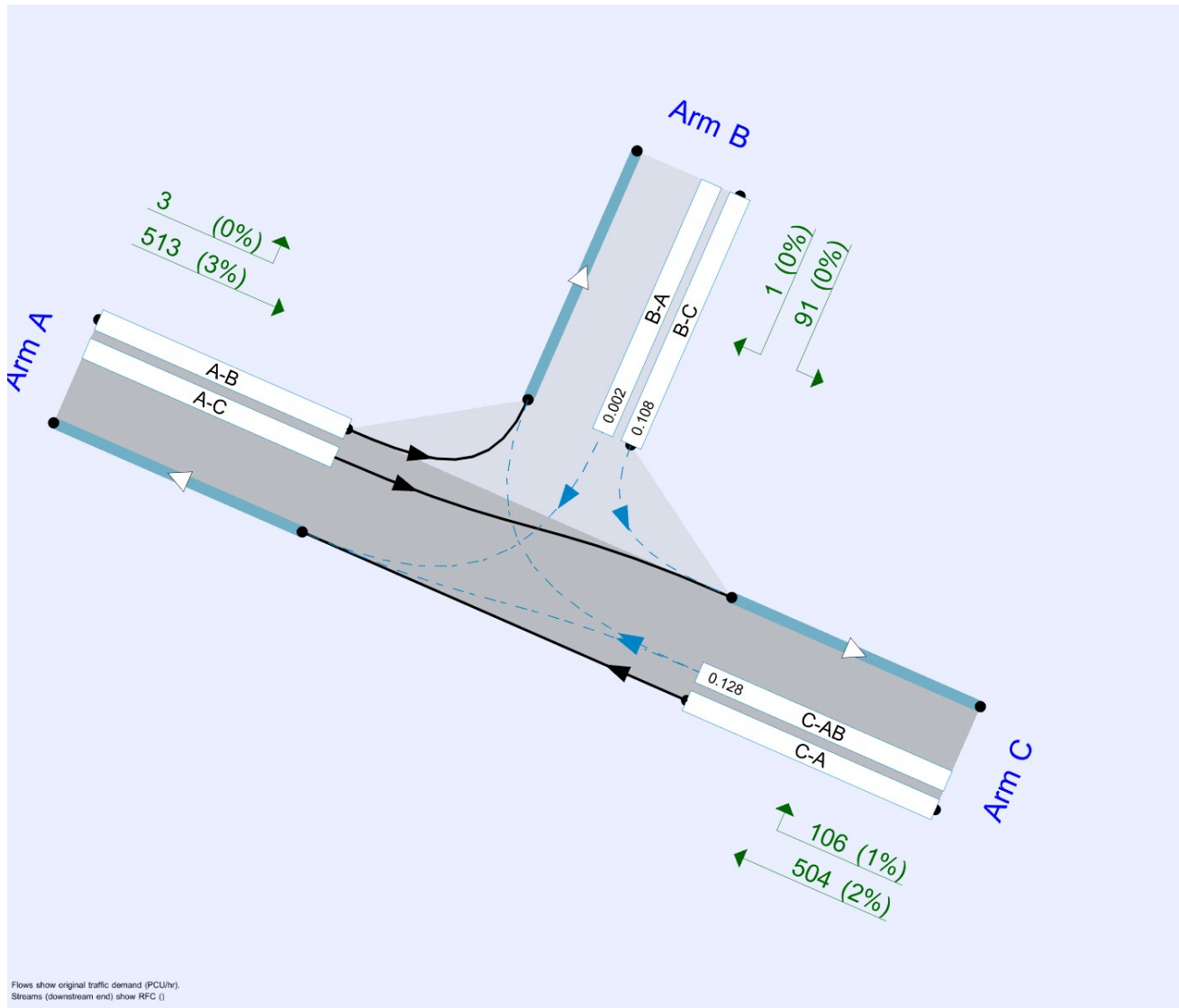




The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		1.28	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	115.0	✓	7.00

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	10.00	7.80	4.90	3.80	3.80	✓	2.00	38	31

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	495	0.086	0.218	0.137	0.311
1	B-C	733	0.107	0.272	-	-
1	C-B	731	0.271	0.271	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	462	100.000
B		ONE HOUR	✓	112	100.000
C		ONE HOUR	✓	586	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	0	462
	B	13	0	99
	C	511	75	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	7
	B	0	0	2
	C	6	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.19	7.68	0.2	A	91	136
B-A	0.05	13.52	0.1	B	12	18
C-AB	0.14	7.33	0.2	A	69	103
C-A					469	703
A-B					0	0
A-C					424	636

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	75	19	634	0.118	74	0.0	0.1	6.554	A
B-A	10	2	348	0.028	10	0.0	0.0	10.623	B
C-AB	56	14	637	0.089	56	0.0	0.1	6.441	A
C-A	385	96			385				
A-B	0	0			0				
A-C	348	87			348				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	89	22	614	0.145	89	0.1	0.2	6.987	A
B-A	12	3	320	0.037	12	0.0	0.0	11.676	B
C-AB	67	17	619	0.109	67	0.1	0.1	6.791	A
C-A	459	115			459				
A-B	0	0			0				
A-C	415	104			415				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	109	27	587	0.186	109	0.2	0.2	7.675	A
B-A	14	4	281	0.051	14	0.0	0.1	13.515	B
C-AB	83	21	593	0.139	82	0.1	0.2	7.326	A
C-A	563	141			563				
A-B	0	0			0				
A-C	509	127			509				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	109	27	587	0.186	109	0.2	0.2	7.683	A
B-A	14	4	281	0.051	14	0.1	0.1	13.522	B
C-AB	83	21	593	0.139	83	0.2	0.2	7.329	A
C-A	563	141			563				
A-B	0	0			0				
A-C	509	127			509				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	89	22	614	0.145	89	0.2	0.2	6.997	A
B-A	12	3	320	0.037	12	0.1	0.0	11.685	B
C-AB	67	17	619	0.109	68	0.2	0.1	6.797	A
C-A	459	115			459				
A-B	0	0			0				
A-C	415	104			415				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	75	19	634	0.118	75	0.2	0.1	6.569	A
B-A	10	2	348	0.028	10	0.0	0.0	10.638	B
C-AB	56	14	637	0.089	57	0.1	0.1	6.454	A
C-A	385	96			385				
A-B	0	0			0				
A-C	348	87			348				

2029 With 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		1.25	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	516	100.000
B		ONE HOUR	✓	92	100.000
C		ONE HOUR	✓	610	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	3	513
	B	1	0	91
	C	504	106	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	3
	B	0	0	0
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.17	7.45	0.2	A	84	125
B-A	0.00	14.24	0.0	B	0.92	1
C-AB	0.20	7.89	0.3	A	97	146
C-A					462	694
A-B					3	4
A-C					471	706

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	69	17	633	0.108	68	0.0	0.1	6.367	A
B-A	0.75	0.19	328	0.002	0.74	0.0	0.0	11.016	B
C-AB	80	20	626	0.128	79	0.0	0.1	6.644	A
C-A	379	95			379				
A-B	2	0.56			2				
A-C	386	97			386				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	82	20	612	0.134	82	0.1	0.2	6.783	A
B-A	0.90	0.22	297	0.003	0.90	0.0	0.0	12.175	B
C-AB	95	24	605	0.157	95	0.1	0.2	7.122	A
C-A	453	113			453				
A-B	3	0.67			3				
A-C	461	115			461				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	100	25	584	0.172	100	0.2	0.2	7.439	A
B-A	1	0.28	254	0.004	1	0.0	0.0	14.239	B
C-AB	117	29	577	0.202	116	0.2	0.3	7.884	A
C-A	555	139			555				
A-B	3	0.83			3				
A-C	565	141			565				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	100	25	584	0.172	100	0.2	0.2	7.445	A
B-A	1	0.28	254	0.004	1	0.0	0.0	14.243	B
C-AB	117	29	577	0.202	117	0.3	0.3	7.894	A
C-A	555	139			555				
A-B	3	0.83			3				
A-C	565	141			565				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	82	20	612	0.134	82	0.2	0.2	6.793	A
B-A	0.90	0.22	296	0.003	0.90	0.0	0.0	12.183	B
C-AB	95	24	605	0.157	96	0.3	0.2	7.132	A
C-A	453	113			453				
A-B	3	0.67			3				
A-C	461	115			461				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	69	17	633	0.108	69	0.2	0.1	6.380	A
B-A	0.75	0.19	327	0.002	0.76	0.0	0.0	11.024	B
C-AB	80	20	626	0.128	80	0.2	0.1	6.661	A
C-A	379	95			379				
A-B	2	0.56			2				
A-C	386	97			386				

Junctions 9							
ARCADY 9 - Roundabout Module							
Version: 9.5.0.6896							
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Filename: Link Road South Rbt inc Hoy South.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Link Road Southern Access rbt

Report generation date: 27/08/2020 13:45:53

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Arm 1	0.7	4.05	0.42	A	0.7	3.56	0.40	A
Arm 2	0.1	4.82	0.04	A	0.1	3.73	0.10	A
Arm 3	0.6	2.94	0.36	A	0.9	3.45	0.46	A
Arm 4	0.4	4.32	0.30	A	0.1	3.59	0.13	A

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

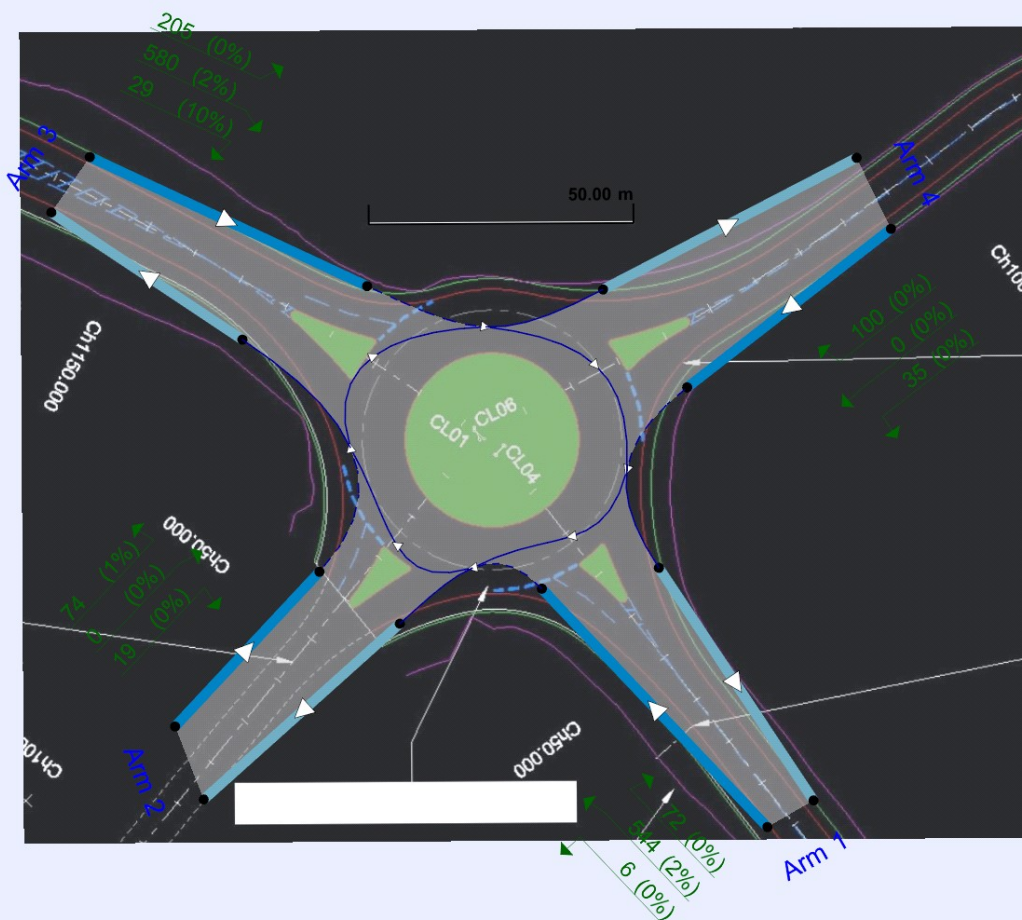
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



Flows show original traffic demand (PCU/hr).

The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	3.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	untitled	
2	untitled	
3	untitled	
4	untitled	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.69	8.54	11.8	31.8	56.7	28.0	
2	3.45	8.35	5.7	40.2	56.5	22.3	
3	4.81	6.90	23.4	36.2	56.7	25.4	
4	3.95	6.79	5.0	33.5	56.6	29.4	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.600	1798
2	0.557	1514
3	0.643	2023
4	0.552	1533

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	599	100.000
2		ONE HOUR	✓	40	100.000
3		ONE HOUR	✓	653	100.000
4		ONE HOUR	✓	319	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	0	18	552	29
	2	3	0	37	0
	3	476	94	0	83
	4	83	0	236	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	4	0
	2	0	0	33	0
	3	4	13	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.42	4.05	0.7	A	550	824
2	0.04	4.82	0.1	A	37	55
3	0.36	2.94	0.6	A	599	899
4	0.30	4.32	0.4	A	293	439

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	451	113	248	1650	0.273	449	422	0.0	0.4	3.105	A
2	30	8	613	1172	0.026	30	84	0.0	0.0	4.090	A
3	492	123	24	2008	0.245	490	619	0.0	0.3	2.480	A
4	240	60	430	1296	0.185	239	84	0.0	0.2	3.404	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	538	135	296	1620	0.332	538	505	0.4	0.5	3.446	A
2	36	9	734	1105	0.033	36	101	0.0	0.0	4.370	A
3	587	147	29	2005	0.293	587	741	0.3	0.4	2.657	A
4	287	72	515	1249	0.230	286	101	0.2	0.3	3.739	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	660	165	363	1580	0.417	659	618	0.5	0.7	4.044	A
2	44	11	898	1013	0.043	44	123	0.0	0.1	4.820	A
3	719	180	35	2001	0.359	718	907	0.4	0.6	2.936	A
4	351	88	630	1185	0.296	351	123	0.3	0.4	4.310	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	660	165	363	1580	0.417	659	619	0.7	0.7	4.053	A
2	44	11	900	1013	0.043	44	123	0.1	0.1	4.823	A
3	719	180	35	2001	0.359	719	908	0.6	0.6	2.939	A
4	351	88	631	1185	0.296	351	123	0.4	0.4	4.317	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	538	135	297	1620	0.332	539	506	0.7	0.5	3.458	A
2	36	9	736	1104	0.033	36	101	0.1	0.0	4.375	A
3	587	147	29	2005	0.293	588	743	0.6	0.4	2.659	A
4	287	72	516	1249	0.230	287	101	0.4	0.3	3.745	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	451	113	249	1649	0.273	451	423	0.5	0.4	3.119	A
2	30	8	616	1171	0.026	30	84	0.0	0.0	4.096	A
3	492	123	24	2008	0.245	492	622	0.4	0.3	2.487	A
4	240	60	432	1295	0.185	240	84	0.3	0.2	3.416	A

