



ttp consulting
transport planning specialists

BL Merthyr Limited

CYFARTHFA RETAIL PARK

**Transport Statement – Proposed
New Drive-thru Unit**

March 2026

TTP Consulting Ltd
27 Beak Street
London W1F 9RU
Tel: 020 7100 0753

www.ttp-consulting.co.uk

Registered in England: 09931399

Contents

1	INTRODUCTION	1
2	THE EXISTING SITUATION	2
	The Site and Surrounding Area	2
	Access on Foot	4
	Access by Cycle	5
	Access by Public Transport	6
	Accessibility Score	7
	Local Highway Network	8
	Method of Travel to Work	10
3	DEVELOPMENT PROPOSALS AND EFFECTS.....	11
	Proposal Overview	11
	Access Arrangements.....	12
	Trip Generation	12
	Traffic Impact	14
	Car Parking	16
	Cycle Parking	16
	Drive-thru Lane.....	16
	Delivery and Refuse Collection	16
	Travel Plan	16
4	SUMMARY AND CONCLUSION	17
	Summary	17
	Conclusion.....	18

Figures

Figure 1.1	-	Location Plan
Figure 2.1	-	Cyfarthfa Retail Park Layout
Figure 2.2	-	Existing (Northern) Park Layout
Figure 2.3	-	Walking Isochrone Map
Figure 2.4	-	Cycle Isochrone Map
Figure 2.5	-	Extract of Connectivity Tool
Figure 2.6	-	Survey Locations
Figure 3.1	-	Proposed Layout

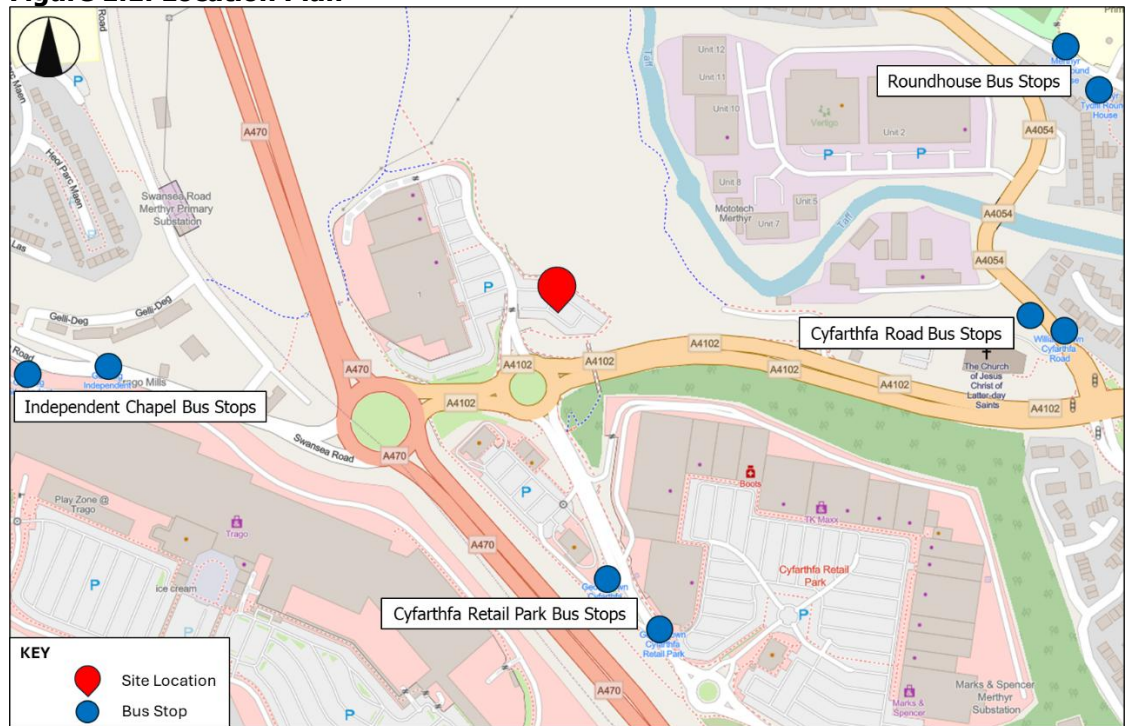
Appendices

- Appendix A - Application Plans
- Appendix B - Survey Output
- Appendix C - Connectivity Tool Report
- Appendix D - TRICS Output
- Appendix E - Flow Diagrams
- Appendix F - ARCADY Output
- Appendix G - Swept Path Assessments

1 INTRODUCTION

- 1.1 TTP Consulting has been appointed to provide highways and transport planning advice in relation to the proposals at Cyfarthfa Retail Park North (the Park) on Swansea Road in Merthyr Tydfil, South Wales.

Figure 1.1: Location Plan



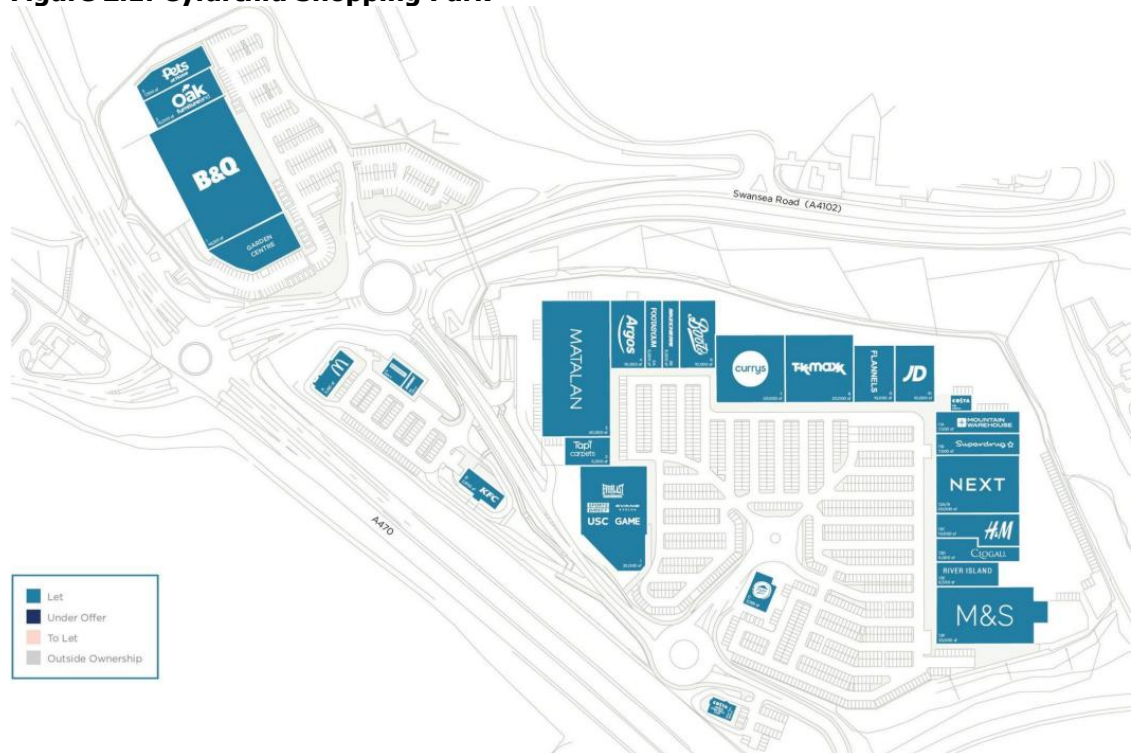
- 1.2 Cyfarthfa Retail Park North which is located to the north Swansea Road comprises of three retail units with B&Q, Pets at Home and Oak Furniture Land as tenants. There is parking for 292 cars to the east with deliveries undertaken via the yard to the rear.
- 1.3 The Application Site, hereafter referred to as the Site, is located east of Trade Point Unit and currently comprises overflow car park with a total of 88 spaces; it is bound by a buffer of trees from the A4102 Swansea Road to the south and Merthyr Tydfil Iron Works to the north and east.
- 1.4 It is proposed to construct a new fast-food drive thru unit measuring 232sqm along with the associated car parking, refuse store and landscaping; the new Unit would be occupied by Burger King. The report considers the effect of development in transport terms including car parking, cycle parking, trip generation and deliveries and servicing.

2 THE EXISTING SITUATION

The Site and Surrounding Area

- 2.1 Cyfarthfa Shopping Park comprises of over 30,000sqm of floorspace split across two main areas with parking for an estimated 1,460 cars. There are a total of 27 units across the wider Shopping Park the majority of which are located to the south of Swansea Road. Existing tenants include B&Q, Curry's, Matalan and Next along with KFC, Greggs, McDonald's and Subway plus Costa all of which are located to the south of Swansea Road. In addition, there is consent for a new Drive-thru unit to be constructed on the parcel of land to the immediate south of the roundabout access to the main car park.

Figure 2.1: Cyfarthfa Shopping Park



- 2.2 The Site is located on the overflow car park to the north of Swansea Road; there is parking for up to 292 cars to serve B&Q, Pets at Home and Oak Furniture Land; the provision includes 88 spaces in the overflow car park. Access to the Park is taken from the northern arm of the Swansea Road Roundabout. All servicing activity to the existing units is taken from the yard at the rear of the units.
- 2.3 The overflow car park is bound by vegetation buffers from the A4102 Swansea Road to the south and Merthyr Tydfil Iron Works to the north and east. **Figure 2.2** shows the existing Site Layout.

Figure 2.2: Existing (Northern) Park Layout

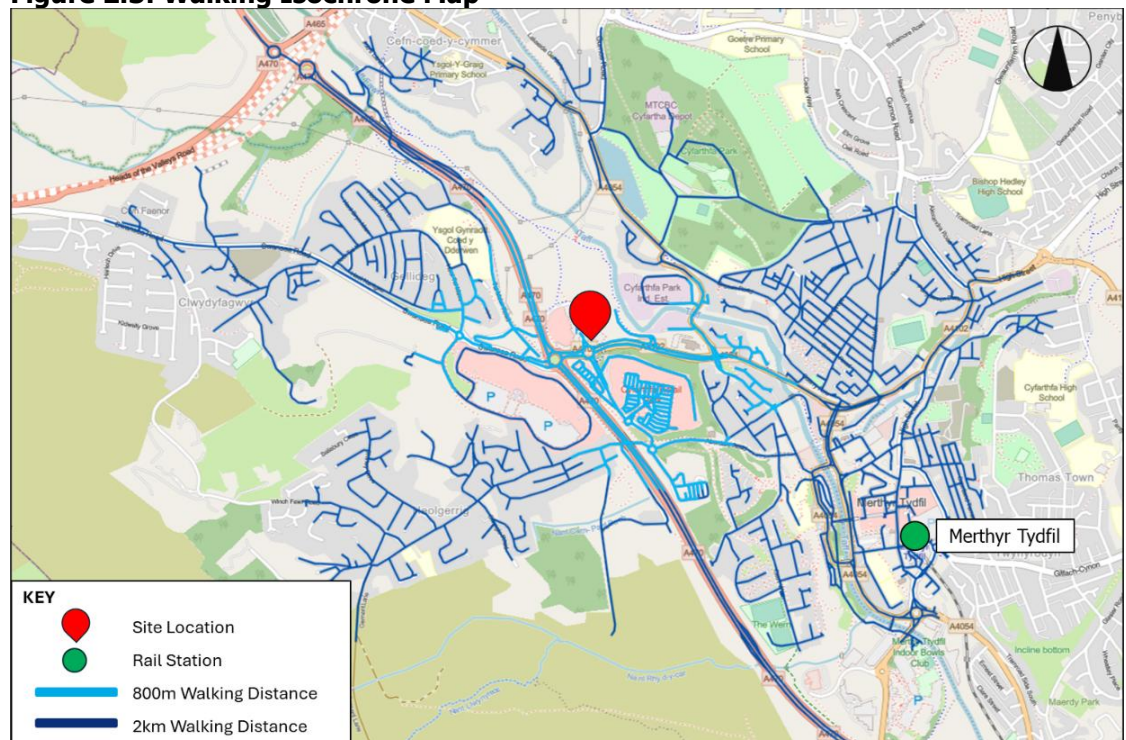


- 2.4 There is a mix of uses in the local area which includes the Trago department store to the west of the A470 along with commercial to the east and south, with residential to the east and west.
- 2.5 Surveys were conducted at the Swansea Road junctions with the Site access and the A470 on the 7th and 10th of February 2026 to cover the weekday morning and evening peak periods plus the Saturday peak trading times. The surveys also picked up movements into and out of the car park. The results of the surveys, which are discussed in more detail later in the report, identified the peak hours as 0815 – 0915 and 1600 – 1700 in the week, and 1245 – 1345 on the Saturday, with a copy of the survey results included at **Appendix B**.

Access on Foot

- 2.6 Walking is considered to be a suitable mode of transport to replace car and public transport journeys of up to 2km in length, with factors such as weather, health and access to a car along with facilities and journey purpose all influencing a person's choice to walk.
- 2.7 Footways and crossing opportunities on Swansea Road provide connections to the neighbouring units and local bus stops, whilst a footbridge over Swansea Road links to north and south sections of the retail park. There is a dropped kerb, tactile paved crossing opportunity at the entrance to the Cyfarthfa Retail Park North. A shared footway/cycleway runs along the north side of Swansea Road to the east of the site also linking to residential catchments within Merthyr Tydfil.
- 2.8 **Figure 2.3** provides details of an 800m (10-minute) and 2km (25-minute) catchment zone surrounding the site. The map shows that several residential areas within the area are accessible within a 25-minute walk.

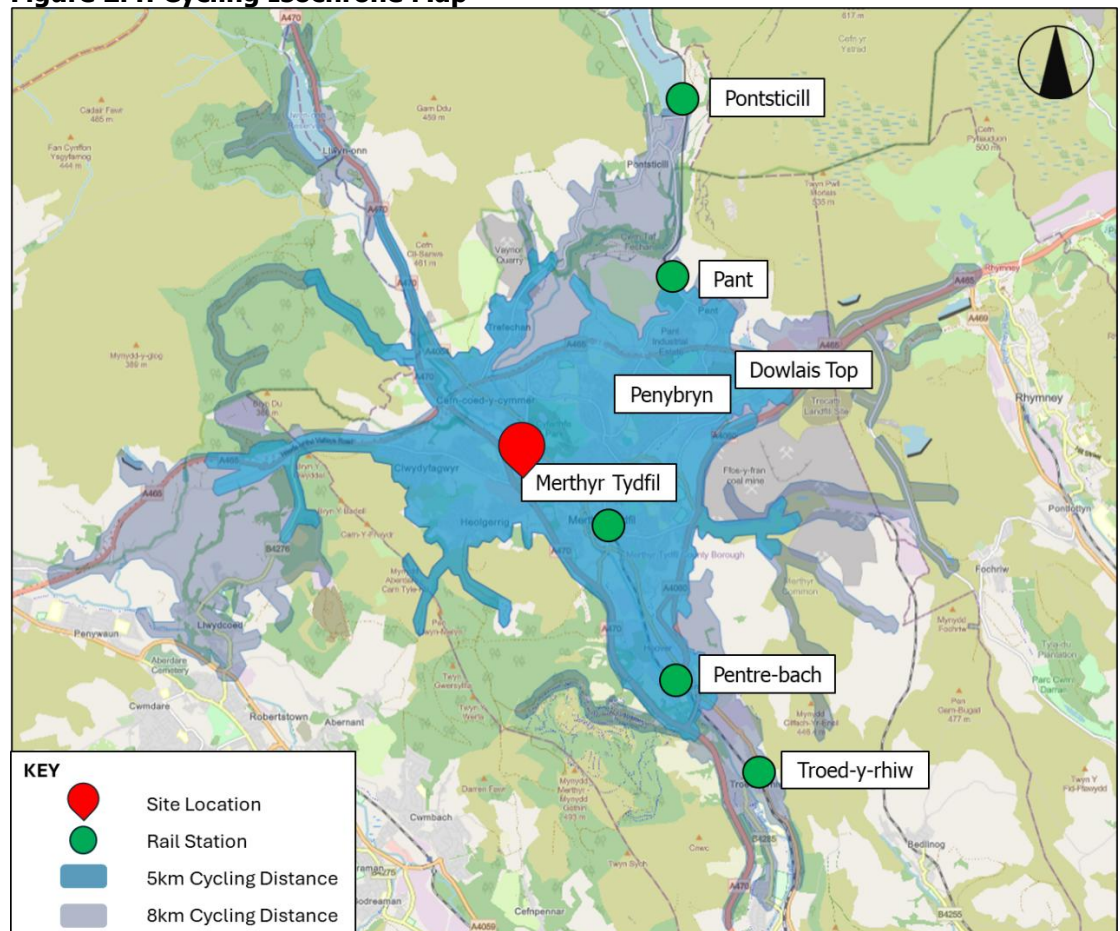
Figure 2.3: Walking Isochrone Map



Access by Cycle

- 2.9 It is generally accepted that cycling is a sustainable mode of travel for journeys up to 8km in length, with similar factors to walking, i.e. health, weather and access to a car along with journey purpose influencing a person's choice to cycle. As noted, there is a shared footway / cycleway along the northern side of Swansea Road to the east that facilitates cycle journeys to the wider area.
- 2.10 **Figure 2.4** shows a 5km and 8km cycling catchment from the site which includes areas such as Penybryn, Pentre-bach and Pant within 5km and Troed-y-rhiw and Dowlais Top within an 8km cycle.

Figure 2.4: Cycling Isochrone Map



Access by Public Transport

- 2.11 The closest bus stop which is located approximately 300m to the south of the Site provides access to buses on Routes 9, 25, 76, 89, 172 and 74. The stop is accessed via the footbridge connection over Swansea Road. **Table 2.1** provides a summary of the routes and frequency of buses calling at the stop.

Table 2.1: Summary of Local Bus Services					
Bus Stop	Route		Frequency (every 'x' minutes)		
	No.	Destination	Mon-Fri	Saturday	Sunday
Cyfarthfa Retail Park Bus Stop	9	Cwmaman Glynhafod Terminus – Merthyr Bus Station	30	30	60
	25	Merthyr Tydfil Bus Station – Pontsticill Circular	20	20	No Service
	76	Abergavenny Bus Station – Merthyr Bus Station	60	60	No Service
	89	Aberdare Bus Station – Merthyr Bus Station	No Service		120
	172	Aberdare Bus Station – Bridgend Bus Station	60	60	No Service
	T4	Llanidloes Millenium Garden – Merthyr Tydfil Bus Station	60	60	120
Round House Bus Stop	53	Hanbury Square – Merthyr Bus Station	60	60	No Service

- 2.12 The closest railway station is Merthyr Tydfil Station, a 1.9km (24 minute) walk away from the site or a 10 minute cycle. The station can also be accessed by a 4 minute journey on bus routes 9, 25, 76 or T4 from the Cyfarthfa Retail Park. The station is served by trains operated by Transport for Wales, with connections to Aberdare, Cardiff Central and intermediate stations. Given the nature of the proposed development, it is unlikely that rail will be a mode of transport used by staff or visitors.

Accessibility Score

- 2.13 The Department for Transport (DfT) Connectivity Tool Lite allows an understanding of accessibility to everyday services including education, leisure, community, health, shopping, residential and workplaces by various modes of transport. The tool scores the proposed development site and overall access rating of 62, an above average score, with public transport access scoring 63, access on foot scoring 61 and cycling scoring 64. Overall, the site has an above average access score and scores very highly on access to shopping. The full connectivity report is attached at **Appendix C**.

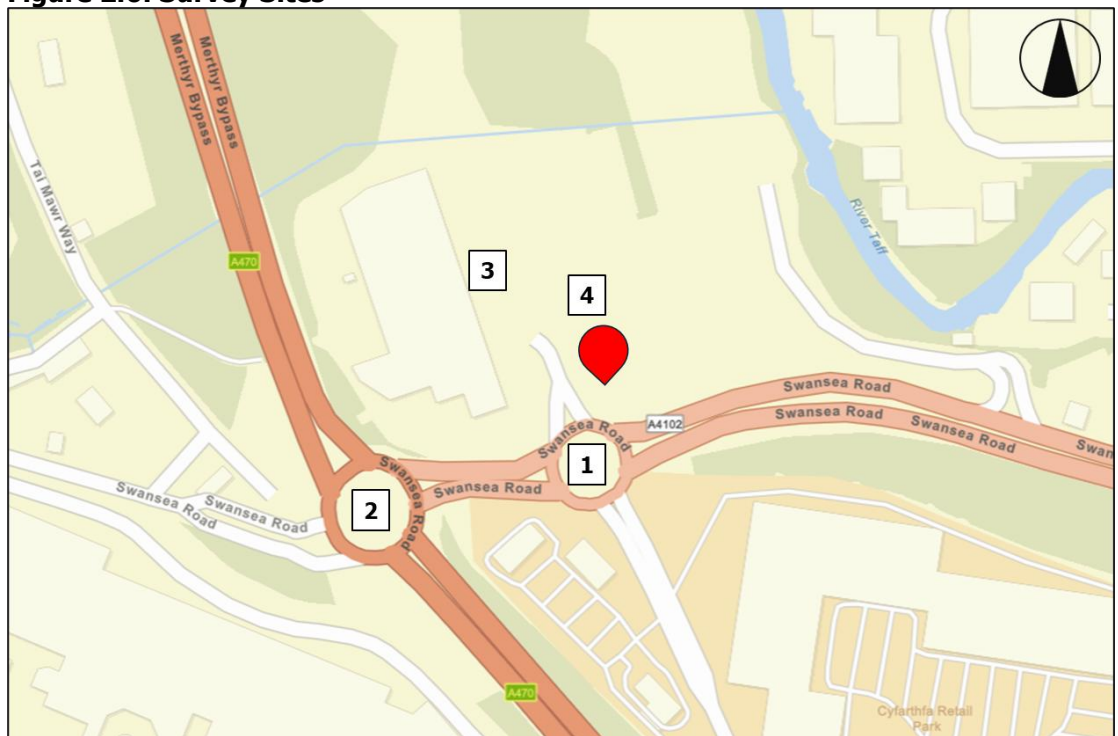
Figure 2.5: Extract from Connectivity Tool



Local Highway Network

- 2.14 Swansea Road is a two-way road that runs in a broadly east – west orientation, connecting to the A470 in the west and beyond and Cyfarthfa Road in the east; it continues as Bethesda Street east of Cyfarthfa Road. The road is a dual carriageway in the vicinity of the Park, with two lanes in each direction.
- 2.15 The A470 is a dual carriageway linking Mermaid Quay in Cardiff Bay and Llandudno. There are two lanes in each direction widening to three at strategic junctions and forms part of the Welsh strategic road network.
- 2.16 Surveys were conducted on the 7th and 10th of February 2026 with a summary of the surveys as follows:
- Survey Location 1: Turning counts and queues at 5 minute intervals (07:00 – 10:00 and 16:00 – 19:00 in the week as well as 10:00 – 16:00 on a Saturday).
 - Survey Location 2: Video of the junction at Location 1.
 - Survey Location 3 and 4: Car park accumulation on the two separate sides of the Cyfarthfa Retail Park North from the primary car park and the overflow section.

Figure 2.6: Survey Sites



2.17 The surveys recorded queues at 5-minute intervals at the Site access roundabout and along Swansea Road at the A470 roundabout with a summary of the average and maximum queues by lane for the peak hours and set out in **Tables 2.2** and **2.3** respectively.

- The peak hour average and maximum queues relate to the AM Peak Hour of 0815 – 0915, the PM Peak Hour of 1600 – 1700 and the Saturday Peak Hour of 1245 – 1345.
- The period average and maximum queues relate to the AM Period of 0700 – 1000, the PM Period of 1600 – 1900 and Saturday 1000 – 1600.
- No queues were recorded on the A470 northern and southern approaches.
- The queues are across all lanes on the approaches

2.18 The surveys recorded relatively short queues on the approaches to the roundabouts with the longest queues recorded on the southern approach to the Site Access roundabout during the PM Peak Hour and on the Swansea Road eastern and western approach on the Saturday; further interrogation of the surveys revealed that the queues were relatively short lived.

Table 2:2: Average and Maximum Queues (Site Access Roundabout)												
	Swansea Rd (East App)			Southern Approach			Swansea Rd (West App)			Northern Approach		
	AM	PM	SAT	AM	PM	SAT	AM	PM	SAT	AM	PM	SAT
Peak Hr Avg.	0.4	2.2	4.1	1.6	6.4	1.0	0.3	0.4	8.6	0.3	0.4	2.4
Peak Hr Max	2	12	11	9	21	6	3	3	17	3	2	6
Period Avg.	0.2	1.4	2.1	0.6	2.6	1.1	0.6	0.2	3.2	0.1	0.2	1.1
Period Max	2	12	22	9	21	16	8	3	26	3	2	6

Table 2:3: Average and Maximum Queues (Gellideg Roundabout)									
	Swansea Rd (East App)			Southern Approach	Swansea Rd (West App)			Northern Approach	
	AM	PM	SAT		AM	PM	SAT		
Peak Hr Avg.	1.7	3.9	3.9		1.0	1.3	2.0		
Peak Hr Max	6	13	11		3	4	9		
Period Avg.	1.0	2.5	2.6		0.9	1.0	2.0		
Period Max	6	13	13		7	5	9		

Method of Travel to Work

- 2.19 The 2011 Census has been examined to establish the method of journey to work for the workplace population. The data for the super output area – middle layer (Merthyr Tydfil 003) in which the site is located is summarised in **Table 2.4**. Data from the 2021 Census is not deemed suitable for travel to work information on the grounds it was undertaken during the COVID-19 pandemic when more people than normal worked from home due to travel restrictions.
- 2.20 The table shows that 78% of the population travel to work as either a driver or passenger of a car, whilst 10% opt for active travel modes including walking and cycling. A further 11% utilise public transport opportunities.

Table 2.4: 2011 Method of Travel to Work (Merthyr Tydfil 003)		
Mode	Number	Percentage
Rail	22	1%
Bus	191	10%
Taxi	21	1%
Motorcycle	4	0%
Car Driver	1,289	65%
Car Passenger	250	13%
Bicycle	7	0%
Walking	191	10%
Total	1,975	100%

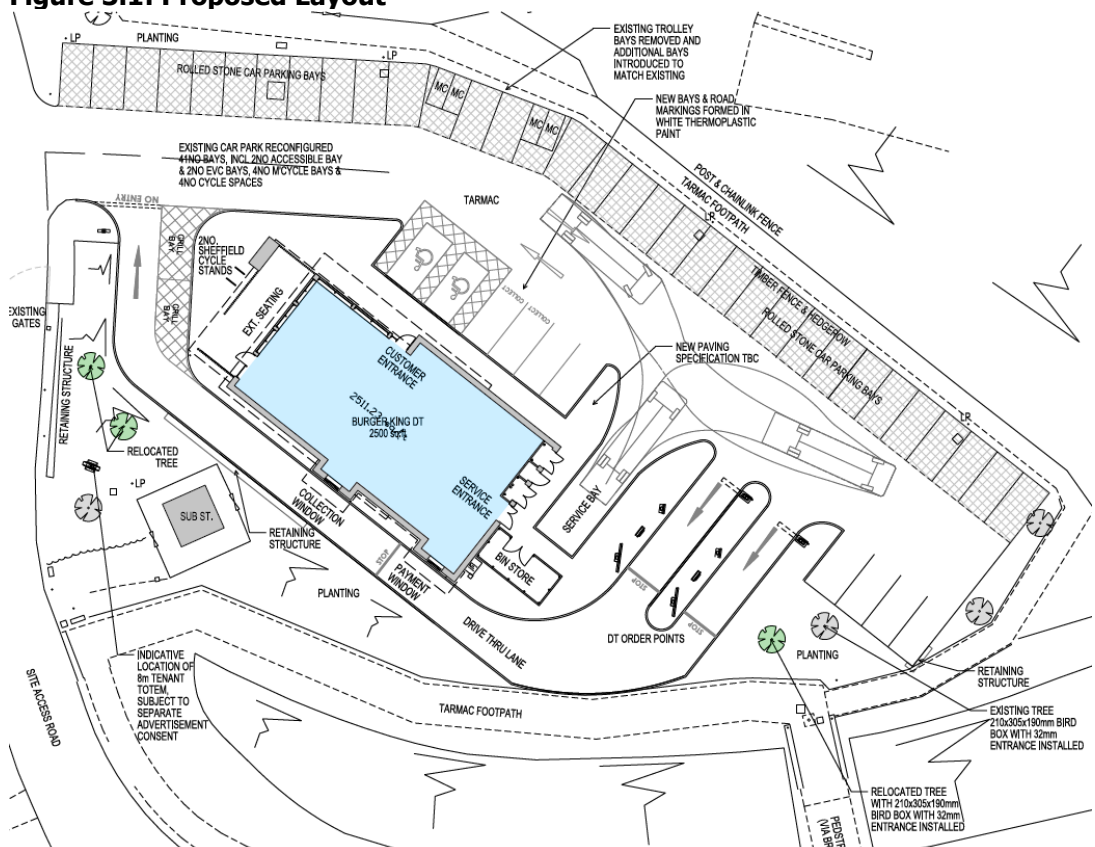
3 DEVELOPMENT PROPOSALS AND EFFECTS

Proposal Overview

3.1 The proposals include the construction of a Drive Thru unit along with alterations to the car parking as illustrated in **Figure 3.1** and the plans are contained in **Appendix A** with a summary as follows:

- The proposed Drive Thru unit would have a gross floor area of 232sqm GIA. It is envisaged that the building would be occupied by Burger King.
- The car park would be configured with an overall loss of 47 spaces in an underutilised part of the car park, with 41 spaces provided in the vicinity of the unit including 2 spaces reserved for Blue Badge holders and 2 bays for large order collections.
- Parking will be provided for 4 bicycles.
- Deliveries will be made from a service bay to the southeast of the unit.

Figure 3.1: Proposed Layout



Access Arrangements

- 3.2 The proposals do not include any alterations to the access arrangements.

Trip Generation

- 3.3 The potential number of trips associated with the proposed unit has been estimated based on trip rate information from the TRICS database considering surveys for drive-thru restaurants in Wales. Two outputs were taken from the TRICS programme, separating weekday and weekend survey results in order to provide a representative trip generation prediction, taking into account the varying levels of demand created by days of the week. Trips were estimated for the weekday morning and evening peak periods to coincide with the observed peak hours and for the Saturday; the weekday morning peak hour has been included for completeness notwithstanding that Burger King does not typically open until after 10am.

- Weekday surveys were taken from edge of town centre and edge of town locations in Wales on two Thursdays and one on a Friday.
- Weekend surveys were taken from edge of town locations.

- 3.4 **Table 3.1** provides a summary of the trip rates and resultant vehicular movements for the peak periods along with the peak hours as identified by the surveys, with a total of 116 two-way trips in the weekday morning peak hour (0815 – 0915) and 81 two-way trips in the weekday evening peak hour (1600 – 1700) with 128 two-way trips in the Saturday peak hour (1245 – 1345).

Table 3.1: Trip Rates & Resultant Flows					
		Trip Rates		Flows*	
		Arrive	Depart	Arrive	Depart
Weekday	0700 - 0800	19.877	17.055	46	40
	0800 – 0900	26.135	24.663	61	57
	0900 - 1000	24.172	24.785	56	58
	1600 – 1700	16.828	17.974	39	42
	1700 – 1800	19.471	18.062	45	42
	1800 - 1900	17.269	17.885	40	41
Saturday	1000 – 1100	15.051	15.485	35	36
	1100 – 1200	20.260	16.787	47	39
	1200 – 1300	28.509	26.339	66	61
	1300 – 1400	27.062	29.522	63	68
	1400 - 1500	25.036	22.287	58	52
Peak Hours	0815 – 0915	25.644	24.694	59	57
	1600 – 1700	16.828	17.974	39	42
	1245 - 1345	28.147	27.135	65	63

*based on 232sqm

3.5 Not all trips would be new to the local or wider highway network, with people having a choice over when and where they shop, with the proposed new restaurant offering an alternative to the existing facilities to the south; secondary trips are typically classified as diverted, linked or pass-by / pass-by diverted with a summary as follows:

- Diverted trips are those that divert from an existing restaurant either on the Park or the immediate area, or further afield.
- Linked Trips are those that visit the new facility in addition to existing tenants on the Cyfarthfa Retail Park.
- Pass-by trips are those that visit the site from the adjacent highway network, with a higher proportion of pass-by trips on higher order or busier roads.
- Pass-by diverted trips are those that divert from a nearby highway such as the A470.

3.6 **Table 3.2** sets out the estimated number of trips by type for the peak hours, with 30% assumed to be diverted from the nearby facilities, 10% each pass-by or pass-by diverted and 50% of the trips as new. Although there would be some, no trips are assumed to be linked with a visit to another tenant on the (northern) Park for assessment purposes. The exercise suggests that there could be 59 new trips in the weekday morning peak hour (0815 – 0915) with 41 new trips in the weekday evening peak hour (1600 – 1700) and 64 two-way trips in the Saturday peak hour (1245 – 1345). The exercise is considered to represent a robust assessment insofar that the proposed tenant, Burger King, does not typically trade during the weekday morning peak hour, whilst the vast majority of trips during commuter peak hours are expected to be diverted from another existing

Table 3.2: Assumed Trips by Type						
	AM Peak (0815 – 0915)		PM Peak (1600 – 1700)		Saturday (1245 – 1345)	
	Arrive	Depart	Arrive	Depart	Arrive	Depart
Diverted	18	17	12	13	20	19
Linked	0	0	0	0	0	0
Pass-by	6	6	4	4	7	6
Pass-by / Divert	6	6	4	4	7	6
New	30	29	20	21	33	31
Total	59	57	39	42	65	63

Traffic Impact

- 3.7 Flows Diagrams 01 through 09 set out the Observed and Development Scenario flows as follows:
- Flow 01 – Observed Scenario (AM Peak 0815 – 0915)
 - Flow 02 - Observed Scenario (PM Peak 1600 – 1700)
 - Flow 03 – Observed Scenario (Saturday 1245 – 1345)
 - Flow 04 – Development Flows (AM Peak 0815 – 0915)
 - Flow 05 - Development Flows (PM Peak 1600 – 1700)
 - Flow 06 – Development Flows (Saturday 1245 – 1345)
 - Flow 07 – Development Scenario (AM Peak 0815 – 0915)
 - Flow 08 - Development Scenario (PM Peak 1600 – 1700)
 - Flow 09 – Development Scenario (Saturday 1245 – 1345)
- 3.8 The observed Scenario flows are based on the February 2026 surveys with the distribution of the development flows based on the pro-rata turning movements at the junctions. The exercise suggests, as expected, that the highest potential changes would be along the Swansea Road between the A470 and the Site Access.
- 3.9 The highest potential increases are expected to occur along Swansea Road west of the Park access with between 15 and 25 additional movements each-way; as previously noted, these are considered to represent a robust assessment with the actual flows likely to be lower with a higher proportion of secondary trips, particularly during the commuter peak hours, with most trips associated with the proposed development likely to already be on the local or wider highway network. As such, the proposed development is not expected to result in any noticeable changes to the local highway network.
- 3.10 Notwithstanding this, the capacity of the Swansea Road / Site Access junction has been assessed using ARCADY with a summary of the results set out in **Table 3.3** and the full output included at **Appendix F**. The result of the modelling demonstrates that whereas the proposed development could result in increased levels of the ratio of flow to capacity and queues, the proposed development would not result in any noticeable changes in traffic conditions.

Table 3.3: Summary of ARCADY Output

	AM					PM					SAT				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	[Lane Simulation] - 2026 - Observed														
A - Cyfarthfa Retail Park North	D1	0.2	7.34		A	D2	0.3	6.95		A	D3	0.6	8.06		A
B - Swansea Road (E)		1.4	7.43		A		1.8	8.01		A		1.0	6.75		A
C - Cyfarthfa Retail Park South		0.9	6.69		A		2.9	11.70		B		5.1	16.86		C
D - Swansea Road (W)		2.6	8.04		A		2.3	7.45		A		3.1	8.86		A
	[Lane Simulation] - 2030 - Dev Scenario														
A - Cyfarthfa Retail Park North	D4	0.3	7.36		A	D5	0.5	6.84		A	D6	0.8	8.48		A
B - Swansea Road (E)		1.5	7.27		A		1.7	7.82		A		1.0	6.93		A
C - Cyfarthfa Retail Park South		1.0	6.61		A		3.9	12.69		B		4.2	15.97		C
D - Swansea Road (W)		2.8	7.64		A		1.9	7.35		A		2.9	8.92		A

Car Parking

- 3.11 There is currently parking for around 1,460 cars in the Cyfarthfa Retail Park including 292 spaces in the northern section, 88 of which are located in the overflow car park in which the development is proposed. The proposals result in the loss of 47 spaces, thereby reducing the number in the overflow car park to 41 and in the wider northern car park to 245; the provision includes 2 spaces reserved for Blue Badge holders and 2 spaces for large order collections at the end of the drive-thru lane. As well as this, parking is provided for 4 motorcycles / mopeds.
- 3.12 The resultant provision of 245 spaces is deemed sufficient and equates to a ratio of 1 space per 25sqm GFA for the northern section of the Park, with opportunities to travel by modes other than the car or use parking is the wider car park. Furthermore, the dwell time for users of the new restaurant will be relatively short when taking into consideration a typical split of 50 / 50 use as "Eat In" and "Drive-thru" with an estimate of the potential demand for parking set out in **Table 3.4**. The data suggests a peak demand for 17 spaces on the weekday and up to 31 spaces on the Saturday, both of which can be accommodated adjacent to the new restaurant.

Table 3.4: Estimated Parking Accumulation for Proposed Drive-Thru

	Weekday			Saturday		
	Arrive	Depart	Accum.	Arrive	Depart	Accum.
07:00-08:00	46	40	11	21	16	13
08:00-09:00	61	57	15	18	17	14
09:00-10:00	56	58	13	35	30	19
10:00-11:00	34	36	11	35	36	18
11:00-12:00	36	31	16	47	39	26
12:00-13:00	50	49	17	66	61	31
13:00-14:00	50	50	17	63	68	25
14:00-15:00	35	44	8	58	52	32
15:00-16:00	46	40	14	47	53	26
16:00-17:00	39	42	11	44	47	23
17:00-18:00	45	42	14	38	39	22
18:00-19:00	40	41	13	50	48	24

Car Parking

- 3.13 There is currently parking for approximately 1,460 cars across the wider Park which includes 292 spaces to the north of Swansea Road serving B&Q, Oak Furniture Land and Pets at Home; the provision (to the north of Swansea Road) includes 88 spaces in the overflow car park.
- 3.14 The proposals include the loss of 47 parking spaces from the overflow car park thereby reducing the overall number to 245 spaces (north of Swansea Road) and 1,413 spaces overall. Whereas surveys have not been conducted within the car park to inform the application, the loss equates to circa 3% of the overall provision and would not impact on the availability of parking.

Cycle Parking

- 3.15 The proposed scheme includes parking for up to 4 bicycles with 2 Sheffield Stands located adjacent to the proposed unit. The CSS Wales Parking Standards outline the requirement for one long stay cycle parking space per 10 members of staff at a drive thru restaurant, with no requirement for short stay cycle parking.

Drive-thru Lane

The proposed drive-thru lane has been sized to accommodate all vehicles expected to use it with the entrance located at the far end of the restaurant away from the access road so as to avoid the potential for vehicles to block the access to the wider car park; tracking for a large car and 4.6t vehicle passing through the Drive-thru lane are included at **Appendix G**.

Delivery and Refuse Collection

- 3.16 It is proposed that deliveries and refuse collection take place via the car park in common with most (drive-thru) restaurants throughout the UK, including the existing KFC and McDonald's restaurants immediately to the south of the Site Access roundabout. However, unlike the existing KFC and McDonald's, the proposed new restaurant would have a dedicated loading bay to the side of the building. Swept path assessments showing a 12m rigid vehicle using the loading bay are included at **Appendix G**.
- 3.17 It is anticipated that there would typically be 4 – 5 deliveries per week, with waste collected by a private contractor daily and recycling taken away by the delivery vehicle.

Travel Plan

- 3.18 A draft Travel Plan has been submitted alongside the application setting out how the Occupier will promote sustainable travel for staff.

4 SUMMARY AND CONCLUSION

Summary

4.1 TTP Consulting has been appointed to provide traffic and transport advice in relation to the proposals to construct a new drive-thru restaurant on the Cyfarthfa Retail Park northern overflow car park.

4.2 In summary:

- Cyfarthfa Retail Park comprises of more than 30,000sqm of floorspace across a number of terraces with parking for approximately 1,460 cars. Existing tenants include Curry's, Next and M&S along with KFC, McDonald's and Subway all of which are located south of Swansea Road, with B&Q, Oak Furniture Land and Pets at Home to the north of Swansea Road; there is currently parking for up to 292 cars to the north of Swansea Road which includes 88 spaces in the overflow car park.
- The proposals are to construct a new restaurant with drive-thru facilities on the northern overflow car park with the loss of 47 parking spaces.
- The potential number of trips has been estimated based on trip rate information from the TRICS database with the resultant flows distributed onto the local highway network taking into consideration existing turning movements and secondary trips; in this regard, it is anticipated that although the majority of trips are likely to be diverted from an existing facility, particularly during commuter peak periods, relatively conservative assumptions have been adopted.
- The Site Access has been modelled using ARCADY with the results demonstrating that the proposed development would not result in a noticeable change in traffic conditions. It should be noted that the trip rates are predominantly based on McDonald's restaurants which are typically busier than other operators.
- No changes are proposed to the access arrangements for the Park.
- The overall number of car parking spaces will be reduced to 41 in the vicinity of the new restaurant and to 245 north of Swansea Road; the resultant provision which includes 2 spaces reserved for Blue Badge holders equates to 1 space per 25sqm and is considered sufficient by the tenants and Applicant.
- Parking is provided for up to 4 bicycles.
- Deliveries will take place via the car park in common with other drive-thru restaurants on the wider Park and throughout the UK.

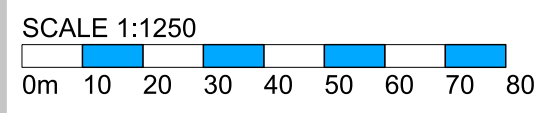
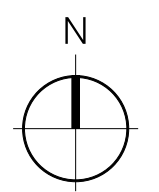
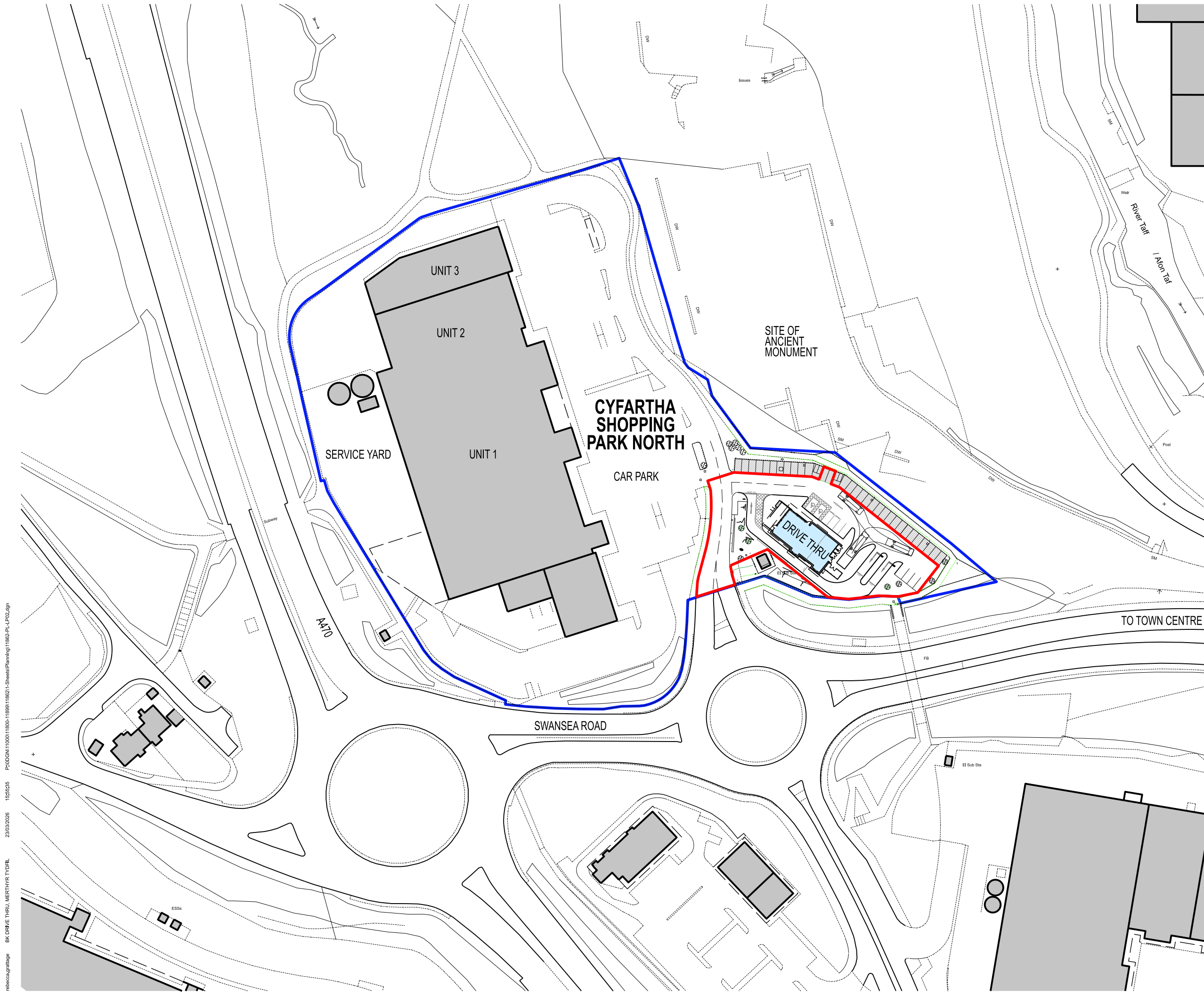
- A Travel Plan has been submitted alongside the application setting out how the Occupier will promote sustainable travel for staff.

Conclusion

- 4.3 The proposed development would not result in any unacceptable impacts on the local highway or transport network.

Appendix A

(Application Plans)



ORDNANCE SURVEY LICENCE

REPRODUCED FROM ORDNANCE SURVEY MASTERMAP DIGITAL DATA BY PERMISSION OF ORDNANCE SURVEY®. ON BEHALF OF HIS MAJESTY'S STATIONARY OFFICE. © CROWN COPYRIGHT AND DATABASE RIGHTS 2025. OS AC0000813445

- KEY
- APPLICATION BOUNDARY
 - OWNERSHIP BOUNDARY

REV.	DATE	NOTES	INIT.
CLIENT / PROJECT			
BRITISH LAND			
BURGER KING DT			
MERTHYR TYDFIL			
DRAWING TITLE			
PROPOSED LOCATION PLAN			

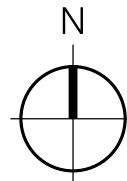
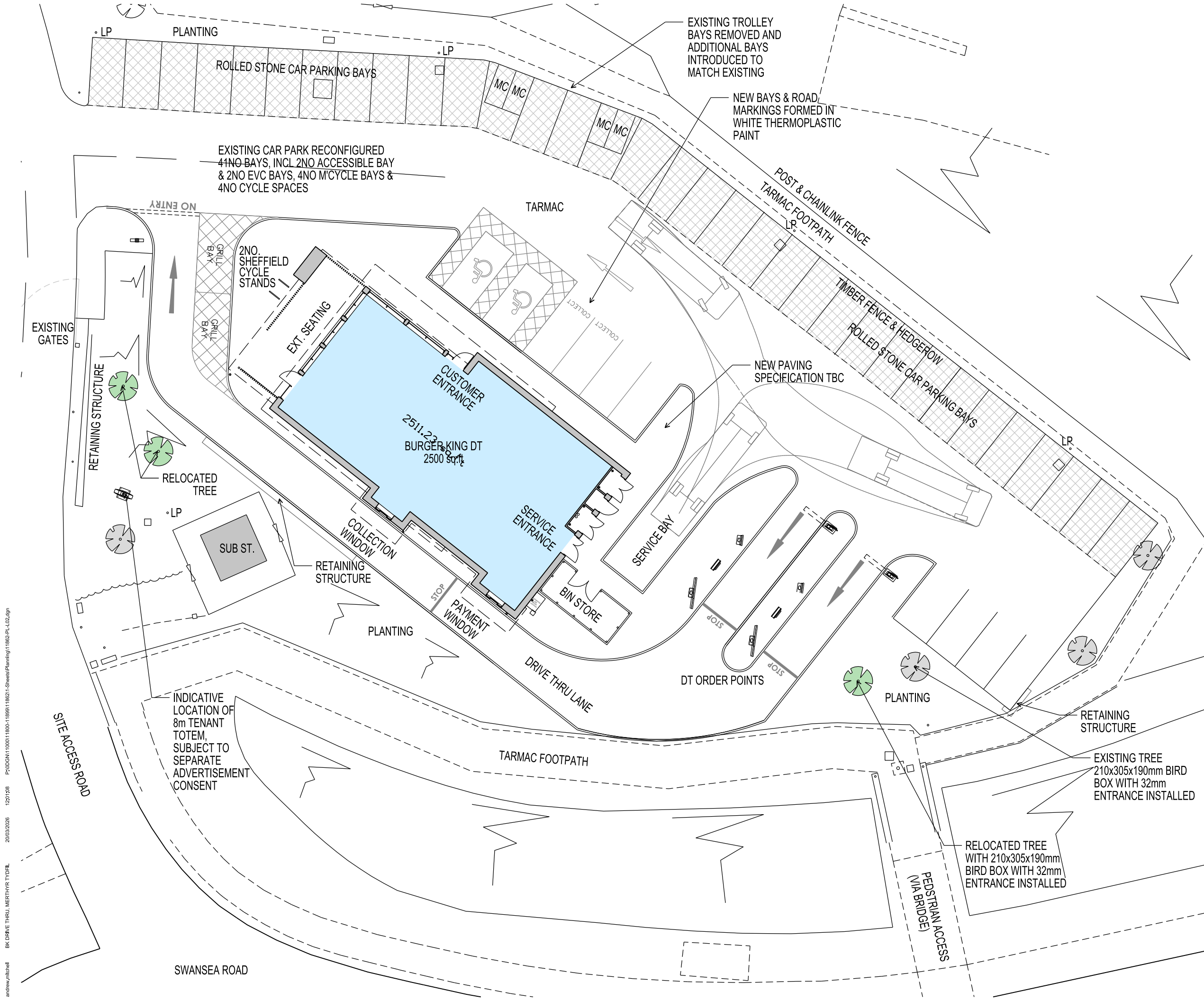
STATUS				
PLANNING				
DATE		DRAWN		SCALE @ A3
MAR 2026		RG		1:1250
PROJECT NUMBER	UNIT / BLOCK	CI / SFB CODE	TYPE & NUMBER	REVISION LETTER
DRAWING NO.				
11862	PL	LP02	-	
Site Location Plans	L	GA Plans	P	Elevations
Sections	S	Details	D	Prefix: Colour

THE RATCLIFFE GROVES PARTNERSHIP

MANCHESTER
105 MANCHESTER ROAD
BURY LANCASHIRE BL9 0TD
T. 0161 797 6000 E. manchester@rgp.uk.com
www.rgp.uk.com

LONDON
19 BEDFORD ROW
LONDON WC1R 4EB
T. 020 7600 6666 E. london@rgp.uk.com

23/03/2026 15:55:35 P:\000\11000\11800-11899\11862-1-Sheets\Planning\11862-PL-P02.dgn rebecca.grafage BK DRIVE THRU, MERTHYR TYDFIL



SCALE 1:250

0m 2.5 5 7.5 10 12.5 15

ORDNANCE SURVEY LICENCE

REPRODUCED FROM ORDNANCE SURVEY MASTERMAP DIGITAL DATA BY PERMISSION OF ORDNANCE SURVEY®. ON BEHALF OF HIS MAJESTY'S STATIONARY OFFICE. © CROWN COPYRIGHT AND DATABASE RIGHTS 2025. OS AC0000813445

REV.B 20.03.26	DRAWING UPDATED	AM
REV.A 16.03.26	UPDATED TO CLIENT COMMENTS	RG
REV. DATE	NOTES	INIT.

CLIENT / PROJECT

BRITISH LAND

BURGER KING DT

MERTHYR TYDFIL

DRAWING TITLE

PROPOSED SITE PLAN

STATUS				
PLANNING				
DATE	DRAWN	SCALE @ A3		
MAR 2026	CMP	1:250		
PROJECT NUMBER	UNIT / BLOCK	CI / SFB CODE	TYPE & NUMBER	REVISION LETTER
DRAWING NO.				
11862	PL	L02	B	
Site Location Plans	L	GA Plans	P	Elevations
Sections	S	Details	D	Prefix: Colour

THE RATCLIFFE GROVES PARTNERSHIP

MANCHESTER
105 MANCHESTER ROAD
BURY LANCASHIRE BL9 0TD
T. 0161 797 6000 E. manchester@rgp.uk.com
www.rgp.uk.com

LONDON
19 BEDFORD ROW
LONDON WC1R 4EB
T. 020 7600 6666 E. london@rgp.uk.com



Appendix B

(Survey Output)



Midlands

Haseley Office Centre,
Firs Lane, Haseley,
Warwick,
CV35 7LS

Tel: 01926 485504

TTP CONSULTING CYFARTHFA RETAIL PARK TRAFFIC SURVEY

SURVEY REPORT FEBRUARY 2026

PROJECT NO.	17816
CHECKED	N. TOONE
DATE	18/02/2026
CONTACT	M. NORRIS
REVISION	



CONTENTS

Introduction

General Location Plan

Drawings 17816-01 to 03

Appendix A – Vehicle Categories

Appendix B – Classified Count Data

Appendix C – Queue Length Data

Appendix D – Parking Accumulation Data

INTRODUCTION

Nationwide Data Collection (NDC) was instructed by TTP Consulting to undertake classified turning counts, queue length observations and parking accumulation surveys at the Cyfarthfa Retail Park site in Merthyr Tydfil. A general location plan is given in Diagram 1.

Classified Turning Counts

Classified turning counts were undertaken at the following junction:

- Site 1 – Swansea Road / Retail Park Access
- Site 2 – Gellideg Roundabout - A470 / Swansea Road

The surveys were carried out on Saturday 7th and Tuesday 10th February 2026. Survey hours were 10:00-16:00 on Saturday and 07:00-10:00 and 16:00-19:00 on Tuesday. All information was collected in fifteen-minute intervals and has been tabulated in Excel with the peak and hourly totals calculated.

Details of the observed movements are given in Drawing 17816-01 & 02.

Vehicles were classified into the following categories:

Cars and taxis (**CAR**), Light Goods Vehicles (**LGV**), Other Goods Vehicles type 1 (**OGV1**), Other Goods Vehicles type 2 (**OGV2**), Public Service Vehicles (**PSV**), Motorcycles (**MCL**) and Pedal Cycles (**PCL**).

A detailed description of the vehicles included in each category is included in Appendix A.
The results of the classified counts are contained in Appendix B.

Queue Length Observations

Snapshot queue length observations were carried out on the approaches to the junctions at 5-minute intervals. Lane numbering is always outwards from the kerb in the direction of travel. All observations are in vehicle numbers rather than a linear measurement, and arm labelling is consistent with the classified counts carried out at the junction.

Queues were not recorded on Arms A and C of the Gellideg Roundabout as the A470 is trunk road and required additional roadspace booking which would have delayed the survey.

The results of the queue length surveys are included in Appendix C.

Parking Accumulation

A parking survey was also undertaken at the Cyfarthfa Retail Park site, with observations split between the two car parks:

- Site 3 – Main Car Park (B&Q / Oak Furnitureland)
- Site 4 – Side Car Park

The survey dates and hours are consistent with the classified counts. All information was collected in fifteen-minute intervals and has been tabulated in Excel, with the hourly and period totals calculated.

The number of parked vehicles was observed at the start of the day to enable a rolling parking accumulation to be calculated. The period of peak occupancy has also been identified in the results.

Vehicles were classified into the following categories:

Cars & Taxis (**CAR**), Light Goods Vehicles (**LGV**), Other Goods Vehicles 1 (**OGV1**), Other Goods Vehicles 2 (**OGV2**), Public Service Vehicles (**PSV**) and Motorcycles (**MCL**).

