

Junctions 9				
PICADY 9 - Priority Intersection Module				
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Filename: 1232 Site Access.j9

Path: \\Aha-srv1\aha\AHA Data\Modelling\ARCADY&PICADY 9\1232

Report generation date: 29/09/2020 09:52:46

»With, AM

»With, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (min)	RFC	LOS	Set ID	Queue (PCU)	Delay (min)	RFC	LOS
With										
Stream B-C	D1	0.3	0.13	0.25	A	D2	0.2	0.11	0.14	A
Stream B-A		0.1	0.16	0.06	A		0.0	0.17	0.04	B
Stream C-B		0.1	0.10	0.09	A		0.2	0.10	0.20	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	10/01/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AHA\AHA
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	min	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (min)	Queue threshold (PCU)
		0.85	0.60	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	With	AM	ONE HOUR	07:45	09:15	15
D2	With	PM	ONE HOUR	16:15	17:45	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

With, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (min)	Junction LOS
1	untitled	T-Junction	Two-way		0.04	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Bangor Road West		Major
B	Site Access		Minor
C	Bangor Road East		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	6.40		✓	3.20	250.0		-

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	10.00	6.70	4.00	3.40	2.90		1.00	48	31

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	526	0.094	0.238	0.150	0.340
B-C	711	0.107	0.271	-	-
C-B	797	0.303	0.303	-	-

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	With	AM	ONE HOUR	07:45	09:15	15

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		✓	355	100.000
B		✓	156	100.000
C		✓	168	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	14	341
	B	20	0	136
	C	114	54	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	1	5
	B	1	0	1
	C	5	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (min)	Max Queue (PCU)	Max LOS
B-C	0.25	0.13	0.3	A
B-A	0.06	0.16	0.1	A
C-A				
C-B	0.09	0.10	0.1	A
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	102	635	0.161	102	0.2	0.113	A
B-A	15	435	0.035	15	0.0	0.144	A
C-A	86			86			
C-B	41	716	0.057	40	0.1	0.090	A
A-B	11			11			
A-C	257			257			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	122	620	0.197	122	0.2	0.122	A
B-A	18	417	0.043	18	0.0	0.152	A
C-A	102			102			
C-B	49	700	0.069	48	0.1	0.093	A
A-B	13			13			
A-C	307			307			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	150	599	0.250	149	0.3	0.135	A
B-A	22	390	0.056	22	0.1	0.164	A
C-A	126			126			
C-B	59	678	0.088	59	0.1	0.098	A
A-B	15			15			
A-C	375			375			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	150	599	0.250	150	0.3	0.135	A
B-A	22	390	0.056	22	0.1	0.165	A
C-A	126			126			
C-B	59	678	0.088	59	0.1	0.098	A
A-B	15			15			
A-C	375			375			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	122	620	0.197	123	0.3	0.122	A
B-A	18	417	0.043	18	0.0	0.152	A
C-A	102			102			
C-B	49	700	0.069	49	0.1	0.093	A
A-B	13			13			
A-C	307			307			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	102	635	0.161	103	0.2	0.114	A
B-A	15	435	0.035	15	0.0	0.144	A
C-A	86			86			
C-B	41	716	0.057	41	0.1	0.090	A
A-B	11			11			
A-C	257			257			

With, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (min)	Junction LOS
1	untitled	T-Junction	Two-way		0.03	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	With	PM	ONE HOUR	16:15	17:45	15

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		✓	190	100.000
B		✓	95	100.000
C		✓	443	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	18	172
	B	15	0	80
	C	313	130	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	5
	B	1	0	1
	C	5	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (min)	Max Queue (PCU)	Max LOS
B-C	0.14	0.11	0.2	A
B-A	0.04	0.17	0.0	B
C-A				
C-B	0.20	0.10	0.2	A
A-B				
A-C				

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	60	670	0.090	60	0.1	0.099	A
B-A	11	425	0.027	11	0.0	0.146	A
C-A	236			236			
C-B	98	754	0.130	97	0.1	0.092	A
A-B	14			14			
A-C	129			129			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	72	662	0.109	72	0.1	0.103	A
B-A	13	405	0.033	13	0.0	0.155	A
C-A	281			281			
C-B	117	745	0.157	117	0.2	0.096	A
A-B	16			16			
A-C	155			155			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	88	651	0.135	88	0.2	0.108	A
B-A	17	378	0.044	16	0.0	0.168	B
C-A	345			345			
C-B	143	733	0.195	143	0.2	0.103	A
A-B	20			20			
A-C	189			189			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	88	651	0.135	88	0.2	0.108	A
B-A	17	378	0.044	17	0.0	0.168	B
C-A	345			345			
C-B	143	733	0.195	143	0.2	0.103	A
A-B	20			20			
A-C	189			189			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	72	662	0.109	72	0.1	0.103	A
B-A	13	405	0.033	14	0.0	0.155	A
C-A	281			281			
C-B	117	745	0.157	117	0.2	0.097	A
A-B	16			16			
A-C	155			155			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (min)	Unsignalised level of service
B-C	60	670	0.090	60	0.1	0.099	A
B-A	11	425	0.027	11	0.0	0.147	A
C-A	236			236			
C-B	98	754	0.130	98	0.2	0.092	A
A-B	14			14			
A-C	129			129			