2029 With Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	3.52	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	622	100.000
2		ONE HOUR	✓	93	100.000
3		ONE HOUR	✓	814	100.000
4		ONE HOUR	✓	135	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	0	6	544	72
	2	19	0	74	0
	3	580	29	0	205
	4	35	0	100	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	2	0
	2	0	0	1	0
	3	2	10	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.40	3.56	0.7	A	571	856
2	0.10	3.73	0.1	A	85	128
3	0.46	3.45	0.9	A	747	1120
4	0.13	3.59	0.1	A	124	186

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	468	117	97	1740	0.269	467	476	0.0	0.4	2.875	A
2	70	18	537	1214	0.058	70	26	0.0	0.1	3.170	A
3	613	153	68	1979	0.310	611	539	0.0	0.5	2.673	A
4	102	25	471	1273	0.080	101	208	0.0	0.1	3.072	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	559	140	116	1729	0.323	559	570	0.4	0.5	3.131	A
2	84	21	643	1155	0.072	84	31	0.1	0.1	3.384	A
3	732	183	82	1971	0.371	731	645	0.5	0.6	2.953	A
4	121	30	564	1222	0.099	121	249	0.1	0.1	3.270	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	685	171	142	1713	0.400	684	697	0.5	0.7	3.558	A
2	102	26	787	1075	0.095	102	38	0.1	0.1	3.729	A
3	896	224	100	1959	0.458	895	790	0.6	0.9	3.440	A
4	149	37	691	1152	0.129	148	305	0.1	0.1	3.586	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	685	171	142	1713	0.400	685	698	0.7	0.7	3.561	A
2	102	26	788	1075	0.095	102	39	0.1	0.1	3.731	A
3	896	224	100	1959	0.458	896	791	0.9	0.9	3.446	A
4	149	37	691	1152	0.129	149	305	0.1	0.1	3.588	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	559	140	116	1728	0.324	560	571	0.7	0.5	3.135	A
2	84	21	645	1155	0.072	84	32	0.1	0.1	3.390	A
3	732	183	82	1971	0.371	733	646	0.9	0.6	2.960	A
4	121	30	565	1221	0.099	122	249	0.1	0.1	3.275	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	468	117	97	1740	0.269	469	478	0.5	0.4	2.884	A
2	70	18	540	1213	0.058	70	26	0.1	0.1	3.174	A
3	613	153	69	1979	0.310	613	541	0.6	0.5	2.684	A
4	102	25	473	1272	0.080	102	209	0.1	0.1	3.075	A

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Link Road_Tankersley Lane.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Link Road_Tankersley Lane

Report generation date: 28/08/2020 09:17:16

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.7	12.75	0.42	B	0.9	13.65	0.47	B
Stream B-A	0.7	26.21	0.42	D	0.8	30.83	0.46	D
Stream C-AB	0.5	9.69	0.34	A	0.9	11.68	0.46	B

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

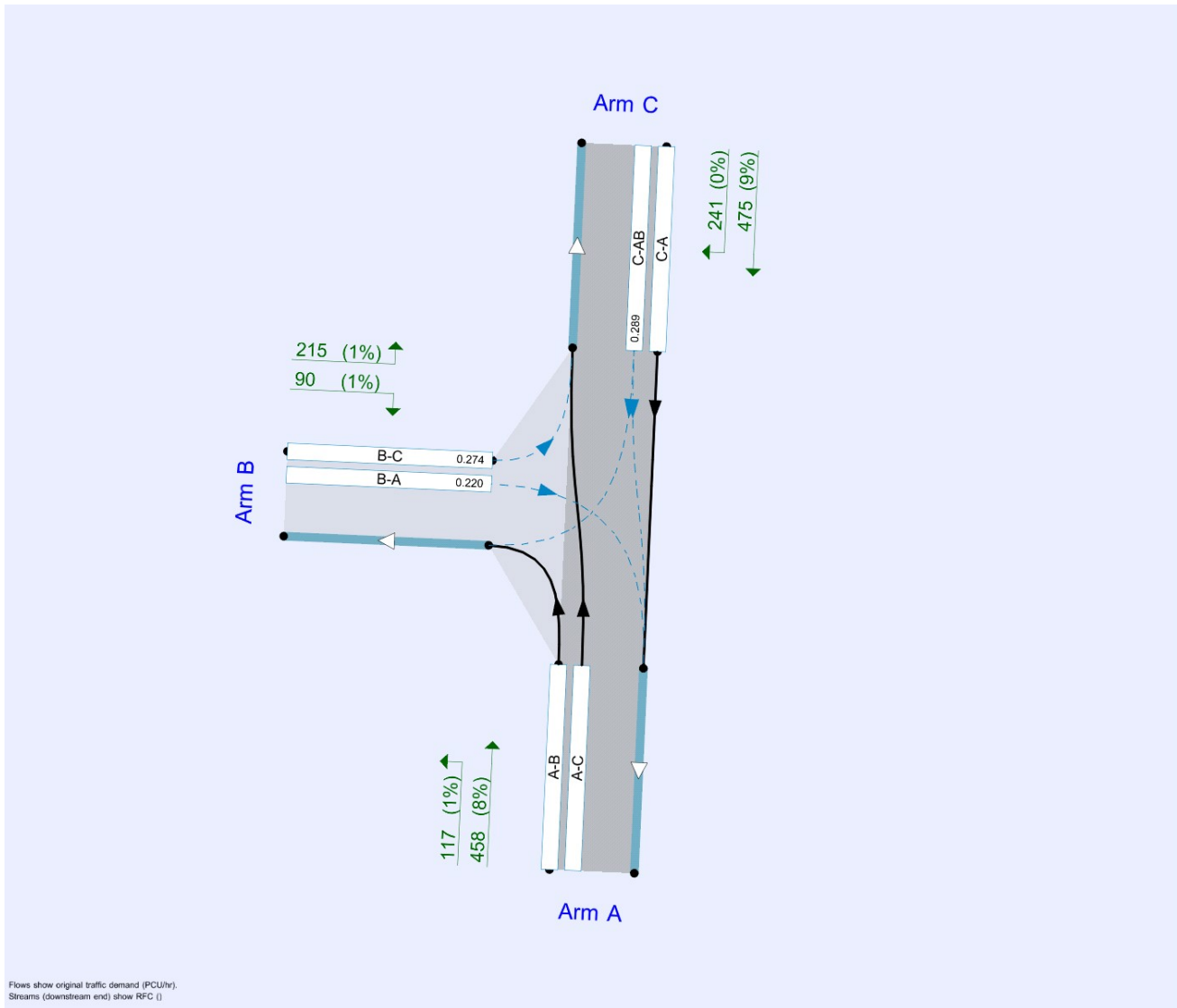
File summary

File Description

Title	
Location	
Site number	
Date	23/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		4.42	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	140.0	✓	7.00

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	10.00	9.00	5.80	5.20	5.00	✓	3.00	48	35

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	503	0.088	0.221	0.139	0.316
1	B-C	720	0.106	0.267	-	-
1	C-B	748	0.277	0.277	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	567	100.000
B		ONE HOUR	✓	283	100.000
C		ONE HOUR	✓	641	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	90	477
	B	93	0	190
	C	463	178	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	1	10
	B	2	0	4
	C	12	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.42	12.75	0.7	B	174	262
B-A	0.42	26.21	0.7	D	85	128
C-AB	0.34	9.69	0.5	A	163	245
C-A					425	637
A-B					83	124
A-C					438	657

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	36	584	0.245	142	0.0	0.3	8.442	A
B-A	70	18	326	0.215	69	0.0	0.3	14.213	B
C-AB	134	34	629	0.213	133	0.0	0.3	7.378	A
C-A	349	87			349				
A-B	68	17			68				
A-C	359	90			359				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	553	0.309	170	0.3	0.5	9.773	A
B-A	84	21	291	0.287	83	0.3	0.4	17.586	C
C-AB	160	40	607	0.264	160	0.3	0.4	8.211	A
C-A	416	104			416				
A-B	81	20			81				
A-C	429	107			429				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	209	52	504	0.415	208	0.5	0.7	12.611	B
B-A	102	26	242	0.422	101	0.4	0.7	25.765	D
C-AB	196	49	575	0.341	195	0.4	0.5	9.657	A
C-A	510	127			510				
A-B	99	25			99				
A-C	525	131			525				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	209	52	503	0.416	209	0.7	0.7	12.749	B
B-A	102	26	242	0.423	102	0.7	0.7	26.209	D
C-AB	196	49	575	0.341	196	0.5	0.5	9.689	A
C-A	510	127			510				
A-B	99	25			99				
A-C	525	131			525				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	551	0.310	172	0.7	0.5	9.891	A
B-A	84	21	291	0.287	85	0.7	0.4	17.890	C
C-AB	160	40	607	0.264	161	0.5	0.4	8.248	A
C-A	416	104			416				
A-B	81	20			81				
A-C	429	107			429				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	36	583	0.245	144	0.5	0.3	8.537	A
B-A	70	18	326	0.215	71	0.4	0.3	14.406	B
C-AB	134	34	629	0.213	134	0.4	0.3	7.421	A
C-A	349	87			349				
A-B	68	17			68				
A-C	359	90			359				

2029 With 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		5.34	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	575	100.000
B		ONE HOUR	✓	305	100.000
C		ONE HOUR	✓	716	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	117	458
	B	90	0	215
	C	475	241	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	8
	B	1	0	1
	C	9	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.47	13.65	0.9	B	197	296
B-A	0.46	30.83	0.8	D	83	124
C-AB	0.46	11.68	0.9	B	222	332
C-A					435	653
A-B					107	161
A-C					420	630

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	162	40	590	0.274	160	0.0	0.4	8.428	A
B-A	68	17	308	0.220	67	0.0	0.3	15.006	C
C-AB	181	45	628	0.289	180	0.0	0.4	8.008	A
C-A	358	89			358				
A-B	88	22			88				
A-C	345	86			345				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	193	48	558	0.346	193	0.4	0.5	9.934	A
B-A	81	20	270	0.299	80	0.3	0.4	19.094	C
C-AB	217	54	605	0.358	216	0.4	0.6	9.234	A
C-A	427	107			427				
A-B	105	26			105				
A-C	412	103			412				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	237	59	505	0.469	235	0.5	0.9	13.431	B
B-A	99	25	217	0.457	98	0.4	0.8	30.047	D
C-AB	266	67	575	0.464	265	0.6	0.8	11.593	B
C-A	522	130			522				
A-B	129	32			129				
A-C	504	126			504				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	237	59	503	0.471	237	0.9	0.9	13.652	B
B-A	99	25	217	0.457	99	0.8	0.8	30.829	D
C-AB	266	67	575	0.464	266	0.8	0.9	11.678	B
C-A	522	130			522				
A-B	129	32			129				
A-C	504	126			504				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	193	48	556	0.348	195	0.9	0.5	10.096	B
B-A	81	20	270	0.300	82	0.8	0.4	19.547	C
C-AB	217	54	605	0.358	218	0.9	0.6	9.333	A
C-A	427	107			427				
A-B	105	26			105				
A-C	412	103			412				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	162	40	589	0.275	162	0.5	0.4	8.541	A
B-A	68	17	307	0.220	68	0.4	0.3	15.249	C
C-AB	181	45	628	0.289	182	0.6	0.4	8.087	A
C-A	358	89			358				
A-B	88	22			88				
A-C	345	86			345				

Appendix F

Sensitivity Test Junction Modelling Results

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Plot 3 Tankersley Lane Access.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Plot 3 Sensitivity Test\Plot 3 Tankersley Lane Access

Report generation date: 28/08/2020 10:28:15

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.0	5.89	0.03	A	0.1	6.16	0.10	A
Stream B-A	0.0	9.43	0.00	A	0.0	9.55	0.02	A
Stream C-AB	0.1	6.36	0.12	A	0.0	5.66	0.03	A

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

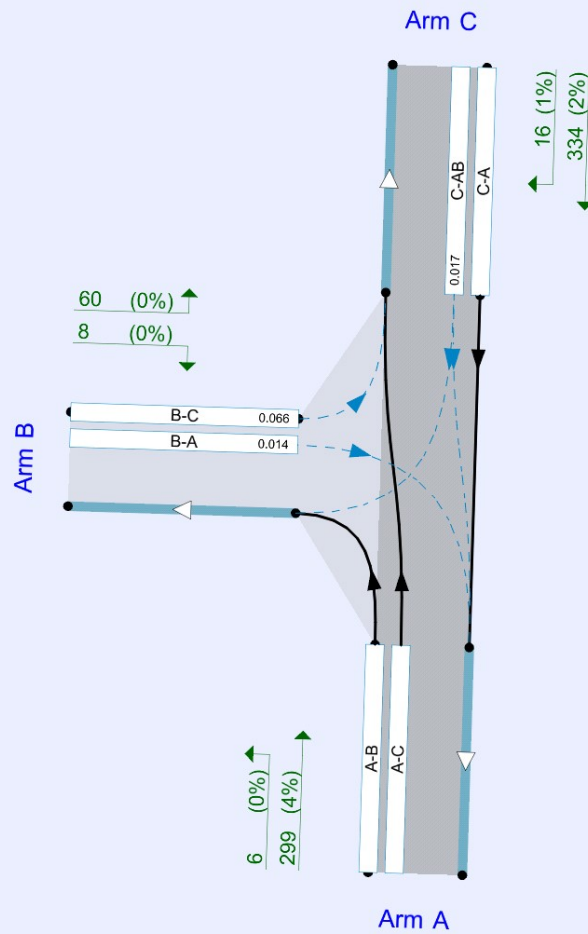
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZY\Modelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		0.93	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	150.0	✓	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	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	8.40	4.70	3.60	3.60	✓	1.00	45	60

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	515	0.090	0.227	0.143	0.324
1	B-C	750	0.110	0.278	-	-
1	C-B	754	0.280	0.280	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	266	100.000
B		ONE HOUR	✓	21	100.000
C		ONE HOUR	✓	335	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	8	258
	B	1	0	20
	C	264	71	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	10
	B	0	0	6
	C	4	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	5.89	0.0	A	18	28
B-A	0.00	9.43	0.0	A	0.92	1
C-AB	0.12	6.36	0.1	A	65	98
C-A					242	363
A-B					7	11
A-C					237	355

