0.83	343	0.010	3	0.0	0.0	10.601	B
C-ABD	132	33	824	0.161	133	0.6	0.4	5.304	A
C-D	9	2			9				
C-A	336	84			336				

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	23	6	608	0.038	23	0.1	0.0	6.163	A
B-AD	2	0.42	348	0.005	2	0.0	0.0	17.142	C
A-BCD	5	1	854	0.006	5	0.0	0.0	4.285	A
A-B	2	0.53			2				
A-C	415	104			415				
D-AB	2	0.39	428	0.004	2	0.0	0.0	8.440	A
D-BC	3	0.70	374	0.007	3	0.0	0.0	9.708	A
C-ABD	98	24	793	0.124	98	0.4	0.3	5.280	A
C-D	8	2			8				
C-A	294	73			294				

2029DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		1.22	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.22	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 - A47 (E)		ONE HOUR	✓	447	100.000
B - Access Road		ONE HOUR	✓	38	100.000
C - A47 (W)		ONE HOUR	✓	614	100.000
D - Porter's Lane		ONE HOUR	✓	45	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	3	438	5
	B - Access Road	6	0	21	11
	C - A47 (W)	588	22	0	3
	D - Porter's Lane	9	32	4	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.01	0.98	0.01
	B - Access Road	0.17	0.00	0.55	0.28
	C - A47 (W)	0.96	0.04	0.00	0.01
	D - Porter's Lane	0.20	0.71	0.09	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	22	3	1
	B - Access Road	96	0	3	0
	C - A47 (W)	3	12	0	0
	D - Porter's Lane	0	0	4	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.223	1.030	1.015
	B - Access Road	1.960	1.000	1.030	1.002
	C - A47 (W)	1.034	1.120	1.000	1.000
	D - Porter's Lane	1.001	1.001	1.038	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - A47 (E)	337	347
	B - Access Road	28	33
	C - A47 (W)	462	479
	D - Porter's Lane	34	34
07:30-07:45	A - A47 (E)	402	414
	B - Access Road	34	40
	C - A47 (W)	552	572
	D - Porter's Lane	40	40
07:45-08:00	A - A47 (E)	492	508
	B - Access Road	41	49
	C - A47 (W)	675	700
	D - Porter's Lane	49	49
08:00-08:15	A - A47 (E)	492	508
	B - Access Road	41	49
	C - A47 (W)	675	700
	D - Porter's Lane	49	49
08:15-08:30	A - A47 (E)	402	414
	B - Access Road	34	40
	C - A47 (W)	552	572
	D - Porter's Lane	40	40
08:30-08:45	A - A47 (E)	337	347
	B - Access Road	28	33
	C - A47 (W)	462	479
	D - Porter's Lane	34	34

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	0.06	8.03	0.1	A	24	37
B-AD	0.06	18.95	0.1	C	16	24
A-BCD	0.02	4.71	0.0	A	10	16
A-B					4	6
A-C					409	613
D-AB	0.08	11.56	0.1	B	23	35
D-BC	0.07	13.46	0.1	B	18	27
C-ABD	0.08	4.56	0.2	A	59	88
C-D					3	4
C-A					522	783

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	20	5	551	0.036	20	0.0	0.0	6.941	A
B-AD	13	3	389	0.034	13	0.0	0.1	14.691	B
A-BCD	7	2	789	0.009	7	0.0	0.0	4.708	A
A-B	3	0.79			3				
A-C	337	84			337				
D-AB	19	5	417	0.045	19	0.0	0.0	9.046	A
D-BC	15	4	367	0.041	15	0.0	0.0	10.288	B
C-ABD	39	10	886	0.044	39	0.0	0.1	4.559	A
C-D	2	0.56			2				
C-A	438	109			438				

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	24	6	525	0.046	24	0.0	0.0	7.352	A
B-AD	16	4	356	0.045	16	0.1	0.1	16.215	C
A-BCD	10	2	817	0.012	10	0.0	0.0	4.561	A
A-B	4	0.94			4				
A-C	401	100			401				
D-AB	23	6	384	0.059	22	0.0	0.1	9.949	A
D-BC	18	4	336	0.053	18	0.0	0.1	11.421	B
C-ABD	54	14	936	0.058	54	0.1	0.1	4.371	A
C-D	3	0.66			3				
C-A	515	129			515				

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	29	7	488	0.060	29	0.0	0.1	8.032	A
B-AD	19	5	312	0.062	19	0.1	0.1	18.910	C
A-BCD	14	4	859	0.017	14	0.0	0.0	4.366	A
A-B	5	1			5				
A-C	489	122			489				
D-AB	28	7	339	0.082	28	0.1	0.1	11.553	B
D-BC	22	5	291	0.075	22	0.1	0.1	13.450	B
C-ABD	83	21	1007	0.082	83	0.1	0.2	4.145	A
C-D	3	0.79			3				
C-A	614	154			614				

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	29	7	488	0.060	29	0.1	0.1	8.035	A
B-AD	19	5	312	0.062	19	0.1	0.1	18.950	C
A-BCD	14	4	858	0.017	14	0.0	0.0	4.370	A
A-B	5	1			5				
A-C	489	122			489				
D-AB	28	7	339	0.082	28	0.1	0.1	11.564	B
D-BC	22	5	291	0.075	22	0.1	0.1	13.462	B
C-ABD	83	21	1007	0.083	83	0.2	0.2	4.136	A
C-D	3	0.79			3				
C-A	614	153			614				

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	24	6	525	0.046	24	0.1	0.0	7.356	A
B-AD	16	4	356	0.045	16	0.1	0.1	16.271	C
A-BCD	10	2	817	0.012	10	0.0	0.0	4.570	A
A-B	4	0.94			4				
A-C	401	100			401				
D-AB	23	6	384	0.059	23	0.1	0.1	9.963	A
D-BC	18	4	335	0.053	18	0.1	0.1	11.434	B
C-ABD	55	14	936	0.058	55	0.2	0.1	4.347	A
C-D	3	0.66			3				
C-A	515	129			515				

