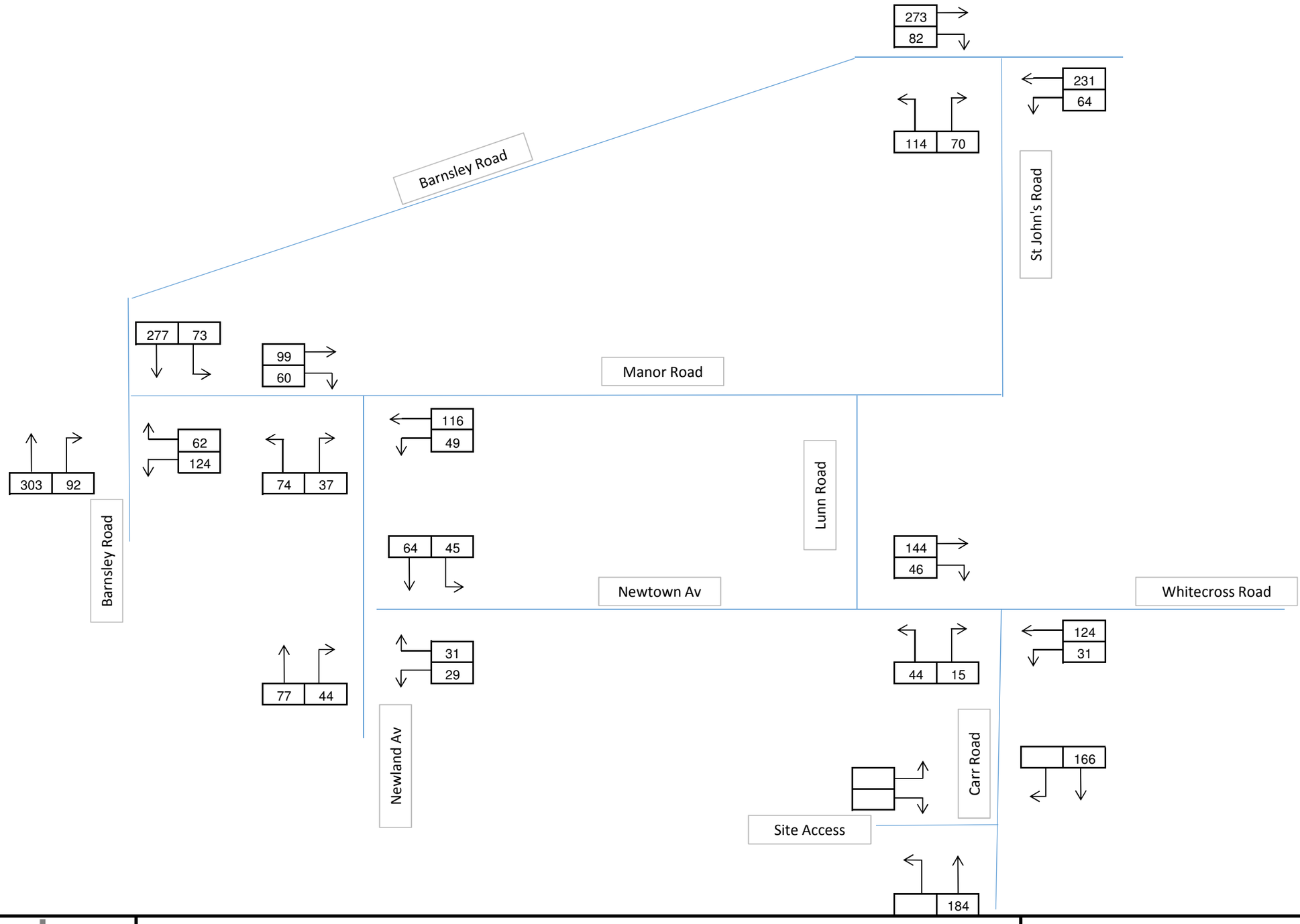
