

FIGURES

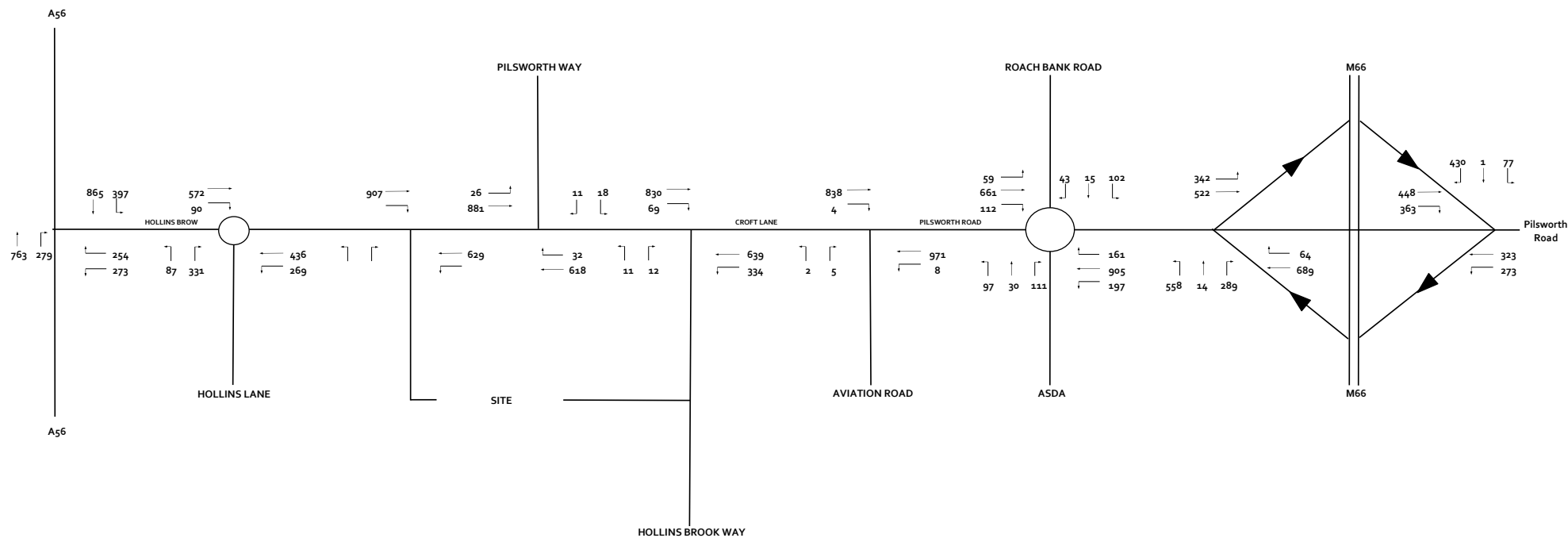


Figure 1 2022 Surveyed Flows - AM Peak (0745-0845)



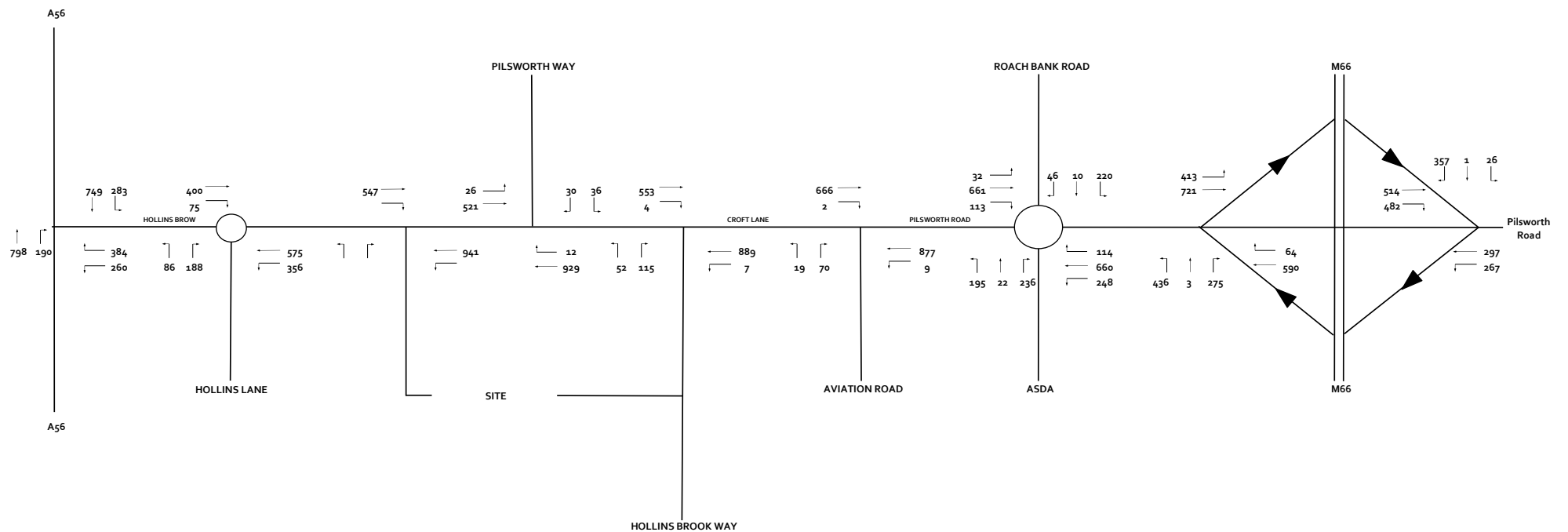


Figure 2 2022 Surveyed Flows - PM Peak (1615-1715)

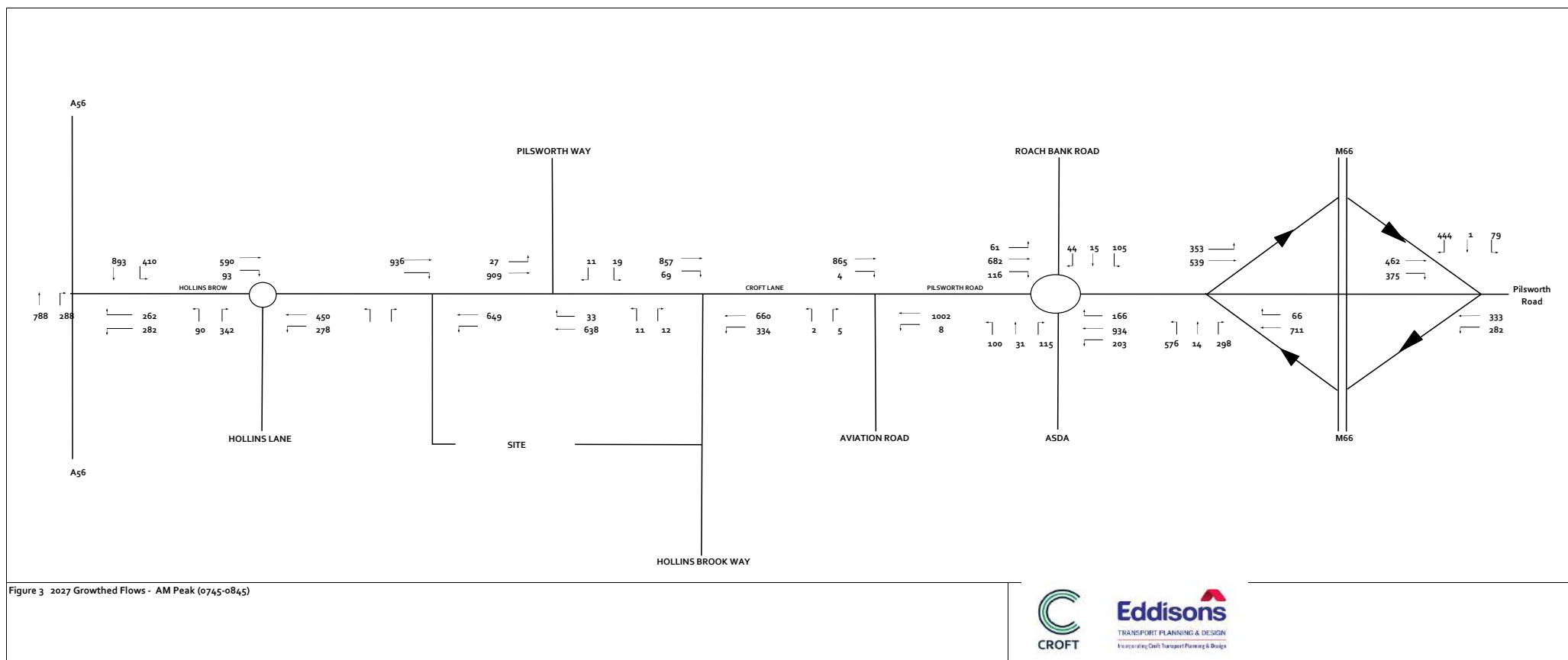
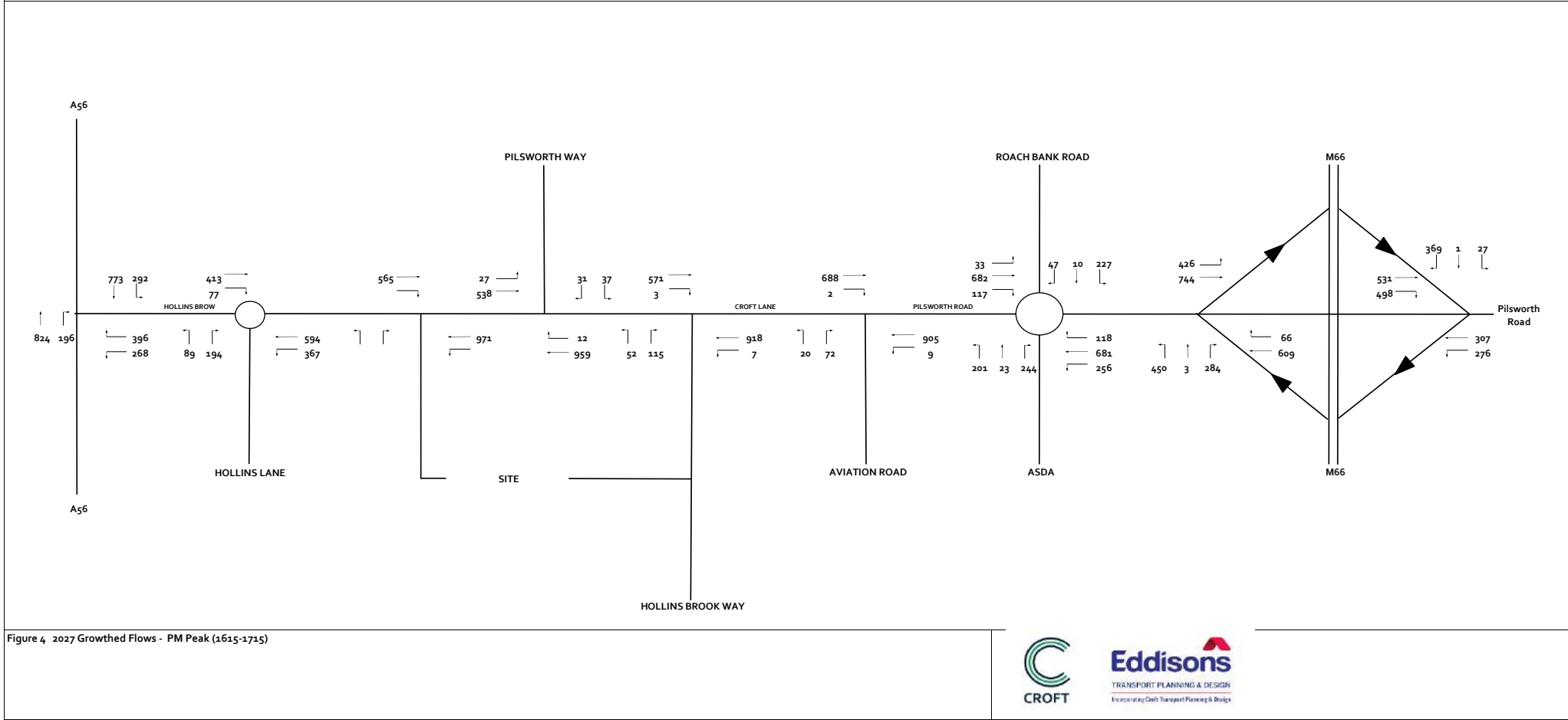


Figure 3 2027 Growth Flows - AM Peak (0745-0845)





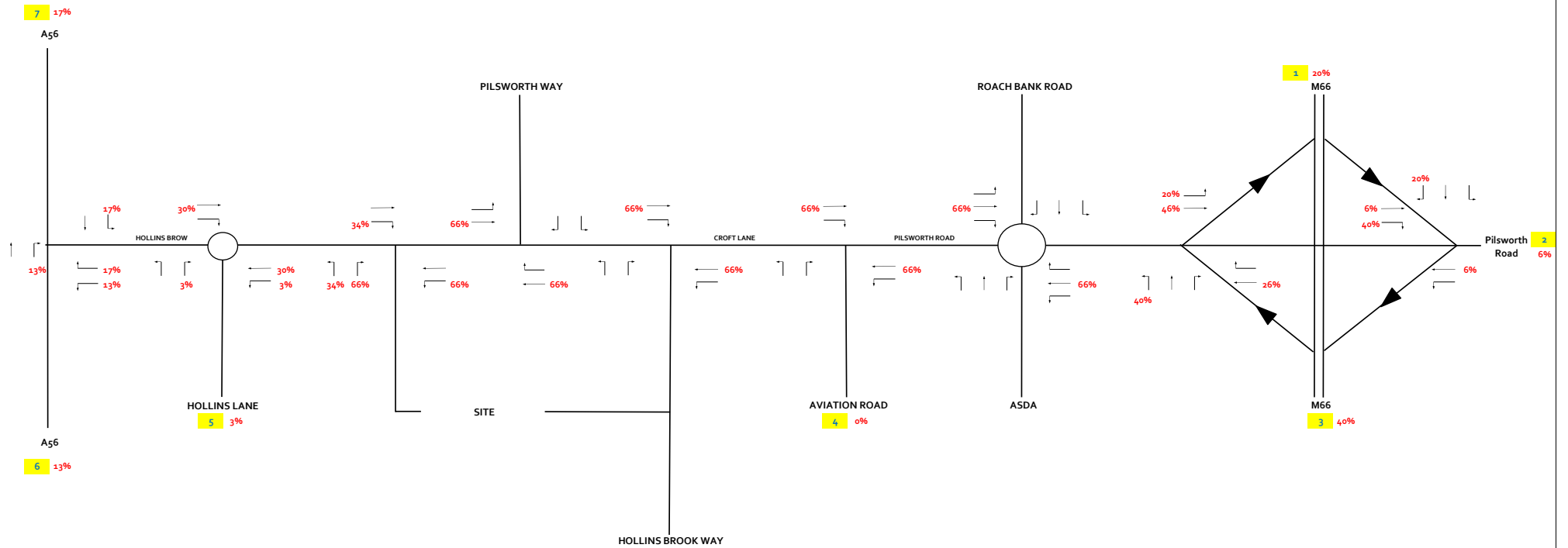


Figure 5 Proposed Creche Development Distribution



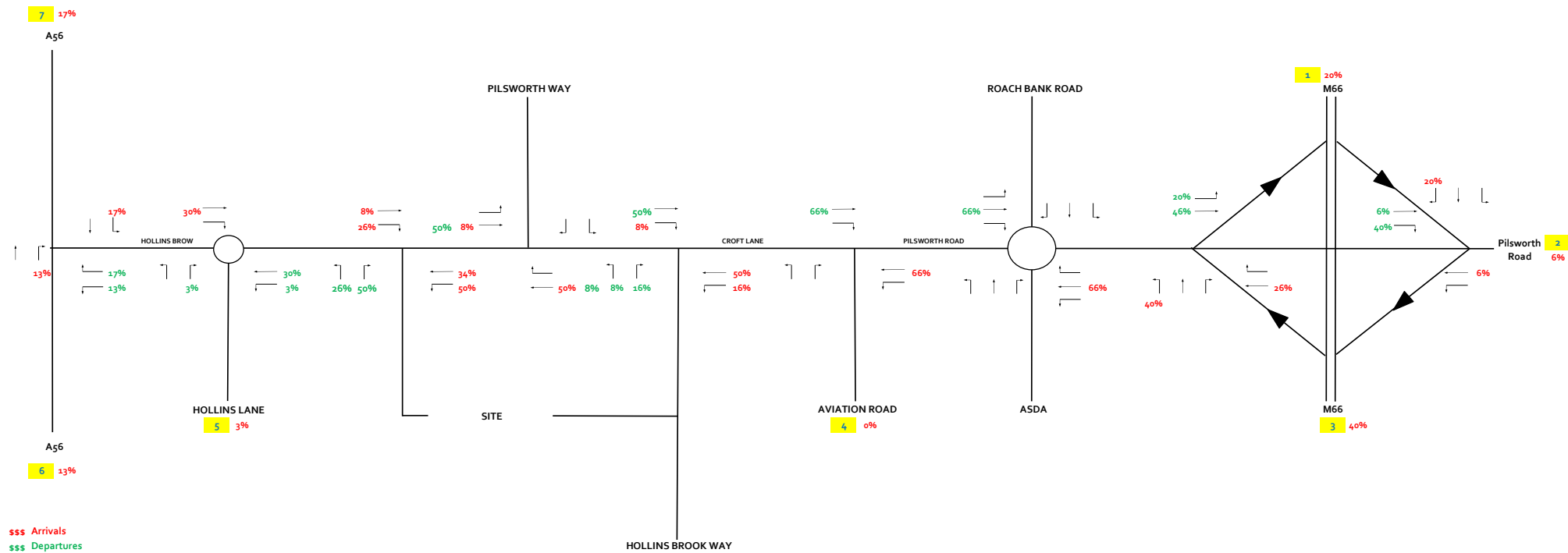


Figure 6 Proposed Hub Development Distribution



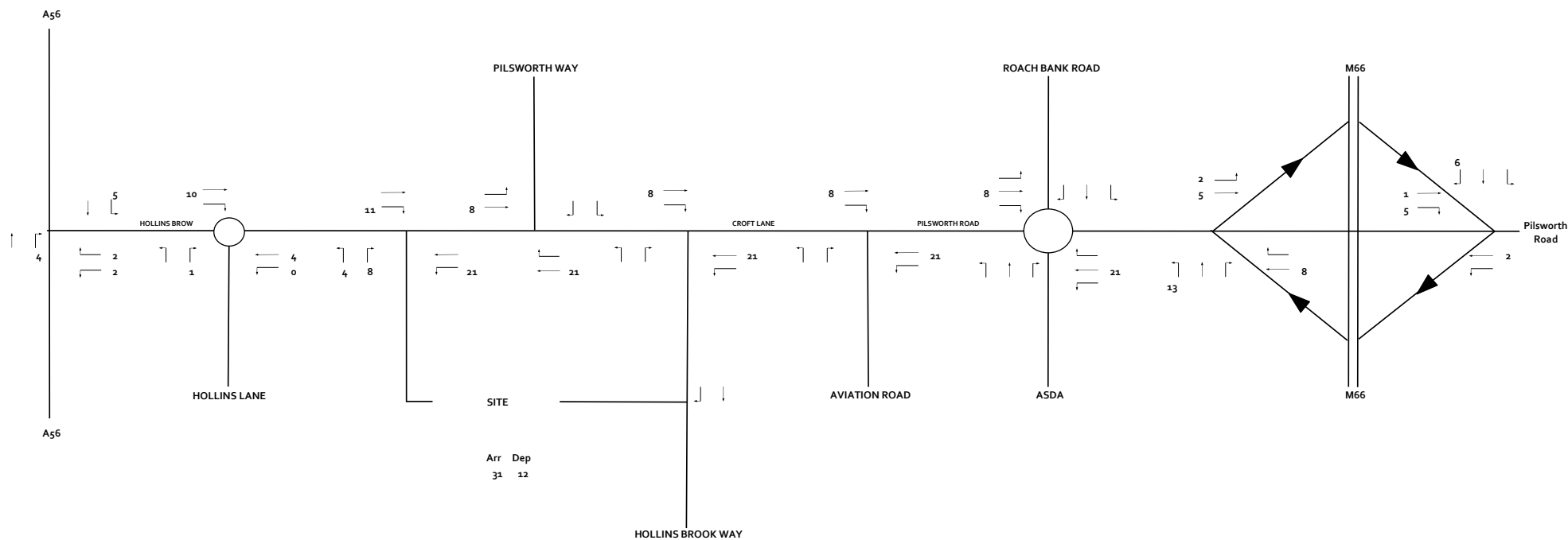


Figure 7 Proposed Creche Development Flows - AM Peak



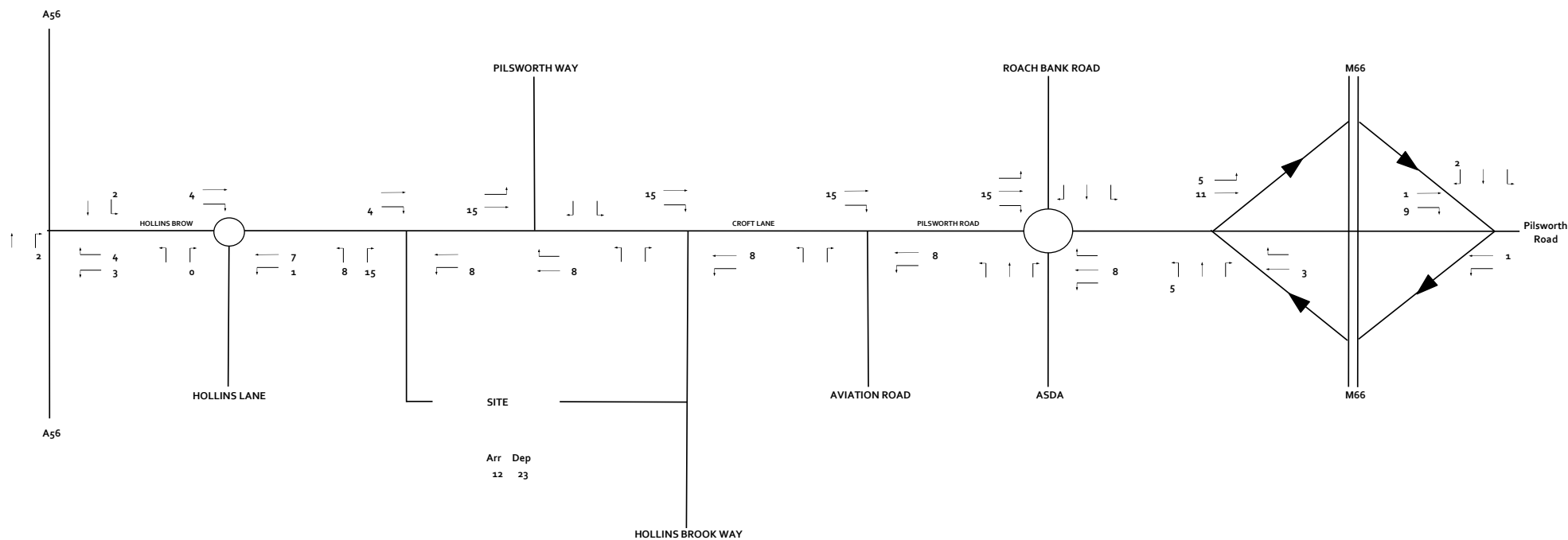


Figure 8 Proposed Creche Development Flows - PM Peak



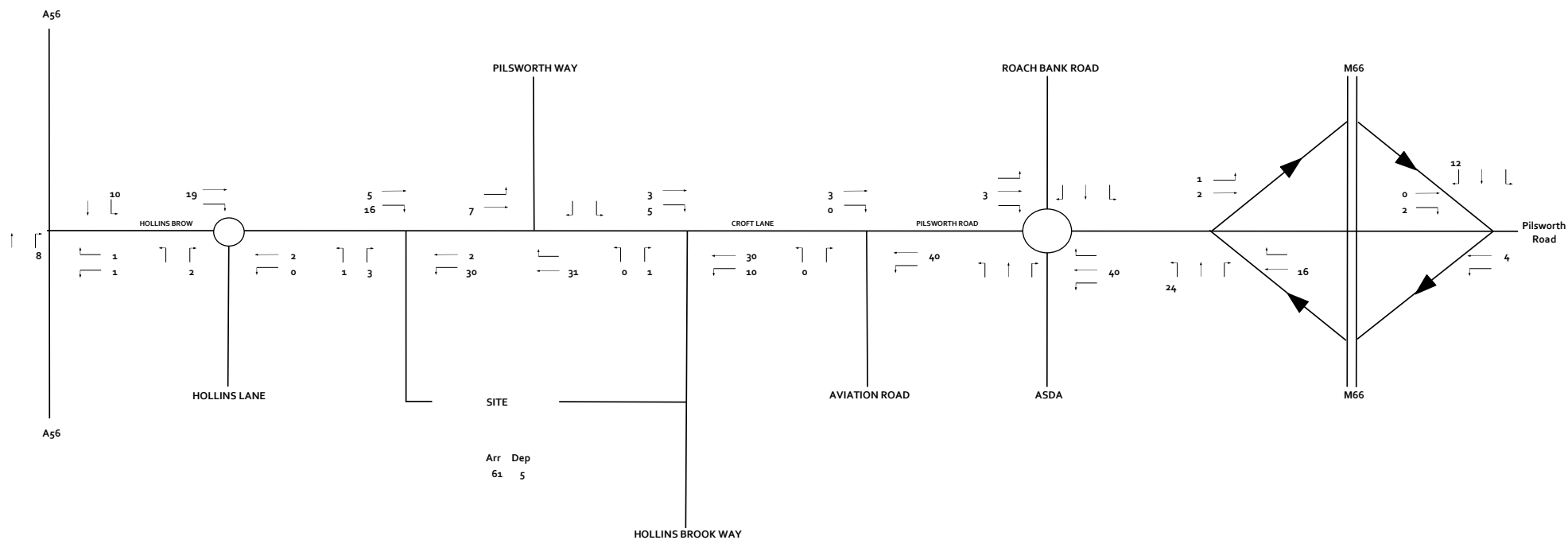


Figure 9 Proposed Hub Development Flows - AM Peak



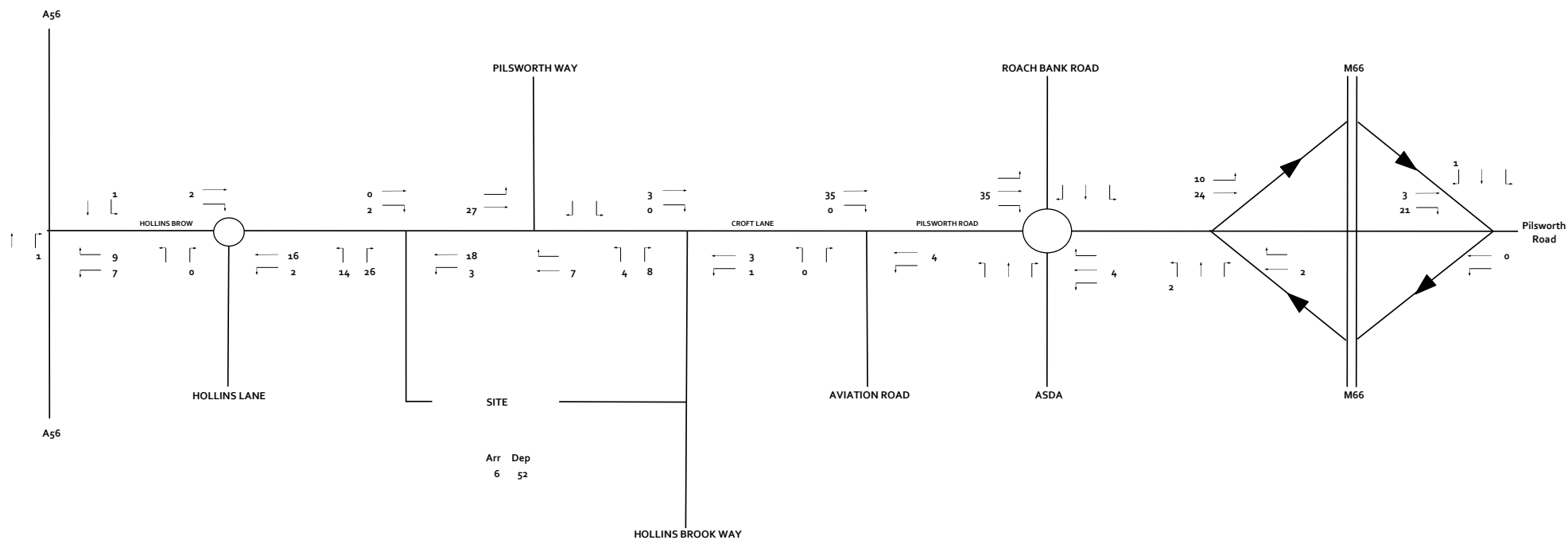
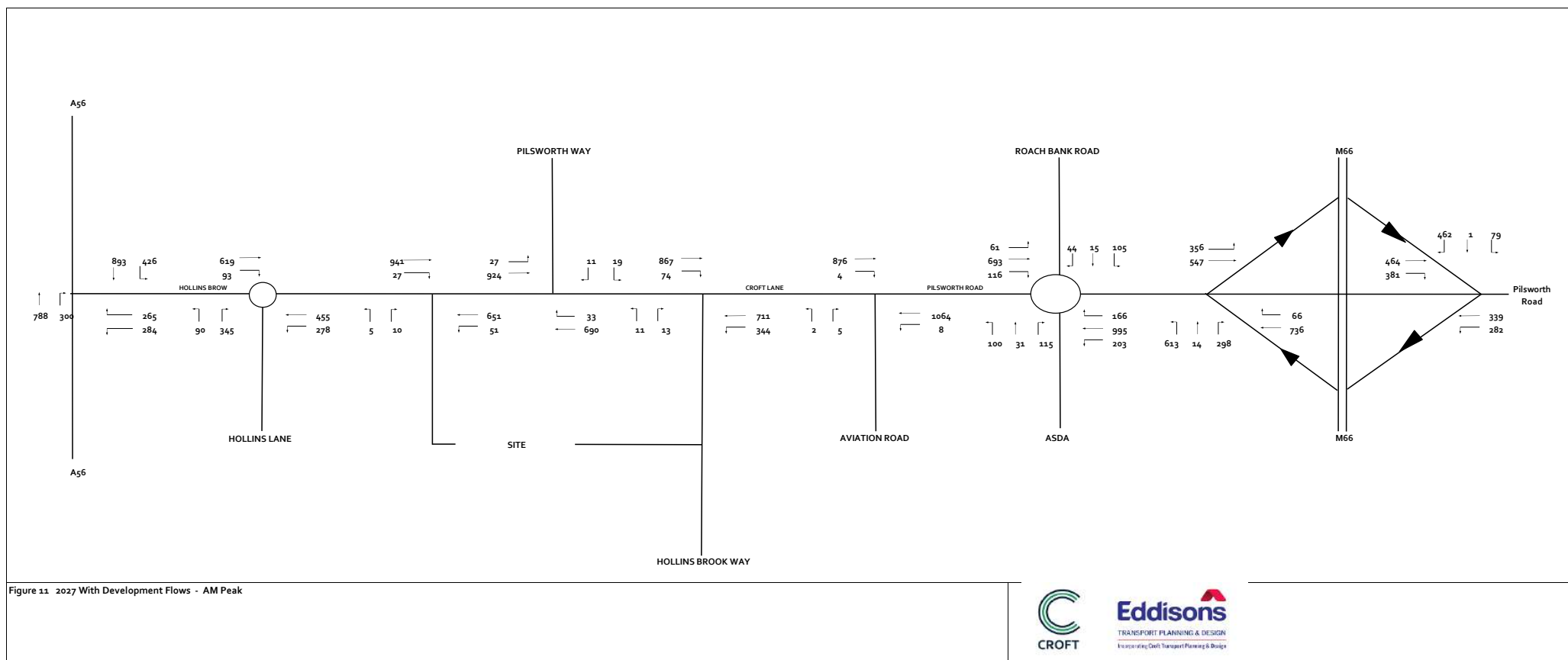


Figure 10 Proposed Hub Development Flows - PM Peak





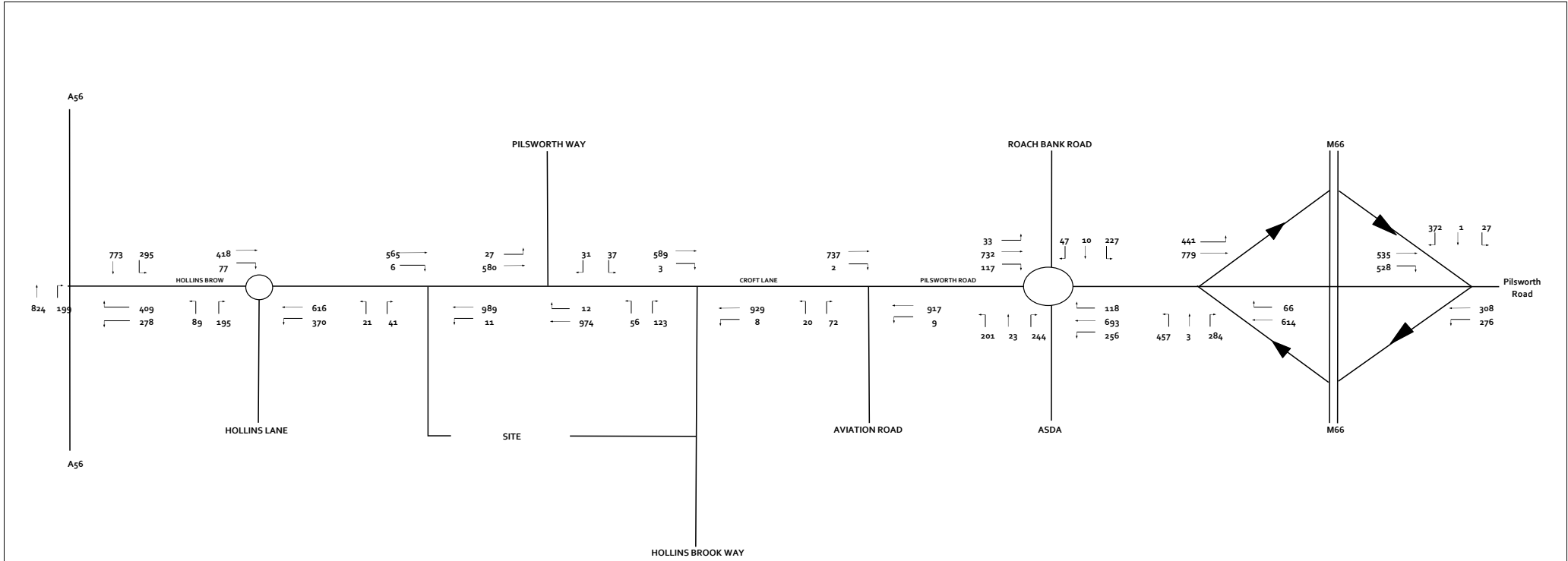


Figure 12 2027 With Development Flows - PM Peak



APPENDICES

APPENDIX 1

Draft Travel Plan Framework

Proposed JD Sports Campus Hub,
Pilsworth Road, Pilsworth

JD SPORTS FASHION PLC

Draft Travel Plan Framework
May 2022





Contents

1	INTRODUCTION.....	1
1.1	Preamble.....	1
1.2	Development Site and Its Location	1
1.3	Vehicular Access.....	2
1.4	Pedestrian and Cycle Access	2
1.5	Plan Administration	3
2	ACCESSIBILITY BY NON-CAR MODES.....	5
2.1	Introduction	5
2.2	Accessibility on Foot.....	6
2.3	Accessibility by Cycle.....	7
2.4	Accessibility by Bus	8
2.5	Accessibility Summary.....	9
3	MANAGEMENT MEASURES	11
3.1	Introduction	11
3.2	Travel Plan Co-ordinator and Travel Plan Action Group	11
3.3	Travel Awareness.....	12
3.4	Baseline Data	12
3.5	Travel Information	13
3.6	Car Sharing Scheme.....	13
3.7	Cycling Measures	13
3.8	New Employee 'Welcome Pack'	14
3.9	Car Park Management.....	15
3.10	Fleet Management and Vehicles.....	15
4	TRAVEL PLAN TARGETS	16
4.1	Introduction	16
4.2	Travel Targets	16
4.3	Potential Targets.....	16
4.4	Travel Plan Framework.....	17
4.5	Plan Monitoring and Assessment	18



Contents

PLANS (See TA)

1 INTRODUCTION

1.1 Preamble

1.1.1 Eddisons have been instructed by JD Sports Fashion PLC to advise on the traffic and transportation issues relating to a planning application for the provision of the JD Sports Campus Hub on land off Pilsworth Road in the Pilsworth area of Bury.