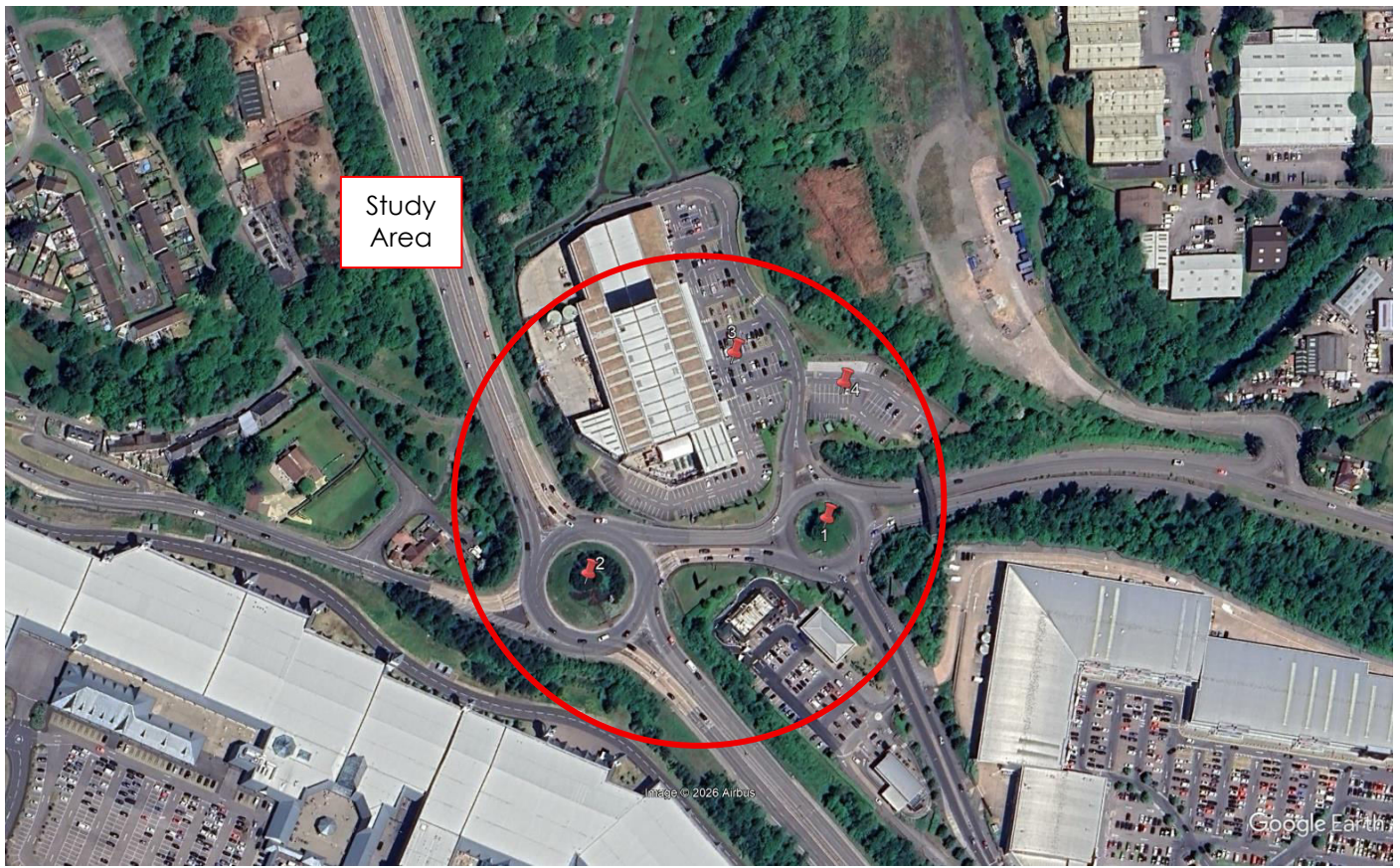
A detailed description of the vehicles included in each category is included in Appendix A. The results of the classified count are contained in Appendix D.

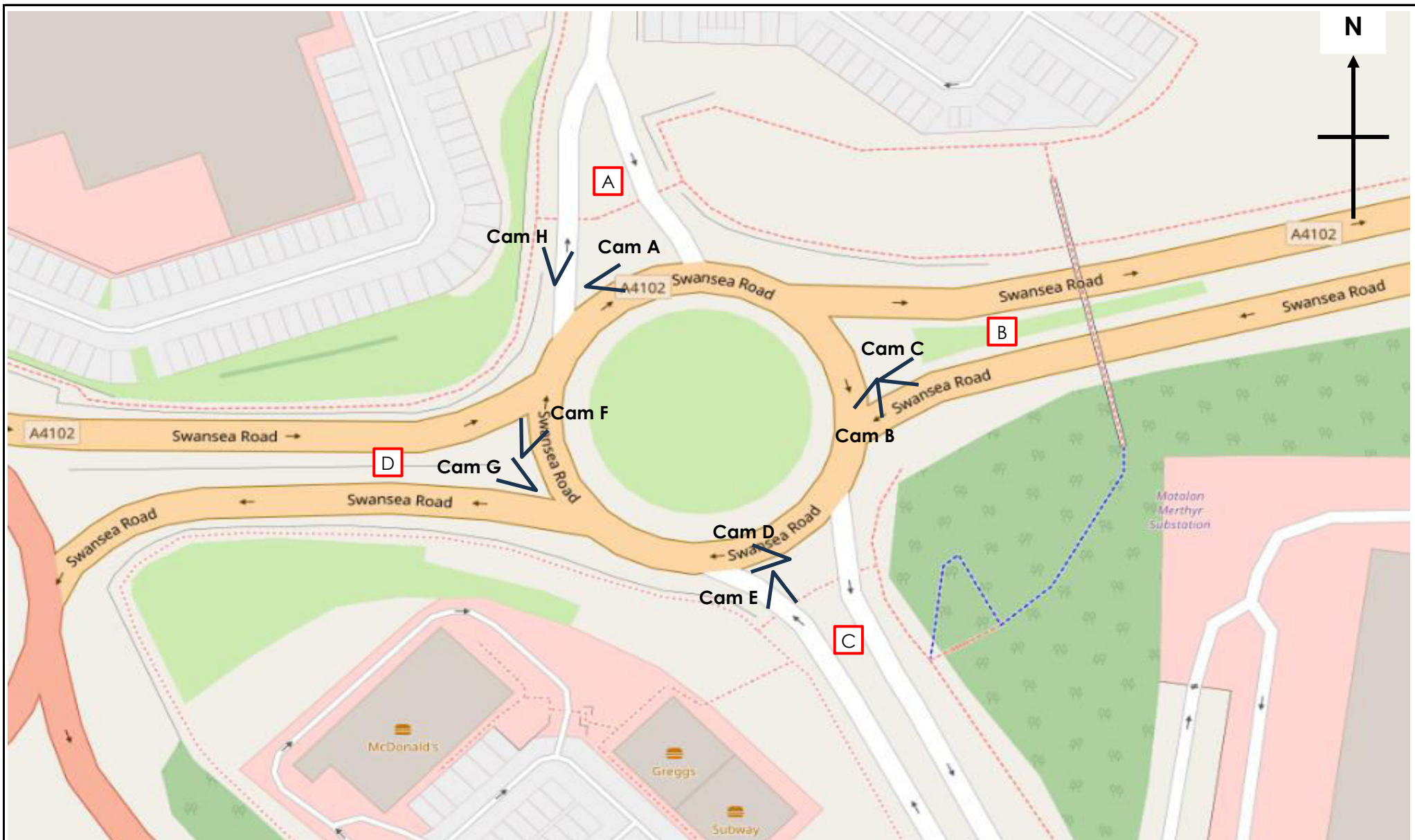
Site Notes

The weather was recorded as overcast, with rain throughout both survey days. There were no incidents or accidents likely to have had an effect on the results.

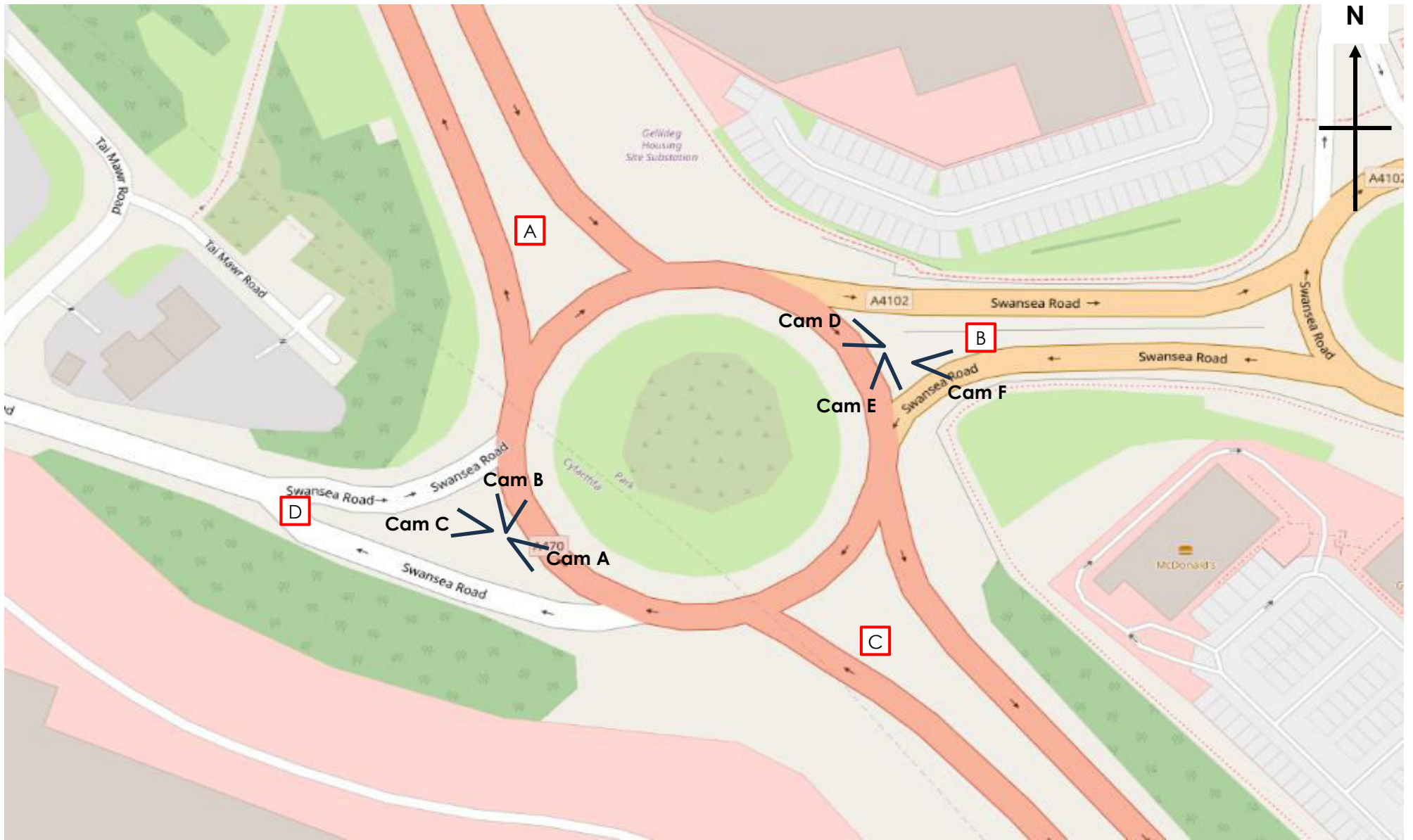
All data has been emailed to Andrew Murdoch at amurdoch@ttp-consulting.co.uk

Diagram 1 – General Location Plan

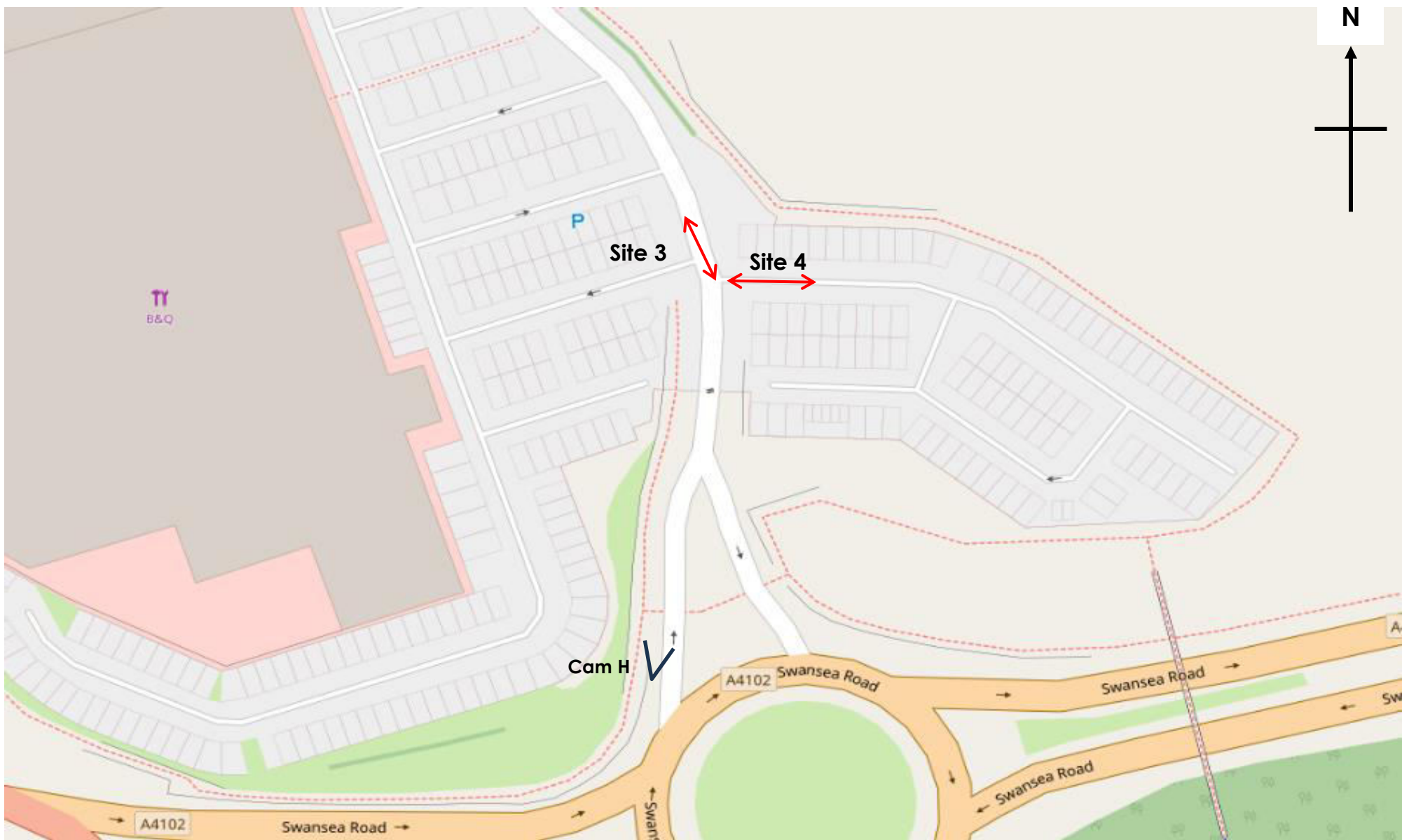




	Site / Location:	Site 1. Swansea Road / Retail Park Access	Project No:	17816	Drawing No:	17816-01	Drawn By:	MN
	Survey Date:	Saturday 7th & Tuesday 10th February 2026	Project Name:	Cyfarthfa Retail Park				
	Survey Times:	Saturday 10:00-16:00 & Tuesday 07:00-10:00 & 16:00-19:00	Drawing Title:	Site Layout and Observed Movements				



	Site / Location: Site 2, Gellideg Roundabout - A470 / Swansea Road	Project No: 17816	Drawing No: 17816-02	Drawn By: MN
	Survey Date: Saturday 7th & Tuesday 10th February 2026	Project Name: Cyfarthfa Retail Park		
	Survey Times: Saturday 10:00-16:00 & Tuesday 07:00-10:00 & 16:00-19:00	Drawing Title: Site Layout and Observed Movements		



	Site / Location:	Site 3 and 4, Retail Park Car Parks	Project No:	17816	Drawing No:	17816-03	Drawn By:	MN
	Survey Date:	Saturday 7th & Tuesday 10th February 2026	Project Name:	Cyfarthfa Retail Park				
	Survey Times:	Saturday 10:00-16:00 & Tuesday 07:00-10:00 & 16:00-19:00	Drawing Title:	Site Layout and Observed Movements				



APPENDIX A

Vehicle Categories

COBA VEHICLE CATEGORIES

CAR	 SALOON  ESTATE  PEOPLE CARRIER  CAR TOWING CARAVAN / TRAILER
LIGHT GOODS VEHICLE (LGV)	 VAN  <3.5 TONNES – single rear tyres  PICK-UP
OTHER GOODS VEHICLE (OGV1)	 > 3.5 TONNES – twin rear tyres  2-AXLES RIGID  2-AXLES RIGID  3 AXLES-RIGID
OTHER GOODS VEHICLE (OGV2)	 4 OR MORE AXLES RIGID  3-AXLES ARTIC  4 OR MORE AXLES ARTIC  OTHER GOODS VEHICLE WITH TRAILER
BUSES & COACHES (PSV)	 DOUBLE DECK BUS  SINGLE DECK BUS OR COACH

COBA VEHICLE CATEGORIES**Definition of Categories**

The various components of traffic have different characteristics in terms of operating costs, growth and occupancy. The most common categories into which the traffic is split in COBA; these are defined as:

Cars (CARS)

Including taxis, estate cars, 'people carriers' and other passenger vehicles (for example, minibuses and camper vans) with a gross vehicle weight of less than 3.5 tonnes, normally ones which can accommodate not more than 15 seats. Three-wheeled cars, motor invalid carriages, Land Rovers, Range Rovers and Jeeps and smaller ambulances are included. Cars towing caravans or trailers are counted as one vehicle unless included as a separate class.

Light Goods Vehicles (LGV)

Includes all goods vehicles up to 3.5 tonnes gross vehicle weight (goods vehicles over 3.5 tonnes have sideguards fitted between axles), including those towing a trailer or caravan. This includes all car delivery vans and those of the next larger carrying capacity such as transit vans. Included here are small pickup vans, three-wheeled goods vehicles, milk floats and pedestrian controlled motor vehicles. Most of this group is delivery vans of one type or another.

Other Goods Vehicles (OGV 1)

Includes all rigid vehicles over 3.5 tonnes gross vehicle weight with two or three axles Includes larger ambulances, tractors (without trailers), road rollers for tarmac pressing, box vans and similar large vans. A two or three axle motor tractive unit without a trailer is also included.

Other Goods Vehicles (OGV 2)

This category includes all rigid vehicles with four or more axles and all articulated vehicles. Also included in this class are OGV1 goods vehicles towing a caravan or trailer.

Buses and Coaches (PSV)

Includes all public service vehicles and works buses with a gross vehicle weight of 3.5 tonnes or more, usually vehicles with more than 16 seats.



APPENDIX B

Classified Count Data



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	A to D							TOT	A to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	12	1	0	0	0	0	0	13	6	1	0	0	0	0	0	7
10:15	15	2	0	0	0	0	0	17	5	1	0	0	0	0	0	6
10:30	14	3	0	0	0	0	0	17	12	1	0	0	0	0	0	13
10:45	23	9	0	0	0	0	0	32	10	2	0	0	0	0	0	12
11:00	22	4	0	0	0	0	0	26	10	1	0	0	0	0	0	11
11:15	29	2	1	0	0	0	0	32	6	0	0	0	0	0	0	6
11:30	26	1	1	0	0	0	0	28	13	1	0	0	0	0	0	14
11:45	23	1	0	0	0	0	0	24	8	0	0	0	0	0	0	8
12:00	22	3	0	0	0	0	0	25	8	1	0	0	0	0	0	9
12:15	25	2	0	0	0	0	0	27	7	1	0	0	0	0	0	8
12:30	26	5	0	0	0	0	0	31	9	2	0	0	0	0	0	11
12:45	16	2	0	0	0	0	0	18	11	0	0	0	0	0	0	11
13:00	12	1	0	0	0	0	0	13	9	0	0	0	0	0	0	9
13:15	17	4	0	0	0	0	0	21	9	2	0	0	0	0	0	11
13:30	16	2	0	0	0	0	0	18	12	1	0	0	0	0	0	13
13:45	10	2	0	0	0	0	0	12	10	0	0	0	0	0	0	10
14:00	10	1	0	0	0	0	0	11	7	1	0	0	0	0	0	8
14:15	23	1	0	0	0	0	0	24	11	0	0	0	0	0	0	11
14:30	27	1	0	0	0	0	0	28	6	1	0	0	0	0	0	7
14:45	27	2	0	0	0	0	0	29	12	0	0	0	0	0	0	12
15:00	24	2	0	0	0	0	0	26	7	1	0	0	0	0	0	8
15:15	35	0	0	0	0	0	0	35	10	0	0	0	0	0	0	10
15:30	22	2	0	0	0	0	0	24	13	0	0	0	0	0	0	13
15:45	25	2	0	0	0	0	0	27	8	1	0	0	0	0	0	9
P/TOT	501	55	2	0	0	0	0	558	219	18	0	0	0	0	0	237



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	A to B							TOT	A to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	6	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0
10:15	5	1	0	0	0	0	0	6	0	0	0	0	0	0	0	0
10:30	6	3	0	0	0	0	0	9	0	0	0	0	0	0	0	0
10:45	5	2	0	0	0	0	0	7	0	0	0	0	0	0	0	0
11:00	14	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0
11:15	9	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
11:30	9	6	0	0	0	0	0	15	0	0	0	0	0	0	0	0
11:45	10	1	0	0	0	0	0	11	0	0	0	0	0	0	0	0
12:00	21	2	0	0	0	0	0	23	0	0	0	0	0	0	0	0
12:15	9	3	0	0	0	0	0	12	0	0	0	0	0	0	0	0
12:30	17	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0
12:45	15	1	0	0	0	0	0	16	0	0	0	0	0	0	0	0
13:00	27	2	0	0	0	0	0	29	0	0	0	0	0	0	0	0
13:15	21	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0
13:30	23	3	0	0	0	0	0	26	0	0	0	0	0	0	0	0
13:45	28	2	0	0	0	0	0	30	0	0	0	0	0	0	0	0
14:00	31	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0
14:15	16	2	0	0	0	0	0	18	0	0	0	0	0	0	0	0
14:30	19	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0
14:45	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
15:00	11	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0
15:15	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
15:30	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
15:45	4	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0
P/TOT	325	30	0	0	0	0	0	355	0	0	0	0	0	0	0	0



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	B to A							TOT	B to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	6	0	0	0	0	0	0	6	53	5	1	0	0	0	0	59
10:15	5	3	0	0	0	0	0	8	27	4	0	0	0	0	0	31
10:30	3	3	0	0	0	0	0	6	50	4	2	0	0	1	0	57
10:45	2	1	0	0	0	0	0	3	49	6	1	1	0	0	0	57
11:00	6	0	0	0	0	0	0	6	55	3	0	0	0	1	0	59
11:15	8	0	0	0	0	0	0	8	46	7	2	0	0	0	1	56
11:30	9	1	0	0	0	0	0	10	54	5	0	0	0	0	0	59
11:45	5	0	0	0	0	0	0	5	50	8	0	0	0	1	0	59
12:00	6	1	0	0	0	0	0	7	72	10	1	0	0	0	0	83
12:15	8	1	0	0	0	0	0	9	71	6	1	1	0	0	0	79
12:30	11	3	0	0	0	0	0	14	71	5	0	0	0	0	0	76
12:45	4	0	0	0	0	0	0	4	64	2	1	0	0	0	0	67
13:00	6	0	0	0	0	0	0	6	63	6	0	0	0	0	0	69
13:15	5	1	0	0	0	0	0	6	64	6	0	0	0	0	0	70
13:30	8	1	0	0	0	0	0	9	63	1	1	0	0	0	0	65
13:45	3	0	0	0	0	0	0	3	58	5	1	0	0	0	0	64
14:00	11	0	0	0	0	0	0	11	49	6	0	0	0	0	0	55
14:15	3	1	0	0	0	0	0	4	47	4	0	0	0	0	0	51
14:30	10	0	0	0	0	0	0	10	83	5	0	0	0	0	0	88
14:45	10	0	0	0	0	0	0	10	67	1	1	0	0	1	0	70
15:00	7	0	0	0	0	0	0	7	55	3	0	0	0	0	0	58
15:15	5	0	0	0	0	0	0	5	46	4	0	0	0	0	0	50
15:30	5	0	0	0	0	0	0	5	58	7	0	0	0	0	0	65
15:45	7	0	0	0	0	0	0	7	45	4	0	0	0	0	0	49
P/TOT	153	16	0	0	0	0	0	169	1360	117	12	2	0	4	1	1496



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	B to C							TOT	B to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	54	3	0	0	0	0	0	57	0	0	0	0	0	0	0	0
10:15	43	4	0	0	3	0	0	50	1	0	0	0	0	0	0	1
10:30	43	3	0	0	0	0	0	46	1	0	0	0	0	0	0	1
10:45	39	1	0	0	1	1	0	42	1	0	0	0	0	0	0	1
11:00	41	5	0	0	0	1	0	47	0	0	0	0	0	0	0	0
11:15	39	3	0	0	3	0	0	45	0	1	0	0	0	0	0	1
11:30	30	3	0	0	0	0	0	33	0	0	0	0	0	0	0	0
11:45	35	2	0	0	1	0	0	38	0	0	0	0	0	0	0	0
12:00	34	3	0	0	0	0	0	37	0	0	0	0	0	0	0	0
12:15	39	1	0	0	3	0	0	43	0	0	0	0	0	0	0	0
12:30	47	0	1	0	0	0	0	48	2	0	0	0	0	0	0	2
12:45	48	2	0	0	1	0	0	51	0	0	0	0	0	0	0	0
13:00	40	1	0	0	0	0	0	41	0	0	0	0	0	0	0	0
13:15	40	0	0	0	3	0	0	43	1	0	0	0	0	0	0	1
13:30	45	3	0	0	0	0	0	48	1	0	0	0	0	0	0	1
13:45	46	2	0	0	1	0	0	49	0	0	0	0	0	0	0	0
14:00	38	1	0	0	0	0	0	39	1	0	0	0	0	0	0	1
14:15	26	2	0	0	3	0	0	31	0	0	0	0	0	0	0	0
14:30	33	3	0	0	0	0	0	36	0	0	0	0	0	0	0	0
14:45	42	3	0	0	1	0	0	46	0	0	0	0	0	0	0	0
15:00	44	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0
15:15	48	0	0	0	3	0	0	51	1	0	0	0	0	0	0	1
15:30	46	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0
15:45	49	4	0	0	1	0	0	54	0	0	0	0	0	0	0	0
P/TOT	989	49	1	0	24	2	0	1065	9	1	0	0	0	0	0	10



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	C to B							TOT	C to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	19	0	0	0	1	0	0	20	8	6	0	0	0	0	0	14
10:15	23	1	0	0	1	0	0	25	9	1	0	0	0	0	0	10
10:30	35	2	0	0	0	0	0	37	10	1	0	0	0	0	0	11
10:45	34	3	1	0	2	0	0	40	17	1	0	0	0	0	0	18
11:00	48	4	1	0	1	0	0	54	11	1	1	0	0	0	0	13
11:15	23	0	0	0	1	0	0	24	15	3	0	0	0	0	0	18
11:30	42	3	0	0	0	1	0	46	17	0	0	0	0	0	0	17
11:45	35	3	0	0	2	0	0	40	11	0	0	0	0	0	0	11
12:00	29	6	0	0	1	0	0	36	7	2	0	0	0	0	0	9
12:15	24	0	0	0	1	0	0	25	7	0	0	0	0	0	0	7
12:30	27	2	0	0	0	0	0	29	10	1	0	0	0	0	0	11
12:45	31	3	0	0	2	0	0	36	7	0	0	0	0	0	0	7
13:00	54	0	1	0	1	0	0	56	11	1	0	0	0	0	0	12
13:15	44	1	1	0	1	0	0	47	15	1	0	0	0	0	0	16
13:30	30	2	0	0	0	0	0	32	12	0	0	0	0	0	0	12
13:45	36	0	1	0	2	0	0	39	11	0	0	0	0	0	0	11
14:00	45	0	0	0	1	0	0	46	8	1	0	0	0	0	0	9
14:15	21	4	0	0	1	0	0	26	13	0	0	0	0	0	0	13
14:30	40	2	0	0	0	0	0	42	12	2	0	0	0	0	0	14
14:45	41	1	0	0	2	0	0	44	14	0	0	0	0	0	0	14
15:00	44	0	0	0	1	0	0	45	16	0	0	0	0	0	0	16
15:15	28	0	1	0	1	0	0	30	10	0	0	0	0	0	0	10
15:30	48	0	0	0	1	0	0	49	7	0	0	0	0	0	0	7
15:45	48	1	0	0	1	0	0	50	10	1	0	0	0	0	0	11
P/TOT	849	38	6	0	24	1	0	918	268	22	1	0	0	0	0	291



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	C to D							TOT	C to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	93	7	0	0	0	0	0	100	1	0	0	0	0	0	0	1
10:15	108	8	1	0	1	0	0	118	10	1	0	0	0	0	0	11
10:30	97	6	0	0	3	0	0	106	6	0	0	0	0	0	0	6
10:45	113	14	0	1	1	1	0	130	2	1	0	0	0	0	0	3
11:00	139	8	1	0	0	1	0	149	7	1	0	0	0	0	0	8
11:15	144	8	0	0	2	0	0	154	3	1	0	0	0	0	0	4
11:30	145	7	0	0	1	0	0	153	1	1	0	0	0	1	0	3
11:45	145	9	0	0	0	0	0	154	3	0	0	0	0	0	0	3
12:00	160	9	1	0	0	0	0	170	2	1	0	0	0	0	0	3
12:15	166	7	1	0	2	0	0	176	2	0	0	0	0	0	0	2
12:30	158	8	0	0	1	0	0	167	5	0	0	0	0	0	0	5
12:45	164	11	0	0	1	0	0	176	1	0	0	0	0	0	0	1
13:00	193	8	1	0	0	0	0	202	4	0	0	0	0	0	0	4
13:15	185	9	0	0	2	0	0	196	4	0	0	0	0	0	0	4
13:30	185	9	0	0	1	0	0	195	1	0	0	0	0	0	0	1
13:45	174	5	0	0	1	0	0	180	1	0	0	0	0	0	0	1
14:00	183	9	0	0	0	0	0	192	3	0	0	0	0	0	0	3
14:15	164	4	0	0	2	0	0	170	4	2	0	0	0	0	0	6
14:30	142	6	0	0	1	0	0	149	2	0	0	0	0	0	0	2
14:45	161	6	0	0	1	0	0	168	2	0	0	0	0	0	0	2
15:00	186	9	0	0	0	0	0	195	1	0	0	0	0	0	0	1
15:15	199	10	0	0	1	0	0	210	6	0	0	0	0	0	0	6
15:30	200	7	0	0	2	0	0	209	2	0	0	0	0	0	0	2
15:45	160	10	0	0	2	1	0	173	0	0	0	0	0	0	0	0
P/TOT	3764	194	5	1	25	3	0	3992	73	8	0	0	0	1	0	82



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	D to C							TOT	D to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	113	10	0	0	2	0	0	125	34	3	0	0	0	0	0	37
10:15	139	8	0	0	1	0	0	148	48	5	0	0	0	0	0	53
10:30	136	11	0	0	1	1	0	149	43	8	0	0	0	1	0	52
10:45	170	7	1	0	0	0	0	178	66	4	0	1	0	1	0	72
11:00	132	6	2	0	2	0	0	142	39	4	0	0	0	0	0	43
11:15	160	6	0	0	1	0	0	167	54	8	1	1	0	0	0	64
11:30	150	6	0	0	1	0	0	157	61	5	1	0	0	0	0	67
11:45	144	9	0	0	0	0	0	153	75	3	0	0	1	0	0	79
12:00	141	7	1	0	1	0	0	150	74	6	0	0	0	0	0	80
12:15	135	3	0	0	0	0	0	138	70	6	0	0	0	0	0	76
12:30	149	6	0	0	2	0	0	157	65	9	0	0	0	0	0	74
12:45	113	5	0	0	0	0	0	118	93	3	1	0	0	0	0	97
13:00	135	6	0	0	1	0	0	142	95	7	1	0	0	0	0	103
13:15	121	2	0	0	1	0	0	124	90	5	1	0	0	0	0	96
13:30	111	0	0	0	1	0	0	112	90	3	0	0	0	0	0	93
13:45	61	2	0	0	1	0	0	64	94	9	0	0	0	0	0	103
14:00	109	3	0	0	2	1	0	115	90	5	0	0	0	0	0	95
14:15	129	8	0	0	0	0	0	137	72	1	0	0	0	0	0	73
14:30	120	1	0	0	2	0	0	123	62	4	1	0	0	1	0	68
14:45	122	1	0	0	0	0	0	123	52	3	0	0	0	0	0	55
15:00	156	5	1	0	1	0	0	163	51	4	0	0	0	0	0	55
15:15	105	7	0	0	1	0	0	113	52	4	0	0	0	0	0	56
15:30	104	6	0	0	2	0	0	112	46	3	0	0	0	3	0	52
15:45	137	3	0	0	0	0	0	140	40	3	0	0	0	0	0	43
P/TOT	3092	128	5	0	23	2	0	3250	1556	115	6	2	1	6	0	1686



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	D to A							TOT	D to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	22	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
10:15	19	4	0	0	0	0	0	23	2	0	0	0	0	0	0	2
10:30	24	9	0	0	0	0	0	33	2	0	0	0	0	0	0	2
10:45	22	1	0	0	0	0	0	23	1	0	0	0	0	0	0	1
11:00	33	6	0	0	0	0	0	39	0	0	0	0	0	0	0	0
11:15	30	1	1	0	0	0	0	32	0	0	0	0	0	0	0	0
11:30	23	2	0	0	0	0	0	25	0	0	0	0	0	0	0	0
11:45	21	4	0	0	0	0	0	25	0	0	0	0	0	0	0	0
12:00	28	2	0	0	0	0	0	30	4	1	0	0	0	0	0	5
12:15	34	5	0	0	0	0	0	39	0	0	0	0	0	0	0	0
12:30	30	1	0	0	0	0	0	31	6	0	0	0	0	0	0	6
12:45	35	5	0	0	0	0	0	40	5	0	0	0	0	0	0	5
13:00	32	1	0	0	0	0	0	33	0	0	0	0	0	0	0	0
13:15	38	8	0	0	0	0	0	46	4	1	0	0	0	0	0	5
13:30	39	2	0	0	0	0	0	41	2	0	0	0	0	0	0	2
13:45	30	3	0	0	0	0	0	33	0	0	0	0	0	0	0	0
14:00	30	1	0	0	0	0	0	31	1	0	0	0	0	0	0	1
14:15	28	0	0	0	0	0	0	28	4	1	0	0	0	0	0	5
14:30	24	0	0	0	0	0	0	24	1	0	0	0	0	0	0	1
14:45	21	4	0	0	0	0	0	25	0	0	0	0	0	0	0	0
15:00	24	0	0	0	0	0	0	24	2	0	0	0	0	0	0	2
15:15	24	2	0	0	0	0	0	26	2	0	0	0	0	0	0	2
15:30	19	1	0	0	0	0	0	20	0	0	0	0	0	0	0	0
15:45	29	2	0	0	0	0	0	31	0	0	0	0	0	0	0	0
P/TOT	659	64	1	0	0	0	0	724	36	3	0	0	0	0	0	39



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	TO ARM A							TOT	FROM ARM A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	36	6	0	0	0	0	0	42	24	3	0	0	0	0	0	27
10:15	33	8	0	0	0	0	0	41	25	4	0	0	0	0	0	29
10:30	37	13	0	0	0	0	0	50	32	7	0	0	0	0	0	39
10:45	41	3	0	0	0	0	0	44	38	13	0	0	0	0	0	51
11:00	50	7	1	0	0	0	0	58	46	5	0	0	0	0	0	51
11:15	53	4	1	0	0	0	0	58	44	2	1	0	0	0	0	47
11:30	49	3	0	0	0	0	0	52	48	8	1	0	0	0	0	57
11:45	37	4	0	0	0	0	0	41	41	2	0	0	0	0	0	43
12:00	41	5	0	0	0	0	0	46	51	6	0	0	0	0	0	57
12:15	49	6	0	0	0	0	0	55	41	6	0	0	0	0	0	47
12:30	51	5	0	0	0	0	0	56	52	7	0	0	0	0	0	59
12:45	46	5	0	0	0	0	0	51	42	3	0	0	0	0	0	45
13:00	49	2	0	0	0	0	0	51	48	3	0	0	0	0	0	51
13:15	58	10	0	0	0	0	0	68	47	6	0	0	0	0	0	53
13:30	59	3	0	0	0	0	0	62	51	6	0	0	0	0	0	57
13:45	44	3	0	0	0	0	0	47	48	4	0	0	0	0	0	52
14:00	49	2	0	0	0	0	0	51	48	2	0	0	0	0	0	50
14:15	44	1	0	0	0	0	0	45	50	3	0	0	0	0	0	53
14:30	46	2	0	0	0	0	0	48	52	2	0	0	0	0	0	54
14:45	45	4	0	0	0	0	0	49	47	2	0	0	0	0	0	49
15:00	47	0	0	0	0	0	0	47	42	3	0	0	0	0	0	45
15:15	39	2	0	0	0	0	0	41	53	0	0	0	0	0	0	53
15:30	31	1	0	0	0	0	0	32	38	2	0	0	0	0	0	40
15:45	46	3	0	0	0	0	0	49	37	4	0	0	0	0	0	41
P/TOT	1080	102	2	0	0	0	0	1184	1045	103	2	0	0	0	0	1150



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	TO ARM B							TOT	FROM ARM B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	59	4	0	0	1	0	0	64	113	8	1	0	0	0	0	122
10:15	77	7	0	0	1	0	0	85	76	11	0	0	3	0	0	90
10:30	85	13	0	0	0	1	0	99	97	10	2	0	0	1	0	110
10:45	106	9	1	1	2	1	0	120	91	8	1	1	1	1	0	103
11:00	101	8	1	0	1	0	0	111	102	8	0	0	0	2	0	112
11:15	86	9	1	1	1	0	0	98	93	11	2	0	3	0	1	110
11:30	112	14	1	0	0	1	0	128	93	9	0	0	0	0	0	102
11:45	120	7	0	0	3	0	0	130	90	10	0	0	1	1	0	102
12:00	124	14	0	0	1	0	0	139	112	14	1	0	0	0	0	127
12:15	103	9	0	0	1	0	0	113	118	8	1	1	3	0	0	131
12:30	111	11	0	0	0	0	0	122	131	8	1	0	0	0	0	140
12:45	139	7	1	0	2	0	0	149	116	4	1	0	1	0	0	122
13:00	176	9	2	0	1	0	0	188	109	7	0	0	0	0	0	116
13:15	156	6	2	0	1	0	0	165	110	7	0	0	3	0	0	120
13:30	144	8	0	0	0	0	0	152	117	5	1	0	0	0	0	123
13:45	158	11	1	0	2	0	0	172	107	7	1	0	1	0	0	116
14:00	167	5	0	0	1	0	0	173	99	7	0	0	0	0	0	106
14:15	109	7	0	0	1	0	0	117	76	7	0	0	3	0	0	86
14:30	121	6	1	0	0	1	0	129	126	8	0	0	0	0	0	134
14:45	101	4	0	0	2	0	0	107	119	4	1	0	1	1	0	126
15:00	106	4	0	0	1	0	0	111	106	3	0	0	0	0	0	109
15:15	89	4	1	0	1	0	0	95	100	4	0	0	3	0	0	107
15:30	97	3	0	0	1	3	0	104	109	7	0	0	0	0	0	116
15:45	92	5	0	0	1	0	0	98	101	8	0	0	1	0	0	110
P/TOT	2739	184	12	2	25	7	0	2969	2511	183	13	2	24	6	1	2740



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	TO ARM C							TOT	FROM ARM C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	174	14	0	0	2	0	0	190	121	13	0	0	1	0	0	135
10:15	197	14	0	0	4	0	0	215	150	11	1	0	2	0	0	164
10:30	197	15	0	0	1	1	0	214	148	9	0	0	3	0	0	160
10:45	221	11	1	0	1	1	0	235	166	19	1	1	3	1	0	191
11:00	190	13	2	0	2	1	0	208	205	14	3	0	1	1	0	224
11:15	208	10	0	0	4	0	0	222	185	12	0	0	3	0	0	200
11:30	194	11	0	0	1	1	0	207	205	11	0	0	1	2	0	219
11:45	190	11	0	0	1	0	0	202	194	12	0	0	2	0	0	208
12:00	185	12	1	0	1	0	0	199	198	18	1	0	1	0	0	218
12:15	183	5	0	0	3	0	0	191	199	7	1	0	3	0	0	210
12:30	210	8	1	0	2	0	0	221	200	11	0	0	1	0	0	212
12:45	173	7	0	0	1	0	0	181	203	14	0	0	3	0	0	220
13:00	188	7	0	0	1	0	0	196	262	9	2	0	1	0	0	274
13:15	174	4	0	0	4	0	0	182	248	11	1	0	3	0	0	263
13:30	169	4	0	0	1	0	0	174	228	11	0	0	1	0	0	240
13:45	118	4	0	0	2	0	0	124	222	5	1	0	3	0	0	231
14:00	157	5	0	0	2	1	0	165	239	10	0	0	1	0	0	250
14:15	170	12	0	0	3	0	0	185	202	10	0	0	3	0	0	215
14:30	161	5	0	0	2	0	0	168	196	10	0	0	1	0	0	207
14:45	178	4	0	0	1	0	0	183	218	7	0	0	3	0	0	228
15:00	208	6	1	0	1	0	0	216	247	9	0	0	1	0	0	257
15:15	169	7	0	0	4	0	0	180	243	10	1	0	2	0	0	256
15:30	165	6	0	0	2	0	0	173	257	7	0	0	3	0	0	267
15:45	194	8	0	0	1	0	0	203	218	12	0	0	3	1	0	234
P/TOT	4373	203	6	0	47	5	0	4634	4954	262	12	1	49	5	0	5283



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	TO ARM D							TOT	FROM ARM D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	158	13	1	0	0	0	0	172	169	13	0	0	2	0	0	184
10:15	152	14	1	0	1	0	0	168	208	17	0	0	1	0	0	226
10:30	163	13	2	0	3	1	0	182	205	28	0	0	1	2	0	236
10:45	186	29	1	2	1	1	0	220	259	12	1	1	0	1	0	274
11:00	216	15	1	0	0	2	0	234	204	16	2	0	2	0	0	224
11:15	219	17	3	0	2	0	1	242	244	15	2	1	1	0	0	263
11:30	225	13	1	0	1	0	0	240	234	13	1	0	1	0	0	249
11:45	218	18	0	0	0	1	0	237	240	16	0	0	1	0	0	257
12:00	258	23	2	0	0	0	0	283	247	16	1	0	1	0	0	265
12:15	262	15	2	1	2	0	0	282	239	14	0	0	0	0	0	253
12:30	261	18	0	0	1	0	0	280	250	16	0	0	2	0	0	268
12:45	249	15	1	0	1	0	0	266	246	13	1	0	0	0	0	260
13:00	268	15	1	0	0	0	0	284	262	14	1	0	1	0	0	278
13:15	270	20	0	0	2	0	0	292	253	16	1	0	1	0	0	271
13:30	266	12	1	0	1	0	0	280	242	5	0	0	1	0	0	248
13:45	242	12	1	0	1	0	0	256	185	14	0	0	1	0	0	200
14:00	243	16	0	0	0	0	0	259	230	9	0	0	2	1	0	242
14:15	238	10	0	0	2	0	0	250	233	10	0	0	0	0	0	243
14:30	253	12	0	0	1	0	0	266	207	5	1	0	2	1	0	216
14:45	255	9	1	0	1	1	0	267	195	8	0	0	0	0	0	203
15:00	267	14	0	0	0	0	0	281	233	9	1	0	1	0	0	244
15:15	282	14	0	0	1	0	0	297	183	13	0	0	1	0	0	197
15:30	280	16	0	0	2	0	0	298	169	10	0	0	2	3	0	184
15:45	230	16	0	0	2	1	0	249	206	8	0	0	0	0	0	214
P/TOT	5661	369	19	3	25	7	1	6085	5343	310	12	2	24	8	0	5699



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

TIME	JUNCTION TOTAL							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	427	37	1	0	3	0	0	468
10:15	459	43	1	0	6	0	0	509
10:30	482	54	2	0	4	3	0	545
10:45	554	52	3	3	4	3	0	619
11:00	557	43	5	0	3	3	0	611
11:15	566	40	5	1	7	0	1	620
11:30	580	41	2	0	2	2	0	627
11:45	565	40	0	0	4	1	0	610
12:00	608	54	3	0	2	0	0	667
12:15	597	35	2	1	6	0	0	641
12:30	633	42	1	0	3	0	0	679
12:45	607	34	2	0	4	0	0	647
13:00	681	33	3	0	2	0	0	719
13:15	658	40	2	0	7	0	0	707
13:30	638	27	1	0	2	0	0	668
13:45	562	30	2	0	5	0	0	599
14:00	616	28	0	0	3	1	0	648
14:15	561	30	0	0	6	0	0	597
14:30	581	25	1	0	3	1	0	611
14:45	579	21	1	0	4	1	0	606
15:00	628	24	1	0	2	0	0	655
15:15	579	27	1	0	6	0	0	613
15:30	573	26	0	0	5	3	0	607
15:45	562	32	0	0	4	1	0	599
P/TOT	13853	858	39	5	97	19	1	14872

PEAK HOUR CALCULATION	
10:00 to 11:00	2141
10:15 to 11:15	2284
10:30 to 11:30	2395
10:45 to 11:45	2477
11:00 to 12:00	2468
11:15 to 12:15	2524
11:30 to 12:30	2545
11:45 to 12:45	2597
12:00 to 13:00	2634
12:15 to 13:15	2686
12:30 to 13:30	2752
12:45 to 13:45	2741
13:00 to 14:00	2693
13:15 to 14:15	2622
13:30 to 14:30	2512
13:45 to 14:45	2455
14:00 to 15:00	2462
14:15 to 15:15	2469
14:30 to 15:30	2485
14:45 to 15:45	2481



SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	A to D							TOT	A to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	2	1	0	0	0	0	0	3	0	1	0	0	0	0	0	1
07:15	2	1	0	0	0	0	0	3	0	2	0	0	0	0	1	3
07:30	4	0	0	0	0	0	0	4	1	0	0	0	0	0	0	1
07:45	2	2	0	0	0	0	0	4	0	1	0	0	0	0	0	1
08:00	2	1	0	0	0	0	0	3	1	2	0	0	0	0	0	3
08:15	4	1	0	0	0	0	0	5	2	1	0	0	0	0	0	3
08:30	5	3	0	0	0	0	0	8	0	1	0	0	0	0	0	1
08:45	6	4	0	0	0	0	0	10	3	3	0	0	0	0	0	6
09:00	8	4	0	0	0	0	0	12	3	1	0	0	0	0	0	4
09:15	9	1	0	0	0	0	0	10	3	1	0	0	0	0	0	4
09:30	4	2	1	0	0	0	0	7	5	2	0	0	0	0	0	7
09:45	13	1	0	0	0	0	0	14	2	2	0	0	0	0	0	4
P/TOT	61	21	1	0	0	0	0	83	20	17	0	0	0	0	1	38

TIME	A to D							TOT	A to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	21	5	0	0	0	0	0	26	5	1	0	0	0	0	0	6
16:15	18	2	0	0	0	0	0	20	6	1	0	0	0	0	0	7
16:30	16	2	1	0	0	0	0	19	9	0	0	0	0	0	0	9
16:45	17	0	0	0	0	0	0	17	3	2	0	0	0	0	0	5
17:00	8	5	0	0	1	0	0	14	6	1	0	0	0	0	0	7
17:15	13	2	0	0	0	0	0	15	4	0	0	0	0	0	0	4
17:30	9	0	0	0	0	0	0	9	4	2	0	0	0	0	0	6
17:45	11	1	0	0	0	0	0	12	7	1	0	0	0	0	0	8
18:00	16	1	0	0	0	0	0	17	2	0	0	0	0	0	0	2
18:15	10	1	0	0	0	0	0	11	4	0	0	0	0	0	0	4
18:30	11	2	0	0	0	0	0	13	2	1	0	0	0	0	0	3
18:45	6	1	0	0	0	0	0	7	6	4	1	0	0	0	0	11
P/TOT	156	22	1	0	1	0	0	180	58	13	1	0	0	0	0	72



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	A to B							TOT	A to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
07:15	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
07:30	5	2	0	0	1	0	0	8	0	0	0	0	0	0	0	0
07:45	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
08:00	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
08:15	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
08:30	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
08:45	4	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0
09:00	3	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0
09:15	4	4	0	0	0	0	0	8	0	0	0	0	0	0	0	0
09:30	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
09:45	9	2	0	0	0	0	0	11	0	0	0	0	0	0	0	0
P/TOT	36	13	0	0	1	0	0	50	0	0	0	0	0	0	0	0

TIME	A to B							TOT	A to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	5	3	0	0	0	0	0	8	0	0	0	0	0	0	0	0
16:15	7	2	0	0	0	0	0	9	0	0	0	0	0	0	0	0
16:30	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
16:45	4	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0
17:00	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
17:15	7	2	0	0	0	0	0	9	0	0	0	0	0	0	0	0
17:30	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
17:45	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
18:00	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
18:15	3	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0
18:30	11	1	0	0	0	0	0	12	0	0	0	0	0	0	0	0
18:45	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
P/TOT	65	10	0	0	0	0	0	75	0	0	0	0	0	0	0	0



SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	B to A							TOT	B to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	0	1	0	0	0	0	0	1	34	14	1	0	0	0	0	49
07:15	1	0	0	0	0	0	0	1	31	9	2	0	0	0	0	42
07:30	3	2	0	0	0	0	0	5	42	9	1	0	0	0	0	52
07:45	0	1	0	0	0	0	0	1	45	7	0	1	2	1	0	56
08:00	0	0	0	0	0	0	0	0	50	9	0	0	0	0	0	59
08:15	1	1	0	0	0	0	0	2	56	10	5	0	1	0	0	72
08:30	2	2	0	0	0	0	0	4	56	9	4	1	0	0	0	70
08:45	4	0	0	0	0	0	0	4	61	15	0	0	0	0	0	76
09:00	5	3	0	0	0	0	0	8	69	14	1	0	0	0	0	84
09:15	9	1	0	0	0	0	0	10	40	15	4	0	0	3	0	62
09:30	3	2	0	0	0	0	0	5	42	15	2	0	0	0	0	59
09:45	3	0	0	0	0	0	0	3	49	9	3	1	0	0	0	62
P/TOT	31	13	0	0	0	0	0	44	575	135	23	3	3	4	0	743

TIME	B to A							TOT	B to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	3	1	0	0	0	0	0	4	69	11	1	0	1	0	0	82
16:15	6	0	1	0	0	0	0	7	78	17	0	0	0	0	0	95
16:30	6	1	0	0	0	0	0	7	79	6	1	1	1	0	0	88
16:45	10	1	0	0	0	0	0	11	80	9	1	0	0	0	0	90
17:00	7	2	0	0	0	0	1	10	97	9	1	0	0	0	0	107
17:15	4	0	0	0	0	0	0	4	89	6	1	1	0	0	0	97
17:30	0	0	0	0	0	0	0	0	60	6	0	0	0	0	0	66
17:45	5	0	0	0	0	0	0	5	67	9	0	1	0	0	0	77
18:00	3	0	0	0	0	0	0	3	54	3	0	0	0	0	0	57
18:15	4	0	0	0	0	0	0	4	52	7	0	0	0	0	0	59
18:30	4	2	0	0	0	0	0	6	63	2	0	0	0	0	0	65
18:45	0	0	0	0	0	0	0	0	37	5	0	0	0	0	0	42
P/TOT	52	7	1	0	0	0	1	61	825	90	5	3	2	0	0	925



SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	B to C							TOT	B to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	3	2	0	0	0	0	0	5	0	0	0	0	0	0	0	0
07:15	8	2	1	0	2	0	0	13	0	0	0	0	0	0	0	0
07:30	11	3	0	0	0	0	0	14	0	0	0	0	0	0	0	0
07:45	25	4	0	0	2	0	0	31	0	0	0	0	0	0	0	0
08:00	22	3	0	0	0	0	0	25	0	0	0	0	0	0	0	0
08:15	48	4	0	0	2	0	0	54	1	0	0	0	0	0	0	1
08:30	47	3	0	0	2	0	0	52	1	0	0	0	0	0	0	1
08:45	51	3	2	0	1	0	0	57	2	0	0	0	0	0	0	2
09:00	59	4	0	0	0	0	0	63	0	0	0	0	0	0	0	0
09:15	30	4	0	0	1	0	0	35	0	0	0	0	0	0	0	0
09:30	31	1	0	0	2	0	0	34	1	0	0	0	0	0	0	1
09:45	49	2	0	0	1	0	0	52	0	0	0	0	0	0	0	0
P/TOT	384	35	3	0	13	0	0	435	5	0	0	0	0	0	0	5

TIME	B to C							TOT	B to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	62	3	1	0	0	0	0	66	1	0	0	0	0	0	0	1
16:15	63	3	0	0	2	0	0	68	0	0	0	0	0	0	0	0
16:30	46	5	0	0	0	0	0	51	0	0	0	0	0	0	0	0
16:45	74	5	0	0	1	0	0	80	1	0	0	0	0	0	0	1
17:00	50	5	1	0	1	0	0	57	0	0	0	0	0	0	0	0
17:15	69	4	0	0	2	0	0	75	0	0	0	0	0	0	0	0
17:30	49	0	0	0	1	0	0	50	1	0	0	0	0	0	0	1
17:45	44	3	0	0	0	0	0	47	0	0	0	0	0	0	0	0
18:00	41	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0
18:15	36	2	0	0	2	0	0	40	0	0	0	0	0	0	0	0
18:30	38	1	1	0	0	0	0	40	0	0	0	0	0	0	0	0
18:45	31	1	0	0	0	0	0	32	0	0	0	0	0	0	0	0
P/TOT	603	32	3	0	9	0	0	647	3	0	0	0	0	0	0	3



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	C to B							TOT	C to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	4	2	0	0	0	0	0	6	1	1	0	0	0	0	0	2
07:15	8	1	0	0	1	0	0	10	1	3	0	0	0	0	0	4
07:30	8	2	0	0	0	0	0	10	2	0	0	0	0	0	0	2
07:45	10	1	0	0	2	0	0	13	2	1	0	0	0	0	0	3
08:00	16	1	2	1	1	0	0	21	2	1	0	0	0	0	0	3
08:15	26	1	0	0	1	0	0	28	0	1	0	0	0	0	0	1
08:30	17	6	0	0	0	0	0	23	1	1	0	0	0	0	0	2
08:45	20	2	2	0	2	0	0	26	5	0	0	0	0	0	0	5
09:00	20	3	0	0	1	0	0	24	4	0	0	0	0	0	0	4
09:15	25	2	1	0	1	0	0	29	4	0	0	0	0	0	0	4
09:30	25	0	0	0	0	0	0	25	4	0	0	0	0	0	0	4
09:45	29	2	0	0	1	0	0	32	8	1	0	0	0	0	0	9
P/TOT	208	23	5	1	10	0	0	247	34	9	0	0	0	0	0	43

TIME	C to B							TOT	C to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	33	4	0	0	1	0	0	38	5	1	0	0	0	0	0	6
16:15	37	1	0	0	1	0	0	39	5	1	0	0	0	0	0	6
16:30	36	2	0	0	0	0	0	38	6	1	0	0	0	0	0	7
16:45	36	0	0	0	1	0	0	37	2	0	0	0	0	0	0	2
17:00	60	5	0	0	1	0	0	66	2	0	0	0	0	0	0	2
17:15	47	2	0	0	1	0	0	50	2	2	0	0	0	0	0	4
17:30	39	3	0	0	0	0	0	42	10	1	0	0	0	0	0	11
17:45	37	4	0	0	2	0	0	43	6	0	0	0	0	0	0	6
18:00	42	2	0	0	0	0	0	44	2	0	0	0	0	0	0	2
18:15	41	2	0	0	1	0	0	44	6	1	0	0	0	0	0	7
18:30	43	2	0	0	1	0	0	46	4	1	0	0	0	0	0	5
18:45	46	0	0	0	0	2	0	48	4	1	0	0	0	0	0	5
P/TOT	497	27	0	0	9	2	0	535	54	9	0	0	0	0	0	63



SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	C to D							TOT	C to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	40	23	3	0	0	0	0	66	2	0	0	0	0	0	0	2
07:15	46	13	0	0	1	0	0	60	2	0	0	0	0	0	0	2
07:30	44	18	1	0	0	0	1	64	3	1	0	0	0	0	0	4
07:45	48	13	0	0	2	0	0	63	1	0	0	0	0	0	0	1
08:00	61	13	1	0	3	0	0	78	6	0	0	0	1	0	0	7
08:15	56	15	2	0	1	0	0	74	6	1	0	0	0	0	0	7
08:30	73	8	0	0	0	0	0	81	3	0	0	0	0	0	0	3
08:45	54	6	0	1	2	0	0	63	12	0	2	0	0	0	0	14
09:00	87	11	2	0	1	0	0	101	5	2	0	0	0	0	0	7
09:15	58	6	0	0	3	0	0	67	8	0	0	0	0	0	0	8
09:30	67	9	1	0	1	1	0	79	4	0	0	0	0	0	0	4
09:45	80	9	3	1	1	0	0	94	6	1	0	0	0	0	0	7
P/TOT	714	144	13	2	15	1	1	890	58	5	2	0	1	0	0	66

TIME	C to D							TOT	C to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	182	14	1	0	1	0	0	198	5	0	0	0	0	0	0	5
16:15	160	12	0	0	2	0	0	174	3	1	0	0	0	0	0	4
16:30	121	12	1	0	2	0	0	136	8	0	0	0	0	0	0	8
16:45	139	6	0	1	0	0	0	146	7	0	0	0	0	0	0	7
17:00	148	15	1	0	1	0	0	165	7	0	0	0	0	0	0	7
17:15	111	8	0	0	1	0	0	120	3	0	0	0	0	0	0	3
17:30	114	9	0	0	2	0	0	125	7	0	0	0	0	0	0	7
17:45	102	7	0	0	0	0	0	109	5	0	0	0	0	0	0	5
18:00	134	9	0	0	1	0	0	144	4	0	0	0	0	0	0	4
18:15	92	5	0	0	1	0	0	98	4	0	0	0	0	0	0	4
18:30	101	4	0	0	1	0	0	106	8	0	0	0	0	0	0	8
18:45	92	4	0	0	1	1	0	98	5	0	0	0	0	0	0	5
P/TOT	1496	105	3	1	13	1	0	1619	66	1	0	0	0	0	0	67



SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	D to C							TOT	D to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	22	4	1	0	1	0	0	28	35	12	1	0	0	0	0	48
07:15	27	7	2	0	0	0	0	36	60	10	2	0	0	0	0	72
07:30	25	8	0	0	1	0	0	34	59	18	2	0	0	0	0	79
07:45	79	6	1	1	2	0	0	89	115	16	1	0	0	1	0	133
08:00	64	10	4	0	2	0	0	80	103	15	2	0	2	0	0	122
08:15	94	8	1	1	0	0	0	104	95	16	2	1	0	0	0	114
08:30	117	14	1	1	1	0	0	134	116	7	4	1	1	0	0	129
08:45	115	8	1	0	1	0	0	125	111	11	2	0	1	0	0	125
09:00	122	10	2	0	1	0	0	135	72	18	1	0	2	0	0	93
09:15	106	7	0	1	2	1	0	117	66	4	2	1	0	0	0	73
09:30	110	6	2	0	0	0	0	118	57	14	3	0	0	3	0	77
09:45	106	6	4	0	0	0	0	116	71	10	2	0	0	0	0	83
P/TOT	987	94	19	4	11	1	0	1116	960	151	24	3	6	4	0	1148

TIME	D to C							TOT	D to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	99	10	0	0	2	0	0	111	53	10	2	0	0	0	0	65
16:15	96	10	1	0	1	0	0	108	48	10	0	1	1	0	0	60
16:30	112	7	0	0	0	0	0	119	62	10	1	1	0	0	0	74
16:45	119	9	0	0	1	0	0	129	73	10	2	0	0	0	0	85
17:00	112	15	1	0	2	0	0	130	57	7	0	0	0	0	0	64
17:15	133	11	0	0	1	0	0	145	57	4	0	0	1	0	0	62
17:30	108	10	1	0	0	0	0	119	53	3	1	1	0	0	0	58
17:45	99	9	0	0	2	0	0	110	47	6	2	0	1	0	0	56
18:00	96	10	0	0	0	0	0	106	53	8	0	0	0	0	0	61
18:15	96	2	0	0	1	0	0	99	54	1	0	0	0	0	0	55
18:30	89	1	0	1	1	1	0	93	65	5	0	0	0	0	0	70
18:45	72	3	0	0	1	0	0	76	53	4	0	0	0	0	0	57
P/TOT	1231	97	3	1	12	1	0	1345	675	78	8	3	3	0	0	767



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	D to A							TOT	D to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
07:15	3	1	0	0	1	0	0	5	0	1	0	0	0	0	0	1
07:30	4	0	0	1	0	0	1	6	0	0	0	0	0	0	0	0
07:45	1	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0
08:00	7	4	0	0	0	0	0	11	0	0	0	0	0	0	0	0
08:15	5	3	0	0	0	0	0	8	0	0	0	0	0	0	0	0
08:30	11	5	0	0	0	0	0	16	0	0	0	0	0	0	0	0
08:45	8	3	0	0	0	0	0	11	0	1	0	0	0	0	0	1
09:00	12	4	0	0	0	0	0	16	0	1	0	0	0	0	0	1
09:15	9	4	1	0	0	0	0	14	0	0	0	0	0	0	0	0
09:30	17	6	0	1	0	0	0	24	0	0	0	0	0	0	0	0
09:45	14	1	0	0	0	0	0	15	1	0	0	0	0	0	0	1
P/TOT	95	33	1	2	1	0	1	133	1	3	0	0	0	0	0	4

TIME	D to A							TOT	D to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	11	2	0	0	0	0	0	13	1	0	0	0	0	0	0	1
16:15	17	3	0	0	0	0	0	20	1	0	0	0	0	0	0	1
16:30	14	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0
16:45	8	2	0	0	1	0	0	11	0	0	0	0	0	0	0	0
17:00	15	4	0	0	0	0	0	19	0	0	0	0	0	0	0	0
17:15	11	2	0	0	0	0	0	13	0	0	0	0	0	0	0	0
17:30	17	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0
17:45	10	1	0	0	0	0	0	11	0	0	0	0	0	0	0	0
18:00	11	3	0	0	0	0	0	14	0	0	0	0	0	0	0	0
18:15	12	2	0	0	0	0	0	14	0	0	0	0	0	0	0	0
18:30	4	2	1	0	0	0	0	7	0	0	0	0	0	0	0	0
18:45	3	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0
P/TOT	133	22	1	0	1	0	0	157	2	0	0	0	0	0	0	2



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	TO ARM A							TOT	FROM ARM A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	5	2	0	0	0	0	0	7	2	3	0	0	0	0	0	5
07:15	5	4	0	0	1	0	0	10	3	3	0	0	0	0	1	7
07:30	9	2	0	1	0	0	1	13	10	2	0	0	1	0	0	13
07:45	3	4	0	0	0	0	0	7	3	4	0	0	0	0	0	7
08:00	9	5	0	0	0	0	0	14	4	3	0	0	0	0	0	7
08:15	6	5	0	0	0	0	0	11	8	2	0	0	0	0	0	10
08:30	14	8	0	0	0	0	0	22	6	5	0	0	0	0	0	11
08:45	17	3	0	0	0	0	0	20	13	8	0	0	0	0	0	21
09:00	21	7	0	0	0	0	0	28	14	6	0	0	0	0	0	20
09:15	22	5	1	0	0	0	0	28	16	6	0	0	0	0	0	22
09:30	24	8	0	1	0	0	0	33	14	4	1	0	0	0	0	19
09:45	25	2	0	0	0	0	0	27	24	5	0	0	0	0	0	29
P/TOT	160	55	1	2	1	0	1	220	117	51	1	0	1	0	1	171

TIME	TO ARM A							TOT	FROM ARM A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	19	4	0	0	0	0	0	23	31	9	0	0	0	0	0	40
16:15	28	4	1	0	0	0	0	33	31	5	0	0	0	0	0	36
16:30	26	2	0	0	0	0	0	28	31	2	1	0	0	0	0	34
16:45	20	3	0	0	1	0	0	24	24	3	0	0	0	0	0	27
17:00	24	6	0	0	0	0	1	31	16	6	0	0	1	0	0	23
17:15	17	4	0	0	0	0	0	21	24	4	0	0	0	0	0	28
17:30	27	1	0	0	0	0	0	28	19	2	0	0	0	0	0	21
17:45	21	1	0	0	0	0	0	22	23	2	0	0	0	0	0	25
18:00	16	3	0	0	0	0	0	19	26	1	0	0	0	0	0	27
18:15	22	3	0	0	0	0	0	25	17	2	0	0	0	0	0	19
18:30	12	5	1	0	0	0	0	18	24	4	0	0	0	0	0	28
18:45	7	2	0	0	0	0	0	9	13	5	1	0	0	0	0	19
P/TOT	239	38	2	0	1	0	1	281	279	45	2	0	1	0	0	327



SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	TO ARM B							TOT	FROM ARM B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	39	15	1	0	0	0	0	55	37	17	1	0	0	0	0	55
07:15	69	11	2	0	1	0	0	83	40	11	3	0	2	0	0	56
07:30	72	22	2	0	1	0	0	97	56	14	1	0	0	0	0	71
07:45	126	18	1	0	2	1	0	148	70	12	0	1	4	1	0	88
08:00	120	16	4	1	3	0	0	144	72	12	0	0	0	0	0	84
08:15	124	17	2	1	1	0	0	145	106	15	5	0	3	0	0	129
08:30	135	14	4	1	1	0	0	155	106	14	4	1	2	0	0	127
08:45	137	14	4	0	3	0	0	158	118	18	2	0	1	0	0	139
09:00	95	22	1	0	3	0	0	121	133	21	1	0	0	0	0	155
09:15	95	10	3	1	1	0	0	110	79	20	4	0	1	3	0	107
09:30	88	14	3	0	0	3	0	108	77	18	2	0	2	0	0	99
09:45	109	14	2	0	1	0	0	126	101	11	3	1	1	0	0	117
P/TOT	1209	187	29	4	17	4	0	1450	995	183	26	3	16	4	0	1227

TIME	TO ARM B							TOT	FROM ARM B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	92	17	2	0	1	0	0	112	135	15	2	0	1	0	0	153
16:15	92	13	0	1	2	0	0	108	147	20	1	0	2	0	0	170
16:30	104	12	1	1	0	0	0	118	131	12	1	1	1	0	0	146
16:45	114	11	2	0	1	0	0	128	165	15	1	0	1	0	0	182
17:00	119	12	0	0	1	0	0	132	154	16	2	0	1	0	1	174
17:15	111	8	0	0	2	0	0	121	162	10	1	1	2	0	0	176
17:30	99	6	1	1	0	0	0	107	110	6	0	0	1	0	0	117
17:45	89	10	2	0	3	0	0	104	116	12	0	1	0	0	0	129
18:00	103	10	0	0	0	0	0	113	98	3	0	0	0	0	0	101
18:15	98	4	0	0	1	0	0	103	92	9	0	0	2	0	0	103
18:30	119	8	0	0	1	0	0	128	105	5	1	0	0	0	0	111
18:45	100	4	0	0	0	2	0	106	68	6	0	0	0	0	0	74
P/TOT	1240	115	8	3	12	2	0	1380	1483	129	9	3	11	0	1	1636



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	TO ARM C							TOT	FROM ARM C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	27	7	1	0	1	0	0	36	47	26	3	0	0	0	0	76
07:15	37	11	3	0	2	0	1	54	57	17	0	0	2	0	0	76
07:30	40	12	0	0	1	0	0	53	57	21	1	0	0	0	1	80
07:45	105	11	1	1	4	0	0	122	61	15	0	0	4	0	0	80
08:00	93	15	4	0	3	0	0	115	85	15	3	1	5	0	0	109
08:15	150	14	1	1	2	0	0	168	88	18	2	0	2	0	0	110
08:30	167	18	1	1	3	0	0	190	94	15	0	0	0	0	0	109
08:45	181	14	5	0	2	0	0	202	91	8	4	1	4	0	0	108
09:00	189	17	2	0	1	0	0	209	116	16	2	0	2	0	0	136
09:15	147	12	0	1	3	1	0	164	95	8	1	0	4	0	0	108
09:30	150	9	2	0	2	0	0	163	100	9	1	0	1	1	0	112
09:45	163	11	4	0	1	0	0	179	123	13	3	1	2	0	0	142
P/TOT	1449	151	24	4	25	1	1	1655	1014	181	20	3	26	1	1	1246

TIME	TO ARM C							TOT	FROM ARM C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	171	14	1	0	2	0	0	188	225	19	1	0	2	0	0	247
16:15	168	15	1	0	3	0	0	187	205	15	0	0	3	0	0	223
16:30	175	12	0	0	0	0	0	187	171	15	1	0	2	0	0	189
16:45	203	16	0	0	2	0	0	221	184	6	0	1	1	0	0	192
17:00	175	21	2	0	3	0	0	201	217	20	1	0	2	0	0	240
17:15	209	15	0	0	3	0	0	227	163	12	0	0	2	0	0	177
17:30	168	12	1	0	1	0	0	182	170	13	0	0	2	0	0	185
17:45	155	13	0	0	2	0	0	170	150	11	0	0	2	0	0	163
18:00	143	10	0	0	0	0	0	153	182	11	0	0	1	0	0	194
18:15	140	4	0	0	3	0	0	147	143	8	0	0	2	0	0	153
18:30	137	3	1	1	1	1	0	144	156	7	0	0	2	0	0	165
18:45	114	8	1	0	1	0	0	124	147	5	0	0	1	3	0	156
P/TOT	1958	143	7	1	21	1	0	2131	2113	142	3	1	22	3	0	2284



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	TO ARM D							TOT	FROM ARM D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	76	38	4	0	0	0	0	118	61	16	2	0	1	0	0	80
07:15	79	24	2	0	1	0	0	106	90	19	4	0	1	0	0	114
07:30	90	27	2	0	0	0	1	120	88	26	2	1	1	0	1	119
07:45	95	22	0	1	4	1	0	123	195	24	2	1	2	1	0	225
08:00	113	23	1	0	3	0	0	140	174	29	6	0	4	0	0	213
08:15	116	26	7	0	2	0	0	151	194	27	3	2	0	0	0	226
08:30	134	20	4	1	0	0	0	159	244	26	5	2	2	0	0	279
08:45	121	26	0	1	2	0	0	150	234	23	3	0	2	0	0	262
09:00	164	30	3	0	1	0	0	198	206	33	3	0	3	0	0	245
09:15	107	22	4	0	3	3	0	139	181	15	3	2	2	1	0	204
09:30	113	26	4	0	1	1	0	145	184	26	5	1	0	3	0	219
09:45	143	19	6	2	1	0	0	171	192	17	6	0	0	0	0	215
P/TOT	1351	303	37	5	18	5	1	1720	2043	281	44	9	18	5	1	2401

TIME	TO ARM D							TOT	FROM ARM D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	273	30	2	0	2	0	0	307	164	22	2	0	2	0	0	190
16:15	257	31	0	0	2	0	0	290	162	23	1	1	2	0	0	189
16:30	216	20	3	1	3	0	0	243	188	17	1	1	0	0	0	207
16:45	236	15	1	1	0	0	0	253	200	21	2	0	2	0	0	225
17:00	253	29	2	0	2	0	0	286	184	26	1	0	2	0	0	213
17:15	213	16	1	1	1	0	0	232	201	17	0	0	2	0	0	220
17:30	183	15	0	0	2	0	0	200	178	13	2	1	0	0	0	194
17:45	180	17	0	1	0	0	0	198	156	16	2	0	3	0	0	177
18:00	204	13	0	0	1	0	0	218	160	21	0	0	0	0	0	181
18:15	154	13	0	0	1	0	0	168	162	5	0	0	1	0	0	168
18:30	175	8	0	0	1	0	0	184	158	8	1	1	1	1	0	170
18:45	135	10	0	0	1	1	0	147	128	8	0	0	1	0	0	137
P/TOT	2479	217	9	4	16	1	0	2726	2041	197	12	4	16	1	0	2271



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

TIME	JUNCTION TOTAL							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	147	62	6	0	1	0	0	216
07:15	190	50	7	0	5	0	1	253
07:30	211	63	4	1	2	0	2	283
07:45	329	55	2	2	10	2	0	400
08:00	335	59	9	1	9	0	0	413
08:15	396	62	10	2	5	0	0	475
08:30	450	60	9	3	4	0	0	526
08:45	456	57	9	1	7	0	0	530
09:00	469	76	6	0	5	0	0	556
09:15	371	49	8	2	7	4	0	441
09:30	375	57	9	1	3	4	0	449
09:45	440	46	12	2	3	0	0	503
P/TOT	4169	696	91	15	61	10	3	5045

PEAK HOUR CALCULATION	
07:00 to 08:00	1152
07:15 to 08:15	1349
07:30 to 08:30	1571
07:45 to 08:45	1814
08:00 to 09:00	1944
08:15 to 09:15	2087
08:30 to 09:30	2053
08:45 to 09:45	1976
09:00 to 10:00	1949
PEAK VALUE	2087

TIME	JUNCTION TOTAL							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	555	65	5	0	5	0	0	630
16:15	545	63	2	1	7	0	0	618
16:30	521	46	4	2	3	0	0	576
16:45	573	45	3	1	4	0	0	626
17:00	571	68	4	0	6	0	1	650
17:15	550	43	1	1	6	0	0	601
17:30	477	34	2	1	3	0	0	517
17:45	445	41	2	1	5	0	0	494
18:00	466	36	0	0	1	0	0	503
18:15	414	24	0	0	5	0	0	443
18:30	443	24	2	1	3	1	0	474
18:45	356	24	1	0	2	3	0	386
P/TOT	5916	513	26	8	50	4	1	6518

PEAK HOUR CALCULATION	
16:00 to 17:00	2450
16:15 to 17:15	2470
16:30 to 17:30	2453
16:45 to 17:45	2394
17:00 to 18:00	2262
17:15 to 18:15	2115
17:30 to 18:30	1957
17:45 to 18:45	1914
18:00 to 19:00	1806
PEAK VALUE	2470



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	A to D							TOT	A to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	39	4	1	0	0	0	0	44	70	9	1	1	0	0	0	81
10:15	53	4	0	0	0	0	0	57	80	3	0	0	0	0	0	83
10:30	47	6	0	0	0	0	0	53	66	9	1	0	0	0	0	76
10:45	47	2	1	0	0	0	0	50	80	9	3	0	0	0	0	92
11:00	36	4	0	0	0	0	0	40	76	8	0	0	0	0	0	84
11:15	53	4	0	0	0	1	0	58	90	8	1	1	0	0	0	100
11:30	53	1	0	0	0	0	0	54	91	7	2	0	0	0	0	100
11:45	55	3	0	0	0	0	0	58	84	4	0	2	0	0	0	90
12:00	49	5	0	0	1	1	0	56	85	3	0	1	0	0	0	89
12:15	52	5	0	0	0	0	0	57	85	9	0	1	0	0	0	95
12:30	57	1	0	0	0	0	0	58	87	3	3	0	0	0	0	93
12:45	52	7	1	0	0	0	0	60	76	6	0	0	0	0	0	82
13:00	48	2	0	0	0	0	0	50	85	1	1	0	0	0	0	87
13:15	59	2	1	0	0	0	0	62	68	5	1	0	0	0	0	74
13:30	43	4	0	0	1	0	0	48	85	6	1	0	0	0	0	92
13:45	42	3	1	0	0	0	0	46	113	9	1	0	0	0	0	123
14:00	42	2	0	0	0	0	0	44	83	6	0	1	0	0	0	90
14:15	43	1	0	0	0	0	0	44	77	3	1	0	1	0	0	82
14:30	35	6	0	0	0	0	0	41	85	3	0	2	0	0	0	90
14:45	46	2	0	0	0	0	0	48	93	7	1	1	0	0	0	102
15:00	25	3	1	0	0	0	0	29	77	6	0	0	0	0	0	83
15:15	33	3	0	0	0	0	0	36	74	2	1	1	1	0	0	79
15:30	35	1	0	0	0	0	0	36	57	1	1	1	0	2	0	62
15:45	21	0	0	0	0	0	0	21	81	5	0	1	0	0	0	87
P/TOT	1065	75	6	0	2	2	0	1150	1948	132	19	13	2	2	0	2116



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	A to B							TOT	A to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	77	6	0	0	1	0	0	84	0	0	0	0	0	0	0	0
10:15	90	2	0	0	0	0	0	92	0	0	0	0	0	0	0	0
10:30	84	12	0	0	0	1	0	97	0	0	0	0	0	0	0	0
10:45	110	3	0	1	0	0	0	114	0	0	0	0	0	0	0	0
11:00	91	5	1	0	1	0	0	98	0	0	0	0	0	0	0	0
11:15	105	9	0	1	0	0	0	115	0	0	0	0	0	0	0	0
11:30	96	4	1	0	1	0	0	102	0	0	0	0	0	0	0	0
11:45	105	8	0	0	1	0	0	114	0	0	0	0	0	0	0	0
12:00	107	10	1	0	0	0	0	118	0	0	0	0	0	0	0	0
12:15	97	8	0	0	0	0	0	105	0	0	0	0	0	0	0	0
12:30	101	7	1	0	1	0	0	110	0	0	0	0	0	0	0	0
12:45	104	6	0	0	0	0	0	110	0	0	0	0	0	0	0	0
13:00	119	4	0	0	0	0	0	123	0	0	0	0	0	0	0	0
13:15	92	9	0	0	0	0	0	101	0	0	0	0	0	0	0	0
13:30	88	4	0	0	1	0	0	93	0	0	0	0	0	0	0	0
13:45	65	5	0	0	0	0	0	70	0	0	0	0	0	0	0	0
14:00	70	5	0	0	0	0	0	75	0	0	0	0	0	0	0	0
14:15	102	5	0	0	0	1	0	108	0	0	0	0	0	0	0	0
14:30	86	1	0	0	1	0	0	88	0	0	0	0	0	0	0	0
14:45	58	4	0	0	0	0	0	62	0	0	0	0	0	0	0	0
15:00	76	2	1	0	0	0	0	79	0	0	0	0	0	0	0	0
15:15	66	7	0	0	0	0	0	73	0	0	0	0	0	0	0	0
15:30	54	2	0	0	1	0	0	57	0	0	0	0	0	0	0	0
15:45	75	1	0	0	0	0	0	76	0	0	0	0	0	0	0	0
P/TOT	2118	129	5	2	8	2	0	2264	0	0	0	0	0	0	0	0



SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	B to A							TOT	B to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	43	4	0	0	0	0	0	47	61	6	0	0	0	0	0	67
10:15	60	3	0	0	1	0	0	64	46	5	0	0	0	0	0	51
10:30	59	6	1	0	0	0	0	66	50	5	1	0	2	0	0	58
10:45	70	12	0	1	0	0	0	83	52	9	0	0	1	0	0	62
11:00	74	9	1	0	0	0	0	84	66	2	0	0	0	0	0	68
11:15	88	10	1	0	1	0	0	100	53	2	2	0	1	0	1	59
11:30	88	4	1	0	0	0	0	93	68	3	0	0	1	0	0	72
11:45	60	2	0	0	0	0	0	62	67	7	0	0	0	1	0	75
12:00	106	10	1	0	0	0	0	117	64	8	0	0	0	0	0	72
12:15	90	6	0	1	1	0	0	98	76	5	1	0	1	0	0	83
12:30	95	12	0	0	0	0	0	107	79	2	0	0	1	0	0	82
12:45	101	8	0	0	0	0	0	109	62	2	1	0	1	0	0	66
13:00	94	8	1	0	0	0	0	103	69	5	0	0	0	0	0	74
13:15	88	5	0	0	1	0	0	94	91	5	0	0	1	0	0	97
13:30	94	3	0	0	0	0	0	97	93	5	0	0	1	0	0	99
13:45	91	4	0	0	0	0	0	95	69	2	0	0	1	0	0	72
14:00	91	6	0	0	0	0	0	97	60	6	0	0	0	0	0	66
14:15	97	5	0	0	1	0	0	103	60	3	0	0	1	0	0	64
14:30	91	3	0	0	0	0	0	94	65	3	0	0	1	0	0	69
14:45	96	6	1	0	0	0	0	103	70	0	0	0	1	0	0	71
15:00	110	6	0	0	0	0	0	116	71	5	0	0	0	0	0	76
15:15	118	6	0	0	1	0	0	125	80	2	0	0	0	0	0	82
15:30	123	9	0	0	0	0	0	132	66	5	0	0	2	0	0	73
15:45	103	9	0	0	1	0	0	113	53	4	0	0	1	0	0	58
P/TOT	2130	156	7	2	7	0	0	2302	1591	101	5	0	17	1	1	1716



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	B to C							TOT	B to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	52	3	1	0	0	0	0	56	0	0	0	0	0	0	0	0
10:15	48	6	1	0	0	0	0	55	0	0	0	0	0	0	0	0
10:30	52	2	0	0	1	1	0	56	0	0	0	0	0	0	0	0
10:45	65	8	1	1	0	1	0	76	0	0	0	0	0	0	0	0
11:00	70	4	0	0	0	2	0	76	0	0	0	0	0	0	0	0
11:15	76	4	0	0	0	0	0	80	0	0	0	0	0	0	0	0
11:30	76	7	0	0	0	0	0	83	0	0	0	0	0	0	0	0
11:45	88	9	0	0	0	0	0	97	0	0	0	0	0	0	0	0
12:00	90	6	1	0	0	0	0	97	0	0	0	0	0	0	0	0
12:15	96	4	1	0	0	0	0	101	0	0	0	0	0	0	0	0
12:30	85	3	0	0	0	0	0	88	0	0	0	0	0	0	0	0
12:45	86	4	0	0	0	0	0	90	0	0	0	0	0	0	0	0
13:00	104	4	0	0	0	0	0	108	0	0	0	0	0	0	0	0
13:15	87	9	0	0	0	0	0	96	0	0	0	0	0	0	0	0
13:30	82	3	1	0	0	0	0	86	0	0	0	0	0	0	0	0
13:45	83	6	1	0	0	0	0	90	0	0	0	0	0	0	0	0
14:00	93	5	0	0	0	0	0	98	0	0	0	0	0	0	0	0
14:15	86	3	0	0	0	0	0	89	0	0	0	0	0	0	0	0
14:30	96	5	0	0	0	0	0	101	0	0	0	0	0	0	0	0
14:45	84	3	0	0	0	1	0	88	0	0	0	0	0	0	0	0
15:00	88	3	0	0	0	0	0	91	0	0	0	0	0	0	0	0
15:15	88	5	0	0	0	0	0	93	0	0	0	0	0	0	0	0
15:30	90	3	0	0	0	0	0	93	0	0	0	0	0	0	0	0
15:45	75	3	0	0	0	1	0	79	0	0	0	0	0	0	0	0
P/TOT	1940	112	7	1	1	6	0	2067	0	0	0	0	0	0	0	0



SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	C to B							TOT	C to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	57	4	0	0	0	0	0	61	95	4	0	0	0	0	0	99
10:15	50	4	0	0	0	0	0	54	103	10	0	0	0	0	0	113
10:30	64	8	0	0	0	0	0	72	96	9	3	0	0	1	0	109
10:45	91	4	1	0	0	1	0	97	86	5	0	0	0	0	0	91
11:00	62	5	1	0	0	0	0	68	89	7	0	3	0	0	0	99
11:15	88	3	1	0	0	0	0	92	93	5	1	0	0	0	0	99
11:30	67	4	0	0	0	0	0	71	112	11	0	0	0	0	0	123
11:45	55	2	0	0	0	0	0	57	102	6	4	0	0	0	0	112
12:00	79	2	0	0	0	0	0	81	89	5	2	0	0	0	0	96
12:15	76	6	0	0	0	0	0	82	93	6	0	0	0	0	0	99
12:30	77	3	0	0	0	0	0	80	89	5	0	1	0	0	0	95
12:45	72	2	0	0	0	0	0	74	92	6	0	0	0	0	0	98
13:00	60	4	0	0	0	0	0	64	100	4	0	0	0	0	0	104
13:15	86	3	1	0	0	0	0	90	88	6	0	1	0	2	0	97
13:30	72	1	0	0	0	0	0	73	94	9	0	1	0	0	0	104
13:45	67	5	0	0	0	0	0	72	84	9	0	0	1	0	0	94
14:00	70	1	0	0	0	0	0	71	74	2	1	2	0	0	0	79
14:15	68	3	0	0	0	0	0	71	84	4	0	1	0	0	0	89
14:30	59	0	0	0	0	0	0	59	76	4	2	0	0	0	0	82
14:45	64	1	0	0	0	0	0	65	80	5	0	1	0	0	0	86
15:00	80	4	0	0	0	0	0	84	92	7	0	1	0	0	0	100
15:15	52	2	0	0	0	0	0	54	85	4	0	0	0	0	0	89
15:30	61	5	0	0	0	0	0	66	59	6	0	1	0	0	0	66
15:45	63	2	0	0	0	0	0	65	62	7	0	1	0	1	0	71
P/TOT	1640	78	4	0	0	1	0	1723	2117	146	13	13	1	4	0	2294



SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	C to D							TOT	C to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	46	3	0	0	0	0	0	49	0	0	0	0	0	0	0	0
10:15	57	4	0	0	0	0	0	61	0	0	0	0	0	0	0	0
10:30	68	3	0	0	0	0	0	71	0	0	0	0	0	0	0	0
10:45	65	3	0	0	0	0	0	68	0	0	0	0	0	0	0	0
11:00	61	4	0	0	0	0	0	65	0	0	0	0	0	0	0	0
11:15	67	6	0	0	0	0	0	73	0	0	0	0	0	0	0	0
11:30	70	4	0	0	0	0	0	74	0	0	0	0	0	0	0	0
11:45	67	4	1	0	1	0	0	73	0	0	0	0	0	0	0	0
12:00	87	5	0	0	0	0	0	92	0	0	0	0	0	0	0	0
12:15	55	4	0	0	0	0	0	59	0	0	0	0	0	0	0	0
12:30	71	2	1	0	0	0	0	74	0	0	0	0	0	0	0	0
12:45	70	3	0	0	0	0	0	73	0	0	0	0	0	0	0	0
13:00	58	5	0	0	0	0	0	63	0	0	0	0	0	0	0	0
13:15	51	1	0	0	0	0	0	52	0	0	0	0	0	0	0	0
13:30	70	5	0	0	0	0	0	75	0	0	0	0	0	0	0	0
13:45	66	4	0	0	0	1	0	71	0	0	0	0	0	0	0	0
14:00	77	6	0	0	0	1	0	84	0	0	0	0	0	0	0	0
14:15	66	4	1	0	0	0	0	71	0	0	0	0	0	0	0	0
14:30	56	5	1	0	0	0	0	62	0	0	0	0	0	0	0	0
14:45	68	2	0	0	0	0	0	70	0	0	0	0	0	0	0	0
15:00	61	4	0	0	0	0	0	65	0	0	0	0	0	0	0	0
15:15	72	2	1	0	0	0	0	75	0	0	0	0	0	0	0	0
15:30	73	2	0	0	0	0	0	75	0	0	0	0	0	0	0	0
15:45	46	4	0	0	0	0	0	50	0	0	0	0	0	0	0	0
P/TOT	1548	89	5	0	1	2	0	1645	0	0	0	0	0	0	0	0



SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	D to C							TOT	D to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	18	4	0	0	0	0	0	22	35	3	0	0	1	0	0	39
10:15	39	3	1	0	0	0	0	43	68	13	0	0	1	0	0	82
10:30	49	7	1	0	0	0	0	57	60	6	0	0	1	1	0	68
10:45	48	3	0	0	0	0	0	51	59	5	0	0	0	0	0	64
11:00	63	4	0	0	0	0	0	67	51	6	0	0	1	0	0	58
11:15	60	8	0	0	0	0	0	68	49	4	1	0	1	0	0	55
11:30	68	3	0	0	0	0	0	71	70	4	0	0	0	0	0	74
11:45	69	3	0	0	0	0	0	72	85	5	0	0	0	0	0	90
12:00	71	1	0	0	0	0	0	72	58	4	0	0	1	0	0	63
12:15	70	4	1	0	0	0	0	75	63	3	0	0	0	0	0	66
12:30	66	3	0	0	0	0	0	69	77	3	0	0	1	0	0	81
12:45	63	3	0	0	0	0	0	66	70	7	0	0	0	0	0	77
13:00	63	3	0	0	0	0	0	66	83	7	1	0	2	0	0	93
13:15	80	3	0	0	0	0	0	83	72	3	0	0	0	0	0	75
13:30	81	5	0	0	0	0	0	86	77	1	0	0	1	0	0	79
13:45	68	5	0	0	0	0	0	73	67	4	0	0	0	0	0	71
14:00	60	7	1	0	1	0	0	69	78	2	0	0	2	1	0	83
14:15	77	3	0	0	0	0	0	80	61	1	0	0	0	0	0	62
14:30	61	2	0	0	0	0	0	63	62	2	1	0	1	0	0	66
14:45	73	7	0	0	0	0	0	80	72	4	0	0	0	0	0	76
15:00	65	3	0	0	0	0	0	68	78	2	0	0	1	0	0	81
15:15	57	1	0	0	0	0	0	58	65	5	0	0	1	3	0	74
15:30	76	4	0	0	0	0	0	80	61	3	0	0	1	0	0	65
15:45	56	1	0	0	0	0	0	57	61	6	0	0	0	0	0	67
P/TOT	1501	90	4	0	1	0	0	1596	1582	103	3	0	16	5	0	1709



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	D to A							TOT	D to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	14	3	1	0	0	0	0	18	0	0	0	0	0	0	0	0
10:15	23	1	0	0	0	0	0	24	0	0	0	0	0	0	0	0
10:30	28	5	1	0	0	0	0	34	0	0	0	0	0	0	0	0
10:45	30	2	0	0	0	0	0	32	0	0	0	0	0	0	0	0
11:00	27	2	0	0	0	0	0	29	0	0	0	0	0	0	0	0
11:15	43	2	0	0	0	0	0	45	0	0	0	0	0	0	0	0
11:30	37	7	0	0	0	0	0	44	0	0	0	0	0	0	0	0
11:45	42	5	0	0	0	0	0	47	0	0	0	0	0	0	0	0
12:00	26	1	0	0	0	1	0	28	0	0	0	0	0	0	0	0
12:15	42	2	1	0	0	0	0	45	0	0	0	0	0	0	0	0
12:30	37	5	0	0	0	1	0	43	0	0	0	0	0	0	0	0
12:45	43	5	0	0	0	1	0	49	0	0	0	0	0	0	0	0
13:00	46	3	0	0	0	0	0	49	0	0	0	0	0	0	0	0
13:15	41	3	0	0	0	0	0	44	0	0	0	0	0	0	0	0
13:30	46	3	0	0	0	0	0	49	0	0	0	0	0	0	0	0
13:45	48	3	0	0	0	0	0	51	0	0	0	0	0	0	0	0
14:00	49	2	0	0	0	0	0	51	0	0	0	0	0	0	0	0
14:15	42	3	0	0	0	0	0	45	0	0	0	0	0	0	0	0
14:30	41	2	0	0	0	0	0	43	0	0	0	0	0	0	0	0
14:45	42	1	1	0	0	0	0	44	0	0	0	0	0	0	0	0
15:00	44	2	0	0	0	0	0	46	0	0	0	0	0	0	0	0
15:15	29	1	0	0	0	0	0	30	0	0	0	0	0	0	0	0
15:30	58	4	0	0	0	0	0	62	0	0	0	0	0	0	0	0
15:45	54	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0
P/TOT	932	67	4	0	0	3	0	1006	0	0	0	0	0	0	0	0



SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	TO ARM A							TOT	FROM ARM A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	152	11	1	0	0	0	0	164	186	19	2	1	1	0	0	209
10:15	186	14	0	0	1	0	0	201	223	9	0	0	0	0	0	232
10:30	183	20	5	0	0	1	0	209	197	27	1	0	0	1	0	226
10:45	186	19	0	1	0	0	0	206	237	14	4	1	0	0	0	256
11:00	190	18	1	3	0	0	0	212	203	17	1	0	1	0	0	222
11:15	224	17	2	0	1	0	0	244	248	21	1	2	0	1	0	273
11:30	237	22	1	0	0	0	0	260	240	12	3	0	1	0	0	256
11:45	204	13	4	0	0	0	0	221	244	15	0	2	1	0	0	262
12:00	221	16	3	0	0	1	0	241	241	18	1	1	1	1	0	263
12:15	225	14	1	1	1	0	0	242	234	22	0	1	0	0	0	257
12:30	221	22	0	1	0	1	0	245	245	11	4	0	1	0	0	261
12:45	236	19	0	0	0	1	0	256	232	19	1	0	0	0	0	252
13:00	240	15	1	0	0	0	0	256	252	7	1	0	0	0	0	260
13:15	217	14	0	1	1	2	0	235	219	16	2	0	0	0	0	237
13:30	234	15	0	1	0	0	0	250	216	14	1	0	2	0	0	233
13:45	223	16	0	0	1	0	0	240	220	17	2	0	0	0	0	239
14:00	214	10	1	2	0	0	0	227	195	13	0	1	0	0	0	209
14:15	223	12	0	1	1	0	0	237	222	9	1	0	1	1	0	234
14:30	208	9	2	0	0	0	0	219	206	10	0	2	1	0	0	219
14:45	218	12	2	1	0	0	0	233	197	13	1	1	0	0	0	212
15:00	246	15	0	1	0	0	0	262	178	11	2	0	0	0	0	191
15:15	232	11	0	0	1	0	0	244	173	12	1	1	1	0	0	188
15:30	240	19	0	1	0	0	0	260	146	4	1	1	1	2	0	155
15:45	219	16	0	1	1	1	0	238	177	6	0	1	0	0	0	184
P/TOT	5179	369	24	15	8	7	0	5602	5131	336	30	15	12	6	0	5530



SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	TO ARM B							TOT	FROM ARM B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	169	13	0	0	2	0	0	184	156	13	1	0	0	0	0	170
10:15	208	19	0	0	1	0	0	228	154	14	1	0	1	0	0	170
10:30	208	26	0	0	1	2	0	237	161	13	2	0	3	1	0	180
10:45	260	12	1	1	0	1	0	275	187	29	1	2	1	1	0	221
11:00	204	16	2	0	2	0	0	224	210	15	1	0	0	2	0	228
11:15	242	16	2	1	1	0	0	262	217	16	3	0	2	0	1	239
11:30	233	12	1	0	1	0	0	247	232	14	1	0	1	0	0	248
11:45	245	15	0	0	1	0	0	261	215	18	0	0	0	1	0	234
12:00	244	16	1	0	1	0	0	262	260	24	2	0	0	0	0	286
12:15	236	17	0	0	0	0	0	253	262	15	2	1	2	0	0	282
12:30	255	13	1	0	2	0	0	271	259	17	0	0	1	0	0	277
12:45	246	15	0	0	0	0	0	261	249	14	1	0	1	0	0	265
13:00	262	15	1	0	2	0	0	280	267	17	1	0	0	0	0	285
13:15	250	15	1	0	0	0	0	266	266	19	0	0	2	0	0	287
13:30	237	6	0	0	2	0	0	245	269	11	1	0	1	0	0	282
13:45	199	14	0	0	0	0	0	213	243	12	1	0	1	0	0	257
14:00	218	8	0	0	2	1	0	229	244	17	0	0	0	0	0	261
14:15	231	9	0	0	0	1	0	241	243	11	0	0	2	0	0	256
14:30	207	3	1	0	2	0	0	213	252	11	0	0	1	0	0	264
14:45	194	9	0	0	0	0	0	203	250	9	1	0	1	1	0	262
15:00	234	8	1	0	1	0	0	244	269	14	0	0	0	0	0	283
15:15	183	14	0	0	1	3	0	201	286	13	0	0	1	0	0	300
15:30	176	10	0	0	2	0	0	188	279	17	0	0	2	0	0	298
15:45	199	9	0	0	0	0	0	208	231	16	0	0	2	1	0	250
P/TOT	5340	310	12	2	24	8	0	5696	5661	369	19	3	25	7	1	6085



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	TO ARM C							TOT	FROM ARM C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	140	16	2	1	0	0	0	159	198	11	0	0	0	0	0	209
10:15	167	12	2	0	0	0	0	181	210	18	0	0	0	0	0	228
10:30	167	18	2	0	1	1	0	189	228	20	3	0	0	1	0	252
10:45	193	20	4	1	0	1	0	219	242	12	1	0	0	1	0	256
11:00	209	16	0	0	0	2	0	227	212	16	1	3	0	0	0	232
11:15	226	20	1	1	0	0	0	248	248	14	2	0	0	0	0	264
11:30	235	17	2	0	0	0	0	254	249	19	0	0	0	0	0	268
11:45	241	16	0	2	0	0	0	259	224	12	5	0	1	0	0	242
12:00	246	10	1	1	0	0	0	258	255	12	2	0	0	0	0	269
12:15	251	17	2	1	0	0	0	271	224	16	0	0	0	0	0	240
12:30	238	9	3	0	0	0	0	250	237	10	1	1	0	0	0	249
12:45	225	13	0	0	0	0	0	238	234	11	0	0	0	0	0	245
13:00	252	8	1	0	0	0	0	261	218	13	0	0	0	0	0	231
13:15	235	17	1	0	0	0	0	253	225	10	1	1	0	2	0	239
13:30	248	14	2	0	0	0	0	264	236	15	0	1	0	0	0	252
13:45	264	20	2	0	0	0	0	286	217	18	0	0	1	1	0	237
14:00	236	18	1	1	1	0	0	257	221	9	1	2	0	1	0	234
14:15	240	9	1	0	1	0	0	251	218	11	1	1	0	0	0	231
14:30	242	10	0	2	0	0	0	254	191	9	3	0	0	0	0	203
14:45	250	17	1	1	0	1	0	270	212	8	0	1	0	0	0	221
15:00	230	12	0	0	0	0	0	242	233	15	0	1	0	0	0	249
15:15	219	8	1	1	1	0	0	230	209	8	1	0	0	0	0	218
15:30	223	8	1	1	0	2	0	235	193	13	0	1	0	0	0	207
15:45	212	9	0	1	0	1	0	223	171	13	0	1	0	1	0	186
P/TOT	5389	334	30	14	4	8	0	5779	5305	313	22	13	2	7	0	5662



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	TO ARM D							TOT	FROM ARM D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	146	13	1	0	0	0	0	160	67	10	1	0	1	0	0	79
10:15	156	13	0	0	0	0	0	169	130	17	1	0	1	0	0	149
10:30	165	14	1	0	2	0	0	182	137	18	2	0	1	1	0	159
10:45	164	14	1	0	1	0	0	180	137	10	0	0	0	0	0	147
11:00	163	10	0	0	0	0	0	173	141	12	0	0	1	0	0	154
11:15	173	12	2	0	1	1	1	190	152	14	1	0	1	0	0	168
11:30	191	8	0	0	1	0	0	200	175	14	0	0	0	0	0	189
11:45	189	14	1	0	1	1	0	206	196	13	0	0	0	0	0	209
12:00	200	18	0	0	1	1	0	220	155	6	0	0	1	1	0	163
12:15	183	14	1	0	1	0	0	199	175	9	2	0	0	0	0	186
12:30	207	5	1	0	1	0	0	214	180	11	0	0	1	1	0	193
12:45	184	12	2	0	1	0	0	199	176	15	0	0	0	1	0	192
13:00	175	12	0	0	0	0	0	187	192	13	1	0	2	0	0	208
13:15	201	8	1	0	1	0	0	211	193	9	0	0	0	0	0	202
13:30	206	14	0	0	2	0	0	222	204	9	0	0	1	0	0	214
13:45	177	9	1	0	1	1	0	189	183	12	0	0	0	0	0	195
14:00	179	14	0	0	0	1	0	194	187	11	1	0	3	1	0	203
14:15	169	8	1	0	1	0	0	179	180	7	0	0	0	0	0	187
14:30	156	14	1	0	1	0	0	172	164	6	1	0	1	0	0	172
14:45	184	4	0	0	1	0	0	189	187	12	1	0	0	0	0	200
15:00	157	12	1	0	0	0	0	170	187	7	0	0	1	0	0	195
15:15	185	7	1	0	0	0	0	193	151	7	0	0	1	3	0	162
15:30	174	8	0	0	2	0	0	184	195	11	0	0	1	0	0	207
15:45	120	8	0	0	1	0	0	129	171	7	0	0	0	0	0	178
P/TOT	4204	265	16	0	20	5	1	4511	4015	260	11	0	17	8	0	4311



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

TIME	JUNCTION TOTAL							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
10:00	607	53	4	1	2	0	0	667
10:15	717	58	2	0	2	0	0	779
10:30	723	78	8	0	4	4	0	817
10:45	803	65	6	3	1	2	0	880
11:00	766	60	3	3	2	2	0	836
11:15	865	65	7	2	3	1	1	944
11:30	896	59	4	0	2	0	0	961
11:45	879	58	5	2	2	1	0	947
12:00	911	60	5	1	2	2	0	981
12:15	895	62	4	2	2	0	0	965
12:30	921	49	5	1	3	1	0	980
12:45	891	59	2	0	1	1	0	954
13:00	929	50	3	0	2	0	0	984
13:15	903	54	3	1	2	2	0	965
13:30	925	49	2	1	4	0	0	981
13:45	863	59	3	0	2	1	0	928
14:00	847	50	2	3	3	2	0	907
14:15	863	38	2	1	3	1	0	908
14:30	813	36	4	2	3	0	0	858
14:45	846	42	3	2	1	1	0	895
15:00	867	47	2	1	1	0	0	918
15:15	819	40	2	1	3	3	0	868
15:30	813	45	1	2	4	2	0	867
15:45	750	42	0	2	2	2	0	798
P/TOT	20112	1278	82	31	56	28	1	21588

PEAK HOUR CALCULATION	
10:00 to 11:00	3143
10:15 to 11:15	3312
10:30 to 11:30	3477
10:45 to 11:45	3621
11:00 to 12:00	3688
11:15 to 12:15	3833
11:30 to 12:30	3854
11:45 to 12:45	3873
12:00 to 13:00	3880
12:15 to 13:15	3883
12:30 to 13:30	3883
12:45 to 13:45	3884
13:00 to 14:00	3858
13:15 to 14:15	3781
13:30 to 14:30	3724
13:45 to 14:45	3601
14:00 to 15:00	3568
14:15 to 15:15	3579
14:30 to 15:30	3539
14:45 to 15:45	3548



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	A to D							TOT	A to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	5	0	0	0	1	0	0	6	64	17	3	3	1	0	0	88
07:15	10	2	0	0	0	0	0	12	83	25	5	3	1	0	0	117
07:30	5	6	0	0	0	0	0	11	96	30	7	1	1	0	0	135
07:45	11	3	1	0	0	0	0	15	109	27	6	8	0	0	0	150
08:00	12	3	2	0	0	0	0	17	121	18	4	3	1	0	0	147
08:15	16	4	0	0	0	0	0	20	125	23	4	4	1	1	0	158
08:30	23	5	2	0	0	0	0	30	119	18	7	5	0	0	0	149
08:45	18	1	0	0	0	0	0	19	93	16	3	6	1	1	0	120
09:00	15	3	0	0	0	0	0	18	90	23	10	6	1	0	0	130
09:15	14	3	0	0	0	0	0	17	81	15	5	3	0	0	0	104
09:30	20	2	0	0	0	0	0	22	72	20	2	2	2	0	0	98
09:45	19	3	1	0	0	0	0	23	66	13	4	4	2	0	0	89
P/TOT	168	35	6	0	1	0	0	210	1119	245	60	48	11	2	0	1485

TIME	A to D							TOT	A to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	28	7	1	0	0	0	0	36	118	27	3	0	1	0	0	149
16:15	25	6	1	0	0	0	0	32	90	24	2	2	0	0	0	118
16:30	26	1	0	0	0	0	0	27	120	20	4	1	1	0	0	146
16:45	21	11	0	0	0	0	0	32	86	18	0	2	0	0	0	106
17:00	27	6	0	0	0	0	0	33	114	19	2	1	0	0	0	136
17:15	15	4	0	0	0	0	0	19	79	21	1	2	0	1	0	104
17:30	17	3	0	0	0	0	0	20	86	12	2	0	0	0	0	100
17:45	14	7	0	0	0	0	0	21	66	9	1	0	0	0	0	76
18:00	13	2	0	0	0	0	0	15	74	5	0	1	0	0	0	80
18:15	7	2	0	0	0	0	0	9	67	5	0	1	0	0	0	73
18:30	10	1	0	0	0	0	0	11	49	9	0	3	0	0	0	61
18:45	6	1	0	0	0	0	0	7	47	10	1	0	0	0	0	58
P/TOT	209	51	2	0	0	0	0	262	996	179	16	13	2	1	0	1207



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	A to B							TOT	A to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	21	1	0	0	0	0	0	22	0	0	0	0	0	0	0	0
07:15	25	7	1	0	0	0	0	33	0	0	0	0	0	0	0	0
07:30	16	5	0	0	0	0	0	21	0	0	0	0	0	0	0	0
07:45	56	10	0	1	1	0	0	68	0	0	0	0	0	0	0	0
08:00	35	13	2	0	0	0	0	50	0	0	0	0	0	0	0	0
08:15	52	10	2	1	0	0	0	65	0	0	0	0	0	0	0	0
08:30	86	8	1	0	1	0	0	96	0	0	0	0	0	0	0	0
08:45	79	11	2	0	0	0	0	92	0	0	0	0	0	0	0	0
09:00	83	8	1	0	2	0	0	94	0	0	0	0	0	0	0	0
09:15	64	6	1	1	0	1	0	73	0	0	0	0	0	0	0	0
09:30	65	8	1	0	0	1	0	75	0	0	0	0	0	0	0	0
09:45	62	6	2	0	0	0	0	70	0	0	0	0	0	0	0	0
P/TOT	644	93	13	3	4	2	0	759	0	0	0	0	0	0	0	0

TIME	A to B							TOT	A to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	46	11	0	0	1	0	0	58	0	0	0	0	0	0	0	0
16:15	60	12	1	0	0	0	0	73	0	0	0	0	0	0	0	0
16:30	69	6	1	0	0	0	0	76	0	0	0	0	0	0	0	0
16:45	82	7	0	0	1	0	0	90	0	0	0	0	0	0	0	0
17:00	68	14	1	0	1	0	0	84	0	0	0	0	0	0	0	0
17:15	76	9	0	0	1	0	0	86	0	0	0	0	0	0	0	0
17:30	65	10	1	0	0	0	0	76	0	0	0	0	0	0	0	0
17:45	60	6	1	0	1	0	0	68	0	0	0	0	0	0	0	0
18:00	60	13	0	0	0	1	0	74	0	0	0	0	0	0	0	0
18:15	60	5	0	0	0	0	0	65	0	0	0	0	0	0	0	0
18:30	48	5	1	0	0	0	0	54	0	0	0	0	0	0	0	0
18:45	37	3	0	0	1	0	0	41	0	0	0	0	0	0	0	0
P/TOT	731	101	6	0	6	1	0	845	0	0	0	0	0	0	0	0



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	B to A							TOT	B to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	28	17	2	0	0	0	0	47	11	6	1	0	0	0	0	18
07:15	33	16	0	0	1	0	0	50	13	5	2	0	0	0	0	20
07:30	22	10	1	0	0	0	0	33	22	6	0	0	0	0	0	28
07:45	30	10	0	0	2	1	0	43	23	5	0	0	2	0	0	30
08:00	36	5	1	0	2	0	0	44	32	8	0	0	1	0	0	41
08:15	35	10	5	0	0	0	0	50	37	7	1	0	2	0	0	47
08:30	32	10	0	0	0	0	0	42	43	5	2	0	0	0	0	50
08:45	39	11	0	0	1	0	0	51	39	8	0	0	0	0	0	47
09:00	53	12	2	0	0	0	0	67	63	8	0	0	1	0	0	72
09:15	26	9	1	0	2	0	0	38	40	9	2	0	1	3	0	55
09:30	33	9	1	0	0	0	0	43	47	7	1	0	1	1	0	57
09:45	39	5	3	1	0	0	0	48	62	7	1	0	1	0	0	71
P/TOT	406	124	16	1	8	1	0	556	432	81	10	0	9	4	0	536

TIME	B to A							TOT	B to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	93	10	0	0	0	0	0	103	91	8	0	0	1	0	0	100
16:15	97	16	0	0	2	0	0	115	71	12	0	0	0	0	0	83
16:30	74	10	1	0	0	0	0	85	66	3	1	0	3	0	0	73
16:45	95	5	0	1	0	0	0	101	78	7	1	0	0	0	0	86
17:00	71	10	1	0	0	0	0	82	91	9	1	0	1	0	0	102
17:15	72	6	0	1	1	0	0	80	67	8	0	0	0	0	0	75
17:30	60	4	0	0	0	0	0	64	54	8	0	0	2	0	0	64
17:45	67	5	0	0	0	0	0	72	56	8	0	0	0	0	0	64
18:00	73	9	0	0	0	0	0	82	63	2	0	0	1	0	0	66
18:15	54	4	0	0	1	0	0	59	57	4	0	0	0	0	0	61
18:30	62	7	0	0	0	0	0	69	51	0	0	0	1	0	0	52
18:45	54	5	0	0	0	0	0	59	40	0	0	0	1	0	0	41
P/TOT	872	91	2	2	4	0	0	971	785	69	3	0	10	0	0	867



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	B to C							TOT	B to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	35	15	1	0	0	0	0	51	0	0	0	0	0	0	0	0
07:15	35	3	0	0	0	0	0	38	0	0	0	0	0	0	0	0
07:30	47	10	1	0	0	0	0	58	0	0	0	0	0	0	0	0
07:45	39	8	0	1	0	0	0	48	0	0	0	0	0	0	0	0
08:00	46	7	0	0	0	0	0	53	0	0	0	0	0	0	0	0
08:15	46	12	1	0	0	0	0	59	0	0	0	0	0	0	0	0
08:30	59	5	2	1	0	0	0	67	0	0	0	0	0	0	0	0
08:45	38	7	0	1	1	0	0	47	0	0	0	0	0	0	0	0
09:00	45	10	1	0	0	0	0	56	0	0	0	0	0	0	0	0
09:15	47	4	1	0	0	0	0	52	0	0	0	0	0	0	0	0
09:30	34	10	2	0	0	0	0	46	0	0	0	0	0	0	0	0
09:45	42	7	2	1	0	0	0	52	0	0	0	0	0	0	0	0
P/TOT	513	98	11	4	1	0	0	627	0	0	0	0	0	0	0	0

TIME	B to C							TOT	B to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	89	12	2	0	1	0	0	104	0	0	0	0	0	0	0	0
16:15	90	3	0	0	0	0	0	93	0	0	0	0	0	0	0	0
16:30	68	7	1	1	0	0	0	77	0	0	0	0	0	0	0	0
16:45	69	3	0	0	0	0	0	72	0	0	0	0	0	0	0	0
17:00	96	10	0	0	1	0	0	107	0	0	0	0	0	0	0	0
17:15	73	2	1	0	0	0	0	76	0	0	0	0	0	0	0	0
17:30	70	3	0	0	0	0	0	73	0	0	0	0	0	0	0	0
17:45	57	4	0	1	0	0	0	62	0	0	0	0	0	0	0	0
18:00	65	2	0	0	0	0	0	67	0	0	0	0	0	0	0	0
18:15	40	5	0	0	0	0	0	45	0	0	0	0	0	0	0	0
18:30	56	1	0	0	0	0	0	57	0	0	0	0	0	0	0	0
18:45	49	5	0	0	0	1	0	55	0	0	0	0	0	0	0	0
P/TOT	822	57	4	2	2	1	0	888	0	0	0	0	0	0	0	0