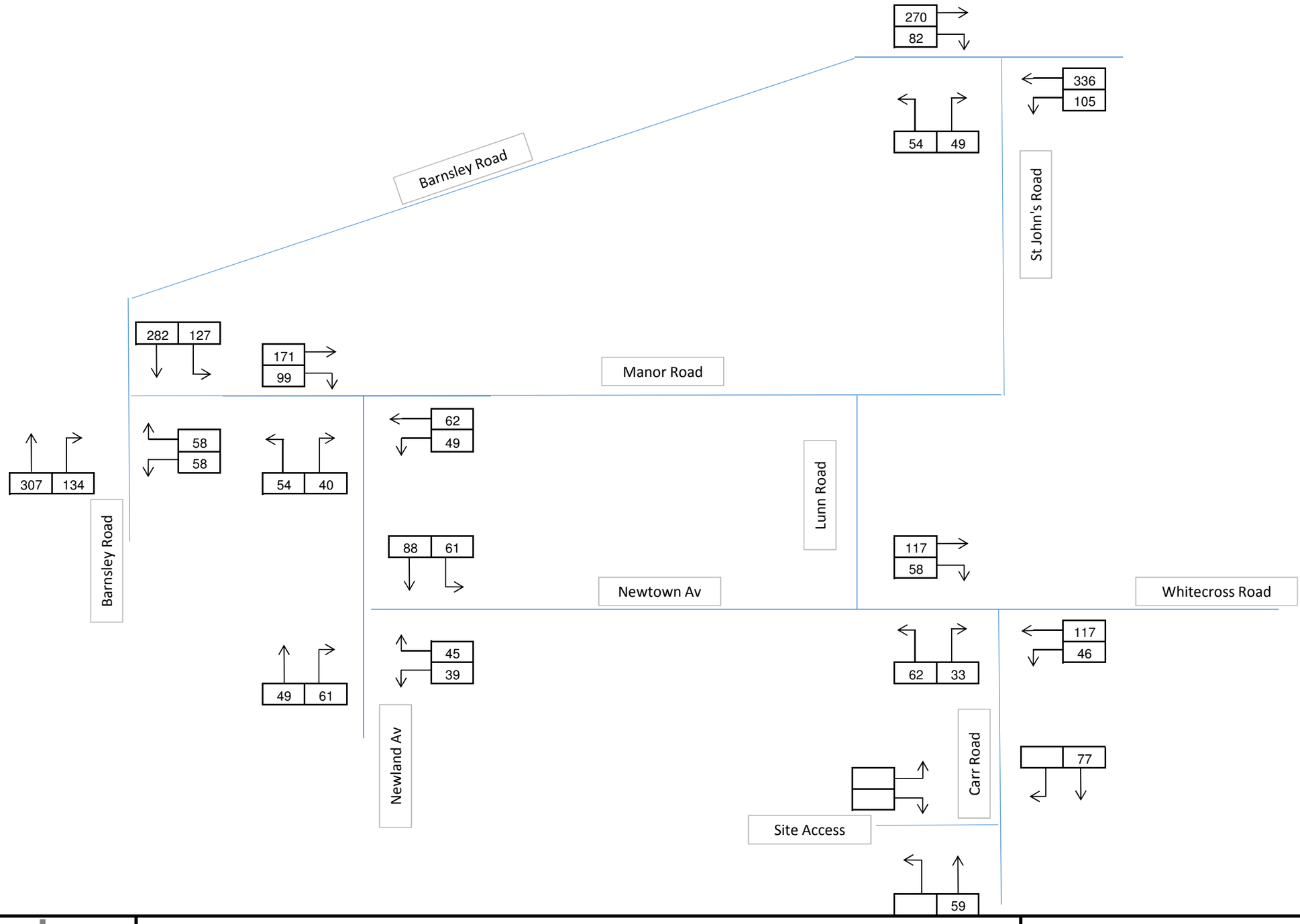
S|C|P

