
Project	Wrexham Glyndŵr University
Location	Site 3: Holt Road Residential Scheme
Title	Highways Addendum
Date	3 rd December 2018
Author(s)	Mark Lever
Project Code	2627
Version	2



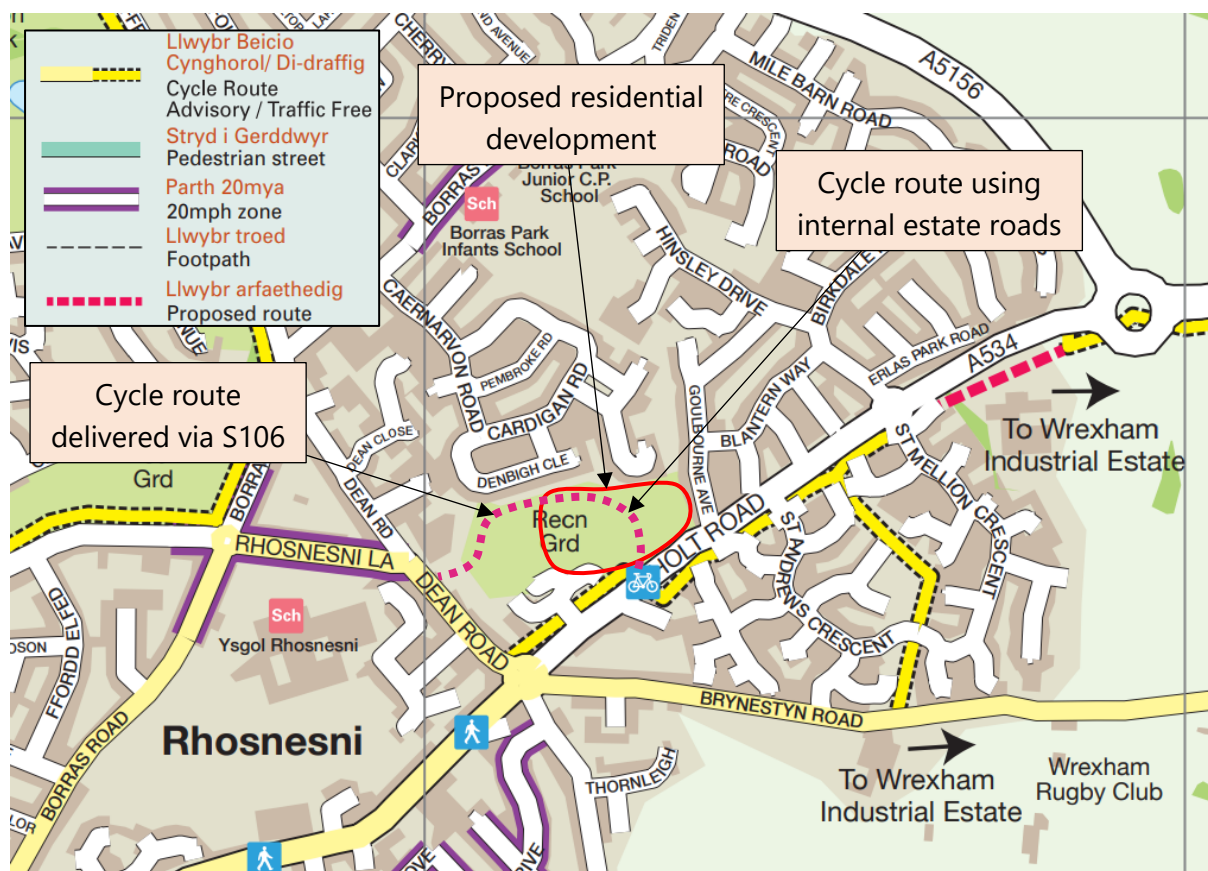
1. Introduction

- 1.1 The following Highways Addendum has been produced to respond to a number of outstanding queries raised by Wrexham County Borough Council (WCBC) highways officers following submission of the relevant planning application (P/2018/0673) and a subsequent meeting on 12th September 2018.
- 1.2 The addendum should be read in addition to the submitted Transport Assessment (v3 dated 31st July 2018). In the case of conflicting information, that presented in the Highways Addendum should be taken as the most relevant and up-to-date.
- 1.3 The addendum is set out into the following chapters, reflecting each outstanding issue:
 - **Cycle route** – Providing details of a proposed cycle route through the site, improving the wider cycle network in east Wrexham
 - **Site access** – Updating the previously-submitted layout to show additional details, such as bus stop locations
 - **Trip generation** – Updating previously-presented data to match that provided by WCBC obtained from a nearby development
 - **Trip distribution** – Updating previously-presented flow diagrams in line with updated trip generation
 - **Junction assessment** – Updating previously-presented junction assessment results in line with updated trip generation
- 1.4 It is anticipated that following the submission of this Highways Addendum, WCBC highways officers will be in a position to confirm their support for the proposed development. It should continue to be noted that this application does not sit in isolation and forms one part of a wider masterplan for Wrexham Glyndŵr University.

2. Cycle Route

- 2.1 It is proposed that a condition be included in any forthcoming planning permission requiring the provision of a new shared footway and cycleway linking the proposed residential development to the existing access off Dean Road. It is considered that this would offer a useful amenity to both encourage trips on foot and by bicycle from the proposed development, as well as integrating and improving the cycle network in the east of Wrexham, therefore offsetting some of the development impact.
- 2.2 Currently the signed cycle network, as shown in Figure 2-1, requires cyclists coming from St Andrews Crescent and the surrounding development to make use of a narrow sub-standard shared footway alongside Holt Road and around the Greyhound Roundabout. Cyclists must then re-join the carriageway along Dean Road before joining the quieter Rhosnesni Lane. By providing a link through the site (also illustrated indicatively in Figure 2-1) this route could be made significantly more attractive and safer for pedestrians and cyclists by providing a wider, traffic-free route.

Figure 2-1: Indicative cycle route



Source: Sustrans; contains Ordnance Survey data (c) Crown copyright and database right 2014

- 2.3 To the east of the site, it is proposed to tie in the development via a 3m-wide footway/cycleway to the existing toucan crossing on Holt Street, therefore linking to a similar traffic-free route through the development to the south. It is considered with the significant potential residential allocations further to the east, this cycle corridor is likely to see greater demand.
- 2.4 To the west of the site, the existing access via a dropped-kerb footway crossing onto Dean Road is considered straightforward to negotiate by bicycle. If necessary, cyclists could continue to make use of a short section of footway to reach an existing pedestrian refuge to cross the road.
- 2.5 When considering delivery, it is thought most appropriate for the route to be brought forward via a Section 106 agreement, since the land on which the route will be constructed is subject to being gifted to Wrexham CBC it will be within the council's ability to deliver the route subject to the eventual developer providing suitable funding.

3. Site Access

- 3.1 In line with Wrexham CBC commentary, the proposed access layout plan has been updated primarily to demonstrate the interaction between the site access and existing bus stops. The updated plan is included as Appendix A.

4. Trip Generation

- 4.1 Trip rates have been provided by WCBC based on surveys conducted at Kensington Grove – a similar residential cul-de-sac located approximately 1.5km to the north west of the proposed development. The trip rates are indicated in Table 4-1.

Table 4-1: Vehicle trip generation

		AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
		Arr.	Dep.	Total	Arr.	Dep.	Total
Previous trip rate	per unit	0.167	0.435	0.602	0.402	0.219	0.621
Revised trip rate		0.124	0.476	0.600	0.482	0.259	0.741
Previous trip generation	77 units	13	33	46	31	17	48
Revised trip generation		10	37	47	37	20	57
Difference		-3	+4	+1	+6	+3	+9

Source: Previous: TRICS; Revised: WCBC

- 4.2 It is considered that the difference in trip rates between what was previously assessed and the revised rates is negligible and, therefore, our previous conclusions as presented within our Transport Assessment remain the same. For completeness, the remainder of this note looks at the updated distribution and modelling of the development trips based on the revised trip generation.

5. Trip Distribution

- 5.1 Based on the revised trip rates discussed in section 4, revised flow diagrams have been included in Appendix B. The percentage distribution has not been altered and remains consistent with the submitted Transport Assessment, based on previous assessment of 2011 origin destination census data.

6. Junction Assessments

- 6.1 Based on the revised trip rates discussed in section 4, and to accompany the revised flow diagrams, the modelling of the proposed site access and two existing junctions on Holt Road has been repeated. The summary tables shown below show the greatest-impact 2035 scenarios, however, as previously presented, 2020 (presumed opening year) assessment has also been included in the full modelling reports, included in Appendices D-E.

Proposed Development Access

- 6.2 For the proposed development access, modelling of the junction (using Junctions 9's PICADY) module has been carried out based on the latest layout shown in Appendix A of this addendum and updated flows shown in Appendix B.

Table 6-1: Proposed development access junction assessment summary

	AM Peak		PM Peak	
	Queue (PCU)	RFC	Queue (PCU)	RFC
2035 Baseline + Development (Previous Transport Assessment Scenario)				
Development Access	<1	0.11	<1	0.07
Holt Road (E)	<1	0.02	<1	0.10
2035 Baseline + Development (Revised Highways Addendum Scenario)				
Development Access	<1	0.12	<1	0.09
Holt Road (E)	<1	0.02	<1	0.12

Existing Junctions

- 6.3 For both existing junctions, since no changes to the physical road layout are proposed, only the development flows have altered. For comparison the results presented include the 2035 without development scenario, which includes TEMPro growth to factor the baseline flows from 2018 and account for committed development, the previously-presented 2035 scenario, as in the Transport Assessment, as well as the revised scenario, based on the updated trip generation.