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	C to B							TOT	C to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	20	12	1	0	0	0	0	33	61	34	5	4	1	0	0	105
07:15	40	5	2	0	0	0	0	47	94	33	6	1	0	0	0	134
07:30	38	12	0	1	0	0	0	51	98	40	7	6	1	0	0	152
07:45	72	9	0	0	0	0	0	81	101	41	5	1	0	0	0	148
08:00	69	6	3	0	1	0	0	79	72	35	5	6	1	0	0	119
08:15	75	12	2	1	0	0	0	90	67	37	10	0	3	0	0	117
08:30	100	7	3	2	0	0	0	112	69	27	5	4	0	0	0	105
08:45	78	7	2	0	0	0	0	87	58	12	10	2	1	0	0	83
09:00	77	14	1	0	1	0	0	93	65	17	3	3	4	0	0	92
09:15	57	2	2	1	0	0	0	62	56	25	1	6	1	0	0	89
09:30	59	9	3	1	0	2	0	74	57	29	5	5	2	0	0	98
09:45	71	4	3	0	0	0	0	78	47	20	2	2	0	0	0	71
P/TOT	756	99	22	6	2	2	0	887	845	350	64	40	14	0	0	1313

TIME	C to B							TOT	C to A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	53	6	0	0	0	0	0	59	108	29	7	2	0	0	0	146
16:15	57	7	0	1	1	0	0	66	84	28	4	1	0	0	0	117
16:30	50	7	1	1	0	0	0	59	98	26	2	1	0	0	0	127
16:45	61	6	1	0	0	0	0	68	119	27	3	4	0	0	0	153
17:00	55	7	0	0	0	0	0	62	102	10	1	0	0	0	0	113
17:15	61	5	0	0	0	0	0	66	95	25	1	0	0	0	0	121
17:30	63	2	1	0	0	0	0	66	96	21	3	1	0	0	0	121
17:45	56	6	1	0	0	0	0	63	89	12	1	0	1	0	0	103
18:00	59	3	0	0	0	0	0	62	85	12	2	1	1	0	0	101
18:15	62	0	0	0	0	0	0	62	80	10	0	2	0	0	0	92
18:30	52	1	0	1	0	0	0	54	82	3	0	1	0	0	0	86
18:45	41	2	0	0	0	0	0	43	47	4	0	0	0	0	0	51
P/TOT	670	52	4	3	1	0	0	730	1085	207	24	13	2	0	0	1331



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	C to D							TOT	C to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	11	1	0	0	0	0	0	12	0	0	0	0	0	0	0	0
07:15	16	6	0	0	0	0	0	22	0	0	0	0	0	0	0	0
07:30	10	7	1	0	1	0	0	19	0	0	0	0	0	0	0	0
07:45	16	8	0	1	2	0	0	27	0	0	0	0	0	0	0	0
08:00	14	7	0	0	0	0	0	21	0	0	0	0	0	0	0	0
08:15	25	3	3	1	1	0	0	33	0	0	0	0	0	0	0	0
08:30	39	3	1	0	0	0	0	43	0	0	0	0	0	0	0	0
08:45	31	9	0	0	0	0	0	40	0	0	0	0	0	0	0	0
09:00	36	9	1	0	1	0	0	47	0	0	0	0	0	0	0	0
09:15	18	1	0	0	0	0	0	19	0	0	0	0	0	0	0	0
09:30	25	1	0	0	0	0	0	26	0	0	0	0	0	0	0	0
09:45	28	1	0	0	0	0	0	29	0	0	0	0	0	0	0	0
P/TOT	269	56	6	2	5	0	0	338	0	0	0	0	0	0	0	0

TIME	C to D							TOT	C to C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	49	5	0	0	0	0	0	54	0	0	0	0	0	0	0	0
16:15	47	6	0	0	0	0	0	53	0	0	0	0	0	0	0	0
16:30	65	6	1	0	0	0	0	72	0	0	0	0	0	0	0	0
16:45	47	8	0	0	1	0	0	56	0	0	0	0	0	0	0	0
17:00	55	8	0	0	0	0	0	63	0	0	0	0	0	0	0	0
17:15	52	5	1	1	0	0	0	59	0	0	0	0	0	0	0	0
17:30	61	2	0	0	0	0	0	63	0	0	0	0	0	0	0	0
17:45	48	3	1	0	0	0	0	52	0	0	0	0	0	0	0	0
18:00	31	5	0	0	0	0	0	36	0	0	0	0	0	0	0	0
18:15	37	4	0	0	0	0	0	41	0	0	0	0	0	0	0	0
18:30	25	2	0	0	0	0	0	27	0	0	0	0	0	0	0	0
18:45	31	2	0	0	0	0	0	33	0	0	0	0	0	0	0	0
P/TOT	548	56	3	1	1	0	0	609	0	0	0	0	0	0	0	0



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	D to C							TOT	D to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	28	4	1	0	0	0	0	33	20	3	1	0	1	0	0	25
07:15	19	6	0	0	1	0	0	26	25	8	1	0	1	0	0	35
07:30	40	7	0	0	0	0	0	47	34	7	2	0	1	0	0	44
07:45	47	12	2	0	0	0	0	61	66	8	0	0	1	1	0	76
08:00	48	12	0	0	0	1	0	61	70	10	1	0	3	0	0	84
08:15	60	6	0	0	0	0	0	66	64	4	0	0	0	0	0	68
08:30	64	6	1	0	0	0	0	71	61	9	0	0	2	0	0	72
08:45	54	3	1	0	0	0	0	58	78	4	0	0	1	0	0	83
09:00	43	7	0	0	0	0	0	50	47	11	0	0	0	0	0	58
09:15	36	6	2	0	1	3	0	48	56	7	1	0	2	0	0	66
09:30	31	3	1	0	0	0	0	35	65	11	1	0	0	0	0	77
09:45	27	3	0	0	0	0	0	30	56	7	2	0	0	0	0	65
P/TOT	497	75	8	0	2	4	0	586	642	89	9	0	12	1	0	753

TIME	D to C							TOT	D to B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	29	7	1	0	0	0	0	37	66	5	2	0	1	0	0	74
16:15	40	7	0	0	0	0	0	47	53	4	0	0	1	0	0	58
16:30	38	7	0	0	1	0	0	46	63	4	0	0	0	0	0	67
16:45	33	2	0	0	0	0	0	35	67	8	0	0	2	0	0	77
17:00	46	2	1	0	0	0	0	49	53	5	0	0	1	0	0	59
17:15	41	6	0	0	0	0	0	47	66	3	0	0	1	0	0	70
17:30	39	6	0	0	0	0	0	45	48	1	0	1	0	0	0	50
17:45	37	2	0	0	0	0	0	39	42	4	0	0	1	0	0	47
18:00	38	5	0	0	0	0	0	43	50	4	0	0	0	0	0	54
18:15	34	5	0	0	0	0	0	39	39	1	0	0	1	0	0	41
18:30	28	4	0	0	0	0	0	32	48	2	0	0	1	0	0	51
18:45	25	3	0	0	0	0	0	28	45	3	0	0	0	1	0	49
P/TOT	428	56	2	0	1	0	0	487	640	44	2	1	9	1	0	697



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	D to A							TOT	D to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	8	4	1	0	0	0	0	13	0	0	0	0	0	0	0	0
07:15	13	3	0	0	0	0	0	16	0	0	0	0	0	0	0	0
07:30	20	5	1	0	0	0	0	26	0	0	0	0	0	0	0	0
07:45	18	3	1	0	0	0	0	22	0	0	0	0	0	0	0	0
08:00	33	6	0	0	0	0	0	39	0	0	0	0	0	0	0	0
08:15	25	4	0	0	0	0	0	29	0	0	0	0	0	0	0	0
08:30	20	3	1	0	0	0	0	24	0	0	0	0	0	0	0	0
08:45	18	2	0	0	0	0	0	20	0	0	0	0	0	0	0	0
09:00	11	2	1	0	1	0	0	15	0	0	0	0	0	0	0	0
09:15	13	4	1	0	0	0	0	18	0	0	0	0	0	0	0	0
09:30	11	8	1	0	0	0	0	20	0	0	0	0	0	0	0	0
09:45	10	2	0	0	0	0	0	12	0	0	0	0	0	0	0	0
P/TOT	200	46	7	0	1	0	0	254	0	0	0	0	0	0	0	0

TIME	D to A							TOT	D to D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	19	8	1	0	1	0	0	29	0	0	0	0	0	0	0	0
16:15	19	2	0	0	0	0	0	21	0	0	0	0	0	0	0	0
16:30	37	9	0	0	0	0	0	46	0	0	0	0	0	0	0	0
16:45	26	4	0	0	0	0	0	30	0	0	0	0	0	0	0	0
17:00	25	2	0	0	0	0	0	27	0	0	0	0	0	0	0	0
17:15	30	1	2	1	0	0	0	34	0	0	0	0	0	0	0	0
17:30	22	1	0	0	0	1	0	24	0	0	0	0	0	0	0	0
17:45	16	1	0	0	0	0	0	17	0	0	0	0	0	0	0	0
18:00	17	3	0	0	0	0	0	20	0	0	0	0	0	0	0	0
18:15	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
18:30	13	2	0	0	0	0	0	15	0	0	0	0	0	0	0	0
18:45	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
P/TOT	240	33	3	1	1	1	0	279	0	0	0	0	0	0	0	0



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	TO ARM A							TOT	FROM ARM A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	97	55	8	4	1	0	0	165	90	18	3	3	2	0	0	116
07:15	140	52	6	1	1	0	0	200	118	34	6	3	1	0	0	162
07:30	140	55	9	6	1	0	0	211	117	41	7	1	1	0	0	167
07:45	149	54	6	1	2	1	0	213	176	40	7	9	1	0	0	233
08:00	141	46	6	6	3	0	0	202	168	34	8	3	1	0	0	214
08:15	127	51	15	0	3	0	0	196	193	37	6	5	1	1	0	243
08:30	121	40	6	4	0	0	0	171	228	31	10	5	1	0	0	275
08:45	115	25	10	2	2	0	0	154	190	28	5	6	1	1	0	231
09:00	129	31	6	3	5	0	0	174	188	34	11	6	3	0	0	242
09:15	95	38	3	6	3	0	0	145	159	24	6	4	0	1	0	194
09:30	101	46	7	5	2	0	0	161	157	30	3	2	2	1	0	195
09:45	96	27	5	3	0	0	0	131	147	22	7	4	2	0	0	182
P/TOT	1451	520	87	41	23	1	0	2123	1931	373	79	51	16	4	0	2454

TIME	TO ARM A							TOT	FROM ARM A							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	220	47	8	2	1	0	0	278	192	45	4	0	2	0	0	243
16:15	200	46	4	1	2	0	0	253	175	42	4	2	0	0	0	223
16:30	209	45	3	1	0	0	0	258	215	27	5	1	1	0	0	249
16:45	240	36	3	5	0	0	0	284	189	36	0	2	1	0	0	228
17:00	198	22	2	0	0	0	0	222	209	39	3	1	1	0	0	253
17:15	197	32	3	2	1	0	0	235	170	34	1	2	1	1	0	209
17:30	178	26	3	1	0	1	0	209	168	25	3	0	0	0	0	196
17:45	172	18	1	0	1	0	0	192	140	22	2	0	1	0	0	165
18:00	175	24	2	1	1	0	0	203	147	20	0	1	0	1	0	169
18:15	142	14	0	2	1	0	0	159	134	12	0	1	0	0	0	147
18:30	157	12	0	1	0	0	0	170	107	15	1	3	0	0	0	126
18:45	109	9	0	0	0	0	0	118	90	14	1	0	1	0	0	106
P/TOT	2197	331	29	16	7	1	0	2581	1936	331	24	13	8	2	0	2314



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	TO ARM B							TOT	FROM ARM B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	61	16	2	0	1	0	0	80	74	38	4	0	0	0	0	116
07:15	90	20	4	0	1	0	0	115	81	24	2	0	1	0	0	108
07:30	88	24	2	1	1	0	0	116	91	26	2	0	0	0	0	119
07:45	194	27	0	1	2	1	0	225	92	23	0	1	4	1	0	121
08:00	174	29	6	0	4	0	0	213	114	20	1	0	3	0	0	138
08:15	191	26	4	2	0	0	0	223	118	29	7	0	2	0	0	156
08:30	247	24	4	2	3	0	0	280	134	20	4	1	0	0	0	159
08:45	235	22	4	0	1	0	0	262	116	26	0	1	2	0	0	145
09:00	207	33	2	0	3	0	0	245	161	30	3	0	1	0	0	195
09:15	177	15	4	2	2	1	0	201	113	22	4	0	3	3	0	145
09:30	189	28	5	1	0	3	0	226	114	26	4	0	1	1	0	146
09:45	189	17	7	0	0	0	0	213	143	19	6	2	1	0	0	171
P/TOT	2042	281	44	9	18	5	0	2399	1351	303	37	5	18	5	0	1719

TIME	TO ARM B							TOT	FROM ARM B							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	165	22	2	0	2	0	0	191	273	30	2	0	2	0	0	307
16:15	170	23	1	1	2	0	0	197	258	31	0	0	2	0	0	291
16:30	182	17	2	1	0	0	0	202	208	20	3	1	3	0	0	235
16:45	210	21	1	0	3	0	0	235	242	15	1	1	0	0	0	259
17:00	176	26	1	0	2	0	0	205	258	29	2	0	2	0	0	291
17:15	203	17	0	0	2	0	0	222	212	16	1	1	1	0	0	231
17:30	176	13	2	1	0	0	0	192	184	15	0	0	2	0	0	201
17:45	158	16	2	0	2	0	0	178	180	17	0	1	0	0	0	198
18:00	169	20	0	0	0	1	0	190	201	13	0	0	1	0	0	215
18:15	161	6	0	0	1	0	0	168	151	13	0	0	1	0	0	165
18:30	148	8	1	1	1	0	0	159	169	8	0	0	1	0	0	178
18:45	123	8	0	0	1	1	0	133	143	10	0	0	1	1	0	155
P/TOT	2041	197	12	4	16	2	0	2272	2479	217	9	4	16	1	0	2726



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	TO ARM C							TOT	FROM ARM C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	127	36	5	3	1	0	0	172	92	47	6	4	1	0	0	150
07:15	137	34	5	3	2	0	0	181	150	44	8	1	0	0	0	203
07:30	183	47	8	1	1	0	0	240	146	59	8	7	2	0	0	222
07:45	195	47	8	9	0	0	0	259	189	58	5	2	2	0	0	256
08:00	215	37	4	3	1	1	0	261	155	48	8	6	2	0	0	219
08:15	231	41	5	4	1	1	0	283	167	52	15	2	4	0	0	240
08:30	242	29	10	6	0	0	0	287	208	37	9	6	0	0	0	260
08:45	185	26	4	7	2	1	0	225	167	28	12	2	1	0	0	210
09:00	178	40	11	6	1	0	0	236	178	40	5	3	6	0	0	232
09:15	164	25	8	3	1	3	0	204	131	28	3	7	1	0	0	170
09:30	137	33	5	2	2	0	0	179	141	39	8	6	2	2	0	198
09:45	135	23	6	5	2	0	0	171	146	25	5	2	0	0	0	178
P/TOT	2129	418	79	52	14	6	0	2698	1870	505	92	48	21	2	0	2538

TIME	TO ARM C							TOT	FROM ARM C							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	236	46	6	0	2	0	0	290	210	40	7	2	0	0	0	259
16:15	220	34	2	2	0	0	0	258	188	41	4	2	1	0	0	236
16:30	226	34	5	2	2	0	0	269	213	39	4	2	0	0	0	258
16:45	188	23	0	2	0	0	0	213	227	41	4	4	1	0	0	277
17:00	256	31	3	1	1	0	0	292	212	25	1	0	0	0	0	238
17:15	193	29	2	2	0	1	0	227	208	35	2	1	0	0	0	246
17:30	195	21	2	0	0	0	0	218	220	25	4	1	0	0	0	250
17:45	160	15	1	1	0	0	0	177	193	21	3	0	1	0	0	218
18:00	177	12	0	1	0	0	0	190	175	20	2	1	1	0	0	199
18:15	141	15	0	1	0	0	0	157	179	14	0	2	0	0	0	195
18:30	133	14	0	3	0	0	0	150	159	6	0	2	0	0	0	167
18:45	121	18	1	0	0	1	0	141	119	8	0	0	0	0	0	127
P/TOT	2246	292	22	15	5	2	0	2582	2303	315	31	17	4	0	0	2670



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	TO ARM D							TOT	FROM ARM D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	27	7	1	0	1	0	0	36	56	11	3	0	1	0	0	71
07:15	39	13	2	0	0	0	0	54	57	17	1	0	2	0	0	77
07:30	37	19	1	0	1	0	0	58	94	19	3	0	1	0	0	117
07:45	50	16	1	1	4	0	0	72	131	23	3	0	1	1	0	159
08:00	58	18	2	0	1	0	0	79	151	28	1	0	3	1	0	184
08:15	78	14	4	1	3	0	0	100	149	14	0	0	0	0	0	163
08:30	105	13	5	0	0	0	0	123	145	18	2	0	2	0	0	167
08:45	88	18	0	0	0	0	0	106	150	9	1	0	1	0	0	161
09:00	114	20	1	0	2	0	0	137	101	20	1	0	1	0	0	123
09:15	72	13	2	0	1	3	0	91	105	17	4	0	3	3	0	132
09:30	92	10	1	0	1	1	0	105	107	22	3	0	0	0	0	132
09:45	109	11	2	0	1	0	0	123	93	12	2	0	0	0	0	107
P/TOT	869	172	22	2	15	4	0	1084	1339	210	24	0	15	5	0	1593

TIME	TO ARM D							TOT	FROM ARM D							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL		CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	168	20	1	0	1	0	0	190	114	20	4	0	2	0	0	140
16:15	143	24	1	0	0	0	0	168	112	13	0	0	1	0	0	126
16:30	157	10	2	0	3	0	0	172	138	20	0	0	1	0	0	159
16:45	146	26	1	0	1	0	0	174	126	14	0	0	2	0	0	142
17:00	173	23	1	0	1	0	0	198	124	9	1	0	1	0	0	135
17:15	134	17	1	1	0	0	0	153	137	10	2	1	1	0	0	151
17:30	132	13	0	0	2	0	0	147	109	8	0	1	0	1	0	119
17:45	118	18	1	0	0	0	0	137	95	7	0	0	1	0	0	103
18:00	107	9	0	0	1	0	0	117	105	12	0	0	0	0	0	117
18:15	101	10	0	0	0	0	0	111	81	6	0	0	1	0	0	88
18:30	86	3	0	0	1	0	0	90	89	8	0	0	1	0	0	98
18:45	77	3	0	0	1	0	0	81	78	6	0	0	0	1	0	85
P/TOT	1542	176	8	1	11	0	0	1738	1308	133	7	2	11	2	0	1463



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
CLASSIFIED TURNING COUNT

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

TIME	JUNCTION TOTAL							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
07:00	312	114	16	7	4	0	0	453
07:15	406	119	17	4	4	0	0	550
07:30	448	145	20	8	4	0	0	625
07:45	588	144	15	12	8	2	0	769
08:00	588	130	18	9	9	1	0	755
08:15	627	132	28	7	7	1	0	802
08:30	715	106	25	12	3	0	0	861
08:45	623	91	18	9	5	1	0	747
09:00	628	124	20	9	11	0	0	792
09:15	508	91	17	11	7	7	0	641
09:30	519	117	18	8	5	4	0	671
09:45	529	78	20	8	3	0	0	638
P/TOT	6491	1391	232	104	70	16	0	8304

PEAK HOUR CALCULATION	
07:00 to 08:00	2397
07:15 to 08:15	2699
07:30 to 08:30	2951
07:45 to 08:45	3187
08:00 to 09:00	3165
08:15 to 09:15	3202
08:30 to 09:30	3041
08:45 to 09:45	2851
09:00 to 10:00	2742
PEAK VALUE	3202

TIME	JUNCTION TOTAL							TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL	PCL	
16:00	789	135	17	2	6	0	0	949
16:15	733	127	8	4	4	0	0	876
16:30	774	106	12	4	5	0	0	901
16:45	784	106	5	7	4	0	0	906
17:00	803	102	7	1	4	0	0	917
17:15	727	95	6	5	3	1	0	837
17:30	681	73	7	2	2	1	0	766
17:45	608	67	5	1	3	0	0	684
18:00	628	65	2	2	2	1	0	700
18:15	545	45	0	3	2	0	0	595
18:30	524	37	1	5	2	0	0	569
18:45	430	38	1	0	2	2	0	473
P/TOT	8026	996	71	36	39	5	0	9173

PEAK HOUR CALCULATION	
16:00 to 17:00	3632
16:15 to 17:15	3600
16:30 to 17:30	3561
16:45 to 17:45	3426
17:00 to 18:00	3204
17:15 to 18:15	2987
17:30 to 18:30	2745
17:45 to 18:45	2548
18:00 to 19:00	2337
PEAK VALUE	3632



APPENDIX C

Queue Length Data



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
QUEUE LENGTH SURVEY

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
 Lane numbering is outwards from the kerb in the direction of travel.
 When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

	ARM A	ARM B			ARM C	ARM D	
TIME	LANE 1	LANE 1	LANE 2	LANE 3	LANE 1	LANE 1	LANE 2
10:00	0	0	0	0	1	0	0
10:05	0	0	0	0	0	0	0
10:10	0	0	0	0	0	0	0
10:15	0	0	0	0	0	0	0
10:20	1	0	0	0	0	0	0
10:25	1	0	0	0	0	1	1
10:30	0	0	0	0	1	0	0
10:35	0	0	0	0	1	0	0
10:40	0	0	0	0	0	0	0
10:45	2	0	2	0	0	0	0
10:50	1	0	0	0	0	0	0
10:55	0	0	0	3	0	0	2
11:00	0	0	0	0	1	0	0
11:05	0	0	0	0	0	0	0
11:10	1	0	4	2	3	0	0
11:15	1	0	0	0	1	0	0
11:20	0	0	0	0	0	1	0
11:25	4	1	0	0	0	0	3
11:30	0	0	0	0	0	0	0
11:35	0	0	0	0	0	0	0
11:40	1	0	0	0	0	0	0
11:45	0	0	0	0	0	0	1
11:50	0	0	0	0	0	0	0
11:55	1	0	0	0	0	1	1
12:00	2	0	1	2	16	0	0
12:05	2	0	0	0	0	0	0
12:10	2	4	2	3	0	0	5
12:15	0	7	0	0	1	0	4
12:20	0	0	0	0	0	0	0
12:25	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0
12:35	1	1	0	0	0	0	0
12:40	1	14	0	8	1	0	0
12:45	1	0	0	0	0	0	0
12:50	1	5	1	0	0	0	12
12:55	2	10	1	0	0	0	13
13:00	4	0	3	1	3	2	15



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
QUEUE LENGTH SURVEY

SITE: 1

DATE: 07/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Saturday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

	ARM A	ARM B			ARM C	ARM D	
TIME	LANE 1	LANE 1	LANE 2	LANE 3	LANE 1	LANE 1	LANE 2
13:05	4	2	0	0	0	0	7
13:10	2	0	1	0	0	0	6
13:15	1	0	0	0	0	0	15
13:20	0	5	1	0	3	0	0
13:25	2	4	1	0	0	1	7
13:30	6	5	1	4	0	0	0
13:35	3	0	0	0	6	0	8
13:40	3	4	0	0	0	1	16
13:45	2	6	0	4	0	0	12
13:50	1	2	0	0	8	1	14
13:55	4	6	2	0	0	0	13
14:00	3	2	0	0	0	10	16
14:05	1	0	2	0	0	0	13
14:10	2	3	2	0	0	0	19
14:15	3	0	3	1	3	0	0
14:20	0	0	1	0	1	0	0
14:25	4	0	0	0	0	0	10
14:30	1	0	0	0	0	0	0
14:35	3	3	1	0	1	0	0
14:40	0	0	0	0	0	0	0
14:45	0	0	0	0	0	0	0
14:50	0	0	0	0	0	0	0
14:55	0	0	2	1	1	0	0
15:00	0	0	0	0	5	0	0
15:05	0	0	0	0	0	0	0
15:10	0	0	0	0	7	0	0
15:15	1	1	0	0	4	0	0
15:20	0	0	0	0	0	0	0
15:25	0	1	0	2	7	1	1
15:30	0	0	0	0	0	0	0
15:35	1	0	2	1	0	0	0
15:40	0	0	0	0	0	1	2
15:45	1	0	0	0	0	0	0
15:50	0	0	0	0	0	0	0
15:55	0	0	0	0	0	0	0
16:00	0	0	0	0	2	0	0
MAX QUEUE	6	14	4	8	16	10	19



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
QUEUE LENGTH SURVEY

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

	ARM A	ARM B			ARM C	ARM D	
TIME	LANE 1	LANE 1	LANE 2	LANE 3	LANE 1	LANE 1	LANE 2
07:00	0	0	0	0	0	0	2
07:05	0	0	0	0	0	0	0
07:10	0	0	0	0	0	0	0
07:15	0	0	0	0	2	0	0
07:20	0	0	0	0	0	0	0
07:25	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0
07:35	0	0	0	0	1	0	0
07:40	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0
07:50	0	0	0	0	0	0	0
07:55	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0
08:05	0	0	0	0	0	0	0
08:10	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0
08:20	0	0	0	0	4	0	0
08:25	0	0	0	1	0	0	0
08:30	1	0	0	0	0	0	0
08:35	0	0	0	0	0	0	0
08:40	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	3
08:50	0	0	1	0	0	0	0
08:55	0	0	2	0	3	0	0
09:00	3	0	0	0	0	0	0
09:05	0	0	0	0	9	0	0
09:10	0	1	0	0	3	0	0
09:15	0	0	0	0	0	0	8
09:20	0	0	0	0	0	0	0
09:25	0	0	0	0	0	0	0
09:30	0	0	0	0	0	0	0
09:35	0	0	0	0	0	0	2
09:40	0	0	0	0	0	0	0
09:45	0	0	0	0	0	0	4
09:50	0	0	0	0	2	0	2
09:55	0	2	0	0	0	0	0
10:00	0	0	0	1	0	0	0
MAX QUEUE	3	2	2	1	9	0	8



17816 / CYFARTHFA RETAIL PARK
FEBRUARY 2026
QUEUE LENGTH SURVEY

SITE: 1

DATE: 10/02/2026

LOCATION: Swansea Road / Retail Park Access

DAY: Tuesday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

	ARM A	ARM B			ARM C	ARM D	
TIME	LANE 1	LANE 1	LANE 2	LANE 3	LANE 1	LANE 1	LANE 2
16:00	0	0	0	0	0	0	0
16:05	0	6	0	0	17	0	0
16:10	0	0	0	0	18	0	0
16:15	0	9	1	2	2	0	0
16:20	0	0	0	0	21	0	0
16:25	0	0	0	0	4	0	3
16:30	0	0	0	0	0	0	0
16:35	2	2	0	0	0	0	0
16:40	0	0	0	0	6	2	0
16:45	0	0	0	0	1	0	0
16:50	2	6	0	0	0	0	0
16:55	1	0	0	0	8	0	0
17:00	2	3	0	0	2	0	0
17:05	0	6	0	0	0	0	0
17:10	0	0	0	0	2	0	0
17:15	0	1	0	0	2	0	0
17:20	0	0	0	2	0	0	0
17:25	0	1	0	3	0	0	0
17:30	0	0	0	0	0	0	0
17:35	0	1	0	1	0	0	0
17:40	0	4	0	0	2	0	0
17:45	0	0	0	0	2	0	0
17:50	1	0	0	0	3	0	0
17:55	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0
18:05	0	0	0	0	0	0	0
18:10	0	2	0	0	0	0	0
18:15	0	0	0	0	0	0	1
18:20	0	0	0	0	0	0	0
18:25	0	1	1	0	0	0	1
18:30	0	0	0	0	0	0	0
18:35	0	0	1	0	6	0	0
18:40	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	2
18:50	0	0	0	0	0	0	0
18:55	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0
MAX QUEUE	2	9	1	3	21	2	3

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

TIME	ARM B			ARM D		
	LANE 1	LANE 2	LANE 3	LANE 1	LANE 2	LANE 3
10:00	0	0	1	0	0	0
10:05	0	0	0	0	0	0
10:10	0	0	0	0	0	0
10:15	2	2	0	0	0	0
10:20	0	0	3	0	0	0
10:25	0	0	3	1	2	1
10:30	2	0	0	0	2	0
10:35	0	0	0	0	0	0
10:40	0	0	0	0	0	1
10:45	0	0	0	2	0	1
10:50	0	0	0	0	1	0
10:55	0	0	2	2	3	2
11:00	0	0	0	1	0	0
11:05	1	0	0	2	2	1
11:10	0	0	10	0	0	0
11:15	0	0	6	0	1	0
11:20	0	1	0	0	0	0
11:25	4	0	2	0	2	0
11:30	0	0	0	0	2	1
11:35	4	2	2	0	1	1
11:40	0	3	2	2	2	1
11:45	2	1	0	1	0	0
11:50	0	0	0	0	1	1
11:55	0	0	0	1	2	2
12:00	2	0	2	0	0	1
12:05	0	1	1	0	1	1
12:10	0	0	0	0	0	2
12:15	0	1	0	0	0	4
12:20	2	0	0	0	0	0
12:25	0	0	5	0	0	0
12:30	0	0	0	2	1	1
12:35	0	0	0	0	0	0
12:40	5	0	4	0	4	0
12:45	0	0	0	0	0	0
12:50	0	0	11	0	0	0
12:55	1	0	6	0	0	0
13:00	0	0	1	0	0	0
13:05	2	0	0	1	2	0
13:10	0	0	0	1	1	7
13:15	0	0	0	0	1	3
13:20	2	0	4	2	1	1
13:25	0	0	0	2	0	2
13:30	1	0	8	0	0	0
13:35	0	0	11	0	0	0
13:40	0	0	0	0	0	0

SITE: 2

DATE: 07/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Saturday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

TIME	ARM B			ARM D		
	LANE 1	LANE 2	LANE 3	LANE 1	LANE 2	LANE 3
13:45	0	1	0	3	1	2
13:50	3	1	0	0	0	0
13:55	4	1	6	0	0	0
14:00	2	0	0	1	2	6
14:05	5	0	2	0	0	0
14:10	1	0	0	1	2	2
14:15	1	0	12	0	2	0
14:20	0	0	0	0	0	0
14:25	0	0	0	0	0	0
14:30	0	0	1	0	2	1
14:35	0	0	0	0	0	0
14:40	0	0	0	2	1	1
14:45	0	0	0	0	2	0
14:50	0	1	0	2	2	1
14:55	0	0	2	1	0	1
15:00	2	1	6	2	0	3
15:05	0	0	0	0	0	0
15:10	0	0	0	0	0	0
15:15	1	2	0	0	0	1
15:20	0	2	1	0	0	0
15:25	0	0	0	0	1	1
15:30	0	0	0	0	0	0
15:35	0	0	0	0	0	0
15:40	0	0	0	2	0	1
15:45	0	0	0	2	3	0
15:50	1	2	0	0	0	0
15:55	0	0	0	0	1	0
16:00	0	0	3	1	1	1
MAX QUEUE	5	3	12	3	4	7

SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

TIME	ARM B			ARM D		
	LANE 1	LANE 2	LANE 3	LANE 1	LANE 2	LANE 3
07:00	0	0	0	0	0	0
07:05	0	0	0	0	0	0
07:10	2	0	0	0	0	0
07:15	0	0	0	0	0	0
07:20	0	0	0	0	0	0
07:25	0	0	0	0	1	0
07:30	0	0	0	0	0	0
07:35	1	0	0	0	0	0
07:40	0	0	1	0	0	0
07:45	0	0	0	0	0	0
07:50	0	0	0	2	0	5
07:55	1	0	1	2	2	1
08:00	0	1	0	0	0	0
08:05	0	0	0	0	0	3
08:10	0	0	0	0	0	0
08:15	1	2	1	0	0	0
08:20	0	0	1	0	2	1
08:25	1	4	1	1	0	0
08:30	0	0	0	1	1	1
08:35	0	0	2	0	0	0
08:40	0	0	0	0	0	0
08:45	0	0	0	0	3	0
08:50	0	0	0	0	0	0
08:55	0	2	0	0	0	0
09:00	0	0	0	0	0	0
09:05	0	1	0	1	0	0
09:10	0	2	2	0	1	0
09:15	0	1	1	1	0	0
09:20	0	4	0	0	1	0
09:25	0	0	0	0	0	0
09:30	0	0	0	0	1	0
09:35	0	0	0	0	0	0
09:40	0	1	1	0	0	0
09:45	0	0	0	0	0	0
09:50	0	0	0	0	0	0
09:55	0	3	0	0	1	0
10:00	0	0	0	0	1	0
MAX QUEUE	2	4	2	2	3	5



SITE: 2

DATE: 10/02/2026

LOCATION: Gellideg Roundabout - A470 / Swansea Road

DAY: Tuesday

Notes: All queues are measured in vehicle numbers on the 5-minute interval.
Lane numbering is outwards from the kerb in the direction of travel.
When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

	ARM A			ARM B		
TIME	LANE 1	LANE 2	LANE 3	LANE 1	LANE 2	LANE 3
16:00	0	0	1	0	0	0
16:05	0	2	0	0	0	0
16:10	3	1	2	0	0	3
16:15	3	2	1	0	0	0
16:20	0	0	0	0	0	0
16:25	0	2	2	0	1	1
16:30	3	3	7	2	0	0
16:35	2	1	0	0	0	0
16:40	0	0	0	0	1	0
16:45	0	0	0	2	0	1
16:50	0	2	2	0	2	2
16:55	2	0	6	0	0	0
17:00	0	2	8	0	1	0
17:05	0	0	0	0	2	2
17:10	1	1	3	0	0	1
17:15	2	1	1	0	0	0
17:20	0	1	2	0	0	0
17:25	0	1	0	0	0	0
17:30	0	0	2	0	0	1
17:35	1	1	2	0	5	0
17:40	2	0	2	0	0	0
17:45	0	0	0	2	0	0
17:50	0	1	2	0	0	0
17:55	0	0	0	0	0	0
18:00	0	0	0	1	0	0
18:05	0	0	0	0	0	0
18:10	0	0	4	0	1	1
18:15	0	0	0	0	0	0
18:20	0	0	0	0	0	0
18:25	0	0	0	1	0	0
18:30	0	0	0	0	1	0
18:35	0	0	0	0	0	0
18:40	1	0	2	0	1	0
18:45	0	1	0	0	0	0
18:50	0	1	0	0	0	1
18:55	0	1	1	0	0	0
19:00	0	0	0	0	0	0
MAX QUEUE	3	3	8	2	5	3



APPENDIX D

Parking Accumulation Data



SITE: 3

DATE: 07/02/2026

LOCATION: Main Car Park

DAY: Saturday

TIME	ENTRY						TOT	EXIT						TOT	ACCUMULATION						TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL	
10:00	33	4	0	0	0	0	37	24	3	0	0	0	0	27	48	4	0	0	0	0	52
10:15	33	8	0	0	0	0	41	22	3	0	0	0	0	25	59	9	0	0	0	0	68
10:30	36	13	0	0	0	0	49	33	6	0	0	0	0	39	62	16	0	0	0	0	78
10:45	42	3	0	0	0	0	45	36	13	0	0	0	0	49	68	6	0	0	0	0	74
H/TOT	144	28	0	0	0	0	172	115	25	0	0	0	0	140							
11:00	46	7	1	0	0	0	54	42	5	0	0	0	0	47	72	8	1	0	0	0	81
11:15	50	4	1	0	0	0	55	40	1	1	0	0	0	42	82	11	1	0	0	0	94
11:30	46	3	0	0	0	0	49	48	8	1	0	0	0	57	80	6	0	0	0	0	86
11:45	33	4	0	0	0	0	37	40	2	0	0	0	0	42	73	8	0	0	0	0	81
H/TOT	175	18	2	0	0	0	195	170	16	2	0	0	0	188							
12:00	40	6	0	0	0	0	46	49	5	0	0	0	0	54	64	9	0	0	0	0	73
12:15	44	6	0	0	0	0	50	37	6	0	0	0	0	43	71	9	0	0	0	0	80
12:30	44	5	0	0	0	0	49	49	8	0	0	0	0	57	66	6	0	0	0	0	72
12:45	32	4	0	0	0	0	36	37	2	0	0	0	0	39	61	8	0	0	0	0	69
H/TOT	160	21	0	0	0	0	181	172	21	0	0	0	0	193							
13:00	43	2	0	0	0	0	45	37	3	0	0	0	0	40	67	7	0	0	0	0	74
13:15	49	8	0	0	0	0	57	41	5	0	0	0	0	46	75	10	0	0	0	0	85
13:30	51	3	0	0	0	0	54	43	6	0	0	0	0	49	83	7	0	0	0	0	90
13:45	40	2	0	0	0	0	42	44	4	0	0	0	0	48	79	5	0	0	0	0	84
H/TOT	183	15	0	0	0	0	198	165	18	0	0	0	0	183							
14:00	46	2	0	0	0	0	48	44	2	0	0	0	0	46	81	5	0	0	0	0	86
14:15	41	1	0	0	0	0	42	45	3	0	0	0	0	48	77	3	0	0	0	0	80
14:30	44	1	0	0	0	0	45	50	1	0	0	0	0	51	71	3	0	0	0	0	74
14:45	41	4	0	0	0	0	45	43	1	0	0	0	0	44	69	6	0	0	0	0	75
H/TOT	172	8	0	0	0	0	180	182	7	0	0	0	0	189							
15:00	41	0	0	0	0	0	41	38	3	0	0	0	0	41	72	3	0	0	0	0	75
15:15	36	2	0	0	0	0	38	45	0	0	0	0	0	45	63	5	0	0	0	0	68
15:30	30	2	0	0	0	0	32	38	2	0	0	0	0	40	55	5	0	0	0	0	60
15:45	42	1	0	0	0	0	43	29	3	0	0	0	0	32	68	3	0	0	0	0	71
H/TOT	149	5	0	0	0	0	154	150	8	0	0	0	0	158							
P/TOT	983	95	2	0	0	0	1080	954	95	2	0	0	0	1051							

Vehicles parked at 10:00

CAR	LGV	OGV1	OGV2	PSV	MCL
39	3	0	0	0	0

Vehicles parked at 16:00

CAR	LGV	OGV1	OGV2	PSV	MCL
68	3	0	0	0	0

Peak Accumulation **94**
Capacity 221
% of capacity 42.5%



SITE: 4

DATE: 07/02/2026

LOCATION: Side Car Park

DAY: Saturday

TIME	ENTRY						TOT	EXIT						TOT	ACCUMULATION						TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL	
10:00	2	2	0	0	0	0	4	0	0	0	0	0	0	0	6	3	0	0	0	0	9
10:15	1	0	0	0	0	0	1	2	1	0	0	0	0	3	5	2	0	0	0	0	7
10:30	1	0	0	0	0	0	1	1	1	0	0	0	0	2	5	1	0	0	0	0	6
10:45	1	0	0	0	0	0	1	1	0	0	0	0	0	1	5	1	0	0	0	0	6
H/TOT	5	2	0	0	0	0	7	4	2	0	0	0	0	6							
11:00	3	0	0	0	0	0	3	3	0	0	0	0	0	3	5	1	0	0	0	0	6
11:15	4	0	0	0	0	0	4	2	0	0	0	0	0	2	7	1	0	0	0	0	8
11:30	4	0	0	0	0	0	4	2	1	0	0	0	0	3	9	0	0	0	0	0	9
11:45	2	0	0	0	0	0	2	4	0	0	0	0	0	4	7	0	0	0	0	0	7
H/TOT	13	0	0	0	0	0	13	11	1	0	0	0	0	12							
12:00	6	0	0	0	0	0	6	2	0	0	0	0	0	2	11	0	0	0	0	0	11
12:15	6	0	0	0	0	0	6	2	0	0	0	0	0	2	15	0	0	0	0	0	15
12:30	4	0	0	0	0	0	4	5	0	0	0	0	0	5	14	0	0	0	0	0	14
12:45	10	0	0	0	0	0	10	5	0	0	0	0	0	5	19	0	0	0	0	0	19
H/TOT	26	0	0	0	0	0	26	14	0	0	0	0	0	14							
13:00	5	0	0	0	0	0	5	7	0	0	0	0	0	7	17	0	0	0	0	0	17
13:15	10	2	0	0	0	0	12	6	1	0	0	0	0	7	21	1	0	0	0	0	22
13:30	7	1	0	0	0	0	8	7	1	0	0	0	0	8	21	1	0	0	0	0	22
13:45	5	0	0	0	0	0	5	3	0	0	0	0	0	3	23	1	0	0	0	0	24
H/TOT	27	3	0	0	0	0	30	23	2	0	0	0	0	25							
14:00	2	0	0	0	0	0	2	5	0	0	0	0	0	5	20	1	0	0	0	0	21
14:15	3	0	0	0	0	0	3	6	0	0	0	0	0	6	17	1	0	0	0	0	18
14:30	4	1	0	0	0	0	5	3	0	0	0	0	0	3	18	2	0	0	0	0	20
14:45	2	0	0	0	0	0	2	6	2	0	0	0	0	8	14	0	0	0	0	0	14
H/TOT	11	1	0	0	0	0	12	20	2	0	0	0	0	22							
15:00	6	0	0	0	0	0	6	6	0	0	0	0	0	6	14	0	0	0	0	0	14
15:15	4	0	0	0	0	0	4	6	0	0	0	0	0	6	12	0	0	0	0	0	12
15:30	1	0	0	0	0	0	1	1	0	0	0	0	0	1	12	0	0	0	0	0	12
15:45	4	1	0	0	0	0	5	6	1	0	0	0	0	7	10	0	0	0	0	0	10
H/TOT	15	1	0	0	0	0	16	19	1	0	0	0	0	20							
P/TOT	97	7	0	0	0	0	104	91	8	0	0	0	0	99							

Vehicles parked at 10:00

CAR	LGV	OGV1	OGV2	PSV	MCL
4	1	0	0	0	0

Vehicles parked at 16:00

CAR	LGV	OGV1	OGV2	PSV	MCL
10	0	0	0	0	0

Peak Accumulation 24
Capacity 90
% of capacity 26.7%



SITE: 3

DATE: 10/02/2026

LOCATION: Main Car Park

DAY: Tuesday

TIME	ENTRY						TOT	EXIT						TOT	ACCUMULATION						TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL	
07:00	4	1	0	0	0	0	5	1	2	0	0	0	0	3	10	1	0	0	0	0	11
07:15	3	3	0	0	0	0	6	2	2	0	0	0	0	4	11	2	0	0	0	0	13
07:30	4	2	0	1	0	0	7	4	2	0	0	0	0	6	11	2	0	1	0	0	14
07:45	3	4	0	0	0	0	7	3	4	0	0	0	0	7	11	2	0	1	0	0	14
H/TOT	14	10	0	1	0	0	25	10	10	0	0	0	0	20							
08:00	9	4	0	0	0	0	13	3	2	0	0	0	0	5	17	4	0	1	0	0	22
08:15	6	5	0	0	0	0	11	8	2	0	0	0	0	10	15	7	0	1	0	0	23
08:30	13	7	0	0	0	0	20	6	4	0	0	0	0	10	22	10	0	1	0	0	33
08:45	16	2	0	0	0	0	18	10	7	0	0	0	0	17	28	5	0	1	0	0	34
H/TOT	44	18	0	0	0	0	62	27	15	0	0	0	0	42							
09:00	21	7	0	0	0	0	28	13	6	0	0	0	0	19	36	6	0	1	0	0	43
09:15	22	5	1	0	0	0	28	15	6	0	0	0	0	21	43	5	1	1	0	0	50
09:30	21	8	0	1	0	0	30	14	4	1	0	0	0	19	50	9	0	2	0	0	61
09:45	23	2	0	0	0	0	25	23	5	0	0	0	0	28	50	6	0	2	0	0	58
H/TOT	87	22	1	1	0	0	111	65	21	1	0	0	0	87							
H/TOT	145	50	1	2	0	0	198	102	46	1	0	0	0	149							

Vehicles parked at 07:00

CAR	LGV	OGV1	OGV2	PSV	MCL
7	2	0	0	0	0

Vehicles parked at 10:00

CAR	LGV	OGV1	OGV2	PSV	MCL
50	6	0	2	0	0

Peak Accumulation **61**
Capacity 221
% of capacity 27.6%

TIME	ENTRY						TOT	EXIT						TOT	ACCUMULATION						TOT
	CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL	
16:00	15	4	0	0	0	0	19	29	8	0	0	0	0	37	42	5	1	0	0	0	48
16:15	28	2	1	0	0	0	31	25	4	0	0	0	0	29	45	3	2	0	0	0	50
16:30	20	3	0	0	0	0	23	28	2	1	0	0	0	31	37	4	1	0	0	0	42
16:45	19	3	0	0	0	0	22	21	4	0	0	0	0	25	35	3	1	0	0	0	39
H/TOT	82	12	1	0	0	0	95	103	18	1	0	0	0	122							
17:00	23	5	0	0	0	0	28	15	5	0	0	0	0	20	43	3	1	0	0	0	47
17:15	16	4	0	0	0	0	20	22	3	0	0	0	0	25	37	4	1	0	0	0	42
17:30	25	0	0	0	0	0	25	18	2	0	0	0	0	20	44	2	1	0	0	0	47
17:45	15	1	0	0	0	0	16	23	1	0	0	0	0	24	36	2	1	0	0	0	39
H/TOT	79	10	0	0	0	0	89	78	11	0	0	0	0	89							
18:00	15	2	0	0	0	0	17	22	1	0	0	0	0	23	29	3	1	0	0	0	33
18:15	15	1	1	0	0	0	17	15	2	0	0	0	0	17	29	2	2	0	0	0	33
18:30	12	5	0	0	0	0	17	17	3	0	0	0	0	20	24	4	2	0	0	0	30
18:45	6	2	0	0	0	0	8	12	4	1	0	0	0	17	18	2	1	0	0	0	21
H/TOT	48	10	1	0	0	0	59	66	10	1	0	0	0	77							
P/TOT	209	32	2	0	0	0	243	247	39	2	0	0	0	288							

Vehicles parked at 16:00

CAR	LGV	OGV1	OGV2	PSV	MCL
56	9	1	0	0	0

Vehicles parked at 19:00

CAR	LGV	OGV1	OGV2	PSV	MCL
18	2	1	0	0	0

Peak Accumulation **50**
Capacity 221
% of capacity 22.6%

SITE: 4

DATE: 10/02/2026

LOCATION: Side Car Park

DAY: Tuesday

TIME	ENTRY						TOT	EXIT						TOT	ACCUMULATION						TOT	
	CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		
07:00	1	1	0	0	0	0	2	1	1	0	0	0	0	2	2	0	0	0	0	0	0	2
07:15	2	1	0	0	1	0	4	1	1	0	0	0	0	2	3	0	0	0	1	0	0	4
07:30	5	0	0	0	0	0	5	5	0	0	0	1	0	6	3	0	0	0	0	0	0	3
07:45	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	2
H/TOT	8	2	0	0	1	0	11	8	2	0	0	1	0	11								
08:00	0	1	0	0	0	0	1	1	1	0	0	0	0	2	1	0	0	0	0	0	0	1
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
08:30	1	1	0	0	0	0	2	0	1	0	0	0	0	1	2	0	0	0	0	0	0	2
08:45	1	1	0	0	0	0	2	3	1	0	0	0	0	4	0	0	0	0	0	0	0	0
H/TOT	2	3	0	0	0	0	5	4	3	0	0	0	0	7								
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30	2	0	0	0	0	0	2	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1
09:45	3	0	0	0	0	0	3	2	0	0	0	0	0	2	2	0	0	0	0	0	0	2
H/TOT	5	0	0	0	0	0	5	3	0	0	0	0	0	3								
P/TOT	15	5	0	0	1	0	21	15	5	0	0	1	0	21								

Vehicles parked at 07:00

CAR	LGV	OGV1	OGV2	PSV	MCL
2	0	0	0	0	0

Vehicles parked at 10:00

CAR	LGV	OGV1	OGV2	PSV	MCL
2	0	0	0	0	0

Peak Accumulation 4
Capacity 90
% of capacity 4.4%

TIME	ENTRY						TOT	EXIT						TOT	ACCUMULATION						TOT	
	CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		CAR	LGV	OGV1	OGV2	PSV	MCL		
16:00	4	0	0	0	0	0	4	2	1	0	0	0	0	3	6	0	0	0	0	0	0	6
16:15	0	1	0	0	0	0	1	3	0	0	0	0	0	3	3	1	0	0	0	0	0	4
16:30	6	0	0	0	0	0	6	6	0	0	0	0	0	6	3	1	0	0	0	0	0	4
16:45	1	0	0	0	1	0	2	2	0	0	0	0	0	2	2	1	0	0	1	0	0	4
H/TOT	11	1	0	0	1	0	13	13	1	0	0	0	0	14								
17:00	1	1	0	0	0	0	2	2	0	0	0	1	0	3	1	2	0	0	0	0	0	3
17:15	1	0	0	0	0	0	1	1	2	0	0	0	0	3	1	0	0	0	0	0	0	1
17:30	2	0	0	0	0	0	2	2	0	0	0	0	0	2	1	0	0	0	0	0	0	1
17:45	4	1	0	0	0	0	5	0	0	0	0	0	0	0	5	1	0	0	0	0	0	6
H/TOT	8	2	0	0	0	0	10	5	2	0	0	1	0	8								
18:00	3	1	0	0	0	0	4	4	0	0	0	0	0	4	4	2	0	0	0	0	0	6
18:15	5	1	0	0	0	0	6	2	1	0	0	0	0	3	7	2	0	0	0	0	0	9
18:30	2	0	0	0	0	0	2	7	1	0	0	0	0	8	2	1	0	0	0	0	0	3
18:45	1	1	0	0	0	0	2	1	1	0	0	0	0	2	2	1	0	0	0	0	0	3
H/TOT	11	3	0	0	0	0	14	14	3	0	0	0	0	17								
P/TOT	30	6	0	0	1	0	37	32	6	0	0	1	0	39								

Vehicles parked at 16:00

CAR	LGV	OGV1	OGV2	PSV	MCL
4	1	0	0	0	0

Vehicles parked at 19:00

CAR	LGV	OGV1	OGV2	PSV	MCL
2	1	0	0	0	0

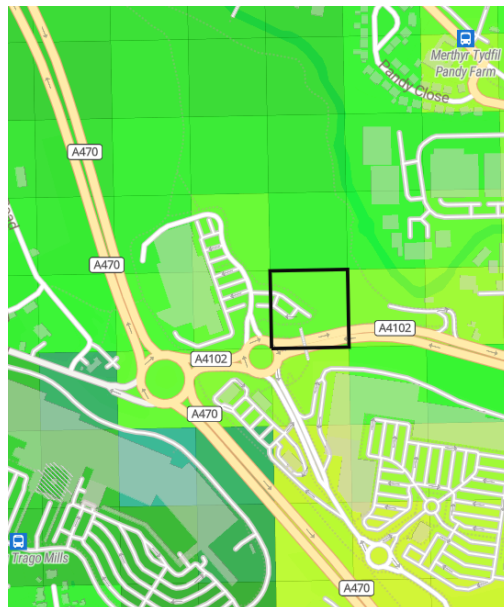
Peak Accumulation 9
Capacity 90
% of capacity 10.0%

Appendix C

(Connectivity Tool Report)

Explore the score

Square ID	303850_206750
Local authorities	Merthyr Tydfil South East Wales
Latitude	51.751163
Longitude	-3.394254



Overall

Type	National score	National distribution
Overall (except driving)	62	Above average (60-70%)
Public transport	63	Above average (60-70%)
Walking	61	Above average (60-70%)
Cycling	64	Above average (60-70%)
Driving	85	Very high (80-90%)

Education

Type	National score	National distribution
Overall (except driving)	48	Slightly below average (40-50%)
Public transport	60	Above average (60-70%)

Type	National score	National distribution
Walking	37	Below average (30-40%)
Cycling	57	Slightly above average (50-60%)
Driving	74	High (70-80%)

Leisure

Type	National score	National distribution
Overall (except driving)	62	Above average (60-70%)
Public transport	64	Above average (60-70%)
Walking	58	Slightly above average (50-60%)
Cycling	72	High (70-80%)
Driving	89	Very high (80-90%)

Health

Type	National score	National distribution
Overall (except driving)	65	Above average (60-70%)
Public transport	68	Above average (60-70%)
Walking	60	Above average (60-70%)
Cycling	69	Above average (60-70%)
Driving	83	Very high (80-90%)

Shopping

Type	National score	National distribution
Overall (except driving)	81	Very high (80-90%)
Public transport	81	Very high (80-90%)

Type	National score	National distribution
Walking	81	Very high (80-90%)
Cycling	86	Very high (80-90%)
Driving	95	Highest (90-100%)

Residential

Type	National score	National distribution
Overall (except driving)	59	Slightly above average (50-60%)
Public transport	54	Slightly above average (50-60%)
Walking	63	Above average (60-70%)
Cycling	63	Above average (60-70%)
Driving	81	Very high (80-90%)

Workplaces

Type	National score	National distribution
Overall (except driving)	50	Slightly above average (50-60%)
Public transport	49	Slightly below average (40-50%)
Walking	49	Slightly below average (40-50%)
Cycling	53	Slightly above average (50-60%)
Driving	71	High (70-80%)

Appendix D

(TRICS Data)

Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use: 06 - HOTEL, FOOD & DRINK

Category: D - FAST FOOD - DRIVE THROUGH

Selected Vehicle Type: Total Vehicles

Selected regions and areas:

10	WALES		
	CE	CEREDIGION	1 day
	NW	NEWPORT	1 day

This section displays the number of survey days per TRICS® sub-region in the selected set.

Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

Primary Filtering Selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter:	GFA
Actual Range:	210 to 800 (units:sqm)
Range Selected by User:	210 to 800 (units:sqm)
Parking Spaces Range:	9 - 98

Public Transport Provision:

Selection by:	All Surveys Included
Date Range:	11/08/10 to 24/06/25

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Saturday	2 days
----------	--------

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	2
Direction ATC Count	0

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines

Selected Locations:

Edge of Town	2 days
--------------	--------

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Retail Zone	2 days
-------------	--------

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Inclusion of Servicing Vehicle Counts:

Servicing vehicles Unknown	2 days
----------------------------	--------

Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

Secondary Filtering Selection:

Use Class:

Not Known	2 surveys
-----------	-----------

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

45 - 4890

Population within 1 mile:

10,001 to 15,000	2 surveys
------------------	-----------

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

125,001 to 250,000	1 surveys
25,001 to 50,000	1 surveys

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	1 surveys
1.1 to 1.5	1 surveys

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

Petrol filling station:

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

No 2 surveys

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 2 surveys

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

COVID-19 Restrictions:

No



Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

1	CE-06-D-01	MCDONALD'S	CEREDIGION
FFORDD PARC Y LLYN ABERYSTWYTH Edge of Town Retail Zone Gross floor area: 350 sqm Survey date:			
Survey Type: Unknown			
2	NW-06-D-01	KFC	NEWPORT
SPYTTY ROAD NEWPORT Edge of Town Retail Zone Gross floor area: 341 sqm Survey date:			
Survey Type: Unknown			

DESELECTED SURVEYS

Site Ref	Survey Date	Reason for Deselection
AK-06-D-01 26-04-2025	26-04-2025	Outside of Wales
AR-06-D-01 07-10-2023	07-10-2023	Outside of Wales
BK-06-D-01 12-09-2020	12-09-2020	Outside of Wales
CR-06-D-01 15-12-2012	15-12-2012	Outside of Wales
DL-06-D-02 15-09-2012	15-09-2012	Outside of Wales
DN-06-D-02 01-12-2012	01-12-2012	Outside of Wales
DY-06-D-01 26-07-2015	26-07-2015	Outside of Wales
ES-06-D-02 24-03-2024	24-03-2024	Outside of Wales
EX-06-D-01 09-07-2016	09-07-2016	Outside of Wales
GS-06-D-01 24-04-2021	24-04-2021	Outside of Wales
KS-06-D-01 20-05-2017	20-05-2017	Outside of Wales
NF-06-D-01 23-11-2024	23-11-2024	Outside of Wales
TB-06-D-01 30-03-2019	30-03-2019	Outside of Wales
TV-06-D-02 21-05-2022	21-05-2022	Outside of Wales
TW-06-D-01 14-11-2015	14-11-2015	Outside of Wales
WM-06-D-02 08-11-2015	08-11-2015	Outside of Wales

Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/D - FAST FOOD - DRIVE THROUGH

Total Vehicles

Calculation factor: 100 sqm

**BOLD print indicates peak (busiest) period*

Time Range	No. Days	Ave. GFA	Arrivals	Departures	Totals
00:00-01:00					
01:00-02:00					
02:00-03:00					
03:00-04:00					
04:00-05:00					
05:00-06:00	1	350	1.429	0.857	2.286
06:00-07:00	1	350	7.714	5.143	12.857
07:00-08:00	1	350	9.143	6.857	16.000
08:00-09:00	2	346	7.959	7.381	15.340
09:00-10:00	2	346	15.051	12.880	27.931
10:00-11:00	2	346	15.051	15.485	30.536
11:00-12:00	2	346	20.260	16.787	37.047
12:00-13:00	2	346	28.509	26.339	54.848
13:00-14:00	2	346	27.062	29.522	56.584
14:00-15:00	2	346	25.036	22.287	47.323
15:00-16:00	2	346	20.405	22.865	43.270
16:00-17:00	2	346	18.958	20.116	39.074
17:00-18:00	2	346	16.208	16.787	32.995
18:00-19:00	2	346	21.418	20.550	41.968
19:00-20:00	2	346	18.379	19.971	38.350
20:00-21:00	2	346	11.577	12.446	24.023
21:00-22:00	2	346	11.577	11.722	23.299
22:00-23:00	2	346	7.959	9.986	17.945
23:00-00:00	1	350	12.571	14.000	26.571
Total Rates:			296.266	291.981	588.247

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: $COUNT/TRP*FACT$. Trip rates are then rounded to 3 decimal places.