APPENDIX 7



S C P Transportation Planning : Infrastructure Design	**AM Peak - Surveyed Flows - PCUs**	**09 October 2015**
		Job Number - SCP/14923
	Proposed Residential Development, Cudworth, Barnsley	**Traffic Figure 1**

Z:\Job Library\2014\14923 - Carrs Lane, Cudworth, Barnsley\Traffic Data\20150915 Cudworth flow diagrams.xls



Transportation Planning : Infrastructure Design

PM Peak - Surveyed Flows - PCUs

Proposed Residential Development, Cudworth, Barnsley

09 October 2015

Job Number - SCP/14923

Traffic Figure 2

S|C|P

APPENDIX 8

Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.0.0.4211 []
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Filename: Arcady Newland Av_Newton Av Rbout.j9
Path: Z:\Job Library\2014\14923 - Carrs Lane, Cudworth, Barnsley\Traffic Data\Models\Newland Av_Newton Av Rbout
Report generation date: 05/10/2015 10:29:23

»2015, AM
»2015, PM
»2020 Base, AM
»2020 Base, PM
»2020 Base plus dev, AM
»2020 Base plus dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2015							
Arm 1	0.1	4.26	0.07	A	0.1	4.47	0.10	A
Arm 2	0.1	3.92	0.13	A	0.1	3.90	0.12	A
Arm 3	0.2	4.52	0.13	A	0.2	4.84	0.18	A
	2020 Base							
Arm 1	0.1	4.31	0.08	A	0.1	4.54	0.11	A
Arm 2	0.2	3.98	0.14	A	0.1	3.96	0.13	A
Arm 3	0.2	4.60	0.14	A	0.2	4.97	0.20	A
	2020 Base plus dev							
Arm 1	0.1	4.39	0.08	A	0.1	4.76	0.13	A
Arm 2	0.3	4.72	0.24	A	0.2	4.18	0.17	A
Arm 3	0.2	4.77	0.17	A	0.4	5.40	0.26	A

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

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	15/07/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	SCP"Tony Harrigan
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	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

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

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2015	AM	ONE HOUR	08:00	09:30	15
2015	PM	ONE HOUR	17:00	18:30	15
2020 Base	AM	ONE HOUR	08:00	09:30	15
2020 Base	PM	ONE HOUR	17:00	18:30	15
2020 Base plus dev	AM	ONE HOUR	08:00	09:30	15
2020 Base plus dev	PM	ONE HOUR	17:00	18:30	15

2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout	4.22	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	untitled	
2	untitled	
3	untitled	

Capacity Options

Arm	Minimum capacity (PCU/hr)	Maximum capacity (PCU/hr)
1	0.00	99999.00
2	0.00	99999.00
3	0.00	99999.00

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.15	3.15	0.0	21.0	22.0	33.0	
2	4.00	4.00	0.0	7.0	22.0	38.0	
3	3.60	3.60	0.0	8.7	22.0	52.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.506	946.737
2	0.496	1068.288
3	0.463	938.247

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D1	2015	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	60.00	100.000
2		✓	121.00	100.000
3		✓	109.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0.000	29.000	31.000
	2	44.000	0.000	77.000
	3	45.000	64.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.07	4.26	0.1	A
2	0.13	3.92	0.1	A
3	0.13	4.52	0.2	A

Main Results for each time segment

Main results: (08:00-08:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	45.17	47.95	922.49	0.049	44.97	0.1	4.101	A
2	91.10	23.23	1056.76	0.086	90.72	0.1	3.727	A
3	82.06	32.99	922.99	0.089	81.67	0.1	4.277	A

Main results: (08:15-08:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	53.94	57.48	917.67	0.059	53.90	0.1	4.167	A
2	108.78	27.85	1054.47	0.103	108.69	0.1	3.805	A
3	97.99	39.53	919.96	0.107	97.90	0.1	4.379	A

Main results: (08:30-08:45)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	66.06	70.39	911.15	0.073	66.00	0.1	4.259	A
2	133.22	34.10	1051.37	0.127	133.10	0.1	3.920	A
3	120.01	48.40	915.86	0.131	119.89	0.1	4.523	A

Main results: (08:45-09:00)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	66.06	70.46	911.11	0.073	66.06	0.1	4.259	A
2	133.22	34.13	1051.35	0.127	133.22	0.1	3.920	A
3	120.01	48.44	915.84	0.131	120.01	0.2	4.523	A