Table 6-2: Holt Rd / Birkdale Rd / St Mellion Cres roundabout summary

	AM Peak		PM Peak	
	Queue (PCU)	RFC	Queue (PCU)	RFC
2035 Baseline				
Holt Road (NE)	<1	0.42	2	0.69
St Mellion Crescent	<1	0.19	<1	0.11
Holt Road (SW)	1	0.57	1	0.50
Birkdale Road	<1	0.30	<1	0.13
2035 Baseline + Development (Previous Transport Assessment Scenario)				
Holt Road (NE)	<1	0.42	2	0.70
St Mellion Crescent	<1	0.19	<1	0.11
Holt Road (SW)	1	0.58	1	0.51
Birkdale Road	<1	0.31	<1	0.13
2035 Baseline + Development (Revised Highways Addendum Scenario)				
Holt Road (NE)	<1	0.42	2	0.70
St Mellion Crescent	<1	0.19	<1	0.11
Holt Road (SW)	1	0.59	1	0.51
Birkdale Road	<1	0.31	<1	0.13

Table 6-3: Holt Rd / Bryn Estyn Rd / Cefn Rd (Greyhound) roundabout summary

	AM Peak		PM Peak	
	Queue (PCU)	RFC	Queue (PCU)	RFC
2035 Baseline				
Holt Rd (NE)	30	1.04	95	1.19
Bryn Estyn Rd	<1	0.08	<1	0.17
Cefn Rd	8	0.91	4	0.80
Holt Rd (SW)	3	0.74	8	0.91
Dean Rd	3	0.75	1	0.51
2035 Baseline + Development (Previous Transport Assessment Scenario)				
Holt Rd (NE)	35	1.05	98	1.19
Bryn Estyn Rd	<1	0.08	<1	0.17
Cefn Rd	9	0.92	4	0.80
Holt Rd (SW)	3	0.74	9	0.92
Dean Rd	3	0.75	1	0.52
2035 Baseline + Development (Revised Highways Addendum Scenario)				
Holt Rd (NE)	36	1.06	99	1.19
Bryn Estyn Rd	<1	0.08	<1	0.17
Cefn Rd	9	0.92	4	0.80
Holt Rd (SW)	3	0.74	9	0.92
Dean Rd	3	0.75	1	0.52

7. Conclusion

- 7.1 The Highways Addendum, in conjunction with the previously-submitted Transport Assessment, presents a transparent assessment of the traffic and transport impact of the proposed development, which in this case is not considered to be severe. This is based on the following key features and findings:
- The proposed development is located within a sustainable location, adjacent to existing bus and cycle networks and within walking distance of local schools and amenities.
 - The proposed development is predicted to generate a modest number of car-based trips; however, this is considered to be lower than if the same development was delivered in a more rural location – with the need to provide housing the location within the built-up area of Wrexham is considered to be preferable from a sustainable travel perspective.
 - The proposals have been amended to include an upgraded cycle route through the site, linking to the existing network at both ends and helping cyclists to avoid the busy Greyhound roundabout.
 - Despite issues being recognised at the Greyhound roundabout during peak periods, WCBC has acknowledged that the peak periods in Wrexham are relatively short in duration and that there is physically very little that can be done to improve the junction. The marginal impact of the proposed development on an already over capacity junction is therefore not deemed severe.
- 7.2 Based on the feedback received to date by WCBC, it is considered that all outstanding issues have now been addressed. Based on the information presented within this Highways Addendum, ITP consider that WCBC should be in a position to support the proposed development.