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	20	5	551	0.036	20	0.0	0.0	6.949	A
B-AD	13	3	389	0.034	13	0.1	0.1	14.733	B
A-BCD	7	2	788	0.009	7	0.0	0.0	4.711	A
A-B	3	0.79			3				
A-C	337	84			337				
D-AB	19	5	416	0.045	19	0.1	0.0	9.062	A
D-BC	15	4	367	0.041	15	0.1	0.0	10.305	B
C-ABD	39	10	886	0.044	39	0.1	0.1	4.549	A
C-D	2	0.56			2				
C-A	437	109			437				

2029DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		1.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.42	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
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 - A47 (E)		ONE HOUR	✓	552	100.000
B - Access Road		ONE HOUR	✓	49	100.000
C - A47 (W)		ONE HOUR	✓	524	100.000
D - Porter's Lane		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	2	539	11
	B - Access Road	1	0	30	17
	C - A47 (W)	445	70	0	9
	D - Porter's Lane	5	16	1	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.00	0.98	0.02
	B - Access Road	0.02	0.00	0.62	0.35
	C - A47 (W)	0.85	0.13	0.00	0.02
	D - Porter's Lane	0.24	0.71	0.06	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	44	2	0
	B - Access Road	76	0	0	0
	C - A47 (W)	1	3	0	0
	D - Porter's Lane	0	0	0	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.439	1.018	1.000
	B - Access Road	1.760	1.000	1.000	1.000
	C - A47 (W)	1.006	1.028	1.000	1.004
	D - Porter's Lane	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - A47 (E)	416	424
	B - Access Road	37	37
	C - A47 (W)	394	398
	D - Porter's Lane	17	17
17:00-17:15	A - A47 (E)	497	506
	B - Access Road	44	45
	C - A47 (W)	471	475
	D - Porter's Lane	20	20
17:15-17:30	A - A47 (E)	608	620
	B - Access Road	54	55
	C - A47 (W)	576	582
	D - Porter's Lane	25	25
17:30-17:45	A - A47 (E)	608	620
	B - Access Road	54	55
	C - A47 (W)	576	582
	D - Porter's Lane	25	25
17:45-18:00	A - A47 (E)	497	506
	B - Access Road	44	45
	C - A47 (W)	471	475
	D - Porter's Lane	20	20
18:00-18:15	A - A47 (E)	416	424
	B - Access Road	37	37
	C - A47 (W)	394	398
	D - Porter's Lane	17	17

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	0.09	8.33	0.1	A	36	54
B-AD	0.04	14.14	0.0	B	10	15
A-BCD	0.04	4.36	0.0	A	24	36
A-B					2	4
A-C					490	735
D-AB	0.04	10.18	0.0	B	12	18
D-BC	0.03	12.32	0.0	B	8	13
C-ABD	0.22	5.40	0.6	A	138	207
C-D					7	10
C-A					340	511

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	29	7	547	0.054	29	0.0	0.1	6.942	A
B-AD	8	2	368	0.022	8	0.0	0.0	10.902	B
A-BCD	16	4	851	0.019	16	0.0	0.0	4.351	A
A-B	2	0.51			2				
A-C	405	101			405				
D-AB	10	2	439	0.023	10	0.0	0.0	8.377	A
D-BC	7	2	375	0.018	7	0.0	0.0	9.773	A
C-ABD	95	24	791	0.120	94	0.0	0.2	5.253	A
C-D	6	1			6				
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	35	9	518	0.068	35	0.1	0.1	7.458	A
B-AD	9	2	335	0.028	9	0.0	0.0	12.063	B
A-BCD	22	6	892	0.025	22	0.0	0.0	4.182	A
A-B	2	0.61			2				
A-C	481	120			481				
D-AB	12	3	410	0.029	12	0.0	0.0	9.041	A
D-BC	8	2	344	0.024	8	0.0	0.0	10.704	B
C-ABD	129	32	822	0.157	129	0.2	0.3	5.287	A
C-D	7	2			7				
C-A	339	85			339				

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	43	11	475	0.090	43	0.1	0.1	8.324	A
B-AD	12	3	290	0.040	12	0.0	0.0	14.121	B
A-BCD	34	8	951	0.036	34	0.0	0.0	3.970	A
A-B	3	0.73			3				
A-C	583	146			583				
D-AB	15	4	369	0.040	15	0.0	0.0	10.168	B
D-BC	10	3	302	0.033	10	0.0	0.0	12.307	B
C-ABD	189	47	868	0.217	188	0.3	0.6	5.391	A
C-D	7	2			7				
C-A	386	96			386				

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	43	11	475	0.090	43	0.1	0.1	8.331	A
B-AD	12	3	290	0.040	12	0.0	0.0	14.137	B
A-BCD	34	8	951	0.036	34	0.0	0.0	3.976	A
A-B	3	0.73			3				
A-C	583	146			583				
D-AB	15	4	368	0.040	15	0.0	0.0	10.176	B
D-BC	10	3	302	0.033	10	0.0	0.0	12.318	B
C-ABD	189	47	868	0.218	189	0.6	0.6	5.396	A
C-D	7	2			7				
C-A	385	96			385				

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	35	9	517	0.068	35	0.1	0.1	7.468	A
B-AD	9	2	335	0.028	10	0.0	0.0	12.080	B
A-BCD	23	6	892	0.025	23	0.0	0.0	4.192	A
A-B	2	0.61			2				
A-C	481	120			481				
D-AB	12	3	410	0.029	12	0.0	0.0	9.052	A
D-BC	8	2	344	0.024	8	0.0	0.0	10.719	B
C-ABD	129	32	823	0.157	130	0.6	0.4	5.292	A
C-D	6	2			6				
C-A	339	85			339				