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	695	0.022	15	0.0	0.0	5.610	A
B-A	0.75	0.19	425	0.002	0.75	0.0	0.0	8.486	A
C-AB	53	13	698	0.077	53	0.0	0.1	5.856	A
C-A	199	50			199				
A-B	6	2			6				
A-C	194	49			194				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	685	0.026	18	0.0	0.0	5.724	A
B-A	0.90	0.22	407	0.002	0.90	0.0	0.0	8.857	A
C-AB	64	16	687	0.093	64	0.1	0.1	6.060	A
C-A	237	59			237				
A-B	7	2			7				
A-C	232	58			232				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	670	0.033	22	0.0	0.0	5.890	A
B-A	1	0.28	383	0.003	1	0.0	0.0	9.424	A
C-AB	78	20	672	0.116	78	0.1	0.1	6.357	A
C-A	291	73			291				
A-B	9	2			9				
A-C	284	71			284				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	670	0.033	22	0.0	0.0	5.890	A
B-A	1	0.28	383	0.003	1	0.0	0.0	9.425	A
C-AB	78	20	672	0.116	78	0.1	0.1	6.359	A
C-A	291	73			291				
A-B	9	2			9				
A-C	284	71			284				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	684	0.026	18	0.0	0.0	5.725	A
B-A	0.90	0.22	407	0.002	0.90	0.0	0.0	8.858	A
C-AB	64	16	687	0.093	64	0.1	0.1	6.062	A
C-A	237	59			237				
A-B	7	2			7				
A-C	232	58			232				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	695	0.022	15	0.0	0.0	5.610	A
B-A	0.75	0.19	425	0.002	0.75	0.0	0.0	8.488	A
C-AB	53	13	698	0.077	54	0.1	0.1	5.862	A
C-A	199	50			199				
A-B	6	2			6				
A-C	194	49			194				

2029 With 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		0.74	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	305	100.000
B		ONE HOUR	✓	68	100.000
C		ONE HOUR	✓	350	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	6	299
	B	8	0	60
	C	334	16	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	4
	B	0	0	0
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.10	6.16	0.1	A	55	83
B-A	0.02	9.55	0.0	A	7	11
C-AB	0.03	5.66	0.0	A	15	22
C-A					306	460
A-B					6	8
A-C					274	412

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	681	0.066	45	0.0	0.1	5.659	A
B-A	6	2	429	0.014	6	0.0	0.0	8.517	A
C-AB	12	3	690	0.017	12	0.0	0.0	5.361	A
C-A	251	63			251				
A-B	5	1			5				
A-C	225	56			225				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	54	13	668	0.081	54	0.1	0.1	5.862	A
B-A	7	2	411	0.018	7	0.0	0.0	8.923	A
C-AB	14	4	678	0.021	14	0.0	0.0	5.481	A
C-A	300	75			300				
A-B	5	1			5				
A-C	269	67			269				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	66	17	650	0.102	66	0.1	0.1	6.161	A
B-A	9	2	386	0.023	9	0.0	0.0	9.552	A
C-AB	18	4	660	0.027	18	0.0	0.0	5.655	A
C-A	368	92			368				
A-B	7	2			7				
A-C	329	82			329				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	66	17	650	0.102	66	0.1	0.1	6.161	A
B-A	9	2	386	0.023	9	0.0	0.0	9.552	A
C-AB	18	4	660	0.027	18	0.0	0.0	5.655	A
C-A	368	92			368				
A-B	7	2			7				
A-C	329	82			329				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	54	13	668	0.081	54	0.1	0.1	5.864	A
B-A	7	2	411	0.018	7	0.0	0.0	8.926	A
C-AB	14	4	678	0.021	14	0.0	0.0	5.483	A
C-A	300	75			300				
A-B	5	1			5				
A-C	269	67			269				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	681	0.066	45	0.1	0.1	5.665	A
B-A	6	2	429	0.014	6	0.0	0.0	8.519	A
C-AB	12	3	690	0.017	12	0.0	0.0	5.361	A
C-A	251	63			251				
A-B	5	1			5				
A-C	225	56			225				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Link Road_Tankersley Lane Plot3 Sensitivity.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Plot 3 Sensitivity Test\Link Road_Tankersley Lane

Report generation date: 04/06/2020 15:27:28

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.9	14.41	0.46	B	1.6	20.24	0.61	C
Stream B-A	0.9	31.01	0.47	D	1.5	44.60	0.61	E
Stream C-AB	0.8	11.65	0.44	B	1.0	12.35	0.49	B

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	23/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		5.55	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	140.0	✓	7.00

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	10.00	9.00	5.80	5.20	5.00	✓	3.00	48	35

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	501	0.087	0.221	0.139	0.315
1	B-C	722	0.106	0.268	-	-
1	C-B	748	0.277	0.277	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	568	100.000
B		ONE HOUR	✓	305	100.000
C		ONE HOUR	✓	694	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	116	452
	B	97	0	208
	C	463	231	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	1	11
	B	2	0	7
	C	12	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.46	14.41	0.9	B	191	286
B-A	0.47	31.01	0.9	D	89	134
C-AB	0.44	11.65	0.8	B	212	318
C-A					425	637
A-B					106	160
A-C					415	622

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	157	39	586	0.267	155	0.0	0.4	8.911	A
B-A	73	18	315	0.232	72	0.0	0.3	15.039	C
C-AB	174	43	629	0.276	172	0.0	0.4	8.167	A
C-A	349	87			349				
A-B	87	22			87				
A-C	340	85			340				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	187	47	553	0.338	186	0.4	0.5	10.484	B
B-A	87	22	278	0.314	87	0.3	0.5	19.148	C
C-AB	208	52	607	0.343	207	0.4	0.5	9.363	A
C-A	416	104			416				
A-B	104	26			104				
A-C	406	102			406				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	229	57	498	0.460	228	0.5	0.9	14.162	B
B-A	107	27	225	0.474	105	0.5	0.9	30.169	D
C-AB	255	64	576	0.443	254	0.5	0.8	11.576	B
C-A	509	127			509				
A-B	128	32			128				
A-C	498	124			498				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	229	57	496	0.462	229	0.9	0.9	14.408	B
B-A	107	27	225	0.475	107	0.9	0.9	31.006	D
C-AB	255	64	577	0.443	255	0.8	0.8	11.653	B
C-A	509	127			509				
A-B	128	32			128				
A-C	498	124			498				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	187	47	551	0.339	188	0.9	0.6	10.658	B
B-A	87	22	277	0.314	89	0.9	0.5	19.636	C
C-AB	208	52	607	0.343	209	0.8	0.6	9.441	A
C-A	416	104			416				
A-B	104	26			104				
A-C	406	102			406				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	157	39	584	0.268	157	0.6	0.4	9.035	A
B-A	73	18	314	0.232	74	0.5	0.3	15.300	C
C-AB	174	43	629	0.276	175	0.6	0.4	8.243	A
C-A	349	87			349				
A-B	87	22			87				
A-C	340	85			340				

2029 With 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		8.05	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	575	100.000
B		ONE HOUR	✓	373	100.000
C		ONE HOUR	✓	729	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	123	452
	B	115	0	258
	C	475	254	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	8
	B	1	0	1
	C	9	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.61	20.24	1.6	C	237	355
B-A	0.61	44.60	1.5	E	106	158
C-AB	0.49	12.35	1.0	B	234	351
C-A					435	653
A-B					113	169
A-C					415	622

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	194	49	579	0.336	192	0.0	0.5	9.363	A
B-A	87	22	306	0.283	85	0.0	0.4	16.327	C
C-AB	191	48	628	0.305	190	0.0	0.4	8.262	A
C-A	358	89			358				
A-B	93	23			93				
A-C	340	85			340				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	232	58	541	0.428	231	0.5	0.7	11.678	B
B-A	103	26	267	0.387	102	0.4	0.6	21.993	C
C-AB	229	57	605	0.378	228	0.4	0.6	9.624	A
C-A	427	107			427				
A-B	111	28			111				
A-C	406	102			406				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	284	71	468	0.607	281	0.7	1.5	19.134	C
B-A	127	32	208	0.609	123	0.6	1.4	41.518	E
C-AB	281	70	576	0.489	280	0.6	0.9	12.238	B
C-A	521	130			521				
A-B	135	34			135				
A-C	498	124			498				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	284	71	463	0.614	284	1.5	1.6	20.243	C
B-A	127	32	207	0.612	126	1.4	1.5	44.600	E
C-AB	281	70	576	0.489	281	0.9	1.0	12.346	B
C-A	521	130			521				
A-B	135	34			135				
A-C	498	124			498				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	232	58	537	0.432	235	1.6	0.8	12.146	B
B-A	103	26	266	0.388	107	1.5	0.7	23.212	C
C-AB	229	57	605	0.378	230	1.0	0.6	9.729	A
C-A	427	107			427				
A-B	111	28			111				
A-C	406	102			406				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	194	49	577	0.337	195	0.8	0.5	9.563	A
B-A	87	22	306	0.283	88	0.7	0.4	16.749	C
C-AB	191	48	628	0.305	192	0.6	0.4	8.356	A
C-A	358	89			358				
A-B	93	23			93				
A-C	340	85			340				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Plot 3 Link Road Access inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Plot 3 Access

Report generation date: 27/08/2020 10:23:07

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.1	9.34	0.04	A	0.1	7.71	0.09	A
Stream B-A	0.0	15.36	0.02	C	0.1	16.61	0.11	C
Stream C-AB	0.1	7.52	0.10	A	0.0	6.95	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.

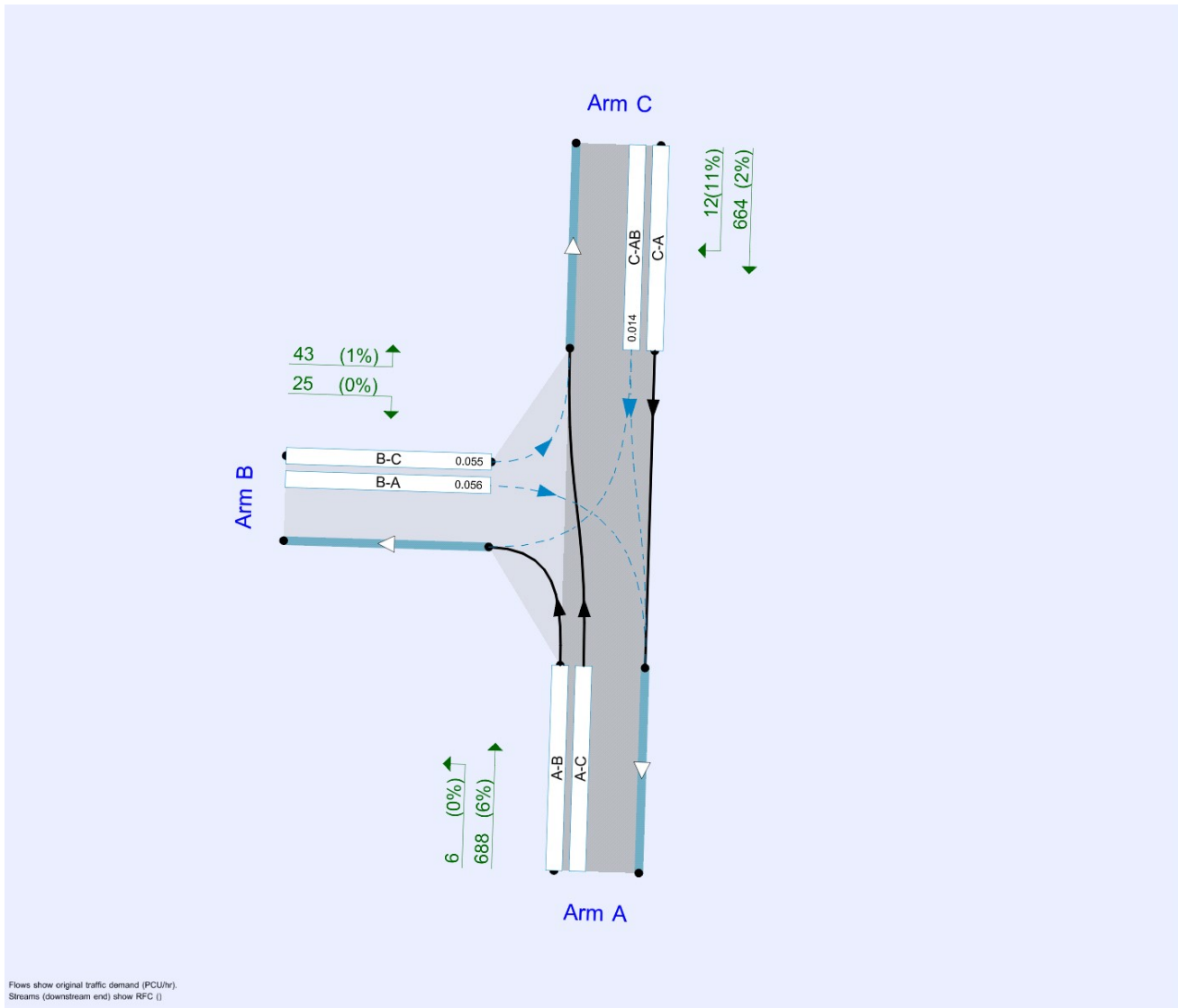
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZY\Modelling
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

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		0.47	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	250.0	✓	7.00

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	10.00	8.40	4.70	3.60	3.60	✓	1.00	44	54

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	523	0.091	0.230	0.145	0.329
1	B-C	738	0.108	0.273	-	-
1	C-B	820	0.304	0.304	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	701	100.000
B		ONE HOUR	✓	22	100.000
C		ONE HOUR	✓	622	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	25	676
	B	4	0	18
	C	568	54	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	9
	B	0	0	32
	C	3	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	9.34	0.1	A	17	25
B-A	0.02	15.36	0.0	C	4	6
C-AB	0.10	7.52	0.1	A	50	74
C-A					521	782
A-B					23	34
A-C					620	930

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	595	0.023	13	0.0	0.0	8.168	A
B-A	3	0.75	329	0.009	3	0.0	0.0	11.051	B
C-AB	41	10	660	0.062	40	0.0	0.1	6.388	A
C-A	428	107			428				
A-B	19	5			19				
A-C	509	127			509				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	567	0.029	16	0.0	0.0	8.623	A
B-A	4	0.90	291	0.012	4	0.0	0.0	12.529	B
C-AB	49	12	629	0.077	48	0.1	0.1	6.823	A
C-A	511	128			511				
A-B	22	6			22				
A-C	608	152			608				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	529	0.037	20	0.0	0.1	9.337	A
B-A	4	1	239	0.018	4	0.0	0.0	15.358	C
C-AB	59	15	586	0.102	59	0.1	0.1	7.520	A
C-A	625	156			625				
A-B	28	7			28				
A-C	744	186			744				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	529	0.037	20	0.1	0.1	9.339	A
B-A	4	1	239	0.018	4	0.0	0.0	15.363	C
C-AB	59	15	586	0.102	59	0.1	0.1	7.523	A
C-A	625	156			625				
A-B	28	7			28				
A-C	744	186			744				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	567	0.029	16	0.1	0.0	8.627	A
B-A	4	0.90	291	0.012	4	0.0	0.0	12.532	B
C-AB	49	12	629	0.077	49	0.1	0.1	6.826	A
C-A	511	128			511				
A-B	22	6			22				
A-C	608	152			608				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	595	0.023	14	0.0	0.0	8.174	A
B-A	3	0.75	329	0.009	3	0.0	0.0	11.057	B
C-AB	41	10	660	0.062	41	0.1	0.1	6.397	A
C-A	428	107			428				
A-B	19	5			19				
A-C	509	127			509				

