

S|C|P

APPENDIX P

NOTES

REVISIONS	
REV	DESCRIPTION
-	-
-	-

DATE

BY

-

-

SCP

Transportation Planning : Infrastructure Design

Colwyn Chambers, 19 York Street, Manchester, M2 3BA, Tel 0161 832 4400

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Client Name:

Project Title:

RUTHIN ROAD, WREXHAM

Drawing Title:

A525 RUTHIN ROAD / RUABON ROAD JUNCTION MEASUREMENTS

Drawn By:

OP

Date:

06.02.2024

Checked:

LB

Scale:

1:500 @ A3

Status:

PLANNING

Approved/Unapproved:

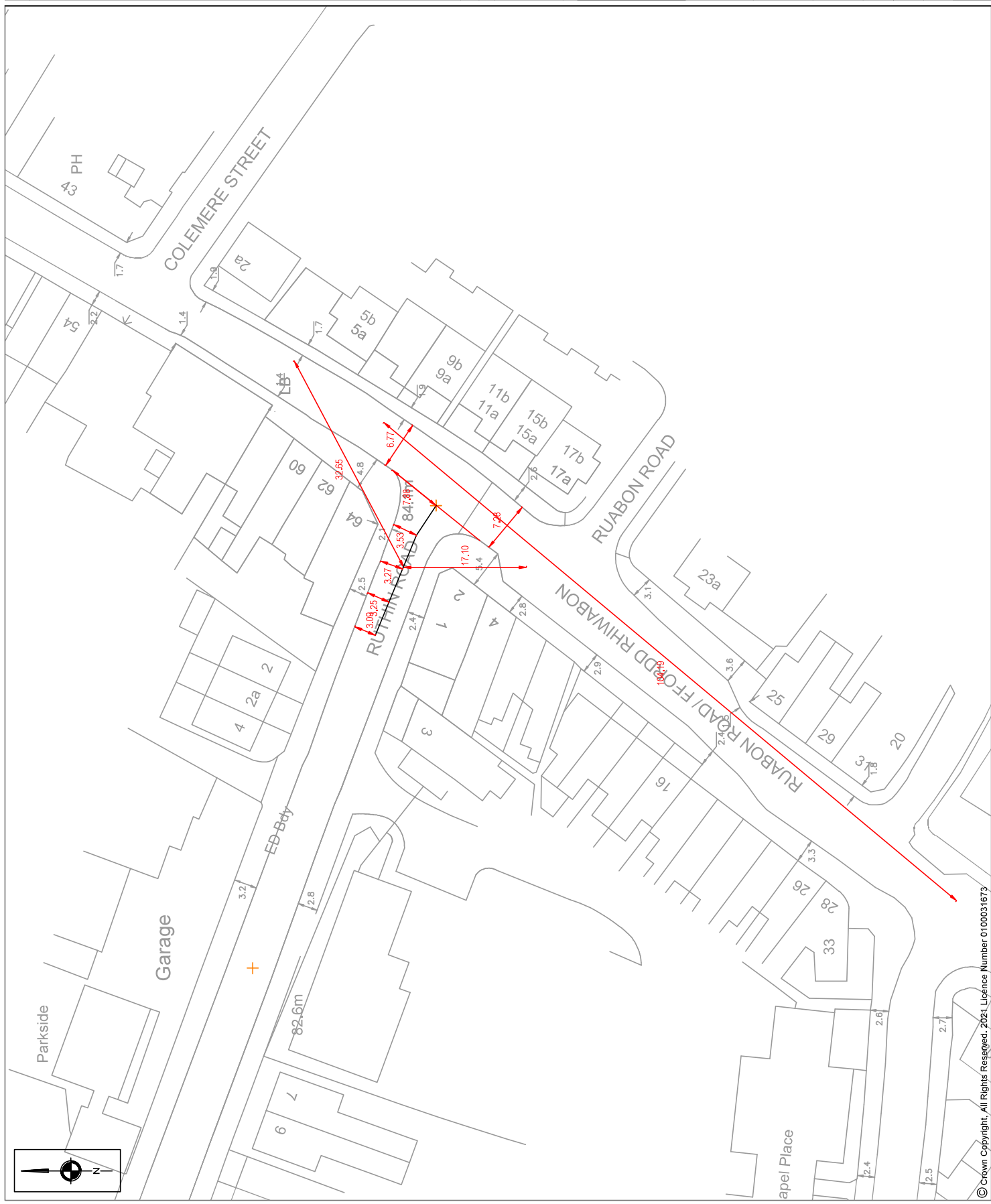
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Drawing No.

SCP/210187/D26

Rev.

