

Junctions 9
PICADY 9 - Priority Intersection Module
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**Filename:** Junction B - NAR\_MG2 (7) Residential.j9

**Path:** K:\data\A097000-A097999\A097705 - NAR, St Athan\A097705 Transport\Analysis\Picady\Junction B - NAR\_MG2 (7) Residential

**Report generation date:** 01/12/2016 10:30:13

- »2019, AM
- »2019, PM
- »2029, AM
- »2029, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2019								
Stream B-AC	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-AB	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-A								
Stream A-B								
Stream A-C								
2029								
Stream B-AC	0.3	8.32	0.25	A	0.3	13.67	0.24	B
Stream C-AB	0.1	5.67	0.06	A	0.3	11.16	0.24	B
Stream C-A								
Stream A-B								
Stream A-C								

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

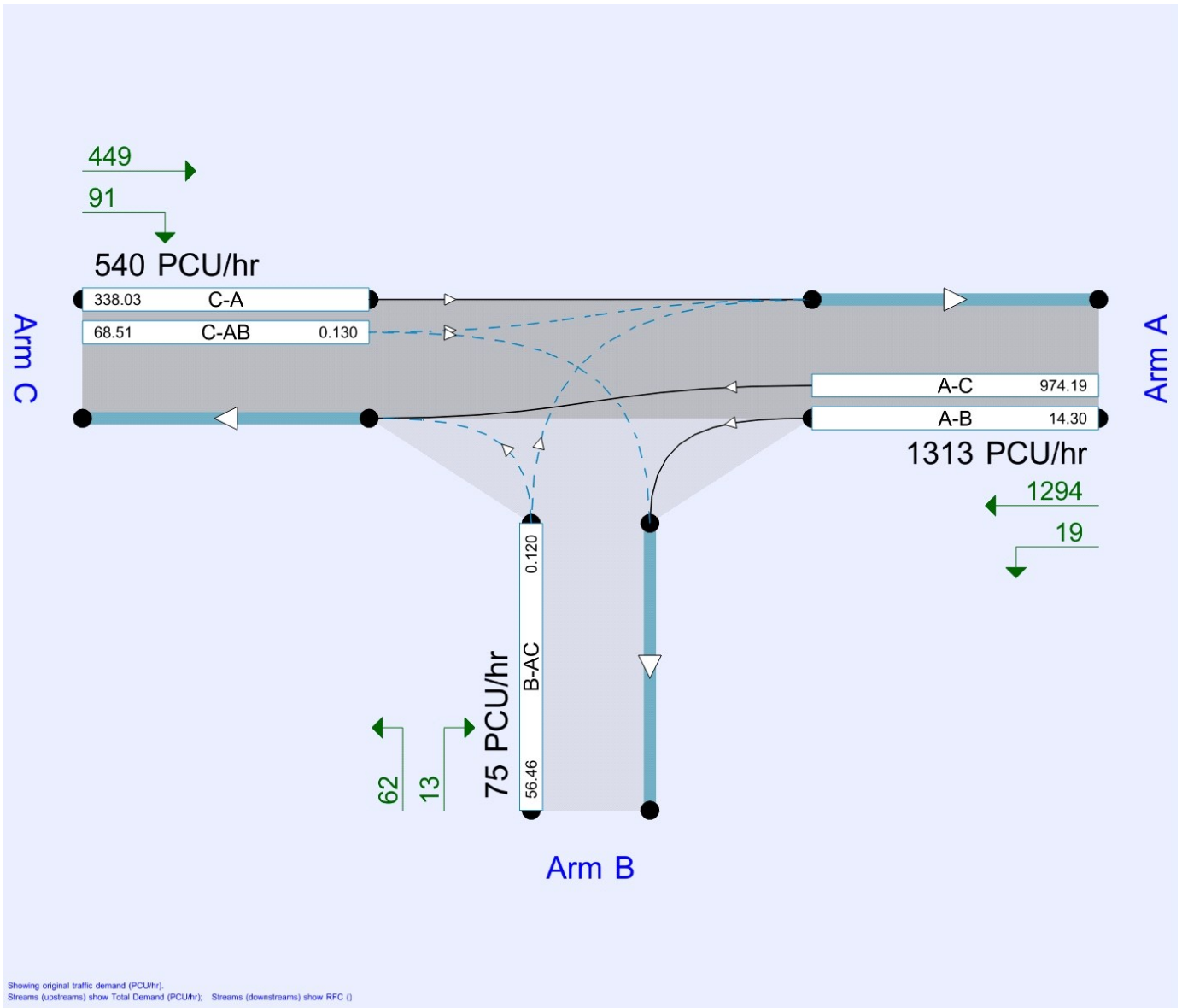
## File summary

### File Description

<b>Title</b>	Junction 3
<b>Location</b>	NAR / MG2 (7) Residential
<b>Site number</b>	
<b>Date</b>	15/08/2016
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	Welsh Government
<b>Jobnumber</b>	A097705
<b>Enumerator</b>	WYG"ben.jones2
<b>Description</b>	

## 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



The junction diagram reflects the last run of Junctions.

### Analysis Options

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

### Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2019	AM	ONE HOUR	08:00	09:30	15
2019	PM	ONE HOUR	17:00	18:30	15
2029	AM	ONE HOUR	08:00	09:30	15
2029	PM	ONE HOUR	17:00	18:30	15

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	Junction 3	T-Junction	Two-way	0.00	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	NAR (E)		Major
B	MG2 (7) Residential		Minor
C	NAR (W)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	10.80		✓	3.50	157.0	✓	10.00

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

## Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.18	66	75

## 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	599.747	0.086	0.218	0.137	0.312
1	B-C	750.440	0.091	0.230	-	-
1	C-B	758.954	0.233	0.233	-	-

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	2019	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		✓	25.00	100.000
B		✓	0.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	25.000
	B	0.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

	To			
	A	B	C	
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.00	0.00	0.0	A
C-AB	0.00	0.00	0.0	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-AC	0.00	660.83	0.000	0.00	0.0	0.000	A
C-AB	0.00	1569.52	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	18.82			18.82			