2029 With 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		0.58	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	694	100.000
B		ONE HOUR	✓	68	100.000
C		ONE HOUR	✓	676	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	6	688
	B	25	0	43
	C	664	12	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	6
	B	0	0	1
	C	2	11	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	7.71	0.1	A	39	59
B-A	0.11	16.61	0.1	C	23	34
C-AB	0.02	6.95	0.0	A	11	17
C-A					609	914
A-B					6	8
A-C					631	947

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	593	0.055	32	0.0	0.1	6.478	A
B-A	19	5	337	0.056	19	0.0	0.1	11.289	B
C-AB	9	2	662	0.014	9	0.0	0.0	6.123	A
C-A	500	125			500				
A-B	5	1			5				
A-C	518	129			518				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	562	0.069	39	0.1	0.1	6.940	A
B-A	22	6	298	0.075	22	0.1	0.1	13.044	B
C-AB	11	3	631	0.017	11	0.0	0.0	6.444	A
C-A	597	149			597				
A-B	5	1			5				
A-C	618	155			618				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	47	12	519	0.091	47	0.1	0.1	7.704	A
B-A	28	7	244	0.113	27	0.1	0.1	16.582	C
C-AB	13	3	588	0.022	13	0.0	0.0	6.950	A
C-A	731	183			731				
A-B	7	2			7				
A-C	758	189			758				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	47	12	519	0.091	47	0.1	0.1	7.709	A
B-A	28	7	244	0.113	28	0.1	0.1	16.606	C
C-AB	13	3	588	0.022	13	0.0	0.0	6.950	A
C-A	731	183			731				
A-B	7	2			7				
A-C	758	189			758				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	562	0.069	39	0.1	0.1	6.946	A
B-A	22	6	298	0.075	23	0.1	0.1	13.068	B
C-AB	11	3	631	0.017	11	0.0	0.0	6.445	A
C-A	597	149			597				
A-B	5	1			5				
A-C	618	155			618				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	593	0.055	32	0.1	0.1	6.491	A
B-A	19	5	337	0.056	19	0.1	0.1	11.308	B
C-AB	9	2	662	0.014	9	0.0	0.0	6.123	A
C-A	500	125			500				
A-B	5	1			5				
A-C	518	129			518				

Junctions 9							
ARCADY 9 - Roundabout Module							
Version: 9.5.0.6896							
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Filename: Hermes Access inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Hermes Access

Report generation date: 27/08/2020 09:54:24

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Arm 1	0.6	3.33	0.35	A	0.5	3.03	0.32	A
Arm 2	0.1	6.51	0.09	A	0.1	6.61	0.09	A
Arm 3	0.5	3.01	0.32	A	0.5	2.99	0.34	A

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

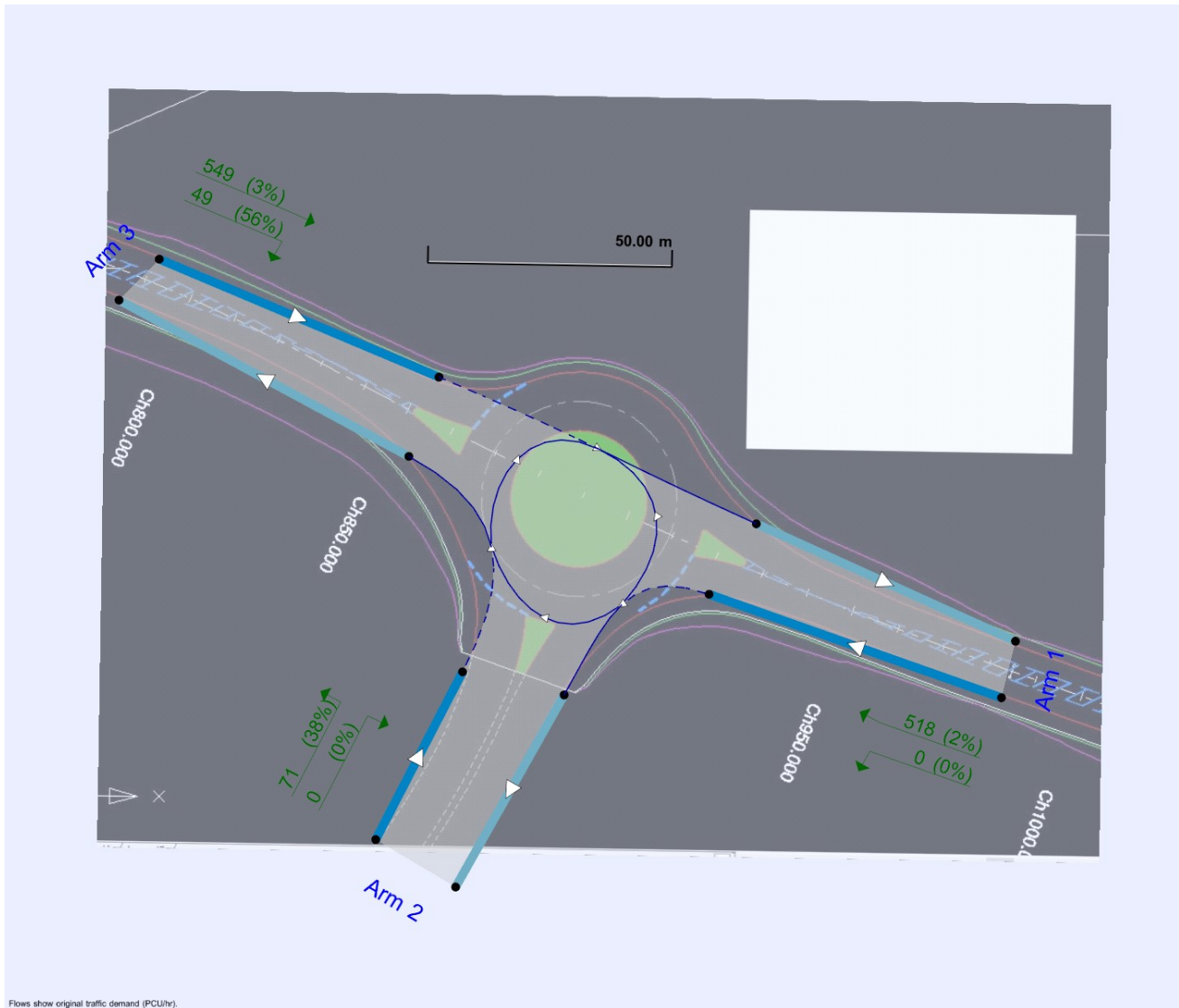
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	3.35	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	untitled	
2	untitled	
3	untitled	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.36	8.41	14.2	30.7	51.7	21.3	
2	3.50	3.50	0.0	41.7	51.7	21.4	
3	4.19	8.15	11.6	34.1	52.0	21.5	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.636	1816
2	0.508	1119
3	0.657	1935

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	560	100.000
2		ONE HOUR	✓	64	100.000
3		ONE HOUR	✓	568	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	1	2	3	
From	1	0	19	541
	2	0	0	64
	3	474	94	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	1	2	3	
From	1	0	0	5
	2	0	0	35
	3	6	31	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.35	3.33	0.6	A	514	771
2	0.09	6.51	0.1	A	59	88
3	0.32	3.01	0.5	A	521	782

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	422	105	71	1771	0.238	420	356	0.0	0.3	2.791	A
2	48	12	406	913	0.053	48	85	0.0	0.1	5.617	A
3	428	107	0	1935	0.221	426	454	0.0	0.3	2.608	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	503	126	84	1762	0.286	503	426	0.3	0.4	2.997	A
2	58	14	486	872	0.066	57	102	0.1	0.1	5.964	A
3	511	128	0	1935	0.264	510	543	0.3	0.4	2.765	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	617	154	103	1750	0.352	616	521	0.4	0.6	3.325	A
2	70	18	595	817	0.086	70	124	0.1	0.1	6.511	A
3	625	156	0	1935	0.323	625	665	0.4	0.5	3.004	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	617	154	103	1750	0.352	617	522	0.6	0.6	3.328	A
2	70	18	596	816	0.086	70	124	0.1	0.1	6.513	A
3	625	156	0	1935	0.323	625	666	0.5	0.5	3.007	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	503	126	85	1762	0.286	504	427	0.6	0.4	3.000	A
2	58	14	487	872	0.066	58	102	0.1	0.1	5.970	A
3	511	128	0	1935	0.264	511	545	0.5	0.4	2.767	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	422	105	71	1771	0.238	422	357	0.4	0.3	2.797	A
2	48	12	408	912	0.053	48	85	0.1	0.1	5.626	A
3	428	107	0	1935	0.221	428	456	0.4	0.3	2.616	A

2029 With Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	3.22	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	518	100.000
2		ONE HOUR	✓	71	100.000
3		ONE HOUR	✓	598	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	1	2	3	
From	1	0	0	518
	2	0	0	71
	3	549	49	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	1	2	3	
From	1	0	0	2
	2	0	0	38
	3	3	56	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.32	3.03	0.5	A	475	713
2	0.09	6.61	0.1	A	65	98
3	0.34	2.99	0.5	A	549	823

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	390	97	37	1792	0.218	389	412	0.0	0.3	2.613	A
2	53	13	389	922	0.058	53	37	0.0	0.1	5.720	A
3	450	113	0	1935	0.233	449	442	0.0	0.3	2.563	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	466	116	44	1788	0.260	465	493	0.3	0.4	2.776	A
2	64	16	465	883	0.072	64	44	0.1	0.1	6.066	A
3	538	134	0	1935	0.278	537	529	0.3	0.4	2.728	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	570	143	54	1782	0.320	570	604	0.4	0.5	3.028	A
2	78	20	570	830	0.094	78	54	0.1	0.1	6.610	A
3	658	165	0	1935	0.340	658	648	0.4	0.5	2.983	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	570	143	54	1782	0.320	570	604	0.5	0.5	3.030	A
2	78	20	570	829	0.094	78	54	0.1	0.1	6.612	A
3	658	165	0	1935	0.340	658	648	0.5	0.5	2.986	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	466	116	44	1788	0.260	466	494	0.5	0.4	2.780	A
2	64	16	466	882	0.072	64	44	0.1	0.1	6.071	A
3	538	134	0	1935	0.278	538	530	0.5	0.4	2.730	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	390	97	37	1792	0.218	390	414	0.4	0.3	2.620	A
2	53	13	390	921	0.058	54	37	0.1	0.1	5.728	A
3	450	113	0	1935	0.233	451	444	0.4	0.3	2.570	A

Junctions 9							
ARCADY 9 - Roundabout Module							
Version: 9.5.0.6896							
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Filename: Link Road South Rbt inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Link Road Southern Access rbt

Report generation date: 27/08/2020 09:36:37

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Arm 1	0.6	3.37	0.36	A	0.5	3.13	0.34	A
Arm 2	0.1	4.13	0.04	A	0.1	3.37	0.09	A
Arm 3	0.5	2.72	0.31	A	0.5	2.75	0.33	A
Arm 4	0.0	0.00	0.00	A	0.0	0.00	0.00	A

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

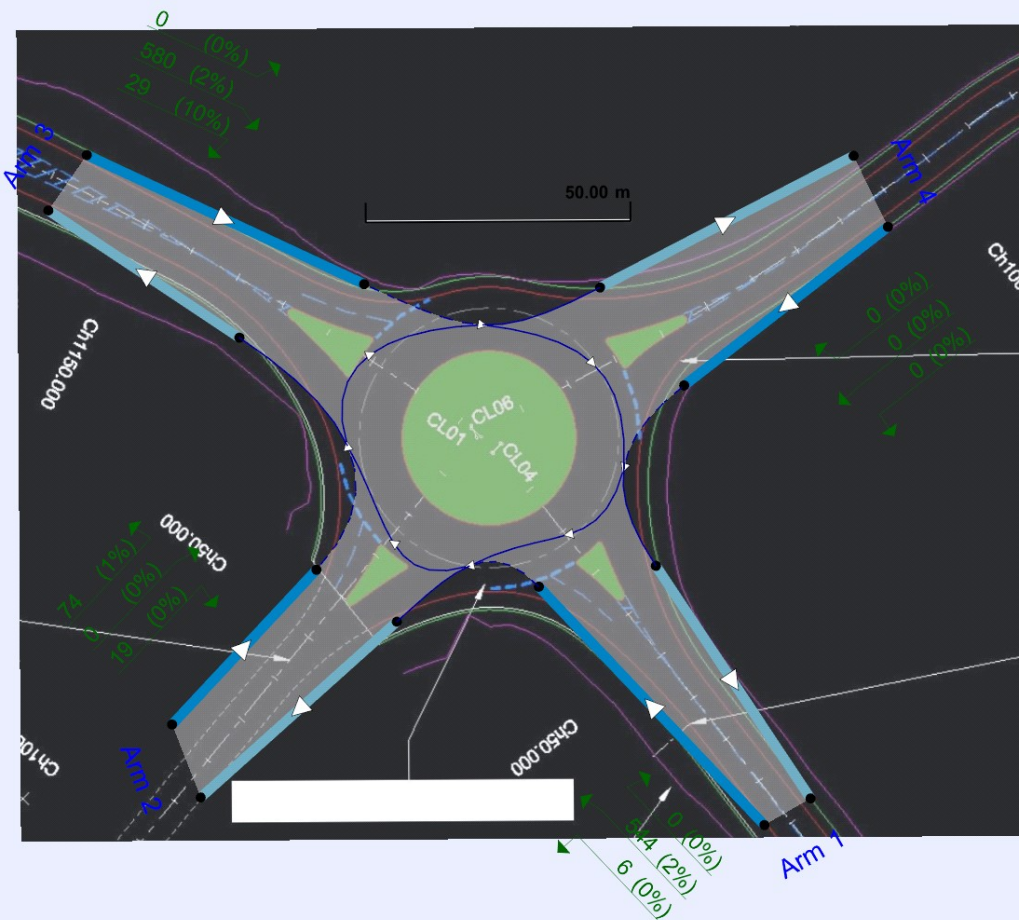
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



Flows show original traffic demand (PCU/hr).