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	29	7	547	0.054	29	0.1	0.1	6.954	A
B-AD	8	2	368	0.022	8	0.0	0.0	10.918	B
A-BCD	16	4	851	0.019	16	0.0	0.0	4.356	A
A-B	2	0.51			2				
A-C	405	101			405				
D-AB	10	2	439	0.023	10	0.0	0.0	8.389	A
D-BC	7	2	375	0.018	7	0.0	0.0	9.789	A
C-ABD	96	24	792	0.121	96	0.4	0.2	5.273	A
C-D	6	1			6				
C-A	296	74			296				

2039DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		5.72	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.72	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 - A47 (E)		ONE HOUR	✓	506	100.000
B - Access Road		ONE HOUR	✓	189	100.000
C - A47 (W)		ONE HOUR	✓	753	100.000
D - Porter's Lane		ONE HOUR	✓	129	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	30	474	2
	B - Access Road	98	0	32	58
	C - A47 (W)	716	32	0	5
	D - Porter's Lane	2	117	11	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.06	0.94	0.00
	B - Access Road	0.52	0.00	0.17	0.31
	C - A47 (W)	0.95	0.04	0.00	0.01
	D - Porter's Lane	0.01	0.90	0.08	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	2	4	3
	B - Access Road	5	0	4	3
	C - A47 (W)	3	11	0	1
	D - Porter's Lane	0	2	1	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.020	1.036	1.031
	B - Access Road	1.052	1.000	1.035	1.033
	C - A47 (W)	1.035	1.105	1.000	1.007
	D - Porter's Lane	1.000	1.019	1.014	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - A47 (E)	381	394
	B - Access Road	142	148
	C - A47 (W)	567	588
	D - Porter's Lane	97	99
07:30-07:45	A - A47 (E)	455	471
	B - Access Road	169	177
	C - A47 (W)	677	702
	D - Porter's Lane	116	118
07:45-08:00	A - A47 (E)	557	577
	B - Access Road	208	217
	C - A47 (W)	829	860
	D - Porter's Lane	142	145
08:00-08:15	A - A47 (E)	557	577
	B - Access Road	208	217
	C - A47 (W)	829	860
	D - Porter's Lane	142	145
08:15-08:30	A - A47 (E)	455	471
	B - Access Road	169	177
	C - A47 (W)	677	702
	D - Porter's Lane	116	118
08:30-08:45	A - A47 (E)	381	394
	B - Access Road	142	148
	C - A47 (W)	567	588
	D - Porter's Lane	97	99

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	0.33	21.01	0.5	C	68	102
B-AD	0.54	33.83	1.2	D	113	169
A-BCD	0.01	4.66	0.0	A	5	7
A-B					28	42
A-C					448	672
D-AB	0.32	24.22	0.5	C	58	88
D-BC	0.32	23.10	0.5	C	62	93
C-ABD	0.14	4.34	0.4	A	106	159
C-D					4	6
C-A					607	911

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	53	13	412	0.128	52	0.0	0.2	10.342	B
B-AD	95	24	350	0.272	94	0.0	0.4	14.659	B
A-BCD	3	0.79	801	0.004	3	0.0	0.0	4.657	A
A-B	23	6			23				
A-C	368	92			368				
D-AB	47	12	326	0.145	47	0.0	0.2	13.090	B
D-BC	52	13	332	0.156	51	0.0	0.2	13.001	B
C-ABD	66	16	947	0.070	65	0.0	0.1	4.336	A
C-D	3	0.82			3				
C-A	519	130			519				

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	65	16	357	0.183	65	0.2	0.2	12.727	B
B-AD	111	28	307	0.363	111	0.4	0.6	19.170	C
A-BCD	4	1	834	0.005	4	0.0	0.0	4.481	A
A-B	28	7			28				
A-C	439	110			439				
D-AB	57	14	284	0.201	57	0.2	0.3	16.118	C
D-BC	61	15	292	0.210	61	0.2	0.3	15.845	C
C-ABD	96	24	1011	0.095	95	0.1	0.2	4.167	A
C-D	4	0.95			4				
C-A	603	151			603				

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	85	21	266	0.321	84	0.2	0.5	20.388	C
B-AD	131	33	243	0.540	129	0.6	1.1	32.476	D
A-BCD	7	2	884	0.008	7	0.0	0.0	4.242	A
A-B	34	8			34				
A-C	536	134			536				
D-AB	71	18	223	0.319	70	0.3	0.5	23.869	C
D-BC	74	18	233	0.316	73	0.3	0.5	22.814	C
C-ABD	155	39	1102	0.141	154	0.2	0.4	4.005	A
C-D	4	1			4				
C-A	701	175			701				

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	86	21	263	0.326	85	0.5	0.5	21.006	C
B-AD	131	33	242	0.541	131	1.1	1.2	33.825	D
A-BCD	7	2	883	0.008	7	0.0	0.0	4.245	A
A-B	34	8			34				
A-C	536	134			536				
D-AB	71	18	222	0.320	71	0.5	0.5	24.219	C
D-BC	74	18	232	0.317	74	0.5	0.5	23.098	C
C-ABD	155	39	1103	0.141	155	0.4	0.4	4.001	A
C-D	4	1			4				
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-CD	66	16	354	0.186	67	0.5	0.2	13.005	B
B-AD	111	28	306	0.363	113	1.2	0.6	19.850	C
A-BCD	4	1	834	0.005	4	0.0	0.0	4.484	A
A-B	28	7			28				
A-C	439	110			439				
D-AB	57	14	283	0.201	58	0.5	0.3	16.335	C
D-BC	61	15	291	0.210	62	0.5	0.3	16.030	C
C-ABD	96	24	1011	0.095	97	0.4	0.2	4.151	A
C-D	4	0.95			4				
C-A	602	151			602				

