

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.0.6896
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Filename: Proposed Site Access Ghost Island 251119.j9

Path: C:\Users\Brad\Highgate Transportation\HTp - 1800 - Projects\1845 - Land East of Shripney Road\Modelling

Report generation date: 25/11/2019 13:09:16

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	LOS	Queue (Veh)	Delay (s)	RFC	LOS
2024 Base + Dev								
Stream B-AC	0.1	12.39	0.07	B	0.0	13.19	0.03	B
Stream C-AB	0.0	6.99	0.01	A	0.0	8.24	0.02	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	
Location	
Site number	
Date	11/06/2019
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	HTP-WS01\Brad
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	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)	Run automatically
D1	2024 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D2	2024 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2024 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Shripney Road (N)		Major
B	Site Access		Minor
C	Shripney Road (S)		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	6.88		✓	3.00	135.0	✓	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	3.45	18	20

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	516	0.090	0.228	0.144	0.326
1	B-C	665	0.098	0.248	-	-
1	C-B	709	0.264	0.264	-	-

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)	Run automatically
D1	2024 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	568	100.000
B		ONE HOUR	✓	19	100.000
C		ONE HOUR	✓	639	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	A	B	C	
From	A	0	3	565
	B	10	0	9
	C	635	4	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	15
	B	0	0	0
	C	15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-AC	0.07	12.39	0.1	B	17	26
C-AB	0.01	6.99	0.0	A	4	6
C-A					583	874
A-B					3	4
A-C					518	778

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	14	4	400	0.036	14	0.0	0.0	9.316	A
C-AB	3	0.75	579	0.005	3	0.0	0.0	6.248	A
C-A	478	120			478				
A-B	2	0.56			2				
A-C	425	106			425				

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	17	4	364	0.047	17	0.0	0.0	10.376	B
C-AB	4	0.90	554	0.006	4	0.0	0.0	6.540	A
C-A	571	143			571				
A-B	3	0.67			3				
A-C	508	127			508				

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	21	5	311	0.067	21	0.0	0.1	12.383	B
C-AB	4	1	519	0.008	4	0.0	0.0	6.993	A
C-A	699	175			699				
A-B	3	0.83			3				
A-C	622	156			622				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	21	5	311	0.067	21	0.1	0.1	12.390	B
C-AB	4	1	519	0.008	4	0.0	0.0	6.993	A
C-A	699	175			699				
A-B	3	0.83			3				
A-C	622	156			622				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	17	4	364	0.047	17	0.1	0.0	10.383	B
C-AB	4	0.90	554	0.006	4	0.0	0.0	6.541	A
C-A	571	143			571				
A-B	3	0.67			3				
A-C	508	127			508				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	14	4	400	0.036	14	0.0	0.0	9.324	A
C-AB	3	0.75	579	0.005	3	0.0	0.0	6.248	A
C-A	478	120			478				
A-B	2	0.56			2				
A-C	425	106			425				

2024 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.10	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)	Run automatically
D2	2024 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		ONE HOUR	✓	791	100.000
B		ONE HOUR	✓	7	100.000
C		ONE HOUR	✓	510	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	A	B	C	
From	A	0	10	781
	B	3	0	4
	C	503	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	15
	B	0	0	0
	C	15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-AC	0.03	13.19	0.0	B	6	10
C-AB	0.02	8.24	0.0	A	6	10
C-A					462	692
A-B					9	14
A-C					717	1075

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	5	1	385	0.014	5	0.0	0.0	9.475	B
C-AB	5	1	528	0.010	5	0.0	0.0	6.881	A
C-A	379	95			379				
A-B	8	2			8				
A-C	588	147			588				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	6	2	342	0.018	6	0.0	0.0	10.709	B
C-AB	6	2	493	0.013	6	0.0	0.0	7.391	A
C-A	452	113			452				
A-B	9	2			9				
A-C	702	176			702				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	8	2	281	0.027	8	0.0	0.0	13.187	B
C-AB	8	2	445	0.017	8	0.0	0.0	8.236	A
C-A	554	138			554				
A-B	11	3			11				
A-C	860	215			860				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	8	2	281	0.027	8	0.0	0.0	13.190	B
C-AB	8	2	445	0.017	8	0.0	0.0	8.236	A
C-A	554	138			554				
A-B	11	3			11				
A-C	860	215			860				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	6	2	342	0.018	6	0.0	0.0	10.712	B
C-AB	6	2	493	0.013	6	0.0	0.0	7.395	A
C-A	452	113			452				
A-B	9	2			9				
A-C	702	176			702				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	5	1	385	0.014	5	0.0	0.0	9.480	A
C-AB	5	1	528	0.010	5	0.0	0.0	6.882	A
C-A	379	95			379				
A-B	8	2			8				
A-C	588	147			588				