The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	3.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	untitled	
2	untitled	
3	untitled	
4	untitled	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.69	8.54	11.8	31.8	56.7	28.0	
2	3.45	8.35	5.7	40.2	56.5	22.3	
3	4.81	6.90	23.4	36.2	56.7	25.4	
4	3.95	6.79	5.0	33.5	56.6	29.4	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.600	1798
2	0.557	1514
3	0.643	2023
4	0.552	1533

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	570	100.000
2		ONE HOUR	✓	40	100.000
3		ONE HOUR	✓	570	100.000
4		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	0	18	552	0
	2	3	0	37	0
	3	476	94	0	0
	4	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	4	0
	2	0	0	33	0
	3	4	13	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.36	3.37	0.6	A	523	785
2	0.04	4.13	0.1	A	37	55
3	0.31	2.72	0.5	A	523	785
4	0.00	0.00	0.0	A	0	0

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	429	107	71	1756	0.244	428	360	0.0	0.3	2.813	A
2	30	8	414	1283	0.023	30	84	0.0	0.0	3.728	A
3	429	107	2	2022	0.212	428	442	0.0	0.3	2.379	A
4	0	0	430	1296	0.000	0	0	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	512	128	84	1747	0.293	512	430	0.3	0.4	3.027	A
2	36	9	496	1237	0.029	36	101	0.0	0.0	3.888	A
3	512	128	3	2022	0.253	512	529	0.3	0.4	2.513	A
4	0	0	515	1249	0.000	0	0	0.0	0.0	0.000	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	628	157	103	1736	0.362	627	527	0.4	0.6	3.369	A
2	44	11	607	1175	0.037	44	123	0.0	0.1	4.129	A
3	628	157	3	2021	0.310	627	648	0.4	0.5	2.721	A
4	0	0	630	1185	0.000	0	0	0.0	0.0	0.000	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	628	157	103	1736	0.362	628	527	0.6	0.6	3.372	A
2	44	11	608	1175	0.037	44	123	0.1	0.1	4.130	A
3	628	157	3	2021	0.310	628	648	0.5	0.5	2.721	A
4	0	0	631	1185	0.000	0	0	0.0	0.0	0.000	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	512	128	85	1747	0.293	513	431	0.6	0.4	3.032	A
2	36	9	497	1237	0.029	36	101	0.1	0.0	3.892	A
3	512	128	3	2022	0.253	513	530	0.5	0.4	2.516	A
4	0	0	516	1249	0.000	0	0	0.0	0.0	0.000	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	429	107	71	1756	0.244	430	361	0.4	0.3	2.822	A
2	30	8	416	1282	0.023	30	84	0.0	0.0	3.734	A
3	429	107	2	2022	0.212	429	444	0.4	0.3	2.384	A
4	0	0	432	1295	0.000	0	0	0.0	0.0	0.000	A

2029 With Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	2.96	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	550	100.000
2		ONE HOUR	✓	93	100.000
3		ONE HOUR	✓	609	100.000
4		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1	2	3	4
From	1	0	6	544	0
	2	19	0	74	0
	3	580	29	0	0
	4	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1	2	3	4
From	1	0	0	2	0
	2	0	0	1	0
	3	2	10	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.34	3.13	0.5	A	505	757
2	0.09	3.37	0.1	A	85	128
3	0.33	2.75	0.5	A	559	838
4	0.00	0.00	0.0	A	0	0

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	414	104	22	1785	0.232	413	450	0.0	0.3	2.673	A
2	70	18	408	1286	0.054	70	26	0.0	0.1	2.982	A
3	458	115	14	2014	0.228	457	464	0.0	0.3	2.366	A
4	0	0	472	1273	0.000	0	0	0.0	0.0	0.000	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	494	124	26	1782	0.277	494	538	0.3	0.4	2.849	A
2	84	21	489	1241	0.067	84	31	0.1	0.1	3.133	A
3	547	137	17	2012	0.272	547	555	0.3	0.4	2.514	A
4	0	0	564	1222	0.000	0	0	0.0	0.0	0.000	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	606	151	32	1779	0.340	605	659	0.4	0.5	3.125	A
2	102	26	598	1180	0.087	102	39	0.1	0.1	3.365	A
3	671	168	21	2010	0.334	670	680	0.4	0.5	2.750	A
4	0	0	691	1152	0.000	0	0	0.0	0.0	0.000	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	606	151	32	1779	0.340	606	660	0.5	0.5	3.128	A
2	102	26	599	1180	0.087	102	39	0.1	0.1	3.366	A
3	671	168	21	2010	0.334	671	680	0.5	0.5	2.750	A
4	0	0	691	1152	0.000	0	0	0.0	0.0	0.000	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	494	124	26	1782	0.277	495	539	0.5	0.4	2.854	A
2	84	21	490	1241	0.067	84	31	0.1	0.1	3.137	A
3	547	137	17	2012	0.272	548	556	0.5	0.4	2.518	A
4	0	0	565	1221	0.000	0	0	0.0	0.0	0.000	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	414	104	22	1785	0.232	414	451	0.4	0.3	2.680	A
2	70	18	410	1285	0.054	70	26	0.1	0.1	2.985	A
3	458	115	14	2014	0.228	459	466	0.4	0.3	2.371	A
4	0	0	473	1272	0.000	0	0	0.0	0.0	0.000	A

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Link Rd_Sheff Rd inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Link Road_Sheffield Road

Report generation date: 27/08/2020 09:39:37

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.2	7.94	0.20	A	0.2	7.42	0.15	A
Stream B-A	0.1	13.99	0.09	B	0.0	14.81	0.02	B
Stream C-AB	0.1	7.22	0.11	A	0.3	8.08	0.21	A

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

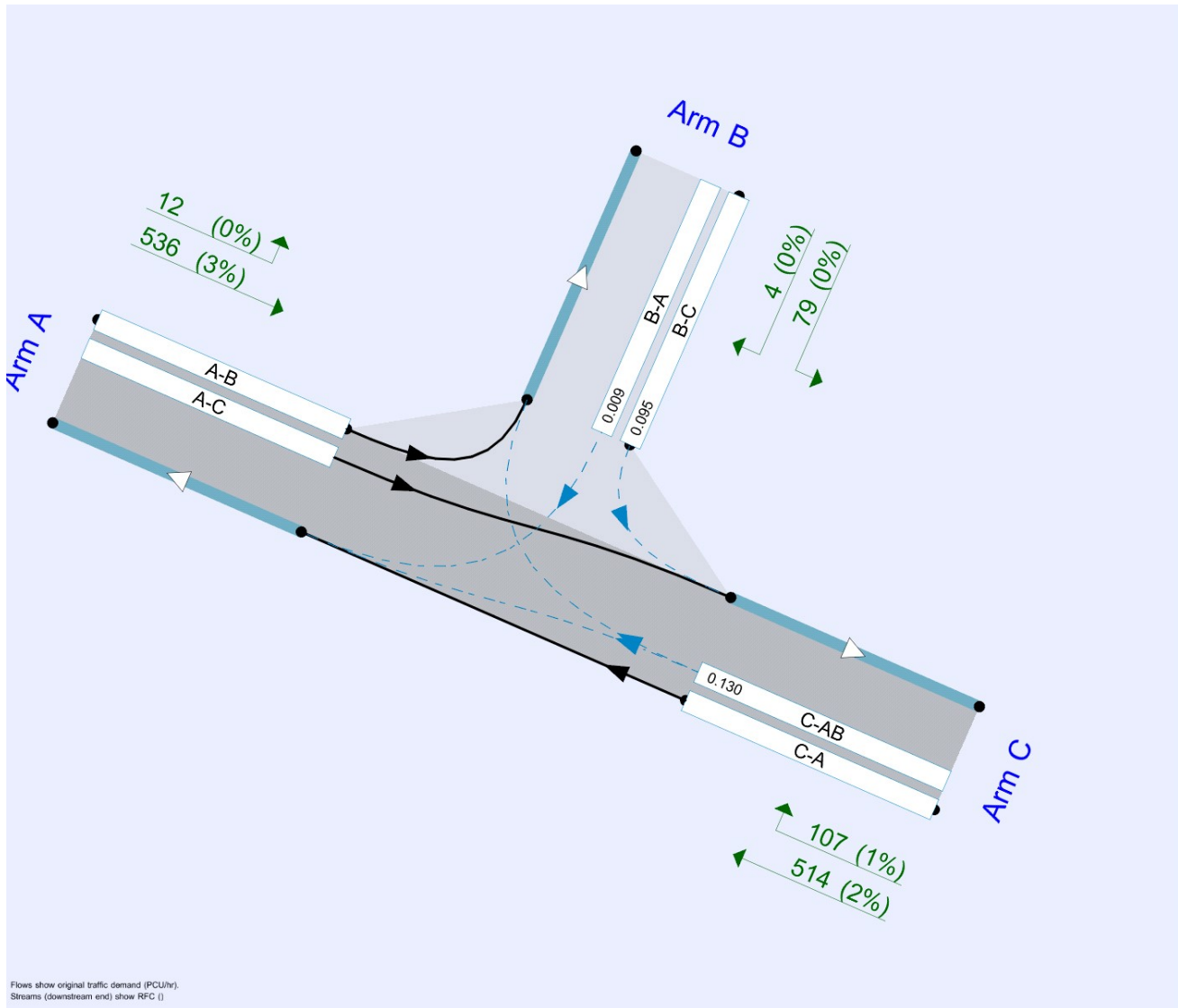
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		1.31	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	115.0	✓	7.00

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	10.00	7.80	4.90	3.80	3.80	✓	2.00	38	31

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	500	0.087	0.220	0.139	0.315
1	B-C	728	0.107	0.270	-	-
1	C-B	731	0.271	0.271	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	474	100.000
B		ONE HOUR	✓	125	100.000
C		ONE HOUR	✓	597	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	4	470
	B	23	0	102
	C	537	60	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	6
	B	0	0	2
	C	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.20	7.94	0.2	A	94	140
B-A	0.09	13.99	0.1	B	21	32
C-AB	0.11	7.22	0.1	A	55	83
C-A					493	739
A-B					4	6
A-C					431	647

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	77	19	625	0.123	76	0.0	0.1	6.686	A
B-A	17	4	352	0.049	17	0.0	0.1	10.754	B
C-AB	45	11	634	0.071	45	0.0	0.1	6.408	A
C-A	404	101			404				
A-B	3	0.75			3				
A-C	354	88			354				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	92	23	604	0.152	92	0.1	0.2	7.163	A
B-A	21	5	323	0.064	21	0.1	0.1	11.914	B
C-AB	54	13	616	0.088	54	0.1	0.1	6.727	A
C-A	483	121			483				
A-B	4	0.90			4				
A-C	423	106			423				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	28	575	0.195	112	0.2	0.2	7.929	A
B-A	25	6	283	0.090	25	0.1	0.1	13.977	B
C-AB	66	17	590	0.112	66	0.1	0.1	7.213	A
C-A	591	148			591				
A-B	4	1			4				
A-C	517	129			517				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	28	575	0.195	112	0.2	0.2	7.939	A
B-A	25	6	283	0.090	25	0.1	0.1	13.990	B
C-AB	66	17	590	0.112	66	0.1	0.1	7.216	A
C-A	591	148			591				
A-B	4	1			4				
A-C	517	129			517				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	92	23	604	0.152	92	0.2	0.2	7.177	A
B-A	21	5	323	0.064	21	0.1	0.1	11.931	B
C-AB	54	13	616	0.088	54	0.1	0.1	6.733	A
C-A	483	121			483				
A-B	4	0.90			4				
A-C	423	106			423				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	77	19	625	0.123	77	0.2	0.1	6.708	A
B-A	17	4	352	0.049	17	0.1	0.1	10.776	B
C-AB	45	11	634	0.071	45	0.1	0.1	6.417	A
C-A	404	101			404				
A-B	3	0.75			3				
A-C	354	88			354				

2029 With 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		1.21	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	548	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	621	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	12	536
	B	4	0	79
	C	514	107	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	3
	B	0	0	0
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.15	7.42	0.2	A	72	109
B-A	0.02	14.81	0.0	B	4	6
C-AB	0.21	8.08	0.3	A	98	147
C-A					472	707
A-B					11	17
A-C					492	738

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	59	15	624	0.095	59	0.0	0.1	6.364	A
B-A	3	0.75	324	0.009	3	0.0	0.0	11.210	B
C-AB	81	20	619	0.130	80	0.0	0.1	6.733	A
C-A	387	97			387				
A-B	9	2			9				
A-C	404	101			404				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	71	18	602	0.118	71	0.1	0.1	6.771	A
B-A	4	0.90	292	0.012	4	0.0	0.0	12.488	B
C-AB	96	24	598	0.161	96	0.1	0.2	7.246	A
C-A	462	116			462				
A-B	11	3			11				
A-C	482	120			482				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	87	22	572	0.152	87	0.1	0.2	7.421	A
B-A	4	1	247	0.018	4	0.0	0.0	14.808	B
C-AB	118	29	568	0.208	118	0.2	0.3	8.072	A
C-A	566	141			566				
A-B	13	3			13				
A-C	590	148			590				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	87	22	572	0.152	87	0.2	0.2	7.424	A
B-A	4	1	247	0.018	4	0.0	0.0	14.813	B
C-AB	118	29	568	0.208	118	0.3	0.3	8.081	A
C-A	566	141			566				
A-B	13	3			13				
A-C	590	148			590				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	71	18	602	0.118	71	0.2	0.1	6.781	A
B-A	4	0.90	292	0.012	4	0.0	0.0	12.498	B
C-AB	96	24	598	0.161	96	0.3	0.2	7.257	A
C-A	462	116			462				
A-B	11	3			11				
A-C	482	120			482				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	59	15	624	0.095	60	0.1	0.1	6.377	A
B-A	3	0.75	324	0.009	3	0.0	0.0	11.221	B
C-AB	81	20	619	0.130	81	0.2	0.2	6.751	A
C-A	387	97			387				
A-B	9	2			9				
A-C	404	101			404				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Link Road_Tankersley Lane inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Link Road_Tankersley Lane

Report generation date: 27/08/2020 08:58:43

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.8	13.67	0.44	B	1.0	14.58	0.49	B
Stream B-A	0.8	29.24	0.46	D	0.9	34.43	0.49	D
Stream C-AB	0.5	9.98	0.35	A	0.9	11.92	0.47	B