Appendix A

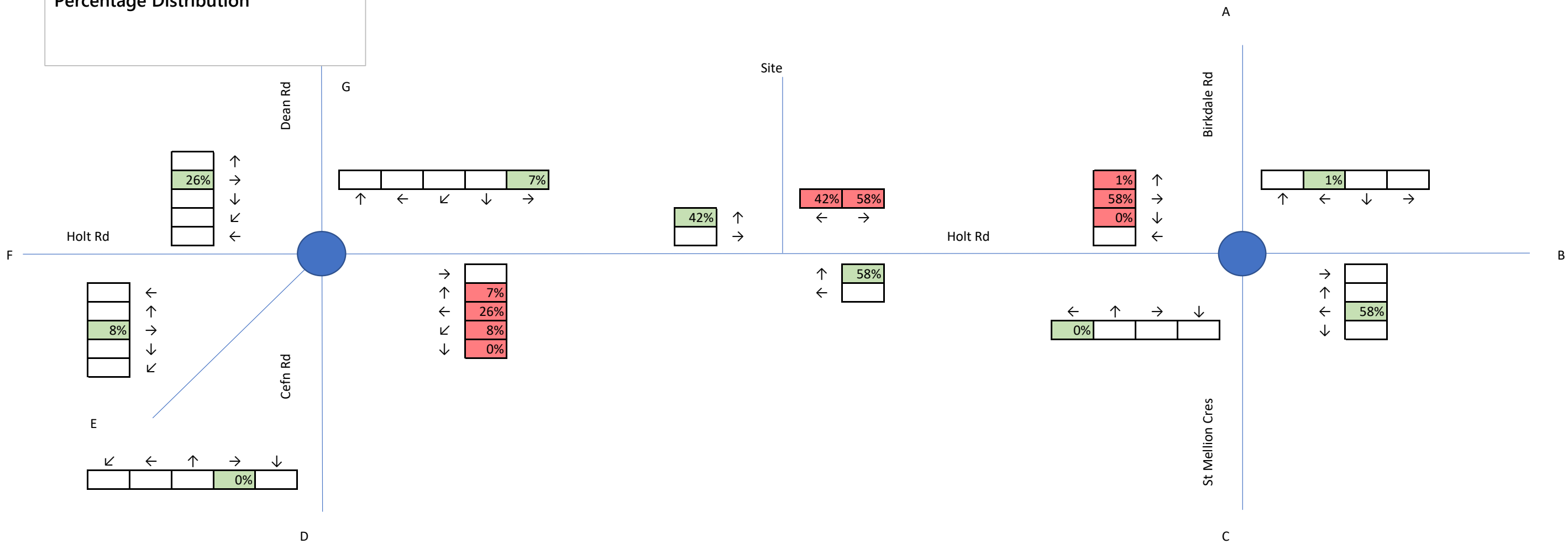
Proposed Site Access Layout

ITP DWG-2627-301 Rev D

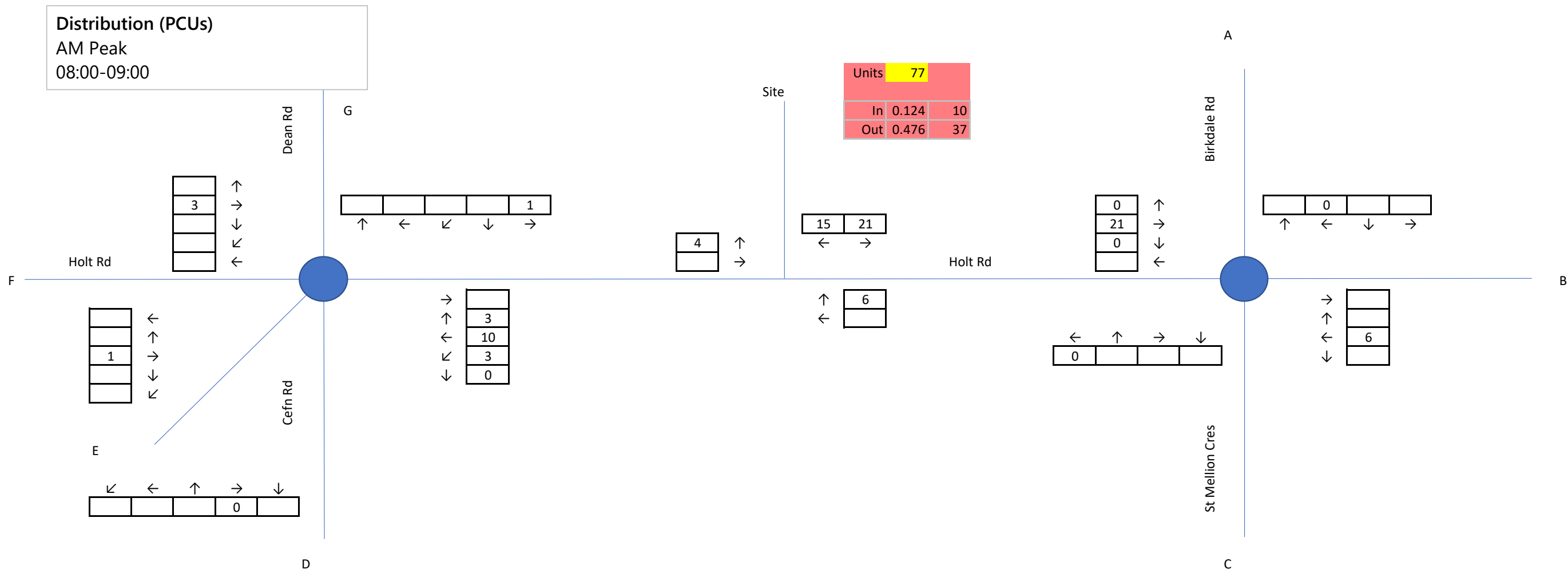
Appendix B

Flow Diagram

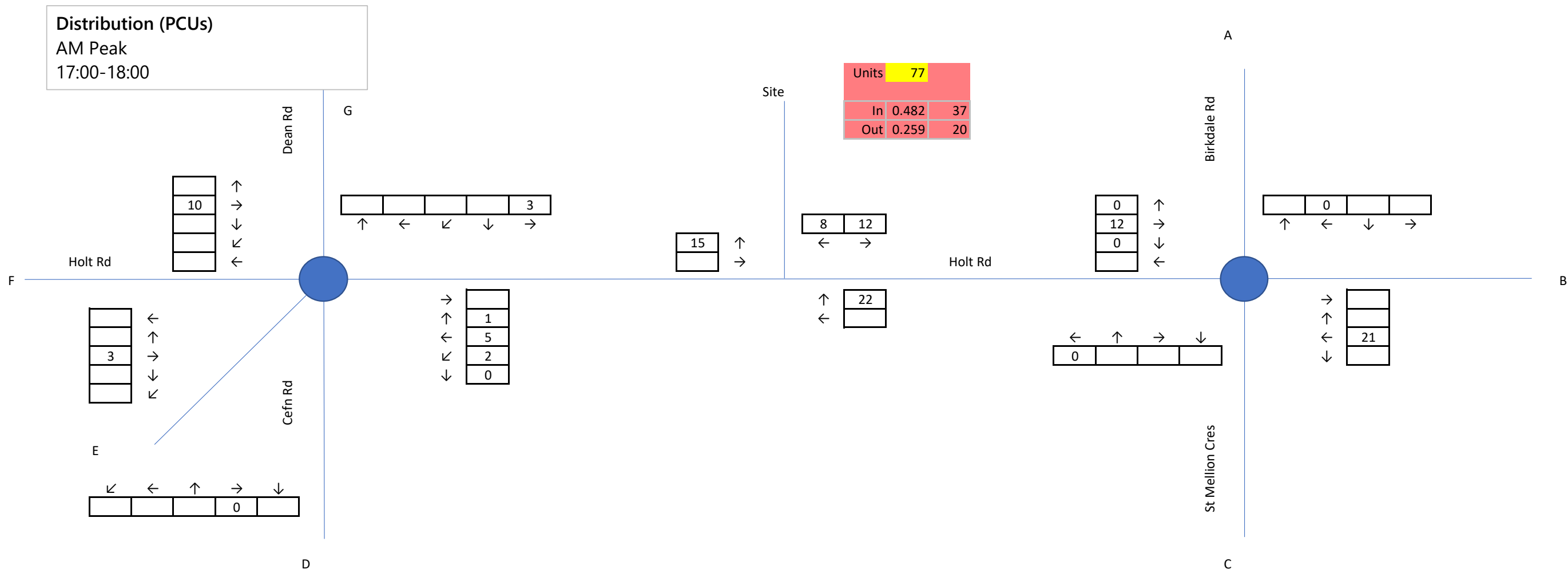
Percentage Distribution



Distribution (PCUs)
AM Peak
08:00-09:00



Distribution (PCUs)
AM Peak
17:00-18:00



Appendix C

Proposed Development Access PICADY Results

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.0.6896							
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Filename: HoltRdAccess_231018.j9

Path: Z:\2600-2699\2627 Wrexham Glyndwr University\Data\Junction Assessment

Report generation date: 23/10/2018 14:25:31

- »Proposed Layout - 2020 Baseline + Dev, AM Peak
- »Proposed Layout - 2020 Baseline + Dev, PM Peak
- »Proposed Layout - 2035 Baseline + Dev, AM Peak
- »Proposed Layout - 2035 Baseline + Dev, PM Peak

Summary of junction performance

	AM Peak				PM Peak			
	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC
Proposed Layout - 2020 Baseline + Dev								
Stream B-AC	0.1	0.5	10.75	0.11	0.1	0.5	12.73	0.07
Stream C-AB	0.0	0.5	5.01	0.02	0.2	1.3	4.00	0.10
Proposed Layout - 2035 Baseline + Dev								
Stream B-AC	0.1	0.5	11.86	0.12	0.1	0.5	15.35	0.09
Stream C-AB	0.0	0.5	4.94	0.02	0.3	1.1	3.82	0.12

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	Wrexham Glyndwr University
Location	Holt Rd
Site number	
Date	23/10/2018
Version	3
Status	
Identifier	
Client	Wrexham Glyndwr University
Jobnumber	2627
Enumerator	Mark Lever
Description	To accompany Highways Addendum, based on revised trip rates.

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	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	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Locked	Run automatically	Relationship type	Relationship
D1	2018 Baseline	AM Peak	Based on ATC counts 26/04/18	ONE HOUR	07:45	09:15	15				
D2	2018 Baseline	PM Peak	Based on ATC counts 26/04/18	ONE HOUR	16:45	18:15	15				
D3	2020 Baseline	AM Peak		ONE HOUR	07:45	09:15	15	✓		Simple	D1*1.0335
D4	2020 Baseline	PM Peak		ONE HOUR	16:45	18:15	15	✓		Simple	D2*1.0316
D5	2020 Baseline + Dev	AM Peak		ONE HOUR	07:45	09:15	15	✓	✓	Simple	D3+D11
D6	2020 Baseline + Dev	PM Peak		ONE HOUR	16:45	18:15	15	✓	✓	Simple	D4+D12
D7	2035 Baseline	AM Peak		ONE HOUR	07:45	09:15	15	✓		Simple	D1*1.2062
D8	2035 Baseline	PM Peak		ONE HOUR	16:45	18:15	15	✓		Simple	D2*1.1991
D9	2035 Baseline + Dev	AM Peak		ONE HOUR	07:45	09:15	15	✓	✓	Simple	D7+D11
D10	2035 Baseline + Dev	PM Peak		ONE HOUR	16:45	18:15	15	✓	✓	Simple	D8+D12
D11	Dev	AM Peak		ONE HOUR	07:45	09:15	15				
D12	Dev	PM Peak		ONE HOUR	16:45	18:15	15				

Analysis Set Details

ID	Name	Description	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	Proposed Layout	ITP DWG-2627-101	✓	100.000	100.000

Proposed Layout - 2020 Baseline + Dev, AM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.43	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Holt Rd (W)		Major
B	Site Access		Minor
C	Holt Rd (E)		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 - Holt Rd (E)	7.20			200.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Site Access	One lane	2.75	20	18

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	481	0.083	0.210	0.132	0.300
1	B-C	619	0.090	0.227	-	-
1	C-B	690	0.253	0.253	-	-

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)	Locked	Run automatically	Relationship type	Relationship
D5	2020 Baseline + Dev	AM Peak	ONE HOUR	07:45	09:15	15	✓	✓	Simple	D3+D11

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	543	100.000
B - Site Access		ONE HOUR	✓	36	100.000
C - Holt Rd (E)		ONE HOUR	✓	339	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
From	A - Holt Rd (W)	0	4	539
	B - Site Access	15	0	21
	C - Holt Rd (E)	333	6	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
From	A - Holt Rd (W)	0	0	5
	B - Site Access	0	0	0
	C - Holt Rd (E)	24	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.11	10.75	0.1	0.5	B	33	50
C-AB	0.02	5.01	0.0	0.5	A	11	16
C-A						372	559
A-B						4	6
A-C						520	780

Proposed Layout - 2020 Baseline + Dev, PM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.38	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)	Locked	Run automatically	Relationship type	Relationship
D6	2020 Baseline + Dev	PM Peak	ONE HOUR	16:45	18:15	15	✓	✓	Simple	D4+D12

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	620	100.000
B - Site Access		ONE HOUR	✓	20	100.000
C - Holt Rd (E)		ONE HOUR	✓	785	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	15	605
	B - Site Access	8	0	12
	C - Holt Rd (E)	763	22	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	0	7
	B - Site Access	0	0	0
	C - Holt Rd (E)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	12.73	0.1	0.5	B	18	28
C-AB	0.10	4.00	0.2	1.3	A	74	110
C-A						696	1044
A-B						14	21
A-C						595	892

Proposed Layout - 2035 Baseline + Dev, AM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.41	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)	Locked	Run automatically	Relationship type	Relationship
D9	2035 Baseline + Dev	AM Peak	ONE HOUR	07:45	09:15	15	✓	✓	Simple	D7+D11

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	634	100.000
B - Site Access		ONE HOUR	✓	36	100.000
C - Holt Rd (E)		ONE HOUR	✓	394	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
From	A - Holt Rd (W)	0	4	630
	B - Site Access	15	0	21
	C - Holt Rd (E)	388	6	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	0	5
	B - Site Access	0	0	0
	C - Holt Rd (E)	24	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	11.86	0.1	0.5	B	33	50
C-AB	0.02	4.94	0.0	0.5	A	12	18
C-A						434	651
A-B						4	6
A-C						607	910

Proposed Layout - 2035 Baseline + Dev, PM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.40	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)	Locked	Run automatically	Relationship type	Relationship
D10	2035 Baseline + Dev	PM Peak	ONE HOUR	16:45	18:15	15	✓	✓	Simple	D8+D12

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	718	100.000
B - Site Access		ONE HOUR	✓	20	100.000
C - Holt Rd (E)		ONE HOUR	✓	909	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
From	A - Holt Rd (W)	0	15	703
	B - Site Access	8	0	12
	C - Holt Rd (E)	887	22	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	0	7
	B - Site Access	0	0	0
	C - Holt Rd (E)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.09	15.35	0.1	0.5	C	18	28
C-AB	0.12	3.82	0.3	1.1	A	96	144
C-A						796	1193
A-B						14	21
A-C						691	1037