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	53	13	410	0.129	53	0.2	0.2	10.458	B
B-AD	95	24	349	0.272	96	0.6	0.4	14.961	B
A-BCD	3	0.79	801	0.004	3	0.0	0.0	4.661	A
A-B	23	6			23				
A-C	368	92			368				
D-AB	47	12	325	0.145	48	0.3	0.2	13.216	B
D-BC	52	13	332	0.156	52	0.3	0.2	13.118	B
C-ABD	66	17	948	0.070	67	0.2	0.1	4.329	A
C-D	3	0.82			3				
C-A	518	130			518				

2039DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		5.20	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.20	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	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 - A47 (E)		ONE HOUR	✓	569	100.000
B - Access Road		ONE HOUR	✓	236	100.000
C - A47 (W)		ONE HOUR	✓	568	100.000
D - Porter's Lane		ONE HOUR	✓	55	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	63	505	2
	B - Access Road	57	0	51	129
	C - A47 (W)	486	69	0	13
	D - Porter's Lane	0.62	52	3	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.11	0.89	0.00
	B - Access Road	0.24	0.00	0.21	0.55
	C - A47 (W)	0.86	0.12	0.00	0.02
	D - Porter's Lane	0.01	0.93	0.06	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	2	2	0
	B - Access Road	2	0	0	1
	C - A47 (W)	1	3	0	3
	D - Porter's Lane	0	0	0	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.021	1.024	1.000
	B - Access Road	1.019	1.000	1.000	1.013
	C - A47 (W)	1.007	1.029	1.000	1.033
	D - Porter's Lane	1.000	1.004	1.001	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - A47 (E)	428	438
	B - Access Road	178	180
	C - A47 (W)	428	432
	D - Porter's Lane	42	42
17:00-17:15	A - A47 (E)	511	523
	B - Access Road	212	215
	C - A47 (W)	511	516
	D - Porter's Lane	50	50
17:15-17:30	A - A47 (E)	626	641
	B - Access Road	260	263
	C - A47 (W)	626	632
	D - Porter's Lane	61	61
17:30-17:45	A - A47 (E)	626	641
	B - Access Road	260	263
	C - A47 (W)	626	632
	D - Porter's Lane	61	61
17:45-18:00	A - A47 (E)	511	523
	B - Access Road	212	215
	C - A47 (W)	511	516
	D - Porter's Lane	50	50
18:00-18:15	A - A47 (E)	428	438
	B - Access Road	178	180
	C - A47 (W)	428	432
	D - Porter's Lane	42	42

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	0.49	23.86	0.9	C	117	175
B-AD	0.46	25.74	0.8	D	102	153
A-BCD	0.01	4.26	0.0	A	4	5
A-B					58	88
A-C					472	708
D-AB	0.10	14.07	0.1	B	25	37
D-BC	0.11	14.20	0.1	B	26	39
C-ABD	0.23	5.26	0.6	A	147	221
C-D					10	16
C-A					369	554

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	93	23	415	0.224	92	0.0	0.3	11.172	B
B-AD	87	22	370	0.234	86	0.0	0.3	12.799	B
A-BCD	2	0.59	860	0.003	2	0.0	0.0	4.248	A
A-B	48	12			48				
A-C	388	97			388				
D-AB	20	5	366	0.055	20	0.0	0.1	10.445	B
D-BC	22	5	364	0.059	21	0.0	0.1	10.524	B
C-ABD	100	25	813	0.123	99	0.0	0.3	5.128	A
C-D	9	2			9				
C-A	323	81			323				

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	113	28	369	0.307	113	0.3	0.4	14.109	B
B-AD	101	25	329	0.308	101	0.3	0.4	15.986	C
A-BCD	3	0.83	903	0.004	3	0.0	0.0	4.054	A
A-B	57	14			57				
A-C	463	116			463				
D-AB	24	6	332	0.072	24	0.1	0.1	11.711	B
D-BC	26	6	332	0.078	26	0.1	0.1	11.808	B
C-ABD	137	34	849	0.161	136	0.3	0.4	5.149	A
C-D	10	3			10				
C-A	369	92			369				

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	144	36	297	0.484	142	0.4	0.9	23.053	C
B-AD	119	30	262	0.454	118	0.4	0.8	25.049	D
A-BCD	5	1	966	0.005	5	0.0	0.0	3.802	A
A-B	70	18			70				
A-C	566	141			566				
D-AB	30	7	287	0.103	29	0.1	0.1	14.039	B
D-BC	31	8	286	0.110	31	0.1	0.1	14.162	B
C-ABD	204	51	902	0.226	203	0.4	0.6	5.247	A
C-D	12	3			12				
C-A	417	104			417				

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	144	36	296	0.487	144	0.9	0.9	23.857	C
B-AD	119	30	261	0.456	119	0.8	0.8	25.740	D
A-BCD	5	1	965	0.005	5	0.0	0.0	3.806	A
A-B	70	18			70				
A-C	566	141			566				
D-AB	30	7	286	0.103	30	0.1	0.1	14.067	B
D-BC	31	8	286	0.110	31	0.1	0.1	14.196	B
C-ABD	204	51	902	0.226	204	0.6	0.6	5.257	A
C-D	12	3			12				
C-A	416	104			416				

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	114	28	367	0.309	115	0.9	0.5	14.501	B
B-AD	101	25	328	0.308	103	0.8	0.5	16.342	C
A-BCD	3	0.83	902	0.004	3	0.0	0.0	4.064	A
A-B	57	14			57				
A-C	463	116			463				
D-AB	24	6	332	0.072	24	0.1	0.1	11.741	B
D-BC	26	6	331	0.078	26	0.1	0.1	11.844	B
C-ABD	137	34	850	0.162	138	0.6	0.4	5.156	A
C-D	10	3			10				
C-A	368	92			368				

