

**acstro**

July 2023

**Transport  
Statement**

**Residential Development  
Llanarth  
Ceredigion**

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## Revision History

A	24 <sup>th</sup> July 2023	First Issue

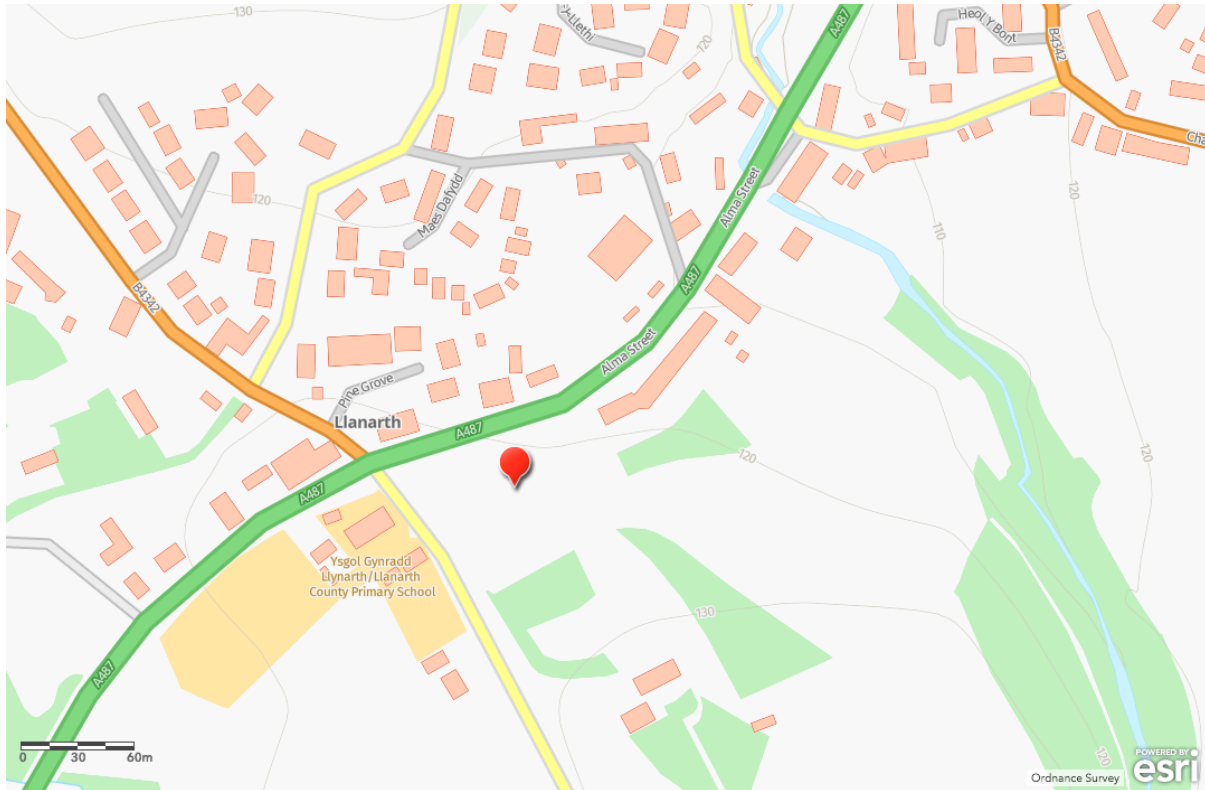
1684-ACS-ZZ-XX-RP-T-001-A Transport Statement.docx

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## 1 Introduction

1.1 Acstro has been appointed by Obsidian Developments Limited to prepare a Transport Statement in respect to the proposed development of 37 homes on land adjacent to Gwynfryn, Llanarth, Ceredigion. The site's general location is shown in Figure 1 below.



**Figure 1 Location Plan**

1.2 This document considers the transport implications of the proposed development. It demonstrates that the site is in a sustainable location that is closely related to existing facilities and services and is accessible to pedestrians, cyclists and public transport users. It is also demonstrated that safe vehicular access to the site can be provided and adequate parking provision is made for the future occupiers and users of the site. The structure of the Transport Statement is as follows:

- Section 2 describes the relevant planning policy context that is relevant in terms of transport issues;
- Section 3 describes the site's location, its proximity to services and facilities and its accessibility by all forms of transport.
- Section 4 describes the proposed development and its access arrangements. An estimate of the likely trip generation of the proposed development of the land is also provided.
- Section 5 provides a summary and conclusion.