Main results: (09:00-09:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	53.94	57.61	917.61	0.059	54.00	0.1	4.168	A
2	108.78	27.90	1054.45	0.103	108.89	0.1	3.809	A
3	97.99	39.60	919.93	0.107	98.11	0.1	4.382	A

Main results: (09:15-09:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	45.17	48.23	922.35	0.049	45.22	0.1	4.104	A
2	91.10	23.36	1056.70	0.086	91.18	0.1	3.730	A
3	82.06	33.16	922.91	0.089	82.15	0.1	4.283	A

2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout	4.45	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Capacity Options

[same as above]

Roundabout Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D2	2015	PM	ONE HOUR	17:00	18:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	84.00	100.000
2		✓	110.00	100.000
3		✓	149.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0.000	39.000	45.000
	2	61.000	0.000	49.000
	3	61.000	88.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.10	4.47	0.1	A
2	0.12	3.90	0.1	A
3	0.18	4.84	0.2	A

Main Results for each time segment

Main results: (17:00-17:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	63.24	65.92	913.41	0.069	62.94	0.1	4.232	A
2	82.81	33.72	1051.56	0.079	82.47	0.1	3.715	A
3	112.18	45.74	917.09	0.122	111.62	0.1	4.466	A

Main results: (17:15-17:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	75.51	79.03	906.78	0.083	75.45	0.1	4.330	A
2	98.89	40.42	1048.24	0.094	98.81	0.1	3.791	A
3	133.95	54.80	912.90	0.147	133.82	0.2	4.621	A

Main results: (17:30-17:45)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	92.49	96.78	897.81	0.103	92.39	0.1	4.469	A
2	121.11	49.49	1043.73	0.116	121.00	0.1	3.901	A
3	164.05	67.10	907.20	0.181	163.86	0.2	4.841	A

Main results: (17:45-18:00)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	92.49	96.89	897.75	0.103	92.48	0.1	4.470	A
2	121.11	49.55	1043.71	0.116	121.11	0.1	3.901	A
3	164.05	67.16	907.18	0.181	164.05	0.2	4.843	A

Main results: (18:00-18:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	75.51	79.22	906.68	0.083	75.61	0.1	4.331	A
2	98.89	40.50	1048.19	0.094	98.99	0.1	3.792	A
3	133.95	54.90	912.85	0.147	134.14	0.2	4.623	A

Main results: (18:15-18:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	63.24	66.33	913.20	0.069	63.31	0.1	4.235	A
2	82.81	33.91	1051.46	0.079	82.89	0.1	3.719	A
3	112.18	45.97	916.98	0.122	112.31	0.1	4.475	A

2020 Base, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout	4.28	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Capacity Options

[same as above]

Roundabout Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D3	2020 Base	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	66.00	100.000
2		✓	132.00	100.000
3		✓	119.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0.000	32.000	34.000
	2	48.000	0.000	84.000
	3	49.000	70.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.08	4.31	0.1	A
2	0.14	3.98	0.2	A
3	0.14	4.60	0.2	A

Main Results for each time segment

Main results: (08:00-08:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	49.69	52.45	920.22	0.054	49.46	0.1	4.133	A
2	99.38	25.48	1055.65	0.094	98.96	0.1	3.760	A
3	89.59	35.99	921.60	0.097	89.16	0.1	4.323	A

Main results: (08:15-08:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	59.33	62.87	914.95	0.065	59.28	0.1	4.207	A
2	118.67	30.54	1053.14	0.113	118.57	0.1	3.852	A
3	106.98	43.12	918.30	0.117	106.88	0.1	4.436	A

Main results: (08:30-08:45)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	72.67	76.99	907.81	0.080	72.60	0.1	4.310	A
2	145.33	37.40	1049.73	0.138	145.20	0.2	3.980	A
3	131.02	52.80	913.82	0.143	130.88	0.2	4.598	A