#### 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-AC	0.00	659.70	0.000	0.00	0.0	0.000	A
C-AB	0.00	1567.75	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	22.47			22.47			

#### 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-AC	0.00	658.12	0.000	0.00	0.0	0.000	A
C-AB	0.00	1565.30	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	27.53			27.53			

**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-AC	0.00	658.12	0.000	0.00	0.0	0.000	A
C-AB	0.00	1565.30	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	27.53			27.53			

**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-AC	0.00	659.70	0.000	0.00	0.0	0.000	A
C-AB	0.00	1567.75	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	22.47			22.47			

**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-AC	0.00	660.83	0.000	0.00	0.0	0.000	A
C-AB	0.00	1569.52	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	18.82			18.82			

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	Junction 3	T-Junction	Two-way	0.00	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	2019	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 (%)
A		✓	400.00	100.000
B		✓	0.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	400.000
	B	0.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.00	0.00	0.0	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	0.00	597.02	0.000	0.00	0.0	0.000	A
C-AB	0.00	1432.90	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	301.14			301.14			

### 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-AC	0.00	583.47	0.000	0.00	0.0	0.000	A
C-AB	0.00	1404.61	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	359.59			359.59			

### 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-AC	0.00	564.73	0.000	0.00	0.0	0.000	A
C-AB	0.00	1365.50	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	440.41			440.41			

### 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-AC	0.00	564.73	0.000	0.00	0.0	0.000	A
C-AB	0.00	1365.50	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	440.41			440.41			

### 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-AC	0.00	583.47	0.000	0.00	0.0	0.000	A
C-AB	0.00	1404.61	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	359.59			359.59			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	0.00	597.02	0.000	0.00	0.0	0.000	A
C-AB	0.00	1432.90	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	301.14			301.14			



# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	Junction 3	T-Junction	Two-way	0.85	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	2029	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		✓	323.00	100.000
B		✓	132.00	100.000
C		✓	1092.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	8.000	315.000
	B	23.000	0.000	109.000
	C	1054.000	38.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.25	8.32	0.3	A
C-A-B	0.06	5.67	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-AC	99.38	627.63	0.158	98.63	0.2	6.795	A
C-AB	28.61	702.38	0.041	28.44	0.0	5.340	A
C-A	793.51			793.51			
A-B	6.02			6.02			
A-C	237.15			237.15			

### 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-AC	118.67	607.63	0.195	118.45	0.2	7.355	A
C-AB	34.16	691.40	0.049	34.12	0.1	5.476	A
C-A	947.52			947.52			
A-B	7.19			7.19			
A-C	283.18			283.18			

### 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-AC	145.33	578.14	0.251	144.97	0.3	8.304	A
C-AB	41.84	676.22	0.062	41.78	0.1	5.674	A
C-A	1160.48			1160.48			
A-B	8.81			8.81			
A-C	346.82			346.82			

### 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-AC	145.33	578.13	0.251	145.33	0.3	8.317	A
C-AB	41.84	676.22	0.062	41.84	0.1	5.674	A
C-A	1160.48			1160.48			
A-B	8.81			8.81			
A-C	346.82			346.82			

### 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-AC	118.67	607.61	0.195	119.02	0.2	7.375	A
C-AB	34.16	691.40	0.049	34.21	0.1	5.477	A
C-A	947.52			947.52			
A-B	7.19			7.19			
A-C	283.18			283.18			

### 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-AC	99.38	627.60	0.158	99.60	0.2	6.820	A
C-AB	28.61	702.38	0.041	28.65	0.0	5.345	A
C-A	793.51			793.51			
A-B	6.02			6.02			
A-C	237.15			237.15			



# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	Junction 3	T-Junction	Two-way	1.06	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)
D4	2029	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 (%)
A		✓	1313.00	100.000
B		✓	75.00	100.000
C		✓	540.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	19.000	1294.000
	B	13.000	0.000	62.000
	C	449.000	91.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.24	13.67	0.3	B
C-AB	0.24	11.16	0.3	B
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	56.46	471.74	0.120	55.93	0.1	8.646	A
C-AB	68.51	528.98	0.130	67.92	0.1	7.799	A
C-A	338.03			338.03			
A-B	14.30			14.30			
A-C	974.19			974.19			

### 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-AC	67.42	420.74	0.160	67.21	0.2	10.176	B
C-AB	81.81	484.34	0.169	81.59	0.2	8.934	A
C-A	403.64			403.64			
A-B	17.08			17.08			
A-C	1163.28			1163.28			

### 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-AC	82.58	346.00	0.239	82.10	0.3	13.617	B
C-AB	100.19	422.62	0.237	99.77	0.3	11.136	B
C-A	494.36			494.36			
A-B	20.92			20.92			
A-C	1424.72			1424.72			

### 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-AC	82.58	345.92	0.239	82.56	0.3	13.669	B
C-AB	100.19	422.62	0.237	100.18	0.3	11.164	B
C-A	494.36			494.36			
A-B	20.92			20.92			
A-C	1424.72			1424.72			

### 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-AC	67.42	420.65	0.160	67.89	0.2	10.220	B
C-AB	81.81	484.34	0.169	82.22	0.2	8.962	A
C-A	403.64			403.64			
A-B	17.08			17.08			
A-C	1163.28			1163.28			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	56.46	471.64	0.120	56.69	0.1	8.679	A
C-AB	68.51	528.98	0.130	68.73	0.2	7.825	A
C-A	338.03			338.03			
A-B	14.30			14.30			
A-C	974.19			974.19			

Junctions 9
PICADY 9 - Priority Intersection Module
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**Filename:** Junction C - NAR\_Llanmaes.j9

**Path:** K:\data\A097000-A097999\A097705 - NAR, St Athan\A097705 Transport\Analysis\Picady\Junction C - NAR\_Llanmaes

**Report generation date:** 01/12/2016 10:35:54

- »2019, AM
- »2019, PM
- »2029, AM
- »2029, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2019								
Stream B-AC	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-AB	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-A								
Stream A-B								
Stream A-C								
2029								
Stream B-AC	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-AB	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-A								
Stream A-B								
Stream A-C								