## 2 Policy Context

### [Future Wales - The National Plan 2040](#)

- 2.1 This is the national development framework that sets out the direction for development in Wales to 2040.
- 2.2 Policies 11 and 12 relate to national and regional connectivity, respectively. These seek to encourage longer-distance trips to be made by public transport, while also making longer journeys possible by electric vehicles. In urban areas, to support sustainable growth and regeneration, the priorities are improving and integrating active travel and public transport. In rural areas the priorities are supporting the uptake of ultra-low emission vehicles and diversifying and sustaining local bus services. Active travel must be an essential and integral component of all new developments.
- 2.3 Planning authorities must act to reduce levels of car parking in urban areas, including supporting car-free developments in accessible locations and developments with car parking spaces that allow them to be converted to other uses over time. Where car parking is provided for new non-residential development, planning authorities should seek a minimum of 10% of car parking spaces to have electric vehicle charging points.

### [Planning Policy Wales \(11<sup>th</sup> Edition\)](#)

- 2.4 Planning Policy Wales (PPW) sets out the land use planning policies of the Welsh Government. The primary objective of PPW is to ensure that the planning system contributes towards the delivery of sustainable development and improves the social, economic, environmental and cultural well-being of Wales.
- 2.5 In terms of transport related policies paragraph 4.1.1 states that “the planning system should enable people to access jobs and services through shorter, more efficient and sustainable journeys, by walking, cycling and public transport”.
- 2.6 Paragraph 4.1.10 states that “the planning system has a key role to play in reducing the need to travel and supporting sustainable transport, by facilitating developments which:
  - are sited in the right locations, where they can be easily accessed by sustainable modes of travel and without the need for a car;
  - are designed in a way which integrates them with existing land uses and neighbourhoods; and
  - make it possible for all short journeys within and beyond the development to be easily made by walking and cycling.”
- 2.7 PPW advocates a sustainable transport hierarchy for planning, the hierarchy being, from top to bottom:
  - Walking and Cycling
  - Public Transport
  - Ultra Low Emission Vehicles
  - Other Private Motor Vehicles
- 2.8 It is Welsh Government policy to require the use of a sustainable transport hierarchy in relation to new development, which prioritises walking, cycling and public transport ahead of the private motor vehicles.

- 2.9 The transport hierarchy recognises that Ultra Low Emission Vehicles (ULEV) also have an important role to play in the decarbonisation of transport, particularly in rural areas with limited public transport services. To this end the provision of ULEV charging points is encouraged within new developments.
- 2.10 PPW recommends (4.1.50) that “a design-led approach to the provision of car parking should be taken, which ensures an appropriate level of car parking is integrated in a way which does not dominate the development. Parking provision should be informed by the local context, including public transport accessibility, urban design principles and the objective of reducing reliance on the private car and supporting a modal shift to walking, cycling and public transport. Planning authorities must support schemes which keep parking levels down, especially off-street parking, when well designed”.

#### TAN18 Transportation

- 2.11 Planning Policy Wales Technical Advice Note 18 (TAN18) details the Welsh Government Government’s policies in terms of transportation and repeats the general principles advocated in PPW i.e. that development is encouraged in sustainable, accessible, locations that will reduce the need to travel by car. Its aim is to promote an efficient and sustainable transport system and to counter the negative impacts associated with road traffic growth, for example increased air pollution, green house gases and congestion (2.1). It sees the integration of transport and land use planning as key (2.3) in achieving the Welsh Government Governments’ sustainable development policy objectives by:
- promoting travel efficient settlement patterns;
  - ensuring new development is located where there is good access by public transport, walking and cycling thereby minimizing the need for travel and fostering social inclusion;
  - managing parking provision;
  - ensuring that new development includes appropriate provision for pedestrians, cycling, public transport, and traffic management and parking/servicing;
  - encouraging the location of development near other related uses to encourage multi-purpose trips; and
  - ensuring that transport infrastructure necessary to serve new development allows existing transport networks to continue to perform their identified functions.
- 2.12 The needs of walkers and cyclists must be taken into consideration and the use of these most sustainable forms of transport encouraged in all developments (TAN18 Chapter 6). Similarly, all development should be accessible by public transport (Chapter 7).

#### Ceredigion Local Development Plan (2007 - 2021)

- 2.13 The following policies are considered relevant in terms of the access, highway and sustainable transport considerations for this development.
- 2.14 Policy DM03 encourages sustainable travel and requires that
- “Development should minimize the need to travel, provide opportunity for and promote sustainable modes of transport in Ceredigion.*
- Parking provision for all modes of transport should be in accordance with Ceredigion SPG. based on the Wales Parking Standards 2008 as amended to meet local conditions.*

*A Transport Assessment should be provided at the thresholds set out in SPG. Where the TA reveals the need for a Transport Implementation Strategy this will need to be secured through a planning obligation.”*

- 2.15 Policy DM05 relates to sustainable development and planning gain and states that, planning obligations securing financial or on-site provision will, where appropriate, be sought in relation to sustainable travel infrastructure proportionate to the needs arising from the development.

