



Edwards & Edwards Consultancy Ltd

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Proposed Residential Development,

**Land off Keats Lane,
Earl Shilton**

Applicant Mr Batson

Accompanying Highways Report

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1 Background

- 1.1 Edwards and Edwards Consultancy Ltd. is a 'Highway and Transportation Consultancy' specialising in giving advice to clients on highway development control matters. Our dedicated team have over 200 years' combined experience dealing with development control matters in both the public and private sectors. We have been engaged by Mr Batson to provide a Highway Report to support his current planning application.
- 1.2 Mr Batson is seeking outline planning permission for a residential development on land off Keats Lane, Earl Shilton. Although the application is seeking outline planning permission, the details in relation to the proposed vehicular access arrangement serving the site is being submitted for full approval at this stage.
- 1.3 In 2013 a planning application was submitted to Hinckley and Bosworth Borough Council (LPA ref: 13/00460/FUL) for the demolition of an existing dwelling and the erection of a dormer bungalow. The proposed dormer bungalow was to have been served from the existing vehicular access that served the site, this access was located towards the eastern end of the site frontage. The following image taken from Google street view dated July 2009, shows the site access alongside the former dwelling on the site that has long since been demolished:-



- 1.4 In 2019 a further planning application was submitted to HBBC (LPA ref: 19/00403/FUL) for the construction of a new dormer bungalow with a detached single garage. At the time of that application, the old dwelling had been demolished. Looking at images on Google street view, the old dwelling had been demolished by 2016. It is not clear whether the demolition of the old cottage could be considered to be a substantial start on the approved development and whether that planning permission could be considered to be extant.
- 1.5 This current proposal seeks outline planning approval for 10 bungalows on the site, served from a new shared private access off Keats Lane. The proposed indicative site layout is attached as **Appendix A** for information.
- 1.6 This highway report has been commissioned to consider the likely highway impacts of the proposed development and seeks to demonstrate that the proposal will not lead to any unacceptable harm to highway safety nor result in any severe residual cumulative impact on the road network.

2 SITE CONSIDERATIONS

- 2.1 The site is situated on the northern side of Keats Lane, Earl Shilton. Keats Lane is an unclassified public highway that runs from its junction with Hill Top to the east of the site for approximately 560 metres in a westerly direction, before terminating.
- 2.2 The section of Keats Lane fronting the site has a footway 2.1 metres wide and a 1.2 metres wide on its southern side, a 5.1 metres wide carriageway and has a footway 1.5 metres wide on its northern side, the application site side. Keats Lane is subject to a 30mph speed restriction and has street lighting. The following photograph shows the section of road fronting the site, with the site on the right hand side: -



- 2.3 As shown on the Google streetview image in Chapter 1 of this report, the site has an existing vehicular access at its eastern end of the site frontage, however in recent years since the demolition of the dwelling, the site has become overgrown and the vehicular access and off-street parking space is no longer apparent. The following photograph shows the site access as it is at present:-



- 2.4 Although it is no longer possible to make an accurate assessment of the visibility splays that would have been available out of the existing site access, it is clear from the image in Chapter 1, that the available visibility splays, including pedestrian visibility splays would have been very restricted.
- 2.5 Although Keats Lane is subject to a 30mph, the applicant commissioned a speed survey to be carried out at on Keats Lane, in order to obtain the actual speed of traffic passing the site. Although it was intended that the survey would obtain results over a full 7-day period starting from 14th March, the equipment was damaged whilst out of site, and only 5½ days of data was obtained. Nevertheless, the results obtained over the duration of the survey are considered sufficient for the purposes of calculating the speed of traffic.
- 2.6 The speed survey revealed that the measured 85th percentile speed of traffic passing the site was 22.4mph for vehicles heading in a westerly direction and also 22.4mph for vehicles travelling in an easterly direction.
- 2.7 The survey also revealed that the average combined weekday flow of traffic in the normal AM peak hour of 8am to 9am was 69 vehicles and in the normal PM peak

hour of 5pm to 6pm, there were 107 vehicles passing the site. Even in the busiest peak hour, this works out at an average of less than 1 vehicle every 30 seconds passing the site and an average of less than 1 vehicle a minute from either direction. The survey also shows that the average weekday 12 hour flow (7am to 7pm) was 894 vehicles passing the site.

- 2.8 It can therefore be seen from the results of the speed survey, that not only is the speed of traffic relatively low, but Keats Lane is a relatively lightly trafficked road.
- 2.9 The site is located a relatively short walking distance from the centre of Earl Shilton, which has a range of facilities including shops, a post office, doctors surgery, takeaways, public houses, schools, library, restaurants as well as employment opportunities.
- 2.10 The nearest bus stops to the site are located approximately 250 metres away on High Street. These stops form part of the routes of bus services 1, 148 and 158 Sapphire which provide regular bus services throughout the day, between Earl Shilton, Barwell, Hinckley, Leicester, Coventry, Nuneaton and Bedworth. The Bus Network Map for Leicestershire, that shows the routes of the above services and also the frequency of each service has been attached as **Appendix B** for information.
- 2.11 According to the free cycle maps issued by Leicestershire County Council, there are a number of recommended cycle routes in and around Earl Shilton that would provide safe cycling routes from the site to a number of locations, including Hinckley and Leicester. The free cycle map covering Hinckley and Bosworth Area is attached as **Appendix C** for information.
- 2.12 It can therefore be seen that the site is in a sustainable location, where residents would have a good and viable choice of methods of travel for their journeys and would not be heavily reliant on the use of a car for their journeys.
- 2.13 An investigation into the accident record for Keats Lane in the vicinity of the site using CrashMap, shows that there have been one recorded personal injury road traffic accidents within the vicinity of the site within the latest 5 years of available data.
- 2.14 The accident occurred to the west of the site and involved a single vehicle. The fact that there has only been 1 accident on Keats Lane in the latest 5 years of data and

that it involved a single vehicle, would suggest that there is no particular pattern of accidents, that would be exacerbated by the proposed development.

- 2.15 CrashMap uses data collected by the police about road traffic accidents on British roads, and the data is approved by the National Statistics Authority and reported on by the Department of Transport each year. Their data currently includes accidents up to the end of 2021.

3 CONSIDERATION OF DEVELOPMENT

- 3.1 The planning application seeks outline planning approval for 10 bungalows on the site off Keats Lane in Earl Shilton. It is proposed to serve the site from a new private shared access from Keats Lane. Whilst the planning application is seeking outline planning approval, the details in relation to the proposed site access are being submitted for full approval.

Proposed access arrangement

- 3.2 The proposed access serving the site from Keats Lane, has been designed in accordance with the requirements contained in Figure DG17 '*Unadopted shared drive serving up to 25 dwellings*' of the Leicestershire Highway Design Guide (LHDG).
- 3.3 The proposed private shared drive will be 5.0 metres wide and shall have minimum clear margin of 0.5 metres on its western side, but will have a 2.0 metres wide footway on its eastern side. It will be served by a simple dropped crossing in accordance with Local Highway Authority standards. A drawing showing the proposed site access plan has been attached as **Appendix D** for information.
- 3.4 The access will be surfaced in tarmacadam, concrete paving or similar hard bound material and will have a maximum gradient of 1 in 12 for a minimum distance of 5 metres behind the highway boundary.
- 3.5 It is proposed to provide 2 metres by 2 metres pedestrian visibility splays on each side of the access on to the back of the footway on Keats Lane, which exceeds the minimum standard contained in the LHDG.
- 3.6 The proposed access will be able to provide minimum visibility splays of 2.4 metres by over 100 metres looking to the right (westwards) and 29 metres looking to the left (eastwards) measured to a point 1.0 metres off-set from the nearside edge of kerb. While the presence of 'Heras' fencing mean that it is not possible to show the exact splays, however the following photographs indicate the available splays that would be available in each direction, firstly looking to the right and secondly to the left out of the site access.



3.7 As can be seen from the above photograph, whilst the splay looking to the left is given as 2.4 metres by 29 metres when measure to a point 1.0 metres off-set from

the nearside kerb, in practice due to the alignment of Keats Lane, a vehicle approaching from the east would be seen from the moment it turned into Keats Lane from Hill Top all the way to the site access, a distance of over 100 metres.

- 3.8 In order to determine whether these available visibility splays are appropriate, they have been assessed against the guidance contained in Manual for Streets (MfS) and the measured 85th percentile vehicle speeds obtained from the speed survey carried out on Keats Lane.
- 3.9 The speed survey revealed that the speed of vehicles passing the site was 22.4mph, which based on the calculation contained in MfS requires a minimum sight stopping distance of 28.8 metres. Therefore the available splays from a 2.4 metres set back of over 100 metres in one direction and 29 metres in the other direction (although as stated previously, in practice a vehicle approaching from over 100 metres away will be seen) do comply and in fact exceed the minimum requirement.
- 3.10 As such, I am of the opinion that the visibility splays that would be available out of the proposed site access should be considered acceptable and not likely to result in unacceptable harm to highway safety.

Proposed site layout

- 3.11 It is proposed that the shared private drive will be 5.0 metres wide with minimum clear margin of 0.5 metres clear margins on one side and a 2.0 metres wide footway on the other. This standard of access accords with the minimum standard contained in the Leicestershire Highway Design Guide (LHDG) to serve up to 25 dwellings.
- 3.12 In accordance with Hinckley and Bosworth B C's recycling and refuse collection requirements, the proposed site layout will include a bin collection point close to the public highway to enable kerbside collection.
- 3.13 The proposed indicative site layout also includes turning facilities that will ensure that all vehicles likely to enter the site will be able to enter and leave in a forward gear. Given that a refuse vehicle will not require access, the largest vehicle likely to enter the site would be a fire appliance. In order to demonstrate that the proposed turning facilities are suitable to enable a fire appliance to turn within the site, a swept-path analysis of the internal road for a fire appliance has been carried out.

The results of the swept-path analysis have been attached as **Appendix E** for information. The results of the swept-path analysis have informed the required length for the dropped crossing. In order to fully accommodate all movements for a fire appliance a dropped crossing of 14 metres will be required.

- 3.14 Each of the proposed properties will be provided with off-street car parking facilities that accord with the requirements contained in the LHDG.
- 3.15 The proposed indicative site layout also includes a separate footway which will provide a safe route for pedestrians to walk through the site.
- 3.16 It can therefore be seen, the site is capable for provide a site layout that could comply with the LHA's design requirements, and will therefore be capable of safely catering for the type and volume of traffic and the likely level of car parking that will be generated by the proposed development.