1.1.2 This document sets out a framework for a workplace Travel Plan to be submitted to supplement the planning application.

1.1.3 Planning Practice Guidance 'Travel Plans, Transport Assessments and Statements' advises that *'The primary purpose of a Travel Plan is to identify opportunities for the effective promotion and delivery of sustainable transport initiatives eg walking, cycling, public transport and tele-commuting, in connection with both proposed and existing developments and through this to thereby reduce the demand for travel by less sustainable modes. As noted above, though, they should not be used as way of unfairly penalising drivers.'*

1.1.4 This Travel Plan sets out a framework for employees who will be employed at the site.

1.2 Development Site and Its Location

1.2.1 The development site is located to the east of Bury town centre and south of Heywood. It is bound to the north by Pilsworth Road and to the east by Hollins Brook Way and the existing JD Sports office development. To the south the site is bound by open space which forms part of the Hollins Vale Nature Reserve, whilst residential development bounds the site to the west.

1.2.2 The location of the site in relation to the surrounding area is presented in **Plan 1** of the Transport Assessment.

- 1.2.3 The site layout is included at **Plan 2** of the Transport Assessment.
- 1.2.4 The development proposals are for a hybrid planning application which will provide the following on the site;

Proposed Full Application – Children’s Crèche

- 1.2.5 The Full Planning Application on the site is for the provision of Children’s Crèche with a capacity for up to 120 children. The Crèche will be operated by JD Sports and will be used by staff employed on the existing JD Campus.

Proposed Outline Application – Hub Building

- 1.2.6 The Outline Planning Application seeks planning consent for 7,000 sqm of office space and amenity space (use Class E).
- 1.2.7 The internal arrangement for the hub building is intended to provide a range of amenity uses at ground and first floor for existing employees on the wider campus, meeting spaces for external visitors and employees, and high quality office space at the upper floors.

1.3 Vehicular Access

- 1.3.1 It is proposed that primary vehicular access into the site will be provided for via new priority controlled access off Pilsworth Road, whilst secondary access will be provided via the existing Pilsworth Road/Hollins Brook Way priority controlled junction.

1.4 Pedestrian and Cycle Access

- 1.4.1 It is proposed that access for pedestrians and cyclists will be provided for via the proposed site vehicular access off Pilsworth Road in the form of 2 metre footways located on either side of the carriageway.

- 1.4.2 The proposed footway provision will link with the existing provision located on either side of the Pilsworth Road, as well as the proposed pedestrian infrastructure located within the application site and the existing JD Campus.
- 1.4.3 As part of the development proposals, pedestrian improvements will be provided at the Pilsworth Road/Hollins Brook Way junction in the form of a pedestrian refuge with associated dropped kerbs and tactile paving

1.5 Plan Administration

- 1.5.1 The administration of the Travel Plan will be the responsibility of the applicant, in this case JD Sports Fashion PLC. The developer will be required to designate a Travel Co-ordinator for the development. Essentially this Co-ordinator will provide a liaison in implementing the plan with the employees and Bury Council.
- 1.5.2 Details of the nominated Travel Plan Co-ordinator will be submitted to Bury Council's Travel Plan Officer and the appropriate local bus companies. Similarly, the Co-ordinator will be advised of appropriate contact personnel at the development.
- 1.5.3 The Travel Plan Co-ordinator will be the first point of contact for staff and visitors and other outside organisations in all matters regarding travel. They will maintain an up-to-date file containing all correspondence to and from colleagues and visitors relating to the Travel Plan.
- 1.5.4 The post of the Travel Plan Co-ordinator of the development will be overseen by an employee of JD Sports, in the first instance. Bury Council will be informed of any changes to the contact details of the Travel Plan Co-ordinator.



- 1.5.5 The role of the Travel Plan Co-ordinator will also be to develop and manage the Travel Plan for the site.
- 1.5.6 The duties will include monitoring, reviewing targets and forming action plans to remedy areas where the Travel Plan is not performing. Annual progress reports will be prepared and submitted to Bury Council.
- 1.5.7 An annual budget allocation would be made available to manage the Plan, with the site Travel Plan Co-ordinator responsible for expenditure and budget control. The annual budget will be set and agreed with Bury Council's Travel Plan Officer.

2 ACCESSIBILITY BY NON-CAR MODES

2.1 Introduction

2.1.1 In order to accord with the aspirations of the NPPF, any new proposals should extend the choice in transport and secure mobility in a way that supports sustainable development.

2.1.2 The presumption in favour of sustainable development is a central theme running through the framework and transport planning policies are seen as a key element of delivering sustainable development as well as contributing to wider sustainability and health objectives. To achieve these objectives, paragraph 30 states that when making decisions, local authorities should:

'Support a pattern of development which, where reasonable to do so, facilitates the use of sustainable modes of transport.'

2.1.3 One of the core principles of the NPPF is to *'actively manage patterns of growth to make the fullest use of public transport, walking and cycling and focus significant development in locations which are or can be made sustainable.'*

2.1.4 New proposals should therefore attempt to influence the mode of travel to the development in terms of gaining a shift in modal split towards non-car modes, thus assisting in meeting the aspirations of current national and local planning policy.

2.1.5 The accessibility of the proposed site has been considered by the following modes of transport:

- accessibility on foot;
- accessibility by cycle;
- accessibility by bus;

2.2 Accessibility on Foot

- 2.2.1 It is important to create a choice of direct, safe, and attractive routes between where people live and where they need to travel in their day-to-day life. This philosophy clearly encourages the opportunity to walk whatever the journey purpose and also helps to create more active streets and a more vibrant neighbourhood.
- 2.2.2 Existing footways of around 2 metres in width are located along Pilsworth Road, which provide pedestrian linkages to the existing Asda and Park 66 Retail Park to the north and the residential areas of Pilsworth and Hollins to the south.
- 2.2.3 To the north, pedestrian crossing facilities in the form of a pedestrian refuge, dropped kerbs and tactile paving are provided for on the Park 66 Retail Park arm of the Pilsworth Road/Roach Bank Road/Park 66 roundabout. Whilst to the south of the site dropped kerbs are provided on all major junctions along Pilsworth Road/Croft Lane.
- 2.2.4 As part of the proposed development it is proposed to provide pedestrian improvements on the Hollins Brook Way arm of the Pilsworth Road/Hollins Brook Way junction, in the form of a pedestrian refuge, dropped kerbs and tactile paving.
- 2.2.5 The CIHT document 'Planning for Walking' from 2015 states, in paragraph 2.1, that in 2012 that 79% of all journeys made in the UK of less than a mile (1.6 kilometres) are carried out on foot.
- 2.2.6 **Plan 5** shows the pedestrian catchment for 2 kilometres from the centre of the site and provides an illustrative indication of the areas that can be reached based on a leisurely walk from the site.

2.2.7 The 2 kilometre catchment encompasses the surrounding residential areas of Hollins, and Blackford Bridge as well as areas of Unsworth and Sunnybank, showing that the proposed development is within walking distance of a number of existing residential areas, which will provide the opportunity for staff to travel to the proposed development by foot, therefore reducing the reliance on the private car.

2.2.8 Based on the above the site can therefore be considered as being accessible by foot.

2.3 Accessibility by Cycle

2.3.1 An alternative mode of travel to the site could be achieved by bicycle.

'The Cycling England document 'Integrating Cycling Into Development Proposals' advises that 'For short trips, [cycle links] can give cyclists significant advantages over car users in terms of convenience and journey time... Most cycle journeys for non-work purposes and those to rail stations are between 0.5 and 2 miles, but many cyclists are willing to cycle much further. For work, a distance of 5 miles should be assumed.'

2.3.2 A distance of 5 kilometres is generally accepted as a distance where cycling has the potential to replace short car journeys. This distance equates to a journey of around 25 minutes based on a leisurely cycle speed of 12 kilometres per hour and would encompass large areas of Bury as well as the areas of Radcliffe, Prestwich, Whitefield and Heywood.

2.3.3 The site can therefore be considered as being accessible by cycle.

2.4 Accessibility by Bus

- 2.4.1 The nearest bus stop to the site is located to the north-east of the site on Pilsworth Road, a walking distance of around 200 metres from the centre of the site. Further bus stops are situated on Pilsworth Road/Croft Lane, and all bus stops within 400 metres of the site are shown on **Plan 5**.
- 2.4.2 Safe pedestrian access to these bus stops is provided for via the existing pedestrian footways on Pilsworth Road.
- 2.4.3 A summary of the services available from these bus stops are provided in **Table 2.1** below.

Service No	Route	Monday – Friday (per hour)				Sat	Sun
		AM Peak	Midday	PM Peak	Eve		
92/93	Bury – Unsworth – Whitefield – Manchester Shudehill	Hourly service between 2135 and 0000 hours				Hourly between 2135 and 2335	Hourly between 2035 and 2335
94	North Manchester Hospital – Prestwich – Unsworth – Bury	1	1	1	1	1	0.5

Table 2.1 - Existing Bus Services in Vicinity of the Site

- 2.4.4 As can be seen from Table 2.1, the nearest bus stops to the site provide services to locations such as Bury town centre, Manchester Shudehill, Unsworth, Whitefield, Higher Crumpsall and Prestwich.

- 2.4.5 The 94 bus service operates from around 0605 hours to around 1800 hours making travel by public transport a real alternative to travelling by car for commuting trips.
- 2.4.6 In order to demonstrate the level of accessibility, some example journey times by bus are presented below **Table 2.2** below.

Destination	Duration
Bury	19 minutes
Higher Crumpsall	26 minutes
Prestwich	30 minutes

Table 2.2 - Example Bus Journey Times from the Site

- 2.4.7 The above table demonstrates that Bury town centre is an approximate 19 minute bus journey from the site and Prestwich is a 30-minute bus journey.
- 2.4.8 Therefore, the bus services located within the vicinity of the site provide services to and from Bury and the surrounding areas throughout the day and provide the opportunity for staff to travel to and from work by bus.
- 2.4.9 It is therefore concluded that the proposed development site is accessible by bus.

2.5 Accessibility Summary

- 2.5.1 The proposals have been considered in terms of accessibility by non-car modes for the proposed development site. The following conclusions can be drawn from this section of the Report:
- The site is accessible by foot. The existing infrastructure will provide pedestrian linkages with the surrounding areas of Pilsworth and Hollins.



- The site's location will encourage pedestrian trips for staff between the proposed development and the local residential areas.
- The site is accessible by bus with bus stops located within 400 metres of the site, these services provide access to Bury, Prestwich, Whitefield and North Crumpsall.

2.5.2 In light of the above, the site is accessible and will cater for needs of the development and assist in promoting a choice of travel modes other than the private car.

3 MANAGEMENT MEASURES

3.1 Introduction

3.1.1 The following measures will be delivered through the Travel Plan by the Travel Plan Co-ordinator.

- i. Appointment of a Travel Plan Co-ordinator and creation of Travel Plan action group;
- ii. Ensuring travel awareness,
- iii. Baseline data;
- iv. Ensuring the availability of travel information,
- v. The establishment of a car sharing scheme,
- vi. Implementation of measures to encourage cycling;
- vii. Provision of a new employee 'Welcome Pack'.
- viii. Introduction of Car Park Management,
- ix. Fleet Management and Vehicle's

3.2 Travel Plan Co-ordinator and Travel Plan Action Group

3.2.1 A Travel Plan Co-ordinator will be appointed prior to the proposed development commencing operation.

- 3.2.2 Once the site is fully operational an Action Group will be created which involves the Travel Plan Co-ordinator, other employees as appropriate, relevant authorities and special interest groups.

3.3 Travel Awareness

- 3.3.1 Employees will be made aware of the existence of the Travel Plan and a copy will be made available to Bury Council.
- 3.3.2 Welcome Packs/Starter Packs will be given to new employees when they start work at the site.
- 3.3.3 Targets for achieving a lower mode share by car and reducing the level of car usage by a given extent over a certain period will be established. These targets will be set upon occupation of the store following results of the employee travel survey.

3.4 Baseline Data

- 3.4.1 In order to set the targets, information will have to be obtained in order to establish against which to set the targets. In order to define baseline data prior to occupation, this information will be related to existing patterns of movement (i.e. the proportion of employees who travel to their workplace by non-car mode) and may be obtained from sources such as the National Travel Survey and the National Census.
- 3.4.2 In order to establish the existing travel patterns of employees once occupied, a travel survey will be carried out and will form the basis of the final Travel Plan document. This will survey, amongst other issues, current employee travel patterns to and from work.
- 3.4.3 The availability of this data will assist in more accurately defining travel requirements and the specific measures to be implemented to maximise the success of the plan.

3.5 Travel Information

- 3.5.1 Travel Information for employees could be provided for in numerous ways, such as websites, newsletters and cycle and walking maps for the surrounding areas. Employees could also be provided with personalised journey planners.
- 3.5.2 In addition, information on existing key local services and publicity material from Traveline will be included.

3.6 Car Sharing Scheme

- 3.6.1 The Travel Plan Co-ordinator will promote the use of car sharing scheme and employees will be encouraged to register on the Liftshare website.
- 3.6.2 This allows users to register their details, where they are travelling to in the Pilsworth area and if they are offering a lift or require a lift to their destination.
- 3.6.3 Regular leaflets will be distributed to employees to allow potential car sharers to register an interest. The Travel Plan Co-ordinator will be required to maintain a database of employees who register an interest in car sharing and will be required to facilitate success of the scheme.

3.7 Cycling Measures

- 3.7.1 The proposed development will provide cycle parking spaces. As the site is still at outline design stage the exact provision is not known at this time but this will be agreed at a more advanced stage of the planning process.

- 3.7.2 The Travel Information Brochure provided to staff will include details on cycling to the site, including the location of designated safe cycle routes and where these can be accessed, and the location of cycle parking on the site. Similar information will also be provided on staff noticeboards and will be distributed using other mediums as appropriate.
- 3.7.3 The Travel Plan Co-ordinator will establish contact with Bury Council/TfGM cycling officers and will retain active contact with officers to ensure that any future improvements to the cycling network and cycling maps are fed through to staff.
- 3.7.4 The employee travel survey will identify the potential for cycling amongst the workforce. The Travel Plan Co-ordinator could produce information relating to cycling routes in the area which could be included within a 'Welcome Pack'.
- 3.7.5 Should sufficient interest exist, the Travel Plan Co-ordinator will explore the opportunity to establish a Bike User Group (BUG).
- 3.7.6 Should end occupiers participate in the Cycle to Work Scheme (or similar), the Travel Plan Co-ordinator will ensure this is publicised to staff, including via the Welcome Pack.
- 3.7.7 End occupiers will also consider the opportunity to provide pool bicycles.

3.8 New Employee 'Welcome Pack'

- 3.8.1 A 'Welcome Pack' will be provided to employees starting work at the site. The pack will include information contained within the Accessibility section of this Travel Plan.
- 3.8.2 The 'Welcome Pack' will include details on the intentions of the Travel Plan and why the Travel Plan has been produced, as well as contacts for the Travel Plan Co-ordinator. The packs will include current information on walking and cycling routes in the area and information on current bus/rail services, i.e. timetables.

- 3.8.3 In addition, employees will be offered personalised journey planners as an on-going part of the monitoring process the 'Welcome Pack' will be reviewed and updated annually. Information regarding any changes to the bus services in the area will be passed to employees via leaflets or a company website.

3.9 Car Park Management

- 3.9.1 The Travel Plan Co-ordinator will encourage each occupier to consider the implementation of a car park management strategy.

3.10 Fleet Management and Vehicles

- 3.10.1 Measures which can be delivered regarding fleet management and vehicles will depend greatly upon the organisation of each end occupiers. However, where possible occupiers should consider opportunities for:

- Review of company car policy;
- Reviewing business vehicle mileage rates;
- Driver training to encourage eco-driving;
- Use of efficient or electric fleet vehicles;
- Use of clean fuel fleet vehicles, and
- Review of company car policy;

4 TRAVEL PLAN TARGETS

4.1 Introduction

4.1.1 This section of the Travel Plan will provide details of the targets against which the success of the Plan in achieving its objectives will be measured.

4.1.2 These targets are designed to be quantifiable, be relevant to both measures and objectives identified in the Plan and to include timescale.

4.2 Travel Targets

4.2.1 As previously stated, in order to define baseline data prior to occupation, reference will be made to existing patterns of movement, which may be obtained from sources such as the National Travel Survey and the National Census.

4.2.2 Based on this data, suitable targets for reducing the need to travel by private car will be set and agreed with Bury Council's Travel Plan Officer. Targets should be detailed in terms of both percentage mode share and actual trip numbers.

4.2.3 Thereafter, the main source of baseline information would however come from the employees travel survey, which will be completed 6 months post full occupation of the development and will be completed every two years thereafter.

4.3 Potential Targets

4.3.1 Targets that may potentially be included in the Travel Plan include the following:

- Certain percentage of employees who travel to work by non-car modes. This is to be achieved within a 5 year timeframe of the development commencing operation and continue at the same level thereafter;

- Certain percentage model shift of employees on the proposed development away from the public car to non-car modes. To be achieved within the 5 year timeframe discussed below;
- Certain percentage decrease in the number of single occupancy journeys to and from the site by employees;
- Certain percentage increase in the number of employees joining and participating in the car share scheme. This will be reviewed and re-evaluated annually to promote the objectives of the Travel Plan.

4.3.2 Whilst it is considered that the Travel Plan targets should be challenging, it is essential that they are also realistic and achievable.

4.3.3 Experience suggests that a Travel Plan containing only marketing and promotional initiatives is unlikely to achieve a shift in the mode of travel used, whereas one also incorporating car sharing and cycle measures may achieve a 3% to 5% reduction in single occupancy car-based commuting. Further shifts to public transport, walking and cycling away from private car use may be achieved through the above measures being supplemented by other initiatives. It is clear, therefore, that in making a meaningful contribution to the achievement of the above targets, the Travel Plan must incorporate a range of initiatives that go beyond marketing and promotion.

4.4 Travel Plan Framework

4.4.1 Table 4.1 below provides a framework and guidance as to timescales for the Travel Plan.

Timescale	Action
3 months prior to occupation	Appoint Travel Plan Co-ordinator.
Prior to occupation	Establish baseline data and agree modal split targets with Bury Council
0-6 months	Organise Travel Plan Action Group; Complete employee travel surveys; Establish modal user groups (such as car share clubs, bike user clubs, taxi share clubs).
6-12 months	Submission of revised Travel Plan and modal split targets to Bury Council; Continuous updating of Travel Plan database; Continuous updating of all public transport information.
12+ months	Update and monitor travel questionnaire annually; The Travel Plan will be in place for the life of the development.

Table 4.1 – Travel Plan Framework Timescales

4.5 Plan Monitoring and Assessment

- 4.5.1 The Travel Plan Co-ordinator will be responsible for on-going monitoring and regular employee travel surveys. These will assess the travel habits of employees to the site and thus enable the success of the Travel Plan.

- 4.5.2 In order to assess the travel habits, all employees will be asked to complete an annual survey. Principally these surveys will aim to establish the location of employees, how they currently travel to the site and what other modes of transport they would consider using to travel to the site.
- 4.5.3 Each survey will result in an annual monitoring report, which will present results and progress. Any problems will be identified and specific actions noted and carried forward to the next annual report.
- 4.5.4 In addition to snap shot surveys, full employee surveys will be completed between every 2 to 3 years. These surveys will provide a more in-depth understanding of colleague travel habit, shift patterns and options that would encourage employees to travel by sustainable modes.
- 4.5.5 The timescale for Travel Plan reviews and repeat travel surveys will be included within the Final Travel Plan. However, it is anticipated that these reviews should occur annually to provide on-going information on the impact of the Plan. Monitoring should take place over a wide range of time periods to reflect the different pattern of journeys that can be generated by the development.
- 4.5.6 The monitoring will include items such as:
- Full employee surveys to be completed between every 2 to 3 years, in addition to snap shot surveys which will be completed every 12 months;
 - Feedback from bus operators to establish demand for local bus services;
 - Monitoring of the usage of employee cycle parking facilities;
 - Car park and traffic count surveys;

- Information gathered as part of the continuous monitoring process will be made available to the local authority to assist the assessment of ongoing modal split.

4.5.7 The monitoring and assessment of the plan will include the submission of annual progress reports detailing the results of the travel surveys with regards to targets, budgets, general effectiveness and current initiatives. An annual report is to be submitted to the local authority no later than one month following the anniversary of the approval of the Travel Plan. This will allow effective measures to be promoted and increased while ineffective measures can be revised and rectified.

4.5.8 Mitigation measures/new initiatives for the coming year will also be contained within the report and submitted to officers at Bury Council.

APPENDIX 2

Traffic Count Data

SURVEY CONTROL

Client: Eddisons

Client Contact: Tom Bentley

Survey Location: Pilsworth

Date(s) of Survey: Wednesday 2nd February 2022

Notes:

On Site Supervisor: David Cheng

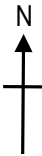
Data Checking: David Cheng

Survey Reference: 21.098 Pilsworth

Status: Final

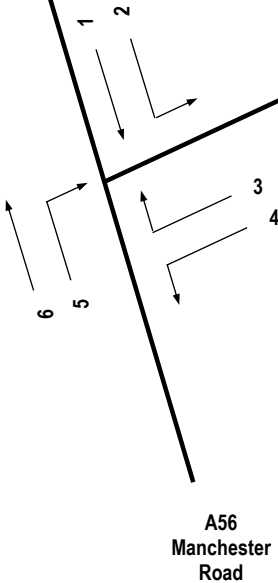
Date of Issue: 10th February 2022

JUNCTION 1



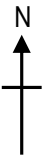
A56
Manchester
Road

Hollins
Brow



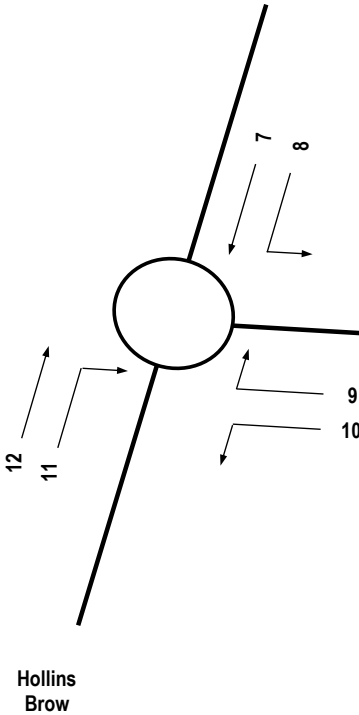
A56
Manchester
Road

JUNCTION 2



Croft
Lane

Hollins
Lane



Hollins
Brow

DRAWING TITLE

TRAFFIC MOVEMENT REFERENCE

JOB TITLE

21.098 PILSWORTH

DRAWN BY
DC

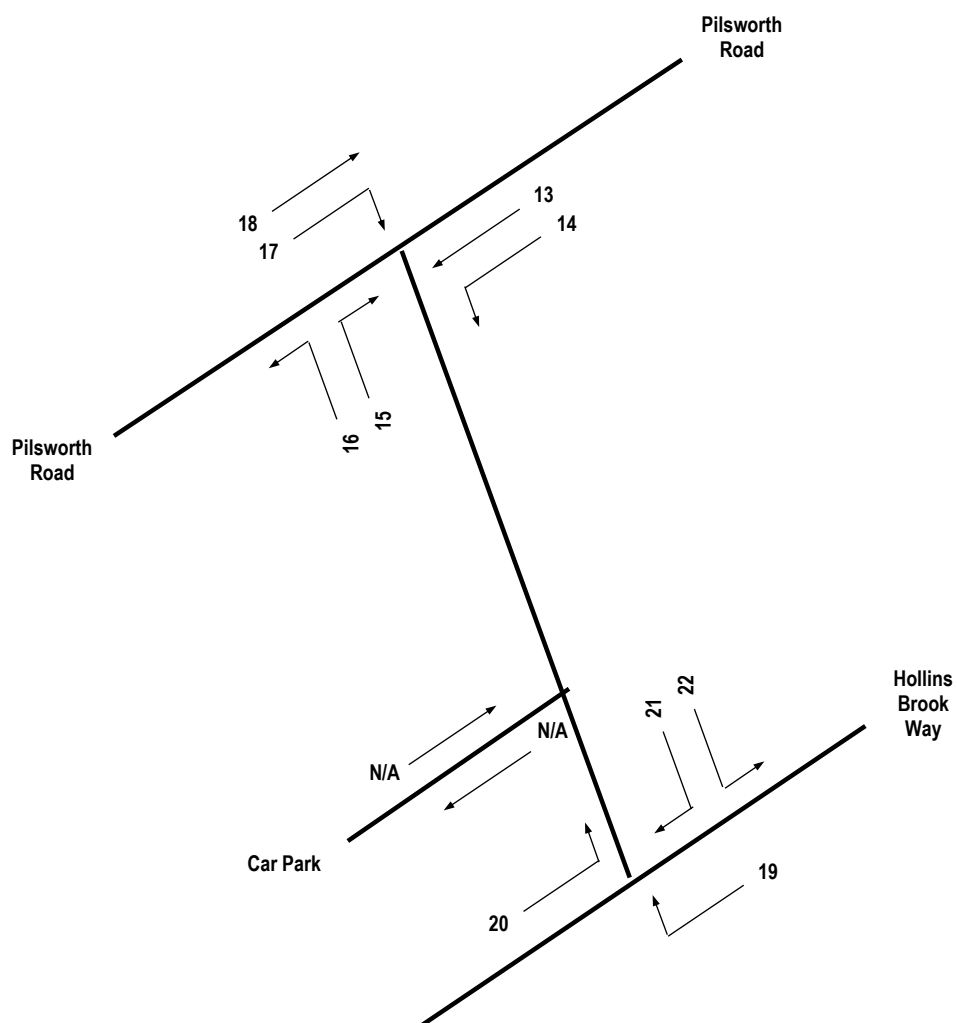
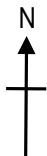
DATE
FEB 2022

SCALE
NTS

REF
FIGURE 1

signal surveys

Traffic Counts and Car Park Surveys
Parkway House, Palatine Road, Northenden, Manchester,
M22 4DB
Tel 0161 998 4226



DRAWING TITLE

TRAFFIC MOVEMENT REFERENCE

JOB TITLE

21.098 PILSWORTH

DRAWN BY

DC

DATE

FEB 2020

SCALE

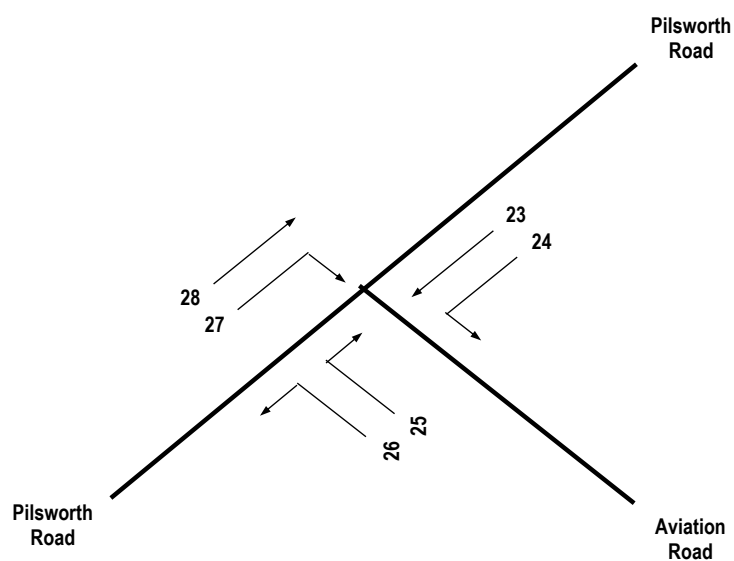
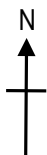
NTS

REF

FIGURE 2

signal surveys

Traffic Counts and Car Park Surveys
 Parkway House, Palatine Road, Northenden, Manchester,
 M22 4DB
 Tel 0161 998 4226