[Supplementary Planning Guidance – Car Parking Standards \(2017\)](#)

- 2.16 The Supplementary Planning Guidance (SPG) sets out the approach to be adopted in determining the appropriate level of parking provision within new development. The SPG is based on the CSS Wales – Wales Parking standards 2008, which sets out parking provision maxima based on the development type and location. The SPG describes six location types or zones of development, each with differing levels of accessibility to services and sustainable modes of travel.
- 2.17 It is specified that developments in Llanarth should be classed as being in zone 4 (suburban/near urban) or 5 (countryside).
- 2.18 For residential developments in zones 4 or 5 car parking provision of one space per bedroom is recommended (up to a maximum of 3 spaces per dwelling). One visitor parking space per 5 properties is also recommended.

### 3 Existing Conditions

- 3.1 The site is currently undeveloped and is located to the south of the A487 trunk road and east of the C1111 County Road, opposite the village's primary school.

#### Proximity to Services and Accessibility

- 3.2 Llanarth has a number of amenities, including a primary school, convenience store, public house, garden centre and village hall. There is also a petrol filling station with an associated convenience store that also accommodates a post office.
- 3.3 The village therefore provides a good selection of services and facilities that can be accessed by residents.
- 3.4 A broader range of amenities is available in Aberaeron, some 5km to the north

#### Active Travel

- 3.5 The Chartered Institution of Highways and Transportation's (CIHT) 'Planning for Walking' (2015) states that "Across Britain about 80 per cent of journeys shorter than 1 mile (1.6km) are made wholly on foot – something that has changed little in thirty years. In 2012 walkers accounted for 79 per cent of all journeys shorter than 1 mile, but beyond that distance cars are the dominant mode (DfT, annual)". It is considered that 2km, a distance that can be walked in around 25 to 30 minutes, represents a reasonable distance to expect that walking can be a viable option.
- 3.6 Figure 2 indicates the areas that can be reached on foot within around 10 minutes of the site. It shows that all of the village's amenities are within a short and easy walk of the site.