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

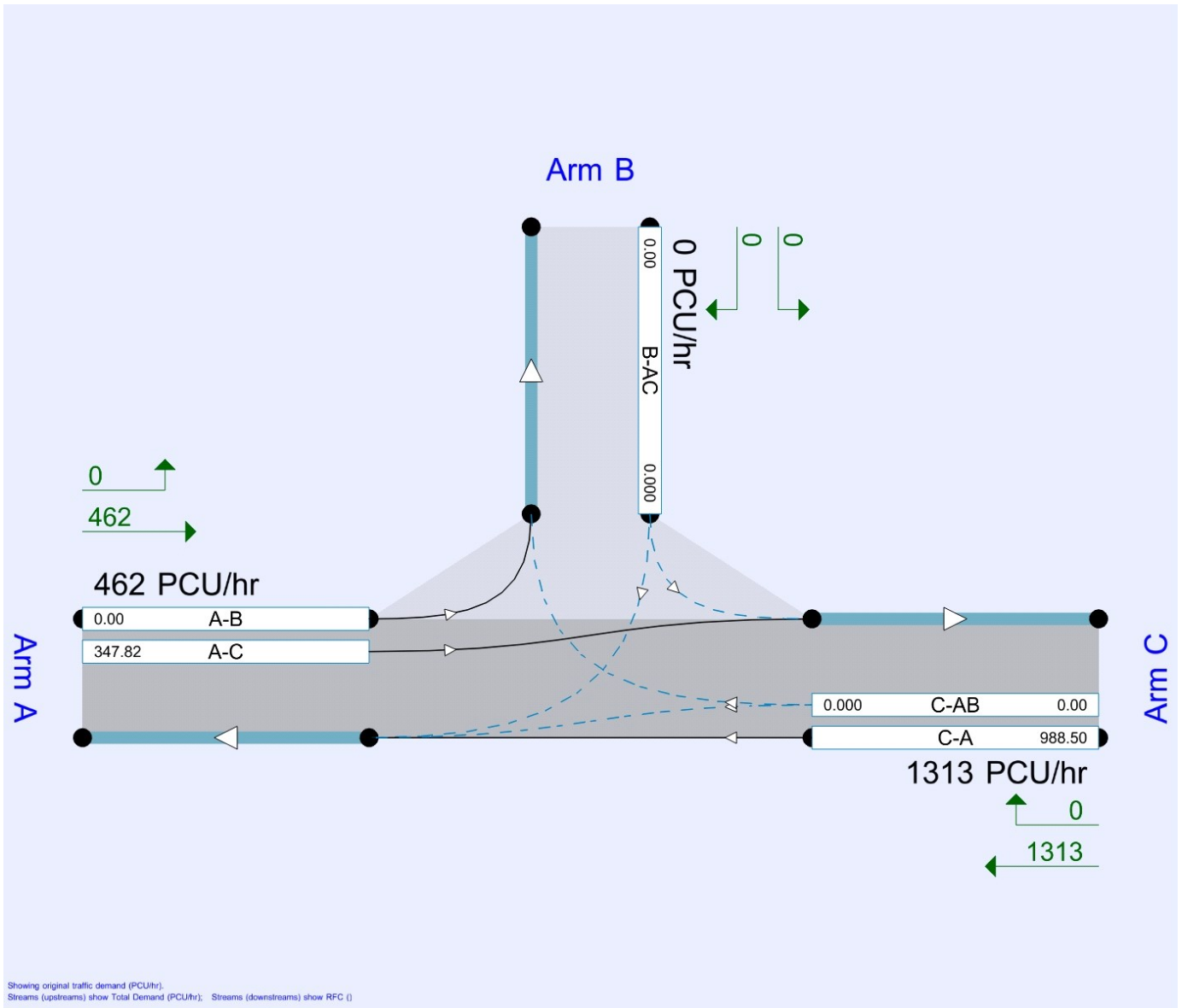
## File summary

### File Description

<b>Title</b>	Junction 4
<b>Location</b>	NAR / Llanmaes
<b>Site number</b>	
<b>Date</b>	15/08/2016
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	Welsh Government
<b>Jobnumber</b>	A097705
<b>Enumerator</b>	WYG"ben.jones2
<b>Description</b>	

## 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



The junction diagram reflects the last run of Junctions.

### Analysis Options

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

### Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2019	AM	ONE HOUR	08:00	09:30	15
2019	PM	ONE HOUR	17:00	18:30	15
2029	AM	ONE HOUR	08:00	09:30	15
2029	PM	ONE HOUR	17:00	18:30	15

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.00	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	NAR (W)		Major
B	Llanmaes		Minor
C	NAR (E)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	10.80		✓	3.50	250.0	✓	6.00

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

## Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.08	48	55

## 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	576.730	0.083	0.210	0.132	0.300
1	B-C	729.769	0.089	0.224	-	-
1	C-B	820.431	0.252	0.252	-	-

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	2019	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		✓	25.00	100.000
B		✓	0.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	25.000
	B	0.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
From		A	B	C
	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.00	0.00	0.0	A
C-AB	0.00	0.00	0.0	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-AC	0.00	638.62	0.000	0.00	0.0	0.000	A
C-AB	0.00	1696.65	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	18.82			18.82			

#### 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-AC	0.00	637.52	0.000	0.00	0.0	0.000	A
C-AB	0.00	1694.74	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	22.47			22.47			

#### 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-AC	0.00	636.00	0.000	0.00	0.0	0.000	A
C-AB	0.00	1692.10	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	27.53			27.53			



**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-AC	0.00	636.00	0.000	0.00	0.0	0.000	A
C-AB	0.00	1692.10	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	27.53			27.53			

**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-AC	0.00	637.52	0.000	0.00	0.0	0.000	A
C-AB	0.00	1694.74	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	22.47			22.47			