Appendix D

Holt Road Junctions ARCADY Results

Junctions 8

ARCADY 8 - Roundabout Module

Version: 8.0.6.541 [19821,26/11/2015]
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Filename: HoltRd_231018.arc8

Path: Z:\2600-2699\2627 Wrexham Glyndwr University\Data\Junction Assessment

Report generation date: 23/10/2018 15:04:19

Summary of junction performance

	AM Peak				PM Peak			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	Existing Layout - 2018 Baseline							
Greyhound Roundabout - A534 Holt Rd (NE)	4.12	21.45	0.81	C	12.35	52.13	0.95	F
Greyhound Roundabout - Bryn Estyn Rd	0.06	8.03	0.05	A	0.15	8.55	0.13	A
Greyhound Roundabout - Cefn Rd	2.45	15.79	0.71	C	1.81	13.61	0.65	B
Greyhound Roundabout - A534 Holt Rd (SW)	1.33	10.70	0.57	B	2.41	15.68	0.71	C
Greyhound Roundabout - Dean Rd	1.31	8.99	0.57	A	0.64	6.47	0.39	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.54	3.53	0.34	A	1.33	5.15	0.57	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.17	4.61	0.15	A	0.08	5.24	0.08	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	0.91	4.83	0.47	A	0.70	4.18	0.41	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.29	6.66	0.22	A	0.12	5.23	0.10	A
	Existing Layout - 2020 Baseline							
Greyhound Roundabout - A534 Holt Rd (NE)	5.13	26.09	0.84	D	18.44	72.84	0.99	F
Greyhound Roundabout - Bryn Estyn Rd	0.06	8.39	0.06	A	0.16	8.89	0.14	A

Greyhound Roundabout - Cefn Rd	2.87	17.99	0.74	C	2.04	14.92	0.68	B
Greyhound Roundabout - A534 Holt Rd (SW)	1.48	11.53	0.59	B	2.79	17.69	0.74	C
Greyhound Roundabout - Dean Rd	1.46	9.73	0.60	A	0.69	6.76	0.41	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.57	3.60	0.36	A	1.44	5.39	0.59	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.18	4.71	0.15	A	0.09	5.38	0.08	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	0.97	4.99	0.48	A	0.74	4.29	0.43	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.31	6.89	0.23	A	0.12	5.32	0.11	A
Existing Layout - 2020 Baseline + Dev								
Greyhound Roundabout - A534 Holt Rd (NE)	5.85	29.25	0.86	D	20.25	78.35	0.99	F
Greyhound Roundabout - Bryn Estyn Rd	0.06	8.55	0.06	A	0.16	8.93	0.14	A
Greyhound Roundabout - Cefn Rd	2.97	18.61	0.75	C	2.05	15.04	0.68	C
Greyhound Roundabout - A534 Holt Rd (SW)	1.48	11.58	0.59	B	3.00	18.73	0.76	C
Greyhound Roundabout - Dean Rd	1.46	9.74	0.60	A	0.70	6.86	0.41	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.58	3.62	0.36	A	1.52	5.58	0.60	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.18	4.73	0.16	A	0.09	5.49	0.08	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	1.03	5.15	0.50	A	0.77	4.35	0.43	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.31	7.05	0.24	A	0.12	5.37	0.11	A
Existing Layout - 2035 Baseline								
Greyhound Roundabout - A534 Holt Rd (NE)	29.77	118.45	1.04	F	95.29	333.58	1.19	F
Greyhound Roundabout - Bryn Estyn Rd	0.09	10.34	0.08	B	0.20	9.74	0.17	A
Greyhound Roundabout - Cefn Rd	8.32	46.31	0.91	E	3.72	23.87	0.80	C
Greyhound Roundabout - A534 Holt Rd (SW)	2.75	18.73	0.74	C	7.74	43.87	0.91	E
Greyhound Roundabout - Dean Rd	2.86	16.62	0.75	C	1.04	8.83	0.51	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.75	4.02	0.42	A	2.21	7.16	0.69	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.24	5.30	0.19	A	0.12	6.31	0.11	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	1.36	6.04	0.57	A	0.99	4.93	0.50	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.43	8.35	0.30	A	0.16	5.85	0.13	A
Existing Layout - 2035 Baseline + Dev								
Greyhound Roundabout - A534 Holt Rd (NE)	36.09	137.92	1.06	F	99.29	350.76	1.19	F
Greyhound Roundabout - Bryn Estyn Rd	0.09	10.40	0.08	B	0.20	9.74	0.17	A

Greyhound Roundabout - Cefn Rd	8.58	47.75	0.92	E	3.73	23.96	0.80	C
Greyhound Roundabout - A534 Holt Rd (SW)	2.76	18.80	0.74	C	8.78	48.95	0.92	E
Greyhound Roundabout - Dean Rd	2.87	16.66	0.75	C	1.05	8.98	0.52	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.76	4.05	0.42	A	2.36	7.50	0.70	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.24	5.33	0.19	A	0.12	6.46	0.11	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	1.45	6.26	0.59	A	1.03	5.02	0.51	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.45	8.59	0.31	A	0.16	5.92	0.13	A

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

"D1 - 2018 Baseline, AM Peak" model duration: 07:45 - 09:15
"D2 - 2018 Baseline, PM Peak" model duration: 16:45 - 18:15
"D3 - 2020 Baseline, AM Peak" model duration: 07:45 - 09:15
"D4 - 2020 Baseline, PM Peak" model duration: 16:45 - 18:15
"D5 - 2020 Baseline + Dev, AM Peak" model duration: 07:45 - 09:15
"D6 - 2020 Baseline + Dev, PM Peak" model duration: 16:45 - 18:15
"D7 - 2035 Baseline, AM Peak" model duration: 07:45 - 09:15
"D8 - 2035 Baseline, PM Peak" model duration: 16:45 - 18:15
"D9 - 2035 Baseline + Dev, AM Peak" model duration: 07:45 - 09:15
"D10 - 2035 Baseline + Dev, PM Peak" model duration: 16:45 - 18:15
"D11 - Dev, AM Peak" model duration: 07:45 - 09:15
"D12 - Dev, PM Peak" model duration: 16:45 - 18:15

Run using Junctions 8.0.6.541 at 23/10/2018 15:04:03

File summary

Title	Wrexham Glyndwr University
Location	Holt Road
Site Number	
Date	23/10/2018
Version	3
Status	
Identifier	
Client	Wrexham Glyndwr University
Jobnumber	2627
Enumerator	Mark Lever
Description	To accompany Highways Addendum, based on revised trip rates

Analysis Options

Vehicle Length (m)	Do Queue Variations	Calculate Residual Capacity	Residual Capacity Criteria Type	RFC Threshold	Average Delay Threshold (s)	Queue Threshold (PCU)
5.75			N/A	0.85	36.00	20.00

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	PCU	perHour	s	-Min	perMin

Existing Layout - 2018 Baseline, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2018 Baseline, AM Peak	2018 Baseline	AM Peak		ONE HOUR	07:45	09:15	90	15				✓		

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				14.91	B
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.52	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00

Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		✓	✓	HV Percentages	2.00				✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
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Greyhound Roundabout	A534 Holt Rd (NE)	ONE HOUR	✓	633.00	100.000
Greyhound Roundabout	Bryn Estyn Rd	ONE HOUR	✓	22.00	100.000
Greyhound Roundabout	Cefn Rd	ONE HOUR	✓	505.00	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	ONE HOUR	✓	400.00	100.000
Greyhound Roundabout	Dean Rd	ONE HOUR	✓	479.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	ONE HOUR	✓	486.00	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	ONE HOUR	✓	123.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	ONE HOUR	✓	593.00	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	ONE HOUR	✓	140.00	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout (for whole period)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	16.000	217.000	323.000	76.000
	Bryn Estyn Rd	7.000	0.000	3.000	6.000	6.000
	Cefn Rd	208.000	4.000	3.000	93.000	197.000
	A534 Holt Rd (SW)	263.000	8.000	55.000	1.000	73.000
	Dean Rd	122.000	19.000	226.000	102.000	10.000

Turning Proportions (Veh) - Greyhound Roundabout (for whole period)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12

	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd (for whole period)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	2.000	15.000	462.000	7.000
	St Mellion Cres	64.000	0.000	31.000	28.000
	A534 Holt Rd (SW)	553.000	12.000	1.000	27.000
	Birkdale Rd	52.000	7.000	81.000	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd (for whole period)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout (for whole period)

		To				
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027

	Dean Rd	1.008	1.000	1.004	1.010	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout (for whole period)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.81	21.45	4.12	C	600.88	901.32	197.17	13.13	2.19	197.21	13.13
Greyhound Roundabout	Bryn Estyn Rd	0.05	8.03	0.06	A	21.10	31.66	3.59	6.81	0.04	3.59	6.81
Greyhound Roundabout	Cefn Rd	0.71	15.79	2.45	C	479.11	718.66	129.80	10.84	1.44	129.82	10.84
Greyhound Roundabout	A534 Holt Rd (SW)	0.57	10.70	1.33	B	377.91	566.87	78.53	8.31	0.87	78.54	8.31
Greyhound Roundabout	Dean Rd	0.57	8.99	1.31	A	442.20	663.30	76.89	6.96	0.85	76.90	6.96
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.34	3.53	0.54	A	464.19	696.29	37.60	3.24	0.42	37.60	3.24
Holt Rd / Birkdale Rd	St Mellion Cres	0.15	4.61	0.17	A	112.87	169.30	11.90	4.22	0.13	11.90	4.22
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.47	4.83	0.91	A	565.46	848.19	59.99	4.24	0.67	60.00	4.24
Holt Rd / Birkdale Rd	Birkdale Rd	0.22	6.66	0.29	A	130.30	195.46	19.04	5.84	0.21	19.04	5.84