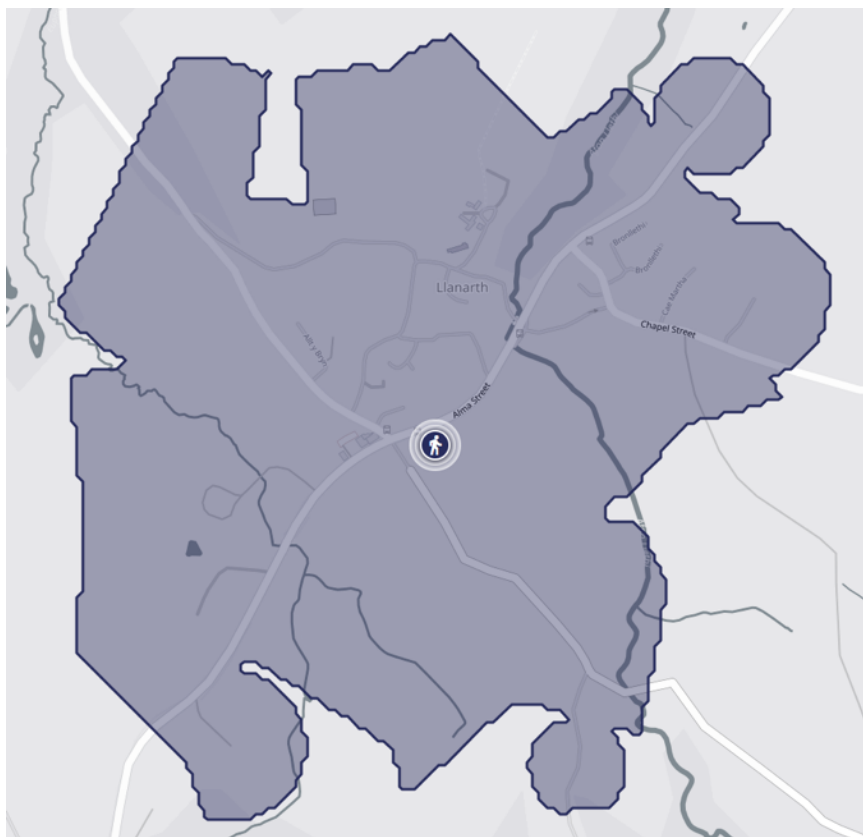


Figure 2 10-Minute Walk Catchment

- 3.7 The site will be accessed from the C1111 County Road on its western border. There are currently no segregated footways on this side of the C1111. A new section of footway will be provided as part of the development, linking it to the existing footways that run along the A487.
- 3.8 The Chartered Institution of Highways and Transportation's 'Planning for Cycling' (2014) states that 'cycle use is more seasonal than for other modes, with up to twice as many cyclists in summer compared with winter. The majority of cycling trips are for short distances, with 80% being less than five miles (8km) and with 40% being less than two miles (3km). However, the majority of trips by all modes are also short distances (67% are less than five miles, and 38% are less than two miles); therefore, the bicycle is a potential mode for many of these trips (National Travel Survey, 2013, Department for Transport)'.

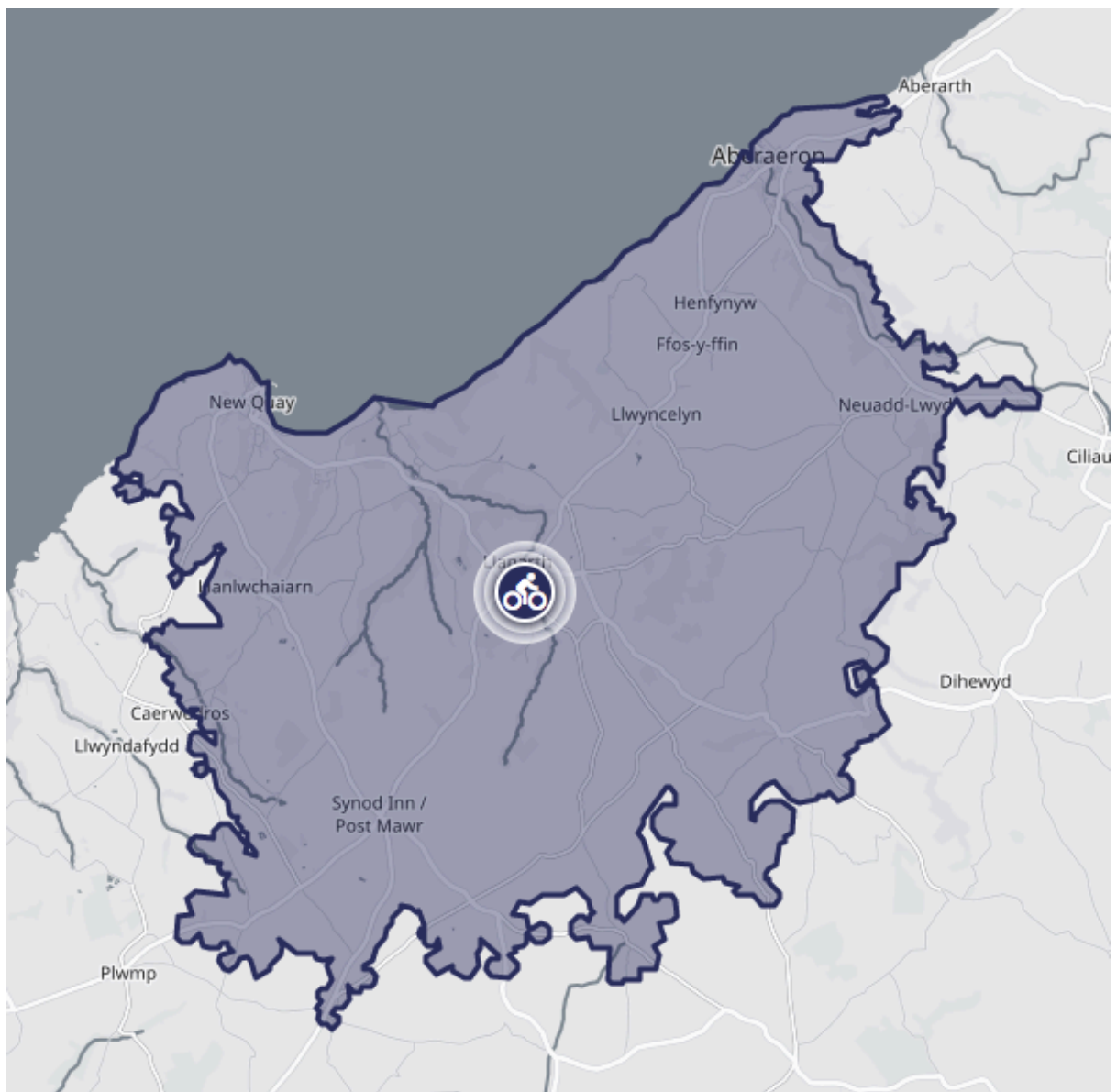


Figure 3 30-Minute Cycle Catchment



- 3.9 Figure 3 shows the areas that can be reached within a 30-minute cycle ride from the site. This catchment area includes Aberaeron and New Quay.