**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-AC	0.00	638.62	0.000	0.00	0.0	0.000	A
C-AB	0.00	1696.65	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	18.82			18.82			

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.00	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	2019	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 (%)
A		✓	25.00	100.000
B		✓	0.00	100.000
C		✓	400.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	25.000
	B	0.000	0.000	0.000
	C	400.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.00	0.00	0.0	A
C-A-B	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	0.00	614.53	0.000	0.00	0.0	0.000	A
C-AB	0.00	1696.65	0.000	0.00	0.0	0.000	A
C-A	301.14			301.14			
A-B	0.00			0.00			
A-C	18.82			18.82			

### 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-AC	0.00	608.56	0.000	0.00	0.0	0.000	A
C-AB	0.00	1694.74	0.000	0.00	0.0	0.000	A
C-A	359.59			359.59			
A-B	0.00			0.00			
A-C	22.47			22.47			

### 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-AC	0.00	600.20	0.000	0.00	0.0	0.000	A
C-AB	0.00	1692.10	0.000	0.00	0.0	0.000	A
C-A	440.41			440.41			
A-B	0.00			0.00			
A-C	27.53			27.53			

### 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-AC	0.00	600.20	0.000	0.00	0.0	0.000	A
C-AB	0.00	1692.10	0.000	0.00	0.0	0.000	A
C-A	440.41			440.41			
A-B	0.00			0.00			
A-C	27.53			27.53			

### 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-AC	0.00	608.56	0.000	0.00	0.0	0.000	A
C-AB	0.00	1694.74	0.000	0.00	0.0	0.000	A
C-A	359.59			359.59			
A-B	0.00			0.00			
A-C	22.47			22.47			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	0.00	614.53	0.000	0.00	0.0	0.000	A
C-AB	0.00	1696.65	0.000	0.00	0.0	0.000	A
C-A	301.14			301.14			
A-B	0.00			0.00			
A-C	18.82			18.82			



# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.00	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	2029	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		✓	1077.00	100.000
B		✓	0.00	100.000
C		✓	323.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	1077.000
	B	0.000	0.000	0.000
	C	323.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.00	0.00	0.0	A
C-A-B	0.00	0.00	0.0	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-AC	0.00	444.90	0.000	0.00	0.0	0.000	A
C-AB	0.00	1282.35	0.000	0.00	0.0	0.000	A
C-A	243.17			243.17			
A-B	0.00			0.00			
A-C	810.82			810.82			

### 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-AC	0.00	405.35	0.000	0.00	0.0	0.000	A
C-AB	0.00	1200.02	0.000	0.00	0.0	0.000	A
C-A	290.37			290.37			
A-B	0.00			0.00			
A-C	968.20			968.20			

### 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-AC	0.00	349.89	0.000	0.00	0.0	0.000	A
C-AB	0.00	1086.19	0.000	0.00	0.0	0.000	A
C-A	355.63			355.63			
A-B	0.00			0.00			
A-C	1185.80			1185.80			

### 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-AC	0.00	349.89	0.000	0.00	0.0	0.000	A
C-AB	0.00	1086.19	0.000	0.00	0.0	0.000	A
C-A	355.63			355.63			
A-B	0.00			0.00			
A-C	1185.80			1185.80			

### 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-AC	0.00	405.35	0.000	0.00	0.0	0.000	A
C-AB	0.00	1200.02	0.000	0.00	0.0	0.000	A
C-A	290.37			290.37			
A-B	0.00			0.00			
A-C	968.20			968.20			

### 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-AC	0.00	444.90	0.000	0.00	0.0	0.000	A
C-AB	0.00	1282.35	0.000	0.00	0.0	0.000	A
C-A	243.17			243.17			
A-B	0.00			0.00			
A-C	810.82			810.82			





# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.00	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)
D4	2029	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 (%)
A		✓	462.00	100.000
B		✓	0.00	100.000
C		✓	1313.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A	B	C
A	0.000	0.000	462.000
B	0.000	0.000	0.000
C	1313.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

From	To		
	A	B	C
A	0	0	8
B	0	0	0
C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.00	0.00	0.0	A
C-A-B	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	0.00	474.54	0.000	0.00	0.0	0.000	A
C-AB	0.00	1524.55	0.000	0.00	0.0	0.000	A
C-A	988.50			988.50			
A-B	0.00			0.00			
A-C	347.82			347.82			

### 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-AC	0.00	437.75	0.000	0.00	0.0	0.000	A
C-AB	0.00	1489.23	0.000	0.00	0.0	0.000	A
C-A	1180.36			1180.36			
A-B	0.00			0.00			
A-C	415.33			415.33			

### 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-AC	0.00	383.89	0.000	0.00	0.0	0.000	A
C-AB	0.00	1440.40	0.000	0.00	0.0	0.000	A
C-A	1445.64			1445.64			
A-B	0.00			0.00			
A-C	508.67			508.67			

### 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-AC	0.00	383.89	0.000	0.00	0.0	0.000	A
C-AB	0.00	1440.40	0.000	0.00	0.0	0.000	A
C-A	1445.64			1445.64			
A-B	0.00			0.00			
A-C	508.67			508.67			

### 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-AC	0.00	437.75	0.000	0.00	0.0	0.000	A
C-AB	0.00	1489.23	0.000	0.00	0.0	0.000	A
C-A	1180.36			1180.36			
A-B	0.00			0.00			
A-C	415.33			415.33			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	0.00	474.54	0.000	0.00	0.0	0.000	A
C-AB	0.00	1524.55	0.000	0.00	0.0	0.000	A
C-A	988.50			988.50			
A-B	0.00			0.00			
A-C	347.82			347.82			

Junctions 9
PICADY 9 - Priority Intersection Module
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**Filename:** Junction D - NAR\_MG2 (6) Residential.j9

**Path:** K:\data\A097000-A097999\A097705 - NAR, St Athan\A097705 Transport\Analysis\Picady\Junction D - NAR\_MG2 (6) Residential