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	93	23	414	0.225	94	0.5	0.3	11.351	B
B-AD	87	22	369	0.235	87	0.5	0.3	12.992	B
A-BCD	2	0.60	860	0.003	2	0.0	0.0	4.255	A
A-B	48	12			48				
A-C	388	97			388				
D-AB	20	5	365	0.055	20	0.1	0.1	10.478	B
D-BC	22	5	364	0.059	22	0.1	0.1	10.558	B
C-ABD	100	25	814	0.123	101	0.4	0.3	5.148	A
C-D	9	2			9				
C-A	323	81			323				

2039DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		0.81	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.81	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 - A47 (E)		ONE HOUR	✓	460	100.000
B - Access Road		ONE HOUR	✓	21	100.000
C - A47 (W)		ONE HOUR	✓	655	100.000
D - Porter's Lane		ONE HOUR	✓	19	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	6	452	2
	B - Access Road	6	0	15	0.26
	C - A47 (W)	618	21	0	16
	D - Porter's Lane	2	7	11	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.01	0.98	0.00
	B - Access Road	0.30	0.00	0.69	0.01
	C - A47 (W)	0.94	0.03	0.00	0.03
	D - Porter's Lane	0.09	0.35	0.57	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	14	3	0
	B - Access Road	97	0	4	24
	C - A47 (W)	1	13	0	72
	D - Porter's Lane	0	0	1	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.142	1.029	1.005
	B - Access Road	1.970	1.000	1.042	1.237
	C - A47 (W)	1.013	1.126	1.000	1.719
	D - Porter's Lane	1.002	1.002	1.006	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - A47 (E)	346	357
	B - Access Road	16	21
	C - A47 (W)	493	510
	D - Porter's Lane	14	15
07:30-07:45	A - A47 (E)	414	426
	B - Access Road	19	25
	C - A47 (W)	589	609
	D - Porter's Lane	17	17
07:45-08:00	A - A47 (E)	506	522
	B - Access Road	23	31
	C - A47 (W)	721	746
	D - Porter's Lane	21	21
08:00-08:15	A - A47 (E)	506	522
	B - Access Road	23	31
	C - A47 (W)	721	746
	D - Porter's Lane	21	21
08:15-08:30	A - A47 (E)	414	426
	B - Access Road	19	25
	C - A47 (W)	589	609
	D - Porter's Lane	17	17
08:30-08:45	A - A47 (E)	346	357
	B - Access Road	16	21
	C - A47 (W)	493	510
	D - Porter's Lane	14	15

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	0.03	6.81	0.0	A	14	21
B-AD	0.05	23.96	0.1	C	12	18
A-BCD	0.01	4.65	0.0	A	4	6
A-B					6	9
A-C					425	637
D-AB	0.02	11.35	0.0	B	5	7
D-BC	0.05	13.39	0.1	B	13	20
C-ABD	0.08	4.45	0.2	A	60	90
C-D					24	36
C-A					537	806

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	12	3	617	0.019	11	0.0	0.0	6.207	A
B-AD	10	2	384	0.025	9	0.0	0.0	18.793	C
A-BCD	3	0.69	791	0.004	3	0.0	0.0	4.640	A
A-B	5	1			5				
A-C	349	87			349				
D-AB	4	0.96	402	0.010	4	0.0	0.0	9.051	A
D-BC	11	3	366	0.029	11	0.0	0.0	10.180	B
C-ABD	39	10	907	0.043	39	0.0	0.1	4.448	A
C-D	20	5			20				
C-A	451	113			451				

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	14	3	596	0.023	14	0.0	0.0	6.445	A
B-AD	11	3	352	0.033	11	0.0	0.1	20.666	C
A-BCD	4	0.95	820	0.005	4	0.0	0.0	4.484	A
A-B	6	1			6				
A-C	416	104			416				
D-AB	5	1	370	0.012	5	0.0	0.0	9.883	A
D-BC	13	3	332	0.038	13	0.0	0.0	11.321	B
C-ABD	55	14	961	0.058	55	0.1	0.1	4.249	A
C-D	24	6			24				
C-A	530	133			530				

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	17	4	569	0.030	17	0.0	0.0	6.804	A
B-AD	14	4	308	0.046	14	0.1	0.1	23.946	C
A-BCD	6	1	864	0.007	6	0.0	0.0	4.275	A
A-B	7	2			7				
A-C	509	127			509				
D-AB	6	1	324	0.018	6	0.0	0.0	11.351	B
D-BC	16	4	286	0.054	16	0.0	0.1	13.381	B
C-ABD	86	21	1038	0.083	85	0.1	0.2	4.013	A
C-D	29	7			29				
C-A	632	158			632				

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	17	4	568	0.030	17	0.0	0.0	6.808	A
B-AD	14	4	308	0.046	14	0.1	0.1	23.959	C
A-BCD	6	1	864	0.007	6	0.0	0.0	4.281	A
A-B	7	2			7				
A-C	509	127			509				
D-AB	6	1	323	0.018	6	0.0	0.0	11.354	B
D-BC	16	4	286	0.054	16	0.1	0.1	13.390	B
C-ABD	86	21	1038	0.083	86	0.2	0.2	4.001	A
C-D	29	7			29				
C-A	632	158			632				

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	14	3	596	0.023	14	0.0	0.0	6.454	A
B-AD	11	3	352	0.033	12	0.1	0.1	20.675	C
A-BCD	4	0.95	820	0.005	4	0.0	0.0	4.494	A
A-B	6	1			6				
A-C	416	104			416				
D-AB	5	1	369	0.012	5	0.0	0.0	9.891	A
D-BC	13	3	332	0.038	13	0.1	0.0	11.334	B
C-ABD	55	14	961	0.058	56	0.2	0.1	4.223	A
C-D	24	6			24				
C-A	530	132			530				