#### Public Transport Network

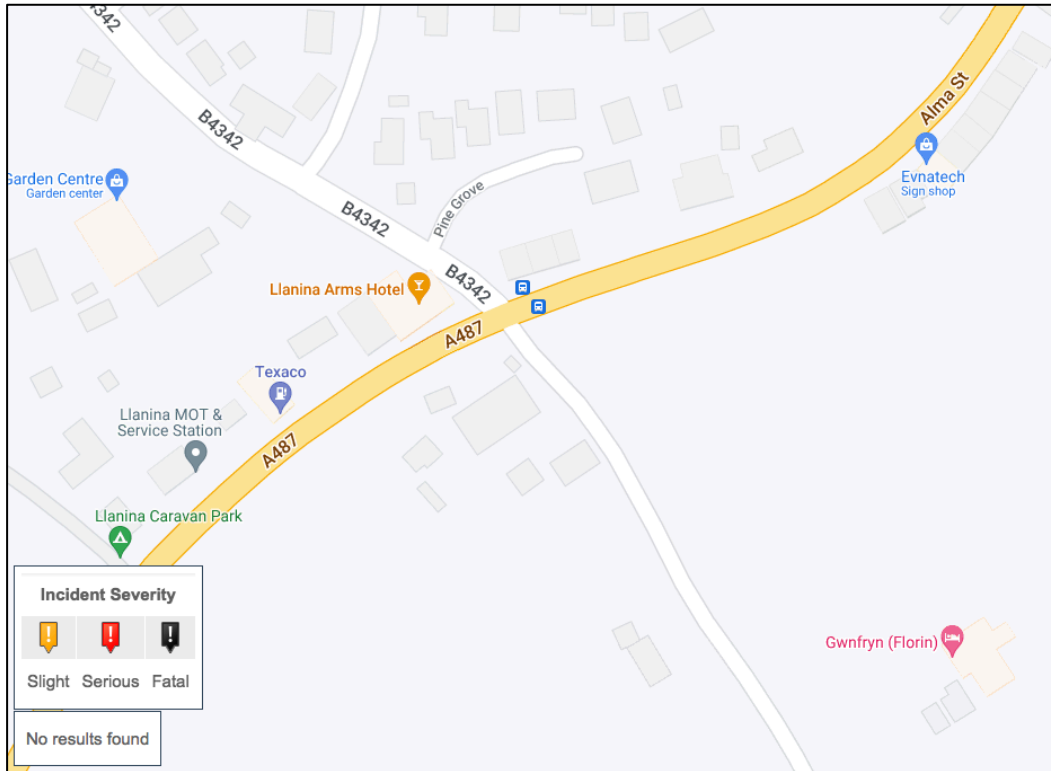
- 3.10 There are bus stops at the site's north western corner on the A487 (Llanina Arms Stops). They provide access to the T5 and X50 bus services.
- 3.11 The T5 service (Haverfordwest – Aberystwyth) runs approximately 12 times per day in each direction, on Mondays to Saturdays. The X50 service (Aberaeron – Cardigan) runs once a day in each direction (Mondays to Saturdays) with an additional service towards Cardigan on College days.

#### Highway Network

- 3.12 The site will be accessed from the C1111 County Road that lies on its western boundary. The C1111 has the characteristics of a country lane. Its carriageway is approximately 4.5m to 5m wide and there are no segregated footways.
- 3.13 The primary school is located opposite the application site and is accessed from the C1111. There is a car park to the south of the school used by school staff and parents. There are zig-zag keep clear road markings in front of the school and a 20mph speed limit applies.
- 3.14 The C1111 joins the A487, forming a crossroad junction with the B4342 that joins from the north. The A487 is a restricted road that is currently subject to a 30mph speed limit and carries some 8,670 vehicle movements per day<sup>1</sup>. In September 2023 the default speed limit for restricted roads in Wales will become 20mph.
- 3.15 A review of injury accident records for the area around the site has been undertaken for latest five-year period for which data is available (2017 – 2021 inclusive). There are no recorded injury accidents at or near to the A487 / B4342 / C1111 crossroads, indicating that the junction operates safely.