-



Junctions 9										
PICADY 9 - Priority Intersection Module										
Version: 9.5.2.1013 © Copyright TRL Limited, 2019										
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Filename: 6. A5152 Ruabon Road _ A525 Ruthin Road Priority Junction.j9
Path: Z:\Job Library\2021\210187 - Ruthin Road, Wrexham\Traffic Data\PICADY - Jan 2024 Update
Report generation date: 06/02/2024 10:00:27

- »2028 Base Re-dist, AM
- »2028 Base Re-dist, PM
- »2028 Assess Re-dist, AM
- »2028 Assess Re-dist, PM
- »2022 Survey, AM
- »2022 Survey, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2028 Base Re-dist									
Stream B-C	D1	1.0	14.01	0.49	B	D2	0.6	10.99	0.37	B
Stream B-A		0.0	14.83	0.02	B		0.1	14.71	0.06	B
Stream C-AB		0.8	9.42	0.35	A		1.4	9.32	0.46	A
	2028 Assess Re-dist									
Stream B-C	D3	1.9	19.73	0.64	C	D4	0.9	12.86	0.46	B
Stream B-A		0.0	18.74	0.02	C		0.1	16.73	0.07	C
Stream C-AB		1.0	10.62	0.42	B		2.3	12.60	0.60	B
	2022 Survey									
Stream B-C	D5	0.5	10.45	0.32	B	D6	0.4	9.58	0.29	A
Stream B-A		0.0	12.53	0.01	B		0.1	12.77	0.05	B
Stream C-AB		0.5	8.13	0.25	A		0.6	7.02	0.28	A

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

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

File summary

File Description

Title	A5152 Ruabon Road / A525 Ruthin Road Priority Junction
Location	A5152 Ruabon Road / A525 Ruthin Road Priority Junction
Site number	
Date	29/11/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	SCP\abbie.moore
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

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		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)
D1	2028 Base Re-dist	AM	ONE HOUR	07:45	09:15	15
D2	2028 Base Re-dist	PM	ONE HOUR	16:15	17:45	15
D3	2028 Assess Re-dist	AM	ONE HOUR	07:45	09:15	15
D4	2028 Assess Re-dist	PM	ONE HOUR	16:15	17:45	15
D5	2022 Survey	AM	ONE HOUR	07:45	09:15	15
D6	2022 Survey	PM	ONE HOUR	16:15	17:45	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2028 Base Re-dist, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A5152 Ruabon Road / A525 Ruthin Road Priority Junction	T-Junction	Two-way		5.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	A5152 Ruabon Road (S)		Major
B	A525 Ruthin Rd		Minor
C	A5152 Ruabon Road (N)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00			100.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	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	7.90	3.50	3.30	3.30	3.00	✓	1.00	33	17

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	492	0.086	0.216	0.136	0.309
B-C	674	0.099	0.250	-	-
C-B	632	0.234	0.234	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2028 Base Re-dist	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	459	100.000
B		✓	248	100.000
C		✓	318	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	32	427
	B	4	0	244
	C	172	146	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	10	10
	B	10	0	10
	C	10	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.49	14.01	1.0	B
B-A	0.02	14.83	0.0	B
C-AB	0.35	9.42	0.8	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	184	590	0.311	182	0.5	9.651	A
B-A	3	356	0.008	3	0.0	11.206	B
C-AB	138	641	0.215	136	0.4	7.836	A
C-A	102			102			
A-B	24			24			
A-C	321			321			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	219	574	0.382	219	0.7	11.127	B
B-A	4	323	0.011	4	0.0	12.396	B
C-AB	173	644	0.269	173	0.5	8.402	A
C-A	113			113			
A-B	29			29			
A-C	384			384			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	269	551	0.488	267	1.0	13.881	B
B-A	4	272	0.016	4	0.0	14.781	B
C-AB	228	649	0.351	227	0.7	9.376	A
C-A	122			122			
A-B	35			35			
A-C	470			470			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	269	551	0.488	269	1.0	14.007	B
B-A	4	271	0.016	4	0.0	14.825	B
C-AB	228	650	0.351	228	0.8	9.418	A
C-A	122			122			
A-B	35			35			
A-C	470			470			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	219	574	0.382	221	0.7	11.261	B
B-A	4	322	0.011	4	0.0	12.437	B
C-AB	173	645	0.269	174	0.5	8.454	A
C-A	112			112			
A-B	29			29			
A-C	384			384			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	184	590	0.311	184	0.5	9.782	A
B-A	3	355	0.008	3	0.0	11.243	B
C-AB	138	641	0.215	139	0.4	7.899	A
C-A	101			101			
A-B	24			24			
A-C	321			321			