DRAWING TITLE

TRAFFIC MOVEMENT REFERENCE

JOB TITLE

21.098 PILSWORTH

DRAWN BY

DC

DATE

FEB 2020

SCALE

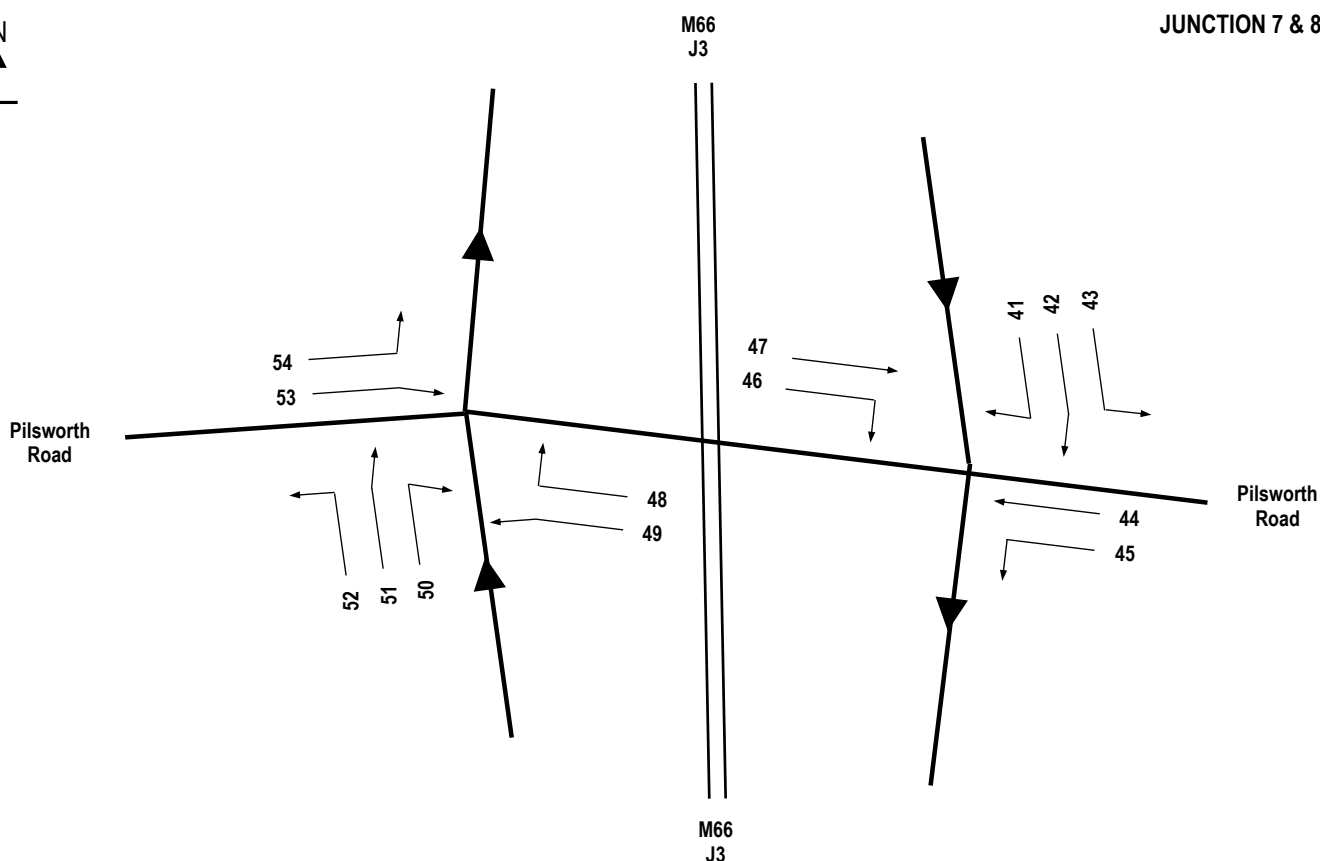
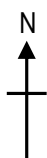
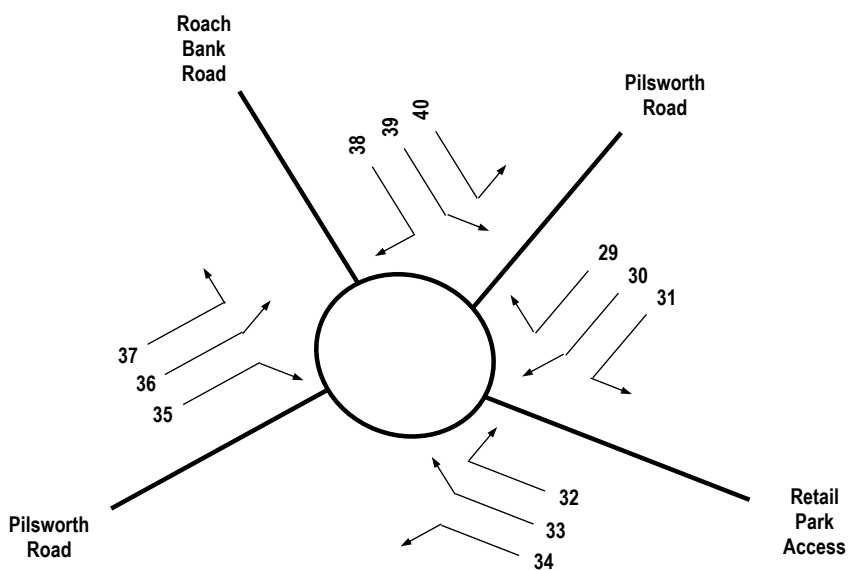
NTS

REF

FIGURE 3

signal surveys

Traffic Counts and Car Park Surveys
 Parkway House, Palatine Road, Northenden, Manchester,
 M22 4DB
 Tel 0161 998 4226



DRAWING TITLE

TRAFFIC MOVEMENT REFERENCE

JOB TITLE

2019.114 PILSWORTH

DRAWN BY

RA

DATE

JUN 2019

SCALE

NTS

REF

FIGURE 4

signal surveys

Traffic Counts and Car Park Surveys
Parkway House, Palatine Road, Northenden, Manchester,
M22 4DB
Tel 0161 998 4226

Time Beginning	A56/Hollins Brow - Wednesday 2nd February 2022											
	1		2		3		4		5		6	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
0730	171	10	101	4	48	1	53	1	64	2	155	9
0745	203	7	97	4	61	1	57	1	72	1	200	9
0800	199	5	86	1	65	4	66	3	74	2	190	7
0815	192	7	86	6	55	3	64	4	57	2	160	4
0830	209	12	102	2	55	1	62	4	64	1	153	10
0845	156	15	58	3	86	1	64	1	66	0	175	6
0900	136	9	60	3	81	3	54	3	66	0	170	13
0915	145	11	61	3	52	7	52	1	42	0	142	12
Time Beginning	A56/Hollins Brow - Wednesday 2nd February 2022											
	1		2		3		4		5		6	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1500	199	8	68	6	58	4	69	1	54	1	168	10
1515	176	6	69	3	84	2	46	1	47	3	206	10
1530	149	9	57	5	85	2	57	1	52	1	217	7
1545	174	6	74	5	92	0	54	0	60	1	172	17
1600	210	6	68	3	107	2	40	1	47	0	169	8
1615	182	6	76	1	94	2	57	1	37	1	167	8
1630	167	5	81	2	91	1	68	2	47	1	179	7
1645	178	9	55	1	99	1	68	1	54	1	181	6
1700	170	6	57	3	88	2	57	1	46	0	215	7
1715	195	4	51	1	88	3	64	0	36	0	211	4
1730	166	4	50	1	113	3	48	1	23	0	185	4
1745	150	5	49	1	78	1	70	0	59	0	227	3
1800	158	5	57	2	78	2	58	1	33	0	190	6
1815	118	3	48	1	67	1	40	0	28	0	176	3

signal surveys

Time Beginning	Croft Lane/Hollins Lane/Hollins Brow - Wednesday 2nd February 2022											
	7		8		9		10		11		12	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
0730	90	1	42	0	71	2	20	1	14	3	145	3
0745	115	2	53	1	65	2	18	1	13	1	151	3
0800	89	6	66	3	74	2	17	1	9	0	153	3
0815	105	4	60	1	87	2	19	3	26	1	127	6
0830	95	4	78	1	91	1	21	1	38	0	109	4
0845	116	1	56	1	87	2	43	1	16	1	123	2
0900	105	4	45	2	69	1	23	0	12	1	104	3
0915	94	6	41	2	46	1	13	1	14	4	94	1
Time Beginning	Croft Lane/Hollins Lane/Hollins Brow - Wednesday 2nd February 2022											
	7		8		9		10		11		12	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1500	107	4	59	1	36	1	20	2	31	0	84	5
1515	99	0	59	0	77	1	21	1	23	1	102	6
1530	119	3	49	2	65	1	30	1	21	3	75	3
1545	121	1	72	1	54	1	20	0	17	1	123	5
1600	132	2	80	0	46	0	18	1	9	1	102	2
1615	122	4	67	4	42	0	21	0	20	1	90	1
1630	161	1	81	0	48	1	19	2	14	0	108	2
1645	140	1	107	1	47	2	14	0	19	1	100	2
1700	134	3	87	2	45	0	26	1	16	1	86	3
1715	142	3	99	2	30	0	11	2	12	1	68	0
1730	145	2	111	0	37	0	11	0	14	1	64	0
1745	128	2	56	0	35	2	12	0	12	1	87	1
1800	108	1	49	1	58	0	18	1	8	0	87	1
1815	105	0	41	0	36	0	7	1	7	1	68	2

signal surveys

Time Beginning	Pilsworth Road/Hollins Brook Way - Wednesday 2nd February 2022											
	13		14		15		16		17		18	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
0730	124	1	42	0	3	0	3	0	14	0	203	4
0745	156	4	66	0	4	0	1	0	22	0	187	5
0800	141	10	90	0	5	0	5	0	16	0	211	7
0815	151	5	99	1	0	0	1	0	18	0	196	9
0830	147	3	77	0	1	1	4	0	13	0	176	9
0845	147	2	40	0	0	0	1	0	6	0	170	4
0900	142	6	29	0	3	0	2	0	2	0	189	3
0915	147	9	16	0	3	0	0	0	0	0	124	3
Time Beginning	Pilsworth Road/Hollins Brook Way - Wednesday 2nd February 2022											
	13		14		15		16		17		18	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1500	148	6	2	0	7	0	4	0	0	0	111	9
1515	149	0	2	0	7	0	2	0	1	0	164	8
1530	169	6	3	0	4	0	2	0	1	0	140	3
1545	151	5	5	0	11	0	3	0	2	0	160	5
1600	199	3	3	0	33	0	9	0	0	0	103	5
1615	167	7	2	0	24	0	8	0	1	0	164	1
1630	238	1	1	0	40	0	20	0	2	0	145	5
1645	213	3	3	0	26	0	11	0	1	0	136	5
1700	237	6	1	0	25	0	13	0	0	0	80	3
1715	219	5	0	0	25	0	9	0	0	0	83	0
1730	196	1	0	0	30	0	10	0	0	0	108	0
1745	152	1	0	0	29	0	10	0	0	0	117	2
1800	146	2	3	0	23	0	3	0	0	0	144	1
1815	129	0	0	0	16	0	3	0	2	0	95	0

signal surveys

Time Beginning	Hollins Brook Way Accesses - Wednesday 2nd February 2022							
	19		20		21		22	
	LV	HV	LV	HV	LV	HV	LV	HV
0730	0	0	4	0	3	0	51	0
0745	1	0	5	0	6	0	81	0
0800	0	0	8	0	8	0	99	0
0815	2	0	0	0	0	0	117	1
0830	4	1	3	0	4	0	90	0
0845	0	0	1	0	1	0	45	0
0900	4	0	3	0	5	0	27	0
0915	1	0	2	0	2	0	13	0
Time Beginning	Hollins Brook Way Accesses - Wednesday 2nd February 2022							
	19		20		21		22	
	LV	HV	LV	HV	LV	HV	LV	HV
1500	10	0	2	0	0	0	1	0
1515	4	0	3	0	0	0	3	0
1530	6	0	0	0	1	0	2	0
1545	14	0	2	0	2	0	6	0
1600	44	0	4	0	3	0	1	0
1615	24	0	1	0	2	0	1	0
1630	58	0	4	0	2	0	1	0
1645	30	0	4	0	2	0	2	0
1700	47	0	1	0	0	0	1	0
1715	27	0	0	0	0	0	0	0
1730	35	0	1	0	0	0	0	0
1745	38	0	0	0	0	0	1	0
1800	25	0	1	0	0	0	1	0
1815	19	0	2	0	2	0	0	0

signal surveys

Time Beginning	Pilsworth Road/Aviation Way - Wednesday 2nd February 2022											
	23		24		25		26		27		28	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
0730	166	1	0	1	1	1	0	0	3	0	203	4
0745	220	4	3	0	1	2	2	0	3	0	188	5
0800	231	10	1	0	0	0	0	0	0	0	216	7
0815	250	6	1	0	0	0	0	0	1	0	195	9
0830	224	3	1	1	0	0	0	0	0	0	177	10
0845	187	2	1	0	0	0	0	0	0	0	170	4
0900	171	6	3	0	0	1	0	0	0	0	192	3
0915	161	9	4	0	2	0	2	0	0	0	127	3
Time Beginning	Pilsworth Road/Aviation Way - Wednesday 2nd February 2022											
	23		24		25		26		27		28	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1500	147	6	2	0	5	0	3	0	0	0	118	9
1515	150	0	2	1	3	0	1	0	0	0	171	8
1530	172	6	4	1	4	1	0	0	1	0	143	3
1545	153	5	1	1	23	0	3	0	0	0	171	5
1600	198	3	1	1	18	0	4	0	2	0	134	5
1615	166	7	3	1	7	0	3	0	0	0	188	1
1630	233	1	0	1	24	0	6	0	0	1	185	4
1645	211	3	0	0	15	0	5	0	0	0	162	5
1700	233	6	0	1	24	0	5	0	0	0	105	3
1715	217	5	0	0	29	0	2	0	0	0	108	0
1730	193	1	0	0	24	0	3	0	0	0	138	0
1745	150	1	0	0	18	0	2	0	0	0	146	2
1800	149	2	0	0	2	0	0	0	0	0	167	1
1815	129	0	0	1	1	0	0	0	0	0	111	0

signal surveys

Time Beginning	Pilsworth Road/Roach Bank Road - Wednesday 2nd February 2022																									
	29		30		31		32		33		34		35		36		37		38		39		40		40R	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
0730	19	1	168	4	40	0	25	0	7	1	15	0	26	0	164	5	11	0	6	5	2	1	23	1	0	0
0745	27	3	217	3	42	0	30	1	1	0	21	0	25	1	151	4	13	0	6	3	3	1	16	1	0	0
0800	45	1	213	8	45	3	28	1	6	0	24	2	25	2	172	8	11	0	7	0	0	0	14	6	0	0
0815	35	1	225	4	50	1	26	1	11	0	29	0	24	3	154	7	14	1	12	1	4	0	20	3	0	0
0830	40	2	210	5	52	0	19	1	12	0	19	0	24	1	134	6	19	0	10	0	6	0	22	5	0	0
0845	56	0	165	2	47	1	33	2	8	0	23	1	25	1	130	2	16	1	8	0	2	0	23	4	0	0
0900	41	3	167	7	60	1	38	0	7	0	23	2	48	2	127	4	12	0	6	5	3	0	15	5	0	0
0915	51	8	132	9	55	0	44	0	4	0	26	0	33	0	88	4	11	0	16	0	5	0	12	6	0	0

Time Beginning	Pilsworth Road/Roach Bank Road - Wednesday 2nd February 2022																									
	29		30		31		32		33		34		35		36		37		38		39		40		40R	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1500	27	2	101	5	62	1	61	3	3	0	44	3	30	1	88	7	6	1	12	0	5	0	40	1	0	0
1515	30	4	110	3	59	0	57	1	8	0	45	0	36	1	130	13	4	0	6	0	4	0	35	3	0	0
1530	32	3	114	4	60	1	70	0	3	0	55	2	36	0	103	4	11	0	11	0	3	0	30	3	0	0
1545	24	10	100	7	56	0	39	0	5	0	51	0	39	1	157	3	9	1	16	0	9	0	40	3	0	0
1600	18	10	137	6	68	2	58	0	6	0	49	2	17	1	117	5	3	0	9	0	3	0	50	4	0	0
1615	14	3	120	11	73	0	44	0	9	0	43	0	33	1	166	3	8	0	8	0	0	0	49	3	0	0
1630	14	5	167	0	64	1	59	1	3	0	51	1	30	0	165	4	8	0	19	0	4	0	51	0	0	0
1645	26	6	164	5	62	0	56	1	3	0	46	1	30	1	174	3	9	2	6	0	5	0	43	3	0	0
1700	18	7	169	4	47	0	73	0	7	0	47	2	16	0	130	3	3	0	13	0	1	0	59	3	12	0
1715	21	4	184	7	59	0	43	0	8	0	31	0	17	0	110	0	1	0	5	0	5	0	47	2	6	0
1730	38	4	131	1	54	0	43	0	6	0	37	0	30	0	148	1	5	0	13	0	3	0	45	2	0	0
1745	23	7	122	2	58	1	53	1	3	0	23	0	34	0	133	0	13	0	9	0	1	0	41	1	0	0
1800	19	5	98	0	55	2	69	0	6	0	31	1	42	2	127	0	13	0	14	0	6	0	42	5	0	0
1815	28	5	85	1	48	0	47	1	8	0	34	0	22	0	76	0	12	0	12	0	6	0	35	4	0	0

signal surveys

Time Beginning	M66 J3/Pilsworth Road - Wednesday 2nd February 2022																											
	41		42		43		44		45		46		47		48		49		50		51		52		53		54	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
0730	90	2	0	0	13	2	66	2	29	21	88	7	82	8	8	3	148	1	27	6	0	1	86	3	143	9	84	1
0745	96	3	0	0	16	3	82	6	33	26	78	8	89	11	7	5	171	4	40	14	1	1	110	3	127	5	66	0
0800	90	2	0	0	19	1	85	6	38	20	91	10	83	12	13	2	162	6	42	9	4	0	146	7	132	13	85	4
0815	105	2	1	0	14	2	72	2	34	9	73	9	76	18	7	3	170	1	43	18	5	0	144	4	106	9	96	2
0830	115	5	0	0	14	1	52	2	32	13	57	5	84	17	11	3	156	4	54	14	2	0	128	1	87	8	75	4
0845	96	0	0	0	15	2	74	2	16	10	74	4	76	18	11	1	159	1	32	16	4	0	118	2	118	6	75	2
0900	88	1	1	0	8	4	69	13	30	23	56	4	74	21	5	6	152	8	36	20	0	0	98	5	94	5	78	3
0915	78	3	1	0	4	2	65	6	15	21	57	6	75	25	7	4	136	5	38	23	1	1	99	11	94	8	56	2

Time Beginning	M66 J3/Pilsworth Road - Wednesday 2nd February 2022																											
	41		42		43		44		45		46		47		48		49		50		51		52		53		54	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1500	66	2	0	0	3	0	52	1	34	25	76	7	74	21	4	1	114	2	23	20	4	0	75	5	127	8	82	7
1515	61	1	1	0	0	1	62	5	24	19	82	7	57	21	3	3	120	3	21	19	1	0	68	5	118	9	89	5
1530	71	1	0	0	2	0	57	3	37	22	67	4	83	27	5	1	123	3	28	24	2	0	91	5	122	7	94	2
1545	63	3	0	0	7	2	45	4	28	17	74	4	79	18	6	1	102	6	31	18	2	0	75	12	122	4	95	2
1600	80	4	0	0	4	2	76	4	59	19	92	2	81	19	23	1	133	7	29	17	1	0	88	9	144	4	81	2
1615	80	3	0	0	2	3	61	1	39	18	112	5	91	13	9	0	132	4	39	13	1	0	83	11	164	5	111	3
1630	86	1	1	0	4	2	70	3	53	10	117	2	94	21	16	1	140	3	38	20	1	0	101	3	173	3	107	1
1645	86	2	0	0	1	2	90	1	35	11	105	7	110	16	20	0	156	3	45	16	0	0	95	8	170	7	96	2
1700	87	3	0	0	3	1	64	1	56	3	112	4	99	10	17	0	134	4	35	10	1	0	99	7	176	4	85	1
1715	77	1	1	0	8	1	92	2	33	9	112	3	64	15	9	1	160	2	33	15	0	0	115	8	143	3	78	0
1730	67	1	0	0	4	1	66	1	32	7	101	3	100	20	10	1	123	1	38	19	1	0	85	4	163	4	82	1
1745	76	3	0	2	3	0	46	0	22	8	114	0	66	19	4	0	118	3	31	19	1	1	84	8	149	0	89	2
1800	52	0	0	0	1	1	57	0	42	10	96	4	75	15	5	0	104	0	26	15	1	0	68	6	145	4	74	1
1815	61	2	0	0	3	1	39	0	25	10	65	5	71	19	8	1	92	1	33	19	1	0	69	4	103	5	74	0

APPENDIX 3

TRICS Output – Nursery

Calculation Reference: AUDIT-851401-220329-0327

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 04 - EDUCATION

Category : D - NURSERY

MULTI-MODAL TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	1 days
09	NORTH	
	TW TYNE & WEAR	1 days

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

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: No of Employees
 Actual Range: 10 to 35 (units:)
 Range Selected by User: 5 to 35 (units:)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/13 to 21/05/19

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:

Monday	1 days
Tuesday	3 days
Wednesday	1 days
Friday	1 days

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

Selected survey types:

Manual count	6 days
Directional ATC Count	0 days

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 Centre	2
Suburban Area (PPS6 Out of Centre)	3
Neighbourhood Centre (PPS6 Local Centre)	1

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:

Residential Zone	5
No Sub Category	1

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.

Secondary Filtering selection:

Use Class:

E(f) 6 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

15,001 to 20,000 3 days

25,001 to 50,000 2 days

50,001 to 100,000 1 days

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

Population within 5 miles:

75,001 to 100,000 2 days

125,001 to 250,000 2 days

250,001 to 500,000 2 days

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

Car ownership within 5 miles:

0.5 or Less 1 days

0.6 to 1.0 1 days

1.1 to 1.5 3 days

2.1 to 2.5 1 days

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.

Travel Plan:

No 6 days

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 6 days

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	CA-04-D-02	NURSERY		CAMBRIDGESHIRE
	EASTFIELD ROAD			
	PETERBOROUGH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Employees:	17		
	Survey date: TUESDAY	18/10/16		Survey Type: MANUAL
2	CH-04-D-01	NURSERY		CHESHIRE
	CHESTER ROAD			
	MACCLESFIELD			
	Edge of Town Centre			
	No Sub Category			
	Total No of Employees:	19		
	Survey date: MONDAY	24/11/14		Survey Type: MANUAL
3	ES-04-D-01	NURSERY		EAST SUSSEX
	CONNAUGHT ROAD			
	BRIGHTON			
	HOVE			
	Neighbourhood Centre (PPS6 Local Centre)			
	Residential Zone			
	Total No of Employees:	10		
	Survey date: FRIDAY	22/09/17		Survey Type: MANUAL
4	LN-04-D-01	NURSERY		LINCOLNSHIRE
	NEWARK ROAD			
	LINCOLN			
	SWALLOW BECK			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Employees:	12		
	Survey date: TUESDAY	31/10/17		Survey Type: MANUAL
5	SF-04-D-03	NURSERY		SUFFOLK
	CAMP ROAD			
	LOWESTOFT			
	Edge of Town Centre			
	Residential Zone			
	Total No of Employees:	25		
	Survey date: WEDNESDAY	10/12/14		Survey Type: MANUAL
6	TW-04-D-03	NURSERY		TYNE & WEAR
	JUBILEE ROAD			
	NEWCASTLE UPON TYNE			
	GOSFORTH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Employees:	35		
	Survey date: TUESDAY	21/05/19		Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL TOTAL VEHICLES

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Total People to Total Vehicles ratio (all time periods and directions): 2.42

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.220	6	20	0.085	6	20	0.305
08:00 - 09:00	6	20	0.568	6	20	0.449	6	20	1.017
09:00 - 10:00	6	20	0.178	6	20	0.144	6	20	0.322
10:00 - 11:00	6	20	0.025	6	20	0.034	6	20	0.059
11:00 - 12:00	6	20	0.059	6	20	0.051	6	20	0.110
12:00 - 13:00	6	20	0.178	6	20	0.246	6	20	0.424
13:00 - 14:00	6	20	0.161	6	20	0.178	6	20	0.339
14:00 - 15:00	6	20	0.025	6	20	0.042	6	20	0.067
15:00 - 16:00	6	20	0.102	6	20	0.085	6	20	0.187
16:00 - 17:00	6	20	0.195	6	20	0.178	6	20	0.373
17:00 - 18:00	6	20	0.466	6	20	0.525	6	20	0.991
18:00 - 19:00	6	20	0.042	6	20	0.195	6	20	0.237
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.219			2.212			4.431

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.]

Parameter summary

Trip rate parameter range selected: 10 - 35 (units:)
 Survey date range: 01/01/13 - 21/05/19
 Number of weekdays (Monday-Friday): 6
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 0
 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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY
 MULTI-MODAL TAXIS
 Calculation factor: 1 EMPLOY
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.017	6	20	0.017	6	20	0.034
08:00 - 09:00	6	20	0.008	6	20	0.008	6	20	0.016
09:00 - 10:00	6	20	0.000	6	20	0.000	6	20	0.000
10:00 - 11:00	6	20	0.000	6	20	0.000	6	20	0.000
11:00 - 12:00	6	20	0.000	6	20	0.000	6	20	0.000
12:00 - 13:00	6	20	0.008	6	20	0.008	6	20	0.016
13:00 - 14:00	6	20	0.000	6	20	0.000	6	20	0.000
14:00 - 15:00	6	20	0.000	6	20	0.000	6	20	0.000
15:00 - 16:00	6	20	0.000	6	20	0.000	6	20	0.000
16:00 - 17:00	6	20	0.000	6	20	0.000	6	20	0.000
17:00 - 18:00	6	20	0.000	6	20	0.000	6	20	0.000
18:00 - 19:00	6	20	0.000	6	20	0.000	6	20	0.000
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.033			0.033			0.066

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY
 MULTI-MODAL OGVS
 Calculation factor: 1 EMPLOY
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.000	6	20	0.000	6	20	0.000
08:00 - 09:00	6	20	0.000	6	20	0.000	6	20	0.000
09:00 - 10:00	6	20	0.008	6	20	0.008	6	20	0.016
10:00 - 11:00	6	20	0.000	6	20	0.000	6	20	0.000
11:00 - 12:00	6	20	0.000	6	20	0.000	6	20	0.000
12:00 - 13:00	6	20	0.000	6	20	0.000	6	20	0.000
13:00 - 14:00	6	20	0.000	6	20	0.000	6	20	0.000
14:00 - 15:00	6	20	0.000	6	20	0.000	6	20	0.000
15:00 - 16:00	6	20	0.000	6	20	0.000	6	20	0.000
16:00 - 17:00	6	20	0.000	6	20	0.000	6	20	0.000
17:00 - 18:00	6	20	0.000	6	20	0.000	6	20	0.000
18:00 - 19:00	6	20	0.000	6	20	0.000	6	20	0.000
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.008			0.008			0.016

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL CYCLISTS

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.017	6	20	0.000	6	20	0.017
08:00 - 09:00	6	20	0.034	6	20	0.008	6	20	0.042
09:00 - 10:00	6	20	0.000	6	20	0.000	6	20	0.000
10:00 - 11:00	6	20	0.000	6	20	0.000	6	20	0.000
11:00 - 12:00	6	20	0.000	6	20	0.000	6	20	0.000
12:00 - 13:00	6	20	0.025	6	20	0.008	6	20	0.033
13:00 - 14:00	6	20	0.008	6	20	0.017	6	20	0.025
14:00 - 15:00	6	20	0.000	6	20	0.000	6	20	0.000
15:00 - 16:00	6	20	0.000	6	20	0.017	6	20	0.017
16:00 - 17:00	6	20	0.000	6	20	0.000	6	20	0.000
17:00 - 18:00	6	20	0.000	6	20	0.008	6	20	0.008
18:00 - 19:00	6	20	0.000	6	20	0.017	6	20	0.017
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00	1	17	0.000	1	17	0.000	1	17	0.000
21:00 - 22:00	1	17	0.000	1	17	0.000	1	17	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.084			0.075			0.159

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL VEHICLE OCCUPANTS

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.322	6	20	0.085	6	20	0.407
08:00 - 09:00	6	20	1.076	6	20	0.424	6	20	1.500
09:00 - 10:00	6	20	0.271	6	20	0.161	6	20	0.432
10:00 - 11:00	6	20	0.042	6	20	0.034	6	20	0.076
11:00 - 12:00	6	20	0.076	6	20	0.059	6	20	0.135
12:00 - 13:00	6	20	0.229	6	20	0.263	6	20	0.492
13:00 - 14:00	6	20	0.212	6	20	0.212	6	20	0.424
14:00 - 15:00	6	20	0.042	6	20	0.059	6	20	0.101
15:00 - 16:00	6	20	0.119	6	20	0.178	6	20	0.297
16:00 - 17:00	6	20	0.229	6	20	0.339	6	20	0.568
17:00 - 18:00	6	20	0.517	6	20	0.958	6	20	1.475
18:00 - 19:00	6	20	0.034	6	20	0.356	6	20	0.390
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.169			3.128			6.297

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL PEDESTRIANS

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.212	6	20	0.008	6	20	0.220
08:00 - 09:00	6	20	0.441	6	20	0.161	6	20	0.602
09:00 - 10:00	6	20	0.093	6	20	0.025	6	20	0.118
10:00 - 11:00	6	20	0.051	6	20	0.042	6	20	0.093
11:00 - 12:00	6	20	0.093	6	20	0.169	6	20	0.262
12:00 - 13:00	6	20	0.390	6	20	0.339	6	20	0.729
13:00 - 14:00	6	20	0.102	6	20	0.203	6	20	0.305
14:00 - 15:00	6	20	0.025	6	20	0.017	6	20	0.042
15:00 - 16:00	6	20	0.136	6	20	0.110	6	20	0.246
16:00 - 17:00	6	20	0.042	6	20	0.254	6	20	0.296
17:00 - 18:00	6	20	0.102	6	20	0.203	6	20	0.305
18:00 - 19:00	6	20	0.008	6	20	0.169	6	20	0.177
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.695			1.700			3.395

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL BUS/TRAM PASSENGERS

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.093	6	20	0.000	6	20	0.093
08:00 - 09:00	6	20	0.110	6	20	0.017	6	20	0.127
09:00 - 10:00	6	20	0.042	6	20	0.008	6	20	0.050
10:00 - 11:00	6	20	0.008	6	20	0.000	6	20	0.008
11:00 - 12:00	6	20	0.000	6	20	0.059	6	20	0.059
12:00 - 13:00	6	20	0.110	6	20	0.127	6	20	0.237
13:00 - 14:00	6	20	0.008	6	20	0.025	6	20	0.033
14:00 - 15:00	6	20	0.000	6	20	0.000	6	20	0.000
15:00 - 16:00	6	20	0.008	6	20	0.034	6	20	0.042
16:00 - 17:00	6	20	0.000	6	20	0.042	6	20	0.042
17:00 - 18:00	6	20	0.017	6	20	0.042	6	20	0.059
18:00 - 19:00	6	20	0.000	6	20	0.068	6	20	0.068
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.396			0.422			0.818

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY
 MULTI-MODAL TOTAL RAIL PASSENGERS
 Calculation factor: 1 EMPLOY
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.025	6	20	0.000	6	20	0.025
08:00 - 09:00	6	20	0.000	6	20	0.000	6	20	0.000
09:00 - 10:00	6	20	0.000	6	20	0.000	6	20	0.000
10:00 - 11:00	6	20	0.000	6	20	0.000	6	20	0.000
11:00 - 12:00	6	20	0.000	6	20	0.000	6	20	0.000
12:00 - 13:00	6	20	0.000	6	20	0.000	6	20	0.000
13:00 - 14:00	6	20	0.000	6	20	0.000	6	20	0.000
14:00 - 15:00	6	20	0.000	6	20	0.000	6	20	0.000
15:00 - 16:00	6	20	0.000	6	20	0.000	6	20	0.000
16:00 - 17:00	6	20	0.000	6	20	0.000	6	20	0.000
17:00 - 18:00	6	20	0.000	6	20	0.000	6	20	0.000
18:00 - 19:00	6	20	0.000	6	20	0.017	6	20	0.017
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.025			0.017			0.042

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Total People to Total Vehicles ratio (all time periods and directions): 2.42

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.669	6	20	0.093	6	20	0.762
08:00 - 09:00	6	20	1.661	6	20	0.610	6	20	2.271
09:00 - 10:00	6	20	0.407	6	20	0.195	6	20	0.602
10:00 - 11:00	6	20	0.102	6	20	0.076	6	20	0.178
11:00 - 12:00	6	20	0.169	6	20	0.288	6	20	0.457
12:00 - 13:00	6	20	0.754	6	20	0.737	6	20	1.491
13:00 - 14:00	6	20	0.331	6	20	0.458	6	20	0.789
14:00 - 15:00	6	20	0.068	6	20	0.076	6	20	0.144
15:00 - 16:00	6	20	0.263	6	20	0.339	6	20	0.602
16:00 - 17:00	6	20	0.271	6	20	0.636	6	20	0.907
17:00 - 18:00	6	20	0.636	6	20	1.212	6	20	1.848
18:00 - 19:00	6	20	0.042	6	20	0.627	6	20	0.669
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00	1	17	0.000	1	17	0.000	1	17	0.000
21:00 - 22:00	1	17	0.000	1	17	0.000	1	17	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			5.373			5.347			10.720

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY

MULTI-MODAL CARS

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.203	6	20	0.068	6	20	0.271
08:00 - 09:00	6	20	0.542	6	20	0.424	6	20	0.966
09:00 - 10:00	6	20	0.161	6	20	0.127	6	20	0.288
10:00 - 11:00	6	20	0.025	6	20	0.034	6	20	0.059
11:00 - 12:00	6	20	0.034	6	20	0.034	6	20	0.068
12:00 - 13:00	6	20	0.169	6	20	0.237	6	20	0.406
13:00 - 14:00	6	20	0.161	6	20	0.178	6	20	0.339
14:00 - 15:00	6	20	0.025	6	20	0.042	6	20	0.067
15:00 - 16:00	6	20	0.102	6	20	0.085	6	20	0.187
16:00 - 17:00	6	20	0.178	6	20	0.161	6	20	0.339
17:00 - 18:00	6	20	0.466	6	20	0.517	6	20	0.983
18:00 - 19:00	6	20	0.042	6	20	0.195	6	20	0.237
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.108			2.102			4.210

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.

TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY
 MULTI-MODAL LGVS
 Calculation factor: 1 EMPLOY
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate
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	1	17	0.000	1	17	0.000	1	17	0.000
07:00 - 08:00	6	20	0.000	6	20	0.000	6	20	0.000
08:00 - 09:00	6	20	0.017	6	20	0.017	6	20	0.034
09:00 - 10:00	6	20	0.008	6	20	0.008	6	20	0.016
10:00 - 11:00	6	20	0.000	6	20	0.000	6	20	0.000
11:00 - 12:00	6	20	0.025	6	20	0.017	6	20	0.042
12:00 - 13:00	6	20	0.000	6	20	0.000	6	20	0.000
13:00 - 14:00	6	20	0.000	6	20	0.000	6	20	0.000
14:00 - 15:00	6	20	0.000	6	20	0.000	6	20	0.000
15:00 - 16:00	6	20	0.000	6	20	0.000	6	20	0.000
16:00 - 17:00	6	20	0.017	6	20	0.017	6	20	0.034
17:00 - 18:00	6	20	0.000	6	20	0.008	6	20	0.008
18:00 - 19:00	6	20	0.000	6	20	0.000	6	20	0.000
19:00 - 20:00	1	17	0.000	1	17	0.000	1	17	0.000
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.067			0.067			0.134

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.

APPENDIX 4

TRICS Output – Office

Calculation Reference: AUDIT-851401-220329-0323

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT

Category : A - OFFICE

MULTI-MODAL TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	BD BEDFORDSHIRE	1 days
	ES EAST SUSSEX	1 days
	HF HERTFORDSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	1 days
	WY WEST YORKSHIRE	1 days
08	NORTH WEST	
	GM GREATER MANCHESTER	1 days
	LC LANCASHIRE	1 days
09	NORTH	
	TW TYNE & WEAR	1 days
10	WALES	
	PS POWYS	1 days
	SW SWANSEA	1 days
11	SCOTLAND	
	DU DUNDEE CITY	1 days

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

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: Gross floor area
 Actual Range: 1230 to 5000 (units: sqm)
 Range Selected by User: 1000 to 5000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/13 to 14/03/19

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:

Monday	2 days
Tuesday	3 days
Thursday	5 days
Friday	1 days

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

Selected survey types:

Manual count	11 days
Directional ATC Count	0 days

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 Centre	8
Suburban Area (PPS6 Out of Centre)	2
Edge of Town	1

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:

Development Zone	2
Residential Zone	2
Built-Up Zone	3

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.

Secondary Filtering selection:

Use Class:

Not Known 11 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Filter by Site Operations Breakdown:

All Surveys Included

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,001 to 5,000	1 days
5,001 to 10,000	3 days
15,001 to 20,000	1 days
20,001 to 25,000	1 days
25,001 to 50,000	5 days

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

Population within 5 miles:

5,001 to 25,000	1 days
25,001 to 50,000	1 days
75,001 to 100,000	1 days
125,001 to 250,000	6 days
500,001 or More	2 days

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	5 days
1.1 to 1.5	6 days

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.

Travel Plan:

Yes	1 days
No	10 days

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	11 days
-----------------	---------

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	BD-02-A-03 BROMHAM ROAD BEDFORD	OFFICES		BEDFORDSHIRE
	Edge of Town Centre No Sub Category Total Gross floor area:		1469 sqm	
	Survey date: MONDAY		14/10/13	Survey Type: MANUAL
2	DU-02-A-01 GREENMARKET DUNDEE	OFFICES		DUNDEE CITY
	Edge of Town Centre Development Zone Total Gross floor area:		3200 sqm	
	Survey date: THURSDAY		27/04/17	Survey Type: MANUAL
3	ES-02-A-12 VICARAGE LANE HAILSHAM	COUNCIL OFFICES		EAST SUSSEX
	Edge of Town Centre Built-Up Zone Total Gross floor area:		3640 sqm	
	Survey date: THURSDAY		26/11/15	Survey Type: MANUAL
4	GM-02-A-09 NEW MOUNT STREET MANCHESTER	LEASED OFFICES		GREATER MANCHESTER
	Edge of Town Centre Built-Up Zone Total Gross floor area:		2500 sqm	
	Survey date: MONDAY		26/09/16	Survey Type: MANUAL
5	HF-02-A-04 STATION WAY ST ALBANS	OFFICES		HERTFORDSHIRE
	Edge of Town Centre Residential Zone Total Gross floor area:		5000 sqm	
	Survey date: THURSDAY		02/10/14	Survey Type: MANUAL
6	LC-02-A-09 FURTHERGATE BLACKBURN	OFFICES		LANCASHIRE
	Suburban Area (PPS6 Out of Centre) Built-Up Zone Total Gross floor area:		2600 sqm	
	Survey date: TUESDAY		04/06/13	Survey Type: MANUAL
7	NY-02-A-02 STATION ROAD RICHMOND	DISTRICT COUNCIL OFFICES		NORTH YORKSHIRE
	Edge of Town Centre No Sub Category Total Gross floor area:		1930 sqm	
	Survey date: THURSDAY		14/03/19	Survey Type: MANUAL
8	PS-02-A-01 SEVERN ROAD WELSHPOOL	COUNCIL OFFICES		POWYS
	Edge of Town Centre No Sub Category Total Gross floor area:		3920 sqm	
	Survey date: TUESDAY		12/05/15	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	SW-02-A-02	OFFICE	SWANSEA
	KINGS ROAD		
	SWANSEA		
	Edge of Town Centre		
	Development Zone		
	Total Gross floor area:	2225 sqm	
	Survey date: THURSDAY	24/10/13	Survey Type: MANUAL
10	TW-02-A-08	HOUSING ASSOCIATION OFFICE	TYNE & WEAR
	BENTON PARK ROAD		
	NEWCASTLE UPON TYNE		
	Longbenton		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	4800 sqm	
	Survey date: FRIDAY	19/10/18	Survey Type: MANUAL
11	WY-02-A-05	OFFICES	WEST YORKSHIRE
	PIONEER WAY		
	CASTLEFORD		
	WHITWOOD		
	Edge of Town		
	No Sub Category		
	Total Gross floor area:	1230 sqm	
	Survey date: TUESDAY	23/05/17	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

MULTI-MODAL TOTAL VEHICLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Total People to Total Vehicles ratio (all time periods and directions): 1.90

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.584	11	2956	0.058	11	2956	0.642
08:00 - 09:00	11	2956	1.735	11	2956	0.206	11	2956	1.941
09:00 - 10:00	11	2956	0.978	11	2956	0.338	11	2956	1.316
10:00 - 11:00	11	2956	0.388	11	2956	0.354	11	2956	0.742
11:00 - 12:00	11	2956	0.268	11	2956	0.301	11	2956	0.569
12:00 - 13:00	11	2956	0.455	11	2956	0.535	11	2956	0.990
13:00 - 14:00	11	2956	0.477	11	2956	0.428	11	2956	0.905
14:00 - 15:00	11	2956	0.261	11	2956	0.381	11	2956	0.642
15:00 - 16:00	11	2956	0.228	11	2956	0.418	11	2956	0.646
16:00 - 17:00	11	2956	0.228	11	2956	0.907	11	2956	1.135
17:00 - 18:00	11	2956	0.141	11	2956	1.286	11	2956	1.427
18:00 - 19:00	10	3128	0.029	10	3128	0.403	10	3128	0.432
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			5.772			5.615			11.387

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.]

Parameter summary

Trip rate parameter range selected:	1230 - 5000 (units: sqm)
Survey date range:	01/01/13 - 14/03/19
Number of weekdays (Monday-Friday):	11
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	1
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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL TAXIS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
08:00 - 09:00	11	2956	0.022	11	2956	0.022	11	2956	0.044
09:00 - 10:00	11	2956	0.022	11	2956	0.025	11	2956	0.047
10:00 - 11:00	11	2956	0.006	11	2956	0.006	11	2956	0.012
11:00 - 12:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
12:00 - 13:00	11	2956	0.006	11	2956	0.003	11	2956	0.009
13:00 - 14:00	11	2956	0.006	11	2956	0.006	11	2956	0.012
14:00 - 15:00	11	2956	0.003	11	2956	0.006	11	2956	0.009
15:00 - 16:00	11	2956	0.006	11	2956	0.006	11	2956	0.012
16:00 - 17:00	11	2956	0.006	11	2956	0.003	11	2956	0.009
17:00 - 18:00	11	2956	0.018	11	2956	0.022	11	2956	0.040
18:00 - 19:00	10	3128	0.000	10	3128	0.000	10	3128	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.095			0.099			0.194

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL OGVS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
08:00 - 09:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
09:00 - 10:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
10:00 - 11:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
11:00 - 12:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
12:00 - 13:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
13:00 - 14:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
14:00 - 15:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
15:00 - 16:00	11	2956	0.003	11	2956	0.003	11	2956	0.006
16:00 - 17:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
17:00 - 18:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
18:00 - 19:00	10	3128	0.000	10	3128	0.000	10	3128	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.021			0.021			0.042

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL CYCLISTS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.012	11	2956	0.006	11	2956	0.018
08:00 - 09:00	11	2956	0.049	11	2956	0.000	11	2956	0.049
09:00 - 10:00	11	2956	0.012	11	2956	0.000	11	2956	0.012
10:00 - 11:00	11	2956	0.006	11	2956	0.000	11	2956	0.006
11:00 - 12:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
12:00 - 13:00	11	2956	0.009	11	2956	0.006	11	2956	0.015
13:00 - 14:00	11	2956	0.003	11	2956	0.000	11	2956	0.003
14:00 - 15:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
15:00 - 16:00	11	2956	0.000	11	2956	0.003	11	2956	0.003
16:00 - 17:00	11	2956	0.003	11	2956	0.009	11	2956	0.012
17:00 - 18:00	11	2956	0.003	11	2956	0.040	11	2956	0.043
18:00 - 19:00	10	3128	0.003	10	3128	0.022	10	3128	0.025
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.100			0.086			0.186

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL VEHICLE OCCUPANTS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.637	11	2956	0.040	11	2956	0.677
08:00 - 09:00	11	2956	1.928	11	2956	0.154	11	2956	2.082
09:00 - 10:00	11	2956	1.138	11	2956	0.332	11	2956	1.470
10:00 - 11:00	11	2956	0.440	11	2956	0.409	11	2956	0.849
11:00 - 12:00	11	2956	0.323	11	2956	0.323	11	2956	0.646
12:00 - 13:00	11	2956	0.523	11	2956	0.618	11	2956	1.141
13:00 - 14:00	11	2956	0.575	11	2956	0.492	11	2956	1.067
14:00 - 15:00	11	2956	0.314	11	2956	0.461	11	2956	0.775
15:00 - 16:00	11	2956	0.234	11	2956	0.511	11	2956	0.745
16:00 - 17:00	11	2956	0.271	11	2956	1.012	11	2956	1.283
17:00 - 18:00	11	2956	0.132	11	2956	1.498	11	2956	1.630
18:00 - 19:00	10	3128	0.026	10	3128	0.473	10	3128	0.499
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			6.541			6.323			12.864

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL PEDESTRIANS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.062	11	2956	0.015	11	2956	0.077
08:00 - 09:00	11	2956	0.258	11	2956	0.031	11	2956	0.289
09:00 - 10:00	11	2956	0.378	11	2956	0.132	11	2956	0.510
10:00 - 11:00	11	2956	0.191	11	2956	0.172	11	2956	0.363
11:00 - 12:00	11	2956	0.141	11	2956	0.209	11	2956	0.350
12:00 - 13:00	11	2956	0.446	11	2956	0.843	11	2956	1.289
13:00 - 14:00	11	2956	0.778	11	2956	0.649	11	2956	1.427
14:00 - 15:00	11	2956	0.443	11	2956	0.175	11	2956	0.618
15:00 - 16:00	11	2956	0.151	11	2956	0.101	11	2956	0.252
16:00 - 17:00	11	2956	0.062	11	2956	0.166	11	2956	0.228
17:00 - 18:00	11	2956	0.086	11	2956	0.397	11	2956	0.483
18:00 - 19:00	10	3128	0.019	10	3128	0.077	10	3128	0.096
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.015			2.967			5.982

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL BUS/TRAM PASSENGERS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.009	11	2956	0.000	11	2956	0.009
08:00 - 09:00	11	2956	0.154	11	2956	0.003	11	2956	0.157
09:00 - 10:00	11	2956	0.209	11	2956	0.037	11	2956	0.246
10:00 - 11:00	11	2956	0.086	11	2956	0.031	11	2956	0.117
11:00 - 12:00	11	2956	0.037	11	2956	0.049	11	2956	0.086
12:00 - 13:00	11	2956	0.049	11	2956	0.126	11	2956	0.175
13:00 - 14:00	11	2956	0.092	11	2956	0.138	11	2956	0.230
14:00 - 15:00	11	2956	0.037	11	2956	0.068	11	2956	0.105
15:00 - 16:00	11	2956	0.049	11	2956	0.068	11	2956	0.117
16:00 - 17:00	11	2956	0.046	11	2956	0.114	11	2956	0.160
17:00 - 18:00	11	2956	0.000	11	2956	0.129	11	2956	0.129
18:00 - 19:00	10	3128	0.006	10	3128	0.045	10	3128	0.051
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.774			0.808			1.582

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL TOTAL RAIL PASSENGERS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.006	11	2956	0.009	11	2956	0.015
08:00 - 09:00	11	2956	0.148	11	2956	0.022	11	2956	0.170
09:00 - 10:00	11	2956	0.098	11	2956	0.022	11	2956	0.120
10:00 - 11:00	11	2956	0.025	11	2956	0.034	11	2956	0.059
11:00 - 12:00	11	2956	0.025	11	2956	0.003	11	2956	0.028
12:00 - 13:00	11	2956	0.012	11	2956	0.015	11	2956	0.027
13:00 - 14:00	11	2956	0.040	11	2956	0.077	11	2956	0.117
14:00 - 15:00	11	2956	0.037	11	2956	0.022	11	2956	0.059
15:00 - 16:00	11	2956	0.031	11	2956	0.043	11	2956	0.074
16:00 - 17:00	11	2956	0.018	11	2956	0.040	11	2956	0.058
17:00 - 18:00	11	2956	0.025	11	2956	0.120	11	2956	0.145
18:00 - 19:00	10	3128	0.016	10	3128	0.070	10	3128	0.086
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.481			0.477			0.958

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Total People to Total Vehicles ratio (all time periods and directions): 1.90

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.726	11	2956	0.071	11	2956	0.797
08:00 - 09:00	11	2956	2.537	11	2956	0.209	11	2956	2.746
09:00 - 10:00	11	2956	1.836	11	2956	0.523	11	2956	2.359
10:00 - 11:00	11	2956	0.747	11	2956	0.646	11	2956	1.393
11:00 - 12:00	11	2956	0.529	11	2956	0.624	11	2956	1.153
12:00 - 13:00	11	2956	1.040	11	2956	1.609	11	2956	2.649
13:00 - 14:00	11	2956	1.489	11	2956	1.356	11	2956	2.845
14:00 - 15:00	11	2956	0.830	11	2956	0.726	11	2956	1.556
15:00 - 16:00	11	2956	0.464	11	2956	0.726	11	2956	1.190
16:00 - 17:00	11	2956	0.400	11	2956	1.341	11	2956	1.741
17:00 - 18:00	11	2956	0.246	11	2956	2.184	11	2956	2.430
18:00 - 19:00	10	3128	0.070	10	3128	0.687	10	3128	0.757
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			10.914			10.702			21.616

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

MULTI-MODAL CARS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.563	11	2956	0.043	11	2956	0.606
08:00 - 09:00	11	2956	1.661	11	2956	0.163	11	2956	1.824
09:00 - 10:00	11	2956	0.892	11	2956	0.261	11	2956	1.153
10:00 - 11:00	11	2956	0.341	11	2956	0.308	11	2956	0.649
11:00 - 12:00	11	2956	0.234	11	2956	0.261	11	2956	0.495
12:00 - 13:00	11	2956	0.406	11	2956	0.489	11	2956	0.895
13:00 - 14:00	11	2956	0.446	11	2956	0.397	11	2956	0.843
14:00 - 15:00	11	2956	0.240	11	2956	0.360	11	2956	0.600
15:00 - 16:00	11	2956	0.194	11	2956	0.369	11	2956	0.563
16:00 - 17:00	11	2956	0.197	11	2956	0.883	11	2956	1.080
17:00 - 18:00	11	2956	0.111	11	2956	1.243	11	2956	1.354
18:00 - 19:00	10	3128	0.029	10	3128	0.400	10	3128	0.429
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			5.314			5.177			10.491

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL LGVS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.015	11	2956	0.009	11	2956	0.024
08:00 - 09:00	11	2956	0.028	11	2956	0.018	11	2956	0.046
09:00 - 10:00	11	2956	0.062	11	2956	0.049	11	2956	0.111
10:00 - 11:00	11	2956	0.034	11	2956	0.037	11	2956	0.071
11:00 - 12:00	11	2956	0.028	11	2956	0.031	11	2956	0.059
12:00 - 13:00	11	2956	0.043	11	2956	0.043	11	2956	0.086
13:00 - 14:00	11	2956	0.025	11	2956	0.025	11	2956	0.050
14:00 - 15:00	11	2956	0.015	11	2956	0.012	11	2956	0.027
15:00 - 16:00	11	2956	0.025	11	2956	0.040	11	2956	0.065
16:00 - 17:00	11	2956	0.025	11	2956	0.018	11	2956	0.043
17:00 - 18:00	11	2956	0.012	11	2956	0.015	11	2956	0.027
18:00 - 19:00	10	3128	0.000	10	3128	0.000	10	3128	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.312			0.297			0.609

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 MULTI-MODAL MOTOR CYCLES
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
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									
07:00 - 08:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
08:00 - 09:00	11	2956	0.012	11	2956	0.000	11	2956	0.012
09:00 - 10:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
10:00 - 11:00	11	2956	0.003	11	2956	0.000	11	2956	0.003
11:00 - 12:00	11	2956	0.000	11	2956	0.003	11	2956	0.003
12:00 - 13:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
13:00 - 14:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
14:00 - 15:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
15:00 - 16:00	11	2956	0.000	11	2956	0.000	11	2956	0.000
16:00 - 17:00	11	2956	0.000	11	2956	0.003	11	2956	0.003
17:00 - 18:00	11	2956	0.000	11	2956	0.003	11	2956	0.003
18:00 - 19:00	10	3128	0.000	10	3128	0.003	10	3128	0.003
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.015			0.012			0.027

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.

APPENDIX 5

JUNCTIONS Output – Pilsworth Road/Site Access

Junctions 9									
PICADY 9 - Priority Intersection Module									
Version: 9.5.1.7462									
© Copyright TRL Limited, 2019									
For sales and distribution information, program advice and maintenance, contact TRL:									
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk									
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: Pilsworth Road-JD Car park (Improvements 2).j9

Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Picady\Planning Application

Report generation date: 19/05/2022 10:51:31

»2027 With Dev, AM

»2027 With Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
2027 With Dev										
Stream B-AC	D9	0.1	12.73	0.06	B	D10	0.3	17.64	0.25	C
Stream C-AB		0.1	7.73	0.06	A		0.0	8.98	0.02	A

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

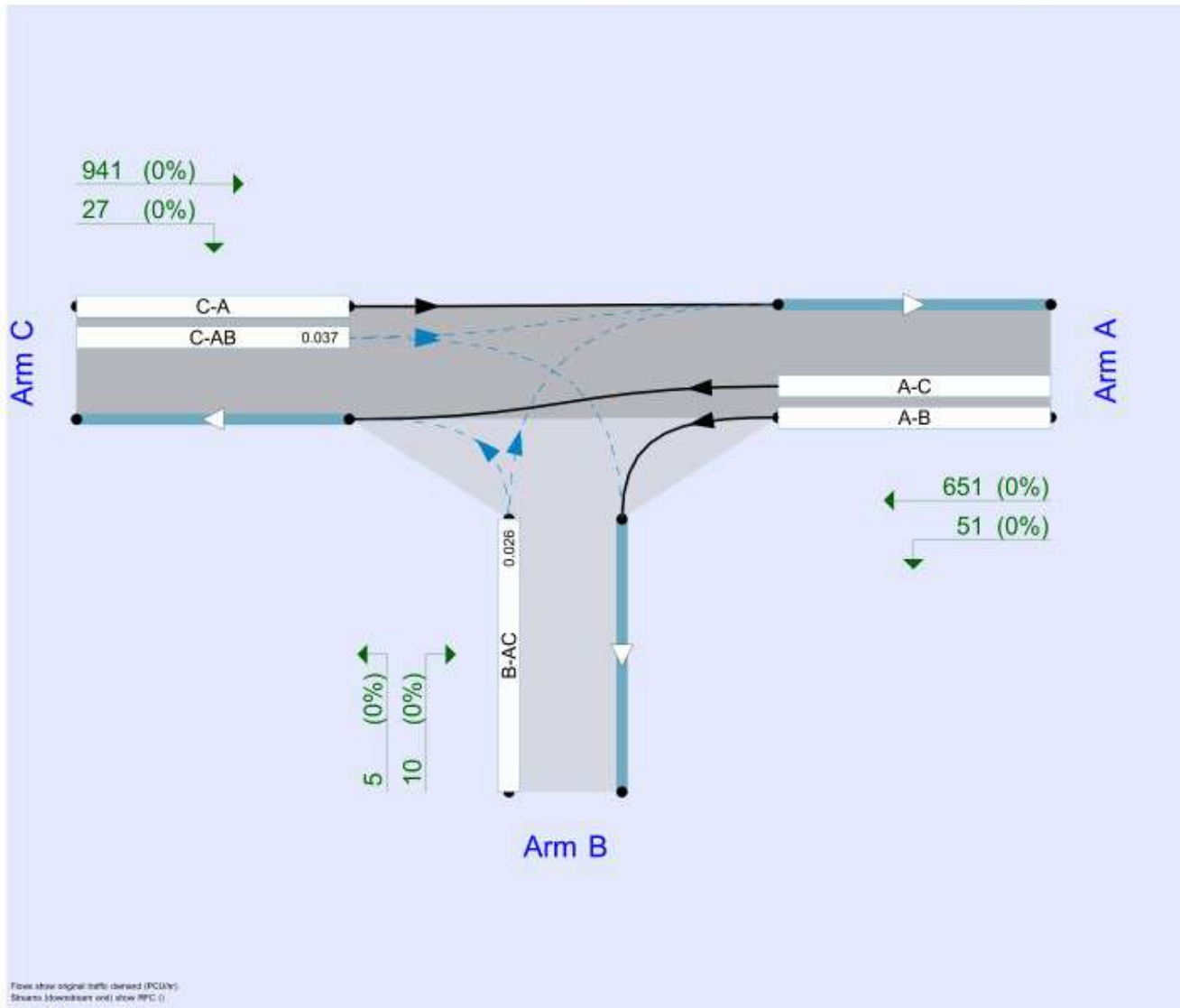
File summary

File Description

Title	Pilsworth Road/Site Access
Location	Pilsworth
Site number	
Date	21/03/2022
Version	
Status	TA
Identifier	
Client	JD Sports
Jobnumber	2561
Enumerator	EDD\Lee.Worthington
Description	Drawing 2561-F03-B

Units

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



The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D9	2027 With Dev	AM	ONE HOUR	07:30	09:00	15
D10	2027 With Dev	PM	ONE HOUR	16:00	17:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2027 With Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.24	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Pilsworth Road (E)		Major
B	JD Car park		Minor
C	Pilsworth Road (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.00	103.2	✓	2.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.55	69	127

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	651	0.113	0.287	0.180	0.409
B-C	813	0.119	0.301	-	-
C-B	689	0.255	0.255	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D9	2027 With Dev	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	702	100.000
B		✓	15	100.000
C		✓	968	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	51	651
	B	10	0	5
	C	941	27	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.06	12.73	0.1	B
C-AB	0.06	7.73	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	434	0.026	11	0.0	8.520	A
C-AB	20	555	0.037	20	0.0	6.730	A
C-A	708			708			
A-B	38			38			
A-C	490			490			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	379	0.036	13	0.0	9.858	A
C-AB	24	530	0.046	24	0.0	7.124	A
C-A	846			846			
A-B	46			46			
A-C	585			585			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	299	0.055	16	0.1	12.726	B
C-AB	30	495	0.060	30	0.1	7.733	A
C-A	1036			1036			
A-B	56			56			
A-C	717			717			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	299	0.055	17	0.1	12.735	B
C-AB	30	495	0.060	30	0.1	7.734	A
C-A	1036			1036			
A-B	56			56			
A-C	717			717			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	379	0.036	14	0.0	9.868	A
C-AB	24	530	0.046	24	0.0	7.129	A
C-A	846			846			
A-B	46			46			
A-C	585			585			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	434	0.026	11	0.0	8.527	A
C-AB	20	555	0.037	20	0.0	6.737	A
C-A	708			708			
A-B	38			38			
A-C	490			490			

2027 With Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.70	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D10	2027 With Dev	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	1000	100.000
B		✓	62	100.000
C		✓	571	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	11	989
	B	41	0	21
	C	565	6	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.25	17.64	0.3	C
C-AB	0.02	8.98	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	413	0.113	46	0.1	9.812	A
C-AB	5	497	0.009	4	0.0	7.320	A
C-A	425			425			
A-B	8			8			
A-C	745			745			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	56	355	0.157	56	0.2	12.010	B
C-AB	5	459	0.012	5	0.0	7.935	A
C-A	508			508			
A-B	10			10			
A-C	889			889			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	68	272	0.251	68	0.3	17.544	C
C-AB	7	408	0.016	7	0.0	8.977	A
C-A	622			622			
A-B	12			12			
A-C	1089			1089			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	68	272	0.251	68	0.3	17.638	C
C-AB	7	408	0.016	7	0.0	8.977	A
C-A	622			622			
A-B	12			12			
A-C	1089			1089			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	56	355	0.157	56	0.2	12.085	B
C-AB	5	459	0.012	5	0.0	7.936	A
C-A	508			508			
A-B	10			10			
A-C	889			889			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	413	0.113	47	0.1	9.852	A
C-AB	5	497	0.009	5	0.0	7.320	A
C-A	425			425			
A-B	8			8			
A-C	745			745			

APPENDIX 6

JUNCTIONS Output – Pilsworth Road/Hollins Brook Way

Junctions 9					
PICADY 9 - Priority Intersection Module					
Version: 9.5.1.7462					
© Copyright TRL Limited, 2019					
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk					
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: Pilsworth Road-Hollins Brook Way (Existing) AM Peak.j9

Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Picady\Planning Application

Report generation date: 19/05/2022 11:11:19

»2022 Observed, AM

»2027 Base Flows, AM

Summary of junction performance

	AM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2022 Observed				
Stream B-AC	D1	0.1	12.28	0.08	B
Stream C-AB		0.4	8.16	0.21	A
	2027 Base Flows				
Stream B-AC	D3	0.1	12.93	0.08	B
Stream C-AB		0.4	8.14	0.21	A

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

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

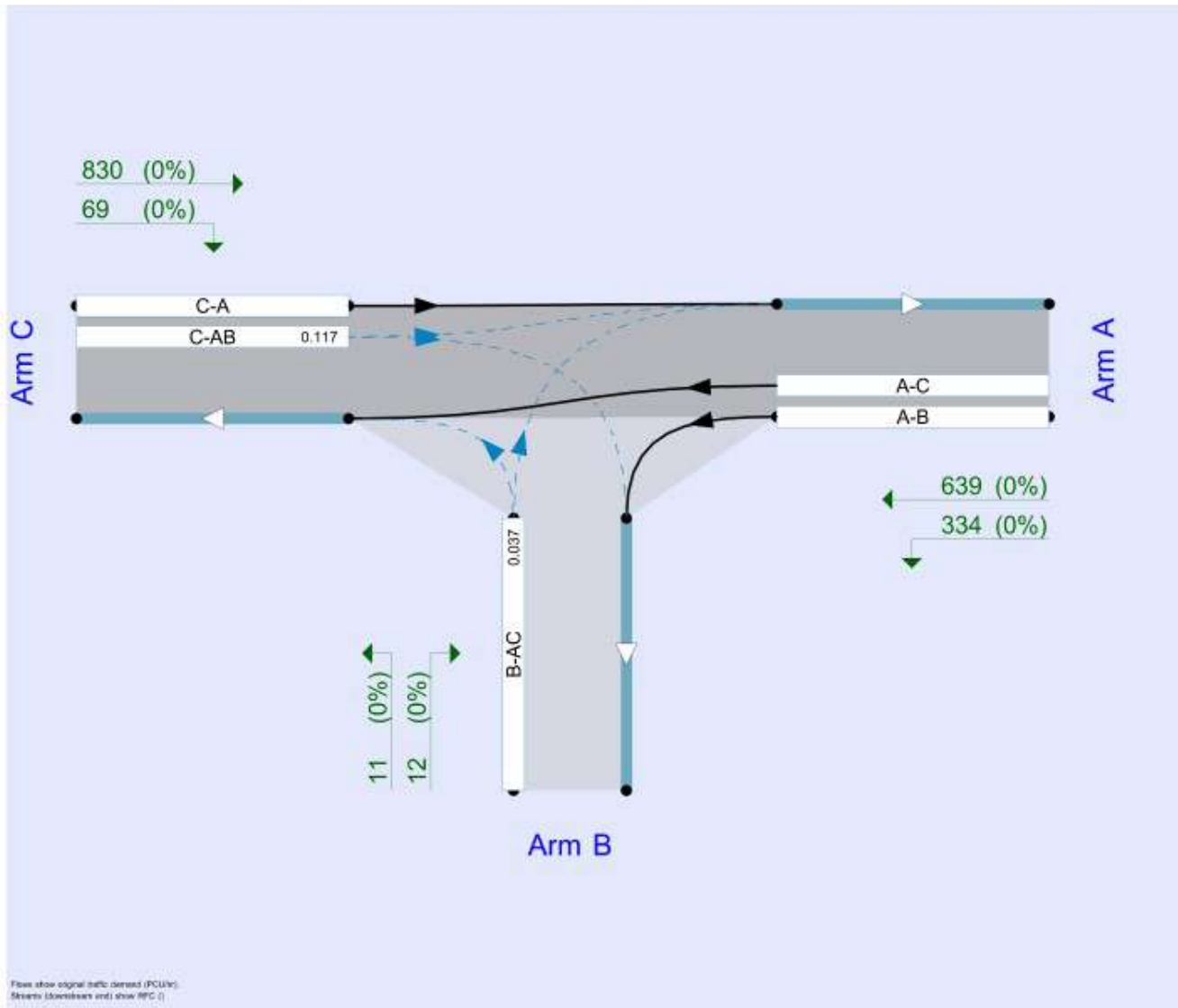
File summary

File Description

Title	Pilsworth Road/Hollins Brook Way
Location	Pilsworth
Site number	
Date	21/03/2022
Version	
Status	TA
Identifier	
Client	JD Sports
Jobnumber	2561
Enumerator	EDD\Lee.Worthington
Description	

Units

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



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Observed	AM	ONE HOUR	07:30	09:00	15	✓
D3	2027 Base Flows	AM	ONE HOUR	07:30	09:00	15	✓

Analysis Set Details

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

2022 Observed, AM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.55	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Pilsworth Road (E)		Major
B	Hollins Brook Way		Minor
C	Pilsworth Road (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.88			67.2	✓	1.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.50	211	136

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	712	0.125	0.315	0.198	0.450
B-C	816	0.120	0.304	-	-
C-B	613	0.228	0.228	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Observed	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	973	100.000
B		ONE HOUR	✓	23	100.000
C		ONE HOUR	✓	899	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	334	839
	B	12	0	11
	C	830	69	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	12.28	0.1	B	21	32
C-AB	0.21	8.16	0.4	A	85	127
C-A					740	1110
A-B					308	460
A-C					588	880

Copyright © 2022 Transport Research Laboratory. All rights reserved.