Trip generation

- 3.17 In order to assess the likely traffic generation for the 10 dwellings being proposed, it is normal practice to obtain trip generation figures using the National Trip Rate Computer System (TRICS). In this instance, TRICS has been interrogated to provide information on houses that are privately owned.
- 3.18 In order to try and make a reasonable comparison to the proposed site in Earl Shilton sites in London and Ireland have been deselected. Given that Earl Shilton has an approximate population of 10,000 and Hinckley and Bosworth B C area has an approximate population of 110,00, only sites that where the population was less than 10,000 within a mile radius and sites where the population was less than 100,000 in a 5 mile radius were selected. Also sites that were surveyed at a time of Covid-19 restrictions have also been deselected.
- 3.19 As a result of the selection process, TRICS provides results based on 13 residential sites, and the output data from TRICS has been attached as **Appendix F** for information.
- 3.20 In accordance with Highway Authority guidance, the predicted traffic generation rates for a single dwelling, based on the 85th percentile site highlighted by TRICS have used. The results are given as: -

AM Peak hour (8-9am)	0.286 arrivals	0.500 departures	0.786 total
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PM Peak hour (5-6pm)	0.460 arrivals	0.160 departures	0.620 total
Daily (7am to 7pm)	2.795 arrivals	2.568 departures	5.363 total

3.21 Based on the above predicted rates, the 10 dwellings proposed would generate the following traffic movements on the private shared driveway: -

AM Peak hour (8-9am)	3 arrivals	5 departures	8 total
PM Peak hour (5-6pm)	5 arrivals	2 departures	7 total
Daily (7am to 7pm)	28 arrivals	26 departures	54 total

3.22 The proposal would therefore be likely to generation up to 8 vehicle movements in the peak hours, which works out at 1 movement every 7.5 minutes. The proposal would generate around 54 additional vehicle movements each day over a 12 hour period (7am to 7pm) on Keats Lane Road. I consider that this level of traffic will not result in any unacceptable level of harm to highway safety nor will it result in a severe residual cumulative impact on the road network.

3.23 I am therefore of the opinion that the proposed site access, is both a safe and suitable access to serve the proposed development, which is only likely to generate a very low volume of traffic movements.

3.24 As such I believe that the proposal meets the requirements laid out in paragraph 110 of the revised National Planning Policy Framework 2021, and there should be no reasonable grounds to refuse the application on the basis of paragraph 111 of the revised NPPF 2021.

4 CONCLUSIONS

- 4.1 The proposed application seeks outline planning approval for the erection of 10 dwellings on land off Keats Lane, Earl Shilton.
- 4.2 The site used to contain a dwelling on the site frontage which has long since been demolished. In 2019 planning approval for a replacement dwelling on the site was granted by Hinckley and Bosworth B C.
- 4.3 The proposed development will be served by a shared private drive that has been designed in accordance with Local Highway Authority standards for the quantum of development being proposed.
- 4.4 The proposed access will be able to provide visibility splays in excess of the minimum requirements based on the measured 85th percentile speed of traffic passing the site on Keats Lane.
- 4.5 A bin collection point has been included close to the highway boundary, to allow for kerbside refuse/recycling collection, in accordance with Hinckley and Bosworth B C Waste Collection Policy.
- 4.6 The proposed access and internal layout has been tracked to show that a fire appliance, (the largest vehicle expected to enter the site) would be able to enter, turn and then leave the site in a forward direction. It is therefore considered that this report has demonstrated that the proposed access will be both safe and suitable to serve the proposed development.
- 4.7 Whilst the internal layout is not being considered for full approval at this stage, it is clear that the site will be able to achieve an internal layout with sufficient off-street car parking provision that will be able to achieve at least the minimum requirements based on the Local Highway Authority's car parking standards.
- 4.8 The additional level of traffic likely to be generated by 10 dwellings is very low, and based on TRICS predicted rates, will generate up to 8 movements in each peak hour and around 54 movements throughout the day (7am to 7pm). It is considered that such a low level of traffic would not have any negative impact on highway safety nor on highway capacity.
- 4.9 I am of the opinion that this report has demonstrated that the proposal will be served by a safe and suitable access, and that the proposed layout will easily

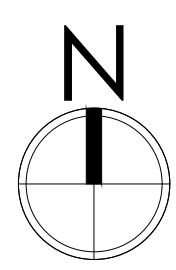
accommodate the likely demand for off-street parking generated by the 10 dwellings that are proposed.

4.10 I believe that there should be no reasonable grounds to refuse the application on the basis of paragraphs 110 or 111 of the revised NPPF 2021.

Duncan Clarke
Edwards & Edwards Consultancy Ltd

Project No 12265
Date September 2023

Appendix A. Proposed site layout plan



Rev 8/28/09.23/Red and blue line revised
Rev A/27/09.23/Red and blue line revised

PLANNING

hssp

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Proposed residential development
on land to the rear of 34 Keats Lane,
Earl Shilton, Leicestershire, LE9 7DQ

Title,	Proposed site plan
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Scale, 1:200	Drawn, MG	Checked, JCB	Date, -
Drawing No.			Revision.