2028 Base Re-dist, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A5152 Ruabon Road / A525 Ruthin Road Priority Junction	T-Junction	Two-way		4.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2028 Base Re-dist	PM	ONE HOUR	16:15	17:45	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	339	100.000
B		✓	210	100.000
C		✓	504	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	From A	0	18	321
	From B	15	0	195
	From C	322	182	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	From A	0	10	10
	From B	10	0	10
	From C	10	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.37	10.99	0.6	B
B-A	0.06	14.71	0.1	B
C-AB	0.46	9.32	1.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	147	607	0.242	145	0.3	8.547	A
B-A	11	357	0.032	11	0.0	11.431	B
C-AB	204	737	0.277	202	0.6	7.380	A
C-A	175			175			
A-B	14			14			
A-C	242			242			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	175	594	0.295	175	0.5	9.440	A
B-A	13	328	0.041	13	0.0	12.582	B
C-AB	265	760	0.349	264	0.8	7.995	A
C-A	188			188			
A-B	16			16			
A-C	289			289			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	215	575	0.373	214	0.6	10.947	B
B-A	17	286	0.058	16	0.1	14.667	B
C-AB	365	793	0.460	363	1.3	9.232	A
C-A	190			190			
A-B	20			20			
A-C	353			353			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	215	575	0.373	215	0.6	10.991	B
B-A	17	286	0.058	17	0.1	14.707	B
C-AB	366	793	0.461	365	1.4	9.320	A
C-A	189			189			
A-B	20			20			
A-C	353			353			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	175	594	0.295	176	0.5	9.494	A
B-A	13	327	0.041	14	0.0	12.625	B
C-AB	266	762	0.350	268	0.8	8.092	A
C-A	187			187			
A-B	16			16			
A-C	289			289			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	147	607	0.242	147	0.4	8.618	A
B-A	11	356	0.032	11	0.0	11.476	B
C-AB	205	738	0.278	206	0.6	7.472	A
C-A	174			174			
A-B	14			14			
A-C	242			242			

2028 Assess Re-dist, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A5152 Ruabon Road / A525 Ruthin Road Priority Junction	T-Junction	Two-way		7.82	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)
D3	2028 Assess Re-dist	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	462	100.000
B		✓	322	100.000
C		✓	349	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
From	A	0	32	430
	B	4	0	318
	C	173	176	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
From	A	0	10	10
	B	10	0	10
	C	10	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.64	19.73	1.9	C
B-A	0.02	18.74	0.0	C
C-AB	0.42	10.62	1.0	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	239	590	0.406	236	0.7	11.126	B
B-A	3	335	0.009	3	0.0	11.923	B
C-AB	166	641	0.260	164	0.5	8.292	A
C-A	96			96			
A-B	24			24			
A-C	324			324			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	286	573	0.499	285	1.1	13.663	B
B-A	4	290	0.012	4	0.0	13.818	B
C-AB	209	644	0.325	208	0.6	9.089	A
C-A	105			105			
A-B	29			29			
A-C	387			387			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	350	550	0.636	347	1.8	19.208	C
B-A	4	218	0.020	4	0.0	18.531	C
C-AB	275	649	0.424	274	1.0	10.541	B
C-A	109			109			
A-B	35			35			
A-C	473			473			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	350	550	0.636	350	1.9	19.732	C
B-A	4	216	0.020	4	0.0	18.739	C
C-AB	276	650	0.424	275	1.0	10.619	B
C-A	109			109			
A-B	35			35			
A-C	473			473			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	286	573	0.499	289	1.1	14.078	B
B-A	4	288	0.013	4	0.0	13.945	B
C-AB	210	645	0.325	211	0.7	9.178	A
C-A	104			104			
A-B	29			29			
A-C	387			387			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	239	590	0.406	241	0.8	11.404	B
B-A	3	333	0.009	3	0.0	12.002	B
C-AB	167	641	0.260	168	0.5	8.385	A
C-A	96			96			
A-B	24			24			
A-C	324			324			

2028 Assess Re-dist, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A5152 Ruabon Road / A525 Ruthin Road Priority Junction	T-Junction	Two-way		7.20	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)
D4	2028 Assess Re-dist	PM	ONE HOUR	16:15	17:45	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	342	100.000
B		✓	256	100.000
C		✓	560	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
From	A	0	18	324
	B	15	0	241
	C	324	236	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
From	A	0	10	10
	B	10	0	10
	C	10	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.46	12.86	0.9	B
B-A	0.07	16.73	0.1	C
C-AB	0.60	12.60	2.3	B
C-A				
A-B				
A-C				