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	12	3	616	0.019	12	0.0	0.0	6.219	A
B-AD	10	2	384	0.025	10	0.1	0.1	18.800	C
A-BCD	3	0.70	791	0.004	3	0.0	0.0	4.645	A
A-B	5	1			5				
A-C	349	87			349				
D-AB	4	0.96	402	0.010	4	0.0	0.0	9.055	A
D-BC	11	3	366	0.029	11	0.0	0.0	10.192	B
C-ABD	39	10	907	0.043	39	0.1	0.1	4.435	A
C-D	20	5			20				
C-A	451	113			451				

2039DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		0.76	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.76	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 - A47 (E)		ONE HOUR	✓	551	100.000
B - Access Road		ONE HOUR	✓	32	100.000
C - A47 (W)		ONE HOUR	✓	556	100.000
D - Porter's Lane		ONE HOUR	✓	5	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	1	546	4
	B - Access Road	1	0	31	0.37
	C - A47 (W)	494	49	0	12
	D - Porter's Lane	0.62	2	2	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.00	0.99	0.01
	B - Access Road	0.04	0.00	0.95	0.01
	C - A47 (W)	0.89	0.09	0.00	0.02
	D - Porter's Lane	0.12	0.45	0.43	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	61	2	0
	B - Access Road	79	0	0	0
	C - A47 (W)	1	4	0	0
	D - Porter's Lane	0	0	0	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.613	1.020	1.000
	B - Access Road	1.795	1.000	1.000	1.000
	C - A47 (W)	1.006	1.039	1.000	1.004
	D - Porter's Lane	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - A47 (E)	415	424
	B - Access Road	24	25
	C - A47 (W)	418	422
	D - Porter's Lane	0	0
17:00-17:15	A - A47 (E)	496	506
	B - Access Road	29	30
	C - A47 (W)	499	504
	D - Porter's Lane	0	0
17:15-17:30	A - A47 (E)	607	620
	B - Access Road	35	36
	C - A47 (W)	612	617
	D - Porter's Lane	0	0
17:30-17:45	A - A47 (E)	607	620
	B - Access Road	35	36
	C - A47 (W)	612	617
	D - Porter's Lane	0	0
17:45-18:00	A - A47 (E)	496	506
	B - Access Road	29	30
	C - A47 (W)	499	504
	D - Porter's Lane	0	0
18:00-18:15	A - A47 (E)	415	424
	B - Access Road	24	25
	C - A47 (W)	418	422
	D - Porter's Lane	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	0.06	6.91	0.1	A	28	42
B-AD	0.01	22.24	0.0	C	2	3
A-BCD	0.01	4.30	0.0	A	8	12
A-B					2	3
A-C					507	760
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.16	4.94	0.4	A	107	161
C-D					10	15
C-A					397	596

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	23	6	607	0.038	23	0.0	0.0	6.158	A
B-AD	2	0.42	349	0.005	2	0.0	0.0	17.468	C
A-BCD	5	1	852	0.006	5	0.0	0.0	4.296	A
A-B	2	0.42			2				
A-C	417	104			417				
D-AB	0	0	455	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	369	0.000	0	0.0	0.0	0.000	A
C-ABD	73	18	819	0.089	72	0.0	0.2	4.932	A
C-D	8	2			8				
C-A	341	85			341				

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	28	7	585	0.047	28	0.0	0.0	6.455	A
B-AD	2	0.50	318	0.006	2	0.0	0.0	19.198	C
A-BCD	7	2	893	0.008	7	0.0	0.0	4.111	A
A-B	2	0.50			2				
A-C	497	124			497				
D-AB	0	0	426	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	338	0.000	0	0.0	0.0	0.000	A
C-ABD	100	25	856	0.117	99	0.2	0.3	4.868	A
C-D	10	2			10				
C-A	394	99			394				

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	34	8	555	0.061	34	0.0	0.1	6.913	A
B-AD	2	0.61	275	0.009	2	0.0	0.0	22.227	C
A-BCD	11	3	953	0.012	11	0.0	0.0	3.872	A
A-B	2	0.60			2				
A-C	606	152			606				
D-AB	0	0	385	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	294	0.000	0	0.0	0.0	0.000	A
C-ABD	149	37	910	0.163	148	0.3	0.4	4.828	A
C-D	11	3			11				
C-A	457	114			457				

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	34	8	555	0.061	34	0.1	0.1	6.913	A
B-AD	2	0.61	275	0.009	2	0.0	0.0	22.241	C
A-BCD	11	3	953	0.012	11	0.0	0.0	3.875	A
A-B	2	0.60			2				
A-C	606	152			606				
D-AB	0	0	385	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	294	0.000	0	0.0	0.0	0.000	A
C-ABD	149	37	910	0.164	149	0.4	0.4	4.828	A
C-D	11	3			11				
C-A	457	114			457				

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	28	7	585	0.047	28	0.1	0.0	6.457	A
B-AD	2	0.50	317	0.006	2	0.0	0.0	19.214	C
A-BCD	7	2	893	0.008	7	0.0	0.0	4.120	A
A-B	2	0.50			2				
A-C	497	124			497				
D-AB	0	0	426	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	337	0.000	0	0.0	0.0	0.000	A
C-ABD	100	25	857	0.117	101	0.4	0.3	4.867	A
C-D	10	2			10				
C-A	394	99			394				

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	23	6	607	0.038	23	0.0	0.0	6.162	A
B-AD	2	0.42	348	0.005	2	0.0	0.0	17.484	C
A-BCD	5	1	852	0.006	5	0.0	0.0	4.303	A
A-B	2	0.42			2				
A-C	417	104			417				
D-AB	0	0	455	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	369	0.000	0	0.0	0.0	0.000	A
C-ABD	73	18	820	0.089	74	0.3	0.2	4.940	A
C-D	8	2			8				
C-A	340	85			340				