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	473	0.037	17	0.0	0.0	7.896	A
C-AB	60	15	518	0.117	60	0.0	0.2	7.843	A
C-A	616	154			616				
A-B	251	63			251				
A-C	481	120			481				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	21	5	411	0.050	21	0.0	0.1	9.223	A
C-AB	79	20	525	0.150	79	0.2	0.2	8.062	A
C-A	729	182			729				
A-B	300	75			300				
A-C	574	144			574				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	319	0.079	25	0.1	0.1	12.265	B
C-AB	115	29	557	0.206	114	0.2	0.4	8.141	A
C-A	875	219			875				
A-B	368	92			368				
A-C	704	176			704				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	318	0.080	25	0.1	0.1	12.284	B
C-AB	115	29	557	0.206	115	0.4	0.4	8.163	A
C-A	875	219			875				
A-B	368	92			368				
A-C	704	176			704				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	21	5	411	0.050	21	0.1	0.1	9.240	A
C-AB	79	20	525	0.150	79	0.4	0.2	8.097	A
C-A	729	182			729				
A-B	300	75			300				
A-C	574	144			574				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	473	0.037	17	0.1	0.0	7.909	A
C-AB	60	15	518	0.117	61	0.2	0.2	7.873	A
C-A	616	154			616				
A-B	251	63			251				
A-C	481	120			481				

2027 Base Flows, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.55	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2027 Base Flows	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	994	100.000
B		ONE HOUR	✓	23	100.000
C		ONE HOUR	✓	926	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	334	660
	B	12	0	11
	C	857	69	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	12.93	0.1	B	21	32
C-AB	0.21	8.14	0.4	A	86	129
C-A					764	1146
A-B					308	460
A-C					606	908

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	464	0.037	17	0.0	0.0	8.046	A
C-AB	61	15	518	0.118	60	0.0	0.2	7.881	A
C-A	636	159			636				
A-B	251	63			251				
A-C	497	124			497				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	21	5	400	0.052	21	0.0	0.1	9.484	A
C-AB	80	20	526	0.152	79	0.2	0.2	8.069	A
C-A	753	188			753				
A-B	300	75			300				
A-C	593	148			593				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	304	0.083	25	0.1	0.1	12.905	B
C-AB	117	29	560	0.209	117	0.2	0.4	8.118	A
C-A	902	226			902				
A-B	368	92			368				
A-C	727	182			727				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	304	0.083	25	0.1	0.1	12.928	B
C-AB	117	29	560	0.209	117	0.4	0.4	8.143	A
C-A	902	226			902				
A-B	368	92			368				
A-C	727	182			727				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	21	5	400	0.052	21	0.1	0.1	9.502	A
C-AB	80	20	526	0.152	80	0.4	0.2	8.105	A
C-A	753	188			753				
A-B	300	75			300				
A-C	593	148			593				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	464	0.037	17	0.1	0.0	8.058	A
C-AB	61	15	518	0.118	61	0.2	0.2	7.891	A
C-A	636	159			636				
A-B	251	63			251				
A-C	497	124			497				

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.5.1.7462							
© Copyright TRL Limited, 2019							
For sales and distribution information, program advice and maintenance, contact TRL:							
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk							
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: Pilsworth Road-Hollins Brook Way (Existing) PM Peak.j9

Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Picady\Planning Application

Report generation date: 19/05/2022 11:26:08

»2022 Observed, PM

»2027 Base Flows, PM

Summary of junction performance

	PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2022 Observed				
Stream B-AC	D2	3.5	75.04	0.81	F
Stream C-AB		0.0	9.24	0.01	A
	2027 Base Flows				
Stream B-AC	D4	4.6	98.89	0.88	F
Stream C-AB		0.0	9.41	0.01	A

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

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

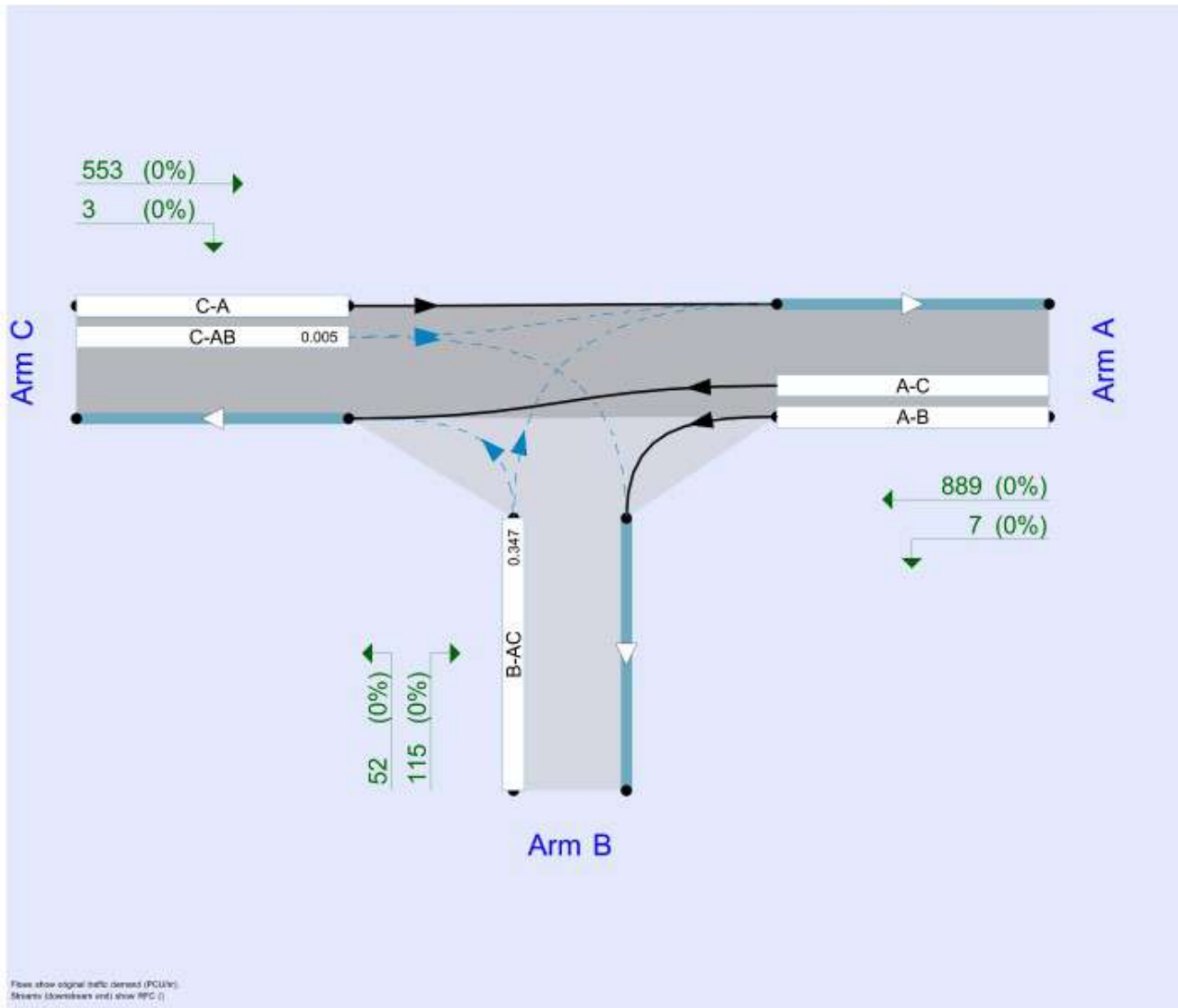
File summary

File Description

Title	Pilsworth Road/Hollins Brook Way
Location	Pilsworth
Site number	
Date	21/03/2022
Version	
Status	TA
Identifier	
Client	JD Sports
Jobnumber	2561
Enumerator	EDD\Lee.Worthington
Description	

Units

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



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Observed	PM	ONE HOUR	16:30	18:00	15	✓
D4	2027 Base Flows	PM	ONE HOUR	16:30	18:00	15	✓

Analysis Set Details

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

2022 Observed, PM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		7.78	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Pilsworth Road (E)		Major
B	Hollins Brook Way		Minor
C	Pilsworth Road (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.88			67.2	✓	1.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.50	211	136

Slope / Intercept / Capacity

Stream Intercept Adjustments

Stream intercept adjustment	Use adjustment	Reason	Direct intercept adjustment (PCU/hr)
B-AC	✓	Queue Validation	-100

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	712	0.125	0.315	0.198	0.450
B-C	816	0.120	0.304	-	-
C-B	613	0.228	0.228	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Observed	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	898	100.000
B		ONE HOUR	✓	167	100.000
C		ONE HOUR	✓	558	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	7	889
	B	115	0	52
	C	553	3	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.81	75.04	3.5	F	153	230
C-AB	0.01	9.24	0.0	A	3	4
C-A					507	761
A-B					6	10
A-C					816	1224

Main Results for each time segment

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	31	363	0.347	124	0.0	0.5	14.931	B
C-AB	2	0.57	461	0.005	2	0.0	0.0	7.849	A
C-A	416	104			416				
A-B	5	1			5				
A-C	669	167			669				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	38	307	0.490	149	0.5	0.9	22.539	C
C-AB	3	0.68	432	0.006	3	0.0	0.0	8.384	A
C-A	497	124			497				
A-B	6	2			6				
A-C	799	200			799				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	227	0.810	175	0.9	3.1	61.309	F
C-AB	3	0.84	393	0.009	3	0.0	0.0	9.243	A
C-A	609	152			609				
A-B	8	2			8				
A-C	979	245			979				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	227	0.810	182	3.1	3.5	75.036	F
C-AB	3	0.84	393	0.009	3	0.0	0.0	9.245	A
C-A	609	152			609				
A-B	8	2			8				
A-C	979	245			979				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	38	307	0.490	160	3.5	1.0	26.091	D
C-AB	3	0.68	432	0.006	3	0.0	0.0	8.386	A
C-A	497	124			497				
A-B	6	2			6				
A-C	799	200			799				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	31	363	0.347	128	1.0	0.5	15.422	C
C-AB	2	0.57	461	0.005	2	0.0	0.0	7.851	A
C-A	416	104			416				
A-B	5	1			5				
A-C	669	167			669				

2027 Base Flows, PM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		9.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2027 Base Flows	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	925	100.000
B		ONE HOUR	✓	167	100.000
C		ONE HOUR	✓	574	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	7	918
	B	115	0	52
	C	571	3	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.86	98.89	4.6	F	153	230
C-AB	0.01	9.41	0.0	A	3	4
C-A					524	786
A-B					6	10
A-C					842	1264

Main Results for each time segment

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	31	353	0.356	124	0.0	0.5	15.519	C
C-AB	2	0.57	456	0.005	2	0.0	0.0	7.934	A
C-A	430	107			430				
A-B	5	1			5				
A-C	691	173			691				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	38	295	0.508	148	0.5	1.0	24.202	C
C-AB	3	0.68	426	0.006	3	0.0	0.0	8.499	A
C-A	513	128			513				
A-B	6	2			6				
A-C	825	206			825				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	213	0.865	172	1.0	3.9	74.708	F
C-AB	3	0.84	386	0.009	3	0.0	0.0	9.413	A
C-A	629	157			629				
A-B	8	2			8				
A-C	1011	253			1011				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	213	0.865	181	3.9	4.6	98.887	F
C-AB	3	0.84	386	0.009	3	0.0	0.0	9.413	A
C-A	629	157			629				
A-B	8	2			8				
A-C	1011	253			1011				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	38	295	0.508	164	4.6	1.1	30.037	D
C-AB	3	0.68	426	0.006	3	0.0	0.0	8.499	A
C-A	513	128			513				
A-B	6	2			6				
A-C	825	206			825				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	31	353	0.356	128	1.1	0.6	16.097	C
C-AB	2	0.57	456	0.005	2	0.0	0.0	7.935	A
C-A	430	107			430				
A-B	5	1			5				
A-C	691	173			691				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.1.7462

© Copyright TRL Limited, 2019

For sales and distribution information, program advice and maintenance, contact TRL:

+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk

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: Pilsworth Road-Hollins Brook Way (Improvement).j9

Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Picady\Planning Application

Report generation date: 19/05/2022 11:36:29

»2027 With Dev, AM

»2027 With Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
2027 With Dev										
Stream B-C	D7	0.0	6.95	0.02	A	D8	0.2	9.72	0.14	A
Stream B-A		0.1	23.70	0.09	C		1.5	40.64	0.61	E
Stream C-AB		0.3	11.79	0.21	B		0.0	8.82	0.01	A

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

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

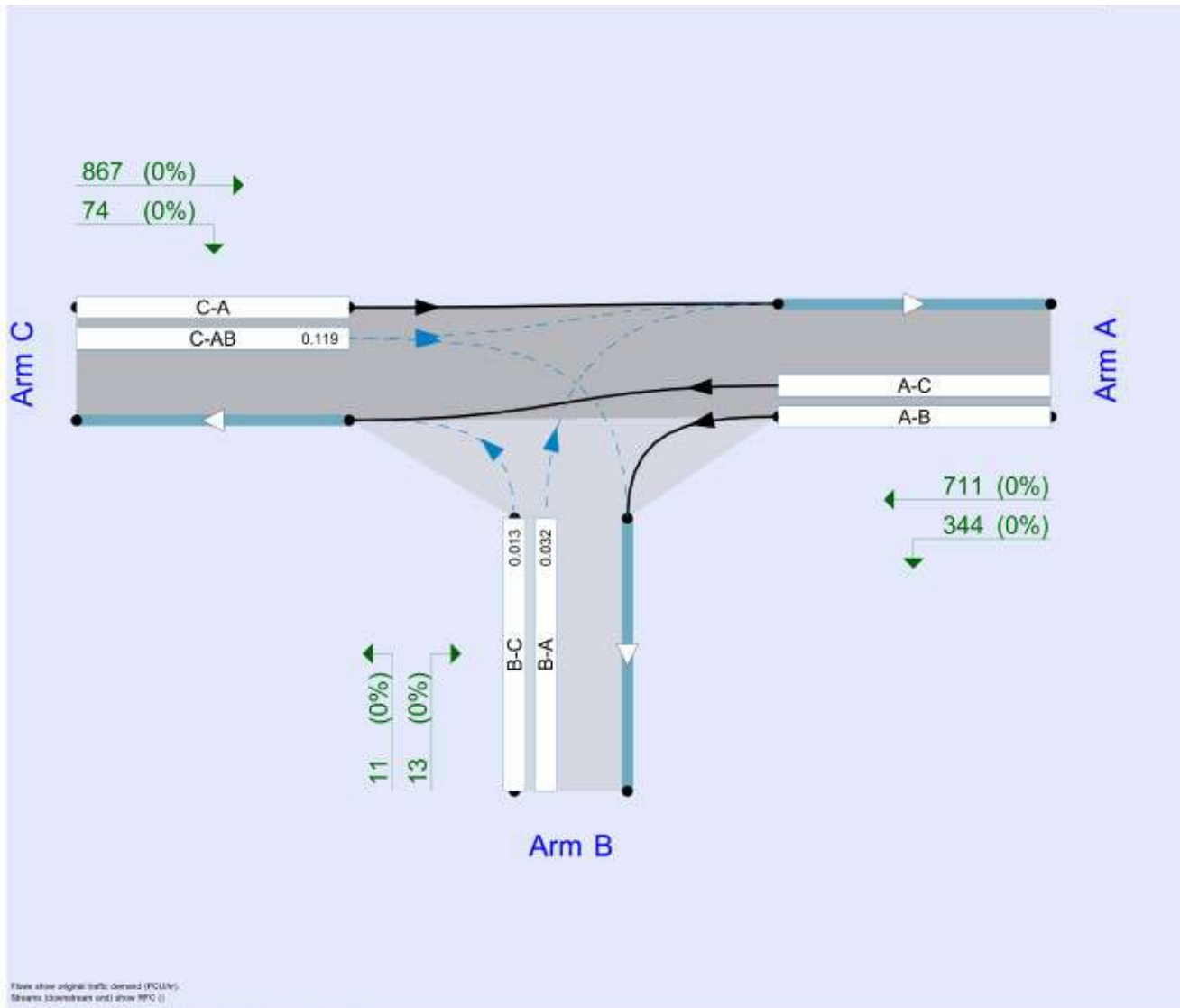
File summary

File Description

Title	Pilsworth Road/Hollins Brook Way Improvement Scheme
Location	Pilsworth
Site number	
Date	21/03/2022
Version	
Status	(new file)
Identifier	
Client	JD
Jobnumber	2561
Enumerator	EDD\Lee.Worthington
Description	Based on Drawing 2561-F03B

Units

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



The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2027 With Dev	AM	ONE HOUR	07:30	09:00	15
D8	2027 With Dev	PM	ONE HOUR	16:00	17:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2027 With Dev, AM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.63	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Pilsworth Road (E)		Major
B	Hollins Brook Way		Minor
C	Pilsworth Road (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.00	67.2	✓	3.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane Width (Left) (m)	Lane Width (Right) (m)	Visibility to left (m)	Visibility to right (m)
B	Two lanes	4.70	3.50	106	133

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	609	0.106	0.268	0.169	0.383
B-C	828	0.121	0.307	-	-
C-B	666	0.247	0.247	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2027 With Dev	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	1055	100.000
B		✓	24	100.000
C		✓	941	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	344	711
	B	13	0	11
	C	887	74	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.02	6.95	0.0	A
B-A	0.09	23.70	0.1	C
C-AB	0.21	11.79	0.3	B
C-A				
A-B				
A-C				

Copyright 2022 Transport Research Laboratory. All rights reserved.

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	627	0.013	8	0.0	5.816	A
B-A	10	306	0.032	10	0.0	12.124	B
C-AB	56	471	0.119	55	0.1	8.646	A
C-A	653			653			
A-B	259			259			
A-C	535			535			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	587	0.017	10	0.0	6.235	A
B-A	12	248	0.047	12	0.0	15.255	C
C-AB	67	435	0.154	67	0.2	9.774	A
C-A	779			779			
A-B	309			309			
A-C	639			639			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	530	0.023	12	0.0	6.951	A
B-A	14	166	0.086	14	0.1	23.628	C
C-AB	84	389	0.215	83	0.3	11.766	B
C-A	953			953			
A-B	379			379			
A-C	783			783			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	530	0.023	12	0.0	6.953	A
B-A	14	166	0.086	14	0.1	23.701	C
C-AB	84	389	0.215	83	0.3	11.791	B
C-A	953			953			
A-B	379			379			
A-C	783			783			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	587	0.017	10	0.0	6.237	A
B-A	12	247	0.047	12	0.1	15.297	C
C-AB	67	435	0.154	67	0.2	9.805	A
C-A	779			779			
A-B	309			309			
A-C	639			639			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	627	0.013	8	0.0	5.817	A
B-A	10	306	0.032	10	0.0	12.153	B
C-AB	56	471	0.119	56	0.1	8.676	A
C-A	653			653			
A-B	259			259			
A-C	535			535			

2027 With Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		3.28	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2027 With Dev	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	937	100.000
B		✓	179	100.000
C		✓	592	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	8	929
	B	123	0	56
	C	589	3	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.14	9.72	0.2	A
B-A	0.61	40.64	1.5	E
C-AB	0.01	8.82	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	571	0.074	42	0.1	6.792	A
B-A	93	345	0.268	91	0.4	14.102	B
C-AB	2	492	0.005	2	0.0	7.349	A
C-A	443			443			
A-B	6			6			
A-C	699			699			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	516	0.097	50	0.1	7.721	A
B-A	111	294	0.376	110	0.6	19.448	C
C-AB	3	458	0.006	3	0.0	7.902	A
C-A	529			529			
A-B	7			7			
A-C	835			835			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	434	0.142	61	0.2	9.662	A
B-A	135	223	0.607	132	1.4	38.320	E
C-AB	3	412	0.008	3	0.0	8.818	A
C-A	649			649			
A-B	9			9			
A-C	1023			1023			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	432	0.143	62	0.2	9.722	A
B-A	135	223	0.607	135	1.5	40.645	E
C-AB	3	412	0.008	3	0.0	8.818	A
C-A	649			649			
A-B	9			9			
A-C	1023			1023			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	514	0.098	51	0.1	7.768	A
B-A	111	294	0.378	114	0.6	20.358	C
C-AB	3	458	0.006	3	0.0	7.904	A
C-A	529			529			
A-B	7			7			
A-C	835			835			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	570	0.074	42	0.1	6.820	A
B-A	93	345	0.268	94	0.4	14.371	B
C-AB	2	492	0.005	2	0.0	7.352	A
C-A	443			443			
A-B	6			6			
A-C	699			699			

APPENDIX 7

JUNCTIONS Output – Pilsworth Road/Pilsworth Way

Junctions 9			
PICADY 9 - Priority Intersection Module			
Version: 9.5.1.7462			
© Copyright TRL Limited, 2019			
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk			
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: Pilsworth Road-Pilsworth Way (Existing) - May 22.j9
 Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Planning Application
 Report generation date: 17/05/2022 10:10:37

- »2022 Survyed Flows, AM
- »2022 Survyed Flows, PM
- »2027 Growthed Flows, AM
- »2027 Growthed Flows, PM
- »2027 With Development, AM
- »2027 With Development, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2022 Survyed Flows								
Stream B-AC	0.1	13.82	0.11	B	0.3	13.32	0.21	B
Stream C-AB	0.1	8.74	0.09	A	0.0	7.28	0.03	A
2027 Growthed Flows								
Stream B-AC	0.1	14.37	0.12	B	0.3	13.98	0.22	B
Stream C-AB	0.1	8.82	0.09	A	0.0	7.31	0.03	A
2027 With Development								
Stream B-AC	0.1	15.12	0.12	C	0.3	14.82	0.24	B
Stream C-AB	0.1	8.79	0.10	A	0.0	7.45	0.03	A

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

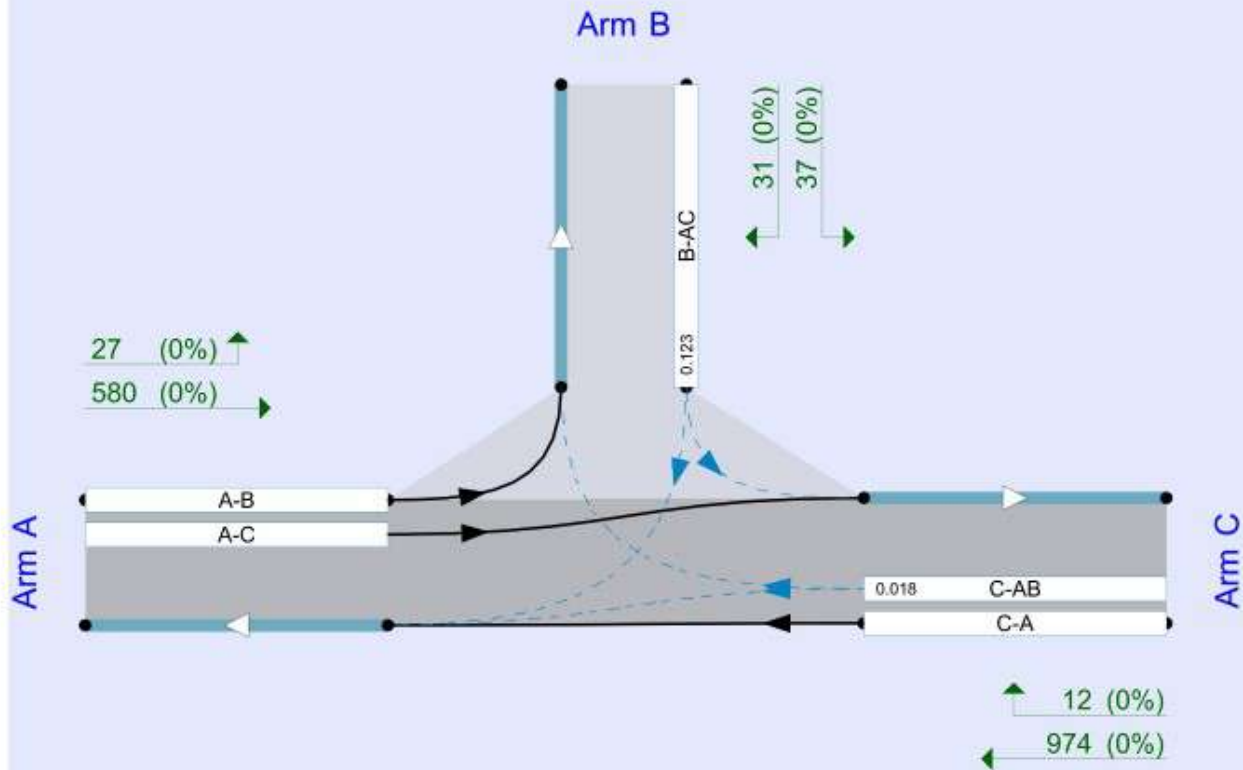
File summary

File Description

Title	Pilsworth Road - Pilsworth Way
Location	Pilsworth, Bury
Site number	
Date	21/03/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	2561
Enumerator	EDD
Description	

Units

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



Flows show original traffic demand (PCU/hr).
Streams (downstream) show RFC (s).

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	08:00	09:30	15
D2	2022 Surveyed Flows	PM	ONE HOUR	17:00	18:30	15
D3	2027 Growthed Flows	AM	ONE HOUR	08:00	09:30	15
D4	2027 Growthed Flows	PM	ONE HOUR	17:00	18:30	15
D5	2027 With Development	AM	ONE HOUR	08:00	09:30	15
D6	2027 With Development	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022 Surved Flows, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.45	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Pilsworth Road (W)		Major
B	Pilsworth Way		Minor
C	Pilsworth Road (E)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.10			80.0	✓	1.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.60	28	27

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	530	0.092	0.232	0.146	0.332
B-C	679	0.099	0.251	-	-
C-B	620	0.229	0.229	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surved Flows	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	907	100.000
B		✓	29	100.000
C		✓	650	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	26	881
	B	11	0	18
	C	618	32	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.11	13.82	0.1	B
C-AB	0.09	8.74	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	402	0.054	22	0.1	9.452	A
C-AB	25	488	0.052	25	0.1	7.777	A
C-A	464			464			
A-B	20			20			
A-C	663			663			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	358	0.073	26	0.1	10.852	B
C-AB	31	471	0.066	31	0.1	8.197	A
C-A	553			553			
A-B	23			23			
A-C	792			792			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	292	0.109	32	0.1	13.805	B
C-AB	41	453	0.090	41	0.1	8.733	A
C-A	675			675			
A-B	29			29			
A-C	970			970			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	292	0.109	32	0.1	13.823	B
C-AB	41	453	0.090	41	0.1	8.739	A
C-A	675			675			
A-B	29			29			
A-C	970			970			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	358	0.073	26	0.1	10.871	B
C-AB	31	471	0.066	31	0.1	8.207	A
C-A	553			553			
A-B	23			23			
A-C	792			792			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	402	0.054	22	0.1	9.470	A
C-AB	25	488	0.052	25	0.1	7.788	A
C-A	464			464			
A-B	20			20			
A-C	663			663			

2022 Survyed Flows, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.62	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022 Survyed Flows	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	547	100.000
B		✓	66	100.000
C		✓	941	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	26	521
	B	30	0	36
	C	929	12	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.21	13.32	0.3	B
C-AB	0.03	7.26	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	50	433	0.115	49	0.1	9.377	A
C-AB	9	538	0.017	9	0.0	6.812	A
C-A	699			699			
A-B	20			20			
A-C	392			392			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	59	396	0.150	59	0.2	10.675	B
C-AB	11	526	0.021	11	0.0	7.004	A
C-A	835			835			
A-B	23			23			
A-C	468			468			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	73	343	0.212	72	0.3	13.287	B
C-AB	14	511	0.027	14	0.0	7.255	A
C-A	1022			1022			
A-B	29			29			
A-C	574			574			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	73	343	0.212	73	0.3	13.321	B
C-AB	14	511	0.027	14	0.0	7.258	A
C-A	1022			1022			
A-B	29			29			
A-C	574			574			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	59	396	0.150	60	0.2	10.708	B
C-AB	11	526	0.021	11	0.0	7.007	A
C-A	835			835			
A-B	23			23			
A-C	468			468			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	50	433	0.115	50	0.1	9.411	A
C-AB	9	538	0.017	9	0.0	6.813	A
C-A	699			699			
A-B	20			20			
A-C	392			392			

2027 Growthed Flows, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.48	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2027 Growthed Flows	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	936	100.000
B		✓	30	100.000
C		✓	671	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	27	909
	B	11	0	19
	C	638	33	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.12	14.37	0.1	B
C-AB	0.09	8.82	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	398	0.057	22	0.1	9.580	A
C-AB	26	485	0.054	26	0.1	7.845	A
C-A	479			479			
A-B	20			20			
A-C	684			684			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	27	352	0.077	27	0.1	11.079	B
C-AB	32	488	0.069	32	0.1	8.277	A
C-A	571			571			
A-B	24			24			
A-C	817			817			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	284	0.116	33	0.1	14.346	B
C-AB	43	451	0.095	42	0.1	8.818	A
C-A	696			696			
A-B	30			30			
A-C	1001			1001			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	284	0.116	33	0.1	14.368	B
C-AB	43	451	0.095	43	0.1	8.824	A
C-A	696			696			
A-B	30			30			
A-C	1001			1001			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	27	352	0.077	27	0.1	11.098	B
C-AB	32	468	0.069	33	0.1	8.288	A
C-A	571			571			
A-B	24			24			
A-C	817			817			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	398	0.057	23	0.1	9.598	A
C-AB	26	485	0.054	26	0.1	7.857	A
C-A	479			479			
A-B	20			20			
A-C	684			684			

2027 Growthed Flows, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.65	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2027 Growthed Flows	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	565	100.000
B		✓	68	100.000
C		✓	971	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	27	538
	B	31	0	37
	C	959	12	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.22	13.98	0.3	B
C-AB	0.03	7.31	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	51	426	0.120	51	0.1	9.569	A
C-AB	9	535	0.017	9	0.0	6.846	A
C-A	722			722			
A-B	20			20			
A-C	405			405			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	61	388	0.157	61	0.2	10.984	B
C-AB	11	523	0.021	11	0.0	7.045	A
C-A	862			862			
A-B	24			24			
A-C	484			484			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	75	333	0.225	74	0.3	13.913	B
C-AB	14	507	0.028	14	0.0	7.305	A
C-A	1055			1055			
A-B	30			30			
A-C	592			592			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	75	333	0.225	75	0.3	13.957	B
C-AB	14	507	0.028	14	0.0	7.308	A
C-A	1055			1055			
A-B	30			30			
A-C	592			592			

17:00:00 - 18:00:00

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	61	388	0.157	62	0.2	11.028	B
C-AB	11	523	0.021	11	0.0	7.049	A
C-A	862			862			
A-B	24			24			
A-C	484			484			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	51	426	0.120	51	0.1	9.608	A
C-AB	9	535	0.017	9	0.0	6.847	A
C-A	722			722			
A-B	20			20			
A-C	405			405			

2027 With Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.46	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027 With Development	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	951	100.000
B		✓	30	100.000
C		✓	723	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	27	924
	B	11	0	19
	C	690	33	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.12	15.12	0.1	C
C-AB	0.10	8.79	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	391	0.058	22	0.1	9.760	A
C-AB	26	485	0.054	26	0.1	7.852	A
C-A	518			518			
A-B	20			20			
A-C	696			696			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	27	343	0.079	27	0.1	11.388	B
C-AB	33	488	0.070	33	0.1	8.273	A
C-A	617			617			
A-B	24			24			
A-C	831			831			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	271	0.122	33	0.1	15.095	C
C-AB	43	453	0.095	43	0.1	8.782	A
C-A	753			753			
A-B	30			30			
A-C	1017			1017			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	271	0.122	33	0.1	15.124	C
C-AB	43	453	0.095	43	0.1	8.788	A
C-A	753			753			
A-B	30			30			
A-C	1017			1017			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	27	343	0.079	27	0.1	11.414	B
C-AB	33	468	0.070	33	0.1	8.284	A
C-A	617			617			
A-B	24			24			
A-C	831			831			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	391	0.058	23	0.1	9.780	A
C-AB	26	465	0.054	26	0.1	7.865	A
C-A	518			518			
A-B	20			20			
A-C	696			696			