**Report generation date:** 01/12/2016 10:37:55

- »2019, AM
- »2019, PM
- »2029, AM
- »2029, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2019								
Stream B-AC	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-AB	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-A								
Stream A-B								
Stream A-C								
2029								
Stream B-AC	0.1	6.83	0.06	A	0.1	10.90	0.06	B
Stream C-AB	0.0	5.52	0.01	A	0.1	9.27	0.06	A
Stream C-A								
Stream A-B								
Stream A-C								

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

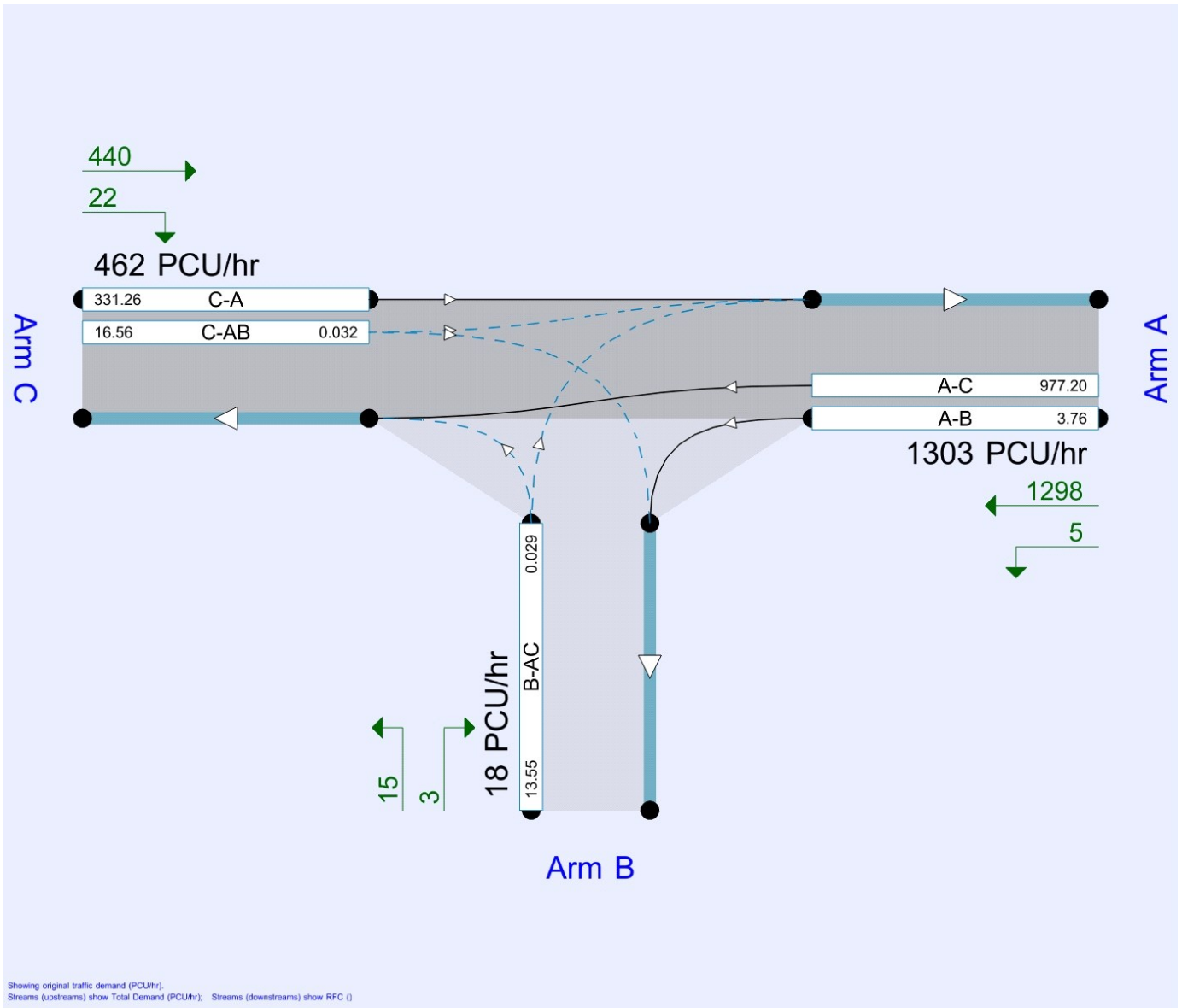
## File summary

### File Description

<b>Title</b>	Junction 5
<b>Location</b>	NAR / MG2 (6) Residential
<b>Site number</b>	
<b>Date</b>	15/08/2016
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	Welsh Government
<b>Jobnumber</b>	A097705
<b>Enumerator</b>	WYG"ben.jones2
<b>Description</b>	

## 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



The junction diagram reflects the last run of Junctions.

### Analysis Options

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

### Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2019	AM	ONE HOUR	08:00	09:30	15
2019	PM	ONE HOUR	17:00	18:30	15
2029	AM	ONE HOUR	08:00	09:30	15
2029	PM	ONE HOUR	17:00	18:30	15

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.00	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	NAR (E)		Major
B	MG2 (6) Residential		Minor
C	NAR (W)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	10.80		✓	3.50	123.0	✓	6.00

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

## Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.09	60	49



## 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	578.205	0.083	0.211	0.132	0.301
1	B-C	726.239	0.088	0.223	-	-
1	C-B	736.479	0.226	0.226	-	-

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	2019	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		✓	25.00	100.000
B		✓	0.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	25.000
	B	0.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.00	0.00	0.0	A
C-AB	0.00	0.00	0.0	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-AC	0.00	638.17	0.000	0.00	0.0	0.000	A
C-AB	0.00	1523.04	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	18.82			18.82			

#### 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-AC	0.00	637.07	0.000	0.00	0.0	0.000	A
C-AB	0.00	1521.32	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	22.47			22.47			

#### 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-AC	0.00	635.55	0.000	0.00	0.0	0.000	A
C-AB	0.00	1518.95	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	27.53			27.53			