The survey data, graphs and all associated supporting information, contained within the TRICS Database are published by TRICS Consortium Limited ("the Company") and the Company claims copyright and database rights in this published work. The Company authorises those who possess a current TRICS licence to access the TRICS Database and copy the data contained within the TRICS Database for the licence holders' use only. Any resulting copy must retain all copyrights and other proprietary notices, and any disclaimer contained thereon.

The Company accepts no responsibility for loss which may arise from reliance on data contained in the TRICS Database. [No warranty of any kind, express or implied, is made as to the data contained in the TRICS Database.]

Audit Code: d83c05f1-b8a8-476b-8d40-9b797ed117a4

Parameter Summary:

Trip rate parameter range selected:	210 - 800 (units: sqm)
Survey date date range:	16/10/2010 - 09/05/2015
Number of weekdays (Monday-Friday):	0
Number of Saturdays:	2
Number of Sundays:	0
Surveys automatically removed from selection:	16
Surveys manually removed from selection:	0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use: 06 - HOTEL, FOOD & DRINK

Category: D - FAST FOOD - DRIVE THROUGH

Selected Vehicle Type: Total Vehicles

Selected regions and areas:

10	WALES		
	CO	CONWY	1 day
	PE	PEMBROKESHIRE	1 day
	VG	VALE OF GLAMORGAN	1 day

This section displays the number of survey days per TRICS® sub-region in the selected set.

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

Primary Filtering Selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter:	GFA
Actual Range:	210 to 800 (units:sqm)
Range Selected by User:	210 to 800 (units:sqm)
Parking Spaces Range:	9 - 98

Public Transport Provision:

Selection by:	All Surveys Included
Date Range:	11/08/10 to 24/06/25

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Friday	1 days
Thursday	2 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	3
Direction ATC Count	0

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines

Selected Locations:

Edge of Town	2 days
Edge of Town Centre	1 days

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Industrial Zone	1 days
Out of Town	1 days
Retail Zone	1 days

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Inclusion of Servicing Vehicle Counts:

Servicing vehicles Included	1 days
Servicing vehicles Unknown	2 days

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

Secondary Filtering Selection:

Use Class:

Not Known	3 surveys
-----------	-----------

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

0 - 7000

Population within 1 mile:

1,001 to 5,000	1 surveys
5,001 to 10,000	2 surveys

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

125,001 to 250,000	1 surveys
25,001 to 50,000	2 surveys

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

1.1 to 1.5	3 surveys
------------	-----------

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

Petrol filling station:

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

No 3 surveys

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 3 surveys

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

COVID-19 Restrictions:

Yes - At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

1	CO-06-D-01	MCDONALD'S	CONWY
RHUDDLAN ROAD ABERGELE Edge of Town Out of Town Gross floor area: 410 sqm Survey date: Friday 21/10/2011			
			Survey Type: Manual
2	PE-06-D-01	KFC	PEMBROKESHIRE
LONDON ROAD PEMBROKE DOCK WATERLOO Edge of Town Centre Retail Zone Gross floor area: 320 sqm Survey date: Thursday 16/11/2023			
			Survey Type: Manual
3	VG-06-D-01	MCDONALD'S	VALE OF GLAMORGAN
CARDIFF ROAD BARRY Edge of Town Industrial Zone Gross floor area: 405 sqm Survey date: Thursday 24/09/2020			
			Survey Type: Manual

DESELECTED SURVEYS

Site Ref	Survey Date	Reason for Deselection
AD-06-D-01 19-11-2019	19-11-2019	Outside of Wales
AD-06-D-02 22-11-2019	22-11-2019	Outside of Wales
AK-06-D-01 25-04-2025	25-04-2025	Outside of Wales
AR-06-D-01 06-10-2023	06-10-2023	Outside of Wales
AR-06-D-02 18-10-2023	18-10-2023	Outside of Wales
BR-06-D-01 21-09-2015	21-09-2015	Outside of Wales
BY-06-D-02 08-09-2020	08-09-2020	Outside of Wales
CA-06-D-01 19-10-2011	19-10-2011	Outside of Wales
CA-06-D-02 19-09-2017	19-09-2017	Outside of Wales
CS-06-D-01 21-09-2010	21-09-2010	Outside of Wales
DE-06-D-01 21-06-2012	21-06-2012	Outside of Wales
DL-06-D-01 28-09-2011	28-09-2011	Outside of Wales
DN-06-D-01 30-11-2011	30-11-2011	Outside of Wales
EG-06-D-01 11-05-2012	11-05-2012	Outside of Wales
FI-06-D-02 22-03-2016	22-03-2016	Outside of Wales
HC-06-D-02 20-10-2010	20-10-2010	Outside of Wales
HC-06-D-03 23-05-2023	23-05-2023	Outside of Wales
HO-06-D-01 07-12-2012	07-12-2012	Outside of Wales
IW-06-D-01 22-05-2023	22-05-2023	Outside of Wales
KD-06-D-01 19-10-2010	19-10-2010	Outside of Wales
KK-06-D-01 04-10-2019	04-10-2019	Outside of Wales
LE-06-D-01 22-06-2022	22-06-2022	Outside of Wales
LN-06-D-01 28-06-2019	28-06-2019	Outside of Wales
LN-06-D-02 13-10-2021	13-10-2021	Outside of Wales
LT-06-D-01 21-10-2022	21-10-2022	Outside of Wales

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

Site Ref	Survey Date	Reason for Deselection
LU-06-D-01 14-11-2012	14-11-2012	Outside of Wales
MS-06-D-01 16-04-2021	16-04-2021	Outside of Wales
NN-06-D-01 16-06-2022	16-06-2022	Outside of Wales
NS-06-D-01 15-09-2022	15-09-2022	Outside of Wales
SO-06-D-01 21-11-2012	21-11-2012	Outside of Wales
ST-06-D-01 24-06-2025	24-06-2025	Outside of Wales
TE-06-D-01 11-09-2024	11-09-2024	Outside of Wales
TV-06-D-01 04-09-2020	04-09-2020	Outside of Wales
WF-06-D-01 01-12-2017	01-12-2017	Outside of Wales
WM-06-D-03 26-11-2021	26-11-2021	Outside of Wales
WM-06-D-04 19-10-2022	19-10-2022	Outside of Wales
WO-06-D-01 02-10-2020	02-10-2020	Outside of Wales
WS-06-D-02 25-05-2023	25-05-2023	Outside of Wales

Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/D - FAST FOOD - DRIVE THROUGH

Total Vehicles

Calculation factor: 100 sqm

**BOLD print indicates peak (busiest) period*

Time Range	No. Days	Ave. GFA	Arrivals	Departures	Totals
00:00-01:00					
01:00-02:00					
02:00-03:00					
03:00-04:00					
04:00-05:00					
05:00-06:00					
06:00-07:00	2	408	7.239	5.153	12.392
07:00-08:00	2	408	19.877	17.055	36.932
08:00-09:00	2	408	26.135	24.663	50.798
09:00-10:00	2	408	24.172	24.785	48.957
10:00-11:00	3	378	14.449	15.419	29.868
11:00-12:00	3	378	15.683	13.392	29.075
12:00-13:00	3	378	21.498	21.233	42.731
13:00-14:00	3	378	21.674	21.762	43.436
14:00-15:00	3	378	15.066	18.767	33.833
15:00-16:00	3	378	19.736	17.445	37.181
16:00-17:00	3	378	16.828	17.974	34.802
17:00-18:00	3	378	19.471	18.062	37.533
18:00-19:00	3	378	17.269	17.885	35.154
19:00-20:00	3	378	15.066	17.181	32.247
20:00-21:00	3	378	13.392	13.216	26.608
21:00-22:00	3	378	10.749	10.132	20.881
22:00-23:00	3	378	8.811	11.278	20.089
23:00-00:00	2	362	4.138	4.276	8.414
Total Rates:			291.253	289.678	580.931

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: $COUNT/TRP*FACT$. Trip rates are then rounded to 3 decimal places.

The survey data, graphs and all associated supporting information, contained within the TRICS Database are published by TRICS Consortium Limited ("the Company") and the Company claims copyright and database rights in this published work. The Company authorises those who possess a current TRICS licence to access the TRICS Database and copy the data contained within the TRICS Database for the licence holders' use only. Any resulting copy must retain all copyrights and other proprietary notices, and any disclaimer contained thereon.

The Company accepts no responsibility for loss which may arise from reliance on data contained in the TRICS Database. [No warranty of any kind, express or implied, is made as to the data contained in the TRICS Database.]



Audit Code: 54cdf9a1-d2ed-4c14-973e-a33be0999658

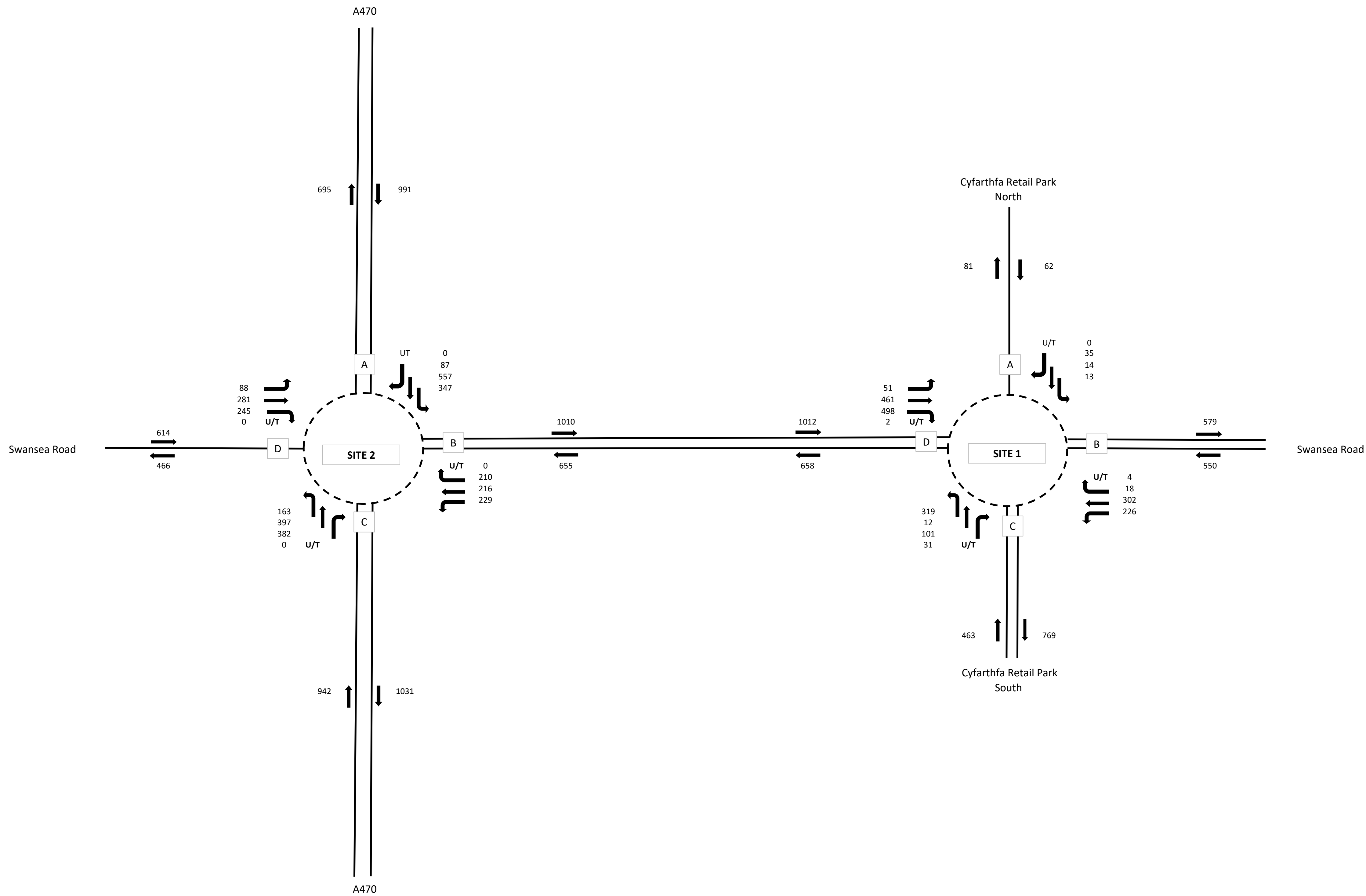
Parameter Summary:

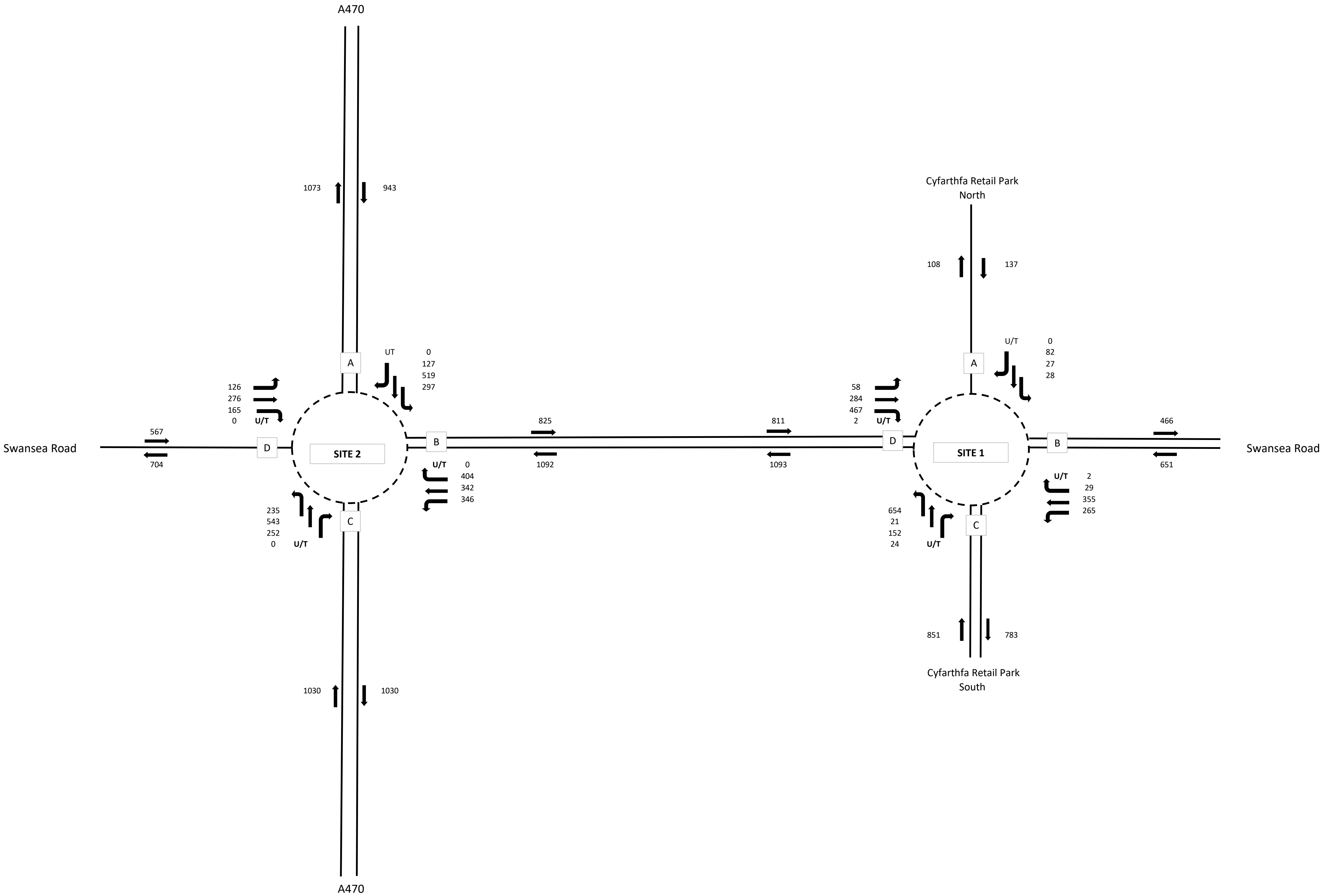
Trip rate parameter range selected:	210 - 800 (units: sqm)
Survey date date range:	21/10/2011 - 16/11/2023
Number of weekdays (Monday-Friday):	3
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	38
Surveys manually removed from selection:	0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Appendix E

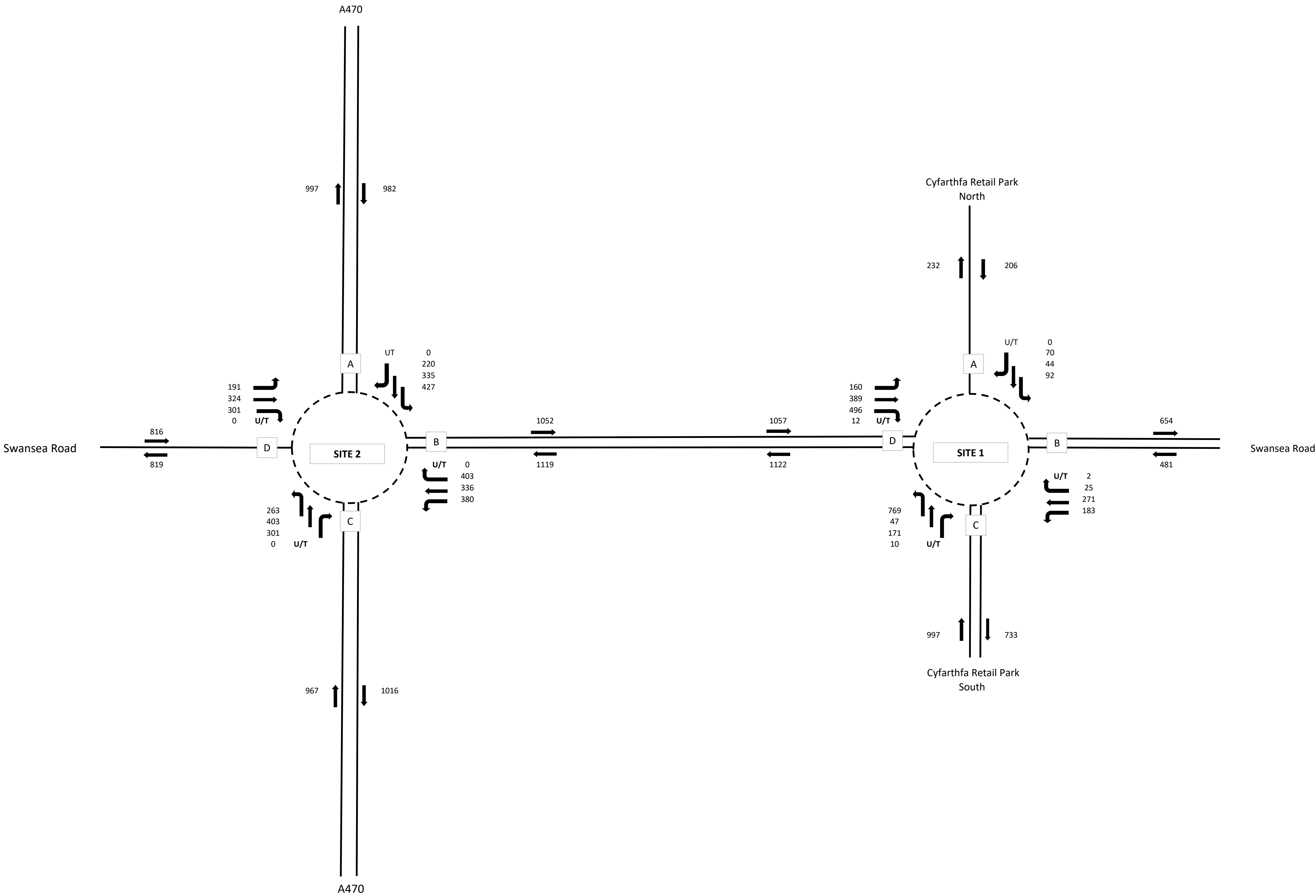
(Flow Diagrams)





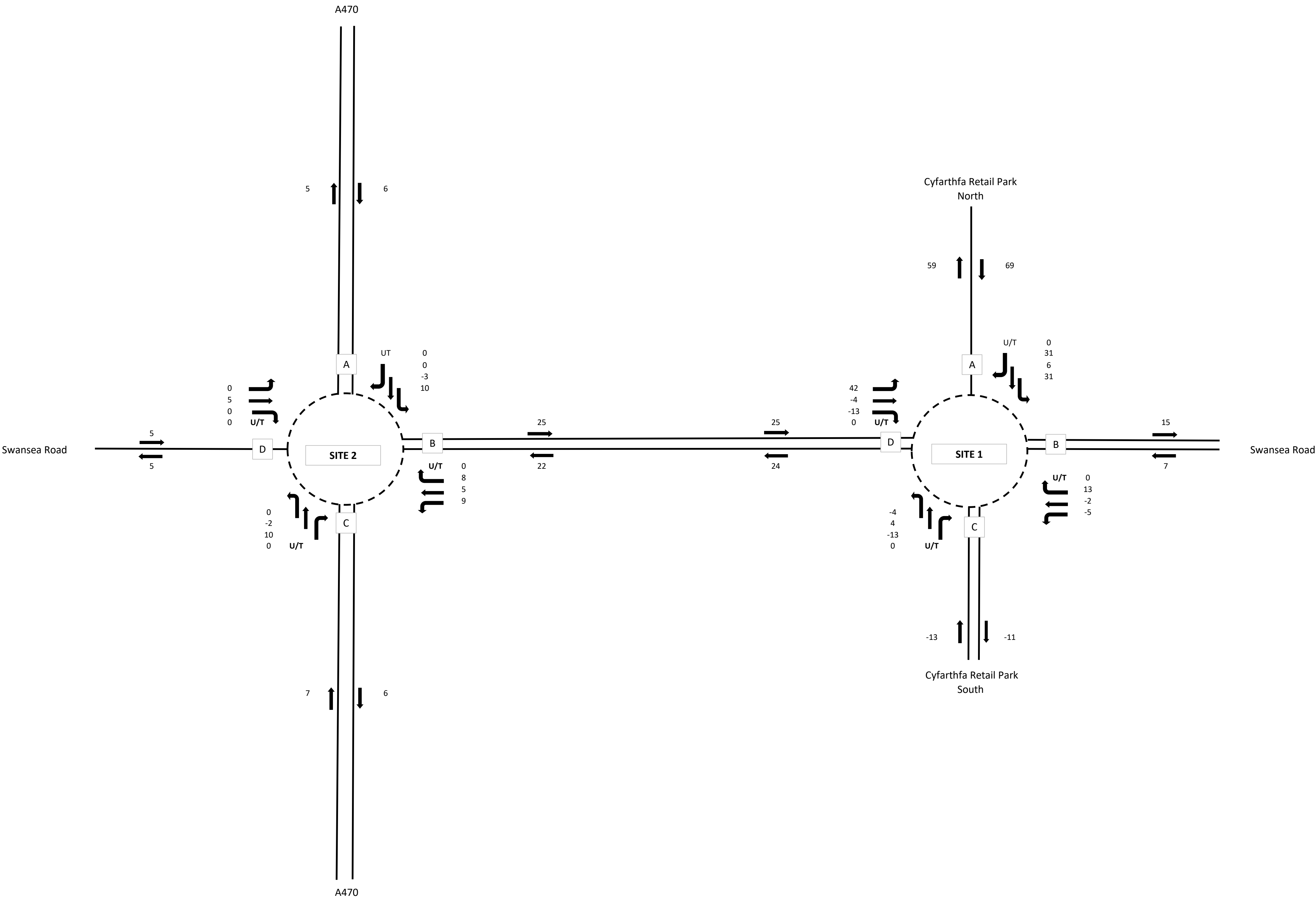
	A	B	C	D
A	0	297	519	127
B	404	0	346	342
C	543	252	0	235
D	126	276	165	0

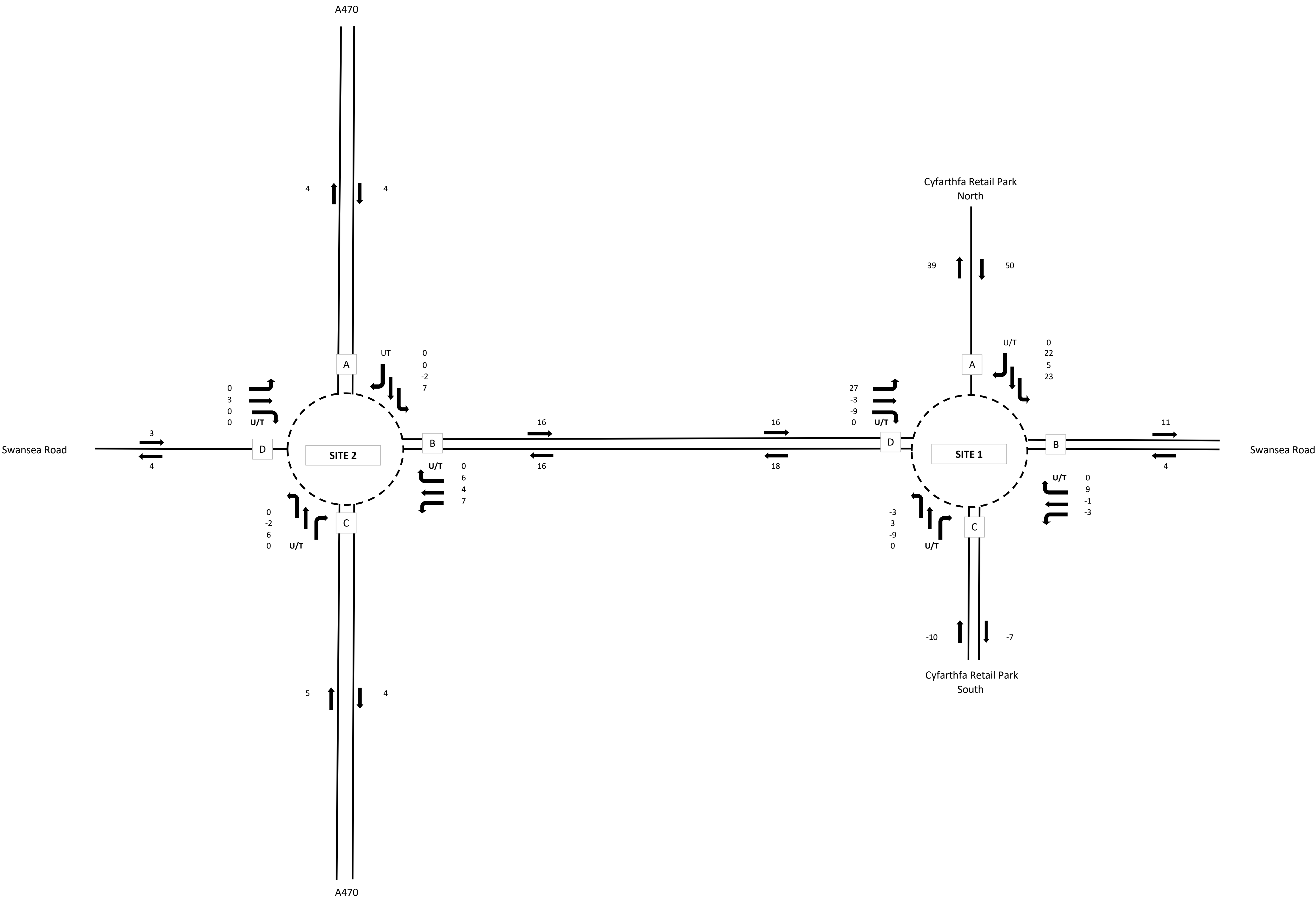
	A	B	C	D
A	0	28	27	82
B	29	2	265	355
C	21	152	24	654
D	58	284	467	2



	A	B	C	D
A	0	427	335	220
B	403	0	380	336
C	403	301	0	263
D	191	324	301	0

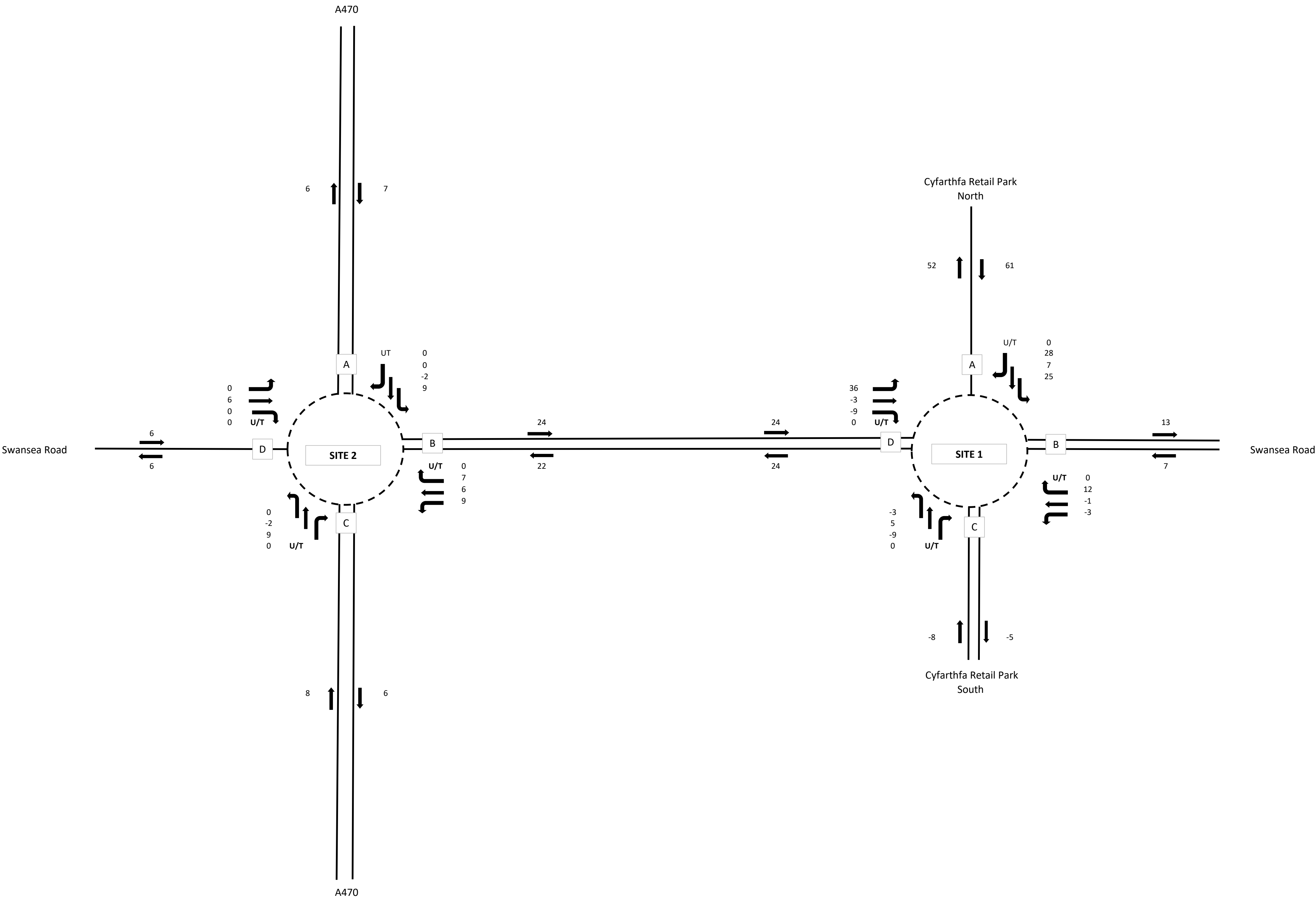
	A	B	C	D
A	0	92	44	70
B	25	2	183	271
C	47	171	10	769
D	160	389	496	12





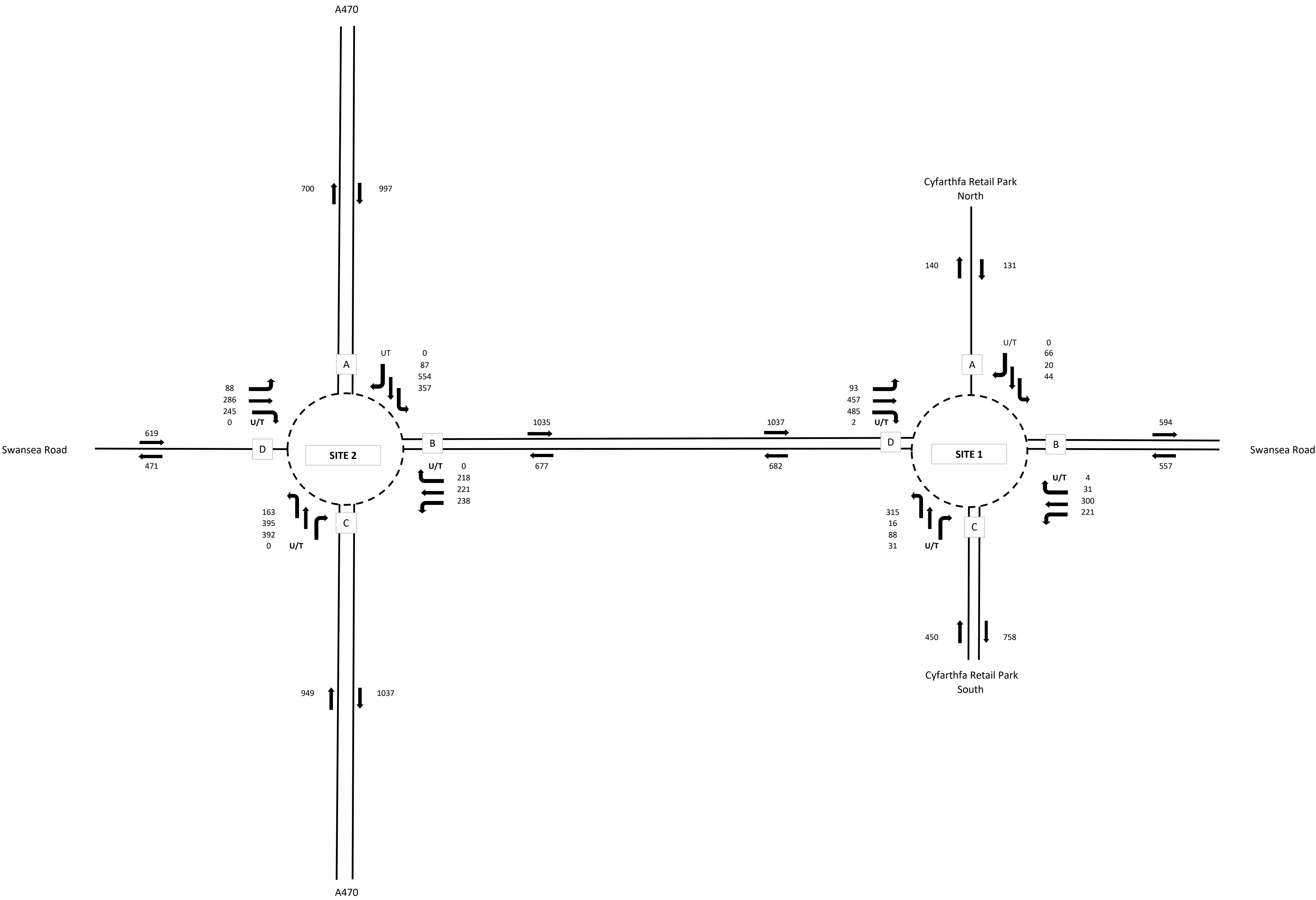
	A	B	C	D
A	0	7	-2	0
B	6	0	7	4
C	-2	6	0	0
D	0	3	0	0

	A	B	C	D
A	0	23	5	22
B	9	0	-3	-1
C	3	-9	0	-3
D	27	-3	-9	0



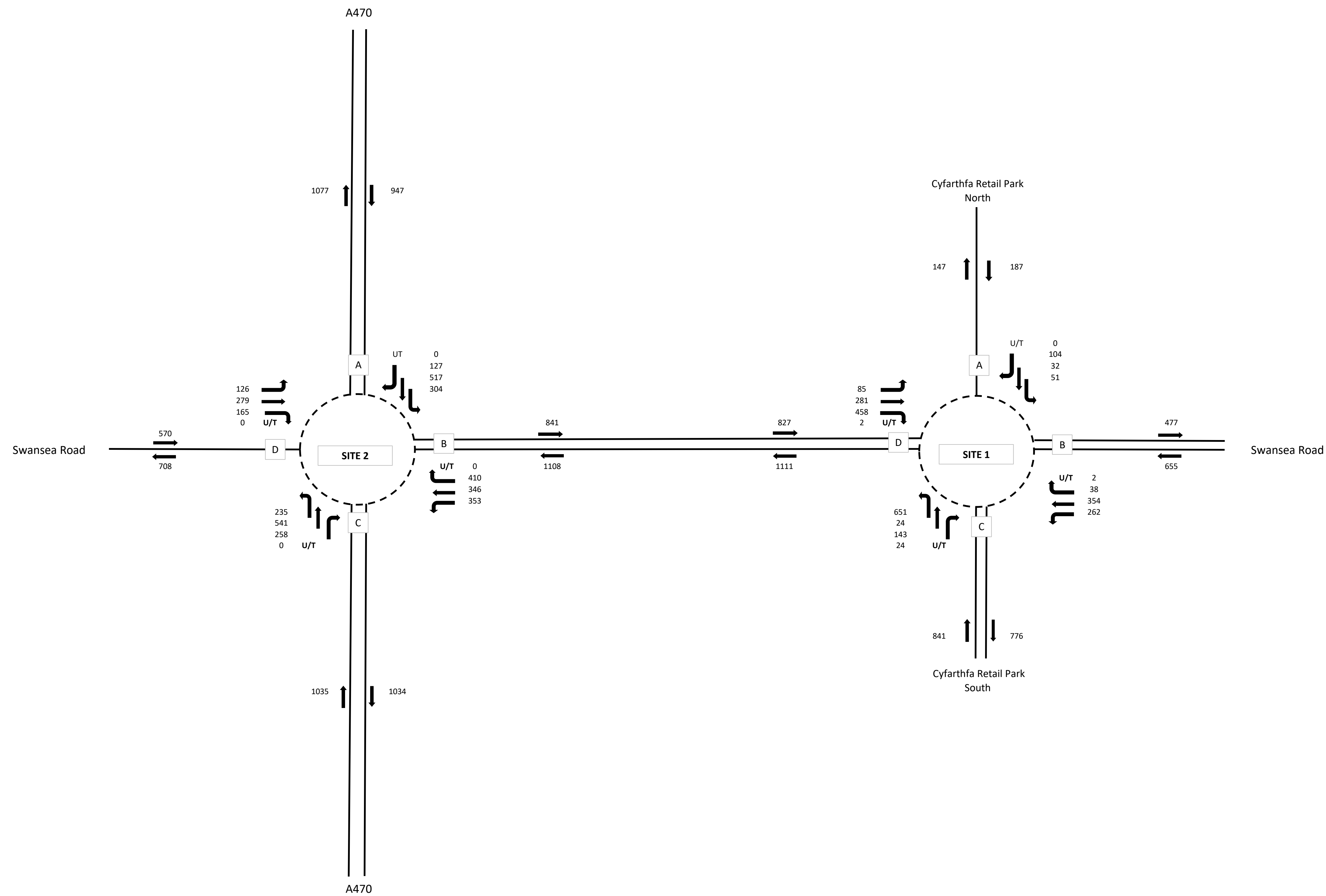
	A	B	C	D
A	0	9	-2	0
B	7	0	9	6
C	-2	9	0	0
D	0	6	0	0

	A	B	C	D
A	0	25	7	28
B	12	0	-3	-1
C	5	-9	0	-3
D	36	-3	-9	0



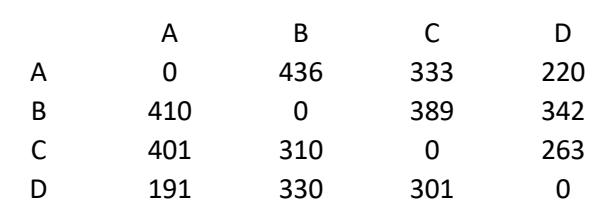
	A	B	C	D
A	0	357	554	87
B	218	0	238	221
C	395	392	0	163
D	88	286	245	0

	A	B	C	D
A	0	44	20	66
B	31	4	221	300
C	16	88	31	315
D	93	457	485	2



	A	B	C	D
A	0	304	517	127
B	410	0	353	346
C	541	258	0	235
D	126	279	165	0

	A	B	C	D
A	0	51	32	104
B	38	2	262	354
C	24	143	24	651
D	85	281	458	2



Flow 09 - Development Scenario (SAT Peak 1245 - 1345)

Appendix F

(ARCADY Output)

Junctions 11															
ARCADY 11 - Roundabout Module															
Version: 11.0.0.2177															
© Copyright TRL Software Limited, 2024															
For sales and distribution information, program advice and maintenance, contact TRL Software:															
+44 (0)1344 379777 software@trl.co.uk trlsoftware.com															
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution															

Filename: M01-KM-Cyfarthfa Retail Park (260226).j11

Path: C:\Users\KarlMamphey\TTP Consulting\Staff Site - Projects\2026\5600 - Cyfartha BK DT\Modelling

Report generation date: 27/02/2026 09:21:21

- »2026 | Observed | AM
- »2026 | Observed | PM
- »2026 | Observed | SAT
- »2030 | Dev Scenario | AM
- »2030 | Dev Scenario | PM
- »2030 | Dev Scenario | SAT

Summary of junction performance

	AM					PM					SAT				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	[Lane Simulation] - 2026 - Observed														
A - Cyfarthfa Retail Park North	D1	0.2	7.34		A	D2	0.3	6.95		A	D3	0.6	8.06		A
B - Swansea Road (E)		1.4	7.43		A		1.8	8.01		A		1.0	6.75		A
C - Cyfarthfa Retail Park South		0.9	6.69		A		2.9	11.70		B		5.1	16.86		C
D - Swansea Road (W)		2.6	8.04		A		2.3	7.45		A		3.1	8.86		A
	[Lane Simulation] - 2030 - Dev Scenario														
A - Cyfarthfa Retail Park North	D4	0.3	7.36		A	D5	0.5	6.84		A	D6	0.8	8.48		A
B - Swansea Road (E)		1.5	7.27		A		1.7	7.82		A		1.0	6.93		A
C - Cyfarthfa Retail Park South		1.0	6.61		A		3.9	12.69		B		4.2	15.97		C
D - Swansea Road (W)		2.8	7.64		A		1.9	7.35		A		2.9	8.92		A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Arm and junction delays are averages for all movements, including movements with zero delay.

File summary

File Description

Title	
Location	
Site number	
Date	26/02/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\KarlMamphey
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75						0.85	36.00	20.00		

Lane Simulation options

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	Calculate RFCs	Random seed	Results refresh speed (s)	Individual vehicle animation number of trials	Average animation capture interval (s)	Use quick response	Do flow sampling	Suppress automatic lane creation	Last run random seed	Last run number of trials	Last run time taken (s)
Delay	1.00	100000	100000	Do not calculate	-1	3	1	60	✓			1287507732	101	9.07

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2026	Observed	AM	ONE HOUR	08:00	09:30	15	✓
D2	2026	Observed	PM	ONE HOUR	15:45	17:15	15	✓
D3	2026	Observed	SAT	ONE HOUR	12:30	14:00	15	✓
D4	2030	Dev Scenario	AM	ONE HOUR	08:00	09:30	15	✓
D5	2030	Dev Scenario	PM	ONE HOUR	15:45	17:15	15	✓
D6	2030	Dev Scenario	SAT	ONE HOUR	12:30	14:00	15	✓

Analysis Set Details

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

2026 | Observed | AM

Data Errors and Warnings

Severity	Area	Item	Description
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Cyfarthfa Retail Park	Standard Roundabout		A, B, C, D	7.56	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.56	A

Arms

Arms

Arm	Name	Description	No give-way line
A	Cyfarthfa Retail Park North		
B	Swansea Road (E)		
C	Cyfarthfa Retail Park South		
D	Swansea Road (W)		

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
A - Cyfarthfa Retail Park North	4.60	7.90	15.0	16.0	40.0	36.0		
B - Swansea Road (E)	7.50	9.90	8.0	16.0	40.0	30.0		
C - Cyfarthfa Retail Park South	5.50	7.00	12.0	5.0	40.0	22.0		
D - Swansea Road (W)	7.30	7.30	0.0	15.0	40.0	37.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - Cyfarthfa Retail Park North	0.675	1915
B - Swansea Road (E)	0.820	2611
C - Cyfarthfa Retail Park South	0.617	1754
D - Swansea Road (W)	0.714	2122

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

Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
A - Cyfarthfa Retail Park North	Evenly split	10.00
B - Swansea Road (E)	Evenly split	10.00
C - Cyfarthfa Retail Park South	Evenly split	10.00
D - Swansea Road (W)	Evenly split	10.00

Lanes

Arm	Side	Lane level	Lane	Destination arms	Has limited storage	Storage (PCU)	Has bottleneck	Has obstruction	Minimum capacity (PCU/hr)	Maximum capacity (PCU/hr)	Signalised
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	✓	3.00			0	99999	
			2	A, C, D	✓	3.00			0	99999	
		2	1	(A, B, C, D)		Infinity					
	Exit	1	1			Infinity					
B - Swansea Road (E)	Entry	1	2	C	✓	2.00			0	99999	
			3	D	✓	2.00			0	99999	
			4	A, B, D	✓	3.00			0	99999	
		2	1	(A, B, C, D)		Infinity					
			2	(A, B, C, D)		Infinity					
	Exit	1	1			Infinity					
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	✓	2.00			0	99999	
			2	A, B, C, D	✓	2.00			0	99999	
		2	1	(A, B, C, D)		Infinity					
	Exit	1	1			Infinity					
D - Swansea Road (W)	Entry	1	1	A, B		Infinity			0	99999	
			2	B, C, D		Infinity			0	99999	
	Exit	1	1			Infinity					

Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
A - Cyfarthfa Retail Park North	Entry	1	1	0.337	958
			2	0.337	958
B - Swansea Road (E)	Entry	1	2	0.273	870
			3	0.273	870
			4	0.273	870
C - Cyfarthfa Retail Park South	Entry	1	1	0.308	877
			2	0.308	877
D - Swansea Road (W)	Entry	1	1	0.357	1061
			2	0.357	1061

Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			Cyfarthfa Retail Park North	Swansea Road (E)	Cyfarthfa Retail Park South	Swansea Road (W)
A - Cyfarthfa Retail Park North	1	1		✓	✓	
		2	✓		✓	✓
	2	1	✓	✓	✓	✓
B - Swansea Road (E)	1	2			✓	
		3				✓
		4	✓	✓		✓
	2	1	✓	✓	✓	✓
		2	✓	✓	✓	✓
C - Cyfarthfa Retail Park South	1	1	✓			✓
		2	✓	✓	✓	✓
	2	1	✓	✓	✓	✓
D - Swansea Road (W)	1	1	✓	✓		
		2		✓	✓	✓

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2026	Observed	AM	ONE HOUR	08:00	09:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Cyfarthfa Retail Park North		ONE HOUR	✓	62	100.000
B - Swansea Road (E)		ONE HOUR	✓	550	100.000
C - Cyfarthfa Retail Park South		ONE HOUR	✓	463	100.000
D - Swansea Road (W)		ONE HOUR	✓	1012	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	13	14	35
	B - Swansea Road (E)	18	4	226	302
	C - Cyfarthfa Retail Park South	12	101	31	319
	D - Swansea Road (W)	51	461	498	2

Vehicle Mix

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

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

	To				
From		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	0	0	0
	B - Swansea Road (E)	0	0	1	4
	C - Cyfarthfa Retail Park South	0	2	6	2
	D - Swansea Road (W)	0	2	1	0

Cyclist %

	To		
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)
From	A - Cyfarthfa Retail Park North	0	0
	B - Swansea Road (E)	0	0
	C - Cyfarthfa Retail Park South	0	0
	D - Swansea Road (W)	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - Cyfarthfa Retail Park North	7.34	0.2	A	55	83
B - Swansea Road (E)	7.43	1.4	A	507	760
C - Cyfarthfa Retail Park South	6.69	0.9	A	432	647
D - Swansea Road (W)	8.04	2.6	A	937	1406

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	45	11	850	45	47	61	0.0	0.1	5.577	A
B - Swansea Road (E)	423	106	444	423	415	450	0.0	0.8	5.650	A
C - Cyfarthfa Retail Park South	356	89	274	355	349	594	0.0	0.6	5.273	A
D - Swansea Road (W)	785	196	125	786	759	504	0.0	1.0	5.371	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	53	13	988	53	62	76	0.1	0.2	6.131	A
B - Swansea Road (E)	500	125	514	499	500	526	0.8	0.9	6.078	A
C - Cyfarthfa Retail Park South	415	104	335	415	422	678	0.6	0.7	5.621	A
D - Swansea Road (W)	917	229	151	913	917	598	1.0	1.9	6.103	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	66	16	1220	66	72	92	0.2	0.1	6.937	A
B - Swansea Road (E)	609	152	644	607	611	642	0.9	1.4	7.201	A
C - Cyfarthfa Retail Park South	520	130	398	518	518	853	0.7	0.9	6.390	A
D - Swansea Road (W)	1132	283	183	1129	1122	733	1.9	2.6	7.763	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	67	17	1206	67	74	85	0.1	0.1	7.337	A
B - Swansea Road (E)	609	152	639	611	616	634	1.4	1.0	7.426	A
C - Cyfarthfa Retail Park South	507	127	394	509	513	855	0.9	0.9	6.691	A
D - Swansea Road (W)	1112	278	178	1112	1128	725	2.6	2.6	8.036	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	55	14	992	56	61	73	0.1	0.1	6.204	A
B - Swansea Road (E)	496	124	530	497	512	517	1.0	0.8	6.478	A
C - Cyfarthfa Retail Park South	433	108	324	433	430	703	0.9	0.8	5.947	A
D - Swansea Road (W)	909	227	156	910	922	600	2.6	1.7	6.512	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	46	11	841	45	54	61	0.1	0.1	5.350	A
B - Swansea Road (E)	404	101	440	406	425	446	0.8	0.6	5.733	A
C - Cyfarthfa Retail Park South	358	89	269	355	356	577	0.8	0.7	5.443	A
D - Swansea Road (W)	769	192	130	771	771	494	1.7	1.0	5.506	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	15	671	0.022	14	14	0.0	0.0	5.654	A
			2	A, C, D	30	671	0.045	30	33	0.0	0.0	5.544	A
		2	1	(A, B, C, D)	45			45	48	0.0	0.0	0.000	A
	Exit	1	1		61			61	61	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	177	749	0.236	177	171	0.0	0.3	5.858	A
			3	D	117	749	0.156	117	116	0.0	0.2	5.161	A
			4	A, B, D	129	749	0.172	129	129	0.0	0.2	5.274	A
		2	1	(A, B, C, D)	212			212	212	0.0	0.0	0.162	A
			2	(A, B, C, D)	211			210	207	0.0	0.0	0.161	A
	Exit	1	1		450			450	437	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	140	793	0.176	139	136	0.0	0.2	4.878	A
			2	A, B, C, D	216	793	0.273	216	214	0.0	0.3	5.316	A
		2	1	(A, B, C, D)	356			356	352	0.0	0.0	0.128	A
	Exit	1	1		594			594	577	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	271	1016	0.267	272	261	0.0	0.3	4.219	A
			2	B, C, D	514	1016	0.506	514	497	0.0	0.7	5.972	A
	Exit	1	1		504			504	496	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	15	624	0.025	15	21	0.0	0.0	6.010	A
			2	A, C, D	38	624	0.060	37	41	0.0	0.1	6.192	A
		2	1	(A, B, C, D)	53			53	62	0.0	0.0	0.000	A
	Exit	1	1		76			76	72	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	198	730	0.272	197	198	0.3	0.4	6.282	A
			3	D	143	730	0.196	143	145	0.2	0.3	5.562	A
			4	A, B, D	159	730	0.218	159	156	0.2	0.3	5.545	A
		2	1	(A, B, C, D)	253			253	252	0.0	0.0	0.209	A
			2	(A, B, C, D)	248			248	249	0.0	0.0	0.253	A
	Exit	1	1		526			526	528	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	166	774	0.214	166	169	0.2	0.3	5.071	A
			2	A, B, C, D	250	774	0.322	249	254	0.3	0.4	5.542	A
		2	1	(A, B, C, D)	415			415	423	0.0	0.0	0.268	A
	Exit	1	1		678			678	687	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	329	1007	0.327	329	328	0.3	0.5	4.624	A
			2	B, C, D	588	1007	0.584	584	589	0.7	1.5	6.919	A
	Exit	1	1		598			598	614	0.0	0.0	0.000	A

08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	22	546	0.040	22	23	0.0	0.0	6.467	A
			2	A, C, D	44	546	0.080	44	49	0.1	0.1	7.160	A
		2	1	(A, B, C, D)	66			66	72	0.0	0.0	0.000	A
	Exit	1	1		92			92	88	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	250	694	0.360	249	250	0.4	0.7	7.012	A
			3	D	173	694	0.249	173	169	0.3	0.2	5.955	A
			4	A, B, D	186	694	0.268	186	192	0.3	0.3	6.216	A
		2	1	(A, B, C, D)	306			306	305	0.0	0.1	0.733	A
			2	(A, B, C, D)	303			304	307	0.0	0.1	0.710	A
	Exit	1	1		642			642	645	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	212	754	0.281	212	211	0.3	0.3	5.476	A
			2	A, B, C, D	307	754	0.407	306	307	0.4	0.5	6.098	A
		2	1	(A, B, C, D)	520			520	519	0.0	0.0	0.546	A
	Exit	1	1		853			853	850	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	426	996	0.428	426	420	0.5	0.6	5.506	A
			2	B, C, D	706	996	0.709	703	703	1.5	1.9	9.100	A
	Exit	1	1		733			733	740	0.0	0.0	0.000	A

08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	22	551	0.039	22	25	0.0	0.0	7.205	A
			2	A, C, D	45	551	0.082	46	49	0.1	0.0	7.396	A
		2	1	(A, B, C, D)	67			67	74	0.0	0.0	0.006	A
	Exit	1	1		85			85	89	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	256	696	0.368	257	258	0.7	0.3	7.358	A
			3	D	169	696	0.242	168	171	0.2	0.3	5.996	A
			4	A, B, D	185	696	0.266	185	187	0.3	0.3	6.460	A
		2	1	(A, B, C, D)	309			310	309	0.1	0.0	0.717	A
			2	(A, B, C, D)	299			300	305	0.1	0.0	0.713	A
	Exit	1	1		634			634	644	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	205	756	0.271	206	210	0.3	0.4	5.784	A
			2	A, B, C, D	304	756	0.403	304	303	0.5	0.5	6.278	A
		2	1	(A, B, C, D)	507			509	513	0.0	0.0	0.616	A
	Exit	1	1		855			855	864	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	421	997	0.422	420	424	0.6	0.8	5.696	A
			2	B, C, D	692	997	0.693	692	703	1.9	1.8	9.445	A
	Exit	1	1		725			725	733	0.0	0.0	0.000	A