Existing Layout - 2018 Baseline, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2018 Baseline, PM Peak	2018 Baseline	PM Peak		ONE HOUR	16:45	18:15	90	15				✓		

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				27.57	D
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.81	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503

Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		✓	✓	HV Percentages	2.00				✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	ONE HOUR	✓	816.00	100.000
Greyhound Roundabout	Bryn Estyn Rd	ONE HOUR	✓	56.00	100.000
Greyhound Roundabout	Cefn Rd	ONE HOUR	✓	440.00	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	ONE HOUR	✓	515.00	100.000
Greyhound Roundabout	Dean Rd	ONE HOUR	✓	324.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	ONE HOUR	✓	844.00	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	ONE HOUR	✓	52.00	100.000

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	ONE HOUR	✓	548.00	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	ONE HOUR	✓	71.00	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout (for whole period)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	30.000	268.000	378.000	140.000
	Bryn Estyn Rd	12.000	0.000	5.000	22.000	17.000
	Cefn Rd	153.000	13.000	1.000	85.000	188.000
	A534 Holt Rd (SW)	339.000	11.000	71.000	0.000	94.000
	Dean Rd	95.000	28.000	134.000	60.000	7.000

Turning Proportions (Veh) - Greyhound Roundabout (for whole period)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd (for whole period)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	44.000	757.000	43.000
	St Mellion Cres	24.000	0.000	25.000	3.000
	A534 Holt Rd (SW)	457.000	25.000	1.000	65.000

	Birkdale Rd	23.000	8.000	40.000	0.000
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Turning Proportions (Veh) - Holt Rd / Birkdale Rd (for whole period)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout (for whole period)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout (for whole period)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/h r)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU- min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU- min/min)	Inclusive Total Queueing Delay (PCU- min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.9 5	52.1 3	12.35	F	756.00	1134.00	436.29	23.08	4.85	436.37	23.09
Greyhound Roundabout	Bryn Estyn Rd	0.1 3	8.55	0.15	A	51.39	77.08	9.10	7.08	0.10	9.10	7.08
Greyhound Roundabout	Cefn Rd	0.6 5	13.6 1	1.81	B	407.50	611.24	99.47	9.76	1.11	99.48	9.77
Greyhound	A534 Holt	0.7 1	15.6 8	2.41	C	473.51	710.26	127.30	10.75	1.41	127.32	10.76

							(min)							
2020 Baseline, AM Peak	2020 Baseline	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D1*1.0335

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				17.25	C
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.65	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	

Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	
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Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	

Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies	Vehicle Mix Varies	Vehicle Mix Varies	Vehicle Mix Source	PCU Factor for a	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
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	Over Time	Over Turn	Over Entry		HV (PCU)					
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.778	12.449	168.842	251.318	59.134
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668

	Cefn Rd	161.839	3.112	2.334	72.361	153.280
	A534 Holt Rd (SW)	204.633	6.225	42.794	0.778	56.799
	Dean Rd	94.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	201.614	300.098	70.611
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	193.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	244.352	7.433	51.100	0.929	67.824
	Dean Rd	113.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.138	18.206	246.925	367.543	86.481
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	236.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	299.269	9.103	62.585	1.138	83.067
	Dean Rd	138.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.138	18.206	246.925	367.543	86.481
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	236.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	299.269	9.103	62.585	1.138	83.067
	Dean Rd	138.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	201.614	300.098	70.611
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	193.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	244.352	7.433	51.100	0.929	67.824
	Dean Rd	113.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.778	12.449	168.842	251.318	59.134
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	161.839	3.112	2.334	72.361	153.280

	A534 Holt Rd (SW)	204.633	6.225	42.794	0.778	56.799
	Dean Rd	94.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

		To				
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.556	11.671	359.470	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	430.274	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	1.858	13.936	429.242	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	513.790	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	2.276	17.069	525.712	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	629.261	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

		To			
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	2.276	17.069	525.712	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	629.261	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.858	13.936	429.242	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	513.790	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.556	11.671	359.470	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	430.274	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6

	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027

	Dean Rd	1.008	1.000	1.004	1.010	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0

	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/h r)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU- min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU- min/min)	Inclusive Total Queueing Delay (PCU- min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.84	26.09	5.13	D	621.01	931.51	230.77	14.86	2.56	230.81	14.87
Greyhound Roundabout	Bryn Estyn Rd	0.06	8.39	0.06	A	21.81	32.72	3.84	7.04	0.04	3.84	7.04
Greyhound Roundabout	Cefn Rd	0.74	17.99	2.87	C	495.16	742.73	146.29	11.82	1.63	146.31	11.82
Greyhound Roundabout	A534 Holt Rd (SW)	0.59	11.53	1.48	B	390.57	585.86	85.60	8.77	0.95	85.62	8.77
Greyhound Roundabout	Dean Rd	0.60	9.73	1.46	A	457.01	685.52	84.05	7.36	0.93	84.06	7.36
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.36	3.60	0.57	A	479.74	719.61	39.49	3.29	0.44	39.49	3.29
Holt Rd / Birkdale Rd	St Mellion Cres	0.15	4.71	0.18	A	116.65	174.97	12.51	4.29	0.14	12.51	4.29

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.48	4.99	0.97	A	584.40	876.60	63.60	4.35	0.71	63.61	4.35
Holt Rd / Birkdale Rd	Birkdale Rd	0.23	6.89	0.31	A	134.67	202.00	20.19	6.00	0.22	20.19	6.00

Existing Layout - 2020 Baseline, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2020 Baseline, PM Peak	2020 Baseline	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D2*1.0316

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				36.26	E
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.99	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00

Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
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Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	208.140	293.571	108.730
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	118.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	263.282	8.543	55.142	0.000	73.004
	Dean Rd	73.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17

	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	27.822	248.540	350.552	129.834
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	141.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	314.384	10.201	65.844	0.000	87.174
	Dean Rd	88.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	34.074	304.398	429.337	159.014
	Bryn Estyn Rd	13.630	0.000	5.679	24.988	19.309
	Cefn Rd	173.779	14.766	1.136	96.544	213.533
	A534 Holt Rd (SW)	385.041	12.494	80.643	0.000	106.766

	Dean Rd	107.902	31.803	152.199	68.149	7.951
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Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	34.074	304.398	429.337	159.014
	Bryn Estyn Rd	13.630	0.000	5.679	24.988	19.309
	Cefn Rd	173.779	14.766	1.136	96.544	213.533
	A534 Holt Rd (SW)	385.041	12.494	80.643	0.000	106.766
	Dean Rd	107.902	31.803	152.199	68.149	7.951

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.822	248.540	350.552	129.834
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	141.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	314.384	10.201	65.844	0.000	87.174
	Dean Rd	88.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	208.140	293.571	108.730
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	118.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	263.282	8.543	55.142	0.000	73.004
	Dean Rd	73.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30

	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	34.172	587.918	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	354.926	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	40.805	702.032	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	423.816	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

		To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	49.976	859.810	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	519.066	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	49.976	859.810	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	519.066	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	40.805	702.032	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	423.816	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	34.172	587.918	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	354.926	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0

	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

Average CS for Vehicle: Holt Rd / Birkdale Rd (1045-1100)					
	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

		To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/h r)	Total Junctio n Arrival s (PCU)	Total Queuein g Delay (PCU- min)	Average Queuein g Delay (s)	Rate Of Queuein g Delay (PCU- min/min)	Inclusiv e Total Queuein g Delay (PCU- min)	Inclusiv e Average Queuein g Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.9 9	72.8 4	18.44	F	779.89	1169.83	582.92	29.90	6.48	583.02	29.90
Greyhound Roundabout	Bryn Estyn Rd	0.1 4	8.89	0.16	A	53.01	79.52	9.73	7.34	0.11	9.73	7.34
Greyhound Roundabout	Cefn Rd	0.6 8	14.9 2	2.04	B	420.37	630.56	109.80	10.45	1.22	109.82	10.45
Greyhound Roundabout	A534 Holt Rd (SW)	0.7 4	17.6 9	2.79	C	488.47	732.70	142.46	11.67	1.58	142.48	11.67
Greyhound Roundabout	Dean Rd	0.4 1	6.76	0.69	A	306.70	460.05	43.17	5.63	0.48	43.18	5.63
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.5 9	5.39	1.44	A	804.68	1207.01	89.88	4.47	1.00	89.89	4.47
Holt Rd / Birkdale Rd	St Mellion Cres	0.0 8	5.38	0.09	A	49.22	73.84	5.87	4.77	0.07	5.87	4.77
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.4 3	4.29	0.74	A	522.64	783.96	50.18	3.84	0.56	50.18	3.84
Holt Rd / Birkdale Rd	Birkdal e Rd	0.1 1	5.32	0.12	A	69.10	103.65	8.47	4.90	0.09	8.47	4.90