2039DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		1.37	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.37	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 - A47 (E)		ONE HOUR	✓	477	100.000
B - Access Road		ONE HOUR	✓	46	100.000
C - A47 (W)		ONE HOUR	✓	646	100.000
D - Porter's Lane		ONE HOUR	✓	40	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	3	456	18
	B - Access Road	6	0	13	27
	C - A47 (W)	622	21	0	3
	D - Porter's Lane	11	24	6	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.01	0.96	0.04
	B - Access Road	0.14	0.00	0.28	0.58
	C - A47 (W)	0.96	0.03	0.00	0.01
	D - Porter's Lane	0.27	0.59	0.14	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	30	3	1
	B - Access Road	97	0	5	0
	C - A47 (W)	3	13	0	0
	D - Porter's Lane	0	0	2	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.299	1.029	1.010
	B - Access Road	1.971	1.000	1.047	1.000
	C - A47 (W)	1.032	1.126	1.000	1.004
	D - Porter's Lane	1.002	1.001	1.017	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - A47 (E)	359	370
	B - Access Road	35	40
	C - A47 (W)	487	504
	D - Porter's Lane	30	31
07:30-07:45	A - A47 (E)	429	441
	B - Access Road	41	48
	C - A47 (W)	581	601
	D - Porter's Lane	36	37
07:45-08:00	A - A47 (E)	525	541
	B - Access Road	51	58
	C - A47 (W)	712	736
	D - Porter's Lane	45	45
08:00-08:15	A - A47 (E)	525	541
	B - Access Road	51	58
	C - A47 (W)	712	736
	D - Porter's Lane	45	45
08:15-08:30	A - A47 (E)	429	441
	B - Access Road	41	48
	C - A47 (W)	581	601
	D - Porter's Lane	36	37
08:30-08:45	A - A47 (E)	359	370
	B - Access Road	35	40
	C - A47 (W)	487	504
	D - Porter's Lane	30	31

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	0.08	10.30	0.1	B	25	38
B-AD	0.09	17.48	0.1	C	23	35
A-BCD	0.06	4.78	0.1	A	36	54
A-B					3	5
A-C					411	617
D-AB	0.07	11.26	0.1	B	21	32
D-BC	0.07	14.24	0.1	B	16	24
C-ABD	0.08	4.49	0.2	A	60	90
C-D					3	4
C-A					551	827

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	20	5	467	0.044	20	0.0	0.0	8.230	A
B-AD	19	5	382	0.051	19	0.0	0.1	13.115	B
A-BCD	25	6	793	0.031	24	0.0	0.0	4.774	A
A-B	3	0.65			3				
A-C	342	86			342				
D-AB	17	4	428	0.040	17	0.0	0.0	8.773	A
D-BC	13	3	355	0.037	13	0.0	0.0	10.579	B
C-ABD	39	10	899	0.043	39	0.0	0.1	4.489	A
C-D	2	0.59			2				
C-A	462	116			462				

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	25	6	435	0.056	24	0.0	0.1	8.973	A
B-AD	23	6	348	0.066	23	0.1	0.1	14.650	B
A-BCD	34	8	822	0.041	34	0.0	0.1	4.654	A
A-B	3	0.77			3				
A-C	405	101			405				
D-AB	21	5	394	0.053	21	0.0	0.1	9.656	A
D-BC	16	4	321	0.049	16	0.0	0.1	11.863	B
C-ABD	55	14	952	0.058	55	0.1	0.1	4.294	A
C-D	3	0.69			3				
C-A	544	136			544				

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	30	8	388	0.078	30	0.1	0.1	10.289	B
B-AD	28	7	301	0.093	28	0.1	0.1	17.434	C
A-BCD	50	12	866	0.058	50	0.1	0.1	4.503	A
A-B	4	0.93			4				
A-C	487	122			487				
D-AB	25	6	346	0.074	25	0.1	0.1	11.245	B
D-BC	19	5	274	0.070	19	0.1	0.1	14.227	B
C-ABD	85	21	1027	0.083	85	0.1	0.2	4.056	A
C-D	3	0.82			3				
C-A	648	162			648				

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	30	8	388	0.078	30	0.1	0.1	10.297	B
B-AD	28	7	301	0.093	28	0.1	0.1	17.482	C
A-BCD	50	13	866	0.058	50	0.1	0.1	4.510	A
A-B	4	0.93			4				
A-C	487	122			487				
D-AB	25	6	346	0.074	25	0.1	0.1	11.256	B
D-BC	19	5	274	0.070	19	0.1	0.1	14.242	B
C-ABD	85	21	1028	0.083	85	0.2	0.2	4.048	A
C-D	3	0.82			3				
C-A	648	162			648				

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	25	6	434	0.057	25	0.1	0.1	8.983	A
B-AD	23	6	348	0.066	23	0.1	0.1	14.711	B
A-BCD	34	8	822	0.041	34	0.1	0.1	4.664	A
A-B	3	0.77			3				
A-C	405	101			405				
D-AB	21	5	394	0.053	21	0.1	0.1	9.668	A
D-BC	16	4	321	0.049	16	0.1	0.1	11.879	B
C-ABD	55	14	952	0.058	55	0.2	0.1	4.266	A
C-D	3	0.69			3				
C-A	544	136			544				

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	20	5	467	0.044	21	0.1	0.0	8.245	A
B-AD	19	5	381	0.051	19	0.1	0.1	13.161	B
A-BCD	25	6	793	0.031	25	0.1	0.0	4.780	A
A-B	3	0.65			3				
A-C	342	86			342				
D-AB	17	4	428	0.040	17	0.1	0.0	8.789	A
D-BC	13	3	355	0.037	13	0.1	0.0	10.597	B
C-ABD	39	10	899	0.043	39	0.1	0.1	4.476	A
C-D	2	0.59			2				
C-A	462	116			462				