2027 With Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.66	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027 With Development	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	607	100.000
B		✓	68	100.000
C		✓	968	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	27	580
	B	31	0	37
	C	974	12	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.24	14.82	0.3	B
C-AB	0.03	7.45	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	51	417	0.123	51	0.1	9.813	A
C-AB	9	529	0.018	9	0.0	6.937	A
C-A	733			733			
A-B	20			20			
A-C	437			437			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	61	377	0.162	61	0.2	11.388	B
C-AB	11	515	0.022	11	0.0	7.157	A
C-A	875			875			
A-B	24			24			
A-C	521			521			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	75	318	0.238	74	0.3	14.770	B
C-AB	14	498	0.028	14	0.0	7.448	A
C-A	1072			1072			
A-B	30			30			
A-C	639			639			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	75	318	0.238	75	0.3	14.819	B
C-AB	14	498	0.028	14	0.0	7.451	A
C-A	1072			1072			
A-B	30			30			
A-C	639			639			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	61	377	0.162	62	0.2	11.433	B
C-AB	11	515	0.022	11	0.0	7.158	A
C-A	875			875			
A-B	24			24			
A-C	521			521			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	51	417	0.123	51	0.1	9.856	A
C-AB	9	529	0.018	9	0.0	6.940	A
C-A	733			733			
A-B	20			20			
A-C	437			437			

APPENDIX 8

JUNCTIONS Output – Pilsworth Road/Aviation Road

Junctions 9									
PICADY 9 - Priority Intersection Module									
Version: 9.5.1.7462									
© Copyright TRL Limited, 2019									
For sales and distribution information, program advice and maintenance, contact TRL:									
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk									
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: Pilsworth Road-Aviation Road (Existing).j9

Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Picady\Planning Application

Report generation date: 13/05/2022 15:17:19

- »2022 Surveyed Flows , AM
- »2022 Surveyed Flows , PM
- »2027 Base Flows , AM
- »2027 Base Flows , PM
- »2027 With Development Flows, AM
- »2027 With Development Flows, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2022 Surveyed Flows									
Stream B-AC	D1	0.0	16.72	0.03	C	D2	0.5	20.34	0.36	C
Stream C-AB		0.0	9.74	0.01	A		0.0	9.31	0.01	A
	2027 Base Flows									
Stream B-AC	D3	0.0	18.03	0.04	C	D4	0.6	22.30	0.39	C
Stream C-AB		0.0	9.93	0.01	A		0.0	9.47	0.01	A
	2027 With Development Flows									
Stream B-AC	D5	0.0	20.40	0.04	C	D6	0.7	24.25	0.41	C
Stream C-AB		0.0	10.32	0.01	B		0.0	9.53	0.01	A

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

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

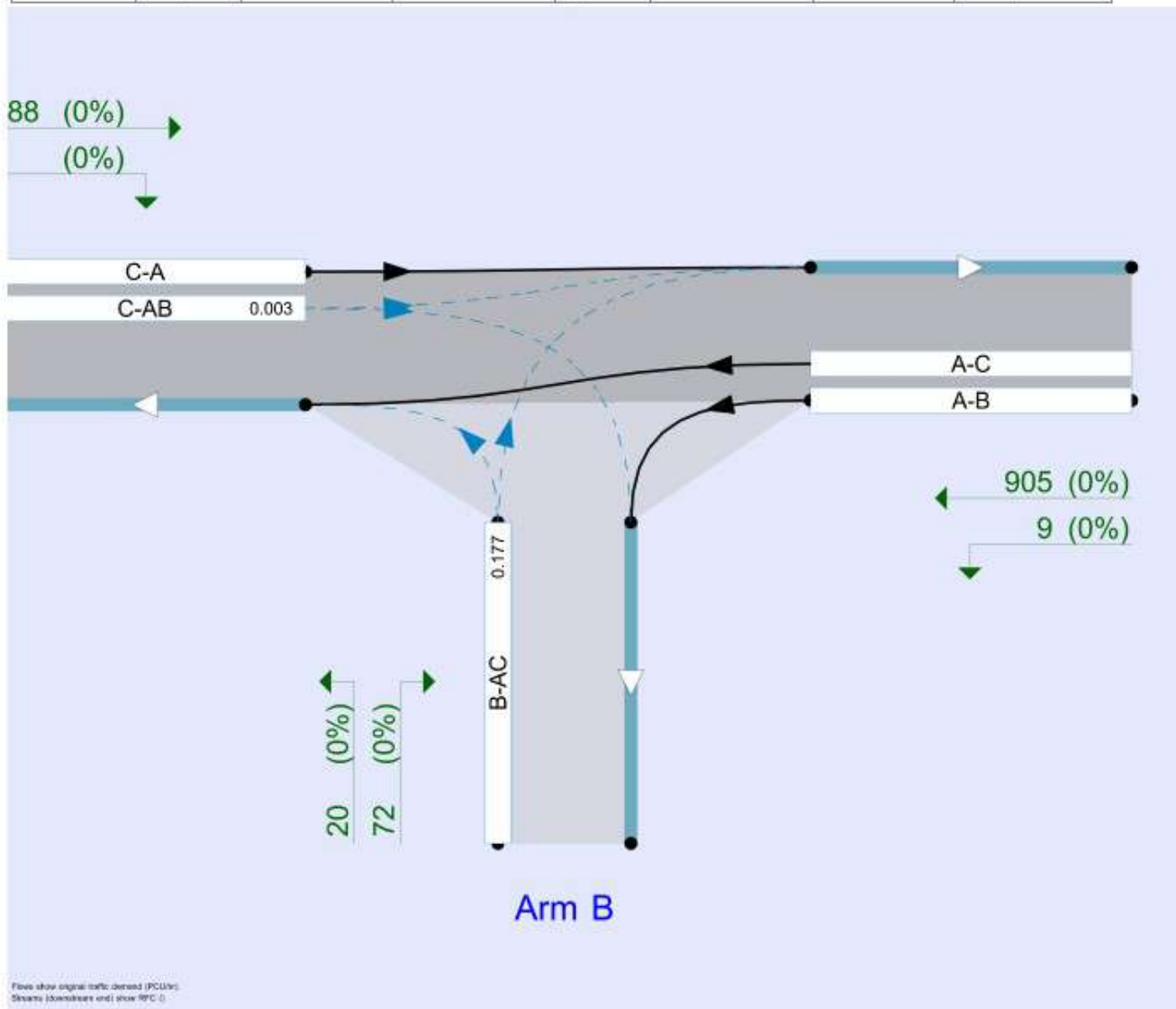
File summary

File Description

Title	Pilsworth Road/Aviation Road
Location	Pilsworth
Site number	
Date	21/03/2022
Version	
Status	TA
Identifier	
Client	JD Campus
Jobnumber	2561
Enumerator	EDD\Lee.Worthington
Description	

Units

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



Flows show original traffic demand (PCU/hr).
Signals (downstream end) show RFC (%).

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	07:30	09:00	15
D2	2022 Surveyed Flows	PM	ONE HOUR	16:00	17:30	15
D3	2027 Base Flows	AM	ONE HOUR	07:30	09:00	15
D4	2027 Base Flows	PM	ONE HOUR	16:00	17:30	15
D5	2027 With Development Flows	AM	ONE HOUR	07:30	09:00	15
D6	2027 With Development Flows	PM	ONE HOUR	16:00	17:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022 Surveyed Flows , AM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Pilsworth Road (E)		Major
B	Aviation Road		Minor
C	Pilsworth Road (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.65			31.7	✓	1.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	5.00	48	63

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	629	0.106	0.269	0.169	0.384
B-C	796	0.113	0.286	-	-
C-B	592	0.213	0.213	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	979	100.000
B		✓	7	100.000
C		✓	842	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	8	971
	B	5	0	2
	C	838	4	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.03	18.72	0.0	C
C-AB	0.01	9.74	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	372	0.014	5	0.0	9.820	A
C-AB	3	440	0.007	3	0.0	8.244	A
C-A	631			631			
A-B	6			6			
A-C	731			731			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	311	0.020	6	0.0	11.825	B
C-AB	4	412	0.009	4	0.0	8.825	A
C-A	753			753			
A-B	7			7			
A-C	873			873			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	223	0.035	8	0.0	16.709	C
C-AB	5	374	0.012	5	0.0	9.745	A
C-A	923			923			
A-B	9			9			
A-C	1069			1069			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	223	0.035	8	0.0	16.718	C
C-AB	5	374	0.012	5	0.0	9.745	A
C-A	923			923			
A-B	9			9			
A-C	1069			1069			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	311	0.020	6	0.0	11.829	B
C-AB	4	412	0.009	4	0.0	8.825	A
C-A	753			753			
A-B	7			7			
A-C	873			873			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	372	0.014	5	0.0	9.825	A
C-AB	3	440	0.007	3	0.0	8.246	A
C-A	631			631			
A-B	6			6			
A-C	731			731			

2022 Surveyed Flows , PM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.11	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022 Surveyed Flows	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	888	100.000
B		✓	89	100.000
C		✓	668	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	9	877
	B	70	0	19
	C	668	2	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.38	20.34	0.5	C
C-AB	0.01	9.31	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	87	400	0.168	86	0.2	10.764	B
C-AB	2	452	0.003	1	0.0	7.992	A
C-A	501			501			
A-B	7			7			
A-C	660			660			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	80	348	0.230	80	0.3	13.405	B
C-AB	2	425	0.004	2	0.0	8.502	A
C-A	599			599			
A-B	8			8			
A-C	788			788			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	98	275	0.356	97	0.5	20.129	C
C-AB	2	389	0.006	2	0.0	9.313	A
C-A	733			733			
A-B	10			10			
A-C	966			966			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	98	275	0.356	98	0.5	20.336	C
C-AB	2	389	0.006	2	0.0	9.315	A
C-A	733			733			
A-B	10			10			
A-C	966			966			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	80	348	0.230	81	0.3	13.538	B
C-AB	2	425	0.004	2	0.0	8.503	A
C-A	599			599			
A-B	8			8			
A-C	788			788			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	67	400	0.168	67	0.2	10.849	B
C-AB	2	452	0.003	2	0.0	7.992	A
C-A	501			501			
A-B	7			7			
A-C	660			660			

2027 Base Flows , AM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2027 Base Flows	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	1010	100.000
B		✓	7	100.000
C		✓	889	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	8	1002
	B	5	0	2
	C	885	4	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.04	18.03	0.0	C
C-AB	0.01	9.93	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	362	0.015	5	0.0	10.092	B
C-AB	3	435	0.007	3	0.0	8.335	A
C-A	651			651			
A-B	6			6			
A-C	754			754			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	299	0.021	6	0.0	12.317	B
C-AB	4	406	0.009	4	0.0	8.948	A
C-A	778			778			
A-B	7			7			
A-C	901			901			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	207	0.037	8	0.0	18.023	C
C-AB	5	367	0.012	5	0.0	9.924	A
C-A	952			952			
A-B	9			9			
A-C	1103			1103			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	207	0.037	8	0.0	18.034	C
C-AB	5	367	0.012	5	0.0	9.926	A
C-A	952			952			
A-B	9			9			
A-C	1103			1103			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	299	0.021	6	0.0	12.325	B
C-AB	4	406	0.009	4	0.0	8.951	A
C-A	778			778			
A-B	7			7			
A-C	901			901			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	362	0.015	5	0.0	10.096	B
C-AB	3	435	0.007	3	0.0	8.337	A
C-A	651			651			
A-B	6			6			
A-C	754			754			

2027 Base Flows , PM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.22	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2027 Base Flows	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	914	100.000
B		✓	92	100.000
C		✓	690	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	9	905
	B	72	0	20
	C	688	2	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.39	22.30	0.6	C
C-AB	0.01	9.47	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	69	392	0.177	68	0.2	11.105	B
C-AB	2	448	0.003	1	0.0	8.071	A
C-A	518			518			
A-B	7			7			
A-C	681			681			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	338	0.245	82	0.3	14.044	B
C-AB	2	420	0.004	2	0.0	8.608	A
C-A	618			618			
A-B	8			8			
A-C	814			814			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	263	0.388	100	0.6	21.991	C
C-AB	2	382	0.006	2	0.0	9.469	A
C-A	757			757			
A-B	10			10			
A-C	996			996			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	263	0.388	101	0.6	22.299	C
C-AB	2	382	0.006	2	0.0	9.470	A
C-A	757			757			
A-B	10			10			
A-C	996			996			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	338	0.245	84	0.3	14.216	B
C-AB	2	420	0.004	2	0.0	8.608	A
C-A	618			618			
A-B	8			8			
A-C	814			814			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	69	392	0.177	70	0.2	11.193	B
C-AB	2	448	0.003	2	0.0	8.071	A
C-A	518			518			
A-B	7			7			
A-C	681			681			

2027 With Development Flows, AM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027 With Development Flows	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	1072	100.000
B		✓	7	100.000
C		✓	880	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	8	1084
	B	5	0	2
	C	876	4	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.04	20.40	0.0	C
C-AB	0.01	10.32	0.0	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	347	0.015	5	0.0	10.528	B
C-AB	3	425	0.007	3	0.0	8.528	A
C-A	659			659			
A-B	6			6			
A-C	801			801			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	281	0.022	6	0.0	13.121	B
C-AB	4	394	0.009	4	0.0	9.213	A
C-A	787			787			
A-B	7			7			
A-C	957			957			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	184	0.042	8	0.0	20.381	C
C-AB	5	353	0.013	5	0.0	10.319	B
C-A	964			964			
A-B	9			9			
A-C	1171			1171			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	184	0.042	8	0.0	20.400	C
C-AB	5	353	0.013	5	0.0	10.320	B
C-A	964			964			
A-B	9			9			
A-C	1171			1171			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	281	0.022	6	0.0	13.134	B
C-AB	4	394	0.009	4	0.0	9.216	A
C-A	787			787			
A-B	7			7			
A-C	957			957			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	347	0.015	5	0.0	10.533	B
C-AB	3	425	0.007	3	0.0	8.528	A
C-A	659			659			
A-B	6			6			
A-C	801			801			

2027 With Development Flows, PM

Data Errors and Warnings

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

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.28	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027 With Development Flows	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	928	100.000
B		✓	92	100.000
C		✓	739	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	9	917
	B	72	0	20
	C	737	2	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.41	24.25	0.7	C
C-AB	0.01	9.53	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	89	383	0.181	88	0.2	11.400	B
C-AB	2	448	0.003	1	0.0	8.104	A
C-A	555			555			
A-B	7			7			
A-C	690			690			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	328	0.252	82	0.3	14.827	B
C-AB	2	418	0.004	2	0.0	8.651	A
C-A	663			663			
A-B	8			8			
A-C	824			824			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	250	0.408	100	0.7	23.852	C
C-AB	2	380	0.006	2	0.0	9.530	A
C-A	811			811			
A-B	10			10			
A-C	1010			1010			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	250	0.408	101	0.7	24.254	C
C-AB	2	380	0.006	2	0.0	9.530	A
C-A	811			811			
A-B	10			10			
A-C	1010			1010			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	328	0.252	84	0.3	14.835	B
C-AB	2	418	0.004	2	0.0	8.653	A
C-A	663			663			
A-B	8			8			
A-C	824			824			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	69	383	0.181	70	0.2	11.496	B
C-AB	2	446	0.003	2	0.0	8.104	A
C-A	555			555			
A-B	7			7			
A-C	690			690			

APPENDIX 9

JUNCTIONS Output – Pilsworth Road/Roach Bank Road/Park 66

Junctions 9			
ARCADY 9 - Roundabout Module			
Version: 9.5.1.7462 © Copyright TRL Limited, 2019			
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk			
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: Pilsworth Road - Park 66 Roundabout.j9
Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Planning Application
Report generation date: 17/05/2022 10:19:27

- »2022 Surveyed Flows, AM
- »2022 Surveyed Flows, PM
- »2027 Growthed Flows, AM
- »2027 Growthed Flows, PM
- »2027 With Development, AM
- »2027 With Development, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2022 Surveyed Flows								
Arm 1	0.2	4.29	0.17	A	0.5	5.79	0.33	A
Arm 2	1.5	4.00	0.61	A	1.0	3.09	0.49	A
Arm 3	0.2	2.75	0.17	A	0.4	2.68	0.27	A
Arm 4	1.2	4.61	0.54	A	1.2	4.75	0.54	A
2027 Growthed Flows								
Arm 1	0.2	4.42	0.18	A	0.5	6.11	0.35	A
Arm 2	1.7	4.23	0.63	A	1.0	3.20	0.51	A
Arm 3	0.2	2.84	0.18	A	0.4	2.77	0.28	A
Arm 4	1.3	4.84	0.56	A	1.3	5.01	0.56	A
2027 With Development								
Arm 1	0.2	4.47	0.18	A	0.6	6.50	0.36	A
Arm 2	1.9	4.59	0.66	A	1.1	3.24	0.51	A
Arm 3	0.2	2.98	0.18	A	0.4	2.79	0.29	A
Arm 4	1.3	4.92	0.57	A	1.5	5.42	0.59	A

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

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

File summary

File Description

Title	Pilsworth Road - Park 86 Roundabout
Location	Pilsworth, Bury
Site number	
Date	13/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	EDD
Description	

Units

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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	08:00	09:30	15
D2	2022 Surveyed Flows	PM	ONE HOUR	17:00	18:30	15
D3	2027 Growthed Flows	AM	ONE HOUR	08:00	09:30	15
D4	2027 Growthed Flows	PM	ONE HOUR	17:00	18:30	15
D5	2027 With Development	AM	ONE HOUR	08:00	09:30	15
D6	2027 With Development	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022 Surveyed Flows, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	4.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	Roach Bank Road	
2	Pillsworth Road East	
3	Park 66 Retail Park	
4	Pillsworth Road West	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.50	6.90	10.4	21.0	40.0	16.0	
2	3.72	8.81	44.0	29.0	40.0	10.0	
3	7.30	8.05	7.0	44.0	40.0	10.0	
4	3.40	8.85	22.0	11.0	40.0	22.5	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.646	1644
2	0.816	2443
3	0.853	2610
4	0.682	1924

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	160	100.000
2		✓	1263	100.000
3		✓	238	100.000
4		✓	832	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	102	15	43
	2	161	0	197	905
	3	30	111	0	97
	4	59	661	112	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.17	4.29	0.2	A
2	0.61	4.00	1.5	A
3	0.17	2.75	0.2	A
4	0.54	4.61	1.2	A

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	120	663	1215	0.099	120	0.1	3.285	A
2	951	128	2339	0.406	948	0.7	2.584	A
3	179	832	1900	0.094	179	0.1	2.091	A
4	628	227	1769	0.354	624	0.5	3.139	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	144	794	1131	0.127	144	0.1	3.648	A
2	1135	153	2319	0.490	1134	1.0	3.038	A
3	214	998	1761	0.122	214	0.1	2.327	A
4	748	271	1739	0.430	747	0.7	3.628	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	176	972	1016	0.173	176	0.2	4.285	A
2	1391	187	2291	0.607	1388	1.5	3.978	A
3	282	1219	1571	0.167	282	0.2	2.750	A
4	916	332	1697	0.540	914	1.2	4.588	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	176	973	1015	0.174	176	0.2	4.292	A
2	1391	187	2291	0.607	1391	1.5	3.999	A
3	282	1221	1569	0.167	282	0.2	2.754	A
4	916	333	1697	0.540	916	1.2	4.608	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	144	796	1129	0.127	144	0.1	3.657	A
2	1135	153	2318	0.490	1138	1.0	3.056	A
3	214	999	1758	0.122	214	0.1	2.331	A
4	748	272	1738	0.430	750	0.8	3.645	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	120	668	1213	0.099	121	0.1	3.294	A
2	951	128	2339	0.407	952	0.7	2.599	A
3	179	838	1897	0.094	179	0.1	2.097	A
4	626	228	1769	0.354	627	0.6	3.157	A

2022 Surveyed Flows, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	3.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022 Surveyed Flows	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	276	100.000
2		✓	1022	100.000
3		✓	453	100.000
4		✓	806	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	220	10	46
	2	114	0	248	660
	3	22	236	0	195
	4	32	661	113	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.33	5.79	0.5	A
2	0.49	3.09	1.0	A
3	0.27	2.68	0.4	A
4	0.54	4.75	1.2	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	208	758	1154	0.180	207	0.2	3.797	A
2	769	127	2340	0.329	767	0.5	2.286	A
3	341	616	2085	0.164	340	0.2	2.062	A
4	607	279	1733	0.350	605	0.5	3.184	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	248	907	1058	0.235	248	0.3	4.443	A
2	919	152	2319	0.396	918	0.7	2.567	A
3	407	737	1982	0.205	407	0.3	2.285	A
4	725	334	1696	0.427	724	0.7	3.699	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	304	1110	926	0.328	303	0.5	5.771	A
2	1125	186	2292	0.491	1124	1.0	3.080	A
3	499	902	1841	0.271	498	0.4	2.681	A
4	887	409	1645	0.540	886	1.2	4.732	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	304	1112	925	0.328	304	0.5	5.793	A
2	1125	186	2291	0.491	1125	1.0	3.086	A
3	499	903	1840	0.271	499	0.4	2.683	A
4	887	410	1645	0.540	887	1.2	4.754	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	248	910	1056	0.235	249	0.3	4.464	A
2	919	152	2319	0.396	920	0.7	2.574	A
3	407	738	1980	0.206	408	0.3	2.289	A
4	725	335	1696	0.427	726	0.8	3.719	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	208	761	1152	0.180	208	0.2	3.818	A
2	769	127	2339	0.329	770	0.5	2.296	A
3	341	618	2083	0.164	341	0.2	2.068	A
4	607	280	1733	0.350	608	0.5	3.203	A

2027 Growthed Flows, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	4.31	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2027 Growthed Flows	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	164	100.000
2		✓	1303	100.000
3		✓	246	100.000
4		✓	859	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1	2	3	4
	1	0	105	15	44
	2	166	0	203	934
	3	31	115	0	100
	4	61	682	116	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.18	4.42	0.2	A
2	0.63	4.23	1.7	A
3	0.18	2.84	0.2	A
4	0.56	4.84	1.3	A

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	123	685	1201	0.103	123	0.1	3.337	A
2	981	131	2336	0.420	978	0.7	2.645	A
3	185	859	1878	0.099	185	0.1	2.126	A
4	647	234	1764	0.367	644	0.6	3.208	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	147	820	1114	0.132	147	0.2	3.723	A
2	1171	157	2315	0.506	1170	1.0	3.142	A
3	221	1027	1734	0.128	221	0.1	2.379	A
4	772	280	1733	0.446	771	0.8	3.740	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	181	1003	995	0.181	180	0.2	4.416	A
2	1435	192	2286	0.627	1432	1.7	4.201	A
3	271	1257	1538	0.176	271	0.2	2.840	A
4	946	343	1690	0.560	944	1.3	4.814	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	181	1005	994	0.182	181	0.2	4.424	A
2	1435	193	2286	0.628	1435	1.7	4.227	A
3	271	1260	1536	0.176	271	0.2	2.844	A
4	946	344	1690	0.560	946	1.3	4.839	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	147	823	1112	0.133	148	0.2	3.732	A
2	1171	158	2315	0.508	1174	1.0	3.162	A
3	221	1031	1731	0.128	221	0.1	2.384	A
4	772	281	1732	0.446	774	0.8	3.785	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	123	688	1199	0.103	124	0.1	3.350	A
2	981	132	2336	0.420	982	0.7	2.661	A
3	185	862	1875	0.099	185	0.1	2.132	A
4	647	235	1764	0.367	648	0.6	3.230	A

2027 Growthed Flows, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	4.01	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2027 Growthed Flows	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	284	100.000
2		✓	1055	100.000
3		✓	468	100.000
4		✓	832	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	227	10	47
	2	118	0	258	681
	3	23	244	0	201
	4	33	682	117	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.35	6.11	0.5	A
2	0.51	3.20	1.0	A
3	0.28	2.77	0.4	A
4	0.56	5.01	1.3	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	214	783	1138	0.188	213	0.2	3.887	A
2	794	130	2337	0.340	792	0.5	2.327	A
3	352	635	2088	0.170	352	0.2	2.095	A
4	626	289	1727	0.363	624	0.6	3.258	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	255	937	1038	0.246	255	0.3	4.592	A
2	948	156	2316	0.410	948	0.7	2.630	A
3	421	780	1962	0.214	420	0.3	2.335	A
4	748	346	1688	0.443	747	0.8	3.822	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	313	1146	903	0.346	312	0.5	6.083	A
2	1162	191	2287	0.508	1160	1.0	3.189	A
3	515	930	1817	0.284	515	0.4	2.765	A
4	916	423	1635	0.560	914	1.3	4.980	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	313	1148	902	0.347	313	0.5	6.110	A
2	1162	192	2287	0.508	1162	1.0	3.198	A
3	515	931	1816	0.284	515	0.4	2.767	A
4	916	424	1635	0.560	916	1.3	5.008	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	255	940	1037	0.246	256	0.3	4.617	A
2	948	157	2315	0.410	950	0.7	2.638	A
3	421	762	1960	0.215	421	0.3	2.340	A
4	748	347	1688	0.443	750	0.8	3.846	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	214	788	1136	0.188	214	0.2	3.908	A
2	794	131	2336	0.340	795	0.5	2.338	A
3	352	638	2066	0.171	353	0.2	2.100	A
4	626	290	1726	0.363	627	0.6	3.280	A

2027 With Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	4.54	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027 With Development	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	164	100.000
2		✓	1364	100.000
3		✓	246	100.000
4		✓	870	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	105	15	44
	2	168	0	203	995
	3	31	115	0	100
	4	61	693	116	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.18	4.47	0.2	A
2	0.66	4.59	1.9	A
3	0.18	2.98	0.2	A
4	0.57	4.92	1.3	A

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	123	693	1196	0.103	123	0.1	3.353	A
2	1027	131	2336	0.440	1024	0.8	2.736	A
3	185	904	1839	0.101	185	0.1	2.176	A
4	655	234	1764	0.371	653	0.6	3.232	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	147	830	1108	0.133	147	0.2	3.748	A
2	1226	157	2315	0.530	1225	1.1	3.297	A
3	221	1082	1687	0.131	221	0.2	2.454	A
4	782	280	1733	0.451	781	0.8	3.779	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	181	1015	988	0.183	180	0.2	4.458	A
2	1502	192	2286	0.657	1499	1.9	4.552	A
3	271	1324	1481	0.183	271	0.2	2.974	A
4	958	343	1690	0.567	956	1.3	4.891	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	181	1017	988	0.183	181	0.2	4.467	A
2	1502	193	2286	0.657	1502	1.9	4.589	A
3	271	1327	1479	0.183	271	0.2	2.979	A
4	958	344	1690	0.567	958	1.3	4.919	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	147	833	1108	0.133	148	0.2	3.757	A
2	1226	158	2315	0.530	1229	1.1	3.325	A
3	221	1088	1684	0.131	221	0.2	2.463	A
4	782	281	1732	0.451	784	0.8	3.805	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	123	697	1194	0.103	124	0.1	3.384	A
2	1027	132	2336	0.440	1028	0.8	2.758	A
3	185	908	1835	0.101	185	0.1	2.181	A
4	655	235	1764	0.371	656	0.6	3.252	A

2027 With Development, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	Arm 2 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	4.22	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027 With Development	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	284	100.000
2		✓	1067	100.000
3		✓	468	100.000
4		✓	882	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	227	10	47
	2	118	0	258	693
	3	23	244	0	201
	4	33	732	117	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.36	6.50	0.6	A
2	0.51	3.24	1.1	A
3	0.29	2.79	0.4	A
4	0.59	5.42	1.5	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	214	820	1114	0.192	213	0.2	3.991	A
2	803	130	2337	0.344	801	0.5	2.341	A
3	352	644	2081	0.171	352	0.2	2.105	A
4	664	289	1727	0.385	662	0.6	3.373	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	255	981	1010	0.253	255	0.3	4.768	A
2	959	156	2316	0.414	958	0.7	2.651	A
3	421	771	1953	0.215	420	0.3	2.349	A
4	793	346	1688	0.470	792	0.9	4.013	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	313	1201	888	0.360	312	0.6	6.465	A
2	1175	191	2287	0.514	1173	1.0	3.227	A
3	515	943	1805	0.285	515	0.4	2.789	A
4	971	423	1635	0.594	969	1.4	5.385	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	313	1203	888	0.361	313	0.6	6.503	A
2	1175	192	2287	0.514	1175	1.1	3.236	A
3	515	945	1804	0.286	515	0.4	2.791	A
4	971	424	1635	0.594	971	1.5	5.423	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	255	985	1007	0.253	255	0.3	4.798	A
2	959	157	2315	0.414	961	0.7	2.659	A
3	421	773	1951	0.216	421	0.3	2.355	A
4	793	347	1688	0.470	795	0.9	4.043	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	214	824	1111	0.192	214	0.2	4.016	A
2	803	131	2338	0.344	804	0.5	2.350	A
3	352	647	2059	0.171	353	0.2	2.111	A
4	664	290	1726	0.385	665	0.6	3.398	A

APPENDIX 10

LINSIG Output – Pilsworth Road/M66 Junction 3

User and Project Details

Project:	Proposed JD Sports Campus, Pilsworth Road
Title:	M66 Junction 3
Location:	Pilsworth
Additional detail:	Based on Agreed Model for Park 66 Planning Application (Planning Ref:60998).
File name:	M66 Junction 3.lsg3x
Author:	
Company:	Eddisons
Address:	

Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Traffic		7	7
D	Ind. Arrow	B	4	4
E	Traffic		7	7
F	Traffic		7	7
G	Traffic		7	7
H	Ind. Arrow	F	4	4

Phase Intergreens Matrix

	Starting Phase								
Terminating Phase		A	B	C	D	E	F	G	H
	A		-	6	4	-	-	-	-
	B	-		6	-	-	-	-	-
	C	8	8		8	-	-	-	-
	D	6	-	6		-	-	-	-
	E	-	-	-	-		-	6	4
	F	-	-	-	-	-		6	-
	G	-	-	-	-	8	8		8
	H	-	-	-	-	6	-	6	

Phase Delays

Term. Stage	Start Stage	Phase	Type	Value	Cont value
There are no Phase Delays defined					

Prohibited Stage Change

From Stage	To Stage					
		1	2	3	4	5
	1			4	6	6
	2	6		6	6	6
	3	8	8		8	8
	4	8	8	6		8
	5	8	8	6	8	

Phases in Stage

Stage No.	Phases in Stage
1	A B E F
2	B D F H
3	C G
4	C E F
5	A B G

Give-Way Lane Input Data

Junction: Unnamed Junction											
Lane	Movement	Max Flow when Giving Way (PCU/Hr)	Min Flow when Giving Way (PCU/Hr)	Opposing Lane	Opp. Lane Coeff.	Opp. Mvmnts.	Right Turn Storage (PCU)	Non-Blocking Storage (PCU)	RTF	Right Turn Move up (s)	Max Turns in Intergreen (PCU)
2/2 (Pilsworth Road West Internal)	7/1 (Right)	1439	0	8/1	1.09	All	3.00	-	0.50	3	3.00
				8/2	1.09	All					
10/2 (Pilsworth Road East Internal)	3/1 (Right)	1439	0	1/1	1.09	All	3.00	-	0.50	3	3.00
				1/2	1.09	All					