Existing Layout - 2020 Baseline + Dev, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2020 Baseline + Dev, AM Peak	2020 Baseline + Dev	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D3+D11

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				18.49	C
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.75	A

Junction Network Options

Driving Side	Lighting
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Left	Normal/unknown
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Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812

Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000

Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.778	12.449	171.100	258.846	61.392
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	162.839	3.112	2.334	72.361	153.280
	A534 Holt Rd (SW)	207.633	6.225	42.794	0.778	56.799
	Dean Rd	95.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	204.311	309.088	73.308
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	194.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	247.352	7.433	51.100	0.929	67.824
	Dean Rd	114.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.138	18.206	250.228	378.553	89.784
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	237.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	302.269	9.103	62.585	1.138	83.067
	Dean Rd	139.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27

	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.138	18.206	250.228	378.553	89.784
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	237.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	302.269	9.103	62.585	1.138	83.067
	Dean Rd	139.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	204.311	309.088	73.308
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	194.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	247.352	7.433	51.100	0.929	67.824
	Dean Rd	114.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.778	12.449	171.100	258.846	61.392
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	162.839	3.112	2.334	72.361	153.280
	A534 Holt Rd (SW)	207.633	6.225	42.794	0.778	56.799
	Dean Rd	95.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW) Birkdale Rd

	A534 Holt Rd (NE)	1.556	11.671	363.987	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	446.084	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.858	13.936	434.636	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	532.668	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.276	17.069	532.318	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	652.383	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.276	17.069	532.318	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	652.383	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.858	13.936	434.636	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	532.668	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.556	11.671	363.987	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	446.084	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000

	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/h r)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU- min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU- min/min)	Inclusive Total Queueing Delay (PCU- min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.86	29.25	5.85	D	635.69	953.54	253.63	15.96	2.82	253.68	15.96

Greyhound Roundabout	Bryn Estyn Rd	0.06	8.55	0.06	A	21.81	32.72	3.89	7.14	0.04	3.89	7.14
Greyhound Roundabout	Cefn Rd	0.75	18.61	2.97	C	495.12	742.68	149.58	12.08	1.66	149.60	12.09
Greyhound Roundabout	A534 Holt Rd (SW)	0.59	11.58	1.48	B	390.48	585.73	85.87	8.80	0.95	85.88	8.80
Greyhound Roundabout	Dean Rd	0.60	9.74	1.46	A	457.01	685.51	84.15	7.37	0.94	84.16	7.37
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.36	3.62	0.58	A	485.25	727.87	40.13	3.31	0.45	40.13	3.31
Holt Rd / Birkdale Rd	St Mellion Cres	0.16	4.73	0.18	A	116.65	174.97	12.56	4.31	0.14	12.56	4.31
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.50	5.15	1.03	A	603.67	905.51	67.22	4.45	0.75	67.23	4.45
Holt Rd / Birkdale Rd	Birkdale Rd	0.24	7.05	0.31	A	134.67	202.00	20.56	6.11	0.23	20.56	6.11

Existing Layout - 2020 Baseline + Dev, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
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Existing Layout	ARCADY		✓				100.000	100.000	
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Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2020 Baseline + Dev, PM Peak	2020 Baseline + Dev	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D4+D12

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				38.69	E
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.13	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	

Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	

Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	23.299	209.646	297.335	109.483
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	121.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	270.810	8.543	55.142	0.000	73.004
	Dean Rd	76.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	27.822	250.338	355.047	130.733
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	144.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	323.374	10.201	65.844	0.000	87.174
	Dean Rd	91.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	From	A534 Holt Rd (NE)	0.000	34.074	306.600	434.842
		Bryn Estyn Rd	13.630	0.000	5.679	24.988
		Cefn Rd	176.779	14.766	1.136	96.544
		A534 Holt Rd (SW)	396.051	12.494	80.643	0.000
		Dean Rd	110.902	31.803	152.199	68.149

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46
		Bryn Estyn Rd	0.21	0.00	0.09	0.39
		Cefn Rd	0.35	0.03	0.00	0.19
		A534 Holt Rd (SW)	0.66	0.02	0.14	0.00
		Dean Rd	0.30	0.09	0.41	0.18

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	From	A534 Holt Rd (NE)	0.000	34.074	306.600	434.842
		Bryn Estyn Rd	13.630	0.000	5.679	24.988
		Cefn Rd	176.779	14.766	1.136	96.544

	A534 Holt Rd (SW)	396.051	12.494	80.643	0.000	106.766
	Dean Rd	110.902	31.803	152.199	68.149	7.951

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

		To				
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

		To				
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	27.822	250.338	355.047	130.733
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	144.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	323.374	10.201	65.844	0.000	87.174
	Dean Rd	91.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

		To				
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	209.646	297.335	109.483
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	121.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	270.810	8.543	55.142	0.000	73.004
	Dean Rd	76.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	34.172	603.728	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	363.960	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06

	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	40.805	720.911	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	434.604	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	49.976	882.932	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	532.279	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05

	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	49.976	882.932	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	532.279	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	40.805	720.911	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	434.604	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

		To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	34.172	603.728	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	363.960	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000

	Dean Rd	1.000	1.000	1.000	1.000	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0

	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000

	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max x LOS	Average Demand (PCU/h r)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU- min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU- min/min)	Inclusive Total Queueing Delay (PCU- min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.99	78.35	20.25	F	787.23	1180.84	626.54	31.84	6.96	626.64	31.84
Greyhound Roundabout	Bryn Estyn Rd	0.14	8.93	0.16	A	53.01	79.52	9.78	7.38	0.11	9.78	7.38
Greyhound Roundabout	Cefn Rd	0.68	15.04	2.05	C	420.34	630.52	110.59	10.52	1.23	110.61	10.53
Greyhound Roundabout	A534 Holt Rd (SW)	0.76	18.73	3.00	C	497.65	746.47	150.72	12.12	1.67	150.75	12.12
Greyhound	Dean Rd	0.41	6.86	0.70	A	306.70	460.05	43.66	5.69	0.49	43.66	5.69

Roundabout												
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.60	5.58	1.52	A	823.95	1235.92	94.45	4.59	1.05	94.46	4.59
Holt Rd / Birkdale Rd	St Mellion Cres	0.08	5.49	0.09	A	49.22	73.84	5.96	4.84	0.07	5.96	4.84
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.43	4.35	0.77	A	533.65	800.47	51.87	3.89	0.58	51.87	3.89
Holt Rd / Birkdale Rd	Birkdale Rd	0.11	5.37	0.12	A	69.10	103.65	8.54	4.94	0.09	8.54	4.94

Existing Layout - 2035 Baseline, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2035 Baseline,	2035 Baseline	AM Peak		Varies	07:45	09:15	90	15			✓	✓	✓	D1*1.2062

AM Peak				by Arm										
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Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				56.22	F
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.47	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.908	14.529	197.056	293.313	69.015
	Bryn Estyn Rd	6.357	0.000	2.724	5.449	5.449
	Cefn Rd	188.883	3.632	2.724	84.452	178.894
	A534 Holt Rd (SW)	238.828	7.265	49.945	0.908	66.291
	Dean Rd	110.787	17.254	205.228	92.625	9.081

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.084	17.350	235.304	350.245	82.411
	Bryn Estyn Rd	7.590	0.000	3.253	6.506	6.506
	Cefn Rd	225.545	4.337	3.253	100.844	213.617
	A534 Holt Rd (SW)	285.184	8.675	59.639	1.084	79.157
	Dean Rd	132.291	20.603	245.063	110.604	10.843

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.328	21.249	288.187	428.960	100.932

	Bryn Estyn Rd	9.296	0.000	3.984	7.968	7.968
	Cefn Rd	276.235	5.312	3.984	123.509	261.626
	A534 Holt Rd (SW)	349.277	10.624	73.043	1.328	96.948
	Dean Rd	162.022	25.233	300.140	135.461	13.281

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.328	21.249	288.187	428.960	100.932
	Bryn Estyn Rd	9.296	0.000	3.984	7.968	7.968
	Cefn Rd	276.235	5.312	3.984	123.509	261.626
	A534 Holt Rd (SW)	349.277	10.624	73.043	1.328	96.948
	Dean Rd	162.022	25.233	300.140	135.461	13.281

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18

	Dean Rd	0.25	0.04	0.47	0.21	0.02
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Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.084	17.350	235.304	350.245	82.411
	Bryn Estyn Rd	7.590	0.000	3.253	6.506	6.506
	Cefn Rd	225.545	4.337	3.253	100.844	213.617
	A534 Holt Rd (SW)	285.184	8.675	59.639	1.084	79.157
	Dean Rd	132.291	20.603	245.063	110.604	10.843

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.908	14.529	197.056	293.313	69.015
	Bryn Estyn Rd	6.357	0.000	2.724	5.449	5.449
	Cefn Rd	188.883	3.632	2.724	84.452	178.894
	A534 Holt Rd (SW)	238.828	7.265	49.945	0.908	66.291
	Dean Rd	110.787	17.254	205.228	92.625	9.081

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.816	13.621	419.538	6.357
	St Mellion Cres	58.118	0.000	28.151	25.427
	A534 Holt Rd (SW)	502.174	10.897	0.908	24.518
	Birkdale Rd	47.221	6.357	73.555	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.169	16.265	500.969	7.590
	St Mellion Cres	69.398	0.000	33.615	30.362
	A534 Holt Rd (SW)	599.645	13.012	1.084	29.277
	Birkdale Rd	56.386	7.590	87.832	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.656	19.921	613.560	9.296
	St Mellion Cres	84.995	0.000	41.170	37.185
	A534 Holt Rd (SW)	734.412	15.937	1.328	35.857
	Birkdale Rd	69.059	9.296	107.572	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.656	19.921	613.560	9.296
	St Mellion Cres	84.995	0.000	41.170	37.185
	A534 Holt Rd (SW)	734.412	15.937	1.328	35.857