2039DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access 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.
Warning	Minor arm flare	D - Porter's Lane - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Minor arm visibility to right	D - Porter's 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
J3	Fakenham Road/ Norwich Road/ Porter's Lane	Crossroads	Two-way	Two-way	Two-way	Two-way		1.28	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.28	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 - A47 (E)		ONE HOUR	✓	573	100.000
B - Access Road		ONE HOUR	✓	49	100.000
C - A47 (W)		ONE HOUR	✓	552	100.000
D - Porter's Lane		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	1	548	24
	B - Access Road	1	0	24	24
	C - A47 (W)	495	49	0	8
	D - Porter's Lane	5	9	2	0

Proportions

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0.00	0.00	0.96	0.04
	B - Access Road	0.02	0.00	0.48	0.50
	C - A47 (W)	0.90	0.09	0.00	0.01
	D - Porter's Lane	0.33	0.55	0.12	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	0	62	2	0
	B - Access Road	79	0	0	0
	C - A47 (W)	1	4	0	0
	D - Porter's Lane	0	0	0	0

Average PCU Per Veh

		To			
		A - A47 (E)	B - Access Road	C - A47 (W)	D - Porter's Lane
From	A - A47 (E)	1.000	1.624	1.020	1.000
	B - Access Road	1.795	1.000	1.000	1.000
	C - A47 (W)	1.006	1.040	1.000	1.004
	D - Porter's Lane	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - A47 (E)	432	440
	B - Access Road	37	38
	C - A47 (W)	416	420
	D - Porter's Lane	12	12
17:00-17:15	A - A47 (E)	515	526
	B - Access Road	44	45
	C - A47 (W)	496	501
	D - Porter's Lane	14	14
17:15-17:30	A - A47 (E)	631	644
	B - Access Road	54	55
	C - A47 (W)	608	614
	D - Porter's Lane	17	17
17:30-17:45	A - A47 (E)	631	644
	B - Access Road	54	55
	C - A47 (W)	608	614
	D - Porter's Lane	17	17
17:45-18:00	A - A47 (E)	515	526
	B - Access Road	44	45
	C - A47 (W)	496	501
	D - Porter's Lane	14	14
18:00-18:15	A - A47 (E)	432	440
	B - Access Road	37	38
	C - A47 (W)	416	420
	D - Porter's Lane	12	12

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	0.09	9.52	0.1	A	33	49
B-AD	0.05	13.86	0.1	B	13	19
A-BCD	0.08	4.46	0.2	A	54	81
A-B					2	3
A-C					480	721
D-AB	0.03	9.57	0.0	A	9	13
D-BC	0.02	12.87	0.0	B	6	8
C-ABD	0.16	4.98	0.4	A	107	160
C-D					6	10
C-A					398	597

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	27	7	495	0.054	27	0.0	0.1	7.677	A
B-AD	11	3	376	0.028	11	0.0	0.0	10.513	B
A-BCD	36	9	853	0.042	36	0.0	0.1	4.451	A
A-B	2	0.39			2				
A-C	402	101			402				
D-AB	7	2	460	0.015	7	0.0	0.0	7.954	A
D-BC	5	1	364	0.013	5	0.0	0.0	10.006	B
C-ABD	72	18	813	0.089	71	0.0	0.2	4.969	A
C-D	6	1			6				
C-A	342	85			342				

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	32	8	463	0.069	32	0.1	0.1	8.344	A
B-AD	13	3	341	0.037	13	0.0	0.0	11.700	B
A-BCD	50	13	894	0.056	50	0.1	0.1	4.314	A
A-B	2	0.46			2				
A-C	474	118			474				
D-AB	8	2	430	0.020	8	0.0	0.0	8.550	A
D-BC	5	1	332	0.016	5	0.0	0.0	11.036	B
C-ABD	99	25	849	0.117	99	0.2	0.3	4.911	A
C-D	6	2			6				
C-A	395	99			395				

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	39	10	418	0.094	39	0.1	0.1	9.512	A
B-AD	15	4	293	0.053	15	0.0	0.1	13.842	B
A-BCD	76	19	954	0.080	76	0.1	0.1	4.151	A
A-B	2	0.55			2				
A-C	566	141			566				
D-AB	10	3	387	0.027	10	0.0	0.0	9.569	A
D-BC	7	2	287	0.023	7	0.0	0.0	12.853	B
C-ABD	148	37	902	0.164	147	0.3	0.4	4.876	A
C-D	7	2			7				
C-A	458	115			458				

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	39	10	417	0.094	39	0.1	0.1	9.522	A
B-AD	15	4	293	0.053	15	0.1	0.1	13.858	B
A-BCD	76	19	954	0.080	76	0.1	0.2	4.158	A
A-B	2	0.55			2				
A-C	565	141			565				
D-AB	10	3	386	0.027	10	0.0	0.0	9.574	A
D-BC	7	2	286	0.023	7	0.0	0.0	12.865	B
C-ABD	148	37	902	0.164	148	0.4	0.4	4.877	A
C-D	7	2			7				
C-A	458	114			458				

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	32	8	463	0.069	32	0.1	0.1	8.357	A
B-AD	13	3	341	0.037	13	0.1	0.0	11.722	B
A-BCD	50	13	894	0.056	51	0.2	0.1	4.326	A
A-B	2	0.46			2				
A-C	473	118			473				
D-AB	8	2	429	0.020	9	0.0	0.0	8.558	A
D-BC	5	1	331	0.016	5	0.0	0.0	11.052	B
C-ABD	100	25	850	0.117	100	0.4	0.3	4.908	A
C-D	6	2			6				
C-A	395	99			395				

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	27	7	495	0.054	27	0.1	0.1	7.692	A
B-AD	11	3	376	0.028	11	0.0	0.0	10.535	B
A-BCD	36	9	853	0.043	37	0.1	0.1	4.462	A
A-B	2	0.39			2				
A-C	402	101			402				
D-AB	7	2	459	0.015	7	0.0	0.0	7.961	A
D-BC	5	1	364	0.013	5	0.0	0.0	10.021	B
C-ABD	73	18	814	0.089	73	0.3	0.2	4.977	A
C-D	6	1			6				
C-A	341	85			341				