**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-AC	0.00	635.55	0.000	0.00	0.0	0.000	A
C-AB	0.00	1518.95	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	27.53			27.53			

**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-AC	0.00	637.07	0.000	0.00	0.0	0.000	A
C-AB	0.00	1521.32	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	22.47			22.47			

**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-AC	0.00	638.17	0.000	0.00	0.0	0.000	A
C-AB	0.00	1523.04	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	18.82			18.82			

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.00	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	2019	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 (%)
A		✓	400.00	100.000
B		✓	0.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	400.000
	B	0.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.00	0.00	0.0	A
C-A-B	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	0.00	576.53	0.000	0.00	0.0	0.000	A
C-AB	0.00	1390.46	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	301.14			301.14			

### 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-AC	0.00	563.45	0.000	0.00	0.0	0.000	A
C-AB	0.00	1363.02	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	359.59			359.59			

### 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-AC	0.00	545.35	0.000	0.00	0.0	0.000	A
C-AB	0.00	1325.07	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	440.41			440.41			

### 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-AC	0.00	545.35	0.000	0.00	0.0	0.000	A
C-AB	0.00	1325.07	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	0.00			0.00			
A-C	440.41			440.41			

### 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-AC	0.00	563.45	0.000	0.00	0.0	0.000	A
C-AB	0.00	1363.02	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	0.00			0.00			
A-C	359.59			359.59			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	0.00	576.53	0.000	0.00	0.0	0.000	A
C-AB	0.00	1390.46	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	0.00			0.00			
A-C	301.14			301.14			



# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.19	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	2029	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		✓	299.00	100.000
B		✓	32.00	100.000
C		✓	1077.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	2.000	297.000
	B	6.000	0.000	26.000
	C	1068.000	9.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.06	6.83	0.1	A
C-A-B	0.01	5.52	0.0	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-AC	24.09	607.83	0.040	23.93	0.0	6.164	A
C-AB	6.78	685.66	0.010	6.74	0.0	5.302	A
C-A	804.05			804.05			
A-B	1.51			1.51			
A-C	223.60			223.60			

### 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-AC	28.77	589.31	0.049	28.73	0.1	6.421	A
C-AB	8.09	675.80	0.012	8.08	0.0	5.391	A
C-A	960.11			960.11			
A-B	1.80			1.80			
A-C	267.00			267.00			

### 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-AC	35.23	562.13	0.063	35.17	0.1	6.831	A
C-AB	9.91	662.16	0.015	9.90	0.0	5.518	A
C-A	1175.89			1175.89			
A-B	2.20			2.20			
A-C	327.00			327.00			

### 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-AC	35.23	562.13	0.063	35.23	0.1	6.831	A
C-AB	9.91	662.16	0.015	9.91	0.0	5.518	A
C-A	1175.89			1175.89			
A-B	2.20			2.20			
A-C	327.00			327.00			

### 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-AC	28.77	589.31	0.049	28.83	0.1	6.425	A
C-AB	8.09	675.80	0.012	8.10	0.0	5.391	A
C-A	960.11			960.11			
A-B	1.80			1.80			
A-C	267.00			267.00			

### 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-AC	24.09	607.82	0.040	24.13	0.0	6.169	A
C-AB	6.78	685.66	0.010	6.78	0.0	5.302	A
C-A	804.05			804.05			
A-B	1.51			1.51			
A-C	223.60			223.60			



# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.22	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)
D4	2029	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 (%)
A		✓	1303.00	100.000
B		✓	18.00	100.000
C		✓	462.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	5.000	1298.000
	B	3.000	0.000	15.000
	C	440.000	22.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	8
	B	0	0	0
	C	8	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.06	10.90	0.1	B
C-AB	0.06	9.27	0.1	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	13.55	464.06	0.029	13.43	0.0	7.987	A
C-AB	16.56	515.01	0.032	16.43	0.0	7.218	A
C-A	331.26			331.26			
A-B	3.76			3.76			
A-C	977.20			977.20			

### 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-AC	16.18	417.19	0.039	16.14	0.0	8.975	A
C-AB	19.78	472.03	0.042	19.74	0.0	7.959	A
C-A	395.55			395.55			
A-B	4.49			4.49			
A-C	1166.88			1166.88			

### 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-AC	19.82	350.07	0.057	19.74	0.1	10.895	B
C-AB	24.22	412.59	0.059	24.15	0.1	9.268	A
C-A	484.45			484.45			
A-B	5.51			5.51			
A-C	1429.12			1429.12			

### 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-AC	19.82	350.06	0.057	19.82	0.1	10.900	B
C-AB	24.22	412.59	0.059	24.22	0.1	9.269	A
C-A	484.45			484.45			
A-B	5.51			5.51			
A-C	1429.12			1429.12			

### 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-AC	16.18	417.18	0.039	16.26	0.0	8.982	A
C-AB	19.78	472.03	0.042	19.85	0.0	7.962	A
C-A	395.55			395.55			
A-B	4.49			4.49			
A-C	1166.88			1166.88			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	13.55	464.04	0.029	13.59	0.0	7.994	A
C-AB	16.56	515.01	0.032	16.61	0.0	7.225	A
C-A	331.26			331.26			
A-B	3.76			3.76			
A-C	977.20			977.20			

<b>Junctions 9</b>
<b>PICADY 9 - Priority Intersection Module</b>
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**Filename:** Junction E - NAR\_Eglwys Brewis Road.j9

**Path:** K:\data\A097000-A097999\A097705 - NAR, St Athan\A097705 Transport\Analysis\Picady\Junction E - NAR\_Eglwys Brewis Road

**Report generation date:** 01/12/2016 10:42:58

»2019, AM

»2019, PM

»2029, AM

»2029, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2019</b>								
Stream B-AC	0.3	8.13	0.20	A	0.3	10.18	0.23	B
Stream C-AB	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-A								
Stream A-B								
Stream A-C								
<b>2029</b>								
Stream B-AC	0.5	16.23	0.33	C	1.4	45.88	0.58	E
Stream C-AB	0.0	0.00	0.00	A	0.0	0.00	0.00	A
Stream C-A								
Stream A-B								
Stream A-C								