09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	19	623	0.031	19	21	0.0	0.0	5.950	A
			2	A, C, D	36	623	0.058	36	40	0.0	0.0	6.341	A
		2	1	(A, B, C, D)	55			55	61	0.0	0.0	0.000	A
	Exit	1	1		73			73	74	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	204	725	0.281	204	210	0.3	0.3	6.669	A
			3	D	139	725	0.191	139	144	0.3	0.2	5.539	A
			4	A, B, D	153	725	0.211	153	159	0.3	0.2	5.784	A
		2	1	(A, B, C, D)	246			246	256	0.0	0.0	0.402	A
			2	(A, B, C, D)	250			249	255	0.0	0.0	0.386	A
	Exit	1	1		517			517	527	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	172	777	0.221	172	173	0.4	0.2	5.247	A
			2	A, B, C, D	261	777	0.336	261	256	0.5	0.5	5.844	A
		2	1	(A, B, C, D)	433			433	429	0.0	0.1	0.342	A
	Exit	1	1		703			703	710	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	325	1005	0.323	325	329	0.8	0.5	4.849	A
			2	B, C, D	584	1005	0.581	584	593	1.8	1.2	7.432	A
	Exit	1	1		600			600	613	0.0	0.0	0.000	A

09:15 - 09:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	14	674	0.020	13	17	0.0	0.0	5.183	A
			2	A, C, D	32	674	0.048	32	37	0.0	0.1	5.427	A
		2	1	(A, B, C, D)	46			46	54	0.0	0.0	0.000	A
	Exit	1	1		61			61	62	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	165	750	0.220	166	173	0.3	0.2	5.909	A
			3	D	110	750	0.147	110	118	0.2	0.2	5.299	A
			4	A, B, D	130	750	0.173	130	133	0.2	0.2	5.344	A
		2	1	(A, B, C, D)	202			202	211	0.0	0.0	0.184	A
			2	(A, B, C, D)	203			203	213	0.0	0.0	0.155	A
	Exit	1	1		446			446	447	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	136	794	0.171	135	139	0.2	0.2	4.854	A
			2	A, B, C, D	222	794	0.279	219	217	0.5	0.5	5.493	A
		2	1	(A, B, C, D)	358			358	356	0.1	0.0	0.204	A
	Exit	1	1		577			577	584	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	269	1015	0.265	271	267	0.5	0.3	4.331	A
			2	B, C, D	500	1015	0.492	501	503	1.2	0.7	6.128	A
	Exit	1	1		494			494	512	0.0	0.0	0.000	A

Lane movements: Main Results for each time segment

08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	11	3	863	619	0.017	10	10	0.0	0.0	5.788
				C	4	1	588	417	0.010	4	5	0.0	0.0	5.385
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	4	0.98	721	512	0.008	4	6	0.0	0.0	5.470
				D	26	7	958	674	0.039	27	28	0.0	0.0	5.559
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	11	3	-	-	-	11	10	0.0	0.0	0.000
				C	8	2	-	-	-	8	10	0.0	0.0	0.000
				D	26	7	-	-	-	26	28	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	177	44	870	748	0.236	177	171	0.0	0.3	5.858
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	117	29	870	748	0.156	117	116	0.0	0.2	5.161
			4	A	13	3	853	738	0.018	13	13	0.0	0.0	5.955
				B	3	0.77	465	402	0.008	3	3	0.0	0.0	4.649
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	112	28	870	748	0.150	113	112	0.0	0.2	5.210
		2	1	A	7	2	-	-	-	7	6	0.0	0.0	0.123
				B	2	0.42	-	-	-	2	2	0.0	0.0	0.000
				C	88	22	-	-	-	88	88	0.0	0.0	0.334
				D	116	29	-	-	-	116	116	0.0	0.0	0.033
			2	A	7	2	-	-	-	7	7	0.0	0.0	0.000
				B	1	0.36	-	-	-	1	1	0.0	0.0	0.000
				C	89	22	-	-	-	89	85	0.0	0.0	0.342
				D	113	28	-	-	-	113	114	0.0	0.0	0.034
C - Cyfarthfa Retail Park South	Entry	1	1	A	4	1	625	565	0.008	4	5	0.0	0.0	4.602
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	135	34	877	793	0.170	134	131	0.0	0.2	4.889
			2	A	4	0.95	538	488	0.008	4	4	0.0	0.0	4.169
				B	76	19	877	792	0.096	76	78	0.0	0.1	5.686
				C	25	6	868	786	0.032	25	24	0.0	0.0	5.898
				D	111	28	877	793	0.140	111	108	0.0	0.1	4.968
		2	1	A	8	2	-	-	-	8	9	0.0	0.0	0.018
				B	76	19	-	-	-	76	78	0.0	0.0	0.282
				C	25	6	-	-	-	25	24	0.0	0.0	0.377
				D	246	62	-	-	-	246	240	0.0	0.0	0.059
D - Swansea Road (W)	Entry	1	1	A	39	10	1061	1015	0.039	39	39	0.0	0.0	4.316
				B	232	58	1061	1016	0.228	233	222	0.0	0.3	4.202
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	129	32	1061	1016	0.127	128	124	0.0	0.2	4.181
				C	384	96	1061	1016	0.378	385	372	0.0	0.6	6.553
				D	0.95	0.24	305	293	0.003	0.95	1	0.0	0.0	8.181

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	8	2	891	590	0.013	8	12	0.0	0.0	6.035
				C	7	2	825	543	0.014	8	8	0.0	0.0	5.971
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	6	2	853	561	0.011	6	7	0.0	0.0	5.956
				D	31	8	958	624	0.050	31	34	0.0	0.1	6.239
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	8	2	-	-	-	8	13	0.0	0.0	0.000
				C	14	3	-	-	-	14	15	0.0	0.0	0.000
				D	31	8	-	-	-	31	34	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	198	50	870	730	0.272	197	198	0.3	0.4	6.282
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	143	36	870	730	0.196	143	145	0.2	0.3	5.562
			4	A	19	5	862	721	0.026	18	15	0.0	0.1	5.907
				B	3	0.68	517	434	0.006	3	3	0.0	0.0	4.739
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	138	34	870	729	0.189	138	138	0.2	0.2	5.523
		2	1	A	11	3	-	-	-	11	8	0.0	0.0	0.000
				B	1	0.27	-	-	-	1	2	0.0	0.0	0.000
				C	97	24	-	-	-	97	98	0.0	0.0	0.425
				D	144	36	-	-	-	144	144	0.0	0.0	0.072
			2	A	8	2	-	-	-	8	7	0.0	0.0	0.000
				B	2	0.42	-	-	-	2	2	0.0	0.0	0.000
				C	101	25	-	-	-	101	100	0.0	0.0	0.518
				D	137	34	-	-	-	137	140	0.0	0.0	0.071
C - Cyfarthfa Retail Park South	Entry	1	1	A	6	1	651	576	0.010	6	5	0.0	0.0	4.739
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	160	40	877	774	0.207	160	163	0.2	0.3	5.082
			2	A	5	1	617	547	0.009	5	4	0.0	0.0	4.163
				B	95	24	877	775	0.122	94	92	0.1	0.2	5.892
				C	25	6	877	771	0.033	26	26	0.0	0.0	5.875
				D	125	31	877	774	0.161	125	131	0.1	0.2	5.275
D - Swansea Road (W)	Entry	1	1	A	10	3	-	-	-	10	9	0.0	0.0	0.148
				B	95	24	-	-	-	95	93	0.0	0.0	0.518
				C	25	6	-	-	-	25	26	0.0	0.0	0.360
				D	285	71	-	-	-	285	295	0.0	0.0	0.185
			2	A	47	12	1061	1007	0.047	47	47	0.0	0.1	4.897
				B	282	71	1061	1007	0.280	282	280	0.3	0.4	4.577
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	140	35	1061	1007	0.139	140	139	0.2	0.2	4.494
				C	446	111	1061	1007	0.443	442	448	0.6	1.2	7.654
				D	2	0.56	483	460	0.005	2	2	0.0	0.0	8.213

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	14	3	929	531	0.026	14	15	0.0	0.0	6.709
				C	8	2	834	483	0.017	8	8	0.0	0.0	6.028
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	7	2	740	424	0.017	7	7	0.0	0.0	6.461
				D	36	9	958	547	0.067	37	42	0.1	0.0	7.277
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	14	3	-	-	-	14	15	0.0	0.0	0.000
				C	15	4	-	-	-	15	15	0.0	0.0	0.000
				D	36	9	-	-	-	36	42	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	250	63	870	694	0.360	249	250	0.4	0.7	7.012
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	173	43	870	694	0.249	173	169	0.3	0.2	5.955
			4	A	20	5	836	670	0.030	21	21	0.1	0.0	7.386
				B	4	0.92	500	400	0.009	4	4	0.0	0.0	6.807
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	162	41	870	695	0.234	161	167	0.2	0.3	6.051
		2	1	A	10	3	-	-	-	10	10	0.0	0.0	0.216
				B	2	0.53	-	-	-	2	2	0.0	0.0	0.000
				C	126	31	-	-	-	125	125	0.0	0.1	1.283
				D	168	42	-	-	-	168	167	0.0	0.0	0.351
			2	A	10	2	-	-	-	10	10	0.0	0.0	0.175
				B	2	0.39	-	-	-	2	2	0.0	0.0	0.374
				C	125	31	-	-	-	125	125	0.0	0.1	1.170
				D	167	42	-	-	-	167	170	0.0	0.0	0.398
C - Cyfarthfa Retail Park South	Entry	1	1	A	9	2	712	613	0.015	9	7	0.0	0.0	5.230
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	203	51	877	754	0.269	203	204	0.3	0.3	5.485
			2	A	5	1	634	545	0.009	5	5	0.0	0.0	5.686
				B	112	28	877	754	0.148	112	111	0.2	0.2	6.791
				C	33	8	877	756	0.044	33	35	0.0	0.1	7.085
				D	158	39	877	755	0.209	156	155	0.2	0.2	5.399
		2	1	A	14	4	-	-	-	14	13	0.0	0.0	0.458
				B	112	28	-	-	-	112	111	0.0	0.0	0.894
				C	33	8	-	-	-	33	36	0.0	0.0	0.934
				D	361	90	-	-	-	361	359	0.0	0.0	0.405
D - Swansea Road (W)	Entry	1	1	A	58	14	1061	996	0.058	58	55	0.1	0.2	6.101
				B	368	92	1061	995	0.370	368	365	0.4	0.5	5.413
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	144	36	1061	995	0.144	144	150	0.2	0.2	5.455
				C	560	140	1061	996	0.562	556	550	1.2	1.7	10.069
				D	3	0.68	494	463	0.006	3	3	0.0	0.0	11.290

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	15	4	920	529	0.029	16	17	0.0	0.0	7.410
				C	6	2	834	477	0.013	6	8	0.0	0.0	6.778
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	7	2	815	461	0.015	7	8	0.0	0.0	5.922
				D	38	10	958	548	0.070	39	41	0.0	0.0	7.672
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	15	4	-	-	-	15	17	0.0	0.0	0.000
				C	13	3	-	-	-	13	16	0.0	0.0	0.000
				D	38	10	-	-	-	38	41	0.0	0.0	0.011
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	256	64	870	696	0.367	257	258	0.7	0.3	7.358
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	169	42	870	696	0.242	168	171	0.2	0.3	5.996
			4	A	17	4	853	686	0.025	17	19	0.0	0.0	7.316
				B	4	1	595	475	0.009	4	5	0.0	0.0	7.356
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	164	41	870	696	0.236	164	164	0.3	0.3	6.331
		2	1	A	10	3	-	-	-	10	10	0.0	0.0	0.198
				B	3	0.65	-	-	-	3	3	0.0	0.0	0.490
				C	128	32	-	-	-	129	129	0.1	0.0	1.216
				D	168	42	-	-	-	168	168	0.0	0.0	0.361
			2	A	7	2	-	-	-	7	9	0.0	0.0	0.583
				B	2	0.39	-	-	-	2	2	0.0	0.0	0.360
				C	126	31	-	-	-	127	128	0.1	0.0	1.307
				D	165	41	-	-	-	165	167	0.0	0.0	0.258
C - Cyfarthfa Retail Park South	Entry	1	1	A	6	1	730	629	0.009	6	7	0.0	0.0	5.777
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	199	50	877	755	0.264	199	202	0.3	0.4	5.784
			2	A	5	1	677	587	0.009	5	6	0.0	0.0	5.109
				B	113	28	877	755	0.149	111	111	0.2	0.2	6.700
				C	34	8	877	757	0.045	34	34	0.1	0.1	7.374
				D	152	38	877	755	0.202	153	152	0.2	0.2	5.783
		2	1	A	11	3	-	-	-	11	13	0.0	0.0	0.564
				B	112	28	-	-	-	113	112	0.0	0.0	0.975
				C	34	8	-	-	-	34	33	0.0	0.0	0.930
				D	350	88	-	-	-	351	355	0.0	0.0	0.477
D - Swansea Road (W)	Entry	1	1	A	57	14	1061	997	0.057	56	58	0.2	0.2	6.129
				B	364	91	1061	997	0.365	364	367	0.5	0.6	5.627
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	139	35	1061	998	0.139	139	144	0.2	0.2	5.446
				C	551	138	1061	997	0.552	551	556	1.7	1.6	10.466
				D	2	0.48	483	454	0.004	2	3	0.0	0.0	10.775

09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	11	3	929	601	0.018	11	13	0.0	0.0	6.010
				C	8	2	796	513	0.016	8	8	0.0	0.0	5.848
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	6	2	768	491	0.013	6	7	0.0	0.0	5.798
				D	30	7	958	622	0.048	30	33	0.0	0.0	6.454
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	11	3	-	-	-	11	13	0.0	0.0	0.000
				C	15	4	-	-	-	15	15	0.0	0.0	0.000
				D	30	7	-	-	-	30	33	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	204	51	870	725	0.281	204	210	0.3	0.3	6.669
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	139	35	870	727	0.191	139	144	0.3	0.2	5.539
			4	A	16	4	853	713	0.022	16	17	0.0	0.0	6.161
				B	3	0.68	474	390	0.007	3	4	0.0	0.0	6.062
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	134	34	870	725	0.185	134	138	0.3	0.2	5.730
		2	1	A	9	2	-	-	-	9	8	0.0	0.0	0.000
				B	1	0.33	-	-	-	1	2	0.0	0.0	0.000
				C	101	25	-	-	-	101	104	0.0	0.0	0.856
				D	135	34	-	-	-	135	142	0.0	0.0	0.092
			2	A	7	2	-	-	-	7	8	0.0	0.0	0.257
				B	1	0.36	-	-	-	1	2	0.0	0.0	0.000
				C	103	26	-	-	-	103	106	0.0	0.0	0.725
				D	138	34	-	-	-	138	140	0.0	0.0	0.133
C - Cyfarthfa Retail Park South	Entry	1	1	A	6	2	677	595	0.010	6	6	0.0	0.0	5.144
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	166	41	877	777	0.213	166	167	0.4	0.2	5.251
			2	A	4	1	608	534	0.008	4	5	0.0	0.0	4.859
				B	96	24	877	777	0.123	95	93	0.2	0.2	6.487
				C	32	8	877	776	0.041	32	30	0.1	0.1	6.710
				D	129	32	877	776	0.167	130	129	0.2	0.2	5.228
		2	1	A	11	3	-	-	-	11	11	0.0	0.0	0.139
				B	96	24	-	-	-	96	93	0.0	0.0	0.683
				C	32	8	-	-	-	32	30	0.0	0.0	0.452
				D	294	74	-	-	-	295	295	0.0	0.0	0.231
D - Swansea Road (W)	Entry	1	1	A	47	12	1061	1006	0.047	47	46	0.2	0.1	5.410
				B	278	69	1061	1006	0.276	279	283	0.6	0.4	4.755
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	131	33	1061	1007	0.130	131	135	0.2	0.2	4.791
				C	451	113	1061	1005	0.449	452	456	1.6	1.0	8.194
				D	1	0.36	410	391	0.004	1	2	0.0	0.0	9.707

09:15 - 09:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	8	2	872	609	0.013	8	11	0.0	0.0	5.361
				C	5	1	740	518	0.011	5	6	0.0	0.0	4.870
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	5	1	721	504	0.009	5	6	0.0	0.0	5.281
				D	28	7	958	675	0.041	28	31	0.0	0.0	5.454
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	8	2	-	-	-	8	11	0.0	0.0	0.000
				C	10	3	-	-	-	10	12	0.0	0.0	0.000
				D	28	7	-	-	-	28	31	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	165	41	870	749	0.220	166	173	0.3	0.2	5.909
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	110	28	870	750	0.147	110	118	0.2	0.2	5.299
			4	A	14	4	836	719	0.020	14	14	0.0	0.0	5.605
				B	3	0.71	457	390	0.007	3	3	0.0	0.0	4.500
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	113	28	870	750	0.150	113	116	0.2	0.1	5.335
		2	1	A	6	2	-	-	-	6	7	0.0	0.0	0.000
				B	2	0.42	-	-	-	2	1	0.0	0.0	0.000
				C	85	21	-	-	-	85	87	0.0	0.0	0.411
				D	108	27	-	-	-	108	116	0.0	0.0	0.022
			2	A	8	2	-	-	-	8	7	0.0	0.0	0.000
				B	1	0.30	-	-	-	1	2	0.0	0.0	0.000
				C	79	20	-	-	-	79	86	0.0	0.0	0.334
				D	115	29	-	-	-	115	118	0.0	0.0	0.034
C - Cyfarthfa Retail Park South	Entry	1	1	A	5	1	669	603	0.009	5	5	0.0	0.0	5.751
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	131	33	877	794	0.165	130	134	0.2	0.2	4.819
			2	A	4	0.89	504	455	0.008	4	4	0.0	0.0	5.322
				B	81	20	877	795	0.102	80	78	0.2	0.1	5.993
				C	24	6	877	794	0.030	24	24	0.1	0.0	5.871
				D	114	28	877	793	0.143	112	111	0.2	0.3	5.069
		2	1	A	9	2	-	-	-	9	9	0.0	0.0	0.088
				B	81	20	-	-	-	81	78	0.0	0.0	0.408
				C	24	6	-	-	-	24	24	0.0	0.0	0.328
				D	245	61	-	-	-	244	245	0.0	0.0	0.131
D - Swansea Road (W)	Entry	1	1	A	38	10	1061	1016	0.037	38	39	0.1	0.1	4.675
				B	231	58	1061	1014	0.228	233	228	0.4	0.2	4.271
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	122	30	1061	1015	0.120	122	126	0.2	0.1	4.267
				C	376	94	1061	1014	0.371	377	376	1.0	0.6	6.738
				D	2	0.42	347	332	0.005	2	2	0.0	0.0	8.114

2026 | Observed | PM

Data Errors and Warnings

Severity	Area	Item	Description
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Cyfarthfa Retail Park	Standard Roundabout		A, B, C, D	9.04	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.04	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2026	Observed	PM	ONE HOUR	15:45	17:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Cyfarthfa Retail Park North		ONE HOUR	✓	137	100.000
B - Swansea Road (E)		ONE HOUR	✓	651	100.000
C - Cyfarthfa Retail Park South		ONE HOUR	✓	851	100.000
D - Swansea Road (W)		ONE HOUR	✓	811	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
From	A - Cyfarthfa Retail Park North	0	28	27	82
	B - Swansea Road (E)	29	2	265	355
	C - Cyfarthfa Retail Park South	21	152	24	654
	D - Swansea Road (W)	58	284	467	2

Vehicle Mix

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

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

From	To				
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	0	0	1
	B - Swansea Road (E)	3	1	0	0
	C - Cyfarthfa Retail Park South	0	0	0	0
	D - Swansea Road (W)	0	2	0	0

Cyclist %

From	To		
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)
	A - Cyfarthfa Retail Park North	0	0
	B - Swansea Road (E)	0	0
	C - Cyfarthfa Retail Park South	0	0
	D - Swansea Road (W)	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - Cyfarthfa Retail Park North	6.95	0.3	A	123	184
B - Swansea Road (E)	8.01	1.8	A	602	902
C - Cyfarthfa Retail Park South	11.70	2.9	B	776	1164
D - Swansea Road (W)	7.45	2.3	A	749	1123

Main Results for each time segment

15:45 - 16:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	106	26	699	106	108	81	0.0	0.1	5.344	A
B - Swansea Road (E)	483	121	457	485	490	348	0.0	0.6	5.778	A
C - Cyfarthfa Retail Park South	606	151	348	608	620	594	0.0	1.1	6.333	A
D - Swansea Road (W)	614	154	168	612	612	789	0.0	1.1	5.347	A

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	126	31	855	125	130	94	0.1	0.2	5.480	A
B - Swansea Road (E)	610	152	553	609	590	426	0.6	1.1	6.539	A
C - Cyfarthfa Retail Park South	775	194	431	770	781	731	1.1	1.7	8.025	A
D - Swansea Road (W)	737	184	215	735	727	987	1.1	1.2	6.212	A

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	136	34	1024	136	151	121	0.2	0.3	6.630	A
B - Swansea Road (E)	702	176	645	697	713	515	1.1	1.8	7.236	A
C - Cyfarthfa Retail Park South	937	234	494	944	932	848	1.7	2.6	11.581	B
D - Swansea Road (W)	896	224	245	900	911	1193	1.2	1.5	7.448	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	144	36	1029	146	153	125	0.3	0.2	6.950	A
B - Swansea Road (E)	730	183	662	729	738	513	1.8	1.4	8.014	A
C - Cyfarthfa Retail Park South	933	233	516	930	934	876	2.6	2.9	11.703	B
D - Swansea Road (W)	894	223	267	888	895	1180	1.5	2.3	7.258	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	128	32	843	128	130	102	0.2	0.1	5.991	A
B - Swansea Road (E)	590	148	542	592	601	429	1.4	0.9	6.275	A
C - Cyfarthfa Retail Park South	757	189	425	752	776	709	2.9	2.0	7.965	A
D - Swansea Road (W)	742	186	206	740	740	971	2.3	1.3	5.900	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	98	25	702	99	109	81	0.1	0.2	5.760	A
B - Swansea Road (E)	494	123	453	493	494	348	0.9	0.7	5.795	A
C - Cyfarthfa Retail Park South	649	162	348	649	651	598	2.0	0.9	6.657	A
D - Swansea Road (W)	610	152	176	608	609	821	1.3	1.0	5.037	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

15:45 - 16:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	33	722	0.046	33	33	0.0	0.0	5.364	A
			2	A, C, D	73	722	0.101	73	75	0.0	0.1	5.301	A
		2	1	(A, B, C, D)	106			106	108	0.0	0.0	0.024	A
	Exit	1	1		81			81	82	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	200	745	0.269	201	200	0.0	0.3	6.067	A
			3	D	129	745	0.174	130	132	0.0	0.1	5.251	A
			4	A, B, D	153	745	0.205	154	158	0.0	0.2	5.209	A
		2	1	(A, B, C, D)	227			227	239	0.0	0.0	0.228	A
			2	(A, B, C, D)	256			256	253	0.0	0.0	0.188	A
	Exit	1	1		348			348	343	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	267	770	0.347	267	275	0.0	0.4	5.607	A
			2	A, B, C, D	341	770	0.443	341	346	0.0	0.7	6.071	A
		2	1	(A, B, C, D)	606			608	625	0.0	0.0	0.467	A
	Exit	1	1		594			594	593	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	176	1001	0.176	177	179	0.0	0.2	4.234	A
			2	B, C, D	438	1001	0.438	435	433	0.0	0.9	5.800	A
	Exit	1	1		789			789	812	0.0	0.0	0.000	A

16:00 - 16:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	33	669	0.050	33	39	0.0	0.0	5.409	A
			2	A, C, D	93	669	0.138	92	91	0.1	0.1	5.507	A
		2	1	(A, B, C, D)	126			126	130	0.0	0.0	0.002	A
	Exit	1	1		94			94	94	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	259	719	0.360	258	246	0.3	0.5	6.678	A
			3	D	169	719	0.235	168	164	0.1	0.2	5.324	A
			4	A, B, D	184	719	0.255	182	180	0.2	0.3	5.475	A
		2	1	(A, B, C, D)	294			294	297	0.0	0.0	0.578	A
			2	(A, B, C, D)	316			317	295	0.0	0.0	0.631	A
	Exit	1	1		426			426	422	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	342	744	0.460	341	348	0.4	0.5	6.226	A
			2	A, B, C, D	432	744	0.581	430	433	0.7	1.0	6.916	A
		2	1	(A, B, C, D)	775			775	783	0.0	0.2	1.417	A
	Exit	1	1		731			731	717	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	236	984	0.240	235	221	0.2	0.3	4.407	A
			2	B, C, D	501	984	0.509	499	506	0.9	1.0	6.993	A
	Exit	1	1		987			987	994	0.0	0.0	0.000	A

16:15 - 16:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	39	612	0.064	39	46	0.0	0.1	5.846	A
			2	A, C, D	97	612	0.158	96	105	0.1	0.2	6.955	A
		2	1	(A, B, C, D)	136			136	151	0.0	0.0	0.016	A
	Exit	1	1		121			121	122	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	293	694	0.423	290	293	0.5	0.8	7.095	A
			3	D	193	694	0.278	193	198	0.2	0.4	5.859	A
			4	A, B, D	214	694	0.308	214	221	0.3	0.4	6.443	A
		2	1	(A, B, C, D)	348			346	357	0.0	0.1	0.679	A
			2	(A, B, C, D)	355			354	358	0.0	0.1	0.671	A
	Exit	1	1		515			515	522	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	427	725	0.589	426	419	0.5	1.0	7.482	A
			2	A, B, C, D	514	725	0.709	518	513	1.0	1.0	7.835	A
		2	1	(A, B, C, D)	937			941	934	0.2	0.7	3.903	A
	Exit	1	1		848			848	868	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	290	974	0.298	291	296	0.3	0.4	5.035	A
			2	B, C, D	606	974	0.622	609	614	1.0	1.2	8.597	A
	Exit	1	1		1193			1193	1195	0.0	0.0	0.000	A

16:30 - 16:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	46	610	0.076	47	48	0.1	0.1	6.254	A
			2	A, C, D	98	610	0.160	99	105	0.2	0.2	7.251	A
		2	1	(A, B, C, D)	144			144	152	0.0	0.0	0.014	A
	Exit	1	1		125			125	120	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	303	689	0.439	303	306	0.8	0.6	7.759	A
			3	D	202	689	0.294	203	205	0.4	0.2	6.012	A
			4	A, B, D	223	689	0.323	223	226	0.4	0.2	6.275	A
		2	1	(A, B, C, D)	360			359	365	0.1	0.1	1.211	A
			2	(A, B, C, D)	371			369	370	0.1	0.2	1.193	A
	Exit	1	1		513			513	522	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	420	718	0.585	420	420	1.0	0.7	7.222	A
			2	A, B, C, D	512	718	0.713	510	514	1.0	1.2	7.839	A
		2	1	(A, B, C, D)	933			932	934	0.7	1.0	4.145	A
	Exit	1	1		876			876	875	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	282	966	0.292	282	286	0.4	0.4	4.877	A
			2	B, C, D	611	966	0.633	605	609	1.2	1.9	8.358	A
	Exit	1	1		1180			1180	1203	0.0	0.0	0.000	A

16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	44	673	0.065	44	42	0.1	0.0	5.826	A
			2	A, C, D	84	673	0.124	84	88	0.2	0.1	6.004	A
		2	1	(A, B, C, D)	128			128	130	0.0	0.0	0.044	A
	Exit	1	1		102			102	96	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	244	722	0.337	243	247	0.6	0.4	6.474	A
			3	D	163	722	0.226	165	167	0.2	0.1	5.426	A
			4	A, B, D	183	722	0.253	184	187	0.2	0.3	5.771	A
		2	1	(A, B, C, D)	300			300	302	0.1	0.0	0.340	A
			2	(A, B, C, D)	290			290	298	0.2	0.0	0.295	A
	Exit	1	1		429			429	424	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	328	746	0.439	328	345	0.7	0.5	6.370	A
			2	A, B, C, D	426	746	0.571	425	430	1.2	0.9	6.915	A
		2	1	(A, B, C, D)	757			754	774	1.0	0.6	1.286	A
	Exit	1	1		709			709	722	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	238	987	0.241	237	229	0.4	0.3	4.228	A
			2	B, C, D	504	987	0.510	503	512	1.9	1.0	6.639	A
	Exit	1	1		971			971	1006	0.0	0.0	0.000	A

17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	30	721	0.041	30	31	0.0	0.0	5.514	A
			2	A, C, D	69	721	0.095	69	78	0.1	0.1	5.859	A
		2	1	(A, B, C, D)	98			98	109	0.0	0.0	0.000	A
	Exit	1	1		81			81	82	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	207	747	0.277	206	206	0.4	0.3	6.032	A
			3	D	133	747	0.178	132	134	0.1	0.2	5.410	A
			4	A, B, D	154	747	0.206	155	153	0.3	0.2	5.203	A
		2	1	(A, B, C, D)	245			245	242	0.0	0.0	0.194	A
			2	(A, B, C, D)	249			249	252	0.0	0.0	0.187	A
	Exit	1	1		348			348	355	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	277	770	0.360	277	284	0.5	0.5	6.034	A
			2	A, B, C, D	372	770	0.483	372	368	0.9	0.4	6.142	A
		2	1	(A, B, C, D)	649			649	649	0.6	0.0	0.573	A
	Exit	1	1		598			598	594	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	174	998	0.174	174	181	0.3	0.3	4.149	A
			2	B, C, D	435	998	0.436	434	428	1.0	0.7	5.410	A
	Exit	1	1		821			821	833	0.0	0.0	0.000	A

Lane movements: Main Results for each time segment

15:45 - 16:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	22	5	958	728	0.030	22	21	0.0	0.0	5.301
				C	11	3	900	677	0.016	11	11	0.0	0.0	5.480
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
		2	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	11	3	938	711	0.015	11	11	0.0	0.0	4.599
				D	62	15	958	723	0.086	63	64	0.0	0.0	5.425
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	22	5	-	-	-	22	21	0.0	0.0	0.000
				C	22	5	-	-	-	22	23	0.0	0.0	0.000
				D	62	15	-	-	-	62	64	0.0	0.0	0.041
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	200	50	870	744	0.269	201	200	0.0	0.3	6.067
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	129	32	870	744	0.174	130	132	0.0	0.1	5.251
		2	4	A	24	6	870	747	0.032	24	22	0.0	0.1	5.734
				B	1	0.30	296	253	0.005	1	2	0.0	0.0	7.285
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	127	32	870	743	0.171	129	134	0.0	0.1	5.094
			1	A	11	3	-	-	-	11	12	0.0	0.0	0.000
				B	0.24	0.06	-	-	-	0.24	0.88	0.0	0.0	0.000
				C	95	24	-	-	-	95	98	0.0	0.0	0.512
				D	121	30	-	-	-	121	128	0.0	0.0	0.033
C - Cyfarthfa Retail Park South	Entry	1	1	A	10	2	807	695	0.014	10	9	0.0	0.0	5.211
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	258	64	877	771	0.334	257	266	0.0	0.4	5.620
			2	A	7	2	719	628	0.012	7	7	0.0	0.0	5.905
				B	110	27	877	770	0.143	110	108	0.0	0.3	6.924
				C	16	4	860	751	0.021	15	16	0.0	0.1	7.135
				D	208	52	877	771	0.269	209	214	0.0	0.3	5.567
		2	1	A	17	4	-	-	-	17	16	0.0	0.0	0.276
				B	109	27	-	-	-	110	109	0.0	0.0	0.932
				C	16	4	-	-	-	16	16	0.0	0.0	0.929
				D	464	116	-	-	-	465	483	0.0	0.0	0.353
D - Swansea Road (W)	Entry	1	1	A	40	10	1061	1003	0.040	40	44	0.0	0.0	4.271
				B	137	34	1061	1002	0.136	137	135	0.0	0.2	4.221
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	78	19	1061	1003	0.078	77	77	0.0	0.2	4.218
				C	358	89	1061	1002	0.357	356	355	0.0	0.7	6.131
				D	2	0.60	403	382	0.006	2	2	0.0	0.0	6.430

16:00 - 16:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	20	5	958	673	0.030	20	25	0.0	0.0	5.502
				C	13	3	938	662	0.019	12	14	0.0	0.0	5.236
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	13	3	900	642	0.020	13	13	0.0	0.0	4.854
				D	80	20	958	669	0.119	79	78	0.0	0.1	5.615
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	20	5	-	-	-	20	25	0.0	0.0	0.000
				C	25	6	-	-	-	25	26	0.0	0.0	0.000
				D	80	20	-	-	-	80	78	0.0	0.0	0.004
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	259	65	870	719	0.360	258	246	0.3	0.5	6.678
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	169	42	870	719	0.235	168	164	0.1	0.2	5.324
			4	A	26	7	853	706	0.037	25	25	0.1	0.1	6.614
				B	2	0.48	366	304	0.006	2	2	0.0	0.0	7.431
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	156	39	870	718	0.217	155	153	0.1	0.2	5.264
		2	1	A	12	3	-	-	-	12	12	0.0	0.0	0.523
				B	0.96	0.24	-	-	-	0.96	1	0.0	0.0	0.087
				C	128	32	-	-	-	128	123	0.0	0.0	1.059
				D	153	38	-	-	-	153	160	0.0	0.0	0.214
			2	A	15	4	-	-	-	15	13	0.0	0.0	0.323
				B	0.96	0.24	-	-	-	0.96	0.72	0.0	0.0	0.000
				C	130	32	-	-	-	130	123	0.0	0.0	1.142
				D	171	43	-	-	-	171	158	0.0	0.0	0.261
C - Cyfarthfa Retail Park South	Entry	1	1	A	11	3	842	718	0.015	11	11	0.0	0.0	6.165
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	331	83	877	744	0.446	330	337	0.4	0.5	6.227
			2	A	9	2	789	670	0.013	9	8	0.0	0.0	7.090
				B	144	36	877	746	0.194	145	142	0.3	0.3	7.648
				C	24	6	877	751	0.032	24	22	0.1	0.1	7.366
				D	255	64	877	743	0.343	252	260	0.3	0.6	6.472
D - Swansea Road (W)	Entry	1	1	A	20	5	-	-	-	20	19	0.0	0.0	1.224
				B	145	36	-	-	-	144	143	0.0	0.1	1.971
				C	24	6	-	-	-	24	22	0.0	0.0	1.527
				D	586	147	-	-	-	587	599	0.0	0.1	1.287
			2	A	50	12	1061	987	0.051	50	50	0.0	0.0	4.646
				B	186	47	1061	985	0.189	185	170	0.2	0.2	4.336
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	74	19	1061	987	0.075	74	82	0.2	0.1	4.005
				C	425	106	1061	985	0.432	423	423	0.7	0.9	7.568
				D	2	0.48	382	356	0.005	2	2	0.0	0.0	4.677

16:15 - 16:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	26	7	958	604	0.044	26	31	0.0	0.0	5.847
				C	13	3	938	585	0.022	13	15	0.0	0.0	5.845
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	12	3	958	611	0.019	12	15	0.0	0.0	6.516
				D	85	21	958	608	0.140	85	90	0.1	0.2	7.028
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	26	7	-	-	-	26	32	0.0	0.0	0.000
				C	24	6	-	-	-	24	30	0.0	0.0	0.000
				D	85	21	-	-	-	85	90	0.0	0.0	0.026
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	293	73	870	693	0.423	290	293	0.5	0.8	7.095
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	193	48	870	692	0.278	193	198	0.2	0.4	5.859
			4	A	30	7	870	688	0.043	30	32	0.1	0.0	7.260
				B	3	0.66	366	293	0.009	3	2	0.0	0.0	6.722
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	182	45	870	694	0.262	182	187	0.2	0.4	6.308
		2	1	A	14	3	-	-	-	14	15	0.0	0.0	0.392
				B	0.96	0.24	-	-	-	0.96	0.96	0.0	0.0	0.432
				C	145	36	-	-	-	145	148	0.0	0.0	1.286
				D	187	47	-	-	-	187	193	0.0	0.1	0.236
			2	A	16	4	-	-	-	16	16	0.0	0.0	0.640
				B	2	0.42	-	-	-	2	1	0.0	0.0	1.297
				C	149	37	-	-	-	148	147	0.0	0.1	1.220
				D	188	47	-	-	-	188	194	0.0	0.0	0.253
C - Cyfarthfa Retail Park South	Entry	1	1	A	13	3	825	677	0.020	14	14	0.0	0.0	7.567
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	414	103	877	725	0.571	413	405	0.5	1.0	7.480
			2	A	8	2	719	587	0.013	8	8	0.0	0.0	6.178
				B	166	42	877	722	0.230	167	169	0.3	0.4	8.371
				C	24	6	877	721	0.033	24	24	0.1	0.0	8.736
				D	316	79	877	725	0.436	319	312	0.6	0.6	7.520
		2	1	A	21	5	-	-	-	21	22	0.0	0.0	3.432
				B	165	41	-	-	-	166	169	0.1	0.2	4.883
				C	24	6	-	-	-	24	24	0.0	0.0	4.935
				D	727	182	-	-	-	730	719	0.1	0.4	3.652
D - Swansea Road (W)	Entry	1	1	A	68	17	1061	971	0.070	70	68	0.0	0.1	5.503
				B	222	55	1061	973	0.228	222	228	0.2	0.3	4.892
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	96	24	1061	972	0.099	97	91	0.1	0.1	4.729
				C	508	127	1061	973	0.522	510	521	0.9	1.1	9.259
				D	2	0.54	403	368	0.006	2	2	0.0	0.0	8.500

16:30 - 16:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	30	7	958	611	0.048	30	31	0.0	0.0	6.475
				C	17	4	938	594	0.028	17	17	0.0	0.0	5.845
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	11	3	938	600	0.018	11	13	0.0	0.0	6.092
				D	87	22	958	610	0.142	88	92	0.2	0.1	7.414
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	30	7	-	-	-	30	31	0.0	0.0	0.000
				C	28	7	-	-	-	28	30	0.0	0.0	0.000
				D	87	22	-	-	-	87	92	0.0	0.0	0.024
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	303	76	870	689	0.439	303	306	0.8	0.6	7.759
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	202	51	870	688	0.294	203	205	0.4	0.2	6.012
			4	A	36	9	870	689	0.052	36	33	0.0	0.0	7.565
				B	4	1	453	356	0.011	4	3	0.0	0.0	7.749
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	183	46	870	689	0.265	183	191	0.4	0.2	6.039
		2	1	A	18	5	-	-	-	18	16	0.0	0.0	0.385
				B	2	0.42	-	-	-	2	1	0.0	0.0	0.000
				C	146	37	-	-	-	146	150	0.0	0.1	2.090
				D	193	48	-	-	-	193	198	0.1	0.0	0.616
			2	A	18	4	-	-	-	18	17	0.0	0.0	0.630
				B	2	0.60	-	-	-	2	1	0.0	0.0	0.000
				C	157	39	-	-	-	157	156	0.1	0.1	1.968
				D	193	48	-	-	-	192	197	0.0	0.1	0.633
C - Cyfarthfa Retail Park South	Entry	1	1	A	16	4	877	716	0.022	16	15	0.0	0.0	7.033
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	404	101	877	718	0.563	405	406	1.0	0.7	7.229
			2	A	11	3	842	688	0.016	11	9	0.0	0.0	7.219
				B	174	44	877	720	0.242	175	171	0.4	0.4	8.483
				C	25	6	877	718	0.035	25	26	0.0	0.1	7.648
				D	301	75	877	718	0.419	299	307	0.6	0.7	7.514
		2	1	A	27	7	-	-	-	27	24	0.0	0.0	3.282
				B	175	44	-	-	-	174	172	0.2	0.2	5.177
				C	25	6	-	-	-	25	26	0.0	0.0	4.664
				D	706	177	-	-	-	705	713	0.4	0.7	3.906
D - Swansea Road (W)	Entry	1	1	A	62	16	1061	968	0.064	62	64	0.1	0.1	5.174
				B	220	55	1061	967	0.227	220	222	0.3	0.3	4.789
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	84	21	1061	968	0.087	84	94	0.1	0.1	4.800
				C	526	132	1061	966	0.544	520	513	1.1	1.8	8.987
				D	1	0.30	382	350	0.003	1	2	0.0	0.0	11.043

16:45 - 17:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	29	7	938	664	0.044	29	26	0.0	0.0	6.393
				C	15	4	958	669	0.022	15	16	0.0	0.0	4.938
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	10	3	938	662	0.016	10	12	0.0	0.0	5.675
				D	73	18	958	673	0.109	74	76	0.1	0.1	6.058
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	29	7	-	-	-	29	25	0.0	0.0	0.117
				C	25	6	-	-	-	25	29	0.0	0.0	0.000
				D	73	18	-	-	-	73	76	0.0	0.0	0.036
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	244	61	870	722	0.337	243	247	0.6	0.4	6.474
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	163	41	870	722	0.227	165	167	0.2	0.1	5.426
			4	A	25	6	870	726	0.035	25	27	0.0	0.0	6.485
				B	1	0.36	279	226	0.006	2	2	0.0	0.0	6.388
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	156	39	870	722	0.216	157	159	0.2	0.2	5.649
		2	1	A	12	3	-	-	-	12	14	0.0	0.0	0.159
				B	0.72	0.18	-	-	-	0.72	0.88	0.0	0.0	0.233
				C	120	30	-	-	-	120	122	0.1	0.0	0.723
				D	168	42	-	-	-	168	165	0.0	0.0	0.074
			2	A	14	3	-	-	-	14	13	0.0	0.0	0.112
				B	0.72	0.18	-	-	-	0.72	0.80	0.0	0.0	0.000
				C	124	31	-	-	-	124	124	0.1	0.0	0.593
				D	152	38	-	-	-	152	161	0.1	0.0	0.080
C - Cyfarthfa Retail Park South	Entry	1	1	A	12	3	825	698	0.018	12	11	0.0	0.0	5.986
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	315	79	877	746	0.423	315	334	0.7	0.5	6.383
			2	A	8	2	667	565	0.014	8	6	0.0	0.0	6.678
				B	137	34	877	744	0.184	135	136	0.4	0.4	7.452
				C	23	6	877	743	0.031	24	20	0.1	0.0	7.373
				D	258	65	877	745	0.346	258	268	0.7	0.5	6.613
		2	1	A	20	5	-	-	-	20	18	0.0	0.0	1.734
				B	137	34	-	-	-	137	135	0.2	0.1	1.825
				C	23	6	-	-	-	23	20	0.0	0.0	1.568
				D	577	144	-	-	-	573	600	0.7	0.4	1.143
D - Swansea Road (W)	Entry	1	1	A	57	14	1061	990	0.057	57	52	0.1	0.0	4.040
				B	181	45	1061	988	0.184	180	177	0.3	0.3	4.284
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	84	21	1061	988	0.085	83	84	0.1	0.1	4.330
				C	418	104	1061	987	0.423	417	425	1.8	0.9	7.081
				D	2	0.60	467	434	0.006	2	2	0.0	0.0	9.488

17:00 - 17:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	19	5	958	721	0.027	19	21	0.0	0.0	5.619
				C	10	3	804	605	0.017	11	11	0.0	0.0	5.308
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	9	2	862	646	0.014	9	10	0.0	0.0	6.107
				D	60	15	958	722	0.082	60	67	0.1	0.1	5.819
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	19	5	-	-	-	19	21	0.0	0.0	0.000
				C	19	5	-	-	-	19	21	0.0	0.0	0.000
				D	60	15	-	-	-	60	67	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	207	52	870	748	0.277	206	206	0.4	0.3	6.032
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	133	33	870	748	0.178	132	134	0.1	0.2	5.410
			4	A	18	5	853	733	0.025	18	22	0.0	0.0	6.376
				B	2	0.42	244	209	0.008	2	1	0.0	0.0	7.816
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	134	33	870	748	0.179	135	130	0.2	0.1	4.982
		2	1	A	10	2	-	-	-	10	11	0.0	0.0	0.019
				B	0.48	0.12	-	-	-	0.48	0.48	0.0	0.0	0.000
				C	105	26	-	-	-	105	101	0.0	0.0	0.402
				D	130	32	-	-	-	130	129	0.0	0.0	0.047
			2	A	9	2	-	-	-	9	11	0.0	0.0	0.055
				B	1	0.30	-	-	-	1	0.80	0.0	0.0	0.000
				C	102	26	-	-	-	102	105	0.0	0.0	0.412
				D	137	34	-	-	-	137	135	0.0	0.0	0.024
C - Cyfarthfa Retail Park South	Entry	1	1	A	7	2	737	643	0.010	7	8	0.0	0.0	6.321
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	271	68	877	771	0.351	270	275	0.5	0.5	6.025
			2	A	9	2	702	617	0.015	10	7	0.0	0.0	5.727
				B	117	29	877	772	0.152	118	119	0.4	0.2	6.970
				C	21	5	877	772	0.027	21	18	0.0	0.0	6.470
				D	224	56	877	771	0.291	223	224	0.5	0.3	5.693
		2	1	A	16	4	-	-	-	16	16	0.0	0.0	0.270
				B	117	29	-	-	-	117	118	0.1	0.0	0.956
				C	21	5	-	-	-	21	18	0.0	0.0	0.735
				D	495	124	-	-	-	495	498	0.4	0.0	0.486
D - Swansea Road (W)	Entry	1	1	A	47	12	1061	999	0.047	46	44	0.0	0.1	4.126
				B	128	32	1061	999	0.128	128	137	0.3	0.2	4.157
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	82	20	1061	1000	0.082	82	77	0.1	0.1	3.804
				C	353	88	1061	999	0.353	351	349	0.9	0.6	5.764
				D	0.72	0.18	318	300	0.002	0.72	1	0.0	0.0	4.424

2026 | Observed | SAT

Data Errors and Warnings

Severity	Area	Item	Description
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Cyfarthfa Retail Park	Standard Roundabout		A, B, C, D	11.32	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	11.32	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026	Observed	SAT	ONE HOUR	12:30	14:00	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Cyfarthfa Retail Park North		ONE HOUR	✓	206	100.000
B - Swansea Road (E)		ONE HOUR	✓	481	100.000
C - Cyfarthfa Retail Park South		ONE HOUR	✓	997	100.000
D - Swansea Road (W)		ONE HOUR	✓	1057	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
From	A - Cyfarthfa Retail Park North	0	92	44	70
	B - Swansea Road (E)	25	2	183	271
	C - Cyfarthfa Retail Park South	47	171	10	769
	D - Swansea Road (W)	160	389	496	12

Vehicle Mix

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

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

	To				
From		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	0	0	0
	B - Swansea Road (E)	0	0	0	1
	C - Cyfarthfa Retail Park South	0	1	0	0
	D - Swansea Road (W)	0	1	0	0

Cyclist %

From	To		
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)
	A - Cyfarthfa Retail Park North	0	0
	B - Swansea Road (E)	0	0
	C - Cyfarthfa Retail Park South	0	0
	D - Swansea Road (W)	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - Cyfarthfa Retail Park North	8.06	0.6	A	189	284
B - Swansea Road (E)	6.75	1.0	A	448	672
C - Cyfarthfa Retail Park South	16.86	5.1	C	912	1368
D - Swansea Road (W)	8.86	3.1	A	967	1450

Main Results for each time segment

12:30 - 12:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	156	39	821	155	156	177	0.0	0.3	5.767	A
B - Swansea Road (E)	369	92	473	370	365	504	0.0	0.5	5.370	A
C - Cyfarthfa Retail Park South	765	191	295	766	747	548	0.0	1.5	6.870	A
D - Swansea Road (W)	795	199	201	797	794	859	0.0	1.2	5.570	A

12:45 - 13:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	195	49	954	196	190	215	0.3	0.4	6.502	A
B - Swansea Road (E)	438	110	555	438	440	596	0.5	0.7	5.917	A
C - Cyfarthfa Retail Park South	896	224	345	891	902	648	1.5	2.1	8.711	A
D - Swansea Road (W)	950	237	219	951	960	1017	1.2	1.6	6.612	A

13:00 - 13:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	228	57	1182	227	233	246	0.4	0.6	8.056	A
B - Swansea Road (E)	541	135	700	546	544	708	0.7	0.8	6.534	A
C - Cyfarthfa Retail Park South	1065	266	424	1079	1097	823	2.1	3.9	15.024	C
D - Swansea Road (W)	1151	288	274	1154	1168	1229	1.6	2.7	8.822	A

13:15 - 13:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	219	55	1191	220	235	249	0.6	0.4	8.032	A
B - Swansea Road (E)	543	136	686	542	547	725	0.8	1.0	6.751	A
C - Cyfarthfa Retail Park South	1091	273	422	1093	1098	806	3.9	5.1	16.856	C
D - Swansea Road (W)	1172	293	279	1160	1169	1236	2.7	3.1	8.860	A

13:30 - 13:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	187	47	965	187	196	216	0.4	0.3	6.650	A
B - Swansea Road (E)	441	110	553	438	445	600	1.0	0.9	5.982	A
C - Cyfarthfa Retail Park South	911	228	348	909	917	643	5.1	2.1	9.782	A
D - Swansea Road (W)	952	238	232	950	960	1024	3.1	1.9	6.602	A

13:45 - 14:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	151	38	797	152	162	169	0.3	0.3	5.897	A
B - Swansea Road (E)	357	89	459	358	362	491	0.9	0.5	5.584	A
C - Cyfarthfa Retail Park South	744	186	281	745	747	535	2.1	1.5	6.783	A
D - Swansea Road (W)	781	195	189	777	800	837	1.9	1.5	5.873	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

12:30 - 12:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	85	680	0.125	84	85	0.0	0.2	5.765	A
			2	A, C, D	71	680	0.104	71	71	0.0	0.1	5.739	A
		2	1	(A, B, C, D)	156			156	157	0.0	0.0	0.014	A
	Exit	1	1		177			177	177	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	135	741	0.182	137	137	0.0	0.2	5.695	A
			3	D	108	741	0.146	108	106	0.0	0.2	5.016	A
			4	A, B, D	125	741	0.169	125	121	0.0	0.1	5.049	A
		2	1	(A, B, C, D)	187			187	184	0.0	0.0	0.084	A
			2	(A, B, C, D)	182			182	183	0.0	0.0	0.087	A
	Exit	1	1		504			504	492	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	345	786	0.439	346	337	0.0	0.5	5.941	A
			2	A, B, C, D	420	786	0.534	420	410	0.0	0.8	6.254	A
		2	1	(A, B, C, D)	765			765	752	0.0	0.2	0.758	A
	Exit	1	1		548			548	548	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	300	989	0.304	302	302	0.0	0.3	4.606	A
			2	B, C, D	494	989	0.500	495	492	0.0	0.9	6.157	A
	Exit	1	1		859			859	846	0.0	0.0	0.000	A

12:45 - 13:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	111	636	0.174	112	106	0.2	0.2	6.732	A
			2	A, C, D	84	636	0.132	84	84	0.1	0.2	6.174	A
		2	1	(A, B, C, D)	195			195	191	0.0	0.0	0.016	A
	Exit	1	1		215			215	212	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	167	719	0.233	167	171	0.2	0.3	6.125	A
			3	D	128	719	0.178	129	126	0.2	0.1	5.480	A
			4	A, B, D	143	719	0.199	142	143	0.1	0.3	5.593	A
		2	1	(A, B, C, D)	224			224	223	0.0	0.0	0.146	A
			2	(A, B, C, D)	214			214	218	0.0	0.0	0.152	A
	Exit	1	1		596			596	592	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	416	771	0.539	414	416	0.5	0.8	6.430	A
			2	A, B, C, D	477	771	0.619	477	486	0.8	0.9	6.935	A
		2	1	(A, B, C, D)	896			893	903	0.2	0.4	2.008	A
	Exit	1	1		648			648	669	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	381	983	0.388	382	374	0.3	0.6	5.192	A
			2	B, C, D	568	983	0.578	570	586	0.9	1.0	7.516	A
	Exit	1	1		1017			1017	1020	0.0	0.0	0.000	A

13:00 - 13:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	126	559	0.226	126	131	0.2	0.3	8.153	A
			2	A, C, D	102	559	0.182	101	102	0.2	0.3	7.758	A
		2	1	(A, B, C, D)	228			228	234	0.0	0.0	0.075	A
	Exit	1	1		246			246	252	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	211	679	0.310	212	210	0.3	0.3	6.492	A
			3	D	156	679	0.230	157	156	0.1	0.2	5.756	A
			4	A, B, D	176	679	0.259	177	178	0.3	0.3	6.248	A
		2	1	(A, B, C, D)	275			276	273	0.0	0.0	0.340	A
			2	(A, B, C, D)	266			267	272	0.0	0.0	0.323	A
	Exit	1	1		708			708	729	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	490	746	0.656	492	502	0.8	0.9	7.405	A
			2	A, B, C, D	586	746	0.785	587	596	0.9	1.2	7.952	A
		2	1	(A, B, C, D)	1065			1076	1099	0.4	1.9	7.306	A
	Exit	1	1		823			823	821	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	461	963	0.479	461	472	0.6	0.8	6.554	A
			2	B, C, D	690	963	0.716	693	696	1.0	1.9	10.349	B
	Exit	1	1		1229			1229	1240	0.0	0.0	0.000	A

13:15 - 13:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	122	556	0.220	122	129	0.3	0.3	8.276	A
			2	A, C, D	97	556	0.175	97	106	0.3	0.2	7.657	A
		2	1	(A, B, C, D)	219			219	234	0.0	0.0	0.036	A
	Exit	1	1		249			249	255	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	205	683	0.301	205	207	0.3	0.4	7.088	A
			3	D	163	683	0.239	163	162	0.2	0.2	5.698	A
			4	A, B, D	174	683	0.254	173	179	0.3	0.3	6.192	A
		2	1	(A, B, C, D)	275			274	274	0.0	0.0	0.337	A
			2	(A, B, C, D)	268			268	274	0.0	0.1	0.388	A
	Exit	1	1		725			725	728	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	505	747	0.677	505	503	0.9	1.0	7.440	A
			2	A, B, C, D	590	747	0.790	588	595	1.2	1.4	8.173	A
		2	1	(A, B, C, D)	1091			1095	1100	1.9	2.7	9.022	A
	Exit	1	1		806			806	816	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	471	961	0.490	468	472	0.8	1.0	6.591	A
			2	B, C, D	701	961	0.729	692	697	1.9	2.1	10.394	B
	Exit	1	1		1236			1236	1250	0.0	0.0	0.000	A

13:30 - 13:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	109	632	0.172	109	108	0.3	0.2	6.943	A
			2	A, C, D	78	632	0.124	78	87	0.2	0.1	6.083	A
		2	1	(A, B, C, D)	187			187	195	0.0	0.0	0.091	A
	Exit	1	1		216			216	217	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	161	719	0.224	159	169	0.4	0.4	6.204	A
			3	D	132	719	0.183	130	129	0.2	0.3	5.423	A
			4	A, B, D	148	719	0.206	148	147	0.3	0.2	5.740	A
		2	1	(A, B, C, D)	216			216	222	0.0	0.0	0.154	A
			2	(A, B, C, D)	225			225	223	0.1	0.0	0.162	A
	Exit	1	1		600			600	601	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	416	770	0.540	415	422	1.0	0.8	6.586	A
			2	A, B, C, D	494	770	0.641	494	496	1.4	0.9	7.235	A
		2	1	(A, B, C, D)	911			910	915	2.7	0.4	2.860	A
	Exit	1	1		643			643	663	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	376	978	0.384	376	379	1.0	0.5	5.385	A
			2	B, C, D	576	978	0.589	574	581	2.1	1.4	7.393	A
	Exit	1	1		1024			1024	1037	0.0	0.0	0.000	A

13:45 - 14:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	83	689	0.120	84	90	0.2	0.2	6.025	A
			2	A, C, D	69	689	0.100	69	71	0.1	0.1	5.708	A
		2	1	(A, B, C, D)	151			151	161	0.0	0.0	0.012	A
	Exit	1	1		169			169	171	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	134	745	0.180	135	137	0.4	0.1	5.931	A
			3	D	107	745	0.144	107	108	0.3	0.1	4.995	A
			4	A, B, D	115	745	0.155	115	118	0.2	0.2	5.347	A
		2	1	(A, B, C, D)	179			179	182	0.0	0.0	0.122	A
			2	(A, B, C, D)	178			178	179	0.0	0.0	0.115	A
	Exit	1	1		491			491	503	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	338	791	0.428	338	338	0.8	0.6	5.812	A
			2	A, B, C, D	405	791	0.512	407	409	0.9	0.7	6.276	A
		2	1	(A, B, C, D)	744			743	745	0.4	0.2	0.735	A
	Exit	1	1		535			535	554	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	304	994	0.306	302	307	0.5	0.4	4.688	A
			2	B, C, D	478	994	0.481	475	493	1.4	1.0	6.610	A
	Exit	1	1		837			837	843	0.0	0.0	0.000	A