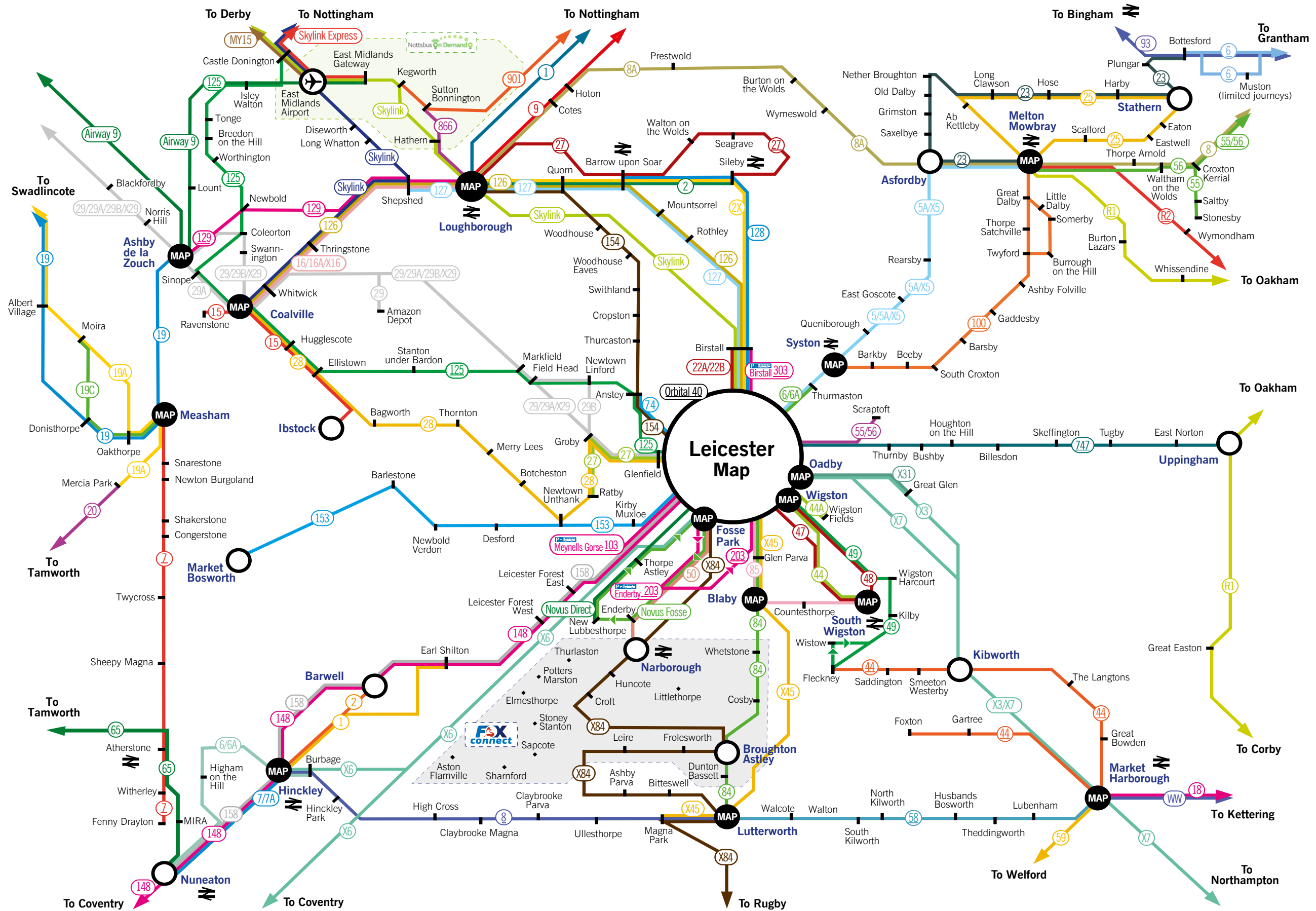
Appendix B. Bus network map

Leicestershire Network

Bus map & guide

July 2023

www.Choose how
youmove.co.uk



www.Choose how
youmove.co.uk

View other local bus guides at
www.choosehowyoumove.co.uk/public-transport

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Service	Operator(s)	Route	FREQUENCY		
			Monday – Saturday Daytime	Monday – Saturday Evenings	Sunday and Bank Holidays
			20 mins	hourly	hourly
1	Nottingham City	Loughborough - East Leake - Nottingham	20 mins	hourly	hourly
1	Arriva	Earl Shilton - Hinckley	2 hourly	no service	no service
2	Arriva	Barwell - Hinckley	2 hourly	no service	no service
2	Kinchbus	Loughborough - Quorn - Barrow upon Soar - Sileby	90 mins	no service	no service
2X	Vectare	Loughborough - Quorn - Barrow upon Soar - Sileby	infrequent	infrequent	infrequent
5	Arriva	Leicester - Belgrave - Rushey Mead - Syston - East Goscote	30 mins	hourly	30 min
5A	Arriva	Leicester - Syston - Rearsby - Melton Mowbray (1)	30 mins	no service	30 min
X5	Arriva	Leicester - Syston - Rearsby - Melton Mowbray	infrequent	no service	no service
6/6A	Arriva	Leicester - Thurmaston ASDA	15 mins	hourly	no service
6	Centrebus	Bottesford - Grantham	Infrequent	no service	no service
6/6A/6B	Arriva	Burbage - Hinckley - Stoke Golding - Higham on the Hill - Nuneaton	hourly	no service	no service
7	Arriva	Burbage - Hinckley - Hollycroft - Nuneaton	hourly	no service	no service
7	Stagecoach	Fenny Drayton - Atherstone - Twycross - Newton Burgoland - Measham	infrequent	no service	no service
8	Centrebus	Melton Mowbray - Grantham	2 hourly	no service	no service
8A	Centrebus	Loughborough - Burton on the Wolds - Wymeswold - Melton Mowbray	hourly	no service	no service
8	Arriva	Hinckley - Burbage - Hinckley Park - Magna Park - Lutterworth	hourly	no service	no service
9	Kinchbus	Loughborough - Bunny - Nottingham	hourly	2 hourly	hourly
13	First	Leicester - New Parks - Glenfield	30 mins	hourly	hourly
15	Arriva	Ravenstone - Coalville - Ellistown - Ibstock	30min Ibstock - Coalville hourly to Ravenstone	no service	no service
16	Arriva	Coalville - Whitwick - Thringstone - Shepshed - Loughborough	hourly	no service	no service
16A/X16	Arriva	Coalville - Whitwick - Thringstone - Shepshed - Loughborough	infrequent	no service	no service
18	Stagecoach	Market Harborough - Ise Lodge, Kettering	hourly	no service	no service
19	Diamond Bus	Ashby de la Zouch - Measham - Swadlincote - Burton upon Trent	hourly	no service	no service
19A	Diamond Bus	Mercia Park - Measham - Swadlincote - Burton upon Trent	Monday - Friday infrequent	no service	no service
19C	Diamond Bus	Moira - Measham - Burton upon Trent	Monday - Friday 1 morning journey	no service	no service
20	Diamond Bus	Mercia Park - Tamworth	Monday - Friday infrequent	Monday - Friday infrequent	no service
22A	Centrebus	Evington - Leicester - Birstall (Windmill Avenue)	30 mins Birstall - Leicester (Mon-Fri) hourly Evington - Leicester hourly Saturdays	hourly Evington - Leicester	no service
22B	First	Leicester - Birstall	hourly (Sat Only)	no service	no service
23	Centrebus	Melton Mowbray - Asfordby - Old Dalby - Long Clawson - Harby - Stathern - Redmile - Bottesford	2 hourly	no service	no service
25	Centrebus	Melton Mowbray - Scalford - Eastwell - Stathern	infrequent	no service	no service
27	Arriva	Leicester - Ratby via Groby Road	hourly	hourly	hourly
27	Centrebus	Loughborough - Barrow upon Soar - Walton-on-the-Wolds - Seagrave - Sileby	75 mins	no service	no service
28	Arriva	Leicester - Ratby - Botcheston - Thornton - Bagworth - Coalville	hourly	no service	no service
29	Arriva	Leicester - Groby - Markfield - Coalville - Swannington - Ashby de la Zouch - Swadlincote	hourly	hourly	hourly
29A	Arriva	Leicester - Groby - Markfield - Coalville - Ashby de la Zouch - Swadlincote	hourly	no service	no service
29B	Arriva	Leicester - Groby - Newtown Linford - Markfield - Coalville - Swannington - Ashby de la Zouch - Swadlincote	no service	no service	infrequent
X29	Arriva	Leicester - Bardon VF - Coalville - Swannington - Ashby de la Zouch - Swadlincote	infrequent	infrequent	no service
31/31A/31E	Arriva	Oadby - Leicester	15 min	30mins (31E)	30mins (31E)
Orbital 40	Centrebus	Leicester Orbital	hourly	no service	no service
44	Centrebus	Fleckney - Market Harborough - Foxton	hourly peak 2 hourly off-peak	no service	no service
44	Arriva	Leicester - South Wigston	30 mins	no service	hourly
44A	Arriva	Leicester - Wigston Magna	30 mins	hourly	no service
47	Arriva	Leicester - South Wigston - Wigston Magna - Leicester	12 mins Monday - Friday 15 mins Saturday	30 mins	30 mins
48	Arriva	Leicester - Wigston Magna - South Wigston - Leicester	12 mins Monday - Friday 15 mins Saturday	30 mins	30 mins
148	Stagecoach	Leicester - Hinckley - Nuneaton	30 mins	hourly	hourly
49	Arriva	Fleckney - Kilby - Wigston Harcourt - Wigston Magna - Leicester (2)	30 mins	no service	no service
50	Arriva	Leicester - Fosse Park - Enderby - Narborough	20 mins	30 mins/hourly	30 mins
55/56	Centrebus	Melton Mowbray - Buckminster - Grantham	infrequent	no service	no service
55	Arriva	Leicester - Scraptoft	hourly	no service	no service
56	Arriva	Leicester - Scraptoft - Thurnby School	hourly	no service	no service
58	Centrebus	Market Harborough - Husbands Bosworth - South Kilworth - Lutterworth	infrequent	no service	no service
59	UNO	Market Harborough - Marston Trussell - Sibbertoft - Clipston - Naseby - Welford	once a day Tuesday and Friday	no service	no service
65	Arriva	Tamworth - Polesworth - Atherstone - MIRA Technology Park - Nuneaton	hourly	no service	no service
74	First	Leicester - Anstey via Beaumont Centre	20 mins	hourly	hourly
84	Arriva	Leicester - Blaby - Whetstone - Cosby - Broughton Astley - Dunton Bassett - Lutterworth	30 mins Leicester - Cosby hourly Lutterworth	hourly Leicester - Broughton Astley	hourly Leicester - Broughton Astley
85	Arriva	Leicester - Blaby - Countesthorpe - South Wigston	30 mins	hourly	hourly
93	Vectare	Bingham - Whatton - Bottesford - Barrowby Gate - Grantham	90 mins	no service	no service
100	Centrebus	Syston - Barkby - Twyford - Somerby - Great Dalby - Melton Mowbray	2 hourly	no service	no service
125	Diamond Bus	Leicester - Newton Linford - Markfield - Stanton under Bardon - Coalville - Worthington - Castle Donington	infrequent	no service	no service
126	Arriva	Leicester - Loughborough - Shepshed - Whitwick - Coalville	no service	hourly	no service
127	Arriva	Leicester - Rothley - Mountsorrel - Loughborough - Shepshed	15 minutes Loughborough - Leicester 30 mins to Shepshed	service 126	30 mins
128	Centrebus	Barrow-upon-Soar - Sileby - Cossington - Birstall - Leicester	infrequent	no service	no service
129	Diamond Bus	Ashby De La Zouch - Griffydham - Belton - Shepshed - Nanpantan - Loughborough	2 hourly	no service	no service
153	Arriva	Leicester - Kirby Muxloe - Desford - Newbold Verdon - Market Bosworth	hourly	infrequent	no service
154	Centrebus	Leicester - Anstey - Thurcaston - Cropston - Swithland - Woodhouse Eaves - Quorn - Loughborough	30 mins	no service	no service

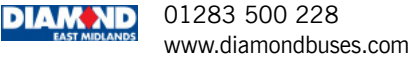
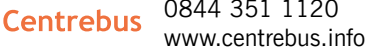
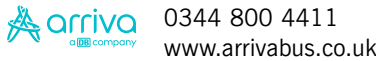
158	Arriva	Leicester - Hinckley - Nuneaton	20mins (Monday - Friday) 30mins (Sat)	hourly Leicester - Hinckley	hourly
747	Centrebus	Leicester - Houghton on the Hill - Uppingham	hourly peak 2 hourly off-peak	no service	no service
866	Centrebus	Sutton Bonnington Campus - Zouch - Hathern - Loughborough	infrequent	no service	no service
901	Arriva	Kegworth - Sutton Bonington Campus - Clifton - Nottingham University	30 mins (80 mins Sat)	hourly	80 mins
9 Airway	Diamond Bus	East Midlands Gateway - East Midlands Airport - Ashby De La Zouch - Woodville - Swadlincote - Burton upon Trent	30 mins	hourly	hourly
MY15	Trent Barton	Ilkeston - Long Eaton - Old Sawley - Castle Donington - East Midlands Airport	hourly 30 mins - EMA - Nottingham	hourly	hourly
Novus Direct	Vectare	New Lubbesthorpe - Thorpe Astley - Leicester	30 mins	hourly	30 mins
Novus Fosse	Vectare	Fosse Park - Enderby - New Lubbesthorpe - Thorpe Astley - Fosse Park (Clockwise Loop)	30 mins	30 mins	30 mins
R1	Blands	Melton Mowbray - Oakham - Uppingham - Corby	2 hourly	no service	no service
R2	Centrebus	Melton Mowbray - Wymondham - Cottesmore - Oakham	2 hourly	no service	no service
Skylink	Kinchbus	Leicester - Loughborough - Kegworth - East Midlands Airport - Castle Donington - Derby	20 mins	hourly	30 mins daytime hourly evenings
Skylink	Trent Barton	Coalville - East Midlands Airport - Castle Donington - Nottingham	20 mins EMA - Nottingham hourly EMA - Coalville	hourly EMA - Nottingham	30 mins EMA - Nottingham hourly EMA - Coalville
Skylink Express	Trent Barton	East Midlands Airport - Nottingham (Limited Stop)	30 mins	hourly	30 mins
WW	Lawsons of Corby	Market Harborough - Cottingham - Gretton	Tuesdays only	no service	no service
X3	Arriva	Leicester - Oadby - Great Glen - Kibworth - Market Harborough	hourly	no service	hourly
X6	Arriva	Leicester - Fosse Park - Hinckley - Coventry via M69 (Limited Stop)	hourly	no service	infrequent
X7	Stagecoach	Leicester - Oadby - Kibworth - Market Harborough - Northampton	hourly	hourly	hourly
X31	Arriva	Leicester - Oadby - Great Glen	infrequent	no service	no service
X45	Arriva	Leicester - Aylestone - Blaby - Lutterworth - Magna Park	Infrequent (Monday-Friday only)	Infrequent (Monday-Friday only)	no service
X84	Arriva	Leicester - Fosse Park - Huncote - Croft - Broughton Astley - Lutterworth - Magna Park - Rugby	hourly	no service	no service
Meynell's Gorse P&R 103	Roberts	Meynell's Gorse Park & Ride Site - Leicester - Meynell's Gorse Park & Ride Site (Limited Stop)	15 mins	15 mins until 7pm	no service
Enderby P&R 203	Roberts	Enderby Park & Ride Site - Leicester Royal Infirmary - Leicester City Centre - Enderby Park & Ride Site (Limited Stop)	15 mins	15 mins until 7pm	no service
Birstall P&R 303	Roberts	Birstall Park & Ride Site - Leicester - Birstall Park & Ride Site (Limited Stop)	15 mins	15 mins until 7pm	no service

Underlined services provided by Leicestershire County Council.