Main results: (08:45-09:00)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	72.67	77.07	907.77	0.080	72.67	0.1	4.310	A
2	145.33	37.43	1049.72	0.138	145.33	0.2	3.980	A
3	131.02	52.85	913.80	0.143	131.02	0.2	4.598	A

Main results: (09:00-09:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	59.33	63.01	914.88	0.065	59.40	0.1	4.208	A
2	118.67	30.60	1053.11	0.113	118.80	0.1	3.853	A
3	106.98	43.20	918.26	0.117	107.12	0.1	4.438	A

Main results: (09:15-09:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	49.69	52.76	920.06	0.054	49.74	0.1	4.136	A
2	99.38	25.62	1055.58	0.094	99.47	0.1	3.764	A
3	89.59	36.17	921.51	0.097	89.69	0.1	4.328	A

2020 Base, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout	4.54	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Capacity Options

[same as above]

Roundabout Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D4	2020 Base	PM	ONE HOUR	17:00	18:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	92.00	100.000
2		✓	121.00	100.000
3		✓	163.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0.000	43.000	49.000
	2	67.000	0.000	54.000
	3	67.000	96.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.11	4.54	0.1	A
2	0.13	3.96	0.1	A
3	0.20	4.97	0.2	A

Main Results for each time segment

Main results: (17:00-17:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	69.26	71.91	910.38	0.076	68.93	0.1	4.278	A
2	91.10	36.72	1050.07	0.087	90.72	0.1	3.750	A
3	122.71	50.23	915.01	0.134	122.10	0.2	4.540	A

Main results: (17:15-17:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	82.71	86.22	903.15	0.092	82.63	0.1	4.387	A
2	108.78	44.01	1046.45	0.104	108.69	0.1	3.838	A
3	146.53	60.19	910.40	0.161	146.39	0.2	4.710	A

Main results: (17:30-17:45)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	101.29	105.57	893.36	0.113	101.19	0.1	4.544	A
2	133.22	53.89	1041.55	0.128	133.10	0.1	3.963	A
3	179.47	73.70	904.15	0.198	179.25	0.2	4.965	A

Main results: (17:45-18:00)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	101.29	105.70	893.30	0.113	101.29	0.1	4.545	A
2	133.22	53.95	1041.52	0.128	133.22	0.1	3.963	A
3	179.47	73.77	904.12	0.199	179.46	0.2	4.967	A

Main results: (18:00-18:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	82.71	86.43	903.04	0.092	82.81	0.1	4.389	A
2	108.78	44.11	1046.41	0.104	108.90	0.1	3.841	A
3	146.53	60.30	910.35	0.161	146.75	0.2	4.715	A

Main results: (18:15-18:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	69.26	72.36	910.15	0.076	69.34	0.1	4.281	A
2	91.10	36.93	1049.97	0.087	91.18	0.1	3.757	A
3	122.71	50.49	914.89	0.134	122.86	0.2	4.545	A

2020 Base plus dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout	4.68	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Capacity Options

[same as above]

Roundabout Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D5	2020 Base plus dev	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	69.00	100.000
2		✓	215.00	100.000
3		✓	140.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0.000	35.000	34.000
	2	57.000	0.000	158.000
	3	49.000	0.000	91.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.08	4.39	0.1	A
2	0.24	4.72	0.3	A
3	0.17	4.77	0.2	A

Main Results for each time segment

Main results: (08:00-08:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	51.95	68.17	912.27	0.057	51.71	0.1	4.182	A
2	161.86	93.65	1021.82	0.158	161.11	0.2	4.179	A
3	105.40	42.71	918.49	0.115	104.88	0.1	4.422	A

Main results: (08:15-08:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	62.03	81.73	905.41	0.069	61.98	0.1	4.268	A
2	193.28	112.27	1012.59	0.191	193.09	0.2	4.391	A
3	125.86	51.19	914.56	0.138	125.74	0.2	4.564	A

Main results: (08:30-08:45)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	75.97	100.08	896.14	0.085	75.89	0.1	4.388	A
2	236.72	137.48	1000.08	0.237	236.43	0.3	4.714	A
3	154.14	62.68	909.25	0.170	153.97	0.2	4.765	A