Lane movements: Main Results for each time segment

12:30 - 12:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	69	17	958	681	0.102	69	68	0.0	0.1	5.888
				C	16	4	945	673	0.023	15	16	0.0	0.0	5.259
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
		2	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	18	5	958	685	0.026	18	17	0.0	0.0	5.355
				D	53	13	958	680	0.078	53	54	0.0	0.1	5.864
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	69	17	-	-	-	69	69	0.0	0.0	0.000
				C	34	8	-	-	-	34	34	0.0	0.0	0.000
				D	53	13	-	-	-	53	54	0.0	0.0	0.040
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	135	34	870	742	0.182	137	137	0.0	0.2	5.695
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	108	27	870	742	0.146	108	106	0.0	0.2	5.016
		2	4	A	22	5	870	741	0.030	22	19	0.0	0.0	5.266
				B	2	0.47	344	296	0.006	2	2	0.0	0.0	6.067
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	101	25	870	743	0.136	101	100	0.0	0.1	4.986
			1	A	12	3	-	-	-	12	10	0.0	0.0	0.000
				B	1	0.36	-	-	-	1	1	0.0	0.0	0.000
				C	69	17	-	-	-	68	68	0.0	0.0	0.210
				D	105	26	-	-	-	105	105	0.0	0.0	0.011
C - Cyfarthfa Retail Park South	Entry	1	1	A	20	5	877	789	0.026	20	20	0.0	0.0	6.070
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	325	81	877	786	0.413	326	317	0.0	0.5	5.933
			2	A	16	4	866	779	0.021	16	16	0.0	0.0	6.289
				B	135	34	877	787	0.172	135	129	0.0	0.3	6.929
				C	6	1	692	622	0.009	6	7	0.0	0.0	7.457
				D	263	66	877	787	0.334	262	259	0.0	0.5	5.889
		2	1	A	37	9	-	-	-	37	36	0.0	0.0	0.555
				B	135	34	-	-	-	135	130	0.0	0.1	1.192
				C	6	1	-	-	-	6	7	0.0	0.0	0.836
				D	588	147	-	-	-	588	580	0.0	0.1	0.672
D - Swansea Road (W)	Entry	1	1	A	118	30	1061	990	0.119	119	122	0.0	0.1	4.907
				B	182	46	1061	991	0.184	183	180	0.0	0.2	4.399
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	115	29	1061	991	0.116	115	114	0.0	0.2	4.551
				C	371	93	1061	990	0.375	372	370	0.0	0.7	6.636
				D	8	2	935	875	0.009	9	9	0.0	0.0	6.491

12:45 - 13:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	90	22	958	639	0.140	90	87	0.1	0.1	6.875
				C	21	5	932	614	0.034	21	20	0.0	0.0	6.104
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	20	5	945	623	0.032	20	20	0.0	0.0	5.312
				D	64	16	958	639	0.101	64	63	0.1	0.2	6.452
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	90	22	-	-	-	90	87	0.0	0.0	0.026
				C	41	10	-	-	-	41	40	0.0	0.0	0.000
				D	64	16	-	-	-	64	64	0.0	0.0	0.014
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	167	42	870	718	0.233	167	171	0.2	0.3	6.125
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	128	32	870	718	0.179	129	126	0.2	0.1	5.480
			4	A	21	5	859	707	0.029	20	21	0.0	0.1	5.915
				B	2	0.47	321	266	0.007	2	2	0.0	0.0	4.336
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	120	30	870	719	0.167	120	121	0.1	0.2	5.555
		2	1	A	11	3	-	-	-	11	11	0.0	0.0	0.041
				B	0.95	0.24	-	-	-	0.95	1	0.0	0.0	0.000
				C	84	21	-	-	-	84	87	0.0	0.0	0.336
				D	129	32	-	-	-	129	124	0.0	0.0	0.022
			2	A	10	2	-	-	-	10	10	0.0	0.0	0.000
				B	0.95	0.24	-	-	-	0.95	0.89	0.0	0.0	0.123
				C	83	21	-	-	-	83	85	0.0	0.0	0.349
				D	120	30	-	-	-	120	122	0.0	0.0	0.025
C - Cyfarthfa Retail Park South	Entry	1	1	A	24	6	877	772	0.031	24	24	0.0	0.0	6.549
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	392	98	877	771	0.508	390	392	0.5	0.8	6.423
			2	A	17	4	877	772	0.022	16	18	0.0	0.0	6.475
				B	149	37	877	770	0.194	148	151	0.3	0.4	7.575
				C	7	2	773	683	0.010	7	8	0.0	0.0	8.273
				D	304	76	877	771	0.394	305	308	0.5	0.4	6.618
D - Swansea Road (W)	Entry	1	1	A	41	10	-	-	-	41	43	0.0	0.0	1.724
				B	150	38	-	-	-	149	151	0.1	0.1	2.597
				C	7	2	-	-	-	7	8	0.0	0.0	2.974
				D	698	175	-	-	-	696	701	0.1	0.3	1.889
			2	A	154	38	1061	983	0.156	154	148	0.1	0.3	5.593
				B	228	57	1061	982	0.232	228	225	0.2	0.3	4.925
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000

13:00 - 13:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	101	25	958	560	0.181	100	106	0.1	0.3	8.497
				C	25	6	958	552	0.045	26	25	0.0	0.1	6.710
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	24	6	945	547	0.043	24	25	0.0	0.0	6.557
				D	78	20	958	555	0.141	77	77	0.2	0.3	8.147
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	101	25	-	-	-	101	106	0.0	0.0	0.101
				C	49	12	-	-	-	49	50	0.0	0.0	0.069
				D	78	20	-	-	-	78	77	0.0	0.0	0.044
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	211	53	870	677	0.311	212	210	0.3	0.3	6.492
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	156	39	870	679	0.230	157	156	0.1	0.2	5.756
			4	A	26	6	870	680	0.038	25	27	0.1	0.0	6.349
				B	3	0.83	366	289	0.011	3	2	0.0	0.0	6.875
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	147	37	870	679	0.216	149	149	0.2	0.3	6.220
		2	1	A	13	3	-	-	-	13	13	0.0	0.0	0.097
				B	2	0.47	-	-	-	2	1	0.0	0.0	0.000
				C	105	26	-	-	-	106	103	0.0	0.0	0.746
				D	155	39	-	-	-	155	156	0.0	0.0	0.091
			2	A	13	3	-	-	-	13	13	0.0	0.0	0.514
				B	1	0.36	-	-	-	1	1	0.0	0.0	0.000
				C	104	26	-	-	-	105	107	0.0	0.0	0.626
				D	148	37	-	-	-	148	150	0.0	0.0	0.089
C - Cyfarthfa Retail Park South	Entry	1	1	A	26	7	877	746	0.035	26	26	0.0	0.1	7.265
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	464	116	877	746	0.622	466	476	0.8	0.8	7.413
			2	A	21	5	877	749	0.028	21	22	0.0	0.0	7.160
				B	185	46	877	746	0.248	185	190	0.4	0.4	8.738
				C	14	3	831	707	0.019	14	13	0.0	0.1	8.469
				D	366	91	877	746	0.490	368	371	0.4	0.7	7.583
		2	1	A	48	12	-	-	-	47	48	0.0	0.1	7.127
				B	181	45	-	-	-	185	190	0.1	0.3	8.227
				C	13	3	-	-	-	14	13	0.0	0.0	7.949
				D	823	206	-	-	-	830	848	0.3	1.4	7.103
D - Swansea Road (W)	Entry	1	1	A	175	44	1061	963	0.182	174	177	0.3	0.4	7.253
				B	286	72	1061	963	0.297	287	296	0.3	0.3	6.130
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	133	33	1061	964	0.138	133	135	0.1	0.2	6.067
				C	545	136	1061	963	0.565	548	548	0.9	1.7	11.369
				D	11	3	1033	936	0.012	12	12	0.0	0.0	11.407

13:15 - 13:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	97	24	958	556	0.175	98	104	0.3	0.2	8.603
				C	25	6	945	551	0.045	25	24	0.1	0.0	6.880
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	25	6	958	558	0.044	25	25	0.0	0.1	7.080
				D	72	18	958	556	0.130	73	81	0.3	0.1	7.841
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	97	24	-	-	-	97	104	0.0	0.0	0.054
				C	49	12	-	-	-	49	50	0.0	0.0	0.019
				D	72	18	-	-	-	72	80	0.0	0.0	0.022
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	205	51	870	682	0.301	205	207	0.3	0.4	7.088
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	163	41	870	683	0.239	163	162	0.2	0.2	5.698
			4	A	25	6	870	680	0.037	26	28	0.0	0.0	7.298
				B	2	0.47	458	359	0.005	2	3	0.0	0.0	6.035
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	147	37	870	683	0.215	146	148	0.3	0.3	5.987
		2	1	A	12	3	-	-	-	12	14	0.0	0.0	0.030
				B	1	0.36	-	-	-	1	2	0.0	0.0	0.000
				C	102	26	-	-	-	102	104	0.0	0.0	0.753
				D	159	40	-	-	-	159	155	0.0	0.0	0.085
			2	A	13	3	-	-	-	13	14	0.0	0.0	0.104
				B	0.47	0.12	-	-	-	0.47	1	0.0	0.0	0.407
				C	103	26	-	-	-	103	103	0.0	0.1	0.838
				D	151	38	-	-	-	151	155	0.0	0.0	0.110
C - Cyfarthfa Retail Park South	Entry	1	1	A	31	8	877	744	0.042	31	27	0.1	0.1	7.105
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	474	119	877	747	0.635	473	476	0.8	1.0	7.459
			2	A	21	5	877	745	0.028	21	22	0.0	0.1	7.679
				B	190	48	877	747	0.255	189	190	0.4	0.6	8.877
				C	11	3	843	714	0.015	11	12	0.1	0.0	8.807
				D	368	92	877	747	0.493	368	371	0.7	0.7	7.824
		2	1	A	52	13	-	-	-	52	50	0.1	0.1	8.993
				B	188	47	-	-	-	190	191	0.3	0.4	10.272
				C	11	3	-	-	-	11	12	0.0	0.1	9.004
				D	839	210	-	-	-	842	848	1.4	2.1	8.746
D - Swansea Road (W)	Entry	1	1	A	172	43	1061	961	0.179	171	179	0.4	0.4	7.107
				B	300	75	1061	962	0.312	297	294	0.3	0.6	6.278
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	139	35	1061	960	0.145	139	137	0.2	0.2	6.177
				C	549	137	1061	961	0.571	541	547	1.7	1.8	11.411
				D	13	3	1005	908	0.014	13	13	0.0	0.1	11.582

13:30 - 13:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	88	22	958	635	0.139	88	88	0.2	0.2	7.179
				C	20	5	958	637	0.032	21	20	0.0	0.0	5.901
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	19	5	958	632	0.030	19	20	0.1	0.0	5.717
				D	59	15	958	631	0.094	59	67	0.1	0.1	6.194
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	88	22	-	-	-	88	88	0.0	0.0	0.151
				C	39	10	-	-	-	39	40	0.0	0.0	0.042
				D	59	15	-	-	-	59	67	0.0	0.0	0.040
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	161	40	870	718	0.224	159	169	0.4	0.4	6.204
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
B - Swansea Road (E)	Entry			C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	132	33	870	719	0.183	130	129	0.2	0.3	5.423
			4	A	27	7	870	717	0.038	27	25	0.0	0.1	6.759
				B	1	0.32	286	233	0.005	1	2	0.0	0.0	6.391
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	120	30	870	717	0.167	120	120	0.3	0.1	5.517
		2	1	A	13	3	-	-	-	13	12	0.0	0.0	0.161
				B	0.47	0.12	-	-	-	0.47	0.89	0.0	0.0	0.000
				C	78	20	-	-	-	78	84	0.0	0.0	0.322
				D	124	31	-	-	-	124	125	0.0	0.0	0.041
			2	A	14	4	-	-	-	14	13	0.0	0.0	0.017
				B	0.79	0.20	-	-	-	0.79	0.95	0.0	0.0	0.000
				C	83	21	-	-	-	83	85	0.1	0.0	0.353
				D	127	32	-	-	-	127	124	0.0	0.0	0.046
C - Cyfarthfa Retail Park South	Entry	1	1	A	25	6	877	771	0.033	25	24	0.1	0.1	6.496
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	391	98	877	769	0.508	390	397	1.0	0.7	6.592
			2	A	19	5	866	758	0.025	19	19	0.1	0.0	6.252
				B	152	38	877	768	0.197	152	154	0.6	0.3	7.946
				C	9	2	750	654	0.014	9	10	0.0	0.0	8.756
				D	314	79	877	770	0.408	314	313	0.7	0.6	6.903
		2	1	A	44	11	-	-	-	44	43	0.1	0.0	3.206
				B	150	38	-	-	-	152	153	0.4	0.0	3.671
				C	9	2	-	-	-	9	9	0.1	0.0	4.050
				D	707	177	-	-	-	705	708	2.1	0.3	2.650
D - Swansea Road (W)	Entry	1	1	A	146	37	1061	979	0.150	146	149	0.4	0.3	5.840
				B	230	57	1061	978	0.235	230	230	0.6	0.2	5.084
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	128	32	1061	978	0.131	129	127	0.2	0.2	5.136
				C	438	109	1061	979	0.447	435	444	1.8	1.2	7.994
				D	10	3	991	915	0.011	10	10	0.1	0.0	9.045

13:45 - 14:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	68	17	958	687	0.099	69	74	0.2	0.1	5.985
				C	14	4	945	668	0.022	15	16	0.0	0.0	6.210
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	18	5	958	684	0.027	18	18	0.0	0.0	5.298
				D	50	13	958	688	0.073	51	53	0.1	0.1	5.847
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	68	17	-	-	-	68	74	0.0	0.0	0.014
				C	33	8	-	-	-	33	34	0.0	0.0	0.000
				D	50	13	-	-	-	50	53	0.0	0.0	0.017
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	134	34	870	746	0.180	135	137	0.4	0.1	5.931
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	107	27	870	745	0.144	107	108	0.3	0.1	4.995
			4	A	18	5	859	733	0.025	18	18	0.1	0.0	5.259
				B	0.95	0.24	263	223	0.004	0.95	1	0.0	0.0	5.181
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	96	24	870	745	0.129	96	98	0.1	0.2	5.366
		2	1	A	10	3	-	-	-	10	9	0.0	0.0	0.000
				B	0.63	0.16	-	-	-	0.63	0.68	0.0	0.0	0.000
				C	66	17	-	-	-	67	68	0.0	0.0	0.291
				D	102	25	-	-	-	102	103	0.0	0.0	0.021
			2	A	8	2	-	-	-	8	9	0.0	0.0	0.139
				B	0.32	0.08	-	-	-	0.32	0.74	0.0	0.0	0.000
				C	68	17	-	-	-	68	68	0.0	0.0	0.255
				D	102	25	-	-	-	102	102	0.0	0.0	0.019
C - Cyfarthfa Retail Park South	Entry	1	1	A	16	4	854	770	0.021	17	17	0.1	0.0	6.175
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	322	81	877	791	0.408	321	321	0.7	0.6	5.792
			2	A	15	4	866	782	0.019	15	16	0.0	0.0	5.957
				B	130	32	877	791	0.164	130	131	0.3	0.2	7.036
				C	8	2	773	693	0.012	8	8	0.0	0.0	5.928
				D	252	63	877	791	0.319	254	254	0.6	0.4	5.918
		2	1	A	31	8	-	-	-	31	33	0.0	0.0	0.580
				B	129	32	-	-	-	130	130	0.0	0.0	1.199
				C	8	2	-	-	-	8	8	0.0	0.0	1.033
				D	576	144	-	-	-	575	574	0.3	0.2	0.635
D - Swansea Road (W)	Entry	1	1	A	120	30	1061	994	0.121	119	120	0.3	0.2	5.158
				B	184	46	1061	994	0.185	183	187	0.2	0.2	4.386
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	109	27	1061	993	0.110	108	109	0.2	0.1	4.455
				C	360	90	1061	994	0.362	359	374	1.2	0.9	7.226
				D	8	2	907	849	0.010	8	10	0.0	0.0	6.976

2030 | Dev Scenario | AM

Data Errors and Warnings

Severity	Area	Item	Description
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Cyfarthfa Retail Park	Standard Roundabout		A, B, C, D	7.31	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.31	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2030	Dev Scenario	AM	ONE HOUR	08:00	09:30	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Cyfarthfa Retail Park North		ONE HOUR	✓	131	100.000
B - Swansea Road (E)		ONE HOUR	✓	557	100.000
C - Cyfarthfa Retail Park South		ONE HOUR	✓	450	100.000
D - Swansea Road (W)		ONE HOUR	✓	1037	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
From				
A - Cyfarthfa Retail Park North	0	44	20	66
B - Swansea Road (E)	31	4	221	300
C - Cyfarthfa Retail Park South	16	88	31	315
D - Swansea Road (W)	93	457	485	2

Vehicle Mix

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

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

	To				
From		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	0	0	0
	B - Swansea Road (E)	0	0	1	4
	C - Cyfarthfa Retail Park South	0	2	6	2
	D - Swansea Road (W)	0	2	1	0

Cyclist %

From	To		
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)
	A - Cyfarthfa Retail Park North	0	0
	B - Swansea Road (E)	0	0
	C - Cyfarthfa Retail Park South	0	0
	D - Swansea Road (W)	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - Cyfarthfa Retail Park North	7.36	0.3	A	121	182
B - Swansea Road (E)	7.27	1.5	A	509	763
C - Cyfarthfa Retail Park South	6.61	1.0	A	417	626
D - Swansea Road (W)	7.64	2.8	A	952	1429

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	102	25	805	102	99	106	0.0	0.2	5.879	A
B - Swansea Road (E)	415	104	463	415	405	443	0.0	0.7	5.478	A
C - Cyfarthfa Retail Park South	332	83	295	332	332	583	0.0	0.5	5.397	A
D - Swansea Road (W)	781	195	131	781	783	497	0.0	1.2	5.200	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	122	31	949	124	127	130	0.2	0.2	6.051	A
B - Swansea Road (E)	495	124	542	497	511	531	0.7	0.9	5.960	A
C - Cyfarthfa Retail Park South	411	103	370	413	411	668	0.5	0.6	5.619	A
D - Swansea Road (W)	928	232	152	927	931	631	1.2	1.6	6.123	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	149	37	1205	148	155	138	0.2	0.3	7.361	A
B - Swansea Road (E)	615	154	687	610	609	666	0.9	1.5	7.182	A
C - Cyfarthfa Retail Park South	517	129	438	516	508	859	0.6	0.9	6.368	A
D - Swansea Road (W)	1151	288	195	1148	1142	760	1.6	2.7	7.640	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	141	35	1159	142	142	148	0.3	0.3	7.222	A
B - Swansea Road (E)	624	156	654	626	638	646	1.5	1.3	7.268	A
C - Cyfarthfa Retail Park South	503	126	460	507	506	820	0.9	1.0	6.609	A
D - Swansea Road (W)	1124	281	191	1116	1127	776	2.7	2.8	7.501	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	113	28	969	113	122	123	0.3	0.1	6.401	A
B - Swansea Road (E)	491	123	541	489	510	542	1.3	1.0	6.180	A
C - Cyfarthfa Retail Park South	401	100	345	400	412	686	1.0	0.6	5.809	A
D - Swansea Road (W)	941	235	147	946	942	598	2.8	1.3	6.109	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	100	25	799	99	104	118	0.1	0.1	5.764	A
B - Swansea Road (E)	411	103	447	413	430	452	1.0	0.6	5.768	A
C - Cyfarthfa Retail Park South	341	85	310	340	350	550	0.6	0.7	5.319	A
D - Swansea Road (W)	790	197	126	791	799	524	1.3	1.4	5.479	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

08:00 - 08:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	41	686	0.060	42	40	0.0	0.0	5.958	A
			2	A, C, D	61	686	0.089	60	59	0.0	0.1	5.826	A
		2	1	(A, B, C, D)	102			102	100	0.0	0.0	0.000	A
	Exit	1	1		106			106	103	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	174	744	0.235	174	167	0.0	0.4	5.580	A
			3	D	110	744	0.148	111	110	0.0	0.1	4.891	A
			4	A, B, D	130	744	0.175	130	127	0.0	0.2	5.468	A
		2	1	(A, B, C, D)	209			209	207	0.0	0.0	0.133	A
			2	(A, B, C, D)	206			206	201	0.0	0.0	0.102	A
	Exit	1	1		443			443	448	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	133	786	0.170	133	130	0.0	0.2	5.048	A
			2	A, B, C, D	198	786	0.252	199	202	0.0	0.3	5.429	A
		2	1	(A, B, C, D)	332			331	334	0.0	0.0	0.117	A
	Exit	1	1		583			583	571	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	280	1014	0.276	280	286	0.0	0.3	4.332	A
			2	B, C, D	501	1014	0.494	501	497	0.0	0.9	5.696	A
	Exit	1	1		497			497	498	0.0	0.0	0.000	A

08:15 - 08:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	54	637	0.085	55	58	0.0	0.1	6.102	A
			2	A, C, D	68	637	0.107	69	70	0.1	0.1	6.009	A
		2	1	(A, B, C, D)	122			122	127	0.0	0.0	0.000	A
	Exit	1	1		130			130	129	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	189	722	0.262	188	206	0.4	0.4	6.130	A
			3	D	145	722	0.200	147	142	0.1	0.1	5.266	A
			4	A, B, D	161	722	0.223	161	163	0.2	0.3	5.572	A
		2	1	(A, B, C, D)	254			254	258	0.0	0.0	0.204	A
			2	(A, B, C, D)	241			241	253	0.0	0.0	0.287	A
	Exit	1	1		531			531	539	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	172	763	0.226	172	171	0.2	0.3	4.852	A
			2	A, B, C, D	239	763	0.313	241	240	0.3	0.3	5.703	A
		2	1	(A, B, C, D)	411			411	412	0.0	0.0	0.272	A
	Exit	1	1		668			668	687	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	336	1007	0.334	338	348	0.3	0.4	4.970	A
			2	B, C, D	592	1007	0.588	589	583	0.9	1.2	6.810	A
	Exit	1	1		631			631	626	0.0	0.0	0.000	A

08:30 - 08:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	64	551	0.116	63	64	0.1	0.1	7.402	A
			2	A, C, D	86	551	0.155	85	91	0.1	0.2	7.328	A
		2	1	(A, B, C, D)	149			149	155	0.0	0.0	0.002	A
	Exit	1	1		138			138	146	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	249	683	0.366	246	245	0.4	0.6	7.051	A
			3	D	168	683	0.246	168	169	0.1	0.4	6.022	A
			4	A, B, D	197	683	0.288	196	195	0.3	0.5	6.515	A
		2	1	(A, B, C, D)	314			313	303	0.0	0.0	0.594	A
			2	(A, B, C, D)	301			301	309	0.0	0.0	0.567	A
	Exit	1	1		666			666	665	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	215	742	0.290	214	209	0.3	0.3	5.544	A
			2	A, B, C, D	302	742	0.406	302	299	0.3	0.6	6.070	A
		2	1	(A, B, C, D)	517			517	509	0.0	0.0	0.516	A
	Exit	1	1		859			859	845	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	448	991	0.451	447	450	0.4	0.8	5.703	A
			2	B, C, D	703	991	0.709	701	691	1.2	1.9	8.898	A
	Exit	1	1		760			760	757	0.0	0.0	0.000	A

08:45 - 09:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	53	567	0.094	53	60	0.1	0.1	6.821	A
			2	A, C, D	88	567	0.155	88	83	0.2	0.2	7.463	A
		2	1	(A, B, C, D)	141			141	142	0.0	0.0	0.028	A
	Exit	1	1		148			148	153	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	248	692	0.359	247	251	0.6	0.6	7.099	A
			3	D	173	692	0.251	174	178	0.4	0.3	6.275	A
			4	A, B, D	205	692	0.296	205	210	0.5	0.4	6.493	A
		2	1	(A, B, C, D)	310			311	322	0.0	0.0	0.587	A
			2	(A, B, C, D)	314			316	315	0.0	0.0	0.602	A
	Exit	1	1		646			646	653	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	210	735	0.286	211	207	0.3	0.4	5.929	A
			2	A, B, C, D	294	735	0.400	296	299	0.6	0.5	6.232	A
		2	1	(A, B, C, D)	503			504	506	0.0	0.1	0.498	A
	Exit	1	1		820			820	832	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	428	993	0.431	425	437	0.8	0.8	5.621	A
			2	B, C, D	696	993	0.701	691	690	1.9	2.0	8.686	A
	Exit	1	1		776			776	775	0.0	0.0	0.000	A

09:00 - 09:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	51	630	0.081	51	51	0.1	0.0	6.357	A
			2	A, C, D	62	630	0.098	62	70	0.2	0.1	6.427	A
		2	1	(A, B, C, D)	113			113	121	0.0	0.0	0.004	A
	Exit	1	1		123			123	129	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	202	723	0.279	199	205	0.6	0.4	6.272	A
			3	D	137	723	0.190	137	140	0.3	0.3	5.367	A
			4	A, B, D	153	723	0.211	153	165	0.4	0.3	5.765	A
		2	1	(A, B, C, D)	253			253	253	0.0	0.0	0.310	A
			2	(A, B, C, D)	238			238	255	0.0	0.0	0.323	A
	Exit	1	1		542			542	537	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	161	771	0.209	162	171	0.4	0.1	5.105	A
			2	A, B, C, D	239	771	0.311	238	241	0.5	0.4	5.752	A
		2	1	(A, B, C, D)	401			401	410	0.1	0.0	0.328	A
	Exit	1	1		686			686	694	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	354	1009	0.351	357	356	0.8	0.4	4.858	A
			2	B, C, D	587	1009	0.582	589	585	2.0	1.0	6.869	A
	Exit	1	1		598			598	624	0.0	0.0	0.000	A

09:15 - 09:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	38	688	0.056	38	44	0.0	0.0	5.621	A
			2	A, C, D	62	688	0.090	61	60	0.1	0.1	5.870	A
		2	1	(A, B, C, D)	100			100	104	0.0	0.0	0.000	A
	Exit	1	1		118			118	109	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	157	748	0.210	158	170	0.4	0.2	5.859	A
			3	D	119	748	0.159	121	122	0.3	0.1	5.151	A
			4	A, B, D	134	748	0.179	135	138	0.3	0.2	5.451	A
		2	1	(A, B, C, D)	198			198	213	0.0	0.0	0.242	A
			2	(A, B, C, D)	213			212	216	0.0	0.1	0.240	A
	Exit	1	1		452			452	461	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	140	782	0.179	140	143	0.1	0.3	4.959	A
			2	A, B, C, D	200	782	0.256	200	208	0.4	0.4	5.319	A
		2	1	(A, B, C, D)	341			340	351	0.0	0.0	0.150	A
	Exit	1	1		550			550	578	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	302	1016	0.297	302	296	0.4	0.5	4.616	A
			2	B, C, D	488	1016	0.480	489	503	1.0	0.9	5.987	A
	Exit	1	1		524			524	536	0.0	0.0	0.000	A

Lane movements: Main Results for each time segment

08:00 - 08:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	33	8	958	682	0.049	34	32	0.0	0.0	5.666
				C	7	2	835	606	0.012	8	8	0.0	0.0	7.129
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	7	2	917	660	0.011	7	8	0.0	0.0	4.774
				D	54	13	958	684	0.078	53	51	0.0	0.1	6.000
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	33	8	-	-	-	33	32	0.0	0.0	0.000
				C	15	4	-	-	-	15	17	0.0	0.0	0.000
				D	54	13	-	-	-	54	51	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	174	44	870	743	0.235	174	167	0.0	0.4	5.580
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	110	28	870	745	0.148	111	110	0.0	0.1	4.891
			4	A	25	6	870	741	0.034	25	21	0.0	0.0	6.265
				B	5	1	556	474	0.010	5	3	0.0	0.0	4.914
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	101	25	870	744	0.135	100	103	0.0	0.2	5.321
		2	1	A	13	3	-	-	-	13	10	0.0	0.0	0.000
				B	2	0.51	-	-	-	2	2	0.0	0.0	0.000
				C	89	22	-	-	-	89	86	0.0	0.0	0.255
				D	105	26	-	-	-	105	108	0.0	0.0	0.049
			2	A	13	3	-	-	-	13	10	0.0	0.0	0.000
				B	3	0.64	-	-	-	3	2	0.0	0.0	0.000
				C	85	21	-	-	-	85	83	0.0	0.0	0.224
				D	105	26	-	-	-	105	106	0.0	0.0	0.016
C - Cyfarthfa Retail Park South	Entry	1	1	A	7	2	728	656	0.011	7	6	0.0	0.0	5.164
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	126	31	877	787	0.160	126	124	0.0	0.2	5.043
			2	A	5	1	728	657	0.008	6	6	0.0	0.0	5.381
				B	67	17	877	789	0.085	68	67	0.0	0.1	5.787
				C	20	5	877	792	0.025	20	21	0.0	0.0	6.261
				D	106	26	877	787	0.134	105	108	0.0	0.1	5.056
		2	1	A	13	3	-	-	-	13	13	0.0	0.0	0.041
				B	67	17	-	-	-	67	68	0.0	0.0	0.307
				C	20	5	-	-	-	20	21	0.0	0.0	0.156
				D	232	58	-	-	-	232	234	0.0	0.0	0.063
D - Swansea Road (W)	Entry	1	1	A	67	17	1061	1015	0.066	68	70	0.0	0.0	4.800
				B	213	53	1061	1015	0.210	212	217	0.0	0.3	4.179
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	125	31	1061	1014	0.124	125	129	0.0	0.1	4.167
				C	374	94	1061	1014	0.369	374	366	0.0	0.7	6.222
				D	2	0.38	271	258	0.006	2	1	0.0	0.0	6.473

08:15 - 08:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	44	11	958	638	0.068	44	46	0.0	0.1	6.273
				C	10	3	917	612	0.017	10	11	0.0	0.0	5.398
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	8	2	917	623	0.013	9	10	0.0	0.0	5.738
				D	60	15	958	641	0.094	60	60	0.1	0.1	6.052
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	44	11	-	-	-	44	47	0.0	0.0	0.000
				C	18	5	-	-	-	18	21	0.0	0.0	0.000
				D	60	15	-	-	-	60	60	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	189	47	870	723	0.262	188	206	0.4	0.4	6.130
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	145	36	870	722	0.200	147	142	0.1	0.1	5.266
			4	A	32	8	870	725	0.044	31	29	0.0	0.1	6.360
				B	5	1	519	428	0.011	5	4	0.0	0.0	6.636
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	125	31	870	723	0.172	125	130	0.2	0.2	5.356
		2	1	A	19	5	-	-	-	19	16	0.0	0.0	0.000
				B	2	0.57	-	-	-	2	2	0.0	0.0	0.000
				C	95	24	-	-	-	95	104	0.0	0.0	0.466
				D	138	34	-	-	-	138	136	0.0	0.0	0.027
			2	A	13	3	-	-	-	13	13	0.0	0.0	0.001
				B	3	0.64	-	-	-	3	2	0.0	0.0	0.000
				C	94	23	-	-	-	94	102	0.0	0.0	0.597
				D	131	33	-	-	-	131	136	0.0	0.0	0.082
C - Cyfarthfa Retail Park South	Entry	1	1	A	8	2	803	701	0.011	8	9	0.0	0.0	5.022
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	164	41	877	763	0.215	164	162	0.2	0.3	4.843
			2	A	9	2	765	666	0.013	9	7	0.0	0.0	5.296
				B	75	19	877	766	0.098	75	79	0.1	0.1	6.102
				C	23	6	877	761	0.030	24	25	0.0	0.0	7.376
				D	132	33	877	766	0.172	134	130	0.1	0.1	5.177
		2	1	A	17	4	-	-	-	17	16	0.0	0.0	0.059
				B	75	19	-	-	-	75	79	0.0	0.0	0.556
D - Swansea Road (W)	Entry	1	1	C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	152	38	1061	1007	0.151	151	146	0.1	0.2	4.752
				C	438	109	1061	1007	0.435	436	435	0.7	1.0	7.488
				D	2	0.51	406	386	0.005	2	2	0.0	0.0	8.148

08:30 - 08:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	52	13	958	552	0.095	51	53	0.1	0.1	7.583
				C	11	3	896	519	0.022	12	11	0.0	0.0	6.527
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	12	3	937	543	0.023	12	13	0.0	0.0	6.981
				D	73	18	958	551	0.133	72	77	0.1	0.2	7.387
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	52	13	-	-	-	52	53	0.0	0.0	0.000
				C	24	6	-	-	-	24	24	0.0	0.0	0.000
				D	73	18	-	-	-	73	78	0.0	0.0	0.005
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	249	62	870	682	0.366	246	245	0.4	0.6	7.051
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	168	42	870	682	0.246	168	169	0.1	0.4	6.022
			4	A	31	8	870	687	0.045	31	32	0.1	0.1	7.024
				B	4	1	667	532	0.008	4	5	0.0	0.0	6.396
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	161	40	870	680	0.237	161	158	0.2	0.3	6.409
		2	1	A	15	4	-	-	-	15	17	0.0	0.0	0.301
				B	2	0.57	-	-	-	2	2	0.0	0.0	1.502
				C	129	32	-	-	-	129	121	0.0	0.0	1.098
				D	167	42	-	-	-	167	163	0.0	0.0	0.228
			2	A	16	4	-	-	-	16	16	0.0	0.0	0.319
				B	2	0.51	-	-	-	2	2	0.0	0.0	0.000
				C	121	30	-	-	-	121	125	0.0	0.0	1.143
				D	163	41	-	-	-	163	166	0.0	0.0	0.154
C - Cyfarthfa Retail Park South	Entry	1	1	A	9	2	784	664	0.013	9	10	0.0	0.0	5.039
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	207	52	877	742	0.278	206	198	0.3	0.3	5.571
			2	A	7	2	784	661	0.011	7	7	0.0	0.0	5.024
				B	107	27	877	741	0.145	106	102	0.1	0.2	6.574
				C	38	10	877	740	0.051	38	38	0.0	0.1	6.636
				D	149	37	877	743	0.201	151	152	0.1	0.2	5.646
		2	1	A	16	4	-	-	-	16	18	0.0	0.0	0.275
				B	108	27	-	-	-	107	102	0.0	0.0	1.060
				C	38	10	-	-	-	38	38	0.0	0.0	0.768
				D	355	89	-	-	-	356	351	0.0	0.0	0.345
D - Swansea Road (W)	Entry	1	1	A	91	23	1061	995	0.092	91	96	0.1	0.2	6.106
				B	356	89	1061	992	0.359	356	354	0.4	0.6	5.591
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	149	37	1061	991	0.150	148	151	0.2	0.4	5.752
				C	553	138	1061	992	0.557	551	538	1.0	1.5	9.765
				D	2	0.57	564	529	0.004	2	3	0.0	0.0	11.416

08:45 - 09:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	40	10	958	572	0.071	41	48	0.1	0.1	6.898
				C	13	3	917	547	0.024	13	11	0.0	0.0	6.501
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	9	2	876	522	0.017	9	10	0.0	0.0	6.140
				D	79	20	958	574	0.138	79	73	0.2	0.2	7.648
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	40	10	-	-	-	40	48	0.0	0.0	0.019
				C	22	5	-	-	-	22	22	0.0	0.0	0.000
				D	79	20	-	-	-	79	73	0.0	0.0	0.042
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	248	62	870	692	0.359	247	251	0.6	0.6	7.099
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	173	43	870	690	0.251	174	178	0.4	0.3	6.275
			4	A	38	9	870	692	0.054	38	38	0.1	0.1	7.257
				B	4	1	463	366	0.012	4	4	0.0	0.0	8.717
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	163	41	870	694	0.235	162	168	0.3	0.3	6.259
		2	1	A	19	5	-	-	-	19	19	0.0	0.0	0.198
				B	2	0.51	-	-	-	2	2	0.0	0.0	0.049
				C	124	31	-	-	-	124	125	0.0	0.0	1.078
				D	165	41	-	-	-	166	176	0.0	0.0	0.277
			2	A	18	5	-	-	-	18	18	0.0	0.0	0.298
				B	2	0.57	-	-	-	2	2	0.0	0.0	2.393
				C	124	31	-	-	-	125	125	0.0	0.0	0.962
				D	170	42	-	-	-	170	170	0.0	0.0	0.337
C - Cyfarthfa Retail Park South	Entry	1	1	A	10	3	821	686	0.015	10	9	0.0	0.0	5.257
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	200	50	877	735	0.272	201	198	0.3	0.3	5.961
			2	A	7	2	765	642	0.012	7	8	0.0	0.0	6.214
				B	95	24	877	734	0.129	97	99	0.2	0.2	7.008
				C	34	9	877	736	0.046	34	36	0.1	0.0	7.076
				D	158	39	877	735	0.214	157	157	0.2	0.3	5.558
		2	1	A	18	4	-	-	-	18	17	0.0	0.0	0.205
				B	95	24	-	-	-	95	99	0.0	0.0	0.891
				C	34	9	-	-	-	34	36	0.0	0.0	0.880
				D	357	89	-	-	-	357	354	0.0	0.0	0.365
D - Swansea Road (W)	Entry	1	1	A	94	23	1061	993	0.094	93	98	0.2	0.2	6.177
				B	335	84	1061	993	0.337	332	339	0.6	0.6	5.456
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	174	43	1061	993	0.175	172	163	0.4	0.3	5.392
				C	520	130	1061	993	0.524	517	524	1.5	1.7	9.686
				D	2	0.57	519	485	0.005	2	2	0.0	0.0	11.207

09:00 - 09:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	40	10	958	627	0.063	40	41	0.1	0.0	6.400
				C	11	3	795	520	0.022	11	10	0.0	0.0	6.178
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	10	2	917	603	0.016	10	10	0.0	0.0	6.261
				D	52	13	958	629	0.083	52	60	0.2	0.1	6.453
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	40	10	-	-	-	40	41	0.0	0.0	0.012
				C	21	5	-	-	-	21	20	0.0	0.0	0.000
				D	52	13	-	-	-	52	60	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	202	50	870	723	0.279	199	205	0.6	0.4	6.272
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	137	34	870	721	0.190	137	140	0.3	0.3	5.367
			4	A	25	6	870	719	0.035	26	28	0.1	0.0	6.076
				B	3	0.77	500	413	0.007	3	4	0.0	0.0	7.024
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	125	31	870	722	0.172	124	133	0.3	0.2	5.660
		2	1	A	12	3	-	-	-	12	13	0.0	0.0	0.288
				B	2	0.51	-	-	-	2	2	0.0	0.0	1.701
				C	99	25	-	-	-	99	102	0.0	0.0	0.519
				D	140	35	-	-	-	140	137	0.0	0.0	0.129
			2	A	13	3	-	-	-	13	15	0.0	0.0	0.438
				B	1	0.26	-	-	-	1	1	0.0	0.0	1.458
				C	102	26	-	-	-	103	103	0.0	0.0	0.618
				D	122	30	-	-	-	122	135	0.0	0.0	0.066
C - Cyfarthfa Retail Park South	Entry	1	1	A	7	2	784	682	0.010	7	9	0.0	0.0	4.936
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	154	39	877	770	0.200	155	162	0.3	0.1	5.114
			2	A	9	2	709	616	0.015	9	8	0.0	0.0	4.758
				B	75	19	877	771	0.097	74	79	0.2	0.1	6.175
				C	27	7	877	768	0.036	27	28	0.0	0.0	6.055
				D	128	32	877	770	0.166	127	127	0.3	0.2	5.486
		2	1	A	16	4	-	-	-	16	16	0.0	0.0	0.182
				B	75	19	-	-	-	75	78	0.0	0.0	0.587
				C	27	7	-	-	-	27	28	0.0	0.0	0.501
				D	282	70	-	-	-	282	288	0.0	0.0	0.250
D - Swansea Road (W)	Entry	1	1	A	80	20	1061	1008	0.079	81	85	0.2	0.1	5.179
				B	274	69	1061	1008	0.272	277	272	0.6	0.3	4.755
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	146	37	1061	1008	0.145	148	142	0.3	0.1	4.813
				C	438	109	1061	1008	0.434	438	441	1.7	0.8	7.536
				D	3	0.77	474	451	0.007	3	2	0.0	0.0	5.238

09:15 - 09:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	33	8	958	689	0.047	33	36	0.0	0.0	5.599
				C	6	1	835	590	0.010	6	8	0.0	0.0	5.720
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	7	2	835	591	0.012	7	8	0.0	0.0	6.129
				D	55	14	958	691	0.079	54	52	0.1	0.1	5.830
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	33	8	-	-	-	33	36	0.0	0.0	0.000
				C	13	3	-	-	-	13	16	0.0	0.0	0.000
				D	55	14	-	-	-	55	52	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	157	39	870	748	0.210	158	170	0.4	0.2	5.859
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	119	30	870	750	0.159	121	122	0.3	0.1	5.151
			4	A	26	7	870	747	0.035	27	24	0.0	0.0	6.231
				B	3	0.70	426	363	0.008	3	3	0.0	0.0	5.260
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	105	26	870	748	0.140	105	112	0.2	0.1	5.285
		2	1	A	13	3	-	-	-	13	12	0.0	0.0	0.095
				B	0.77	0.19	-	-	-	0.77	1	0.0	0.0	0.000
				C	73	18	-	-	-	73	83	0.0	0.0	0.463
				D	112	28	-	-	-	112	118	0.0	0.0	0.098
			2	A	14	3	-	-	-	14	12	0.0	0.0	0.000
				B	2	0.57	-	-	-	2	2	0.0	0.0	1.907
				C	85	21	-	-	-	84	87	0.0	0.0	0.493
				D	112	28	-	-	-	112	115	0.0	0.0	0.043
C - Cyfarthfa Retail Park South	Entry	1	1	A	8	2	747	667	0.012	8	8	0.0	0.0	4.911
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	132	33	877	781	0.169	131	135	0.1	0.3	4.961
			2	A	10	2	653	580	0.017	9	7	0.0	0.0	5.089
				B	56	14	877	780	0.072	55	64	0.1	0.1	5.874
				C	22	6	858	764	0.029	23	23	0.0	0.0	6.112
				D	113	28	877	781	0.144	112	114	0.2	0.2	4.869
		2	1	A	18	4	-	-	-	18	15	0.0	0.0	0.000
				B	56	14	-	-	-	56	63	0.0	0.0	0.412
				C	22	6	-	-	-	22	23	0.0	0.0	0.087
				D	245	61	-	-	-	245	249	0.0	0.0	0.098
D - Swansea Road (W)	Entry	1	1	A	73	18	1061	1017	0.072	73	70	0.1	0.1	5.162
				B	229	57	1061	1016	0.226	230	226	0.3	0.3	4.442
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	131	33	1061	1016	0.129	132	132	0.1	0.1	4.473
				C	356	89	1061	1016	0.350	356	369	0.8	0.7	6.511
				D	0.77	0.19	406	388	0.002	0.77	2	0.0	0.0	9.519

2030 | Dev Scenario | PM

Data Errors and Warnings

Severity	Area	Item	Description
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Cyfarthfa Retail Park	Standard Roundabout		A, B, C, D	9.23	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.23	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2030	Dev Scenario	PM	ONE HOUR	15:45	17:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Cyfarthfa Retail Park North		ONE HOUR	✓	187	100.000
B - Swansea Road (E)		ONE HOUR	✓	655	100.000
C - Cyfarthfa Retail Park South		ONE HOUR	✓	841	100.000
D - Swansea Road (W)		ONE HOUR	✓	827	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	51	32	104
	B - Swansea Road (E)	38	2	262	354
	C - Cyfarthfa Retail Park South	24	143	24	651
	D - Swansea Road (W)	85	281	458	2

Vehicle Mix

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

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

From	To				
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	0	0	1
	B - Swansea Road (E)	3	1	0	0
	C - Cyfarthfa Retail Park South	0	0	0	0
	D - Swansea Road (W)	0	2	0	0

Cyclist %

From	To		
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)
	A - Cyfarthfa Retail Park North	0	0
	B - Swansea Road (E)	0	0
	C - Cyfarthfa Retail Park South	0	0
	D - Swansea Road (W)	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - Cyfarthfa Retail Park North	6.84	0.5	A	169	254
B - Swansea Road (E)	7.82	1.7	A	603	904
C - Cyfarthfa Retail Park South	12.69	3.9	B	776	1165
D - Swansea Road (W)	7.35	1.9	A	759	1139

Main Results for each time segment

15:45 - 16:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	151	38	694	148	144	107	0.0	0.4	5.327	A
B - Swansea Road (E)	506	126	492	504	502	350	0.0	1.1	5.915	A
C - Cyfarthfa Retail Park South	626	156	380	628	630	617	0.0	1.0	6.661	A
D - Swansea Road (W)	637	159	162	639	626	845	0.0	0.8	5.329	A

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	156	39	811	158	174	134	0.4	0.2	6.082	A
B - Swansea Road (E)	585	146	558	586	588	411	1.1	0.9	6.242	A
C - Cyfarthfa Retail Park South	768	192	452	764	751	692	1.0	2.0	7.648	A
D - Swansea Road (W)	734	183	209	737	744	1008	0.8	1.4	5.831	A

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	200	50	1015	200	210	158	0.2	0.5	6.835	A
B - Swansea Road (E)	721	180	680	729	723	535	0.9	1.4	7.573	A
C - Cyfarthfa Retail Park South	932	233	545	931	938	864	2.0	3.7	12.396	B
D - Swansea Road (W)	905	226	267	907	908	1209	1.4	1.8	7.354	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	197	49	1020	198	213	167	0.5	0.2	6.647	A
B - Swansea Road (E)	716	179	679	712	720	539	1.4	1.7	7.824	A
C - Cyfarthfa Retail Park South	947	237	539	930	926	851	3.7	3.9	12.689	B
D - Swansea Road (W)	913	228	269	918	916	1200	1.8	1.9	7.069	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	165	41	806	165	171	152	0.2	0.4	6.472	A
B - Swansea Road (E)	593	148	546	593	610	426	1.7	0.8	6.418	A
C - Cyfarthfa Retail Park South	761	190	468	768	769	671	3.9	1.1	8.499	A
D - Swansea Road (W)	740	185	218	740	743	1017	1.9	1.2	5.902	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	148	37	695	145	151	109	0.4	0.3	5.684	A
B - Swansea Road (E)	496	124	481	492	509	358	0.8	0.9	6.074	A
C - Cyfarthfa Retail Park South	626	156	369	625	632	604	1.1	0.9	6.504	A
D - Swansea Road (W)	625	156	175	629	631	820	1.2	0.9	5.319	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

15:45 - 16:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	55	723	0.076	54	53	0.0	0.2	4.967	A
			2	A, C, D	96	723	0.132	94	91	0.0	0.3	5.539	A
		2	1	(A, B, C, D)	151			151	146	0.0	0.0	0.000	A
	Exit	1	1		107			107	107	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	205	736	0.278	206	203	0.0	0.4	6.128	A
			3	D	138	736	0.188	136	137	0.0	0.3	5.289	A
			4	A, B, D	163	736	0.221	162	162	0.0	0.3	5.534	A
		2	1	(A, B, C, D)	258			258	256	0.0	0.0	0.187	A
			2	(A, B, C, D)	248			247	250	0.0	0.0	0.219	A
	Exit	1	1		350			350	350	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	277	760	0.365	280	282	0.0	0.3	5.760	A
			2	A, B, C, D	347	760	0.457	348	348	0.0	0.5	6.330	A
		2	1	(A, B, C, D)	626			625	633	0.0	0.2	0.578	A
	Exit	1	1		617			617	601	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	198	1003	0.197	199	197	0.0	0.2	4.167	A
			2	B, C, D	439	1003	0.438	441	429	0.0	0.6	5.857	A
	Exit	1	1		845			845	843	0.0	0.0	0.000	A

16:00 - 16:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	56	684	0.081	56	63	0.2	0.1	5.532	A
			2	A, C, D	101	684	0.147	103	111	0.3	0.1	6.370	A
		2	1	(A, B, C, D)	156			156	174	0.0	0.0	0.020	A
	Exit	1	1		134			134	128	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	228	718	0.318	229	232	0.4	0.4	6.556	A
			3	D	174	718	0.243	175	165	0.3	0.2	5.345	A
			4	A, B, D	181	718	0.253	182	191	0.3	0.2	5.592	A
		2	1	(A, B, C, D)	286			285	295	0.0	0.0	0.328	A
			2	(A, B, C, D)	299			299	291	0.0	0.1	0.345	A
	Exit	1	1		411			411	429	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	345	738	0.468	345	339	0.3	0.6	6.214	A
			2	A, B, C, D	420	738	0.570	419	413	0.5	0.9	6.907	A
		2	1	(A, B, C, D)	768			765	754	0.2	0.4	1.047	A
	Exit	1	1		692			692	699	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	231	987	0.235	235	238	0.2	0.2	4.670	A
			2	B, C, D	503	987	0.509	502	506	0.6	1.1	6.370	A
	Exit	1	1		1008			1008	1002	0.0	0.0	0.000	A

16:15 - 16:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	68	615	0.110	67	74	0.1	0.2	6.659	A
			2	A, C, D	132	615	0.215	132	136	0.1	0.3	6.840	A
		2	1	(A, B, C, D)	200			200	212	0.0	0.0	0.059	A
	Exit	1	1		158			158	160	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	301	685	0.440	302	294	0.4	0.7	7.375	A
			3	D	194	685	0.284	196	201	0.2	0.2	5.918	A
			4	A, B, D	227	685	0.332	231	228	0.2	0.3	6.428	A
		2	1	(A, B, C, D)	352			352	358	0.0	0.1	0.916	A
			2	(A, B, C, D)	369			371	367	0.1	0.0	0.887	A
	Exit	1	1		535			535	529	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	424	709	0.597	423	429	0.6	0.9	7.353	A
			2	A, B, C, D	506	709	0.713	508	509	0.9	1.2	8.144	A
		2	1	(A, B, C, D)	932			929	940	0.4	1.6	4.614	A
	Exit	1	1		864			864	860	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	314	966	0.325	315	308	0.2	0.4	5.023	A
			2	B, C, D	591	966	0.612	592	600	1.1	1.3	8.536	A
	Exit	1	1		1209			1209	1231	0.0	0.0	0.000	A

16:30 - 16:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	74	613	0.121	74	78	0.2	0.1	6.258	A
			2	A, C, D	123	613	0.200	124	135	0.3	0.1	6.842	A
		2	1	(A, B, C, D)	197			197	212	0.0	0.0	0.020	A
	Exit	1	1		167			167	163	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	287	685	0.419	288	290	0.7	0.6	7.630	A
			3	D	195	685	0.285	194	200	0.2	0.4	5.940	A
			4	A, B, D	231	685	0.337	230	230	0.3	0.4	6.443	A
		2	1	(A, B, C, D)	348			347	351	0.1	0.2	1.056	A
			2	(A, B, C, D)	368			366	370	0.0	0.2	1.017	A
	Exit	1	1		539			539	531	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	436	711	0.613	431	424	0.9	1.2	7.367	A
			2	A, B, C, D	502	711	0.707	499	502	1.2	1.3	8.103	A
		2	1	(A, B, C, D)	947			938	927	1.6	1.4	4.923	A
	Exit	1	1		851			851	861	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	304	965	0.315	303	307	0.4	0.5	5.199	A
			2	B, C, D	609	965	0.632	614	610	1.3	1.4	8.003	A
	Exit	1	1		1200			1200	1220	0.0	0.0	0.000	A

16:45 - 17:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	58	686	0.085	58	61	0.1	0.2	6.338	A
			2	A, C, D	107	686	0.156	107	111	0.1	0.2	6.447	A
		2	1	(A, B, C, D)	165			165	172	0.0	0.0	0.064	A
	Exit	1	1		152			152	144	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	221	721	0.306	220	238	0.6	0.4	6.629	A
			3	D	171	721	0.237	171	171	0.4	0.2	5.572	A
			4	A, B, D	201	721	0.279	202	201	0.4	0.2	5.965	A
		2	1	(A, B, C, D)	299			299	301	0.2	0.0	0.322	A
			2	(A, B, C, D)	294			294	307	0.2	0.0	0.307	A
	Exit	1	1		426			426	430	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	345	733	0.470	346	345	1.2	0.4	6.708	A
			2	A, B, C, D	418	733	0.570	422	424	1.3	0.6	7.073	A
		2	1	(A, B, C, D)	761			763	764	1.4	0.1	1.608	A
	Exit	1	1		671			671	693	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	249	983	0.253	249	246	0.5	0.2	4.459	A
			2	B, C, D	491	983	0.499	491	497	1.4	1.0	6.610	A
	Exit	1	1		1017			1017	1027	0.0	0.0	0.000	A

17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	50	723	0.069	49	53	0.2	0.1	5.240	A
			2	A, C, D	98	723	0.135	96	98	0.2	0.2	5.887	A
		2	1	(A, B, C, D)	148			148	151	0.0	0.0	0.026	A
	Exit	1	1		109			109	106	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	211	739	0.286	209	207	0.4	0.4	6.352	A
			3	D	131	739	0.177	130	143	0.2	0.3	5.360	A
			4	A, B, D	154	739	0.208	153	159	0.2	0.3	5.494	A
		2	1	(A, B, C, D)	249			249	251	0.0	0.0	0.297	A
			2	(A, B, C, D)	247			247	258	0.0	0.0	0.241	A
	Exit	1	1		358			358	362	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	276	763	0.362	276	277	0.4	0.3	5.971	A
			2	A, B, C, D	350	763	0.458	349	355	0.6	0.6	6.077	A
		2	1	(A, B, C, D)	626			626	631	0.1	0.0	0.471	A
	Exit	1	1		604			604	606	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	197	999	0.197	196	196	0.2	0.3	4.148	A
			2	B, C, D	429	999	0.429	433	435	1.0	0.6	5.843	A
	Exit	1	1		820			820	848	0.0	0.0	0.000	A

Lane movements: Main Results for each time segment

15:45 - 16:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	41	10	958	725	0.057	41	38	0.0	0.1	4.971
				C	14	4	938	710	0.020	13	15	0.0	0.1	4.957
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
		2	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	14	3	938	708	0.020	14	13	0.0	0.0	4.999
				D	82	20	958	724	0.113	80	78	0.0	0.3	5.627
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	41	10	-	-	-	41	39	0.0	0.0	0.000
				C	28	7	-	-	-	28	28	0.0	0.0	0.000
				D	82	20	-	-	-	82	79	0.0	0.0	0.000
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	205	51	870	736	0.278	206	203	0.0	0.4	6.128
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	138	35	870	736	0.188	136	137	0.0	0.3	5.289
		2	4	A	24	6	870	739	0.032	23	26	0.0	0.0	6.316
				B	2	0.60	331	279	0.009	3	2	0.0	0.0	6.273
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	137	34	870	736	0.186	136	135	0.0	0.3	5.378
			1	A	12	3	-	-	-	12	13	0.0	0.0	0.000
				B	0.96	0.24	-	-	-	0.96	0.88	0.0	0.0	0.000
				C	102	26	-	-	-	102	102	0.0	0.0	0.436
				D	142	36	-	-	-	142	140	0.0	0.0	0.025
C - Cyfarthfa Retail Park South	Entry	1	1	A	8	2	842	732	0.011	8	9	0.0	0.0	5.372
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	270	67	877	760	0.355	272	273	0.0	0.3	5.773
			2	A	7	2	719	629	0.011	7	7	0.0	0.0	5.080
				B	104	26	877	758	0.138	103	105	0.0	0.3	7.128
				C	18	5	877	761	0.024	18	18	0.0	0.0	7.117
				D	218	54	877	761	0.286	220	218	0.0	0.2	5.923
		2	1	A	14	4	-	-	-	14	16	0.0	0.0	0.506
				B	104	26	-	-	-	104	106	0.0	0.1	1.038
				C	18	5	-	-	-	18	18	0.0	0.0	0.847
				D	489	122	-	-	-	488	494	0.0	0.1	0.473
D - Swansea Road (W)	Entry	1	1	A	70	17	1061	1002	0.070	70	65	0.0	0.1	4.415
				B	128	32	1061	1004	0.128	129	132	0.0	0.1	4.043
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	73	18	1061	1003	0.073	74	74	0.0	0.0	4.258
				C	364	91	1061	1003	0.362	365	354	0.0	0.6	6.187
				D	2	0.48	382	358	0.005	2	2	0.0	0.0	5.084