	Birkdale Rd	69.059	9.296	107.572	0.000
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Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.169	16.265	500.969	7.590
	St Mellion Cres	69.398	0.000	33.615	30.362
	A534 Holt Rd (SW)	599.645	13.012	1.084	29.277
	Birkdale Rd	56.386	7.590	87.832	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.816	13.621	419.538	6.357
	St Mellion Cres	58.118	0.000	28.151	25.427

	A534 Holt Rd (SW)	502.174	10.897	0.908	24.518
	Birkdale Rd	47.221	6.357	73.555	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010

	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0

	Birkdale Rd	0.0	28.6	0.0	0.0
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Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0

	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	1.04	118.45	29.77	F	724.78	1087.17	853.80	47.12	9.49	853.91	47.13
Greyhound Roundabout	Bryn Estyn Rd	0.08	10.34	0.09	B	25.46	38.18	5.40	8.48	0.06	5.40	8.48
Greyhound Roundabout	Cefn Rd	0.91	46.31	8.32	E	577.90	866.85	321.02	22.22	3.57	321.08	22.22
Greyhound Roundabout	A534 Holt Rd (SW)	0.74	18.73	2.75	C	455.84	683.76	139.77	12.27	1.55	139.80	12.27
Greyhound Roundabout	Dean Rd	0.75	16.62	2.86	C	533.38	800.07	141.34	10.60	1.57	141.36	10.60
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.42	4.02	0.75	A	559.91	839.86	50.33	3.60	0.56	50.33	3.60
Holt Rd / Birkdale Rd	St Mellion Cres	0.19	5.30	0.24	A	136.14	204.21	16.03	4.71	0.18	16.03	4.71
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.57	6.04	1.36	A	682.06	1023.09	85.75	5.03	0.95	85.76	5.03
Holt Rd / Birkdale Rd	Birkdale Rd	0.30	8.35	0.43	A	157.17	235.76	27.30	6.95	0.30	27.30	6.95

Existing Layout - 2035 Baseline, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2035 Baseline, PM Peak	2035 Baseline	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D2*1.1991

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				143.94	F
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				6.26	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00

Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294

Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000

Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.082	241.936	341.238	126.384
	Bryn Estyn Rd	10.833	0.000	4.514	19.860	15.347
	Cefn Rd	138.120	11.736	0.903	76.733	169.716
	A534 Holt Rd (SW)	306.031	9.930	64.095	0.000	84.858
	Dean Rd	85.761	25.277	120.968	54.165	6.319

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	32.339	288.895	407.471	150.915
	Bryn Estyn Rd	12.936	0.000	5.390	23.715	18.325
	Cefn Rd	164.929	14.014	1.078	91.627	202.658
	A534 Holt Rd (SW)	365.431	11.858	76.536	0.000	101.329
	Dean Rd	102.407	30.183	144.447	64.678	7.546

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	39.607	353.823	499.048	184.833
	Bryn Estyn Rd	15.843	0.000	6.601	29.045	22.444
	Cefn Rd	201.996	17.163	1.320	112.220	248.204
	A534 Holt Rd (SW)	447.559	14.523	93.737	0.000	124.102
	Dean Rd	125.422	36.967	176.911	79.214	9.242

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17

	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	39.607	353.823	499.048	184.833
	Bryn Estyn Rd	15.843	0.000	6.601	29.045	22.444
	Cefn Rd	201.996	17.163	1.320	112.220	248.204
	A534 Holt Rd (SW)	447.559	14.523	93.737	0.000	124.102
	Dean Rd	125.422	36.967	176.911	79.214	9.242

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	32.339	288.895	407.471	150.915
	Bryn Estyn Rd	12.936	0.000	5.390	23.715	18.325
	Cefn Rd	164.929	14.014	1.078	91.627	202.658
	A534 Holt Rd (SW)	365.431	11.858	76.536	0.000	101.329

	Dean Rd	102.407	30.183	144.447	64.678	7.546
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Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.082	241.936	341.238	126.384
	Bryn Estyn Rd	10.833	0.000	4.514	19.860	15.347
	Cefn Rd	138.120	11.736	0.903	76.733	169.716
	A534 Holt Rd (SW)	306.031	9.930	64.095	0.000	84.858
	Dean Rd	85.761	25.277	120.968	54.165	6.319

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	39.721	683.378	38.818
	St Mellion Cres	21.666	0.000	22.569	2.708
	A534 Holt Rd (SW)	412.555	22.569	0.903	58.678
	Birkdale Rd	20.763	7.222	36.110	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	47.431	816.020	46.353
	St Mellion Cres	25.871	0.000	26.949	3.234
	A534 Holt Rd (SW)	492.631	26.949	1.078	70.068
	Birkdale Rd	24.793	8.624	43.119	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	58.090	999.417	56.770
	St Mellion Cres	31.686	0.000	33.006	3.961
	A534 Holt Rd (SW)	603.347	33.006	1.320	85.815
	Birkdale Rd	30.365	10.562	52.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	58.090	999.417	56.770
	St Mellion Cres	31.686	0.000	33.006	3.961
	A534 Holt Rd (SW)	603.347	33.006	1.320	85.815
	Birkdale Rd	30.365	10.562	52.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	47.431	816.020	46.353
	St Mellion Cres	25.871	0.000	26.949	3.234
	A534 Holt Rd (SW)	492.631	26.949	1.078	70.068
	Birkdale Rd	24.793	8.624	43.119	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	39.721	683.378	38.818
	St Mellion Cres	21.666	0.000	22.569	2.708
	A534 Holt Rd (SW)	412.555	22.569	0.903	58.678
	Birkdale Rd	20.763	7.222	36.110	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12

	Birkdale Rd	0.32	0.11	0.56	0.00
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Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0

	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/h r)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU- min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU- min/min)	Inclusive Total Queueing Delay (PCU- min)	Inclusive Average Queueing Delay (s)
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Greyhound Roundabout	A534 Holt Rd (NE)	1.19	333.58	95.29	F	906.52	1359.77	3801.13	167.72	42.23	3816.46	168.40
Greyhound Roundabout	Bryn Estyn Rd	0.17	9.74	0.20	A	61.62	92.43	13.35	8.67	0.15	13.35	8.67
Greyhound Roundabout	Cefn Rd	0.80	23.87	3.72	C	488.63	732.94	187.67	15.36	2.09	187.73	15.37
Greyhound Roundabout	A534 Holt Rd (SW)	0.91	43.87	7.74	E	567.78	851.67	300.89	21.20	3.34	300.96	21.20
Greyhound Roundabout	Dean Rd	0.51	8.83	1.04	A	356.50	534.75	61.11	6.86	0.68	61.12	6.86
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.69	7.16	2.21	A	935.33	1402.99	128.58	5.50	1.43	128.60	5.50
Holt Rd / Birkdale Rd	St Mellion Cres	0.11	6.31	0.12	A	57.22	85.82	7.72	5.40	0.09	7.72	5.40
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.50	4.93	0.99	A	607.50	911.25	65.01	4.28	0.72	65.01	4.28
Holt Rd / Birkdale Rd	Birkdale Rd	0.13	5.85	0.16	A	80.32	120.48	10.63	5.29	0.12	10.63	5.29

Existing Layout - 2035 Baseline + Dev, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2035 Baseline + Dev, AM Peak	2035 Baseline + Dev	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D7+D11

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				63.17	F
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.61	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
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Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
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Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697

Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500
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The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.908	14.529	199.314	300.842	71.273
	Bryn Estyn Rd	6.357	0.000	2.724	5.449	5.449
	Cefn Rd	189.883	3.632	2.724	84.452	178.894
	A534 Holt Rd (SW)	241.828	7.265	49.945	0.908	66.291
	Dean Rd	111.787	17.254	205.228	92.625	9.081

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.084	17.350	238.001	359.235	85.107
	Bryn Estyn Rd	7.590	0.000	3.253	6.506	6.506
	Cefn Rd	226.545	4.337	3.253	100.844	213.617
	A534 Holt Rd (SW)	288.184	8.675	59.639	1.084	79.157
	Dean Rd	133.291	20.603	245.063	110.604	10.843

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.328	21.249	291.490	439.971	104.235
	Bryn Estyn Rd	9.296	0.000	3.984	7.968	7.968
	Cefn Rd	277.235	5.312	3.984	123.509	261.626
	A534 Holt Rd (SW)	352.277	10.624	73.043	1.328	96.948
	Dean Rd	163.022	25.233	300.140	135.461	13.281

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.328	21.249	291.490	439.971	104.235
From	Bryn Estyn Rd	9.296	0.000	3.984	7.968	7.968

	Cefn Rd	277.235	5.312	3.984	123.509	261.626
	A534 Holt Rd (SW)	352.277	10.624	73.043	1.328	96.948
	Dean Rd	163.022	25.233	300.140	135.461	13.281

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.084	17.350	238.001	359.235	85.107
	Bryn Estyn Rd	7.590	0.000	3.253	6.506	6.506
	Cefn Rd	226.545	4.337	3.253	100.844	213.617
	A534 Holt Rd (SW)	288.184	8.675	59.639	1.084	79.157
	Dean Rd	133.291	20.603	245.063	110.604	10.843