Main results: (08:45-09:00)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	75.97	100.19	896.08	0.085	75.97	0.1	4.389	A
2	236.72	137.63	1000.01	0.237	236.72	0.3	4.716	A
3	154.14	62.76	909.21	0.170	154.14	0.2	4.767	A

Main results: (09:00-09:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	62.03	81.92	905.32	0.069	62.10	0.1	4.271	A
2	193.28	112.52	1012.46	0.191	193.57	0.2	4.399	A
3	125.86	51.32	914.51	0.138	126.03	0.2	4.566	A

Main results: (09:15-09:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	51.95	68.59	912.06	0.057	52.00	0.1	4.187	A
2	161.86	94.21	1021.55	0.158	162.06	0.2	4.189	A
3	105.40	42.96	918.37	0.115	105.52	0.1	4.429	A

2020 Base plus dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout	4.85	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Capacity Options

[same as above]

Roundabout Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D6	2020 Base plus dev	PM	ONE HOUR	17:00	18:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	100.00	100.000
2		✓	164.00	100.000
3		✓	213.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0.000	51.000	49.000
	2	72.000	0.000	92.000
	3	67.000	146.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.13	4.76	0.1	A
2	0.17	4.18	0.2	A
3	0.26	5.40	0.4	A

Main Results for each time segment

Main results: (17:00-17:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	75.29	109.34	891.46	0.084	74.92	0.1	4.407	A
2	123.47	36.71	1050.08	0.118	122.94	0.1	3.881	A
3	160.36	53.97	913.28	0.176	159.51	0.2	4.771	A

Main results: (17:15-17:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	89.90	131.10	880.45	0.102	89.81	0.1	4.553	A
2	147.43	44.01	1046.45	0.141	147.31	0.2	4.004	A
3	191.48	64.67	908.33	0.211	191.27	0.3	5.019	A

Main results: (17:30-17:45)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	110.10	160.52	865.58	0.127	109.97	0.1	4.764	A
2	180.57	53.89	1041.55	0.173	180.39	0.2	4.179	A
3	234.52	79.19	901.61	0.260	234.18	0.3	5.391	A

Main results: (17:45-18:00)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	110.10	160.75	865.47	0.127	110.10	0.1	4.765	A
2	180.57	53.95	1041.52	0.173	180.57	0.2	4.181	A
3	234.52	79.27	901.57	0.260	234.51	0.4	5.396	A

Main results: (18:00-18:15)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	89.90	131.47	880.26	0.102	90.02	0.1	4.555	A
2	147.43	44.11	1046.40	0.141	147.61	0.2	4.007	A
3	191.48	64.80	908.27	0.211	191.81	0.3	5.028	A

Main results: (18:15-18:30)

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	75.29	110.07	891.09	0.084	75.37	0.1	4.415	A
2	123.47	36.93	1049.97	0.118	123.59	0.1	3.887	A
3	160.36	54.26	913.15	0.176	160.58	0.2	4.784	A

S|C|P

APPENDIX 9

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []
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Filename: Picady Carr lane_Whitecross Lane priority.j9
Path: Z:\Job Library\2014\14923 - Carrs Lane, Cudworth, Barnsley\Traffic Data\Models\JUnction Models and PDF outputs
Report generation date: 05/10/2015 10:56:09

»2015, AM
»2015, PM
»2020 Base, AM
»2020 Base, PM
»2020 Base plus Dev, AM
»2020 Base plus dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2015							
Stream B-C	0.1	6.24	0.08	A	0.1	6.55	0.11	A
Stream B-A	0.0	8.50	0.04	A	0.1	8.92	0.08	A
Stream C-AB	0.1	6.50	0.09	A	0.1	6.69	0.11	A
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base							
Stream B-C	0.1	6.34	0.09	A	0.1	6.69	0.12	A
Stream B-A	0.0	8.66	0.04	A	0.1	9.16	0.09	A
Stream C-AB	0.1	6.57	0.09	A	0.1	6.78	0.12	A
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base plus Dev							
Stream B-C	0.1	6.67	0.08	A				
Stream B-A	0.2	8.99	0.14	A				
Stream C-AB	0.1	6.64	0.10	A				
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base plus dev							
Stream B-C					0.2	6.78	0.13	A
Stream B-A					0.1	9.02	0.12	A
Stream C-AB					0.2	6.95	0.14	A
Stream C-A								
Stream A-B								
Stream A-C								