- (1) Certain Monday to Friday journeys will serve Twinlakes Park. Summer holiday time only.
(2) City journeys to run via Wistow rural centre and maze.

Further information

For comprehensive service information contact Traveline between 07.00 – 22.00



Additional services

There may be other services operating less frequently in your area. Facilities for those with special needs are offered by the Accessible, Community or Demand Responsive Transport service providers. For further information call **0116 305 0002**.

How to use this map

The map is a guide to bus services and connections operating across Leicestershire.

Please contact each service for further information, details are supplied above.

Underlined services are those supported by Leicestershire County Council, other services may have supported journeys.

Printed and online guides

Separate bus guides are available for various locations (identified by the word MAP), including a Leicester Hospitals guide. Visit **www.choosehowyoumove.co.uk/public-transport** for online guides (updates will only occur if services change). Printed versions can be found at local libraries, tourist information centres, local council offices and bus company travel shops.



www.choosehowyoumove.co.uk/public-transport • 0116 305 0002 • choosehowyoumove@leics.gov.uk
Safe and Sustainable Travel Team, Environment and Transport, Leicestershire County Council, Glenfield, Leicester, LE3 8RJ

The information contained in this leaflet is correct at time of printing, but may be subject to change. Every effort will be made to maintain these services. However, no liability can be accepted for failure to operate the services as specified. Please check the operator's website for the most up to date bus timetables.

Appendix C. Free cycle map covering Hinckley and Bosworth Area



Cycling in the Hinckley and Bosworth area

The towns of Hinckley and Market Bosworth are surrounded by many of Leicestershire's prettiest villages and rolling countryside.



Hinckley itself has excellent cycling facilities including connections with nearby Earl Shilton, Barwell and

Burbage as well as routes around the town centre and railway station.

The area is home to one of the country's most important historical sites –

Bosworth Battlefield and its award winning Heritage Centre. The site includes some fantastic walking and cycling routes, and the Tithe Barn Restaurant is a great place to go for a rest stop.



Close by is the **Ashby Canal**, with waterside routes and the **Battlefield Line** – complete the unique 'Cycle and Steam' circular route from Shackerstone or Shenton stations, returning with your bike on the heritage railway line.

Nestled further east on the edge of Charnwood Forest is **Thornton Reservoir**, another of Leicestershire's great leisure cycling routes including a marked woodland track.

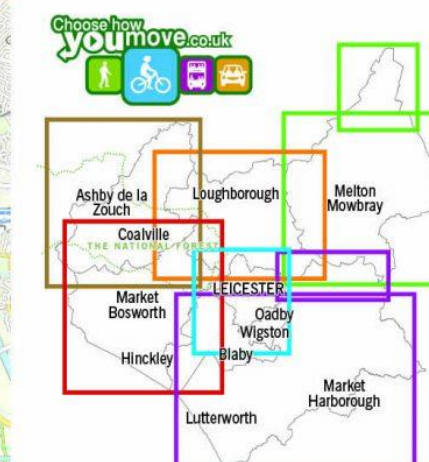
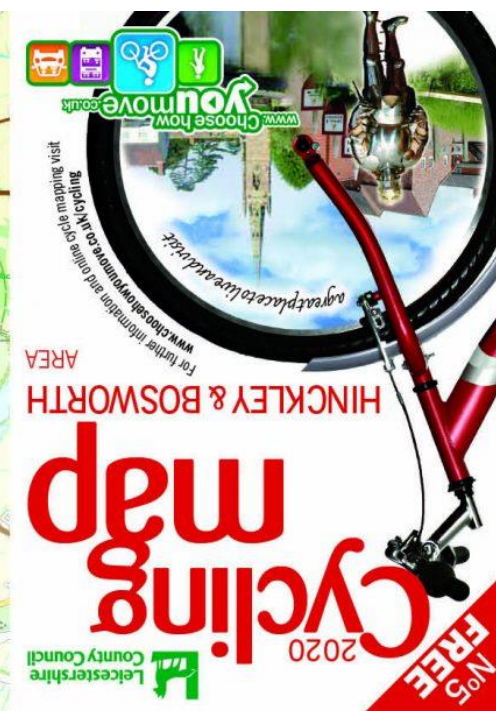
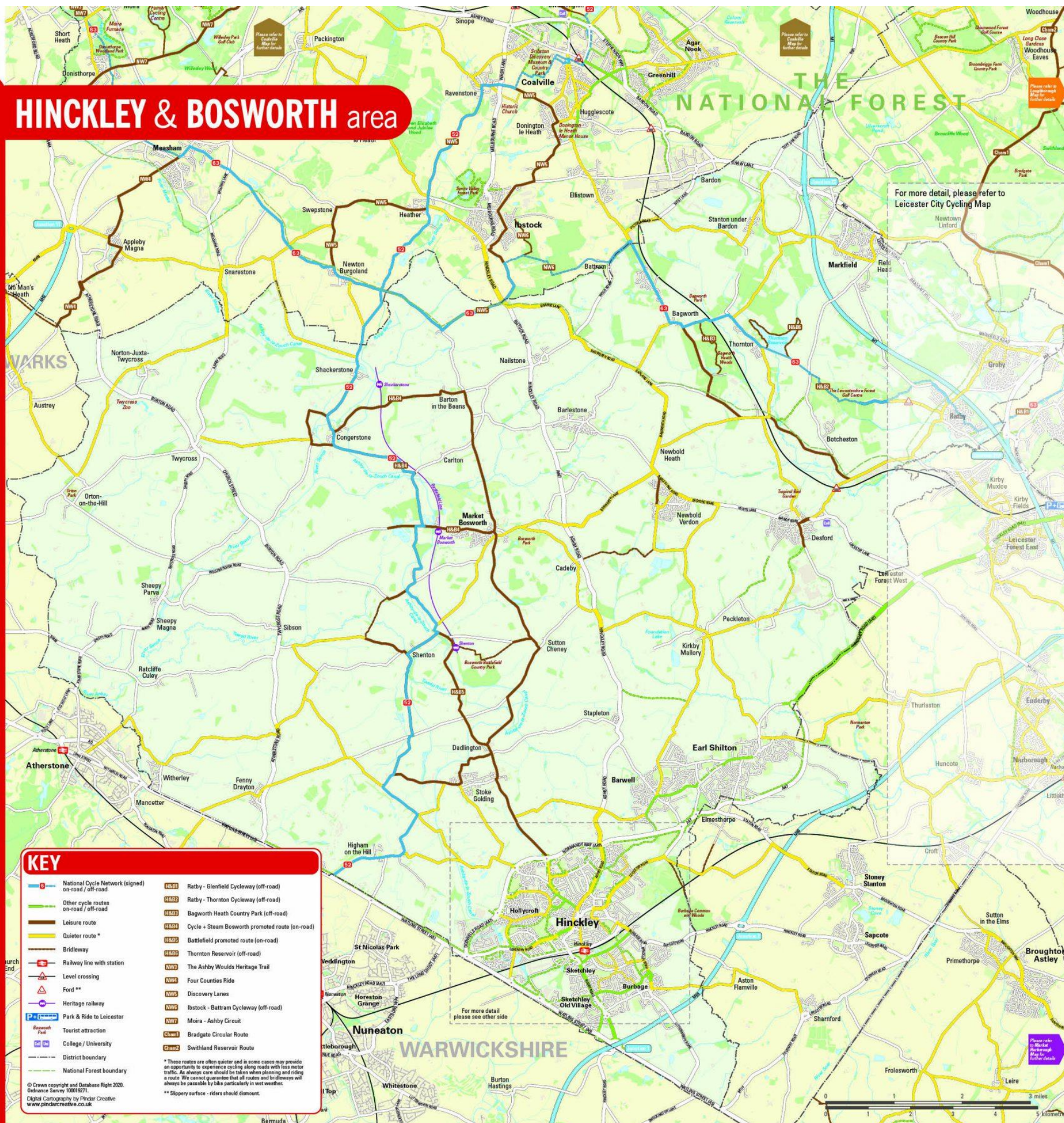


Leicestershire's **Choose How You Move** campaign helps people to get fit, save money,

have fun and help the environment - by leaving their cars at home. Choose how you move by walking, cycling, using public transport or car sharing for everyday journeys.

For information about cycling and other forms of sustainable transport visit our website: choosehowyoumove.co.uk

HINCKLEY & BOSWORTH area



Download or view our other cycling maps at www.choosehowyoumove.co.uk/cycling

If you would like help in understanding the text on this leaflet in an alternative language or require it in a large font/audio format please contact Leicestershire County Council on 0116 305 0001. The map section can be enlarged if required. Users of these routes do so at their own risk. Refer to the Good Cycling Tips inside this leaflet.

Produced and printed by Pindar Creative www.pindarcreative.co.uk

Walk. Run. Cycle.
For points and prizes!

BetterPoints

Walk, run or cycle in Leicestershire to earn points for high-street vouchers or donating to charity.

- Download the free BetterPoints app
- Record your journeys to earn points and the chance to win prizes
- Donate your points to charity or exchange them for rewards!

