

Junctions 10									
PICADY 10 - Priority Intersection Module									
Version: 10.1.1.1905									
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Report generation date: 25/04/2024 17:28:29

»2026 + Dev, AM

»2026 + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
2026 + Dev										
Stream B-AC	D5	1.0	15.51	0.51	C	D6	0.2	9.27	0.18	A
Stream C-AB		0.2	5.47	0.13	A		0.5	5.90	0.23	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

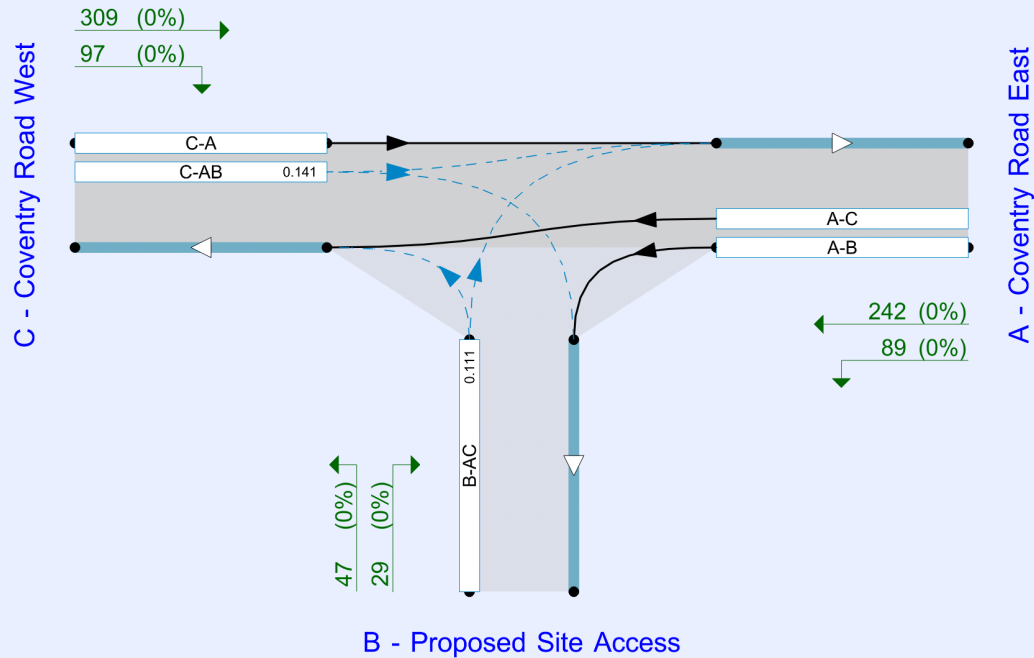
File summary

File Description

Title	Burbage Fields Farm Coventry Road Site Access
Location	
Site number	
Date	27/10/2023
Version	
Status	Proposed
Identifier	
Client	Redrow Homes
Jobnumber	P21-390
Enumerator	
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



Flows show original traffic demand (Veh/hr).
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
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
D5	2026 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2026 + 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

2026 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Proposed Site Access	T-Junction	Two-way	Two-way	Two-way		4.62	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.62	A

Arms

Arms

Arm	Name	Description	Arm type
A	Coventry Road East		Major
B	Proposed Site Access		Minor
C	Coventry Road West		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has rightturn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Coventry Road West	6.50			140.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Proposed Site Access	One lane	3.37	27	23

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	516	0.092	0.232	0.146	0.332
B-C	662	0.099	0.251	-	-
C-B	655	0.248	0.248	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2026 + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Coventry Road East		ONE HOUR	✓	303	100.000
B - Proposed Site Access		ONE HOUR	✓	219	100.000
C - Coventry Road West		ONE HOUR	✓	309	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Coventry Road East	B - Proposed Site Access	C - Coventry Road West
From	A - Coventry Road East	0	52	251
	B - Proposed Site Access	99	0	120
	C - Coventry Road West	251	58	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A - Coventry Road East	B - Proposed Site Access	C - Coventry Road West
From	A - Coventry Road East	0	0	2
	B - Proposed Site Access	0	0	0
	C - Coventry Road West	0	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	0.51	15.51	1.0	C	201	301
C-AB	0.13	5.47	0.2	A	78	118
C-A					205	308
A-B					48	72
A-C					230	345

2026 + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Proposed Site Access	T-Junction	Two-way	Two-way	Two-way		2.00	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.00	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2026 + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Coventry Road East		ONE HOUR	✓	331	100.000
B - Proposed Site Access		ONE HOUR	✓	76	100.000
C - Coventry Road West		ONE HOUR	✓	406	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Coventry Road East	B - Proposed Site Access	C - Coventry Road West
From	A - Coventry Road East	0	89	242
	B - Proposed Site Access	29	0	47
	C - Coventry Road West	309	97	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A - Coventry Road East	B - Proposed Site Access	C - Coventry Road West
From	A - Coventry Road East	0	0	0
	B - Proposed Site Access	0	0	0
	C - Coventry Road West	0	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	0.18	9.27	0.2	A	70	105
C-AB	0.23	5.90	0.5	A	143	215
C-A					229	344
A-B					82	123
A-C					222	333