Lane Input Data

Junction: Unnamed Junction												
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (Pilsworth Road West)	U	A	2	3	60.0	Geom	-	3.25	0.00	Y	Arm 2 Ahead	Inf
1/2 (Pilsworth Road West)	U	A	2	3	14.0	Geom	-	3.25	0.00	N	Arm 3 Left	12.00
2/1 (Pilsworth Road West Internal)	U	F	2	3	15.0	Geom	-	2.75	0.00	Y	Arm 2 Ahead	Inf
2/2 (Pilsworth Road West Internal)	O	F H	2	3	15.0	Geom	-	2.75	0.00	N	Arm 7 Right	15.00
3/1	U		2	3	60.0	Inf	-	-	-	-	-	-
4/1 (Northbound Offslip)	U	C	2	3	60.0	Geom	-	4.00	0.00	Y	Arm 5 Left	15.00
4/2 (Northbound Offslip)	U	C	2	3	60.0	Geom	-	4.00	0.00	N	Arm 2 Right	15.00
											Arm 3 Ahead	Inf
5/1	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1	U		2	3	60.0	Inf	-	-	-	-	-	-
7/1	U		2	3	60.0	Inf	-	-	-	-	-	-
8/1 (Pilsworth Road East)	U	E	2	3	8.0	Geom	-	3.25	0.00	Y	Arm 7 Left	Inf
8/2 (Pilsworth Road East)	U	E	2	3	60.0	Geom	-	3.25	0.00	N	Arm 10 Ahead	Inf
9/1 (Southbound Offslip)	U	G	2	3	60.0	Geom	-	3.25	0.00	Y	Arm 6 Left	12.00
9/2 (Southbound Offslip)	U	G	2	3	60.0	Geom	-	3.25	0.00	N	Arm 7 Ahead	Inf
											Arm 10 Right	15.00
10/1 (Pilsworth Road East Internal)	U	B	2	3	15.0	Geom	-	2.75	0.00	Y	Arm 5 Ahead	Inf
10/2 (Pilsworth Road East Internal)	O	B D	2	3	15.0	Geom	-	2.75	0.00	N	Arm 3 Right	15.00

Scenario 2: '2022 Surveyed Flows - PM Peak' (FG2: '2022 Surveyed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Page 27

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	36.7 %	1798	1798		
				Arm 3 Left	12.00	63.3 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	98.9 %	1961	1961		
				Arm 3 Ahead	Inf	1.1 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	96.3 %	1732	1732		
				Arm 7 Ahead	Inf	3.7 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 3: '2027 Growthed Flows - AM Peak' (FG3: '2027 Growthed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Page 27

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	31.7 %	1787	1787		
				Arm 3 Left	12.00	68.3 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	95.5 %	1967	1967		
				Arm 3 Ahead	Inf	4.5 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	98.8 %	1727	1727		
				Arm 7 Ahead	Inf	1.3 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 4: '2027 Growthed Flows - PM Peak' (FG4: '2027 Growthed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Page 27

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	36.7 %	1798	1798		
				Arm 3 Left	12.00	63.3 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	99.0 %	1961	1961		
				Arm 3 Ahead	Inf	1.0 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	96.4 %	1731	1731		
				Arm 7 Ahead	Inf	3.6 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 5: '2027 With Development Flows - AM Peak' (FG5: '2027 With Development Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	31.7 %	1787	1787		
				Arm 3 Left	12.00	68.3 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	95.5 %	1967	1967		
				Arm 3 Ahead	Inf	4.5 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	98.8 %	1727	1727		
				Arm 7 Ahead	Inf	1.3 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 6: '2027 With Development Flows - PM Peak' (FG6: '2027 With Development Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	36.4 %	1797	1797		
				Arm 3 Left	12.00	63.6 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	99.0 %	1961	1961		
				Arm 3 Ahead	Inf	1.0 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	96.4 %	1731	1731		
				Arm 7 Ahead	Inf	3.6 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 7: '2027 Growthed Flows (Revised Cycle Time) - AM Peak' (FG3: '2027 Growthed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	31.7 %	1787	1787
				Arm 3 Left	12.00	68.3 %		
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845
3/1	Infinite Saturation Flow						Inf	Inf
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	95.5 %	1967	1967
				Arm 3 Ahead	Inf	4.5 %		
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf
7/1	Infinite Saturation Flow						Inf	Inf
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	98.8 %	1727	1727
				Arm 7 Ahead	Inf	1.3 %		
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845

Scenario 8: '2027 Growthed Flows (Revised Cycle Time) - PM Peak' (FG4: '2027 Growthed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	36.7 %	1798	1798		
				Arm 3 Left	12.00	63.3 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	99.0 %	1961	1961		
				Arm 3 Ahead	Inf	1.0 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	96.4 %	1731	1731		
				Arm 7 Ahead	Inf	3.6 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 9: '2027 With Development Flows (Revised Cycle Time) - AM Peak' (FG5: '2027 With Development Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	31.7 %	1787	1787		
				Arm 3 Left	12.00	68.3 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	95.5 %	1967	1967		
				Arm 3 Ahead	Inf	4.5 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	98.8 %	1727	1727		
				Arm 7 Ahead	Inf	1.3 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Scenario 10: '2027 With Development Flows (Revised Cycle Time) - PM Peak' (FG6: '2027 With Development Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1 (Pilsworth Road West)	3.25	0.00	Y	Arm 2 Ahead	Inf	36.4 %	1797	1797		
				Arm 3 Left	12.00	63.6 %				
1/2 (Pilsworth Road West)	3.25	0.00	N	Arm 2 Ahead	Inf	100.0 %	2080	2080		
2/1 (Pilsworth Road West Internal)	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890		
2/2 (Pilsworth Road West Internal)	2.75	0.00	N	Arm 7 Right	15.00	100.0 %	1845	1845		
3/1	Infinite Saturation Flow						Inf	Inf		
4/1 (Northbound Offslip)	4.00	0.00	Y	Arm 5 Left	15.00	100.0 %	1832	1832		
4/2 (Northbound Offslip)	4.00	0.00	N	Arm 2 Right	15.00	99.0 %	1961	1961		
				Arm 3 Ahead	Inf	1.0 %				
5/1	Infinite Saturation Flow						Inf	Inf		
6/1	Infinite Saturation Flow						Inf	Inf		
7/1	Infinite Saturation Flow						Inf	Inf		
8/1 (Pilsworth Road East)	3.25	0.00	Y	Arm 7 Left	Inf	100.0 %	1940	1940		
8/2 (Pilsworth Road East)	3.25	0.00	N	Arm 10 Ahead	Inf	100.0 %	2080	2080		
9/1 (Southbound Offslip)	3.25	0.00	Y	Arm 6 Left	12.00	96.4 %	1731	1731		
				Arm 7 Ahead	Inf	3.6 %				
9/2 (Southbound Offslip)	3.25	0.00	N	Arm 10 Right	15.00	100.0 %	1891	1891		
10/1 (Pilsworth Road East Internal)	2.75	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1890	1890		
10/2 (Pilsworth Road East Internal)	2.75	0.00	N	Arm 3 Right	15.00	100.0 %	1845	1845		

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2022 Surveyed Flows - AM Peak'	08:00	09:00	01:00	
2: '2022 Surveyed Flows - PM Peak'	17:00	18:00	01:00	
3: '2027 Growthed Flows - AM Peak'	08:00	09:00	01:00	
4: '2027 Growthed Flows - PM Peak'	17:00	18:00	01:00	
5: '2027 With Development Flows - AM Peak'	08:00	09:00	01:00	
6: '2027 With Development Flows - PM Peak'	17:00	18:00	01:00	

Traffic Flows, Desired

FG1: '2022 Surveyed Flows - AM Peak'

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	430	1	77	508
	B	342	0	363	159	864
	C	14	558	0	289	861
	D	64	259	273	0	596
	Tot.	420	1247	637	525	2829

FG2: '2022 Surveyed Flows - PM Peak'

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	357	1	26	384
	B	413	0	482	239	1134
	C	3	436	0	275	714
	D	64	233	267	0	564
	Tot.	480	1026	750	540	2796

FG3: '2027 Growthed Flows - AM Peak'

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	444	1	79	524
	B	353	0	375	164	892
	C	14	576	0	298	888
	D	66	267	282	0	615
	Tot.	433	1287	658	541	2919

FG4: '2027 Growthed Flows - PM Peak'

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	369	1	27	397
	B	426	0	498	247	1171
	C	3	450	0	284	737
	D	66	241	276	0	583
	Tot.	495	1060	775	558	2888

FG5: '2027 With Development Flows - AM Peak'

Desired Flow :

	Destination					
Origin		A	B	C	D	Tot.
	A	0	462	1	79	542
	B	356	0	381	165	902
	C	14	613	0	298	925
	D	66	273	282	0	621
	Tot.	436	1348	664	542	2990

FG6: '2027 With Development Flows - PM Peak'

Desired Flow :

	Destination					
Origin		A	B	C	D	Tot.
	A	0	372	1	27	400
	B	441	0	528	252	1221
	C	3	457	0	284	744
	D	66	242	276	0	584
	Tot.	510	1071	805	563	2949

Stage Timings

Scenario 1: '2022 Surveyed Flows - AM Peak' (FG1: '2022 Surveyed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	7	4	7	7	5
Change Point	0	15	23	36	51

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	91.0%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	91.0%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	20	-	864	1787:2080	586+425	85.4 : 85.4%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	22	-	448	1890	709	63.2%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	22	4	363	1845	539	67.3%
3/1		U	N/A	N/A	-		-	-	-	420	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	558	1832	658	84.8%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	303	1967	707	42.9%
5/1		U	N/A	N/A	-		-	-	-	1247	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	525	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	637	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	14	-	596	2080:1940	520+485	62.1 : 56.3%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	14	-	78	1727	432	18.1%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	14	-	430	1891	473	91.0%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	28	-	689	1890	856	80.5%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	28	4	64	1845	371	17.3%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	81	205	141	17.2	14.9	0.5	32.6	-	-	-	-
Unnamed Junction	-	-	81	205	141	17.2	14.9	0.5	32.6	-	-	-	-
1/1+1/2	864	864	-	-	-	4.6	2.8	-	7.4 (4.4+3.0)	30.8 (31.9:29.3)	8.2	2.8	11.0
2/1	448	448	-	-	-	1.1	0.9	-	2.0	15.7	4.7	0.9	5.6
2/2	363	363	50	173	140	0.9	1.0	0.3	2.3	22.7	6.4	1.0	7.4
3/1	420	420	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	558	558	-	-	-	2.9	2.6	-	5.6	35.9	9.0	2.6	11.6
4/2	303	303	-	-	-	1.3	0.4	-	1.7	20.0	4.0	0.4	4.4
5/1	1247	1247	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	525	525	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	637	637	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	596	596	-	-	-	1.8	0.7	-	2.5 (1.4+1.2)	15.3 (15.4:15.2)	3.0	0.7	3.7
9/1	78	78	-	-	-	0.2	0.1	-	0.3	14.8	0.6	0.1	0.7
9/2	430	430	-	-	-	1.5	4.2	-	5.7	47.5	4.3	4.2	8.5
10/1	689	689	-	-	-	2.9	2.0	-	4.9	25.5	11.7	2.0	13.7
10/2	64	64	31	32	1	0.1	0.1	0.2	0.4	20.5	0.6	0.1	0.7
C1 PRC for Signalled Lanes (%): -1.1 PRC Over All Lanes (%): -1.1 Total Delay for Signalled Lanes (pcuHr): 32.64 Total Delay Over All Lanes(pcuHr): 32.64 Cycle Time (s): 64													

Stage Timings

Scenario 2: '2022 Surveyed Flows - PM Peak' (FG2: '2022 Surveyed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	7	4	7	7	5
Change Point	0	15	23	36	51

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	110.5%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	110.5%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	20	-	1134	1798:2080	590+436	110.5 : 110.5%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	22	-	514	1890	709	69.3%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	22	4	482	1845	539	89.4%
3/1		U	N/A	N/A	-		-	-	-	480	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	436	1832	658	66.2%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	278	1961	705	39.4%
5/1		U	N/A	N/A	-		-	-	-	1026	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	540	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	750	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	14	-	564	2080:1940	520+485	57.1 : 55.1%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	14	-	27	1732	433	6.2%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	14	-	357	1891	473	75.5%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	28	-	590	1890	856	68.9%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	28	4	64	1845	255	25.1%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	90	236	220	20.0	68.3	0.7	89.1	-	-	-	-
Unnamed Junction	-	-	90	236	220	20.0	68.3	0.7	89.1	-	-	-	-
1/1+1/2	1134	1072	-	-	-	8.5	58.8	-	67.3 (39.8+27.5)	213.5 (219.6:205.4)	12.7	58.8	71.5
2/1	491	491	-	-	-	1.0	1.1	-	2.1	15.7	4.5	1.1	5.6
2/2	482	482	90	173	219	2.0	3.7	0.5	6.2	46.5	8.5	3.7	12.3
3/1	441	441	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	436	436	-	-	-	2.1	1.0	-	3.1	25.3	6.4	1.0	7.4
4/2	278	278	-	-	-	1.2	0.3	-	1.5	19.5	3.6	0.3	4.0
5/1	1026	1026	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	517	517	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	750	750	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	564	564	-	-	-	1.7	0.6	-	2.3 (1.2+1.1)	14.9 (14.9:14.8)	2.6	0.6	3.3
9/1	27	27	-	-	-	0.1	0.0	-	0.1	14.1	0.2	0.0	0.2
9/2	357	357	-	-	-	1.1	1.5	-	2.6	26.6	3.4	1.5	4.9
10/1	590	590	-	-	-	2.3	1.1	-	3.4	20.7	8.7	1.1	9.8
10/2	64	64	0	63	1	0.1	0.2	0.2	0.5	25.7	0.6	0.2	0.8
C1 PRC for Signalled Lanes (%): -22.8 PRC Over All Lanes (%): -22.8 Total Delay for Signalled Lanes (pcuHr): 89.11 Total Delay Over All Lanes(pcuHr): 89.11 Cycle Time (s): 64													

Stage Timings

Scenario 3: '2027 Growthed Flows - AM Peak' (FG3: '2027 Growthed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	7	4	7	7	5
Change Point	0	15	23	36	51

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	93.9%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	93.9%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	20	-	892	1787:2080	586+425	88.2 : 88.2%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	22	-	462	1890	709	65.2%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	22	4	375	1845	539	69.5%
3/1		U	N/A	N/A	-		-	-	-	433	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	576	1832	658	87.5%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	312	1967	707	44.1%
5/1		U	N/A	N/A	-		-	-	-	1287	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	541	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	658	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	14	-	615	2080:1940	520+485	64.0 : 58.1%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	14	-	80	1727	432	18.5%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	14	-	444	1891	473	93.9%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	28	-	711	1890	856	83.0%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	28	4	66	1845	342	19.3%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	74	216	151	18.1	18.2	0.6	36.8	-	-	-	-
Unnamed Junction	-	-	74	216	151	18.1	18.2	0.6	36.8	-	-	-	-
1/1+1/2	892	892	-	-	-	4.8	3.5	-	8.3 (5.0+3.3)	33.4 (34.5:31.8)	8.6	3.5	12.1
2/1	462	462	-	-	-	1.2	0.9	-	2.1	16.5	4.9	0.9	5.8
2/2	375	375	52	173	150	1.0	1.1	0.4	2.5	23.7	6.6	1.1	7.8
3/1	433	433	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	576	576	-	-	-	3.1	3.2	-	6.3	39.4	9.4	3.2	12.7
4/2	312	312	-	-	-	1.4	0.4	-	1.7	20.2	4.2	0.4	4.6
5/1	1287	1287	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	541	541	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	658	658	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	615	615	-	-	-	1.9	0.8	-	2.7 (1.4+1.2)	15.5 (15.6:15.4)	3.1	0.8	3.8
9/1	80	80	-	-	-	0.2	0.1	-	0.3	14.9	0.6	0.1	0.8
9/2	444	444	-	-	-	1.6	5.6	-	7.2	58.0	4.4	5.6	10.0
10/1	711	711	-	-	-	3.0	2.4	-	5.3	26.9	12.3	2.4	14.6
10/2	66	66	22	43	1	0.1	0.1	0.2	0.4	21.7	0.7	0.1	0.8
C1 PRC for Signalled Lanes (%): -4.4 PRC Over All Lanes (%): -4.4 Total Delay for Signalled Lanes (pcuHr): 36.78 Total Delay Over All Lanes(pcuHr): 36.78 Cycle Time (s): 64													

Stage Timings

Scenario 4: '2027 Growthed Flows - PM Peak' (FG4: '2027 Growthed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	7	4	7	7	5
Change Point	0	15	23	36	51

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	114.1%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	114.1%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	20	-	1171	1798:2080	590+437	114.1 : 114.1%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	22	-	531	1890	709	70.6%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	22	4	498	1845	539	90.9%
3/1		U	N/A	N/A	-		-	-	-	495	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	450	1832	658	68.4%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	287	1961	705	40.7%
5/1		U	N/A	N/A	-		-	-	-	1060	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	558	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	775	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	14	-	583	2080:1940	520+485	59.0 : 56.9%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	14	-	28	1731	433	6.5%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	14	-	369	1891	473	78.1%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	28	-	610	1890	856	71.2%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	28	4	66	1845	255	25.9%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	88	238	230	21.6	86.8	0.7	109.1	-	-	-	-
Unnamed Junction	-	-	88	238	230	21.6	86.8	0.7	109.1	-	-	-	-
1/1+1/2	1171	1080	-	-	-	9.5	76.1	-	85.6 (50.5+35.1)	263.2 (270.3:253.7)	17.6	76.1	93.7
2/1	501	501	-	-	-	1.1	1.2	-	2.3	16.6	4.7	1.2	5.8
2/2	490	490	88	173	229	2.1	4.2	0.5	6.9	50.3	8.7	4.2	12.9
3/1	442	442	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	450	450	-	-	-	2.2	1.1	-	3.2	26.0	6.7	1.1	7.8
4/2	287	287	-	-	-	1.2	0.3	-	1.6	19.7	3.8	0.3	4.2
5/1	1060	1060	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	528	528	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	767	767	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	583	583	-	-	-	1.8	0.7	-	2.4 (1.3+1.2)	15.1 (15.1:15.1)	2.7	0.7	3.4
9/1	28	28	-	-	-	0.1	0.0	-	0.1	14.1	0.2	0.0	0.3
9/2	369	369	-	-	-	1.2	1.7	-	2.9	28.3	3.5	1.7	5.2
10/1	610	610	-	-	-	2.4	1.2	-	3.6	21.4	9.0	1.2	10.2
10/2	66	66	0	65	1	0.1	0.2	0.2	0.5	25.8	0.7	0.2	0.8
C1 PRC for Signalled Lanes (%): -26.7 PRC Over All Lanes (%): -26.7 Total Delay for Signalled Lanes (pcuHr): 109.15 Total Delay Over All Lanes(pcuHr): 109.15 Cycle Time (s): 64													

Stage Timings

Scenario 5: '2027 With Development Flows - AM Peak' (FG5: '2027 With Development Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	7	4	7	7	5
Change Point	0	15	23	36	51

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	97.7%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	97.7%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	20	-	902	1787:2080	586+429	88.9 : 88.9%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	22	-	463	1890	709	65.3%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	22	4	381	1845	539	70.6%
3/1		U	N/A	N/A	-		-	-	-	436	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	613	1832	658	93.1%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	312	1967	707	44.1%
5/1		U	N/A	N/A	-		-	-	-	1348	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	542	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	664	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	14	-	621	2080:1940	520+485	65.2 : 58.1%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	14	-	80	1727	432	18.5%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	14	-	462	1891	473	97.7%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	28	-	735	1890	856	85.8%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	28	4	66	1845	342	19.3%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	79	217	151	18.7	24.0	0.6	43.3	-	-	-	-
Unnamed Junction	-	-	79	217	151	18.7	24.0	0.6	43.3	-	-	-	-
1/1+1/2	902	902	-	-	-	4.8	3.7	-	8.6 (5.1+3.5)	34.2 (35.3:32.6)	8.7	3.7	12.4
2/1	463	463	-	-	-	1.2	0.9	-	2.1	16.5	4.9	0.9	5.8
2/2	381	381	58	173	150	1.0	1.2	0.4	2.6	24.6	6.8	1.2	7.9
3/1	436	436	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	613	613	-	-	-	3.4	5.4	-	8.8	51.7	10.4	5.4	15.8
4/2	312	312	-	-	-	1.4	0.4	-	1.7	20.2	4.2	0.4	4.6
5/1	1348	1348	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	542	542	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	664	664	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	621	621	-	-	-	1.9	0.8	-	2.7 (1.5+1.2)	15.6 (15.7:15.5)	3.1	0.8	3.9
9/1	80	80	-	-	-	0.2	0.1	-	0.3	14.9	0.6	0.1	0.8
9/2	462	462	-	-	-	1.7	8.4	-	10.1	79.0	4.6	8.4	13.0
10/1	735	735	-	-	-	3.0	2.9	-	5.9	29.1	12.8	2.9	15.7
10/2	66	66	21	44	1	0.1	0.1	0.2	0.4	21.7	0.7	0.1	0.8
C1 PRC for Signalled Lanes (%): -8.6 PRC Over All Lanes (%): -8.6 Total Delay for Signalled Lanes (pcuHr): 43.34 Total Delay Over All Lanes(pcuHr): 43.34 Cycle Time (s): 64													

Stage Timings

Scenario 6: '2027 With Development Flows - PM Peak' (FG6: '2027 With Development Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	7	4	7	7	5
Change Point	0	15	23	36	51

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	117.5%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	117.5%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	20	-	1221	1797:2080	590+449	117.5 : 117.5%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	22	-	536	1890	709	70.3%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	22	4	528	1845	539	90.6%
3/1		U	N/A	N/A	-		-	-	-	510	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	457	1832	658	69.4%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	287	1961	705	40.7%
5/1		U	N/A	N/A	-		-	-	-	1071	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	563	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	805	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	14	-	584	2080:1940	520+485	59.2 : 56.9%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	14	-	28	1731	433	6.5%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	14	-	372	1891	473	78.7%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	28	-	614	1890	856	71.7%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	28	4	66	1845	255	25.9%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	88	238	229	23.2	105.0	0.7	128.9	-	-	-	-
Unnamed Junction	-	-	88	238	229	23.2	105.0	0.7	128.9	-	-	-	-
1/1+1/2	1221	1078	-	-	-	11.0	94.3	-	105.3 (61.1+44.1)	310.4 (317.6:301.0)	19.4	94.3	113.7
2/1	498	498	-	-	-	1.1	1.2	-	2.3	16.5	4.7	1.2	5.8
2/2	489	489	88	173	228	2.1	4.2	0.5	6.8	49.9	8.7	4.2	12.8
3/1	444	444	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	457	457	-	-	-	2.2	1.1	-	3.3	26.3	6.9	1.1	8.0
4/2	287	287	-	-	-	1.2	0.3	-	1.6	19.7	3.8	0.3	4.2
5/1	1071	1071	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	525	525	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	766	766	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	584	584	-	-	-	1.8	0.7	-	2.5 (1.3+1.2)	15.1 (15.1:15.1)	2.7	0.7	3.4
9/1	28	28	-	-	-	0.1	0.0	-	0.1	14.1	0.2	0.0	0.3
9/2	372	372	-	-	-	1.2	1.8	-	3.0	28.8	3.5	1.8	5.3
10/1	614	614	-	-	-	2.4	1.3	-	3.7	21.6	9.0	1.3	10.3
10/2	66	66	0	65	1	0.1	0.2	0.2	0.5	25.8	0.7	0.2	0.8
C1 PRC for Signalled Lanes (%): -30.6 PRC Over All Lanes (%): -30.6 Total Delay for Signalled Lanes (pcuHr): 128.94 Total Delay Over All Lanes(pcuHr): 128.94 Cycle Time (s): 64													

Stage Timings

Scenario 7: '2027 Growthed Flows (Revised Cycle Time) - AM Peak' (FG3: '2027 Growthed Flows - AM Peak',
Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	9	4	10	9	8
Change Point	0	17	25	41	58

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	83.1%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	83.1%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	25	-	892	1787:2080	628+455	82.3 : 82.3%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	26	-	462	1890	715	64.6%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	26	4	375	1845	494	75.9%
3/1		U	N/A	N/A	-		-	-	-	433	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	27	-	576	1832	693	83.1%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	27	-	312	1967	744	41.9%
5/1		U	N/A	N/A	-		-	-	-	1287	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	541	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	658	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	18	-	615	2080:1940	562+508	59.2 : 55.5%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	20	-	80	1727	513	15.6%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	20	-	444	1891	562	79.0%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	33	-	711	1890	868	81.9%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	33	4	66	1845	333	19.8%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	117	177	147	20.2	12.4	0.7	33.3	-	-	-	-
Unnamed Junction	-	-	117	177	147	20.2	12.4	0.7	33.3	-	-	-	-
1/1+1/2	892	892	-	-	-	5.1	2.3	-	7.4 (4.5+2.9)	29.9 (31.1:28.2)	9.6	2.3	11.9
2/1	462	462	-	-	-	1.4	0.9	-	2.3	17.8	5.7	0.9	6.6
2/2	375	375	79	150	146	1.5	1.5	0.5	3.5	33.4	7.7	1.5	9.2
3/1	433	433	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	576	576	-	-	-	3.3	2.4	-	5.7	35.6	10.7	2.4	13.1
4/2	312	312	-	-	-	1.5	0.4	-	1.8	21.2	4.7	0.4	5.0
5/1	1287	1287	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	541	541	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	658	658	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	615	615	-	-	-	2.0	0.7	-	2.7 (1.5+1.2)	15.8 (15.9:15.7)	3.3	0.7	4.0
9/1	80	80	-	-	-	0.2	0.1	-	0.3	14.0	0.7	0.1	0.8
9/2	444	444	-	-	-	1.5	1.8	-	3.3	27.0	4.8	1.8	6.6
10/1	711	711	-	-	-	3.6	2.2	-	5.8	29.2	14.2	2.2	16.4
10/2	66	66	38	27	1	0.1	0.1	0.2	0.4	24.3	0.8	0.1	0.9
C1 PRC for Signalled Lanes (%): 8.3 PRC Over All Lanes (%): 8.3 Total Delay for Signalled Lanes (pcuHr): 33.27 Total Delay Over All Lanes(pcuHr): 33.27 Cycle Time (s): 74													

Stage Timings

Scenario 8: '2027 Growthed Flows (Revised Cycle Time) - PM Peak' (FG4: '2027 Growthed Flows - PM Peak',
Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	15	4	7	7	7
Change Point	0	23	31	44	59

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	92.8%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	92.8%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	30	-	1171	1798:2080	726+537	92.8 : 92.8%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	30	-	531	1890	817	65.0%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	30	4	498	1845	572	87.1%
3/1		U	N/A	N/A	-		-	-	-	495	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	450	1832	569	79.0%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	287	1961	609	47.1%
5/1		U	N/A	N/A	-		-	-	-	1060	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	558	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	775	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	22	-	583	2080:1940	643+578	47.8 : 47.8%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	16	-	28	1731	421	6.6%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	16	-	369	1891	460	80.2%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	38	-	610	1890	996	61.2%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	38	4	66	1845	307	21.5%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	174	204	186	20.0	15.4	1.0	36.4	-	-	-	-
Unnamed Junction	-	-	174	204	186	20.0	15.4	1.0	36.4	-	-	-	-
1/1+1/2	1171	1171	-	-	-	6.0	5.7	-	11.7 (7.0+4.7)	36.0 (37.5:33.9)	12.7	5.7	18.4
2/1	531	531	-	-	-	1.5	0.9	-	2.4	16.3	5.4	0.9	6.3
2/2	498	498	163	150	186	2.2	3.1	0.7	6.1	43.8	10.2	3.1	13.3
3/1	495	495	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	450	450	-	-	-	2.9	1.8	-	4.7	37.9	8.4	1.8	10.2
4/2	287	287	-	-	-	1.6	0.4	-	2.1	26.2	4.7	0.4	5.1
5/1	1060	1060	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	558	558	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	775	775	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	583	583	-	-	-	1.6	0.5	-	2.1 (1.1+1.0)	12.9 (12.9:12.8)	2.7	0.5	3.2
9/1	28	28	-	-	-	0.1	0.0	-	0.1	16.4	0.3	0.0	0.3
9/2	369	369	-	-	-	1.6	1.9	-	3.5	34.2	4.5	1.9	6.5
10/1	610	610	-	-	-	2.4	0.8	-	3.2	18.6	10.0	0.8	10.8
10/2	66	66	11	54	1	0.1	0.1	0.3	0.5	28.8	0.7	0.1	0.8
C1 PRC for Signalled Lanes (%): -3.1 PRC Over All Lanes (%): -3.1 Total Delay for Signalled Lanes (pcuHr): 36.40 Total Delay Over All Lanes(pcuHr): 36.40 Cycle Time (s): 74													

Stage Timings

Scenario 9: '2027 With Development Flows (Revised Cycle Time) - AM Peak' (FG5: '2027 With Development Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	9	4	11	9	7
Change Point	0	17	25	42	59

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	87.2%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	87.2%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	24	-	902	1787:2080	604+441	86.3 : 86.3%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	26	-	463	1890	715	64.7%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	26	4	381	1845	496	76.8%
3/1		U	N/A	N/A	-		-	-	-	436	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	28	-	613	1832	718	85.4%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	28	-	312	1967	771	40.5%
5/1		U	N/A	N/A	-		-	-	-	1348	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	542	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	664	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	18	-	621	2080:1940	562+485	60.3 : 58.2%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	20	-	80	1727	513	15.6%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	20	-	462	1891	562	82.2%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	32	-	735	1890	843	87.2%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	32	4	66	1845	323	20.4%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	113	187	147	21.1	15.0	0.7	36.9	-	-	-	-
Unnamed Junction	-	-	113	187	147	21.1	15.0	0.7	36.9	-	-	-	-
1/1+1/2	902	902	-	-	-	5.4	3.0	-	8.4 (5.1+3.4)	33.7 (35.0:31.9)	10.0	3.0	13.0
2/1	463	463	-	-	-	1.4	0.9	-	2.3	17.9	5.7	0.9	6.6
2/2	381	381	85	150	146	1.4	1.6	0.5	3.5	33.4	7.8	1.6	9.4
3/1	436	436	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	613	613	-	-	-	3.5	2.8	-	6.3	36.9	11.4	2.8	14.2
4/2	312	312	-	-	-	1.4	0.3	-	1.7	20.2	4.6	0.3	4.9
5/1	1348	1348	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	542	542	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	664	664	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	621	621	-	-	-	2.1	0.7	-	2.8 (1.5+1.3)	16.3 (16.4:16.1)	3.6	0.7	4.3
9/1	80	80	-	-	-	0.2	0.1	-	0.3	14.0	0.7	0.1	0.8
9/2	462	462	-	-	-	1.6	2.2	-	3.8	29.6	5.0	2.2	7.2
10/1	735	735	-	-	-	4.0	3.2	-	7.2	35.2	14.9	3.2	18.1
10/2	66	66	28	38	1	0.1	0.1	0.2	0.5	25.3	0.8	0.1	0.9
C1 PRC for Signalled Lanes (%): 3.2 PRC Over All Lanes (%): 3.2 Total Delay for Signalled Lanes (pcuHr): 36.87 Total Delay Over All Lanes(pcuHr): 36.87 Cycle Time (s): 74													

Stage Timings

Scenario 10: '2027 With Development Flows (Revised Cycle Time) - PM Peak' (FG6: '2027 With Development Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3	4	5
Duration	16	4	7	7	6
Change Point	0	24	32	45	60

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	95.6%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	95.6%
1/1+1/2	Pilsworth Road West Ahead Left	U	N/A	N/A	A		1	30	-	1221	1797:2080	725+552	95.6 : 95.6%
2/1	Pilsworth Road West Internal Ahead	U	N/A	N/A	F		2	31	-	536	1890	843	63.6%
2/2	Pilsworth Road West Internal Right	O	N/A	N/A	F	H	2	31	4	528	1845	582	90.7%
3/1		U	N/A	N/A	-		-	-	-	510	Inf	Inf	0.0%
4/1	Northbound Offslip Left	U	N/A	N/A	C		1	22	-	457	1832	569	80.3%
4/2	Northbound Offslip Right Ahead	U	N/A	N/A	C		1	22	-	287	1961	609	47.1%
5/1		U	N/A	N/A	-		-	-	-	1071	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	563	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	805	Inf	Inf	0.0%
8/2+8/1	Pilsworth Road East Left Ahead	U	N/A	N/A	E		2	23	-	584	2080:1940	657+589	46.9 : 46.9%
9/1	Southbound Offslip Left Ahead	U	N/A	N/A	G		2	15	-	28	1731	398	7.0%
9/2	Southbound Offslip Right	U	N/A	N/A	G		2	15	-	372	1891	434	85.6%
10/1	Pilsworth Road East Internal Ahead	U	N/A	N/A	B		1	38	-	614	1890	996	61.6%
10/2	Pilsworth Road East Internal Right	O	N/A	N/A	B	D	1	38	4	66	1845	301	21.9%