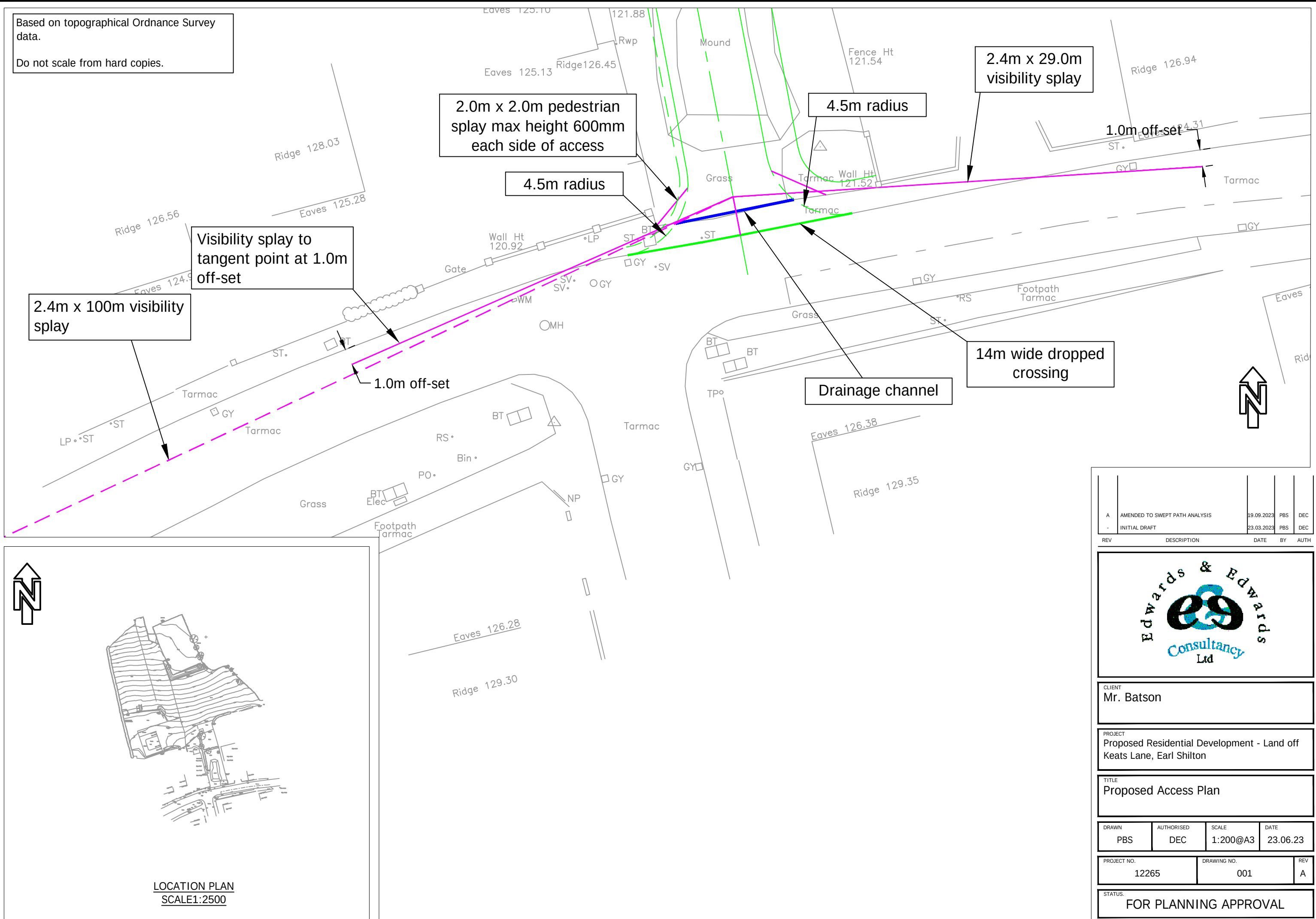


Get started at choosehowyoumove.betterpoints.uk



Appendix D. Access design drawing

Do not scale from hard copies.



REV	DESCRIPTION	DATE	BY	AUTH
A	AMENDED TO SWEEP PATH ANALYSIS	19.09.2023	PBS	DEC
-	INITIAL DRAFT	23.03.2023	PBS	DEC



CLIENT
Mr. Batson

PROJECT
Proposed Residential Development - Land off
Keats Lane, Earl Shilton

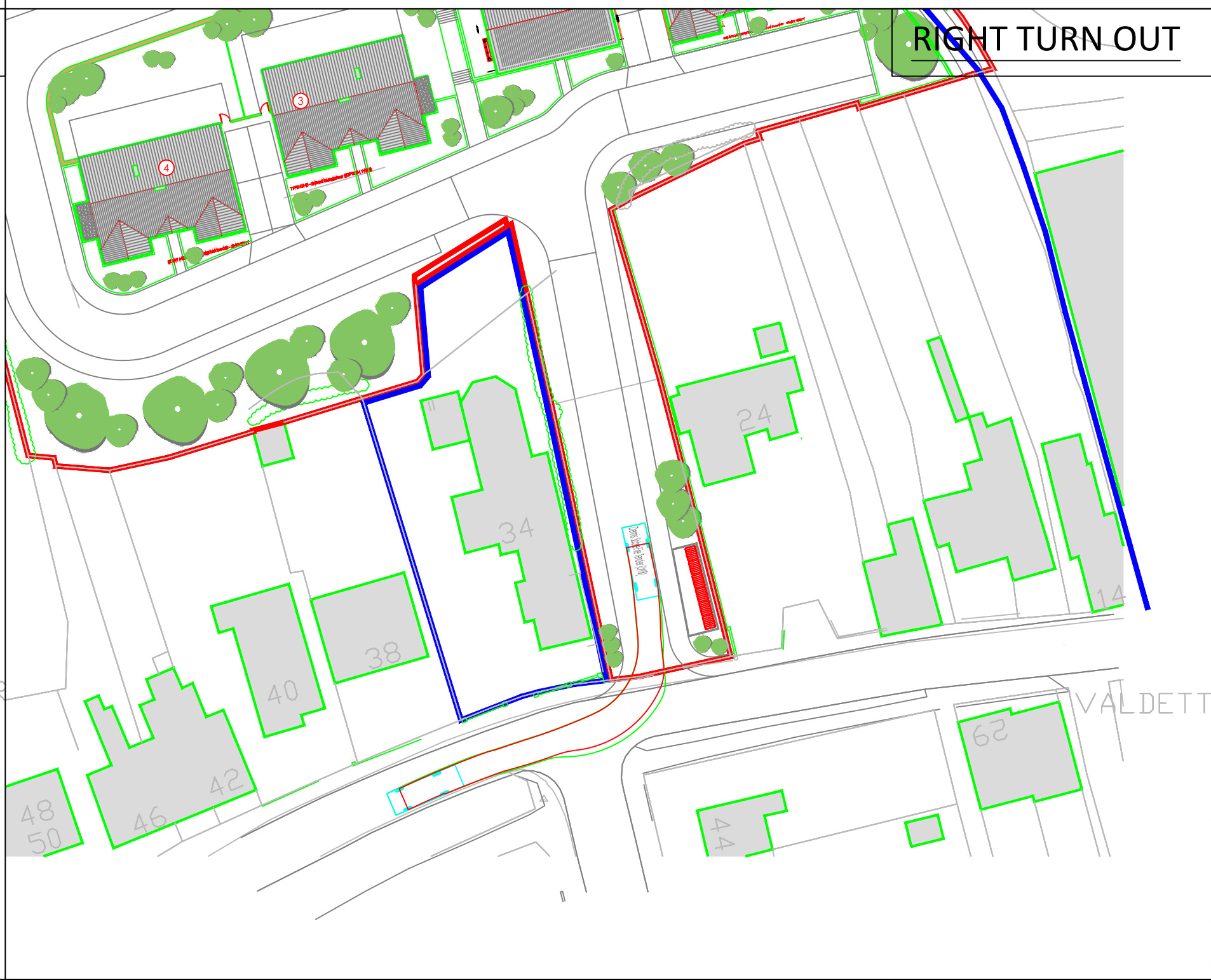
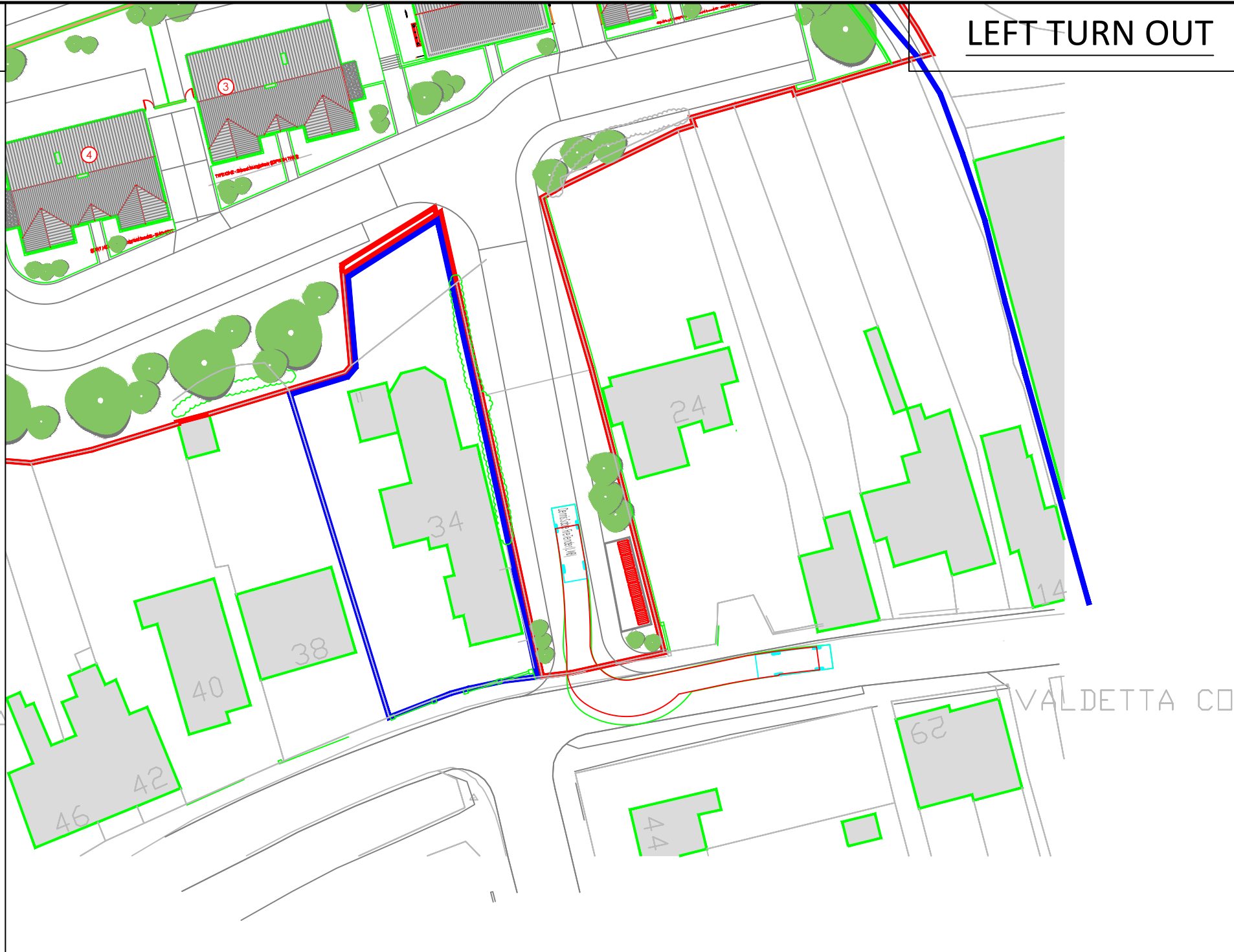
TITLE
Proposed Access Plan

DRAWN PBS	AUTHORISED DEC	SCALE 1:200@A3	DATE 23.06.23
--------------	-------------------	-------------------	------------------

PROJECT NO. 12265	DRAWING NO. 001	REV A
----------------------	--------------------	----------

STATUS. **FOR PLANNING APPROVAL**

Appendix E. Swept-path analysis for fire appliance

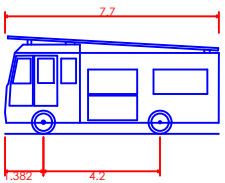


Based on Ordnance Survey data provided by UKPlanningMaps.com

Do not scale from hard copies.