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<sup>1</sup> <https://roadtraffic.dft.gov.uk/manualcountpoints/20564> 2019 AADT



**Figure 4 Injury Accident Location & Severity**

Summary

3.16 The site is in a sustainable and accessible location. The site is, or can be made, accessible to pedestrians, cyclists and public transport users. This increases the possibility that journeys generated by the development can be made by sustainable forms of transport. The highway network serving the site has a good safety record.

## 4 Proposed Development

- 4.1 The planning application is for the construction of 37 homes, including 8 affordable homes.



**Figure 5 Proposed Development**

- 4.2 The site's access arrangements are shown in Appendix 1.

*Appendix 1 Proposed Access Arrangement*

### Access & Parking

- 4.3 A new junction onto the C1111 will provide access to the site. The site access will be to an adoptable standard providing a 5.5m wide carriageway with 2m footways on both sides. A turning areas capable of accommodating a refuse vehicle will be provided within the development.
- 4.4 From the site's access, visibility splays measuring 2.4m x 25m will be provided, as per the design guidance requirements for priority junctions within 20mph speed limit areas.
- 4.5 A new section of segregated footway will be provided along the eastern side of the C1111 between the site access and the A487, linking to the existing footway provision alongside the A487. This allows for safe pedestrian movement to and from the site.
- 4.6 The block layout of the scheme has been designed to create a permeable and well connected development. A single primary route flows through the scheme.
- 4.7 The primary route through the scheme forms the spine road and is formed of a 5.5m carriageway and 2m footways either side in accordance with highway standards.

- 4.8 The secondary routes (private driveways) follow on from turning heads and generally consist of shared surface materials. These are only used by the residents so the width varies from 3-6m. All roads will be sized to allow cars reversing out of spaces to do so safely.
- 4.9 Private drives allow properties to front onto and overlook green spaces. As these are non-adoptable spaces, a maximum of 5 properties will be accessed from one driveway.
- 4.10 A pedestrian route will follow each road within the scheme and link to a dedicated pedestrian access point onto Alma Street along the northern reaches of the site. A separate pedestrian access to the A487 will also be provided at the site’s northern boundary.
- 4.11 Parking is provided at one space per bedroom up to a maximum of three spaces per dwelling. Four visitor car parking spaces are provided near the site’s entrance. Additional visitor parking can be accommodated on-street throughout the development.

Trip Generation

- 4.12 The potential trip generation of the proposed development of the sites has been estimated by reference to the TRICS trip rate database, a database of over 8,000 traffic surveys of various types of development throughout the UK and Ireland.
- 4.13 From the TRICS database evidence of the trip rates of privately owned housing developments in suburban and edge of town locations in mainland Britain (excluding Greater London) have been analysed. The detailed TRICS output is provided as Appendix 2 and summarised in the following tables.

*Appendix 2 TRICS Trip Rate Data*

Time Range	Trip Rate per Dwelling			Trip Generation (37 Dwellings)		
	Arrivals	Departures	Total	Arrivals	Departures	Total
am peak Hour 08:00-09:00	0.137	0.37	0.507	5	14	19
pm Peak Hour 17:00-18:00	0.341	0.16	0.501	13	6	19

**Table 1 Vehicle Trip Rates & Proposed Development Trip Generation**

- 4.14 The TRICS data suggests that the site has the potential to generate around 19 peak hour vehicle movements. This equates to no more than one additional vehicle movement every 3 minutes on average during the busiest hours and is not considered to be significant.