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	181	607	0.299	180	0.5	9.235	A
B-A	11	340	0.033	11	0.0	12.042	B
C-AB	265	738	0.360	262	0.8	8.294	A
C-A	156			156			
A-B	14			14			
A-C	244			244			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	217	593	0.365	216	0.6	10.491	B
B-A	13	305	0.044	13	0.1	13.586	B
C-AB	345	761	0.454	344	1.2	9.499	A
C-A	158			158			
A-B	16			16			
A-C	291			291			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	573	0.463	264	0.9	12.760	B
B-A	17	254	0.065	16	0.1	16.637	C
C-AB	475	794	0.598	471	2.2	12.297	B
C-A	141			141			
A-B	20			20			
A-C	357			357			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	573	0.463	265	0.9	12.860	B
B-A	17	253	0.065	17	0.1	16.732	C
C-AB	477	795	0.600	477	2.3	12.604	B
C-A	140			140			
A-B	20			20			
A-C	357			357			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	217	593	0.366	218	0.6	10.597	B
B-A	13	303	0.044	14	0.1	13.674	B
C-AB	347	763	0.455	351	1.3	9.760	A
C-A	156			156			
A-B	16			16			
A-C	291			291			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	181	606	0.299	182	0.5	9.346	A
B-A	11	338	0.033	11	0.0	12.115	B
C-AB	267	739	0.361	269	0.8	8.477	A
C-A	155			155			
A-B	14			14			
A-C	244			244			

2022 Survey, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A5152 Ruabon Road / A525 Ruthin Road Priority Junction	T-Junction	Two-way		3.32	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)
D5	2022 Survey	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	431	100.000
B		✓	167	100.000
C		✓	267	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
From	A	0	30	401
	B	4	0	163
	C	162	105	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
From	A	0	10	10
	B	10	0	10
	C	10	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.32	10.45	0.5	B
B-A	0.01	12.53	0.0	B
C-AB	0.25	8.13	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	123	595	0.206	122	0.3	8.335	A
B-A	3	380	0.008	3	0.0	10.516	B
C-AB	98	640	0.153	97	0.2	7.278	A
C-A	103			103			
A-B	23			23			
A-C	302			302			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	147	580	0.253	146	0.4	9.124	A
B-A	4	355	0.010	4	0.0	11.253	B
C-AB	122	643	0.190	122	0.3	7.601	A
C-A	118			118			
A-B	27			27			
A-C	360			360			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	179	559	0.321	179	0.5	10.430	B
B-A	4	321	0.014	4	0.0	12.517	B
C-AB	160	648	0.247	159	0.5	8.113	A
C-A	134			134			
A-B	33			33			
A-C	442			442			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	179	559	0.321	179	0.5	10.445	B
B-A	4	321	0.014	4	0.0	12.526	B
C-AB	160	648	0.247	160	0.5	8.132	A
C-A	134			134			
A-B	33			33			
A-C	442			442			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	147	580	0.253	147	0.4	9.164	A
B-A	4	355	0.010	4	0.0	11.265	B
C-AB	122	643	0.190	123	0.3	7.624	A
C-A	118			118			
A-B	27			27			
A-C	360			360			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	123	595	0.206	123	0.3	8.393	A
B-A	3	379	0.008	3	0.0	10.530	B
C-AB	98	640	0.153	98	0.2	7.315	A
C-A	103			103			
A-B	23			23			
A-C	302			302			

2022 Survey, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	A5152 Ruabon Road / A525 Ruthin Road Priority Junction	T-Junction	Two-way		3.24	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)
D6	2022 Survey	PM	ONE HOUR	16:15	17:45	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	319	100.000
B		✓	167	100.000
C		✓	414	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
From	A	0	17	302
	B	14	0	153
	C	302	112	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
From	A	0	10	10
	B	10	0	10
	C	10	10	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.29	9.58	0.4	A
B-A	0.05	12.77	0.1	B
C-AB	0.28	7.02	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	115	612	0.188	114	0.3	7.945	A
B-A	11	382	0.028	10	0.0	10.666	B
C-AB	122	730	0.168	121	0.3	6.496	A
C-A	189			189			
A-B	13			13			
A-C	227			227			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	138	599	0.230	137	0.3	8.567	A
B-A	13	358	0.035	13	0.0	11.446	B
C-AB	158	751	0.211	158	0.4	6.679	A
C-A	214			214			
A-B	15			15			
A-C	271			271			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	168	582	0.290	168	0.4	9.561	A
B-A	15	326	0.047	15	0.1	12.756	B
C-AB	216	781	0.276	215	0.6	7.003	A
C-A	240			240			
A-B	19			19			
A-C	333			333			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	168	582	0.290	168	0.4	9.580	A
B-A	15	326	0.047	15	0.1	12.767	B
C-AB	216	781	0.276	216	0.6	7.023	A
C-A	240			240			
A-B	19			19			
A-C	333			333			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	138	599	0.230	138	0.3	8.596	A
B-A	13	358	0.035	13	0.0	11.466	B
C-AB	159	752	0.211	159	0.4	6.704	A
C-A	214			214			
A-B	15			15			
A-C	271			271			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	115	612	0.188	115	0.3	7.987	A
B-A	11	381	0.028	11	0.0	10.691	B
C-AB	123	731	0.168	123	0.3	6.532	A
C-A	189			189			
A-B	13			13			
A-C	227			227			