VEHICLE PROFILE



Dennis Sabre Fire Tender (LWB)

Overall Length	7.700m
Overall Width	2.430m
Overall Body Height	3.512m
Min Body Ground Clearance	0.397m
Track Width	2.380m
Lock to lock time	5.00s
Kerb to Kerb Turning Radius	7.400m

A	Re-tracked to reflect latest site layout	26.09.23	GE	EAE
REV	DESCRIPTION	DATE	BY	AUTH



CLIENT
MR BATSON

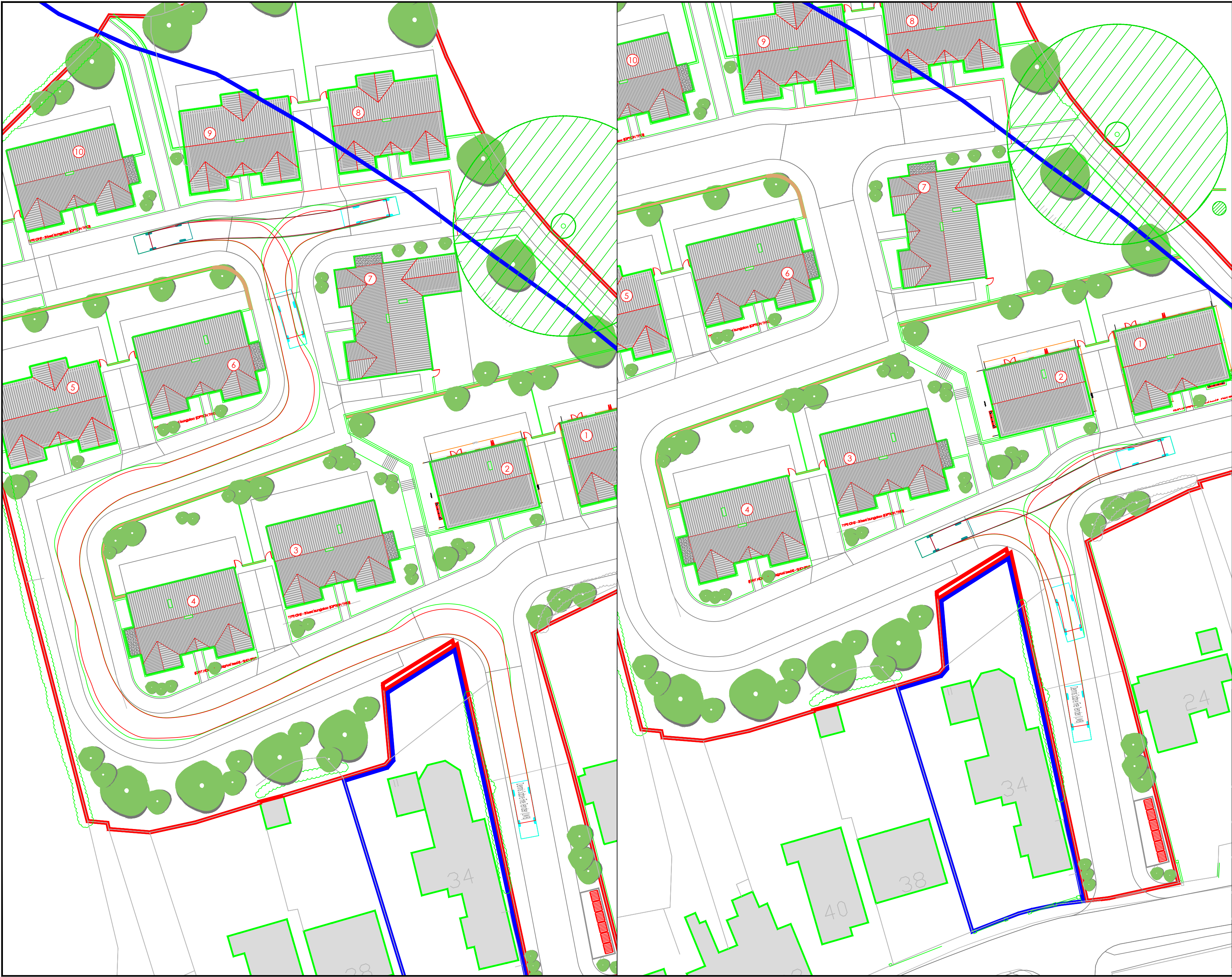
PROJECT
LAND OFF KEATS LANE
EARL SHILTON

TITLE
SWEEP PATH ANALYSIS

DRAWN GOE	AUTHORISED DC	SCALE 1:500@A2	DATE 26/09/23
--------------	------------------	-------------------	------------------

PROJECT NO. 12265	DRAWING NO. 002	REV A
----------------------	--------------------	----------

STATUS
PLANNING

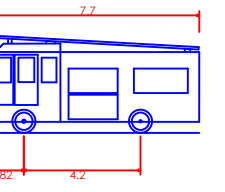


Based on Ordnance Survey data provided by UKPlanningMaps.com

Do not scale from hard copies.



VEHICLE PROFILE



Dennis Sabre Fire Tender (LWB)

Overall Length7.700m

Overall Width2.430m

Overall Body Height3.512m

Min Body Ground Clearance0.397m

Track Width2.380m

Lock to lock time5.00s

Kerb to Kerb Turning Radius7.400m

A	Re-tracked to reflect latest site layout	26.09.23	GE	EAE	
REV	DESCRIPTION	DATE	BY	AUTH	
					
CLIENT MR BATSON					
PROJECT LAND OFF KEATS LANE EARL SHILTON					
TITLE SWEEP PATH ANALYSIS					
DRAWN GOE	AUTHORISED DC	SCALE 1:500@A2	DATE 26/09/23		
PROJECT NO. 12265	DRAWING NO. 003	REV A			
STATUS PLANNING					

Appendix F. TRICS output data for residential dwellings

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
Category : A - HOUSES PRIVATELY OWNED
TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	HC HAMPSHIRE	2 days
03	SOUTH WEST	
	DC DORSET	2 days
	SM SOMERSET	2 days
04	EAST ANGLIA	
	NF NORFOLK	2 days
	SF SUFFOLK	1 days
08	NORTH WEST	
	AC CHESHIRE WEST & CHESTER	1 days
09	NORTH	
	DH DURHAM	1 days
10	WALES	
	PS POWYS	2 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 Dwellings
Actual Range: 16 to 50 (units:)
Range Selected by User: 5 to 50 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 09/11/22

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
Wednesday	2 days
Thursday	3 days
Friday	3 days

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

Selected survey types:

Manual count	12 days
Directional ATC Count	1 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	1
Suburban Area (PPS6 Out of Centre)	4
Edge of Town	5
Neighbourhood Centre (PPS6 Local Centre)	3

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.

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

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	12 days - Selected
Servicing vehicles Excluded	47 days - Selected

Secondary Filtering selection:

Use Class:

C3	13 days
----	---------

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

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	4 days
5,001 to 10,000	8 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	4 days
25,001 to 50,000	4 days
50,001 to 75,000	2 days
75,001 to 100,000	3 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	1 days
1.1 to 1.5	11 days
1.6 to 2.0	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:

Yes	6 days
No	7 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	13 days
-----------------	---------

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

LIST OF SITES relevant to selection parameters

1	AC-03-A-04	TOWN HOUSES		CHESHIRE WEST & CHESTER
	LONDON ROAD			
	NORTHWICH			
	LEFTWICH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	24		
	Survey date: THURSDAY	06/06/19	Survey Type: MANUAL	
2	DC-03-A-09	MIXED HOUSES		DORSET
	A350			
	SHAFTESBURY			
	Edge of Town			
	No Sub Category			
	Total No of Dwellings:	50		
	Survey date: FRIDAY	19/11/21	Survey Type: MANUAL	
3	DC-03-A-10	MIXED HOUSES		DORSET
	ADDISON CLOSE			
	GILLINGHAM			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	26		
	Survey date: WEDNESDAY	09/11/22	Survey Type: MANUAL	
4	DH-03-A-01	SEMI DETACHED		DURHAM
	GREENFIELDS ROAD			
	BISHOP AUCKLAND			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	50		
	Survey date: TUESDAY	28/03/17	Survey Type: MANUAL	
5	HC-03-A-17	HOUSES & FLATS		HAMPSHIRE
	CANADA WAY			
	LIPHOOK			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	36		
	Survey date: THURSDAY	12/11/15	Survey Type: MANUAL	
6	HC-03-A-31	MIXED HOUSES & FLATS		HAMPSHIRE
	KILN ROAD			
	LIPHOOK			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	44		
	Survey date: FRIDAY	07/10/22	Survey Type: MANUAL	
7	NF-03-A-05	MIXED HOUSES		NORFOLK
	HEATH DRIVE			
	HOLT			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	40		
	Survey date: THURSDAY	19/09/19	Survey Type: MANUAL	
8	NF-03-A-10	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD			
	HUNSTANTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	17		
	Survey date: WEDNESDAY	12/09/18	Survey Type: DIRECTIONAL ATC COUNT	

LIST OF SITES relevant to selection parameters (Cont.)