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	Carr lane / Whitecross lane
Location	Cudworth
Site number	
Date	16/07/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	14923
Enumerator	SCP"Tony Harrigan
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	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

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

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2015	AM	ONE HOUR	08:00	09:30	15
2015	PM	ONE HOUR	16:45	18:15	15
2020 Base	AM	ONE HOUR	08:00	09:30	15
2020 Base	PM	ONE HOUR	16:45	18:15	15
2020 Base plus Dev	AM	ONE HOUR	08:00	09:30	15
2020 Base plus dev	PM	ONE HOUR	16:45	18:15	15

2015, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - 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.

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.75	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	untitled		Major
B	untitled		Minor
C	untitled		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.30			99.0	✓	1.00

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	One lane plus flare	7.70	3.60	3.00	3.00	3.00	✓	1.00	130	17

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	511.859	0.088	0.222	0.140	0.318
1	B-C	667.679	0.097	0.244	-	-
1	C-B	631.295	0.231	0.231	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D1	2015	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	155.00	100.000
B		✓	59.00	100.000
C		✓	190.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	31.000	124.000
	B	15.000	0.000	44.000
	C	144.000	46.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.08	6.24	0.1	A
B-A	0.04	8.50	0.0	A
C-AB	0.09	6.50	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	33.13	638.70	0.052	32.91	0.1	5.941	A
B-A	11.29	462.83	0.024	11.19	0.0	7.969	A
C-AB	34.99	610.58	0.057	34.74	0.1	6.248	A
C-A	108.05			108.05			
A-B	23.34			23.34			
A-C	93.35			93.35			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	39.56	632.97	0.062	39.51	0.1	6.065	A
B-A	13.48	453.21	0.030	13.46	0.0	8.186	A
C-AB	41.97	608.08	0.069	41.91	0.1	6.358	A
C-A	128.84			128.84			
A-B	27.87			27.87			
A-C	111.47			111.47			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	48.44	625.04	0.078	48.38	0.1	6.242	A
B-A	16.52	439.96	0.038	16.48	0.0	8.501	A
C-AB	51.81	605.48	0.086	51.73	0.1	6.501	A
C-A	157.39			157.39			
A-B	34.13			34.13			
A-C	136.53			136.53			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	48.44	625.02	0.078	48.44	0.1	6.243	A
B-A	16.52	439.94	0.038	16.51	0.0	8.501	A
C-AB	51.81	605.48	0.086	51.81	0.1	6.503	A
C-A	157.39			157.39			
A-B	34.13			34.13			
A-C	136.53			136.53			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	39.56	632.95	0.062	39.62	0.1	6.069	A
B-A	13.48	453.16	0.030	13.52	0.0	8.190	A
C-AB	41.97	608.08	0.069	42.05	0.1	6.362	A
C-A	128.84			128.84			
A-B	27.87			27.87			
A-C	111.47			111.47			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	33.13	638.66	0.052	33.17	0.1	5.947	A
B-A	11.29	462.74	0.024	11.32	0.0	7.976	A
C-AB	34.99	610.58	0.057	35.04	0.1	6.257	A
C-A	108.05			108.05			
A-B	23.34			23.34			
A-C	93.35			93.35			

2015, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - 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.