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

## File summary

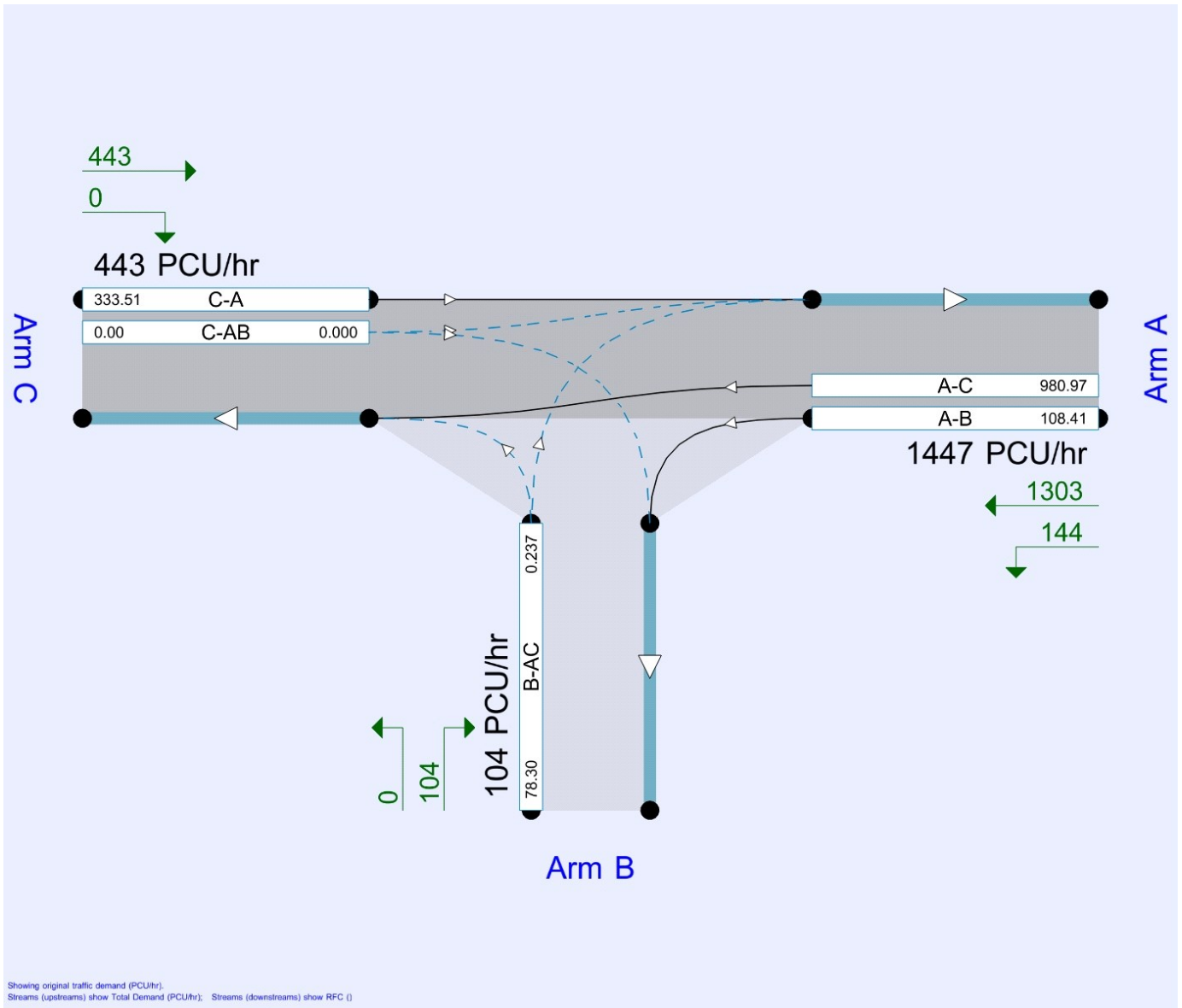
### File Description

<b>Title</b>	Junction 6
<b>Location</b>	NAR / Eglwys Brewis Road
<b>Site number</b>	
<b>Date</b>	15/08/2016
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	Welsh Government
<b>Jobnumber</b>	A097705
<b>Enumerator</b>	WYG"ben.jones2
<b>Description</b>	

## 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





The junction diagram reflects the last run of Junctions.

### Analysis Options

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

### Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2019	AM	ONE HOUR	08:00	09:30	15
2019	PM	ONE HOUR	17:00	18:30	15
2029	AM	ONE HOUR	08:00	09:30	15
2029	PM	ONE HOUR	17:00	18:30	15

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.29	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	NAR (E)		Major
B	Eglwys Brewis Road		Minor
C	NAR (W)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	10.20		✓	3.50	123.0	✓	6.00

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

## Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.15	84	97

## 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	617.422	0.092	0.232	0.146	0.332
1	B-C	763.869	0.096	0.242	-	-
1	C-B	736.479	0.233	0.233	-	-

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	2019	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		✓	132.00	100.000
B		✓	107.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	107.000	25.000
	B	107.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

From	To		
	A	B	C
A	8	8	8
B	8	8	8
C	8	8	8

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.20	8.13	0.3	A
C-AB	0.00	0.00	0.0	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-AC	80.56	602.90	0.134	79.90	0.2	7.425	A
C-AB	0.00	1426.61	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	80.56			80.56			
A-C	18.82			18.82			

#### 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-AC	96.19	600.08	0.160	96.03	0.2	7.711	A
C-AB	0.00	1417.61	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	96.19			96.19			
A-C	22.47			22.47			

#### 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-AC	117.81	596.18	0.198	117.57	0.3	8.119	A
C-AB	0.00	1405.17	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	117.81			117.81			
A-C	27.53			27.53			

**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-AC	117.81	596.18	0.198	117.80	0.3	8.127	A
C-AB	0.00	1405.17	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	117.81			117.81			
A-C	27.53			27.53			