9	PS-03-A-01 BRYN GLAS WELSHPOOL	MIXED HOUSES	POWYS
	Edge of Town Centre Residential Zone Total No of Dwellings: 16 Survey date: MONDAY 11/05/15 Survey Type: MANUAL		
10	PS-03-A-02 GUNROG ROAD WELSHPOOL	DETACHED / SEMI-DETACHED	POWYS
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 28 Survey date: MONDAY 11/05/15 Survey Type: MANUAL		
11	SF-03-A-06 BURY ROAD KENTFORD	DETACHED & SEMI-DETACHED	SUFFOLK
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 38 Survey date: FRIDAY 22/09/17 Survey Type: MANUAL		
12	SM-03-A-02 HYDE LANE NEAR TAUNTON CREECH SAINT MICHAEL	MIXED HOUSES	SOMERSET
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 42 Survey date: TUESDAY 25/09/18 Survey Type: MANUAL		
13	SM-03-A-03 HYDE LANE NEAR TAUNTON CREECH ST MICHAEL	MIXED HOUSES	SOMERSET
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 41 Survey date: TUESDAY 25/09/18 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.

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
AC-03-A-05	Surveyed during covid 19 restrictions
CA-03-A-07	Surveyed during covid 19 restrictions
ES-03-A-06	Surveyed during covid 19 restrictions
SF-03-A-08	Surveyed during covid 19 restrictions

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 TOTAL VEHICLES

Ranking Type: TOTALS Time Range: 08:00-09:00 CALCULATION FACTOR 100m2 DWELLS

WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under
 20 surveys is not recommended by TRICS and may be misleading.

15th Percentile = No. 11 SF-03-A-06 Tot: 0.290

85th Percentile = No. 3 SM-03-A-02 Tot: 0.786

Median Values

Arrivals: 0.188

Departures: 0.250

Totals: 0.438

Mean Values

Arrivals: 0.169

Departures: 0.320

Totals: 0.489

Rank	Site-Ref	Description	Town/City	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals)			Park Spaces Per Dwelling
								Arrivals	Departures	Totals	
1	DC-03-A-10	MIXED HOUSES	GILLINGHAM	DORSET	26	Wed	09/11/22	0.346	0.577	0.923	2.12
2	AC-03-A-04	TOWN HOUSES	NORTHWICH	CHESHIRE WEST & CHE	24	Thu	06/06/19	0.292	0.542	0.834	1.96
3	SM-03-A-02	MIXED HOUSES	NEAR TAUNTON	SOMERSET	42	Tue	25/09/18	0.286	0.500	0.786	3.38
4	NF-03-A-05	MIXED HOUSES	HOLT	NORFOLK	40	Thu	19/09/19	0.300	0.300	0.600	2.50
5	SM-03-A-03	MIXED HOUSES	NEAR TAUNTON	SOMERSET	41	Tue	25/09/18	0.171	0.390	0.561	2.88
6	PS-03-A-02	DETACHED/SEMI-	WELSHPOOL	POWYS	28	Mon	11/05/15	0.179	0.321	0.500	2.32
7	PS-03-A-01	MIXED HOUSES	WELSHPOOL	POWYS	16	Mon	11/05/15	0.188	0.250	0.438	1.63
8	HC-03-A-31	MIXED HOUSES &	LIPHOOK	HAMPSHIRE	44	Fri	07/10/22	0.159	0.227	0.386	2.57
9	DC-03-A-09	MIXED HOUSES	SHAFTESBURY	DORSET	50	Fri	19/11/21	0.140	0.200	0.340	2.68
10	HC-03-A-17	HOUSES & FLATS	LIPHOOK	HAMPSHIRE	36	Thu	12/11/15	0.000	0.306	0.306	2.19
11	SF-03-A-06	DETACHED & SEM	KENTFORD	SUFFOLK	38	Fri	22/09/17	0.053	0.237	0.290	0.92
12	NF-03-A-10	MIXED HOUSES &	HUNSTANTON	NORFOLK	17	Wed	12/09/18	0.059	0.176	0.235	3.35
13	DH-03-A-01	SEMI DETACHED	BISHOP AUCKLAND	DURHAM	50	Tue	28/03/17	0.020	0.140	0.160	1.74

This section displays actual (not average) trip rates for each of the survey days in the selected set, and ranks them in order of relative trip rate intensity, for a given time period (or peak period irrespective of time) selected by the user. The count type and direction are both displayed just above the table, along with the rows within the table representing the 85th and 15th percentile trip rate figures (highlighted in bold within the table itself).

The table itself displays details of each individual survey, alongside arrivals, departures and totals trip rates, sorted by whichever of the three directional options has been chosen by the user. As with the preceeding trip rate calculation results table, the trip rates shown are per the calculation factor (e.g. per 100m2 GFA, per employee, per hectare, etc). Note that if the peak period option has been selected (as opposed to a specific chosen time period), the peak period for each individual survey day in the table is also displayed.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	HC HAMPSHIRE	2 days
03	SOUTH WEST	
	DC DORSET	2 days
	SM SOMERSET	2 days
04	EAST ANGLIA	
	NF NORFOLK	2 days
	SF SUFFOLK	1 days
08	NORTH WEST	
	AC CHESHIRE WEST & CHESTER	1 days
09	NORTH	
	DH DURHAM	1 days
10	WALES	
	PS POWYS	2 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 Dwellings
 Actual Range: 16 to 50 (units:)
 Range Selected by User: 5 to 50 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 09/11/22

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
Wednesday	2 days
Thursday	3 days
Friday	3 days

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

Selected survey types:

Manual count	12 days
Directional ATC Count	1 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	1
Suburban Area (PPS6 Out of Centre)	4
Edge of Town	5
Neighbourhood Centre (PPS6 Local Centre)	3

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.

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

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	12 days - Selected
Servicing vehicles Excluded	47 days - Selected

Secondary Filtering selection:

Use Class:

C3	13 days
----	---------

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

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	4 days
5,001 to 10,000	8 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	4 days
25,001 to 50,000	4 days
50,001 to 75,000	2 days
75,001 to 100,000	3 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	1 days
1.1 to 1.5	11 days
1.6 to 2.0	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:

Yes	6 days
No	7 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	13 days
-----------------	---------

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

LIST OF SITES relevant to selection parameters

1	AC-03-A-04	TOWN HOUSES		CHESHIRE WEST & CHESTER
	LONDON ROAD			
	NORTHWICH			
	LEFTWICH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	24		
	Survey date: THURSDAY	06/06/19	Survey Type: MANUAL	
2	DC-03-A-09	MIXED HOUSES		DORSET
	A350			
	SHAFTESBURY			
	Edge of Town			
	No Sub Category			
	Total No of Dwellings:	50		
	Survey date: FRIDAY	19/11/21	Survey Type: MANUAL	
3	DC-03-A-10	MIXED HOUSES		DORSET
	ADDISON CLOSE			
	GILLINGHAM			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	26		
	Survey date: WEDNESDAY	09/11/22	Survey Type: MANUAL	
4	DH-03-A-01	SEMI DETACHED		DURHAM
	GREENFIELDS ROAD			
	BISHOP AUCKLAND			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	50		
	Survey date: TUESDAY	28/03/17	Survey Type: MANUAL	
5	HC-03-A-17	HOUSES & FLATS		HAMPSHIRE
	CANADA WAY			
	LIPHOOK			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	36		
	Survey date: THURSDAY	12/11/15	Survey Type: MANUAL	
6	HC-03-A-31	MIXED HOUSES & FLATS		HAMPSHIRE
	KILN ROAD			
	LIPHOOK			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	44		
	Survey date: FRIDAY	07/10/22	Survey Type: MANUAL	
7	NF-03-A-05	MIXED HOUSES		NORFOLK
	HEATH DRIVE			
	HOLT			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	40		
	Survey date: THURSDAY	19/09/19	Survey Type: MANUAL	
8	NF-03-A-10	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD			
	HUNSTANTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	17		
	Survey date: WEDNESDAY	12/09/18	Survey Type: DIRECTIONAL ATC COUNT	

LIST OF SITES relevant to selection parameters (Cont.)

9	PS-03-A-01 BRYN GLAS WELSHPOOL	MIXED HOUSES	POWYS
	Edge of Town Centre Residential Zone Total No of Dwellings: 16 Survey date: MONDAY 11/05/15 Survey Type: MANUAL		
10	PS-03-A-02 GUNROG ROAD WELSHPOOL	DETACHED / SEMI-DETACHED	POWYS
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 28 Survey date: MONDAY 11/05/15 Survey Type: MANUAL		
11	SF-03-A-06 BURY ROAD KENTFORD	DETACHED & SEMI-DETACHED	SUFFOLK
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 38 Survey date: FRIDAY 22/09/17 Survey Type: MANUAL		
12	SM-03-A-02 HYDE LANE NEAR TAUNTON CREECH SAINT MICHAEL	MIXED HOUSES	SOMERSET
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 42 Survey date: TUESDAY 25/09/18 Survey Type: MANUAL		
13	SM-03-A-03 HYDE LANE NEAR TAUNTON CREECH ST MICHAEL	MIXED HOUSES	SOMERSET
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 41 Survey date: TUESDAY 25/09/18 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.

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
AC-03-A-05	Surveyed during covid 19 restrictions
CA-03-A-07	Surveyed during covid 19 restrictions
ES-03-A-06	Surveyed during covid 19 restrictions
SF-03-A-08	Surveyed during covid 19 restrictions

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 TOTAL VEHICLES

Ranking Type: TOTALS Time Range: 17:00-18:00 CALCULATION FACTOR 100m2 DWELLS

WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under
 20 surveys is not recommended by TRICS and may be misleading.