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.53	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D2	2015	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	163.00	100.000
B		✓	95.00	100.000
C		✓	175.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	46.000	117.000
	B	33.000	0.000	62.000
	C	117.000	58.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.11	6.55	0.1	A
B-A	0.08	8.92	0.1	A
C-AB	0.11	6.69	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	46.68	634.08	0.074	46.36	0.1	6.123	A
B-A	24.84	462.86	0.054	24.62	0.1	8.210	A
C-AB	44.13	609.36	0.072	43.81	0.1	6.363	A
C-A	87.62			87.62			
A-B	34.63			34.63			
A-C	88.08			88.08			

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	55.74	627.26	0.089	55.67	0.1	6.298	A
B-A	29.67	453.15	0.065	29.61	0.1	8.498	A
C-AB	52.94	606.66	0.087	52.87	0.1	6.500	A
C-A	104.38			104.38			
A-B	41.35			41.35			
A-C	105.18			105.18			

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	68.26	617.75	0.111	68.16	0.1	6.548	A
B-A	36.33	439.75	0.083	36.25	0.1	8.919	A
C-AB	65.37	603.83	0.108	65.26	0.1	6.684	A
C-A	127.31			127.31			
A-B	50.65			50.65			
A-C	128.82			128.82			

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	68.26	617.72	0.111	68.26	0.1	6.551	A
B-A	36.33	439.71	0.083	36.33	0.1	8.924	A
C-AB	65.37	603.83	0.108	65.37	0.1	6.687	A
C-A	127.31			127.31			
A-B	50.65			50.65			
A-C	128.82			128.82			

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	55.74	627.21	0.089	55.84	0.1	6.301	A
B-A	29.67	453.09	0.065	29.74	0.1	8.504	A
C-AB	52.94	606.66	0.087	53.05	0.1	6.503	A
C-A	104.38			104.38			
A-B	41.35			41.35			
A-C	105.18			105.18			

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	46.68	633.98	0.074	46.75	0.1	6.130	A
B-A	24.84	462.73	0.054	24.90	0.1	8.223	A
C-AB	44.13	609.36	0.072	44.20	0.1	6.372	A
C-A	87.62			87.62			
A-B	34.63			34.63			
A-C	88.08			88.08			

2020 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - 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.

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.76	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D3	2020 Base	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	170.00	100.000
B		✓	64.00	100.000
C		✓	207.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	34.000	136.000
	B	16.000	0.000	48.000
	C	157.000	50.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.09	6.34	0.1	A
B-A	0.04	8.66	0.0	A
C-AB	0.09	6.57	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	36.14	635.99	0.057	35.90	0.1	5.994	A
B-A	12.05	458.28	0.026	11.94	0.0	8.064	A
C-AB	38.11	609.15	0.063	37.84	0.1	6.298	A
C-A	117.74			117.74			
A-B	25.60			25.60			
A-C	102.39			102.39			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	43.15	629.71	0.069	43.10	0.1	6.136	A
B-A	14.38	447.76	0.032	14.36	0.0	8.306	A
C-AB	45.75	606.67	0.075	45.69	0.1	6.417	A
C-A	140.34			140.34			
A-B	30.57			30.57			
A-C	122.26			122.26			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	52.85	621.02	0.085	52.77	0.1	6.335	A
B-A	17.62	433.27	0.041	17.58	0.0	8.660	A
C-AB	56.57	604.28	0.094	56.47	0.1	6.571	A
C-A	171.35			171.35			
A-B	37.43			37.43			
A-C	149.74			149.74			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	52.85	621.00	0.085	52.85	0.1	6.335	A
B-A	17.62	433.24	0.041	17.62	0.0	8.661	A
C-AB	56.57	604.28	0.094	56.56	0.1	6.572	A
C-A	171.35			171.35			
A-B	37.43			37.43			
A-C	149.74			149.74			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	43.15	629.69	0.069	43.23	0.1	6.138	A
B-A	14.38	447.71	0.032	14.42	0.0	8.310	A
C-AB	45.75	606.67	0.075	45.84	0.1	6.419	A
C-A	140.34			140.34			
A-B	30.57			30.57			
A-C	122.26			122.26			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	36.14	635.94	0.057	36.19	0.1	6.002	A
B-A	12.05	458.18	0.026	12.07	0.0	8.070	A
C-AB	38.11	609.15	0.063	38.17	0.1	6.304	A
C-A	117.74			117.74			
A-B	25.60			25.60			
A-C	102.39			102.39			