**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-AC	96.19	600.08	0.160	96.42	0.2	7.724	A
C-AB	0.00	1417.61	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	96.19			96.19			
A-C	22.47			22.47			

**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-AC	80.56	602.90	0.134	80.72	0.2	7.450	A
C-AB	0.00	1426.61	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	80.56			80.56			
A-C	18.82			18.82			

# 2019, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.57	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	2019	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 (%)
A		✓	544.00	100.000
B		✓	104.00	100.000
C		✓	25.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	144.000	400.000
	B	104.000	0.000	0.000
	C	25.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	8	8	8
	B	8	8	8
	C	8	8	8

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.23	10.18	0.3	B
C-A-B	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	78.30	534.75	0.146	77.56	0.2	8.490	A
C-AB	0.00	1281.93	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	108.41			108.41			
A-C	301.14			301.14			

### 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-AC	93.49	518.71	0.180	93.29	0.2	9.134	A
C-AB	0.00	1244.86	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	129.45			129.45			
A-C	359.59			359.59			

### 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-AC	114.51	496.52	0.231	114.17	0.3	10.159	B
C-AB	0.00	1193.59	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	158.55			158.55			
A-C	440.41			440.41			

### 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-AC	114.51	496.52	0.231	114.50	0.3	10.177	B
C-AB	0.00	1193.59	0.000	0.00	0.0	0.000	A
C-A	27.53			27.53			
A-B	158.55			158.55			
A-C	440.41			440.41			

### 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-AC	93.49	518.71	0.180	93.82	0.2	9.159	A
C-AB	0.00	1244.86	0.000	0.00	0.0	0.000	A
C-A	22.47			22.47			
A-B	129.45			129.45			
A-C	359.59			359.59			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	78.30	534.75	0.146	78.51	0.2	8.527	A
C-AB	0.00	1281.93	0.000	0.00	0.0	0.000	A
C-A	18.82			18.82			
A-B	108.41			108.41			
A-C	301.14			301.14			





# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.09	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	2029	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		✓	406.00	100.000
B		✓	107.00	100.000
C		✓	1074.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	107.000	299.000
	B	107.000	0.000	0.000
	C	1074.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	8	8	8
	B	8	8	8
	C	8	8	8

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.33	16.23	0.5	C
C-AB	0.00	0.00	0.0	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-AC	80.56	439.56	0.183	79.60	0.2	10.774	B
C-AB	0.00	1330.39	0.000	0.00	0.0	0.000	A
C-A	808.56			808.56			
A-B	80.56			80.56			
A-C	225.10			225.10			

### 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-AC	96.19	405.03	0.237	95.82	0.3	12.558	B
C-AB	0.00	1302.72	0.000	0.00	0.0	0.000	A
C-A	965.50			965.50			
A-B	96.19			96.19			
A-C	268.79			268.79			

### 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-AC	117.81	357.30	0.330	117.06	0.5	16.132	C
C-AB	0.00	1264.46	0.000	0.00	0.0	0.000	A
C-A	1182.50			1182.50			
A-B	117.81			117.81			
A-C	329.21			329.21			

### 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-AC	117.81	357.30	0.330	117.78	0.5	16.227	C
C-AB	0.00	1264.46	0.000	0.00	0.0	0.000	A
C-A	1182.50			1182.50			
A-B	117.81			117.81			
A-C	329.21			329.21			

### 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-AC	96.19	405.03	0.237	96.92	0.3	12.650	B
C-AB	0.00	1302.72	0.000	0.00	0.0	0.000	A
C-A	965.50			965.50			
A-B	96.19			96.19			
A-C	268.79			268.79			

### 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-AC	80.56	439.56	0.183	80.94	0.2	10.852	B
C-AB	0.00	1330.39	0.000	0.00	0.0	0.000	A
C-A	808.56			808.56			
A-B	80.56			80.56			
A-C	225.10			225.10			



# 2029, 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	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.39	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)
D4	2029	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 (%)
A		✓	1447.00	100.000
B		✓	104.00	100.000
C		✓	443.00	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	144.000	1303.000
	B	104.000	0.000	0.000
	C	443.000	0.000	0.000

## Vehicle Mix

### Heavy Vehicle proportion

		To		
		A	B	C
From	A	8	8	8
	B	8	8	8
	C	8	8	8

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-A-C	0.58	45.88	1.4	E
C-A-B	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

## Main Results for each time segment

### 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-AC	78.30	330.83	0.237	76.99	0.3	15.242	C
C-AB	0.00	964.85	0.000	0.00	0.0	0.000	A
C-A	333.51			333.51			
A-B	108.41			108.41			
A-C	980.97			980.97			

### 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-AC	93.49	275.21	0.340	92.65	0.5	21.197	C
C-AB	0.00	866.23	0.000	0.00	0.0	0.000	A
C-A	398.25			398.25			
A-B	129.45			129.45			
A-C	1171.37			1171.37			

### 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-AC	114.51	198.30	0.577	111.34	1.3	43.244	E
C-AB	0.00	729.87	0.000	0.00	0.0	0.000	A
C-A	487.75			487.75			
A-B	158.55			158.55			
A-C	1434.63			1434.63			

### 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-AC	114.51	198.30	0.577	114.24	1.4	45.884	E
C-AB	0.00	729.87	0.000	0.00	0.0	0.000	A
C-A	487.75			487.75			
A-B	158.55			158.55			
A-C	1434.63			1434.63			

### 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-AC	93.49	275.21	0.340	96.77	0.6	22.157	C
C-AB	0.00	866.23	0.000	0.00	0.0	0.000	A
C-A	398.25			398.25			
A-B	129.45			129.45			
A-C	1171.37			1171.37			

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

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	78.30	330.83	0.237	79.23	0.3	15.508	C
C-AB	0.00	964.85	0.000	0.00	0.0	0.000	A
C-A	333.51			333.51			
A-B	108.41			108.41			
A-C	980.97			980.97			