16:00 - 16:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	43	11	958	689	0.062	42	46	0.1	0.1	5.664
				C	13	3	938	669	0.019	13	17	0.1	0.0	5.171
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	10	2	958	682	0.014	10	13	0.0	0.0	4.886
				D	91	23	958	683	0.133	93	98	0.3	0.1	6.568
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	43	11	-	-	-	43	46	0.0	0.0	0.015
				C	23	6	-	-	-	23	30	0.0	0.0	0.038
				D	91	23	-	-	-	91	98	0.0	0.0	0.016
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	228	57	870	718	0.318	229	232	0.4	0.4	6.556
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	174	44	870	718	0.243	175	165	0.3	0.2	5.345
			4	A	31	8	870	719	0.043	32	32	0.0	0.0	6.473
				B	2	0.42	348	286	0.006	2	2	0.0	0.0	7.408
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	149	37	870	718	0.207	148	157	0.3	0.2	5.396
		2	1	A	13	3	-	-	-	13	14	0.0	0.0	0.080
				B	0.72	0.18	-	-	-	0.72	1	0.0	0.0	0.000
				C	110	28	-	-	-	110	118	0.0	0.0	0.696
				D	162	40	-	-	-	162	161	0.0	0.0	0.083
			2	A	18	5	-	-	-	18	17	0.0	0.0	0.074
				B	0.96	0.24	-	-	-	0.96	0.88	0.0	0.0	0.000
				C	118	30	-	-	-	118	114	0.0	0.0	0.755
				D	162	40	-	-	-	162	160	0.0	0.0	0.083
C - Cyfarthfa Retail Park South	Entry	1	1	A	14	3	807	684	0.020	14	12	0.0	0.0	6.241
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	331	83	877	738	0.449	331	326	0.3	0.6	6.213
			2	A	10	3	842	713	0.014	10	10	0.0	0.0	6.859
				B	128	32	877	740	0.173	127	126	0.3	0.3	7.495
				C	23	6	860	724	0.032	24	23	0.0	0.0	8.148
				D	259	65	877	737	0.351	258	253	0.2	0.6	6.508
		2	1	A	24	6	-	-	-	24	23	0.0	0.0	1.069
				B	128	32	-	-	-	128	126	0.1	0.1	1.594
D - Swansea Road (W)	Entry	1	1	C	23	6	-	-	-	23	23	0.0	0.0	1.878
				D	592	148	-	-	-	590	583	0.1	0.3	0.895
			2	A	76	19	1061	989	0.077	78	74	0.1	0.0	4.947
				B	156	39	1061	986	0.158	156	165	0.1	0.2	4.544
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	83	21	1061	986	0.084	84	90	0.0	0.1	4.224
				C	417	104	1061	987	0.422	416	414	0.6	1.0	6.824
				D	3	0.72	424	398	0.007	3	2	0.0	0.0	6.849

16:15 - 16:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	49	12	958	613	0.080	49	55	0.1	0.1	6.674
				C	19	5	958	617	0.030	18	19	0.0	0.1	6.614
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	16	4	938	606	0.027	17	17	0.0	0.0	5.724
				D	116	29	958	616	0.188	116	120	0.1	0.3	6.998
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	49	12	-	-	-	49	55	0.0	0.0	0.010
				C	35	9	-	-	-	35	36	0.0	0.0	0.040
				D	116	29	-	-	-	116	120	0.0	0.0	0.087
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	301	75	870	686	0.439	302	294	0.4	0.7	7.375
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	194	49	870	685	0.284	196	201	0.2	0.2	5.918
			4	A	40	10	870	686	0.058	42	40	0.0	0.0	7.637
				B	3	0.72	383	302	0.010	3	3	0.0	0.0	8.454
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	184	46	870	685	0.269	186	185	0.2	0.3	6.143
		2	1	A	17	4	-	-	-	17	20	0.0	0.0	0.432
				B	2	0.48	-	-	-	2	2	0.0	0.0	0.000
				C	146	36	-	-	-	145	147	0.0	0.1	1.602
				D	187	47	-	-	-	187	189	0.0	0.0	0.440
			2	A	23	6	-	-	-	23	20	0.0	0.0	0.218
				B	0.96	0.24	-	-	-	0.96	0.88	0.0	0.0	0.000
				C	155	39	-	-	-	156	149	0.0	0.0	1.579
				D	191	48	-	-	-	192	197	0.0	0.0	0.435
C - Cyfarthfa Retail Park South	Entry	1	1	A	13	3	842	681	0.020	14	14	0.0	0.0	6.578
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	410	103	877	710	0.578	409	415	0.6	0.9	7.378
			2	A	13	3	825	669	0.019	13	13	0.0	0.0	7.419
				B	168	42	877	709	0.236	166	160	0.3	0.5	8.763
				C	29	7	877	707	0.041	29	28	0.0	0.1	9.385
				D	296	74	877	709	0.418	299	309	0.6	0.6	7.739
		2	1	A	26	7	-	-	-	26	27	0.0	0.1	3.718
				B	168	42	-	-	-	168	160	0.1	0.4	5.775
				C	29	7	-	-	-	29	28	0.0	0.0	5.448
				D	709	177	-	-	-	706	725	0.3	1.1	4.357
D - Swansea Road (W)	Entry	1	1	A	91	23	1061	967	0.094	90	93	0.0	0.2	5.400
				B	223	56	1061	966	0.230	224	215	0.2	0.3	4.855
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	93	23	1061	964	0.096	92	97	0.1	0.1	4.967
				C	497	124	1061	966	0.514	498	502	1.0	1.2	9.206
				D	2	0.42	382	350	0.005	2	2	0.0	0.0	8.694

16:30 - 16:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	56	14	958	620	0.090	55	58	0.1	0.1	6.410
				C	19	5	958	623	0.030	19	20	0.1	0.0	5.813
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	12	3	919	593	0.020	12	15	0.0	0.0	5.689
				D	111	28	958	614	0.180	113	120	0.3	0.1	6.986
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	56	14	-	-	-	56	58	0.0	0.0	0.000
				C	30	8	-	-	-	30	34	0.0	0.0	0.042
				D	111	28	-	-	-	111	119	0.0	0.0	0.023
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	287	72	870	684	0.420	288	290	0.7	0.6	7.630
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	195	49	870	685	0.285	194	200	0.2	0.4	5.940
			4	A	52	13	870	685	0.075	51	46	0.0	0.2	7.360
				B	2	0.42	366	291	0.006	1	2	0.0	0.0	4.748
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	178	44	870	686	0.259	177	182	0.3	0.2	6.240
		2	1	A	24	6	-	-	-	24	22	0.0	0.0	0.681
				B	0.48	0.12	-	-	-	0.48	0.96	0.0	0.0	0.393
				C	146	36	-	-	-	146	145	0.1	0.1	1.824
				D	177	44	-	-	-	177	183	0.0	0.1	0.496
			2	A	27	7	-	-	-	27	24	0.0	0.0	0.744
				B	1	0.30	-	-	-	1	1	0.0	0.0	0.000
				C	142	36	-	-	-	142	144	0.0	0.1	1.716
				D	197	49	-	-	-	196	200	0.0	0.1	0.551
C - Cyfarthfa Retail Park South	Entry	1	1	A	14	4	860	692	0.021	14	12	0.0	0.0	7.423
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	421	105	877	711	0.593	417	411	0.9	1.1	7.365
			2	A	10	3	825	663	0.015	10	11	0.0	0.0	7.975
				B	169	42	877	710	0.239	168	160	0.5	0.5	8.765
				C	24	6	877	707	0.034	24	26	0.1	0.1	9.431
				D	299	75	877	710	0.420	296	305	0.6	0.7	7.646
		2	1	A	24	6	-	-	-	24	23	0.1	0.0	4.641
				B	170	43	-	-	-	169	160	0.4	0.2	5.851
				C	25	6	-	-	-	24	26	0.0	0.1	6.978
				D	727	182	-	-	-	720	718	1.1	1.1	4.649
D - Swansea Road (W)	Entry	1	1	A	92	23	1061	965	0.096	91	94	0.2	0.2	5.357
				B	212	53	1061	965	0.220	212	212	0.3	0.3	5.128
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	102	26	1061	966	0.106	102	98	0.1	0.1	4.833
				C	505	126	1061	964	0.523	510	510	1.2	1.2	8.602
				D	2	0.60	340	310	0.008	2	2	0.0	0.0	7.204

16:45 - 17:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	44	11	958	689	0.064	45	45	0.1	0.1	6.290
				C	14	3	958	684	0.020	13	15	0.0	0.0	6.479
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	15	4	958	686	0.021	15	15	0.0	0.0	5.808
				D	92	23	958	688	0.134	92	96	0.1	0.2	6.544
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	44	11	-	-	-	44	45	0.0	0.0	0.024
				C	29	7	-	-	-	29	30	0.0	0.0	0.023
				D	92	23	-	-	-	92	97	0.0	0.0	0.096
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	221	55	870	722	0.305	220	238	0.6	0.4	6.629
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	171	43	870	722	0.237	171	171	0.4	0.2	5.572
			4	A	39	10	870	724	0.054	41	39	0.2	0.0	6.925
				B	2	0.54	331	271	0.008	2	2	0.0	0.0	7.829
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	160	40	870	721	0.221	159	160	0.2	0.2	5.725
		2	1	A	20	5	-	-	-	20	19	0.0	0.0	0.362
				B	2	0.42	-	-	-	2	0.96	0.0	0.0	0.000
				C	111	28	-	-	-	111	117	0.1	0.0	0.659
				D	167	42	-	-	-	167	164	0.1	0.0	0.080
			2	A	19	5	-	-	-	19	19	0.0	0.0	0.115
				B	0.48	0.12	-	-	-	0.48	0.88	0.0	0.0	0.000
				C	110	27	-	-	-	110	121	0.1	0.0	0.664
				D	164	41	-	-	-	164	166	0.1	0.0	0.071
C - Cyfarthfa Retail Park South	Entry	1	1	A	16	4	825	689	0.023	15	13	0.0	0.1	6.226
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	329	82	877	733	0.449	330	332	1.1	0.4	6.727
			2	A	10	2	807	674	0.014	10	10	0.0	0.0	7.529
				B	129	32	877	732	0.176	130	126	0.5	0.2	7.639
				C	20	5	877	732	0.028	20	22	0.1	0.1	8.093
				D	259	65	877	733	0.354	262	265	0.7	0.4	6.701
		2	1	A	25	6	-	-	-	25	23	0.0	0.0	1.323
				B	129	32	-	-	-	129	125	0.2	0.0	2.465
				C	20	5	-	-	-	20	22	0.1	0.0	2.186
				D	587	147	-	-	-	588	593	1.1	0.0	1.417
D - Swansea Road (W)	Entry	1	1	A	86	22	1061	983	0.088	86	82	0.2	0.1	4.658
				B	162	41	1061	983	0.165	162	165	0.3	0.1	4.358
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	86	21	1061	986	0.087	86	92	0.1	0.1	4.353
				C	402	101	1061	983	0.409	403	403	1.2	0.9	7.102
				D	2	0.60	424	396	0.006	2	2	0.0	0.0	9.279

17:00 - 17:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	41	10	958	721	0.056	40	41	0.1	0.1	5.304
				C	9	2	938	702	0.013	9	13	0.0	0.0	5.036
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	11	3	881	666	0.016	10	12	0.0	0.0	4.742
				D	87	22	958	726	0.120	85	86	0.2	0.2	6.044
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	41	10	-	-	-	41	40	0.0	0.0	0.000
				C	20	5	-	-	-	20	24	0.0	0.0	0.000
				D	87	22	-	-	-	87	86	0.0	0.0	0.046
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	211	53	870	739	0.286	209	207	0.4	0.4	6.352
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	131	33	870	740	0.177	130	143	0.2	0.3	5.360
			4	A	31	8	853	723	0.043	31	27	0.0	0.0	6.725
				B	1	0.36	244	204	0.007	1	1	0.0	0.0	5.467
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	121	30	870	738	0.164	120	131	0.2	0.2	5.249
		2	1	A	15	4	-	-	-	15	14	0.0	0.0	0.000
				B	0.96	0.24	-	-	-	0.96	0.64	0.0	0.0	0.000
				C	107	27	-	-	-	107	103	0.0	0.0	0.617
				D	126	32	-	-	-	126	134	0.0	0.0	0.083
			2	A	17	4	-	-	-	17	13	0.0	0.0	0.197
				B	0.48	0.12	-	-	-	0.48	0.64	0.0	0.0	0.000
				C	104	26	-	-	-	104	104	0.0	0.0	0.527
				D	126	31	-	-	-	126	140	0.0	0.0	0.034
C - Cyfarthfa Retail Park South	Entry	1	1	A	9	2	842	728	0.013	9	12	0.1	0.0	5.167
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	267	67	877	764	0.349	267	265	0.4	0.3	6.005
			2	A	6	2	772	666	0.009	6	7	0.0	0.0	5.602
				B	107	27	877	763	0.140	105	107	0.2	0.3	6.747
				C	21	5	877	762	0.028	21	20	0.1	0.0	7.379
				D	216	54	877	763	0.282	216	221	0.4	0.3	5.654
		2	1	A	15	4	-	-	-	15	19	0.0	0.0	0.235
				B	107	27	-	-	-	107	107	0.0	0.0	0.908
				C	21	5	-	-	-	21	20	0.0	0.0	0.961
				D	482	121	-	-	-	482	486	0.0	0.0	0.365
D - Swansea Road (W)	Entry	1	1	A	63	16	1061	1000	0.063	62	61	0.1	0.1	4.381
				B	134	34	1061	998	0.134	134	135	0.1	0.2	4.042
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	77	19	1061	999	0.077	78	78	0.1	0.1	4.034
				C	351	88	1061	999	0.351	354	355	0.9	0.6	6.242
				D	0.96	0.24	424	397	0.002	0.96	2	0.0	0.0	5.025

2030 | Dev Scenario | SAT

Data Errors and Warnings

Severity	Area	Item	Description
Info	Simulation	A1 - [Lane Simulation]	This run uses Simulation mode. For detailed information on this mode, please see the User Guide.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Cyfarthfa Retail Park	Standard Roundabout		A, B, C, D	10.99	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.99	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2030	Dev Scenario	SAT	ONE HOUR	12:30	14:00	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Cyfarthfa Retail Park North		ONE HOUR	✓	267	100.000
B - Swansea Road (E)		ONE HOUR	✓	488	100.000
C - Cyfarthfa Retail Park South		ONE HOUR	✓	989	100.000
D - Swansea Road (W)		ONE HOUR	✓	1081	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	117	51	98
	B - Swansea Road (E)	37	2	180	270
	C - Cyfarthfa Retail Park South	52	162	10	766
	D - Swansea Road (W)	196	386	487	12

Vehicle Mix

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

Junction	PCU factor for a cyclist	PCU factor for a cyclist in controlling flow
1	0.20	0.80

Heavy Vehicle %

From	To				
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)	C - Cyfarthfa Retail Park South	D - Swansea Road (W)
	A - Cyfarthfa Retail Park North	0	0	0	0
	B - Swansea Road (E)	0	0	0	1
	C - Cyfarthfa Retail Park South	0	1	0	0
	D - Swansea Road (W)	0	1	0	0

Cyclist %

From	To		
		A - Cyfarthfa Retail Park North	B - Swansea Road (E)
	A - Cyfarthfa Retail Park North	0	0
	B - Swansea Road (E)	0	0
	C - Cyfarthfa Retail Park South	0	0
	D - Swansea Road (W)	0	0

Results

Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - Cyfarthfa Retail Park North	8.48	0.8	A	248	372
B - Swansea Road (E)	6.93	1.0	A	448	671
C - Cyfarthfa Retail Park South	15.97	4.2	C	902	1353
D - Swansea Road (W)	8.92	2.9	A	989	1483

Main Results for each time segment

12:30 - 12:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	195	49	796	196	197	222	0.0	0.4	5.896	A
B - Swansea Road (E)	374	93	498	373	365	494	0.0	0.7	5.505	A
C - Cyfarthfa Retail Park South	732	183	315	732	736	556	0.0	1.5	6.891	A
D - Swansea Road (W)	820	205	197	821	816	851	0.0	1.2	5.799	A

12:45 - 13:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	252	63	953	253	251	260	0.4	0.4	6.764	A
B - Swansea Road (E)	435	109	590	435	445	615	0.7	0.7	5.916	A
C - Cyfarthfa Retail Park South	879	220	387	871	891	638	1.5	2.7	9.069	A
D - Swansea Road (W)	968	242	241	971	972	1017	1.2	1.6	6.917	A

13:00 - 13:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	295	74	1180	293	301	319	0.4	0.8	8.234	A
B - Swansea Road (E)	533	133	730	537	545	743	0.7	0.9	6.677	A
C - Cyfarthfa Retail Park South	1092	273	459	1090	1096	808	2.7	4.2	14.373	B
D - Swansea Road (W)	1203	301	294	1205	1204	1255	1.6	2.7	8.752	A

13:15 - 13:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	310	77	1153	311	303	309	0.8	0.7	8.479	A
B - Swansea Road (E)	535	134	725	536	543	739	0.9	0.9	6.932	A
C - Cyfarthfa Retail Park South	1075	269	455	1085	1088	806	4.2	4.1	15.966	C
D - Swansea Road (W)	1166	292	294	1167	1188	1246	2.7	2.9	8.920	A

13:30 - 13:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	232	58	941	232	243	245	0.7	0.3	7.148	A
B - Swansea Road (E)	436	109	581	431	446	592	0.9	1.0	6.031	A
C - Cyfarthfa Retail Park South	889	222	375	888	908	638	4.1	2.2	9.812	A
D - Swansea Road (W)	954	238	231	956	978	1032	2.9	1.5	6.685	A

13:45 - 14:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	203	51	802	204	205	217	0.3	0.3	6.090	A
B - Swansea Road (E)	373	93	501	376	381	505	1.0	0.5	5.484	A
C - Cyfarthfa Retail Park South	747	187	330	747	753	547	2.2	1.6	7.400	A
D - Swansea Road (W)	820	205	198	821	822	879	1.5	1.3	5.643	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

12:30 - 12:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	104	689	0.151	105	106	0.0	0.2	6.046	A
			2	A, C, D	91	689	0.132	91	92	0.0	0.2	5.664	A
		2	1	(A, B, C, D)	195			195	199	0.0	0.0	0.027	A
	Exit	1	1		222			222	215	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	138	734	0.188	137	134	0.0	0.2	5.889	A
			3	D	103	734	0.141	104	104	0.0	0.2	5.024	A
			4	A, B, D	133	734	0.181	132	128	0.0	0.2	5.245	A
		2	1	(A, B, C, D)	187			187	184	0.0	0.0	0.082	A
			2	(A, B, C, D)	187			187	184	0.0	0.0	0.089	A
	Exit	1	1		494			494	497	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	329	780	0.422	329	334	0.0	0.6	5.906	A
			2	A, B, C, D	404	780	0.517	403	402	0.0	0.7	6.350	A
		2	1	(A, B, C, D)	732			733	741	0.0	0.3	0.739	A
	Exit	1	1		556			556	551	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	331	991	0.334	330	322	0.0	0.4	4.915	A
			2	B, C, D	490	991	0.494	491	494	0.0	0.7	6.375	A
	Exit	1	1		851			851	853	0.0	0.0	0.000	A

12:45 - 13:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	133	636	0.209	134	134	0.2	0.2	6.787	A
			2	A, C, D	119	636	0.187	119	116	0.2	0.2	6.596	A
		2	1	(A, B, C, D)	252			252	250	0.0	0.0	0.058	A
	Exit	1	1		260			260	258	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	153	709	0.216	152	159	0.2	0.3	6.158	A
			3	D	127	709	0.179	128	128	0.2	0.1	5.424	A
			4	A, B, D	154	709	0.218	155	157	0.2	0.2	5.791	A
		2	1	(A, B, C, D)	215			215	221	0.0	0.0	0.100	A
			2	(A, B, C, D)	220			220	224	0.0	0.0	0.096	A
	Exit	1	1		615			615	606	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	404	758	0.534	401	408	0.6	0.9	6.647	A
			2	A, B, C, D	474	758	0.626	470	484	0.7	1.2	7.039	A
		2	1	(A, B, C, D)	879			879	894	0.3	0.7	2.211	A
	Exit	1	1		638			638	654	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	402	975	0.412	403	395	0.4	0.6	5.618	A
			2	B, C, D	567	975	0.581	568	578	0.7	1.1	7.801	A
	Exit	1	1		1017			1017	1041	0.0	0.0	0.000	A

13:00 - 13:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	157	559	0.281	156	157	0.2	0.5	8.285	A
			2	A, C, D	137	559	0.246	138	144	0.2	0.3	7.983	A
		2	1	(A, B, C, D)	295			295	302	0.0	0.0	0.095	A
	Exit	1	1		319			319	318	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	196	671	0.293	199	201	0.3	0.3	6.824	A
			3	D	155	671	0.231	155	157	0.1	0.3	5.789	A
			4	A, B, D	181	671	0.270	183	187	0.2	0.2	6.249	A
		2	1	(A, B, C, D)	269			269	278	0.0	0.1	0.351	A
			2	(A, B, C, D)	264			264	267	0.0	0.0	0.344	A
	Exit	1	1		743			743	744	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	504	736	0.686	502	504	0.9	1.1	7.641	A
			2	A, B, C, D	588	736	0.799	588	592	1.2	1.3	8.037	A
		2	1	(A, B, C, D)	1092			1092	1098	0.7	1.8	6.509	A
	Exit	1	1		808			808	808	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	510	956	0.533	511	509	0.6	0.8	6.777	A
			2	B, C, D	693	956	0.725	694	696	1.1	1.9	10.190	B
	Exit	1	1		1255			1255	1276	0.0	0.0	0.000	A

13:15 - 13:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	168	569	0.295	169	162	0.5	0.3	8.385	A
			2	A, C, D	142	569	0.249	142	141	0.3	0.3	8.203	A
		2	1	(A, B, C, D)	310			310	302	0.0	0.0	0.181	A
	Exit	1	1		309			309	310	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	207	672	0.308	207	203	0.3	0.3	7.133	A
			3	D	147	672	0.219	148	155	0.3	0.2	6.067	A
			4	A, B, D	181	672	0.270	181	184	0.2	0.4	6.252	A
		2	1	(A, B, C, D)	262			262	268	0.1	0.0	0.410	A
			2	(A, B, C, D)	273			273	275	0.0	0.0	0.390	A
	Exit	1	1		739			739	742	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	502	737	0.681	501	504	1.1	1.1	7.556	A
			2	A, B, C, D	583	737	0.791	584	585	1.3	1.3	8.211	A
		2	1	(A, B, C, D)	1075			1085	1088	1.8	1.7	8.048	A
	Exit	1	1		806			806	809	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	489	956	0.511	486	496	0.8	1.1	7.120	A
			2	B, C, D	678	956	0.709	682	692	1.9	1.8	10.209	B
	Exit	1	1		1246			1246	1261	0.0	0.0	0.000	A

13:30 - 13:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	125	640	0.195	125	131	0.3	0.2	7.044	A
			2	A, C, D	107	640	0.167	107	112	0.3	0.2	7.191	A
		2	1	(A, B, C, D)	232			232	242	0.0	0.0	0.038	A
	Exit	1	1		245			245	253	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	154	712	0.216	154	163	0.3	0.2	6.220	A
			3	D	132	712	0.185	130	132	0.2	0.3	5.551	A
			4	A, B, D	150	712	0.211	148	152	0.4	0.4	5.865	A
		2	1	(A, B, C, D)	219			219	225	0.0	0.0	0.145	A
			2	(A, B, C, D)	216			216	222	0.0	0.0	0.113	A
	Exit	1	1		592			592	607	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	405	762	0.532	407	418	1.1	0.6	6.765	A
			2	A, B, C, D	483	762	0.634	482	489	1.3	1.0	7.315	A
		2	1	(A, B, C, D)	889			888	905	1.7	0.6	2.772	A
	Exit	1	1		638			638	659	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	386	979	0.395	387	397	1.1	0.6	5.502	A
			2	B, C, D	568	979	0.580	569	580	1.8	1.0	7.491	A
	Exit	1	1		1032			1032	1056	0.0	0.0	0.000	A

13:45 - 14:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - Cyfarthfa Retail Park North	Entry	1	1	B, C	110	687	0.160	112	109	0.2	0.2	6.229	A
			2	A, C, D	93	687	0.135	93	96	0.2	0.2	5.900	A
		2	1	(A, B, C, D)	203			203	205	0.0	0.0	0.015	A
	Exit	1	1		217			217	219	0.0	0.0	0.000	A
B - Swansea Road (E)	Entry	1	2	C	129	733	0.175	129	133	0.2	0.2	5.669	A
			3	D	113	733	0.154	114	113	0.3	0.1	5.169	A
			4	A, B, D	132	733	0.180	133	136	0.4	0.1	5.391	A
		2	1	(A, B, C, D)	184			184	188	0.0	0.0	0.071	A
			2	(A, B, C, D)	189			189	191	0.0	0.0	0.051	A
	Exit	1	1		505			505	512	0.0	0.0	0.000	A
C - Cyfarthfa Retail Park South	Entry	1	1	A, D	339	775	0.437	340	344	0.6	0.6	6.055	A
			2	A, B, C, D	408	775	0.527	406	410	1.0	0.8	6.543	A
		2	1	(A, B, C, D)	747			747	752	0.6	0.2	1.090	A
	Exit	1	1		547			547	547	0.0	0.0	0.000	A
D - Swansea Road (W)	Entry	1	1	A, B	329	990	0.333	331	331	0.6	0.4	4.835	A
			2	B, C, D	490	990	0.495	490	491	1.0	1.0	6.186	A
	Exit	1	1		879			879	883	0.0	0.0	0.000	A

Lane movements: Main Results for each time segment

12:30 - 12:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	85	21	958	690	0.123	86	87	0.0	0.2	6.146
				C	19	5	939	672	0.029	19	18	0.0	0.1	5.579
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	18	5	948	680	0.027	19	19	0.0	0.0	5.107
				D	73	18	958	684	0.106	72	73	0.0	0.2	5.810
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	85	21	-	-	-	85	88	0.0	0.0	0.046
				C	38	9	-	-	-	38	38	0.0	0.0	0.004
				D	73	18	-	-	-	73	73	0.0	0.0	0.017
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	138	34	870	735	0.187	137	134	0.0	0.2	5.889
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	103	26	870	735	0.141	104	104	0.0	0.2	5.024
			4	A	27	7	870	734	0.037	27	26	0.0	0.1	5.534
				B	1	0.30	233	195	0.006	1	1	0.0	0.0	4.698
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	104	26	870	735	0.142	104	100	0.0	0.2	5.175
		2	1	A	13	3	-	-	-	13	13	0.0	0.0	0.012
				B	0.59	0.15	-	-	-	0.59	0.67	0.0	0.0	0.000
				C	69	17	-	-	-	69	69	0.0	0.0	0.178
				D	104	26	-	-	-	104	101	0.0	0.0	0.025
			2	A	14	4	-	-	-	14	14	0.0	0.0	0.011
				B	0.59	0.15	-	-	-	0.59	0.63	0.0	0.0	0.039
				C	69	17	-	-	-	69	66	0.0	0.0	0.203
				D	103	26	-	-	-	103	104	0.0	0.0	0.026
C - Cyfarthfa Retail Park South	Entry	1	1	A	19	5	877	781	0.025	19	21	0.0	0.0	5.930
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	310	77	877	780	0.397	310	314	0.0	0.5	5.905
			2	A	19	5	877	780	0.024	19	18	0.0	0.0	5.584
				B	124	31	877	780	0.159	123	120	0.0	0.3	7.137
				C	8	2	738	658	0.012	8	7	0.0	0.0	7.498
				D	253	63	877	781	0.324	254	255	0.0	0.4	6.004
		2	1	A	38	10	-	-	-	38	39	0.0	0.0	0.535
				B	123	31	-	-	-	124	121	0.0	0.0	1.224
				C	8	2	-	-	-	8	7	0.0	0.0	1.008
				D	563	141	-	-	-	563	573	0.0	0.2	0.647
D - Swansea Road (W)	Entry	1	1	A	157	39	1061	991	0.159	157	149	0.0	0.3	5.366
				B	173	43	1061	990	0.175	173	173	0.0	0.2	4.524
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	110	28	1061	990	0.112	110	114	0.0	0.1	4.553
				C	373	93	1061	991	0.376	373	372	0.0	0.6	6.921
				D	6	2	872	813	0.008	7	7	0.0	0.0	6.674

12:45 - 13:00

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	110	28	958	639	0.173	111	111	0.2	0.1	6.906
				C	23	6	958	634	0.036	23	23	0.1	0.0	6.218
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	26	6	958	638	0.040	25	24	0.0	0.1	6.051
				D	93	23	958	636	0.146	93	92	0.2	0.1	6.740
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	110	28	-	-	-	110	111	0.0	0.0	0.051
				C	48	12	-	-	-	48	47	0.0	0.0	0.025
				D	93	23	-	-	-	93	92	0.0	0.0	0.083
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	153	38	870	708	0.216	152	159	0.2	0.3	6.158
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	127	32	870	709	0.179	128	128	0.2	0.1	5.424
			4	A	36	9	870	710	0.050	36	36	0.1	0.0	6.168
				B	1	0.33	233	189	0.007	1	1	0.0	0.0	7.528
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	118	29	870	709	0.166	118	120	0.2	0.1	5.659
		2	1	A	17	4	-	-	-	17	18	0.0	0.0	0.007
				B	0.59	0.15	-	-	-	0.59	0.59	0.0	0.0	0.000
				C	79	20	-	-	-	79	79	0.0	0.0	0.236
				D	119	30	-	-	-	119	123	0.0	0.0	0.025
			2	A	18	5	-	-	-	18	18	0.0	0.0	0.005
				B	0.71	0.18	-	-	-	0.71	0.63	0.0	0.0	0.000
				C	75	19	-	-	-	74	80	0.0	0.0	0.239
				D	126	32	-	-	-	126	125	0.0	0.0	0.018
C - Cyfarthfa Retail Park South	Entry	1	1	A	27	7	868	751	0.036	27	26	0.0	0.0	6.576
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	377	94	877	758	0.498	374	381	0.5	0.8	6.652
			2	A	20	5	877	758	0.026	20	20	0.0	0.0	6.945
				B	150	37	877	758	0.198	147	146	0.3	0.4	7.574
				C	10	2	773	667	0.015	10	9	0.0	0.0	7.917
				D	295	74	877	758	0.389	293	309	0.4	0.7	6.770
		2	1	A	47	12	-	-	-	47	46	0.0	0.0	2.134
				B	150	37	-	-	-	150	146	0.0	0.1	3.069
D - Swansea Road (W)	Entry	1	1	C	10	3	-	-	-	10	9	0.0	0.0	3.105
				D	673	168	-	-	-	672	693	0.2	0.5	2.026
			2	A	175	44	1061	976	0.180	176	175	0.3	0.3	5.993
				B	226	57	1061	975	0.232	226	220	0.2	0.3	5.317
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	130	32	1061	976	0.133	130	128	0.1	0.2	5.224
				C	426	107	1061	975	0.437	428	438	0.6	0.9	8.511
				D	11	3	998	917	0.012	11	11	0.0	0.0	9.254

13:00 - 13:15

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	130	32	958	560	0.231	128	128	0.1	0.4	8.669
				C	28	7	958	562	0.049	27	29	0.0	0.1	6.576
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	28	7	958	557	0.051	29	30	0.1	0.0	6.408
				D	109	27	958	558	0.196	109	114	0.1	0.2	8.398
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	130	32	-	-	-	130	129	0.0	0.0	0.117
				C	56	14	-	-	-	56	59	0.0	0.0	0.047
				D	109	27	-	-	-	109	114	0.0	0.0	0.095
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	196	49	870	671	0.293	199	201	0.3	0.3	6.824
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	155	39	870	671	0.231	155	157	0.1	0.3	5.789
			4	A	41	10	870	669	0.061	41	43	0.0	0.0	6.788
				B	3	0.77	405	317	0.010	3	3	0.0	0.0	8.796
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	137	34	870	671	0.204	138	142	0.1	0.1	6.038
		2	1	A	21	5	-	-	-	21	22	0.0	0.0	0.105
				B	1	0.36	-	-	-	1	1	0.0	0.0	0.000
				C	101	25	-	-	-	101	104	0.0	0.0	0.704
				D	146	37	-	-	-	146	150	0.0	0.0	0.144
			2	A	20	5	-	-	-	20	20	0.0	0.0	0.166
				B	2	0.42	-	-	-	2	1	0.0	0.0	0.270
				C	96	24	-	-	-	96	97	0.0	0.0	0.702
				D	146	37	-	-	-	146	149	0.0	0.0	0.136
C - Cyfarthfa Retail Park South	Entry	1	1	A	35	9	877	736	0.047	34	32	0.0	0.1	7.861
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	470	117	877	736	0.639	468	472	0.8	1.0	7.626
			2	A	21	5	877	738	0.029	21	24	0.0	0.1	7.622
				B	183	46	877	736	0.249	183	180	0.4	0.4	8.641
				C	12	3	808	677	0.017	12	11	0.0	0.0	8.463
				D	372	93	877	735	0.507	372	378	0.7	0.8	7.768
		2	1	A	56	14	-	-	-	56	56	0.0	0.1	6.889
				B	181	45	-	-	-	183	180	0.1	0.3	7.418
				C	11	3	-	-	-	12	11	0.0	0.0	7.750
				D	844	211	-	-	-	842	851	0.5	1.4	6.278
D - Swansea Road (W)	Entry	1	1	A	222	55	1061	957	0.232	222	219	0.3	0.4	7.369
				B	288	72	1061	956	0.301	288	289	0.3	0.4	6.326
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	140	35	1061	957	0.146	140	144	0.2	0.2	6.538
				C	541	135	1061	956	0.566	541	538	0.9	1.6	11.140
				D	12	3	1040	938	0.013	13	14	0.0	0.0	10.683

13:15 - 13:30

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	140	35	958	566	0.248	141	134	0.4	0.3	8.709
				C	28	7	958	566	0.049	28	28	0.1	0.0	6.835
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	28	7	958	565	0.050	28	30	0.0	0.1	7.728
				D	114	28	958	569	0.200	114	111	0.2	0.3	8.329
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	140	35	-	-	-	140	133	0.0	0.0	0.199
				C	56	14	-	-	-	56	58	0.0	0.0	0.106
				D	113	28	-	-	-	114	112	0.0	0.0	0.199
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	207	52	870	672	0.308	207	203	0.3	0.3	7.133
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	147	37	870	673	0.219	148	155	0.3	0.2	6.067
			4	A	38	10	870	672	0.057	37	39	0.0	0.1	6.802
				B	2	0.56	319	246	0.009	2	2	0.0	0.0	6.178
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	141	35	870	672	0.210	141	144	0.1	0.3	6.102
		2	1	A	17	4	-	-	-	17	19	0.0	0.0	0.077
				B	1	0.27	-	-	-	1	0.95	0.0	0.0	0.347
				C	100	25	-	-	-	100	100	0.0	0.0	0.842
				D	144	36	-	-	-	144	149	0.0	0.0	0.159
			2	A	21	5	-	-	-	21	21	0.0	0.0	0.255
				B	1	0.30	-	-	-	1	0.75	0.0	0.0	0.000
				C	107	27	-	-	-	107	103	0.0	0.0	0.757
				D	144	36	-	-	-	144	150	0.0	0.0	0.157
C - Cyfarthfa Retail Park South	Entry	1	1	A	33	8	877	736	0.045	34	32	0.1	0.1	7.229
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	469	117	877	737	0.636	468	472	1.0	1.0	7.578
			2	A	25	6	877	734	0.034	25	25	0.1	0.1	8.141
				B	182	45	877	736	0.247	184	182	0.4	0.4	8.767
				C	12	3	842	705	0.017	11	11	0.0	0.0	9.064
				D	365	91	877	737	0.495	364	367	0.8	0.8	7.916
		2	1	A	57	14	-	-	-	58	56	0.1	0.1	8.231
				B	182	46	-	-	-	182	182	0.3	0.4	8.817
				C	12	3	-	-	-	12	11	0.0	0.0	10.008
				D	824	206	-	-	-	833	839	1.4	1.3	7.843
D - Swansea Road (W)	Entry	1	1	A	214	53	1061	956	0.224	212	215	0.4	0.5	7.628
				B	275	69	1061	956	0.287	273	281	0.4	0.6	6.729
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	137	34	1061	955	0.143	138	143	0.2	0.2	6.557
				C	529	132	1061	956	0.553	532	537	1.6	1.5	11.101
				D	12	3	1009	908	0.014	12	12	0.0	0.1	13.176

13:30 - 13:45

Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	103	26	958	639	0.160	103	108	0.3	0.2	7.245
				C	22	6	948	630	0.035	22	23	0.0	0.0	6.097
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	22	5	958	637	0.035	22	22	0.1	0.0	6.150
				D	85	21	958	643	0.132	85	90	0.3	0.1	7.451
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	103	26	-	-	-	103	108	0.0	0.0	0.044
				C	44	11	-	-	-	44	45	0.0	0.0	0.000
				D	85	21	-	-	-	85	89	0.0	0.0	0.051
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	154	38	870	711	0.216	154	163	0.3	0.2	6.220
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	132	33	870	712	0.185	130	132	0.2	0.3	5.551
			4	A	33	8	870	710	0.046	32	33	0.1	0.1	6.613
				B	2	0.42	310	252	0.007	2	2	0.0	0.0	6.409
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	116	29	870	711	0.163	114	116	0.3	0.3	5.641
		2	1	A	16	4	-	-	-	16	16	0.0	0.0	0.031
				B	0.83	0.21	-	-	-	0.83	0.87	0.0	0.0	0.000
				C	77	19	-	-	-	77	82	0.0	0.0	0.350
				D	125	31	-	-	-	125	126	0.0	0.0	0.026
			2	A	17	4	-	-	-	17	17	0.0	0.0	0.053
				B	0.83	0.21	-	-	-	0.83	0.91	0.0	0.0	0.000
				C	77	19	-	-	-	77	81	0.0	0.0	0.276
				D	122	30	-	-	-	122	123	0.0	0.0	0.014
C - Cyfarthfa Retail Park South	Entry	1	1	A	24	6	877	761	0.032	25	25	0.1	0.0	6.987
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	381	95	877	762	0.500	382	393	1.0	0.6	6.751
			2	A	19	5	868	754	0.026	20	20	0.1	0.0	7.047
				B	145	36	877	761	0.190	144	148	0.4	0.3	8.064
				C	9	2	756	650	0.013	8	9	0.0	0.1	8.352
				D	310	78	877	762	0.407	310	312	0.8	0.6	6.950
		2	1	A	45	11	-	-	-	44	45	0.1	0.1	2.577
				B	144	36	-	-	-	145	148	0.4	0.1	3.613
				C	9	2	-	-	-	9	9	0.0	0.0	5.546
				D	692	173	-	-	-	691	702	1.3	0.4	2.574
D - Swansea Road (W)	Entry	1	1	A	168	42	1061	979	0.171	168	173	0.5	0.3	5.936
				B	219	55	1061	980	0.223	218	224	0.6	0.3	5.163
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	125	31	1061	978	0.127	126	125	0.2	0.1	4.884
				C	431	108	1061	979	0.440	432	442	1.5	0.8	8.216
				D	12	3	977	898	0.013	11	13	0.1	0.0	7.827

13:45 - 14:00

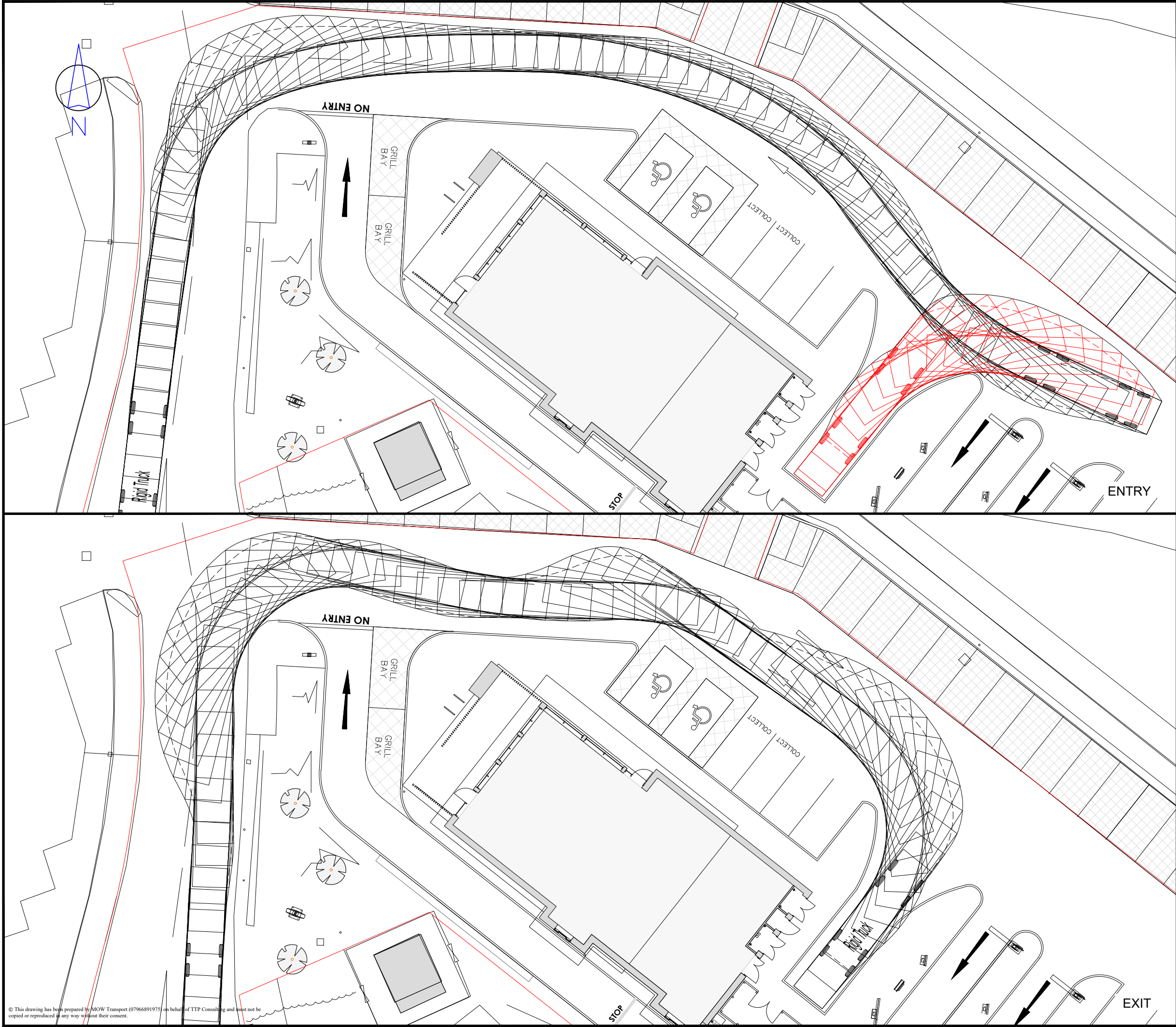
Arm	Side	Lane level	Lane	To Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Simulation max flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)
A - Cyfarthfa Retail Park North	Entry	1	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	92	23	958	686	0.134	93	92	0.2	0.2	6.391
				C	18	5	939	672	0.027	18	17	0.0	0.0	5.350
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	20	5	948	676	0.029	20	20	0.0	0.0	5.601
				D	73	18	958	684	0.107	73	76	0.1	0.1	5.978
		2	1	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	92	23	-	-	-	92	92	0.0	0.0	0.028
				C	38	9	-	-	-	38	37	0.0	0.0	0.007
				D	73	18	-	-	-	73	76	0.0	0.0	0.004
B - Swansea Road (E)	Entry	1	2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	129	32	870	733	0.176	129	133	0.2	0.2	5.669
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			3	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	113	28	870	733	0.154	114	113	0.3	0.1	5.169
			4	A	29	7	870	731	0.040	31	31	0.1	0.0	6.262
				B	1	0.36	310	259	0.006	1	2	0.0	0.0	5.340
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	101	25	870	733	0.138	101	103	0.3	0.1	5.134
		2	1	A	14	3	-	-	-	14	14	0.0	0.0	0.000
				B	0.48	0.12	-	-	-	0.48	0.91	0.0	0.0	0.000
				C	65	16	-	-	-	65	66	0.0	0.0	0.189
				D	104	26	-	-	-	104	107	0.0	0.0	0.008
			2	A	16	4	-	-	-	16	16	0.0	0.0	0.005
				B	0.95	0.24	-	-	-	0.95	0.99	0.0	0.0	0.000
				C	64	16	-	-	-	63	66	0.0	0.0	0.146
				D	109	27	-	-	-	109	108	0.0	0.0	0.000
C - Cyfarthfa Retail Park South	Entry	1	1	A	20	5	877	780	0.025	20	22	0.0	0.0	5.900
				B	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	319	80	877	776	0.411	320	322	0.6	0.5	6.065
			2	A	17	4	860	762	0.022	17	17	0.0	0.0	6.090
				B	122	30	877	776	0.157	121	124	0.3	0.3	7.420
				C	8	2	756	667	0.012	8	9	0.1	0.0	7.860
				D	262	65	877	776	0.337	260	260	0.6	0.5	6.112
		2	1	A	37	9	-	-	-	37	38	0.1	0.0	0.970
				B	121	30	-	-	-	122	124	0.1	0.0	1.711
				C	8	2	-	-	-	8	9	0.0	0.0	1.291
				D	580	145	-	-	-	580	581	0.4	0.1	0.964
D - Swansea Road (W)	Entry	1	1	A	148	37	1061	989	0.150	149	150	0.3	0.2	5.207
				B	181	45	1061	990	0.183	182	181	0.3	0.2	4.524
				C	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				D	0	0	0	0	0.000	0	0	0.0	0.0	0.000
			2	A	0	0	0	0	0.000	0	0	0.0	0.0	0.000
				B	108	27	1061	990	0.109	108	113	0.1	0.1	4.473
				C	373	93	1061	990	0.376	372	369	0.8	0.8	6.702

< >

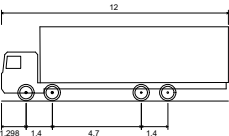
< >

Appendix G

(Swept Path Assessments)



Rev	Details	Drawn	Checked	Date
A	Scheme and swept paths updated.	MW	AM	25.03.26



Rigid Truck	
Overall Length	12.000m
Overall Width	2.500m
Overall Body Height	3.928m
Min Body Ground Clearance	0.412m
Track Width	2.471m
Lock to Lock Time	6.00s
Kerb to Kerb Turning Radius	11.900m

Notes:
1. This is not a construction drawing and is intended for illustrative purposes only.

Client	-
--------	---

Project	Cyfartha
---------	----------

Drawing Title	Swept Path Analysis Using a 12m Rigid Vehicle
---------------	---

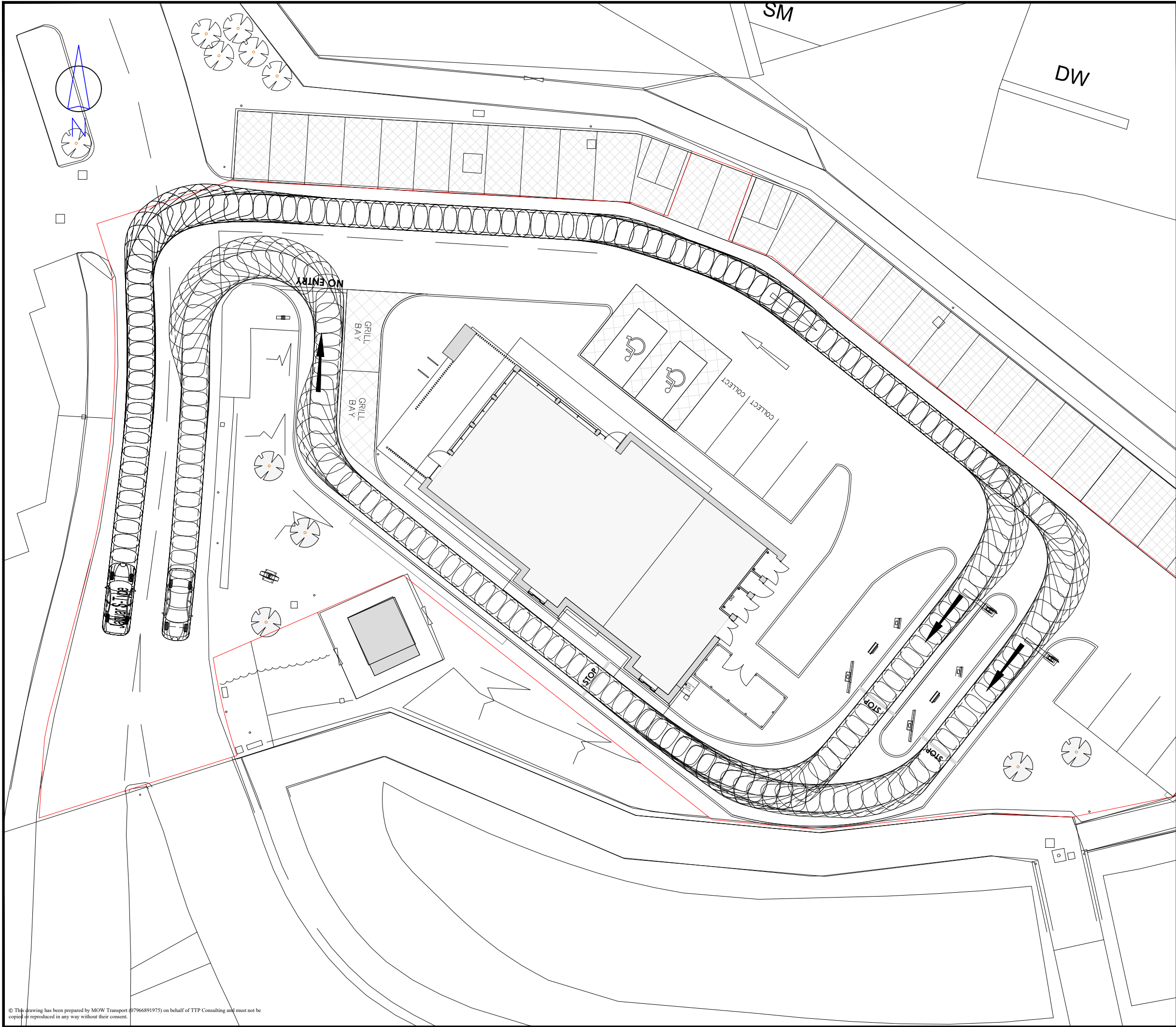
Scale	1:250 at A3
-------	-------------

Drawn	MW	05.02.26
Checked	AM	05.02.26

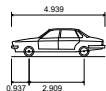


27 Beak Street
London
W1F 9RU
Tel. No. 020 7100 0753

Drawing Number	2026-5600-AT-102	Rev	A
----------------	------------------	-----	---



Rev	Details	Drawn	Checked	Date
A	Scheme and swept paths updated.	MW	AM	25.03.26



Jaguar S-Type	
Overall Length	4.939m
Overall Width	1.878m
Overall Body Height	1.474m
Min Body Ground Clearance	0.259m
Max Track Width	1.544m
Lock to Lock Time	4.00 sec
Kerb to Kerb Turning Radius	6.000m

Notes:
1. This is not a construction drawing and is intended for illustrative purposes only.

Client
-

Project
Cyfartha

Drawing Title
Swept Path Analysis using a Large Car

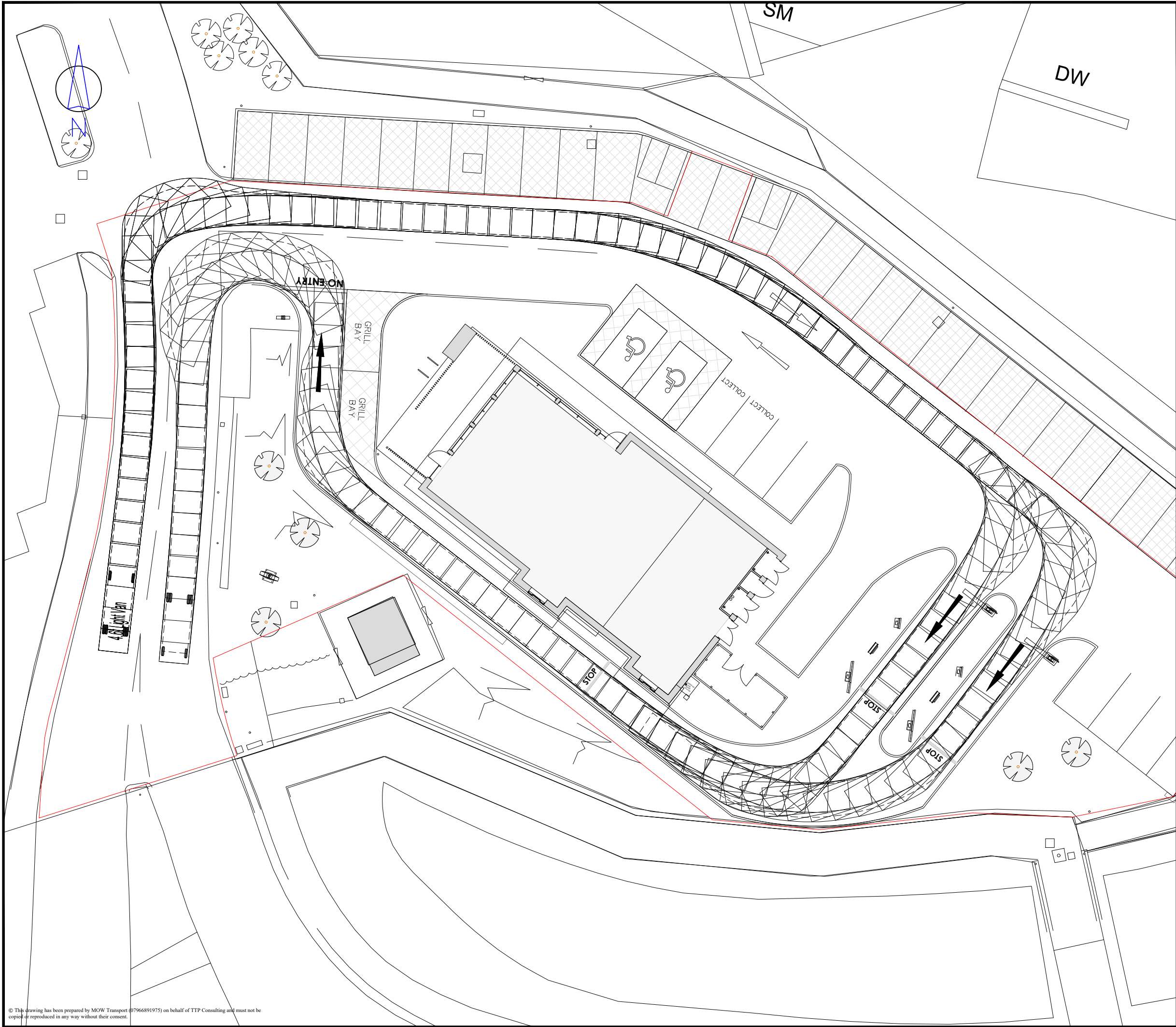
Scale
1:250 at A3

Drawn	MW	05.02.26
Checked	AM	05.02.26

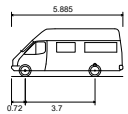


27 Beak Street
London
W1F 9RU
Tel. No. 020 7100 0753

Drawing Number	Rev
2026-5600-AT-103	A



Rev	Details	Drawn	Checked	Date
A	Scheme and swept paths updated.	MW	AM	25.03.26



4.6t Light Van
Overall Length 5.885m
Overall Width 2.000m
Overall Body Height 2.526m
Min Body Ground Clearance 0.299m
Track Width 1.765m
Lock to Lock Time 4.00s
Kerb to Kerb Turning Radius 6.000m

Notes:
1. This is not a construction drawing and is intended for illustrative purposes only.

Client
-

Project
Cyfartha

Drawing Title
Swept Path Analysis Using a 4.6t Panel Van

Scale
1:250 at A3

Drawn	MW	05.02.26
Checked	AM	05.02.26



27 Beak Street
London
W1F 9RU
Tel. No. 020 7100 0753

Drawing Number	Rev
2026-5600-AT-104	A