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

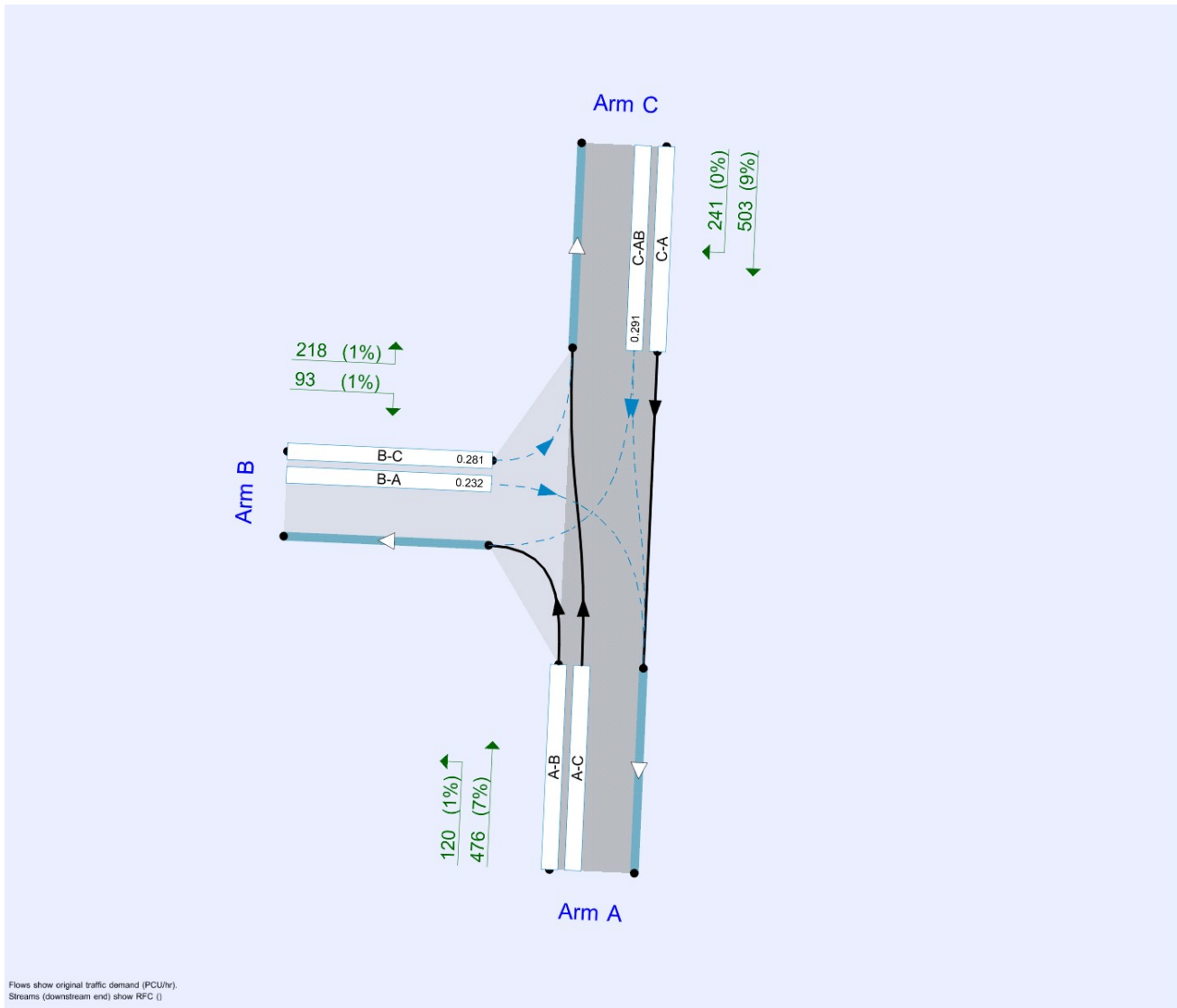
File summary

File Description

Title	
Location	
Site number	
Date	23/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		4.65	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	140.0	✓	7.00

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	10.00	9.00	5.80	5.20	5.00	✓	3.00	48	35

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	503	0.088	0.222	0.139	0.317
1	B-C	720	0.105	0.267	-	-
1	C-B	748	0.277	0.277	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	603	100.000
B		ONE HOUR	✓	289	100.000
C		ONE HOUR	✓	660	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	94	509
	B	96	0	193
	C	482	178	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	1	10
	B	2	0	4
	C	12	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.44	13.67	0.8	B	177	266
B-A	0.46	29.24	0.8	D	88	132
C-AB	0.35	9.98	0.5	A	163	245
C-A					442	663
A-B					86	129
A-C					467	701

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	145	36	575	0.253	144	0.0	0.3	8.656	A
B-A	72	18	319	0.227	71	0.0	0.3	14.747	B
C-AB	134	34	622	0.215	133	0.0	0.3	7.492	A
C-A	363	91			363				
A-B	71	18			71				
A-C	383	96			383				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	174	43	542	0.320	173	0.3	0.5	10.134	B
B-A	86	22	283	0.305	86	0.3	0.4	18.601	C
C-AB	160	40	598	0.268	160	0.3	0.4	8.379	A
C-A	433	108			433				
A-B	85	21			85				
A-C	458	114			458				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	212	53	488	0.436	211	0.5	0.8	13.478	B
B-A	106	26	231	0.457	104	0.4	0.8	28.585	D
C-AB	196	49	564	0.348	195	0.4	0.5	9.943	A
C-A	531	133			531				
A-B	103	26			103				
A-C	560	140			560				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	212	53	486	0.437	212	0.8	0.8	13.669	B
B-A	106	26	231	0.458	106	0.8	0.8	29.239	D
C-AB	196	49	564	0.348	196	0.5	0.5	9.978	A
C-A	531	133			531				
A-B	103	26			103				
A-C	560	140			560				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	174	43	540	0.321	175	0.8	0.5	10.279	B
B-A	86	22	282	0.306	88	0.8	0.5	19.006	C
C-AB	160	40	598	0.268	161	0.5	0.4	8.417	A
C-A	433	108			433				
A-B	85	21			85				
A-C	458	114			458				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	145	36	574	0.253	146	0.5	0.4	8.764	A
B-A	72	18	319	0.227	73	0.5	0.3	14.973	B
C-AB	134	34	622	0.215	134	0.4	0.3	7.539	A
C-A	363	91			363				
A-B	71	18			71				
A-C	383	96			383				

2029 With 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		5.61	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	596	100.000
B		ONE HOUR	✓	311	100.000
C		ONE HOUR	✓	744	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	120	476
	B	93	0	218
	C	503	241	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	7
	B	1	0	1
	C	9	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.49	14.58	1.0	B	200	300
B-A	0.49	34.43	0.9	D	85	128
C-AB	0.47	11.92	0.9	B	222	332
C-A					461	692
A-B					110	165
A-C					437	655

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	164	41	584	0.281	163	0.0	0.4	8.594	A
B-A	70	18	302	0.232	69	0.0	0.3	15.508	C
C-AB	181	45	623	0.291	180	0.0	0.4	8.087	A
C-A	379	95			379				
A-B	90	23			90				
A-C	358	90			358				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	196	49	550	0.356	195	0.4	0.5	10.231	B
B-A	84	21	263	0.318	83	0.3	0.5	20.101	C
C-AB	217	54	600	0.362	216	0.4	0.6	9.374	A
C-A	452	113			452				
A-B	108	27			108				
A-C	428	107			428				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	240	60	492	0.488	238	0.5	0.9	14.280	B
B-A	102	26	208	0.492	101	0.5	0.9	33.295	D
C-AB	267	67	569	0.469	265	0.6	0.9	11.829	B
C-A	553	138			553				
A-B	132	33			132				
A-C	524	131			524				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	240	60	489	0.491	240	0.9	1.0	14.583	B
B-A	102	26	208	0.493	102	0.9	0.9	34.431	D
C-AB	267	67	569	0.469	267	0.9	0.9	11.919	B
C-A	553	138			553				
A-B	132	33			132				
A-C	524	131			524				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	196	49	548	0.358	198	1.0	0.6	10.426	B
B-A	84	21	263	0.318	85	0.9	0.5	20.695	C
C-AB	217	54	600	0.361	218	0.9	0.6	9.463	A
C-A	452	113			452				
A-B	108	27			108				
A-C	428	107			428				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	164	41	583	0.282	165	0.6	0.4	8.718	A
B-A	70	18	302	0.232	71	0.5	0.3	15.788	C
C-AB	181	45	623	0.291	182	0.6	0.4	8.170	A
C-A	379	95			379				
A-B	90	23			90				
A-C	358	90			358				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Plot 5 Link Road Access inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Plot 5 Access

Report generation date: 27/08/2020 14:18:12

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.0	9.31	0.00	A	0.0	7.20	0.01	A
Stream B-A	0.0	11.53	0.02	B	0.0	11.97	0.04	B
Stream C-AB	0.0	6.55	0.01	A	0.0	6.61	0.00	A

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

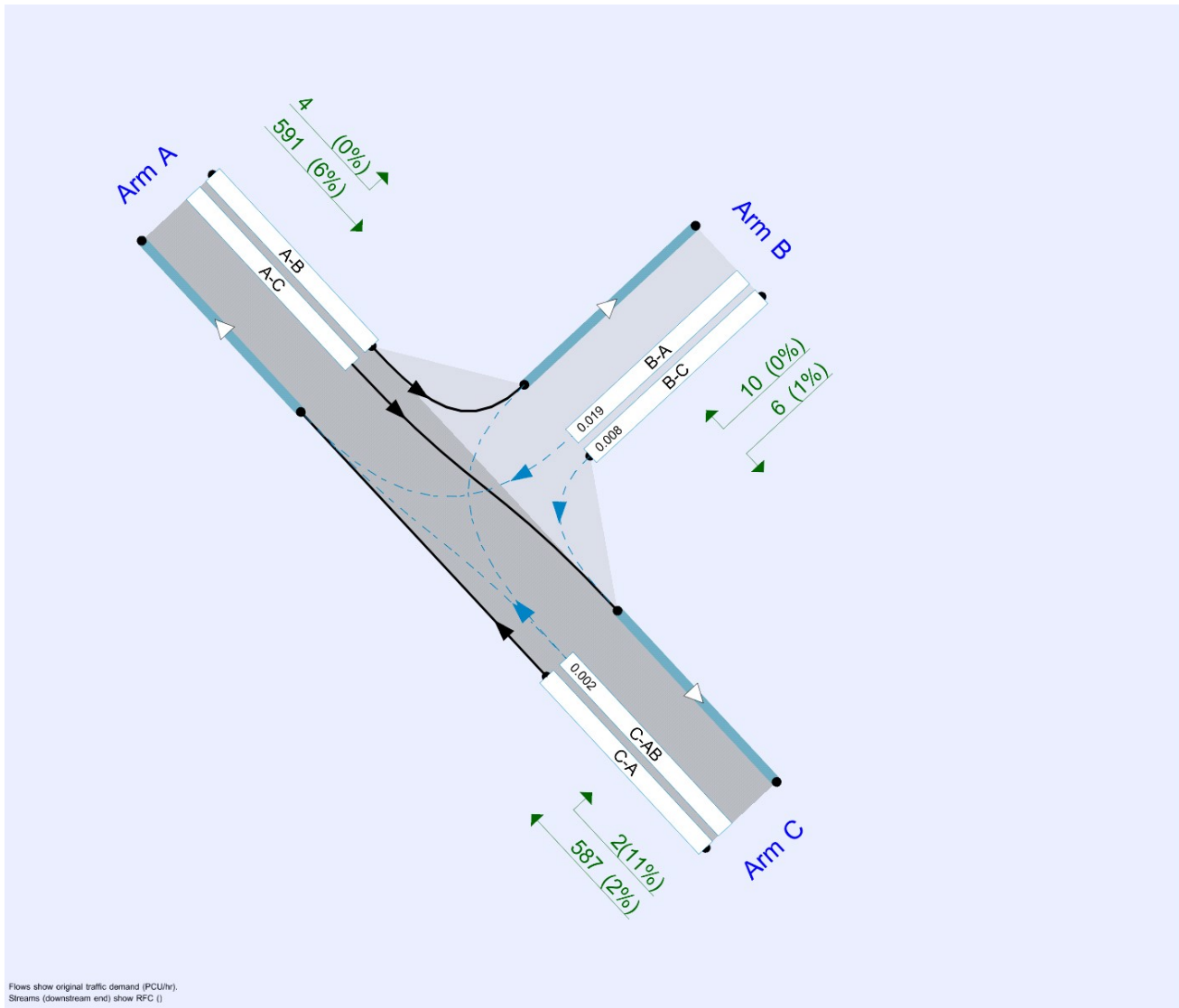
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZY\Modelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		0.10	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	220.0	✓	4.00

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	10.00	8.30	4.60	3.60	3.60	✓	1.00	44	54

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	593	0.103	0.261	0.164	0.373
1	B-C	671	0.098	0.249	-	-
1	C-B	801	0.297	0.297	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	578	100.000
B		ONE HOUR	✓	7	100.000
C		ONE HOUR	✓	605	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	12	566
	B	5	0	2
	C	598	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	9
	B	0	0	32
	C	3	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.00	9.31	0.0	A	2	3
B-A	0.02	11.53	0.0	B	5	7
C-AB	0.01	6.55	0.0	A	6	10
C-A					549	823
A-B					11	17
A-C					519	779

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	0.38	563	0.003	1	0.0	0.0	8.459	A
B-A	4	0.94	405	0.009	4	0.0	0.0	8.979	A
C-AB	5	1	671	0.008	5	0.0	0.0	5.943	A
C-A	450	113			450				
A-B	9	2			9				
A-C	426	107			426				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	0.45	542	0.003	2	0.0	0.0	8.795	A
B-A	4	1	368	0.012	4	0.0	0.0	9.899	A
C-AB	6	2	646	0.010	6	0.0	0.0	6.185	A
C-A	538	134			538				
A-B	11	3			11				
A-C	509	127			509				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	0.55	513	0.004	2	0.0	0.0	9.306	A
B-A	6	1	318	0.017	5	0.0	0.0	11.531	B
C-AB	8	2	612	0.013	8	0.0	0.0	6.554	A
C-A	658	165			658				
A-B	13	3			13				
A-C	623	156			623				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	0.55	513	0.004	2	0.0	0.0	9.307	A
B-A	6	1	318	0.017	6	0.0	0.0	11.530	B
C-AB	8	2	612	0.013	8	0.0	0.0	6.554	A
C-A	658	165			658				
A-B	13	3			13				
A-C	623	156			623				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	0.45	542	0.003	2	0.0	0.0	8.798	A
B-A	4	1	368	0.012	5	0.0	0.0	9.901	A
C-AB	6	2	646	0.010	6	0.0	0.0	6.185	A
C-A	538	134			538				
A-B	11	3			11				
A-C	509	127			509				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	0.38	563	0.003	2	0.0	0.0	8.462	A
B-A	4	0.94	405	0.009	4	0.0	0.0	8.982	A
C-AB	5	1	671	0.008	5	0.0	0.0	5.945	A
C-A	450	113			450				
A-B	9	2			9				
A-C	426	107			426				