LinSig V1 style report

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	179	209	206	20.6	20.0	1.1	41.7	-	-	-	-
Unnamed Junction	-	-	179	209	206	20.6	20.0	1.1	41.7	-	-	-	-
1/1+1/2	1221	1221	-	-	-	6.4	8.4	-	14.7 (8.7+6.1)	43.4 (45.0:41.4)	13.3	8.4	21.6
2/1	536	536	-	-	-	1.4	0.9	-	2.3	15.3	5.4	0.9	6.3
2/2	528	528	173	150	205	2.4	4.2	0.8	7.4	50.4	10.8	4.2	15.0
3/1	510	510	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	457	457	-	-	-	3.0	2.0	-	4.9	38.9	8.5	2.0	10.5
4/2	287	287	-	-	-	1.6	0.4	-	2.1	26.2	4.7	0.4	5.1
5/1	1071	1071	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	563	563	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	805	805	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2+8/1	584	584	-	-	-	1.6	0.4	-	2.0 (1.1+0.9)	12.4 (12.4:12.4)	2.7	0.4	3.2
9/1	28	28	-	-	-	0.1	0.0	-	0.1	17.2	0.3	0.0	0.3
9/2	372	372	-	-	-	1.7	2.7	-	4.4	42.8	4.6	2.7	7.4
10/1	614	614	-	-	-	2.4	0.8	-	3.2	18.7	10.6	0.8	11.4
10/2	66	66	6	60	1	0.1	0.1	0.3	0.5	29.7	0.7	0.1	0.8
C1 PRC for Signalled Lanes (%): -6.2 PRC Over All Lanes (%): -6.2 Total Delay for Signalled Lanes (pcuHr): 41.73 Total Delay Over All Lanes(pcuHr): 41.73 Cycle Time (s): 74													

APPENDIX 11

JUNCTIONS Output – Croft Lane/Hollins Lane/Hollins Brow

Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.5.1.7462

© Copyright TRL Limited, 2019

For sales and distribution information, program advice and maintenance, contact TRL:

+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk

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: Hollins Brow - Hollins Lane - Croft Lane - Mini Rdbt.j9

Path: A:\Crofts\Projects\2561 JD Campus, JD Sports, Pilsworth\Planning Application

Report generation date: 17/05/2022 10:29:53

- »2022 Surveyed Flows, AM
- »2022 Surveyed Flows, PM
- »2027 Growthed Flows, AM
- »2027 Growthed Flows, PM
- »2027 With Development, AM
- »2027 With Development, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2022 Surveyed Flows								
Arm 1	6.3	31.07	0.88	D	75.7	277.65	1.14	F
Arm 2	16.2	127.62	1.01	F	2.6	33.09	0.74	D
Arm 3	4.8	24.88	0.84	C	1.2	8.00	0.54	A
2027 Growthed Flows								
Arm 1	8.1	38.83	0.91	E	94.2	363.92	1.18	F
Arm 2	24.2	176.40	1.07	F	3.0	36.25	0.76	E
Arm 3	5.7	29.03	0.87	D	1.2	8.40	0.56	A
2027 With Development								
Arm 1	8.5	40.69	0.91	E	109.9	436.46	1.21	F
Arm 2	26.7	191.76	1.08	F	3.1	38.06	0.77	E
Arm 3	7.6	37.10	0.90	E	1.3	8.52	0.56	A

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

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

File summary

File Description

Title	Hollins Brow - Hollins Lane - Croft Lane
Location	Pilsworth
Site number	
Date	17/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	2561
Enumerator	EDD
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

Mini-roundabout model	Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
JUNCTIONS 9			0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	08:00	09:30	15
D2	2022 Surveyed Flows	PM	ONE HOUR	17:00	18:30	15
D3	2027 Growthed Flows	AM	ONE HOUR	08:00	09:30	15
D4	2027 Growthed Flows	PM	ONE HOUR	17:00	18:30	15
D5	2027 With Development	AM	ONE HOUR	08:00	09:30	15
D6	2027 With Development	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022 Surveyed Flows, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	51.39	F

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Arms

Arms

Arm	Name	Description
1	Croft Lane	
2	Hollins Lane	
3	Hollins Brow	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1	4.00	4.00	4.60	1.3	13.00	8.00	0.0	
2	3.80	3.80	3.80	0.0	14.50	9.00	0.0	
3	4.00	4.00	4.00	0.0	20.00	18.00	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.638	948
2	0.622	751
3	0.740	1126

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 Surveyed Flows	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	705	100.000
2		✓	418	100.000
3		✓	662	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	1	2	3	
From	1	0	269	436
	2	331	0	87
	3	572	90	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	1	2	3	
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.88	31.07	6.3	D
2	1.01	127.62	16.2	F
3	0.84	24.88	4.8	C

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	531	67	905	0.586	525	1.4	9.345	A
2	315	325	549	0.573	310	1.3	14.715	B
3	498	245	944	0.528	494	1.1	7.921	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	634	81	897	0.707	630	2.3	13.315	B
2	376	390	509	0.738	371	2.6	25.089	D
3	595	294	908	0.655	592	1.8	11.313	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	776	98	888	0.876	762	5.7	28.588	D
2	460	472	458	1.004	427	10.9	76.354	F
3	729	338	876	0.832	719	4.4	21.670	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	776	99	885	0.877	774	6.3	31.070	D
2	460	479	454	1.014	439	16.2	127.622	F
3	729	348	868	0.839	727	4.8	24.882	C

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	634	82	896	0.708	649	2.5	15.388	C
2	376	401	502	0.749	427	3.5	62.353	F
3	595	338	876	0.680	605	2.2	13.796	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	531	68	904	0.587	535	1.5	9.859	A
2	315	331	546	0.577	323	1.4	16.709	C
3	498	256	936	0.532	503	1.2	8.378	A

2022 Surveyed Flows, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	161.52	F

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022 Surveyed Flows	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	931	100.000
2		✓	274	100.000
3		✓	475	100.000

Origin-Destination Data

Demand (PCU/hr)

	To		
	1	2	3
From	1	0	356
	2	188	0
	3	400	75

Vehicle Mix

Heavy Vehicle Percentages

	To		
	1	2	3
From	1	0	0
	2	0	0
	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	1.14	277.65	75.7	F
2	0.74	33.09	2.6	D
3	0.54	8.00	1.2	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	701	56	912	0.768	689	3.1	15.353	C
2	206	425	487	0.424	203	0.7	12.576	B
3	358	140	1022	0.350	355	0.5	5.381	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	837	67	905	0.925	817	8.2	34.386	D
2	246	504	438	0.563	244	1.2	18.400	C
3	427	168	1002	0.428	426	0.7	6.247	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1025	82	896	1.145	886	42.9	117.431	F
2	302	547	411	0.734	297	2.5	30.221	D
3	523	204	975	0.536	521	1.1	7.908	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1025	83	895	1.145	894	75.7	248.408	F
2	302	552	408	0.739	301	2.6	33.088	D
3	523	207	973	0.538	523	1.2	7.999	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	837	68	905	0.925	893	61.7	277.653	F
2	246	552	408	0.603	250	1.6	23.349	C
3	427	172	998	0.428	429	0.8	6.334	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	701	57	912	0.769	697	12.6	154.845	F
2	206	554	407	0.507	208	1.1	18.345	C
3	358	143	1020	0.351	358	0.5	5.452	A

2027 Growthed Flows, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	87.45	F

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2027 Growthed Flows	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	728	100.000
2		✓	432	100.000
3		✓	683	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1	2	3
From	1	0	278	450
	2	342	0	90
	3	590	93	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		1	2	3
From	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.91	38.83	8.1	E
2	1.07	176.40	24.2	F
3	0.87	29.03	5.7	D

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	548	69	904	0.606	542	1.5	9.799	A
2	325	335	543	0.599	320	1.4	15.737	C
3	514	253	938	0.548	509	1.2	8.303	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	654	83	895	0.731	650	2.6	14.441	B
2	388	402	501	0.774	382	3.0	28.658	D
3	614	302	902	0.681	611	2.0	12.210	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	802	101	884	0.907	783	7.1	31.278	D
2	476	484	450	1.056	429	14.7	95.409	F
3	752	340	874	0.880	740	5.2	24.675	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	802	102	883	0.908	798	8.1	38.832	E
2	476	493	445	1.069	438	24.2	176.403	F
3	752	347	869	0.865	750	5.7	29.029	D

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	654	85	894	0.732	675	2.9	17.824	C
2	388	417	492	0.790	464	5.2	117.601	F
3	614	368	854	0.719	626	2.7	16.565	C

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	548	71	903	0.607	553	1.6	10.449	B
2	325	342	539	0.604	340	1.6	19.255	C
3	514	269	927	0.555	520	1.3	8.972	A

2027 Growthed Flows, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	209.98	F

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2027 Growthed Flows	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	981	100.000
2		✓	283	100.000
3		✓	490	100.000

Origin-Destination Data

Demand (PCU/hr)

	To		
	1	2	3
From	1	0	367
	2	194	0
	3	413	77

Vehicle Mix

Heavy Vehicle Percentages

	To		
	1	2	3
From	1	0	0
	2	0	0
	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	1.18	363.92	94.2	F
2	0.78	36.25	3.0	E
3	0.56	8.40	1.2	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	723	58	911	0.794	709	3.5	16.832	C
2	213	439	479	0.445	210	0.8	13.248	B
3	369	144	1019	0.362	367	0.6	5.499	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	884	69	904	0.956	836	10.5	41.364	E
2	254	517	430	0.592	252	1.4	19.946	C
3	440	173	998	0.441	440	0.8	6.439	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1058	84	894	1.183	888	53.0	141.586	F
2	312	549	410	0.760	306	2.8	32.908	D
3	540	210	970	0.556	538	1.2	8.285	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1058	85	894	1.184	893	94.2	305.079	F
2	312	552	408	0.763	311	3.0	36.251	E
3	540	213	968	0.557	539	1.2	8.398	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	884	69	904	0.956	894	66.7	363.921	F
2	254	553	408	0.624	259	1.8	24.979	C
3	440	178	994	0.443	442	0.8	6.543	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	723	58	911	0.794	901	42.4	280.619	F
2	213	557	405	0.526	215	1.2	19.208	C
3	369	148	1016	0.363	370	0.6	5.578	A

2027 With Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	74.28	F

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027 With Development	AM	ONE HOUR	08:00	09:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	733	100.000
2		✓	435	100.000
3		✓	712	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1	2	3
	1	0	278	455
	2	345	0	90
	3	619	93	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		1	2	3
	1	0	0	0
	2	0	0	0
	3	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.91	40.69	8.5	E
2	1.08	191.76	26.7	F
3	0.90	37.10	7.6	E

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	552	69	904	0.611	546	1.5	9.893	A
2	327	339	541	0.606	322	1.5	16.034	C
3	536	255	937	0.572	531	1.3	8.758	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	659	83	895	0.736	655	2.6	14.666	B
2	391	406	499	0.784	384	3.2	29.766	D
3	640	305	900	0.711	636	2.3	13.414	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	807	100	884	0.913	788	7.4	32.299	D
2	479	489	447	1.071	428	15.9	101.343	F
3	784	340	874	0.897	767	6.6	29.671	D

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	807	102	883	0.914	803	8.5	40.687	E
2	479	498	442	1.085	436	26.7	191.762	F
3	784	346	870	0.901	780	7.6	37.100	E

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	659	86	893	0.736	681	3.0	18.474	C
2	391	423	489	0.801	472	6.5	137.809	F
3	640	374	849	0.754	657	3.3	20.185	C

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	552	71	903	0.611	557	1.6	10.582	B
2	327	346	536	0.611	347	1.6	20.732	C
3	536	275	922	0.581	543	1.4	9.688	A

2027 With Development, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	252.34	F

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027 With Development	PM	ONE HOUR	17:00	18:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	988	100.000
2		✓	284	100.000
3		✓	495	100.000

Origin-Destination Data

Demand (PCU/hr)

	To		
	1	2	3
From	1	0	370
	2	195	0
	3	418	77

Vehicle Mix

Heavy Vehicle Percentages

	To		
	1	2	3
From	1	0	0
	2	0	0
	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	1.21	438.46	109.9	F
2	0.77	38.06	3.1	E
3	0.56	8.52	1.3	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	742	58	911	0.815	727	3.9	18.197	C
2	214	454	469	0.456	211	0.8	13.757	B
3	373	145	1019	0.366	370	0.6	5.535	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	886	69	904	0.981	850	12.9	48.149	E
2	255	531	421	0.606	253	1.5	21.060	C
3	445	174	997	0.446	444	0.8	6.498	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1086	84	894	1.214	890	61.8	163.564	F
2	313	556	406	0.771	307	2.9	34.488	D
3	545	211	970	0.562	543	1.3	8.403	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1086	85	894	1.214	893	109.9	353.609	F
2	313	556	404	0.773	312	3.1	38.058	E
3	545	214	967	0.563	545	1.3	8.521	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	886	70	904	0.981	896	107.6	438.456	F
2	255	559	403	0.633	260	1.8	25.996	D
3	445	179	993	0.448	447	0.8	6.611	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	742	58	911	0.815	903	67.5	350.961	F
2	214	564	401	0.534	216	1.2	19.790	C
3	373	149	1016	0.367	374	0.6	5.614	A

APPENDIX 12

LINSIG Output – A56 Manchester Road/Hollins Brow

User and Project Details

Project:	JD Campus, Pilsworth
Title:	A56 Manchester Road – Hollins Brow
Location:	Pilsworth
Additional detail:	Based on the model submitted in support of Planning Application 60998
File name:	A56 Manchester Road - Hollins Brow.lsg3x
Author:	
Company:	
Address:	

Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Traffic		7	7
D	Ind. Arrow	A	4	4

Phase Intergreens Matrix

	Starting Phase				
Terminating Phase		A	B	C	D
	A		-	6	-
	B	-		6	5
	C	7	7		7
	D	-	4	6	

Phase Delays

Term. Stage	Start Stage	Phase	Type	Value	Cont value
There are no Phase Delays defined					

Prohibited Stage Change

	To Stage		
From Stage	1	2	3
	1	4	6
	2	5	6
	3	7	7

Phases in Stage

Stage No.	Phases in Stage
1	A D
2	A B
3	C

Give-Way Lane Input Data

Junction: Unnamed Junction											
Lane	Movement	Max Flow when Giving Way (PCU/Hr)	Min Flow when Giving Way (PCU/Hr)	Opposing Lane	Opp. Lane Coeff.	Opp. Mvmnts.	Right Turn Storage (PCU)	Non-Blocking Storage (PCU)	RTF	Right Turn Move up (s)	Max Turns in Intergreen (PCU)
1/2 (Manchester Road South)	4/1 (Right)	1439	0	3/1	1.09	All	3.00	-	0.50	3	3.00
				3/2	1.09	All					

Lane Input Data

Junction: Unnamed Junction												
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (Manchester Road South)	U	A	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 6 Ahead	Inf
1/2 (Manchester Road South)	O	A D	2	3	20.0	Geom	-	3.00	0.00	N	Arm 4 Right	18.00
2/1 (Hollins Brow)	U	C	2	3	60.0	Geom	-	3.50	0.00	Y	Arm 5 Left	12.00
											Arm 6 Right	18.00
3/1 (Manchester Road North)	U	B	2	3	20.0	Geom	-	3.00	0.00	Y	Arm 4 Left	10.00
	U	B	2	3	60.0	Geom	-	3.00	0.00	N	Arm 5 Ahead	Inf
3/2 (Manchester Road North)	U	B	2	3	60.0	Geom	-	3.00	0.00	N	Arm 5 Ahead	Inf
4/1	U		2	3	60.0	Inf	-	-	-	-	-	-
5/1	U		2	3	60.0	Inf	-	-	-	-	-	-
5/2	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1	U		2	3	60.0	Inf	-	-	-	-	-	-

Lane Saturation Flows

Scenario 1: '2022 Surveyed Flows - AM Peak' (FG1: '2022 Surveyed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction									
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)	
1/1 (Manchester Road South)	3.00	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1915	1915	
1/2 (Manchester Road South)	3.00	0.00	N	Arm 4 Right	18.00	100.0 %	1897	1897	
2/1 (Hollins Brow)	3.50	0.00	Y	Arm 5 Left	12.00	51.8 %	1778	1778	
				Arm 6 Right	18.00	48.2 %			
3/1 (Manchester Road North)	3.00	0.00	Y	Arm 4 Left	10.00	68.7 %	1736	1736	
				Arm 5 Ahead	Inf	31.3 %			
3/2 (Manchester Road North)	3.00	0.00	N	Arm 5 Ahead	Inf	100.0 %	2055	2055	
4/1				Infinite Saturation Flow			Inf	Inf	
5/1				Infinite Saturation Flow			Inf	Inf	
5/2				Infinite Saturation Flow			Inf	Inf	
6/1				Infinite Saturation Flow			Inf	Inf	

Scenario 2: '2022 Surveyed Flows - PM Peak' (FG2: '2022 Surveyed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Manchester Road South)	3.00	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1915	1915
1/2 (Manchester Road South)	3.00	0.00	N	Arm 4 Right	18.00	100.0 %	1897	1897
2/1 (Hollins Brow)	3.50	0.00	Y	Arm 5 Left Arm 6 Right	12.00 18.00	40.4 % 59.6 %	1786	1786
3/1 (Manchester Road North)	3.00	0.00	Y	Arm 4 Left Arm 5 Ahead	10.00 Inf	59.5 % 40.5 %	1758	1758
3/2 (Manchester Road North)	3.00	0.00	N	Arm 5 Ahead	Inf	100.0 %	2055	2055
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
5/2	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Scenario 3: '2027 Growthed Flows - AM Peak' (FG3: '2027 Growthed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Manchester Road South)	3.00	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1915	1915
1/2 (Manchester Road South)	3.00	0.00	N	Arm 4 Right	18.00	100.0 %	1897	1897
2/1 (Hollins Brow)	3.50	0.00	Y	Arm 5 Left Arm 6 Right	12.00 18.00	51.8 % 48.2 %	1778	1778
3/1 (Manchester Road North)	3.00	0.00	Y	Arm 4 Left Arm 5 Ahead	10.00 Inf	68.7 % 31.3 %	1736	1736
3/2 (Manchester Road North)	3.00	0.00	N	Arm 5 Ahead	Inf	100.0 %	2055	2055
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
5/2	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Scenario 4: '2027 Growthed Flows - PM Peak' (FG4: '2027 Growthed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Manchester Road South)	3.00	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1915	1915
1/2 (Manchester Road South)	3.00	0.00	N	Arm 4 Right	18.00	100.0 %	1897	1897
2/1 (Hollins Brow)	3.50	0.00	Y	Arm 5 Left Arm 6 Right	12.00 18.00	40.4 % 59.6 %	1786	1786
3/1 (Manchester Road North)	3.00	0.00	Y	Arm 4 Left Arm 5 Ahead	10.00 Inf	59.5 % 40.5 %	1758	1758
3/2 (Manchester Road North)	3.00	0.00	N	Arm 5 Ahead	Inf	100.0 %	2055	2055
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
5/2	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Scenario 5: '2027 With Development Flows - AM Peak' (FG5: '2027 With Development Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Manchester Road South)	3.00	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1915	1915
1/2 (Manchester Road South)	3.00	0.00	N	Arm 4 Right	18.00	100.0 %	1897	1897
2/1 (Hollins Brow)	3.50	0.00	Y	Arm 5 Left Arm 6 Right	12.00 18.00	51.7 % 48.3 %	1778	1778
3/1 (Manchester Road North)	3.00	0.00	Y	Arm 4 Left Arm 5 Ahead	10.00 Inf	70.6 % 29.4 %	1732	1732
3/2 (Manchester Road North)	3.00	0.00	N	Arm 5 Ahead	Inf	100.0 %	2055	2055
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
5/2	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Scenario 6: '2027 With Development Flows - PM Peak' (FG6: '2027 With Development Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Manchester Road South)	3.00	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1915	1915
1/2 (Manchester Road South)	3.00	0.00	N	Arm 4 Right	18.00	100.0 %	1897	1897
2/1 (Hollins Brow)	3.50	0.00	Y	Arm 5 Left Arm 6 Right	12.00 18.00	40.5 % 59.5 %	1786	1786
3/1 (Manchester Road North)	3.00	0.00	Y	Arm 4 Left Arm 5 Ahead	10.00 Inf	60.0 % 40.0 %	1757	1757
3/2 (Manchester Road North)	3.00	0.00	N	Arm 5 Ahead	Inf	100.0 %	2055	2055
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
5/2	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2022 Surveyed Flows - AM Peak'	08:00	09:00	01:00	
2: '2022 Surveyed Flows - PM Peak'	17:00	18:00	01:00	
3: '2027 Growthed Flows - AM Peak'	08:00	09:00	01:00	
4: '2027 Growthed Flows - PM Peak'	17:00	18:00	01:00	
5: '2027 With Development Flows - AM Peak'	08:00	09:00	01:00	
6: '2027 With Development Flows - PM Peak'	17:00	18:00	01:00	

Traffic Flows, Desired

FG1: '2022 Surveyed Flows - AM Peak'

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	865	397	1262
	B	763	0	279	1042
	C	254	273	0	527
	Tot.	1017	1138	676	2831

FG2: '2022 Surveyed Flows - PM Peak'

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	749	283	1032
	B	798	0	190	988
	C	384	260	0	644
	Tot.	1182	1009	473	2664

FG3: '2027 Growthed Flows - AM Peak'

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	893	410	1303
	B	788	0	288	1076
	C	262	282	0	544
	Tot.	1050	1175	698	2923

FG4: '2027 Growthed Flows - PM Peak'

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	773	292	1065
	B	824	0	196	1020
	C	396	268	0	664
	Tot.	1220	1041	488	2749

FG5: '2027 With Development Flows - AM Peak'

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	893	426	1319
	B	788	0	300	1088
	C	265	284	0	549
	Tot.	1053	1177	726	2956

FG6: '2027 With Development Flows - PM Peak'

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	773	295	1068
	B	824	0	199	1023
	C	409	278	0	687
	Tot.	1233	1051	494	2778

Stage Timings

Scenario 1: '2022 Surveyed Flows - AM Peak' (FG1: '2022 Surveyed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3
Duration	11	46	36
Change Point	0	18	68

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	89.2%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	89.2%
1/1+1/2	Manchester Road South Right Ahead	U+O	N/A	N/A	A	D	1	61	11	1042	1915:1897	960+313	79.5 : 89.2%
2/1	Hollins Brow Left Right	U	N/A	N/A	C		1	36	-	527	1778	598	88.1%
3/2+3/1	Manchester Road North Left Ahead	U	N/A	N/A	B		1	46	-	1262	2055:1736	767+648	89.2 : 89.2%
4/1		U	N/A	N/A	-		-	-	-	676	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	454	Inf	Inf	0.0%
5/2		U	N/A	N/A	-		-	-	-	684	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	1017	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	9	173	97	19.5	9.5	0.9	29.9	-	-	-	-
Unnamed Junction	-	-	9	173	97	19.5	9.5	0.9	29.9	-	-	-	-
1/1+1/2	1042	1042	9	173	97	5.0	2.2	0.9	8.1 (5.3+2.8)	28.0 (25.1:36.0)	16.7	2.2	19.0
2/1	527	527	-	-	-	5.0	3.4	-	8.4	57.6	15.1	3.4	18.5
3/2+3/1	1262	1262	-	-	-	9.5	3.9	-	13.4 (7.3+6.1)	38.3 (38.3:38.3)	17.9	3.9	21.8
4/1	676	676	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	454	454	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/2	684	684	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	1017	1017	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

LinSig V1 style report

C1	PRC for Signalled Lanes (%):	0.8	Total Delay for Signalled Lanes (pcuHr):	29.95	Cycle Time (s):	110
	PRC Over All Lanes (%):	0.8	Total Delay Over All Lanes(pcuHr):	29.95		

Stage Timings

Scenario 2: '2022 Surveyed Flows - PM Peak' (FG2: '2022 Surveyed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3
Duration	4	46	43
Change Point	0	11	61

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	90.1%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	90.1%
1/1+1/2	Manchester Road South Right Ahead	U+O	N/A	N/A	A	D	1	54	4	988	1915:1897	893+213	89.3 : 89.3%
2/1	Hollins Brow Left Right	U	N/A	N/A	C		1	43	-	644	1786	714	90.1%
3/2+3/1	Manchester Road North Left Ahead	U	N/A	N/A	B		1	46	-	1032	2055:1758	767+656	72.5 : 72.5%
4/1		U	N/A	N/A	-		-	-	-	473	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	453	Inf	Inf	0.0%
5/2		U	N/A	N/A	-		-	-	-	556	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	1182	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	66	86	38	18.7	9.3	0.6	28.6	-	-	-	-
Unnamed Junction	-	-	66	86	38	18.7	9.3	0.6	28.6	-	-	-	-
1/1+1/2	988	988	66	86	38	6.0	3.9	0.6	10.6 (8.4+2.2)	38.6 (37.9:41.2)	21.4	3.9	25.3
2/1	644	644	-	-	-	5.5	4.1	-	9.6	53.9	18.4	4.1	22.5
3/2+3/1	1032	1032	-	-	-	7.1	1.3	-	8.4 (4.5+3.9)	29.3 (29.3:29.3)	13.3	1.3	14.6
4/1	473	473	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	453	453	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/2	556	556	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	1182	1182	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

LinSig V1 style report

C1	PRC for Signalled Lanes (%):	-0.2	Total Delay for Signalled Lanes (pcuHr):	28.62	Cycle Time (s):	110
	PRC Over All Lanes (%):	-0.2	Total Delay Over All Lanes(pcuHr):	28.62		

Stage Timings

Scenario 3: '2027 Growthed Flows - AM Peak' (FG3: '2027 Growthed Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3
Duration	12	45	36
Change Point	0	19	68

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	93.2%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	93.2%
1/1+1/2	Manchester Road South Right Ahead	U+O	N/A	N/A	A	D	1	61	12	1076	1915:1897	960+324	82.1 : 88.9%
2/1	Hollins Brow Left Right	U	N/A	N/A	C		1	36	-	544	1778	598	91.0%
3/2+3/1	Manchester Road North Left Ahead	U	N/A	N/A	B		1	45	-	1303	2055:1736	757+640	93.2 : 93.2%
4/1		U	N/A	N/A	-		-	-	-	698	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	469	Inf	Inf	0.0%
5/2		U	N/A	N/A	-		-	-	-	706	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	1050	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	2	188	98	20.9	13.0	0.9	34.8	-	-	-	-
Unnamed Junction	-	-	2	188	98	20.9	13.0	0.9	34.8	-	-	-	-
1/1+1/2	1076	1076	2	188	98	5.4	2.5	0.9	8.8 (5.7+3.0)	29.4 (26.3:38.0)	17.7	2.5	20.3
2/1	544	544	-	-	-	5.3	4.3	-	9.6	63.6	15.9	4.3	20.2
3/2+3/1	1303	1303	-	-	-	10.3	6.1	-	16.4 (8.9+7.5)	45.2 (45.2:45.2)	19.0	6.1	25.1
4/1	698	698	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	469	469	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/2	706	706	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	1050	1050	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

LinSig V1 style report

C1	PRC for Signalled Lanes (%):	-3.6	Total Delay for Signalled Lanes (pcuHr):	34.77	Cycle Time (s):	110
	PRC Over All Lanes (%):	-3.6	Total Delay Over All Lanes(pcuHr):	34.77		

Stage Timings

Scenario 4: '2027 Growthed Flows - PM Peak' (FG4: '2027 Growthed Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3
Duration	4	46	43
Change Point	0	11	61

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	92.9%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	92.9%
1/1+1/2	Manchester Road South Right Ahead	U+O	N/A	N/A	A	D	1	54	4	1020	1915:1897	893+212	92.3 : 92.3%
2/1	Hollins Brow Left Right	U	N/A	N/A	C		1	43	-	664	1786	714	92.9%
3/2+3/1	Manchester Road North Left Ahead	U	N/A	N/A	B		1	46	-	1065	2055:1758	767+656	74.9 : 74.9%
4/1		U	N/A	N/A	-		-	-	-	488	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	467	Inf	Inf	0.0%
5/2		U	N/A	N/A	-		-	-	-	574	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	1220	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	56	86	54	19.6	12.2	0.7	32.5	-	-	-	-
Unnamed Junction	-	-	56	86	54	19.6	12.2	0.7	32.5	-	-	-	-
1/1+1/2	1020	1020	56	86	54	6.4	5.3	0.7	12.4 (9.8+2.6)	43.8 (42.9:47.4)	23.4	5.3	28.7
2/1	664	664	-	-	-	5.8	5.4	-	11.2	60.9	19.4	5.4	24.8
3/2+3/1	1065	1065	-	-	-	7.4	1.5	-	8.9 (4.8+4.1)	30.0 (30.0:30.0)	13.9	1.5	15.3
4/1	488	488	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	467	467	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/2	574	574	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	1220	1220	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

LinSig V1 style report

C1	PRC for Signalled Lanes (%):	-3.3	Total Delay for Signalled Lanes (pcuHr):	32.52	Cycle Time (s):	110
	PRC Over All Lanes (%):	-3.3	Total Delay Over All Lanes(pcuHr):	32.52		

Stage Timings

Scenario 5: '2027 With Development Flows - AM Peak' (FG5: '2027 With Development Flows - AM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3
Duration	12	46	35
Change Point	0	19	69

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	94.3%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	94.3%
1/1+1/2	Manchester Road South Right Ahead	U+O	N/A	N/A	A	D	1	62	12	1088	1915:1897	969+322	81.3 : 93.0%
2/1	Hollins Brow Left Right	U	N/A	N/A	C		1	35	-	549	1778	582	94.3%
3/2+3/1	Manchester Road North Left Ahead	U	N/A	N/A	B		1	46	-	1319	2055:1732	767+646	93.4 : 93.4%
4/1		U	N/A	N/A	-		-	-	-	726	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	461	Inf	Inf	0.0%
5/2		U	N/A	N/A	-		-	-	-	716	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	1053	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	0	202	98	21.0	14.9	0.9	36.9	-	-	-	-
Unnamed Junction	-	-	0	202	98	21.0	14.9	0.9	36.9	-	-	-	-
1/1+1/2	1088	1088	0	202	98	5.4	2.6	0.9	8.9 (5.6+3.3)	29.6 (25.7:39.8)	17.3	2.6	19.9
2/1	549	549	-	-	-	5.5	6.1	-	11.6	75.9	16.3	6.1	22.4
3/2+3/1	1319	1319	-	-	-	10.1	6.2	-	16.4 (8.9+7.5)	44.7 (44.7:44.7)	19.1	6.2	25.3
4/1	726	726	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	461	461	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/2	716	716	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	1053	1053	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

LinSig V1 style report

C1	PRC for Signalled Lanes (%):	-4.8	Total Delay for Signalled Lanes (pcuHr):	36.90	Cycle Time (s):	110
	PRC Over All Lanes (%):	-4.8	Total Delay Over All Lanes(pcuHr):	36.90		

Stage Timings

Scenario 6: '2027 With Development Flows - PM Peak' (FG6: '2027 With Development Flows - PM Peak', Plan 1: 'Network Control Plan 1')

Stage	1	2	3
Duration	4	45	44
Change Point	0	11	60

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	94.0%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	94.0%
1/1+1/2	Manchester Road South Right Ahead	U+O	N/A	N/A	A	D	1	53	4	1023	1915:1897	878+212	93.8 : 93.8%
2/1	Hollins Brow Left Right	U	N/A	N/A	C		1	44	-	687	1786	731	94.0%
3/2+3/1	Manchester Road North Left Ahead	U	N/A	N/A	B		1	45	-	1068	2055:1757	757+647	76.1 : 76.1%
4/1		U	N/A	N/A	-		-	-	-	494	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	475	Inf	Inf	0.0%
5/2		U	N/A	N/A	-		-	-	-	576	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	1233	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	52	86	60	20.3	14.1	0.7	35.1	-	-	-	-
Unnamed Junction	-	-	52	86	60	20.3	14.1	0.7	35.1	-	-	-	-
1/1+1/2	1023	1023	52	86	60	6.7	6.4	0.7	13.8 (10.9+2.9)	48.5 (47.5:52.3)	24.0	6.4	30.3
2/1	687	687	-	-	-	6.0	6.1	-	12.1	63.4	20.0	6.1	26.2
3/2+3/1	1068	1068	-	-	-	7.7	1.6	-	9.2 (5.0+4.3)	31.2 (31.2:31.2)	14.1	1.6	15.7
4/1	494	494	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	475	475	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/2	576	576	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	1233	1233	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

LinSig V1 style report

C1	PRC for Signalled Lanes (%):	-4.5	Total Delay for Signalled Lanes (pcuHr):	35.12	Cycle Time (s):	110
	PRC Over All Lanes (%):	-4.5	Total Delay Over All Lanes(pcuHr):	35.12		



Croft Transport Planning & Design

340 Deansgate

Manchester

M3 4LY

0161 837 7380

eddisons.com

Offices across the UK