## 5 Summary & Conclusion

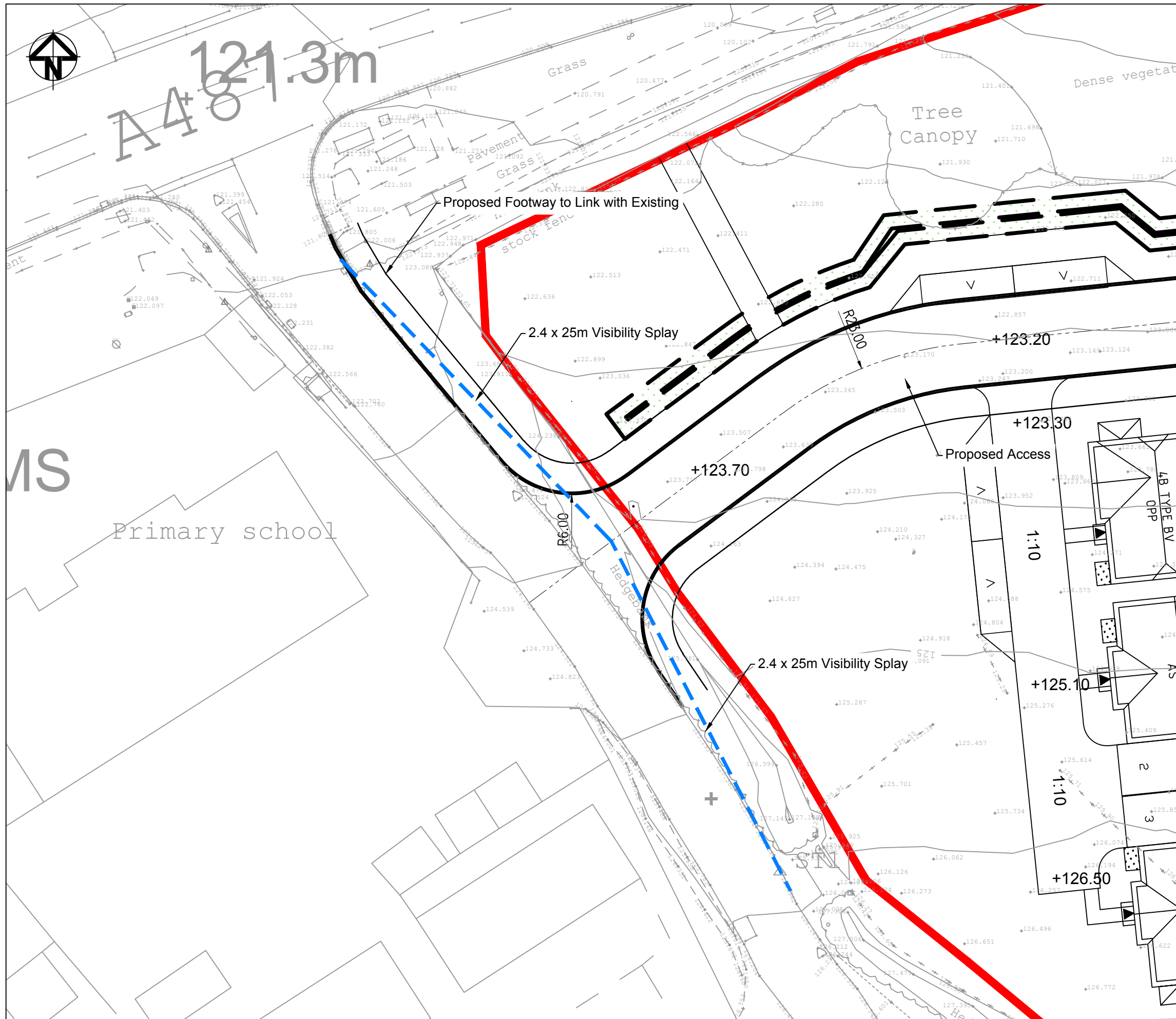
5.1 In summary this Transport Statement has demonstrated that:


- The site is accessible to pedestrians, cyclists and public transport users meaning that users of the development will not be reliant on the car.
- The proposed development is for 37 new homes.
- The proposed development will be served by an access that meets adoptable standards, providing a safe means of access to all users of the development
- Car parking provision meets the requirements of the Council's Parking Standards.
- The development will generate an estimates 19 peak hour vehicle movements. This is not considered to be significant.

5.2 It is considered that the site meets planning policy requirements in terms of being in an appropriate location that is safely accessible by all forms of transport and that the impacts of the development on the continued operation and safety of the surrounding highway network would be acceptable.

5.3 It is concluded therefore that there are no transport related issues that should prevent planning permission for the proposed development.

# Appendix 1 Proposed Access Arrangement



A	First Issue	24-07-23
 Unit 19, Yr Hen Farchnad, Carmarthen Street, Llandeilo SA19 6BJ E-mail: <a href="mailto:mail@acstro.com">mail@acstro.com</a> <a href="http://www.acstro.com">www.acstro.com</a> Tel: 01558 824021		
Project	<b>LLANARTH CEREDIGION</b>	
Drawing	<b>PROPOSED ACCESS</b>	
Drawing No.	<b>1684-ACS-XX-ZZ-DR-T-001-A</b>	
Scale	<b>1:250 @ A3</b>	