2029 With 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		0.15	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	595	100.000
B		ONE HOUR	✓	16	100.000
C		ONE HOUR	✓	589	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	4	591
	B	10	0	6
	C	587	2	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	6
	B	0	0	1
	C	2	11	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.20	0.0	A	6	8
B-A	0.04	11.97	0.0	B	9	14
C-AB	0.00	6.61	0.0	A	2	3
C-A					539	808
A-B					4	6
A-C					542	813

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	565	0.008	4	0.0	0.0	6.483	A
B-A	8	2	398	0.019	7	0.0	0.0	9.211	A
C-AB	2	0.38	668	0.002	1	0.0	0.0	5.997	A
C-A	442	110			442				
A-B	3	0.75			3				
A-C	445	111			445				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	543	0.010	5	0.0	0.0	6.767	A
B-A	9	2	362	0.025	9	0.0	0.0	10.198	B
C-AB	2	0.45	642	0.003	2	0.0	0.0	6.242	A
C-A	528	132			528				
A-B	4	0.90			4				
A-C	531	133			531				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	511	0.013	7	0.0	0.0	7.204	A
B-A	11	3	312	0.035	11	0.0	0.0	11.969	B
C-AB	2	0.55	606	0.004	2	0.0	0.0	6.614	A
C-A	646	162			646				
A-B	4	1			4				
A-C	651	163			651				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	511	0.013	7	0.0	0.0	7.205	A
B-A	11	3	312	0.035	11	0.0	0.0	11.971	B
C-AB	2	0.55	606	0.004	2	0.0	0.0	6.614	A
C-A	646	162			646				
A-B	4	1			4				
A-C	651	163			651				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	543	0.010	5	0.0	0.0	6.771	A
B-A	9	2	362	0.025	9	0.0	0.0	10.199	B
C-AB	2	0.45	642	0.003	2	0.0	0.0	6.244	A
C-A	528	132			528				
A-B	4	0.90			4				
A-C	531	133			531				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	565	0.008	5	0.0	0.0	6.487	A
B-A	8	2	398	0.019	8	0.0	0.0	9.214	A
C-AB	2	0.38	668	0.002	2	0.0	0.0	5.997	A
C-A	442	110			442				
A-B	3	0.75			3				
A-C	445	111			445				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Plot 3 Tankersley Lane Access inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Plot 3 Sensitivity Test\Plot 3 Tankersley Lane Access

Report generation date: 27/08/2020 10:52:10

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	0.0	5.91	0.03	A	0.1	6.18	0.10	A
Stream B-A	0.0	9.48	0.00	A	0.0	9.59	0.02	A
Stream C-AB	0.1	6.38	0.12	A	0.0	5.66	0.03	A

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

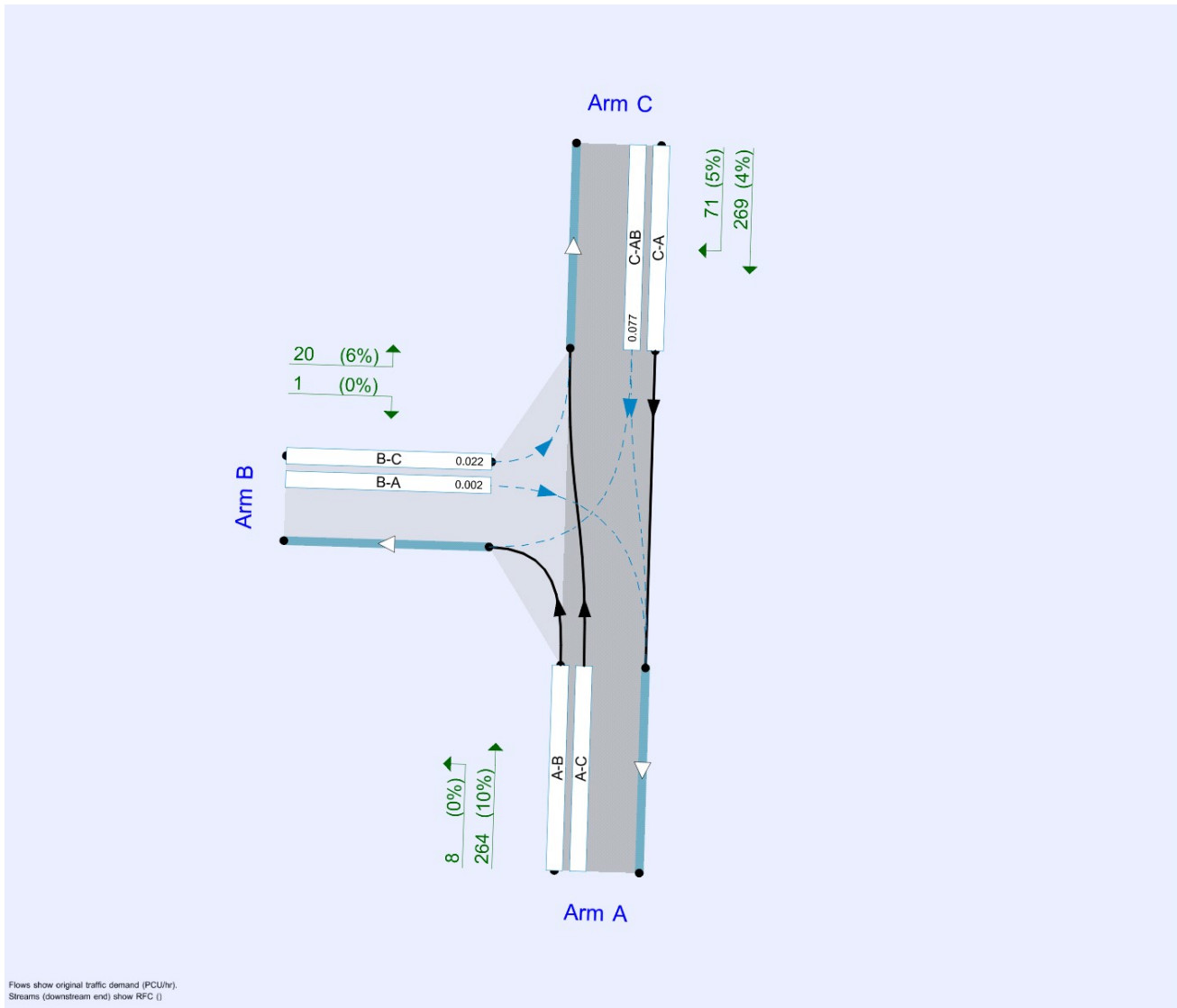
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZY\Modelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		0.92	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	150.0	✓	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	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	8.40	4.70	3.60	3.60	✓	1.00	45	60

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	515	0.090	0.227	0.143	0.324
1	B-C	750	0.110	0.278	-	-
1	C-B	754	0.280	0.280	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	272	100.000
B		ONE HOUR	✓	21	100.000
C		ONE HOUR	✓	340	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	8	264
	B	1	0	20
	C	269	71	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	10
	B	0	0	6
	C	4	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	5.91	0.0	A	18	28
B-A	0.00	9.48	0.0	A	0.92	1
C-AB	0.12	6.38	0.1	A	65	98
C-A					247	370
A-B					7	11
A-C					242	363

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	694	0.022	15	0.0	0.0	5.620	A
B-A	0.75	0.19	423	0.002	0.75	0.0	0.0	8.517	A
C-AB	53	13	697	0.077	53	0.0	0.1	5.867	A
C-A	203	51			203				
A-B	6	2			6				
A-C	199	50			199				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	683	0.026	18	0.0	0.0	5.737	A
B-A	0.90	0.22	405	0.002	0.90	0.0	0.0	8.898	A
C-AB	64	16	686	0.093	64	0.1	0.1	6.075	A
C-A	242	60			242				
A-B	7	2			7				
A-C	237	59			237				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	668	0.033	22	0.0	0.0	5.907	A
B-A	1	0.28	381	0.003	1	0.0	0.0	9.481	A
C-AB	78	20	671	0.117	78	0.1	0.1	6.377	A
C-A	296	74			296				
A-B	9	2			9				
A-C	291	73			291				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	668	0.033	22	0.0	0.0	5.907	A
B-A	1	0.28	381	0.003	1	0.0	0.0	9.482	A
C-AB	78	20	671	0.117	78	0.1	0.1	6.379	A
C-A	296	74			296				
A-B	9	2			9				
A-C	291	73			291				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	683	0.026	18	0.0	0.0	5.740	A
B-A	0.90	0.22	405	0.002	0.90	0.0	0.0	8.899	A
C-AB	64	16	686	0.093	64	0.1	0.1	6.079	A
C-A	242	60			242				
A-B	7	2			7				
A-C	237	59			237				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	694	0.022	15	0.0	0.0	5.623	A
B-A	0.75	0.19	423	0.002	0.75	0.0	0.0	8.521	A
C-AB	53	13	697	0.077	54	0.1	0.1	5.873	A
C-A	203	51			203				
A-B	6	2			6				
A-C	199	50			199				

2029 With 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		0.74	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	307	100.000
B		ONE HOUR	✓	68	100.000
C		ONE HOUR	✓	352	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	2	305
	B	8	0	60
	C	336	16	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	4
	B	0	0	0
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.10	6.18	0.1	A	55	83
B-A	0.02	9.59	0.0	A	7	11
C-AB	0.03	5.66	0.0	A	15	22
C-A					308	462
A-B					2	3
A-C					280	420

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	680	0.066	45	0.0	0.1	5.667	A
B-A	6	2	428	0.014	6	0.0	0.0	8.537	A
C-AB	12	3	690	0.017	12	0.0	0.0	5.364	A
C-A	253	63			253				
A-B	2	0.38			2				
A-C	230	57			230				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	54	13	667	0.081	54	0.1	0.1	5.873	A
B-A	7	2	409	0.018	7	0.0	0.0	8.949	A
C-AB	14	4	677	0.021	14	0.0	0.0	5.485	A
C-A	302	76			302				
A-B	2	0.45			2				
A-C	274	69			274				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	66	17	649	0.102	66	0.1	0.1	6.175	A
B-A	9	2	384	0.023	9	0.0	0.0	9.589	A
C-AB	18	4	660	0.027	18	0.0	0.0	5.661	A
C-A	370	92			370				
A-B	2	0.55			2				
A-C	336	84			336				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	66	17	649	0.102	66	0.1	0.1	6.175	A
B-A	9	2	384	0.023	9	0.0	0.0	9.589	A
C-AB	18	4	660	0.027	18	0.0	0.0	5.661	A
C-A	370	92			370				
A-B	2	0.55			2				
A-C	336	84			336				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	54	13	667	0.081	54	0.1	0.1	5.877	A
B-A	7	2	409	0.018	7	0.0	0.0	8.950	A
C-AB	14	4	677	0.021	14	0.0	0.0	5.487	A
C-A	302	76			302				
A-B	2	0.45			2				
A-C	274	69			274				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	680	0.066	45	0.1	0.1	5.676	A
B-A	6	2	428	0.014	6	0.0	0.0	8.541	A
C-AB	12	3	690	0.017	12	0.0	0.0	5.367	A
C-A	253	63			253				
A-B	2	0.38			2				
A-C	230	57			230				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: Link Road_Tankersley Lane Plot3 Sensitivity inc P4,5,6.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Plot 3 Sensitivity Test\Link Road_Tankersley Lane

Report generation date: 28/08/2020 09:32:51

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Stream B-C	1.0	15.71	0.49	C	1.8	23.44	0.65	C
Stream B-A	1.0	35.41	0.52	E	1.8	53.23	0.66	F
Stream C-AB	0.9	12.07	0.45	B	1.0	12.58	0.49	B

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

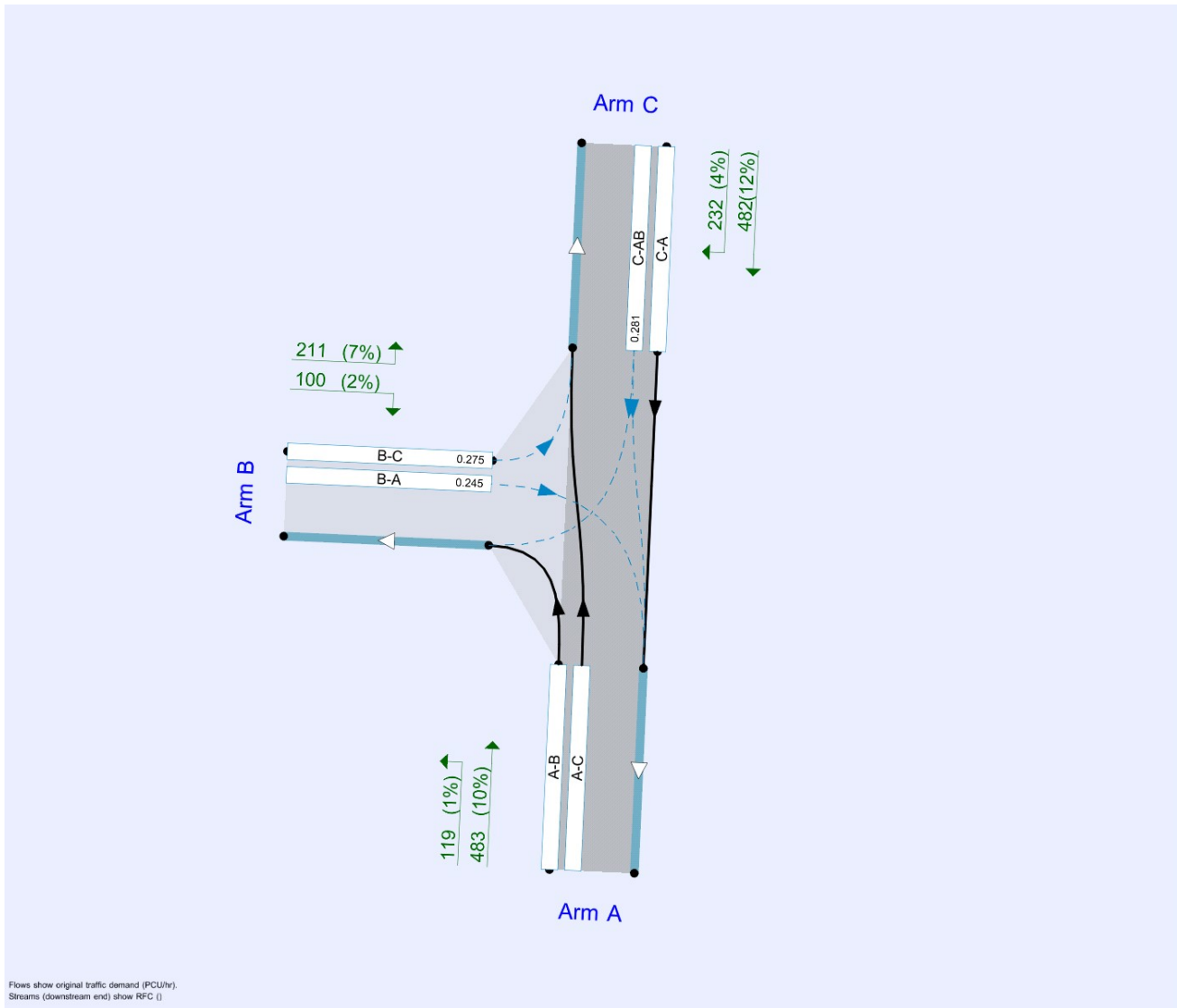
File summary

File Description

Title	
Location	
Site number	
Date	23/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With 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		5.94	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	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	140.0	✓	7.00