15th Percentile = No. 11 DH-03-A-01 Tot: 0.240

85th Percentile = No. 3 DC-03-A-09 Tot: 0.620

Median Values

Arrivals: 0.300

Departures: 0.175

Totals: 0.475

Mean Values

Arrivals: 0.308

Departures: 0.134

Totals: 0.443

Rank	Site-Ref	Description	Town/City	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals)			Park Spaces Per Dwelling
								Arrivals	Departures	Totals	
1	SM-03-A-03	MIXED HOUSES	NEAR TAUNTON	SOMERSET	41	Tue	25/09/18	0.537	0.146	0.683	2.88
2	SM-03-A-02	MIXED HOUSES	NEAR TAUNTON	SOMERSET	42	Tue	25/09/18	0.452	0.190	0.642	3.38
3	DC-03-A-09	MIXED HOUSES	SHAFTESBURY	DORSET	50	Fri	19/11/21	0.460	0.160	0.620	2.68
4	DC-03-A-10	MIXED HOUSES	GILLINGHAM	DORSET	26	Wed	09/11/22	0.500	0.115	0.615	2.12
5	HC-03-A-17	HOUSES & FLATS	LIPHOOK	HAMPSHIRE	36	Thu	12/11/15	0.306	0.222	0.528	2.19
6	HC-03-A-31	MIXED HOUSES &	LIPHOOK	HAMPSHIRE	44	Fri	07/10/22	0.318	0.205	0.523	2.57
7	NF-03-A-05	MIXED HOUSES	HOLT	NORFOLK	40	Thu	19/09/19	0.300	0.175	0.475	2.50
8	NF-03-A-10	MIXED HOUSES &	HUNSTANTON	NORFOLK	17	Wed	12/09/18	0.294	0.176	0.470	3.35
9	PS-03-A-01	MIXED HOUSES	WELSHPOOL	POWYS	16	Mon	11/05/15	0.250	0.188	0.438	1.63
10	SF-03-A-06	DETACHED & SEM	KENTFORD	SUFFOLK	38	Fri	22/09/17	0.263	0.079	0.342	0.92
11	DH-03-A-01	SEMI DETACHED	BISHOP AUCKLAND	DURHAM	50	Tue	28/03/17	0.220	0.020	0.240	1.74
12	PS-03-A-02	DETACHED/SEMI-	WELSHPOOL	POWYS	28	Mon	11/05/15	0.107	0.071	0.178	2.32
13	AC-03-A-04	TOWN HOUSES	NORTHWICH	CHESHIRE WEST & CHE	24	Thu	06/06/19	0.000	0.000	0.000	1.96

This section displays actual (not average) trip rates for each of the survey days in the selected set, and ranks them in order of relative trip rate intensity, for a given time period (or peak period irrespective of time) selected by the user. The count type and direction are both displayed just above the table, along with the rows within the table representing the 85th and 15th percentile trip rate figures (highlighted in bold within the table itself).

The table itself displays details of each individual survey, alongside arrivals, departures and totals trip rates, sorted by whichever of the three directional options has been chosen by the user. As with the preceeding trip rate calculation results table, the trip rates shown are per the calculation factor (e.g. per 100m2 GFA, per employee, per hectare, etc). Note that if the peak period option has been selected (as opposed to a specific chosen time period), the peak period for each individual survey day in the table is also displayed.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	HC HAMPSHIRE	2 days
03	SOUTH WEST	
	DC DORSET	2 days
	SM SOMERSET	2 days
04	EAST ANGLIA	
	NF NORFOLK	2 days
	SF SUFFOLK	1 days
08	NORTH WEST	
	AC CHESHIRE WEST & CHESTER	1 days
09	NORTH	
	DH DURHAM	1 days
10	WALES	
	PS POWYS	2 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 Dwellings
 Actual Range: 16 to 50 (units:)
 Range Selected by User: 5 to 50 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 09/11/22

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
Wednesday	2 days
Thursday	3 days
Friday	3 days

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

Selected survey types:

Manual count	12 days
Directional ATC Count	1 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	1
Suburban Area (PPS6 Out of Centre)	4
Edge of Town	5
Neighbourhood Centre (PPS6 Local Centre)	3

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.

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

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	12 days - Selected
Servicing vehicles Excluded	47 days - Selected

Secondary Filtering selection:

Use Class:

C3	13 days
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This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	4 days
5,001 to 10,000	8 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	4 days
25,001 to 50,000	4 days
50,001 to 75,000	2 days
75,001 to 100,000	3 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	1 days
1.1 to 1.5	11 days
1.6 to 2.0	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:

Yes	6 days
No	7 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	13 days
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This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	AC-03-A-04	TOWN HOUSES		CHESHIRE WEST & CHESTER
	LONDON ROAD			
	NORTHWICH			
	LEFTWICH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	24		
	Survey date: THURSDAY	06/06/19	Survey Type: MANUAL	
2	DC-03-A-09	MIXED HOUSES		DORSET
	A350			
	SHAFTESBURY			
	Edge of Town			
	No Sub Category			
	Total No of Dwellings:	50		
	Survey date: FRIDAY	19/11/21	Survey Type: MANUAL	
3	DC-03-A-10	MIXED HOUSES		DORSET
	ADDISON CLOSE			
	GILLINGHAM			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	26		
	Survey date: WEDNESDAY	09/11/22	Survey Type: MANUAL	
4	DH-03-A-01	SEMI DETACHED		DURHAM
	GREENFIELDS ROAD			
	BISHOP AUCKLAND			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	50		
	Survey date: TUESDAY	28/03/17	Survey Type: MANUAL	
5	HC-03-A-17	HOUSES & FLATS		HAMPSHIRE
	CANADA WAY			
	LIPHOOK			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	36		
	Survey date: THURSDAY	12/11/15	Survey Type: MANUAL	
6	HC-03-A-31	MIXED HOUSES & FLATS		HAMPSHIRE
	KILN ROAD			
	LIPHOOK			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	44		
	Survey date: FRIDAY	07/10/22	Survey Type: MANUAL	
7	NF-03-A-05	MIXED HOUSES		NORFOLK
	HEATH DRIVE			
	HOLT			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	40		
	Survey date: THURSDAY	19/09/19	Survey Type: MANUAL	
8	NF-03-A-10	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD			
	HUNSTANTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	17		
	Survey date: WEDNESDAY	12/09/18	Survey Type: DIRECTIONAL ATC COUNT	

LIST OF SITES relevant to selection parameters (Cont.)

9	PS-03-A-01 BRYN GLAS WELSHPOOL	MIXED HOUSES	POWYS
	Edge of Town Centre Residential Zone Total No of Dwellings: 16 Survey date: MONDAY 11/05/15		Survey Type: MANUAL
10	PS-03-A-02 GUNROG ROAD WELSHPOOL	DETACHED / SEMI-DETACHED	POWYS
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 28 Survey date: MONDAY 11/05/15		Survey Type: MANUAL
11	SF-03-A-06 BURY ROAD KENTFORD	DETACHED & SEMI-DETACHED	SUFFOLK
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 38 Survey date: FRIDAY 22/09/17		Survey Type: MANUAL
12	SM-03-A-02 HYDE LANE NEAR TAUNTON CREECH SAINT MICHAEL	MIXED HOUSES	SOMERSET
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 42 Survey date: TUESDAY 25/09/18		Survey Type: MANUAL
13	SM-03-A-03 HYDE LANE NEAR TAUNTON CREECH ST MICHAEL	MIXED HOUSES	SOMERSET
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 41 Survey date: TUESDAY 25/09/18		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.

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
AC-03-A-05	Surveyed during covid 19 restrictions
CA-03-A-07	Surveyed during covid 19 restrictions
ES-03-A-06	Surveyed during covid 19 restrictions
SF-03-A-08	Surveyed during covid 19 restrictions

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 TOTAL VEHICLES

Ranking Type: TOTALS Time Range: 07:00-19:00 CALCULATION FACTOR 100m2 DWELLS

WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under
 20 surveys is not recommended by TRICS and may be misleading.

15th Percentile = No. 11 AC-03-A-04 Tot: 2.875

85th Percentile = No. 3 HC-03-A-31 Tot: 5.363

Median Values

Arrivals: 2.107

Departures: 2.071

Totals: 4.178

Mean Values

Arrivals: 2.066

Departures: 2.105

Totals: 4.171

Rank	Site-Ref	Description	Town/City	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals)			Park Spaces Per Dwelling
								Arrivals	Departures	Totals	
1	DC-03-A-09	MIXED HOUSES	SHAFTESBURY	DORSET	50	Fri	19/11/21	2.880	2.720	5.600	2.68
2	SM-03-A-03	MIXED HOUSES	NEAR TAUNTON	SOMERSET	41	Tue	25/09/18	2.707	2.683	5.390	2.88
3	HC-03-A-31	MIXED HOUSES &	LIPHOOK	HAMPSHIRE	44	Fri	07/10/22	2.795	2.568	5.363	2.57
4	NF-03-A-05	MIXED HOUSES	HOLT	NORFOLK	40	Thu	19/09/19	2.600	2.750	5.350	2.50
5	SM-03-A-02	MIXED HOUSES	NEAR TAUNTON	SOMERSET	42	Tue	25/09/18	2.500	2.667	5.167	3.38
6	DC-03-A-10	MIXED HOUSES	GILLINGHAM	DORSET	26	Wed	09/11/22	2.154	2.192	4.346	2.12
7	PS-03-A-02	DETACHED/SEMI-	WELSHPOOL	POWYS	28	Mon	11/05/15	2.107	2.071	4.178	2.32
8	PS-03-A-01	MIXED HOUSES	WELSHPOOL	POWYS	16	Mon	11/05/15	1.938	2.125	4.063	1.63
9	NF-03-A-10	MIXED HOUSES &	HUNSTANTON	NORFOLK	17	Wed	12/09/18	1.706	1.765	3.471	3.35
10	SF-03-A-06	DETACHED & SEM	KENTFORD	SUFFOLK	38	Fri	22/09/17	1.368	1.553	2.921	0.92
11	AC-03-A-04	TOWN HOUSES	NORTHWICH	CHESHIRE WEST & CHE	24	Thu	06/06/19	1.375	1.500	2.875	1.96
12	HC-03-A-17	HOUSES & FLATS	LIPHOOK	HAMPSHIRE	36	Thu	12/11/15	1.472	1.389	2.861	2.19
13	DH-03-A-01	SEMI DETACHED	BISHOP AUCKLAND	DURHAM	50	Tue	28/03/17	1.260	1.380	2.640	1.74

This section displays actual (not average) trip rates for each of the survey days in the selected set, and ranks them in order of relative trip rate intensity, for a given time period (or peak period irrespective of time) selected by the user. The count type and direction are both displayed just above the table, along with the rows within the table representing the 85th and 15th percentile trip rate figures (highlighted in bold within the table itself).

The table itself displays details of each individual survey, alongside arrivals, departures and totals trip rates, sorted by whichever of the three directional options has been chosen by the user. As with the preceeding trip rate calculation results table, the trip rates shown are per the calculation factor (e.g. per 100m2 GFA, per employee, per hectare, etc). Note that if the peak period option has been selected (as opposed to a specific chosen time period), the peak period for each individual survey day in the table is also displayed.