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.908	14.529	199.314	300.842	71.273
	Bryn Estyn Rd	6.357	0.000	2.724	5.449	5.449
	Cefn Rd	189.883	3.632	2.724	84.452	178.894
	A534 Holt Rd (SW)	241.828	7.265	49.945	0.908	66.291
	Dean Rd	111.787	17.254	205.228	92.625	9.081

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

Turning Counts / Proportions (Vehicle) Holt Rd / Birkdale Rd (SW to SE)					
	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.816	13.621	424.055	6.357
	St Mellion Cres	58.118	0.000	28.151	25.427
	A534 Holt Rd (SW)	517.984	10.897	0.908	24.518
	Birkdale Rd	47.221	6.357	73.555	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

Timing: 10 seconds (10s) Holt Rd: Birkdale Rd: (0.11s 0.01s)					
	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01

	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	2.169	16.265	506.363	7.590
	St Mellion Cres	69.398	0.000	33.615	30.362
	A534 Holt Rd (SW)	618.524	13.012	1.084	29.277
	Birkdale Rd	56.386	7.590	87.832	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	2.656	19.921	620.166	9.296
	St Mellion Cres	84.995	0.000	41.170	37.185
	A534 Holt Rd (SW)	757.534	15.937	1.328	35.857
	Birkdale Rd	69.059	9.296	107.572	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.656	19.921	620.166	9.296
	St Mellion Cres	84.995	0.000	41.170	37.185
	A534 Holt Rd (SW)	757.534	15.937	1.328	35.857
	Birkdale Rd	69.059	9.296	107.572	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.169	16.265	506.363	7.590
	St Mellion Cres	69.398	0.000	33.615	30.362
	A534 Holt Rd (SW)	618.524	13.012	1.084	29.277
	Birkdale Rd	56.386	7.590	87.832	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.816	13.621	424.055	6.357
	St Mellion Cres	58.118	0.000	28.151	25.427
	A534 Holt Rd (SW)	517.984	10.897	0.908	24.518
	Birkdale Rd	47.221	6.357	73.555	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010

	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5

	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027

	Dean Rd	1.008	1.000	1.004	1.010	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

		To			
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

		To			
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/h r)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU- min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU- min/min)	Inclusive Total Queueing Delay (PCU- min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	1.06	137.92	36.09	F	739.46	1109.19	1037.87	56.14	11.53	1037.99	56.15
Greyhound Roundabout	Bryn Estyn Rd	0.08	10.40	0.09	B	25.46	38.18	5.48	8.61	0.06	5.48	8.61
Greyhound Roundabout	Cefn Rd	0.92	47.75	8.58	E	577.86	866.80	331.57	22.95	3.68	331.63	22.96
Greyhound Roundabout	A534 Holt Rd (SW)	0.74	18.80	2.76	C	455.75	683.62	140.28	12.31	1.56	140.30	12.31

Greyhound Roundabout	Dean Rd	0.75	16.66	2.87	C	533.38	800.06	141.57	10.62	1.57	141.59	10.62
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.42	4.05	0.76	A	565.41	848.12	51.08	3.61	0.57	51.09	3.61
Holt Rd / Birkdale Rd	St Mellion Cres	0.19	5.33	0.24	A	136.14	204.21	16.10	4.73	0.18	16.10	4.73
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.59	6.26	1.45	A	701.33	1051.99	90.62	5.17	1.01	90.62	5.17
Holt Rd / Birkdale Rd	Birkdale Rd	0.31	8.59	0.45	A	157.17	235.76	27.89	7.10	0.31	27.89	7.10

Existing Layout - 2035 Baseline + Dev, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
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							(min)							
2035 Baseline + Dev, PM Peak	2035 Baseline + Dev	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D8+D12

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				151.95	F
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				6.49	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	

Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	
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Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	

Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies	Vehicle Mix Varies	Vehicle Mix Varies	Vehicle Mix Source	PCU Factor for a	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
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	Over Time	Over Turn	Over Entry		HV (PCU)					
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	27.082	243.441	345.002	127.137
	Bryn Estyn Rd	10.833	0.000	4.514	19.860	15.347

	Cefn Rd	141.120	11.736	0.903	76.733	169.716
	A534 Holt Rd (SW)	313.559	9.930	64.095	0.000	84.858
	Dean Rd	88.761	25.277	120.968	54.165	6.319

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	32.339	290.693	411.966	151.814
	Bryn Estyn Rd	12.936	0.000	5.390	23.715	18.325
	Cefn Rd	167.929	14.014	1.078	91.627	202.658
	A534 Holt Rd (SW)	374.420	11.858	76.536	0.000	101.329
	Dean Rd	105.407	30.183	144.447	64.678	7.546

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	39.607	356.025	504.553	185.934
	Bryn Estyn Rd	15.843	0.000	6.601	29.045	22.444
	Cefn Rd	204.996	17.163	1.320	112.220	248.204
	A534 Holt Rd (SW)	458.569	14.523	93.737	0.000	124.102
	Dean Rd	128.422	36.967	176.911	79.214	9.242

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.000	39.607	356.025	504.553	185.934
	Bryn Estyn Rd	15.843	0.000	6.601	29.045	22.444
	Cefn Rd	204.996	17.163	1.320	112.220	248.204
	A534 Holt Rd (SW)	458.569	14.523	93.737	0.000	124.102
	Dean Rd	128.422	36.967	176.911	79.214	9.242

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

		To				
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	32.339	290.693	411.966	151.814
	Bryn Estyn Rd	12.936	0.000	5.390	23.715	18.325
	Cefn Rd	167.929	14.014	1.078	91.627	202.658
	A534 Holt Rd (SW)	374.420	11.858	76.536	0.000	101.329
	Dean Rd	105.407	30.183	144.447	64.678	7.546

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

		To				
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

		To				
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.082	243.441	345.002	127.137
	Bryn Estyn Rd	10.833	0.000	4.514	19.860	15.347
	Cefn Rd	141.120	11.736	0.903	76.733	169.716

	A534 Holt Rd (SW)	313.559	9.930	64.095	0.000	84.858
	Dean Rd	88.761	25.277	120.968	54.165	6.319

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	39.721	699.188	38.818
	St Mellion Cres	21.666	0.000	22.569	2.708
	A534 Holt Rd (SW)	421.589	22.569	0.903	58.678
	Birkdale Rd	20.763	7.222	36.110	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.000	47.431	834.899	46.353
	St Mellion Cres	25.871	0.000	26.949	3.234
	A534 Holt Rd (SW)	503.418	26.949	1.078	70.068
	Birkdale Rd	24.793	8.624	43.119	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	58.090	1022.538	56.770
	St Mellion Cres	31.686	0.000	33.006	3.961
	A534 Holt Rd (SW)	616.559	33.006	1.320	85.815
	Birkdale Rd	30.365	10.562	52.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

		To			
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

		To			
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	58.090	1022.538	56.770
	St Mellion Cres	31.686	0.000	33.006	3.961
	A534 Holt Rd (SW)	616.559	33.006	1.320	85.815
	Birkdale Rd	30.365	10.562	52.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	47.431	834.899	46.353
	St Mellion Cres	25.871	0.000	26.949	3.234
	A534 Holt Rd (SW)	503.418	26.949	1.078	70.068
	Birkdale Rd	24.793	8.624	43.119	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	39.721	699.188	38.818
	St Mellion Cres	21.666	0.000	22.569	2.708
	A534 Holt Rd (SW)	421.589	22.569	0.903	58.678
	Birkdale Rd	20.763	7.222	36.110	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4

	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000

	Dean Rd	1.000	1.000	1.000	1.000	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0

	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
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		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RF C	Max Delay (s)	Max Queue (PCU)	Max LO S	Average Demand (PCU/h r)	Total Junctio n Arrival s (PCU)	Total Queuein g Delay (PCU- min)	Average Queuein g Delay (s)	Rate Of Queuein g Delay (PCU- min/ min)	Inclusiv e Total Queuein g Delay (PCU- min)	Inclusiv e Average Queuein g Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	1.19	350.76	99.29	F	913.86	1370.79	4031.93	176.48	44.80	4057.37	177.59
Greyhound Roundabout	Bryn Estyn Rd	0.17	9.74	0.20	A	61.62	92.43	13.36	8.68	0.15	13.37	8.68
Greyhound Roundabout	Cefn Rd	0.80	23.96	3.73	C	488.60	732.90	188.35	15.42	2.09	188.41	15.42
Greyhound Roundabout	A534 Holt Rd (SW)	0.92	48.95	8.78	E	576.96	865.44	328.69	22.79	3.65	328.76	22.79
Greyhound Roundabout	Dean Rd	0.52	8.98	1.05	A	356.50	534.75	61.94	6.95	0.69	61.95	6.95
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.70	7.50	2.36	A	954.60	1431.90	135.64	5.68	1.51	135.66	5.68
Holt Rd / Birkdale Rd	St Mellion Cres	0.11	6.46	0.12	A	57.22	85.82	7.86	5.49	0.09	7.86	5.49

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.5 1	5.02	1.03	A	618.51	927.76	67.10	4.34	0.75	67.11	4.34
Holt Rd / Birkdale Rd	Birkdale Rd	0.1 3	5.92	0.16	A	80.32	120.48	10.72	5.34	0.12	10.72	5.34