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	10.00	9.00	5.80	5.20	5.00	✓	3.00	48	35

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	502	0.087	0.221	0.139	0.316
1	B-C	722	0.106	0.267	-	-
1	C-B	748	0.277	0.277	-	-

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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	602	100.000
B		ONE HOUR	✓	311	100.000
C		ONE HOUR	✓	714	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	119	483
	B	100	0	211
	C	482	232	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	1	10
	B	2	0	7
	C	12	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.49	15.71	1.0	C	194	290
B-A	0.52	35.41	1.0	E	92	138
C-AB	0.45	12.07	0.9	B	213	320
C-A					442	663
A-B					109	164
A-C					443	665

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	159	40	577	0.275	157	0.0	0.4	9.144	A
B-A	75	19	308	0.245	74	0.0	0.3	15.638	C
C-AB	175	44	622	0.281	173	0.0	0.4	8.311	A
C-A	363	91			363				
A-B	90	22			90				
A-C	364	91			364				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	190	47	542	0.350	189	0.4	0.6	10.894	B
B-A	90	22	269	0.334	89	0.3	0.5	20.360	C
C-AB	209	52	598	0.349	208	0.4	0.5	9.585	A
C-A	433	108			433				
A-B	107	27			107				
A-C	434	109			434				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	232	58	480	0.484	231	0.6	1.0	15.344	C
B-A	110	28	214	0.515	108	0.5	1.0	34.111	D
C-AB	257	64	567	0.453	255	0.5	0.8	11.987	B
C-A	530	132			530				
A-B	131	33			131				
A-C	532	133			532				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	232	58	477	0.487	232	1.0	1.0	15.707	C
B-A	110	28	213	0.516	110	1.0	1.0	35.409	E
C-AB	257	64	567	0.453	257	0.8	0.9	12.075	B
C-A	530	132			530				
A-B	131	33			131				
A-C	532	133			532				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	190	47	539	0.352	191	1.0	0.6	11.116	B
B-A	90	22	269	0.335	92	1.0	0.5	21.026	C
C-AB	209	52	598	0.349	210	0.9	0.6	9.671	A
C-A	433	108			433				
A-B	107	27			107				
A-C	434	109			434				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	159	40	575	0.276	160	0.6	0.4	9.283	A
B-A	75	19	307	0.245	76	0.5	0.3	15.944	C
C-AB	175	44	622	0.281	175	0.6	0.4	8.390	A
C-A	363	91			363				
A-B	90	22			90				
A-C	364	91			364				

2029 With 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		9.00	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	597	100.000
B		ONE HOUR	✓	379	100.000
C		ONE HOUR	✓	756	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	126	471
	B	118	0	261
	C	503	253	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	1	8
	B	1	0	1
	C	9	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.65	23.44	1.8	C	239	359
B-A	0.66	53.23	1.8	F	108	162
C-AB	0.49	12.58	1.0	B	233	349
C-A					461	691
A-B					116	173
A-C					432	648

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	196	49	572	0.343	194	0.0	0.5	9.575	A
B-A	89	22	300	0.296	87	0.0	0.4	16.926	C
C-AB	191	48	623	0.306	189	0.0	0.4	8.335	A
C-A	379	95			379				
A-B	95	24			95				
A-C	355	89			355				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	235	59	532	0.441	234	0.5	0.8	12.128	B
B-A	106	27	260	0.409	105	0.4	0.7	23.363	C
C-AB	228	57	600	0.380	227	0.4	0.6	9.740	A
C-A	452	113			452				
A-B	113	28			113				
A-C	423	106			423				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	287	72	449	0.640	284	0.8	1.7	21.537	C
B-A	130	32	198	0.657	126	0.7	1.7	48.077	E
C-AB	281	70	570	0.493	279	0.6	1.0	12.462	B
C-A	552	138			552				
A-B	139	35			139				
A-C	519	130			519				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	287	72	441	0.652	287	1.7	1.8	23.442	C
B-A	130	32	196	0.661	129	1.7	1.8	53.234	F
C-AB	281	70	570	0.493	281	1.0	1.0	12.578	B
C-A	552	138			552				
A-B	139	35			139				
A-C	519	130			519				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	235	59	527	0.445	239	1.8	0.8	12.757	B
B-A	106	27	259	0.410	110	1.8	0.7	25.102	D
C-AB	228	57	600	0.380	229	1.0	0.6	9.851	A
C-A	452	113			452				
A-B	113	28			113				
A-C	423	106			423				

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	196	49	570	0.345	198	0.8	0.5	9.798	A
B-A	89	22	300	0.296	90	0.7	0.4	17.419	C
C-AB	191	48	623	0.306	191	0.6	0.5	8.429	A
C-A	379	95			379				
A-B	95	24			95				
A-C	355	89			355				

Junctions 9							
ARCADY 9 - Roundabout Module							
Version: 9.5.0.6896							
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Filename: Link Road South Rbt inc Hoy South.j9

Path: X:\Jobs\3560 Hoyland Commercial Land\Junction Modelling\Link Road Southern Access rbt

Report generation date: 27/08/2020 13:45:53

»2029 With Dev, AM

»2029 With Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 With Dev								
Arm 1	0.7	4.05	0.42	A	0.7	3.56	0.40	A
Arm 2	0.1	4.82	0.04	A	0.1	3.73	0.10	A
Arm 3	0.6	2.94	0.36	A	0.9	3.45	0.46	A
Arm 4	0.4	4.32	0.30	A	0.1	3.59	0.13	A

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

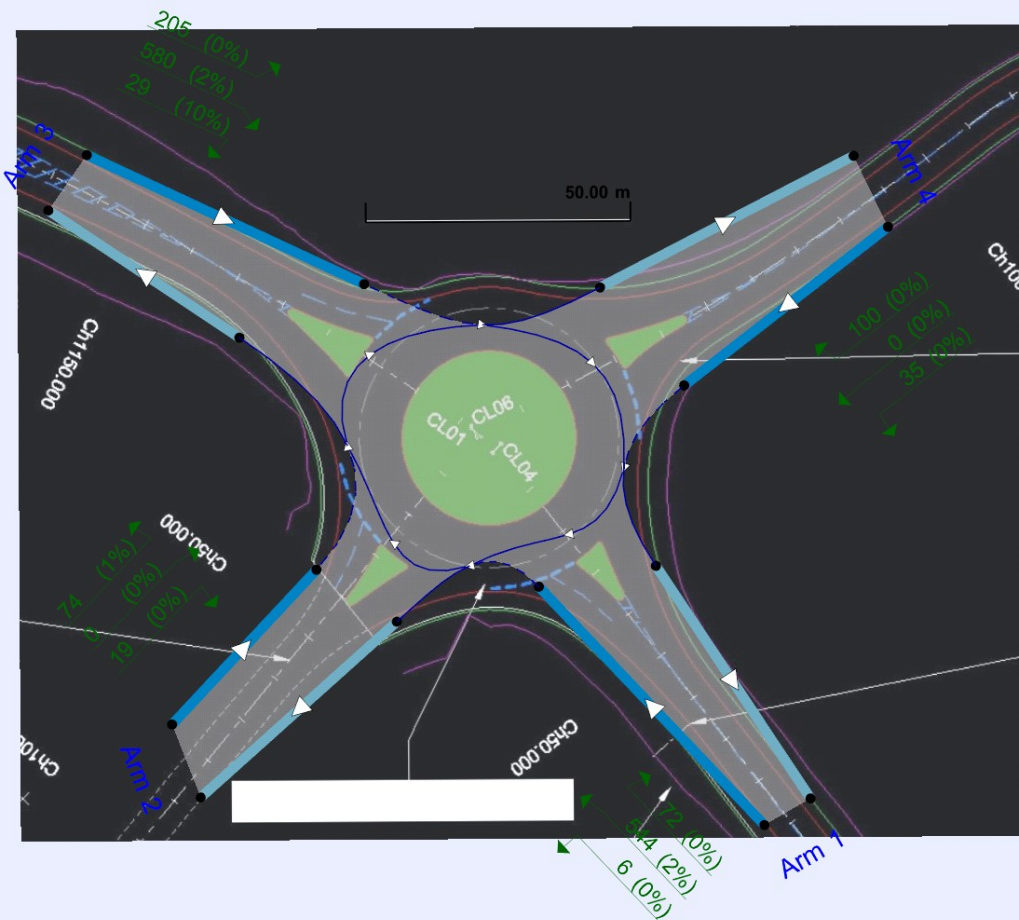
File summary

File Description

Title	
Location	
Site number	
Date	28/04/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WEEZYModelling
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



Flows show original traffic demand (PCU/hr).

The junction diagram reflects the last run of Junctions.

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	2029 With Dev	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Dev	PM	ONE HOUR	17:00	18:30	15	✓

Analysis Set Details

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

2029 With Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	3.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	untitled	
2	untitled	
3	untitled	
4	untitled	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.69	8.54	11.8	31.8	56.7	28.0	
2	3.45	8.35	5.7	40.2	56.5	22.3	
3	4.81	6.90	23.4	36.2	56.7	25.4	
4	3.95	6.79	5.0	33.5	56.6	29.4	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.600	1798
2	0.557	1514
3	0.643	2023
4	0.552	1533

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	599	100.000
2		ONE HOUR	✓	40	100.000
3		ONE HOUR	✓	653	100.000
4		ONE HOUR	✓	319	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	0	18	552	29
	2	3	0	37	0
	3	476	94	0	83
	4	83	0	236	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	4	0
	2	0	0	33	0
	3	4	13	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.42	4.05	0.7	A	550	824
2	0.04	4.82	0.1	A	37	55
3	0.36	2.94	0.6	A	599	899
4	0.30	4.32	0.4	A	293	439

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	451	113	248	1650	0.273	449	422	0.0	0.4	3.105	A
2	30	8	613	1172	0.026	30	84	0.0	0.0	4.090	A
3	492	123	24	2008	0.245	490	619	0.0	0.3	2.480	A
4	240	60	430	1296	0.185	239	84	0.0	0.2	3.404	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	538	135	296	1620	0.332	538	505	0.4	0.5	3.446	A
2	36	9	734	1105	0.033	36	101	0.0	0.0	4.370	A
3	587	147	29	2005	0.293	587	741	0.3	0.4	2.657	A
4	287	72	515	1249	0.230	286	101	0.2	0.3	3.739	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	660	165	363	1580	0.417	659	618	0.5	0.7	4.044	A
2	44	11	898	1013	0.043	44	123	0.0	0.1	4.820	A
3	719	180	35	2001	0.359	718	907	0.4	0.6	2.936	A
4	351	88	630	1185	0.296	351	123	0.3	0.4	4.310	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	660	165	363	1580	0.417	659	619	0.7	0.7	4.053	A
2	44	11	900	1013	0.043	44	123	0.1	0.1	4.823	A
3	719	180	35	2001	0.359	719	908	0.6	0.6	2.939	A
4	351	88	631	1185	0.296	351	123	0.4	0.4	4.317	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	538	135	297	1620	0.332	539	506	0.7	0.5	3.458	A
2	36	9	736	1104	0.033	36	101	0.1	0.0	4.375	A
3	587	147	29	2005	0.293	588	743	0.6	0.4	2.659	A
4	287	72	516	1249	0.230	287	101	0.4	0.3	3.745	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	451	113	249	1649	0.273	451	423	0.5	0.4	3.119	A
2	30	8	616	1171	0.026	30	84	0.0	0.0	4.096	A
3	492	123	24	2008	0.245	492	622	0.4	0.3	2.487	A
4	240	60	432	1295	0.185	240	84	0.3	0.2	3.416	A

2029 With Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	3.52	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	2029 With 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	622	100.000
2		ONE HOUR	✓	93	100.000
3		ONE HOUR	✓	814	100.000
4		ONE HOUR	✓	135	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	0	6	544	72
	2	19	0	74	0
	3	580	29	0	205
	4	35	0	100	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	2	0
	2	0	0	1	0
	3	2	10	0	0
	4	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.40	3.56	0.7	A	571	856
2	0.10	3.73	0.1	A	85	128
3	0.46	3.45	0.9	A	747	1120
4	0.13	3.59	0.1	A	124	186

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	468	117	97	1740	0.269	467	476	0.0	0.4	2.875	A
2	70	18	537	1214	0.058	70	26	0.0	0.1	3.170	A
3	613	153	68	1979	0.310	611	539	0.0	0.5	2.673	A
4	102	25	471	1273	0.080	101	208	0.0	0.1	3.072	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	559	140	116	1729	0.323	559	570	0.4	0.5	3.131	A
2	84	21	643	1155	0.072	84	31	0.1	0.1	3.384	A
3	732	183	82	1971	0.371	731	645	0.5	0.6	2.953	A
4	121	30	564	1222	0.099	121	249	0.1	0.1	3.270	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	685	171	142	1713	0.400	684	697	0.5	0.7	3.558	A
2	102	26	787	1075	0.095	102	38	0.1	0.1	3.729	A
3	896	224	100	1959	0.458	895	790	0.6	0.9	3.440	A
4	149	37	691	1152	0.129	148	305	0.1	0.1	3.586	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	685	171	142	1713	0.400	685	698	0.7	0.7	3.561	A
2	102	26	788	1075	0.095	102	39	0.1	0.1	3.731	A
3	896	224	100	1959	0.458	896	791	0.9	0.9	3.446	A
4	149	37	691	1152	0.129	149	305	0.1	0.1	3.588	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	559	140	116	1728	0.324	560	571	0.7	0.5	3.135	A
2	84	21	645	1155	0.072	84	32	0.1	0.1	3.390	A
3	732	183	82	1971	0.371	733	646	0.9	0.6	2.960	A
4	121	30	565	1221	0.099	122	249	0.1	0.1	3.275	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	468	117	97	1740	0.269	469	478	0.5	0.4	2.884	A
2	70	18	540	1213	0.058	70	26	0.1	0.1	3.174	A
3	613	153	69	1979	0.310	613	541	0.6	0.5	2.684	A
4	102	25	473	1272	0.080	102	209	0.1	0.1	3.075	A

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