## Appendix 2 TRICS Trip Rate Data



Calculation Reference: AUDIT-648801-221207-1248

## TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

02	SOUTH EAST	
	BO BEDFORD	1 days
	CT CENTRAL BEDFORDSHIRE	1 days
	ES EAST SUSSEX	4 days
	EX ESSEX	2 days
	HC HAMPSHIRE	8 days
	HF HERTFORDSHIRE	2 days
	KC KENT	5 days
	MW MEDWAY	1 days
	SC SURREY	3 days
	SP SOUTHAMPTON	1 days
	WS WEST SUSSEX	5 days
03	SOUTH WEST	
	BC BOURNEMOUTH CHRISTCHURCH & POOLE	1 days
	DC DORSET	1 days
	DV DEVON	2 days
	SD SWINDON	1 days
	SM SOMERSET	1 days
	TB TORBAY	1 days
04	EAST ANGLIA	
	NF NORFOLK	10 days
	PB PETERBOROUGH	1 days
	SF SUFFOLK	3 days
05	EAST MIDLANDS	
	DY DERBY	1 days
	LN LINCOLNSHIRE	1 days
	NT NOTTINGHAMSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	ST STAFFORDSHIRE	3 days
	WK WARWICKSHIRE	2 days
	WM WEST MIDLANDS	1 days
	WO WORCESTERSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	3 days
08	NORTH WEST	
	AC CHESHIRE WEST & CHESTER	1 days
	EC CHESHIRE EAST	1 days
	LC LANCASHIRE	1 days
09	NORTH	
	CB CUMBRIA	1 days
	DH DURHAM	2 days
10	WALES	
	PS POWYS	2 days
	VG VALE OF GLAMORGAN	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 Dwellings  
Actual Range: 8 to 371 (units: )  
Range Selected by User: 6 to 400 (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: 01/01/14 to 30/06/22

*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	18 days
Tuesday	13 days
Wednesday	23 days
Thursday	15 days
Friday	9 days

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

Selected survey types:

Manual count	72 days
Directional ATC Count	6 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	7
Suburban Area (PPS6 Out of Centre)	14
Edge of Town	57

*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	72
Village	1
Out of Town	3
No Sub Category	2

*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:

C3 78 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

## Secondary Filtering selection (Cont.):

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	5 days
5,001 to 10,000	18 days
10,001 to 15,000	26 days
15,001 to 20,000	10 days
20,001 to 25,000	10 days
25,001 to 50,000	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	14 days
25,001 to 50,000	7 days
50,001 to 75,000	9 days
75,001 to 100,000	12 days
100,001 to 125,000	2 days
125,001 to 250,000	25 days
250,001 to 500,000	9 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	21 days
1.1 to 1.5	53 days
1.6 to 2.0	3 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	32 days
No	46 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	77 days
2 Poor	1 days

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

Covid-19 Restrictions	Yes	At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions
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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	BC-03-A-02	BUNGALOWS		BOURNEMOUTH CHRISTCHURCH & POOLE
	HURSTDENE ROAD			
	BOURNEMOUTH			
	CASTLE LANE WEST			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	28		
	Survey date: MONDAY	24/03/14		Survey Type: MANUAL
3	BO-03-A-01	DETACHED HOUSES		BEDFORD
	CARNOUSTIE DRIVE			
	BEDFORD			
	GREAT DENHAM			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	30		
	Survey date: THURSDAY	15/10/20		Survey Type: MANUAL
4	CB-03-A-05	DETACHED/TERRACED HOUSING		CUMBRIA
	MACADAM WAY			
	PENRITH			
	Edge of Town Centre			
	Residential Zone			
	Total No of Dwellings:	50		
	Survey date: TUESDAY	21/06/16		Survey Type: MANUAL
5	CT-03-A-01	MIXED HOUSES		CENTRAL BEDFORDSHIRE
	ARLESEY ROAD			
	STOTFOLD			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:	46		
	Survey date: WEDNESDAY	22/06/22		Survey Type: MANUAL
6	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
7	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

LIST OF SITES relevant to selection parameters (Cont.)

8	DH-03-A-03 PILGRIMS WAY DURHAM	SEMI -DETACHED & TERRACED	DURHAM
	Edge of Town Residential Zone Total No of Dwellings: 57 <i>Survey date: FRIDAY 19/10/18</i>		<i>Survey Type: MANUAL</i>
9	DV-03-A-02 MILLHEAD ROAD HONITON	HOUSES & BUNGALOWS	DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 116 <i>Survey date: FRIDAY 25/09/15</i>		<i>Survey Type: MANUAL</i>
10	DV-03-A-03 LOWER BRAND LANE HONITON	TERRACED & SEMI DETACHED	DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 70 <i>Survey date: MONDAY 28/09/15</i>		<i>Survey Type: MANUAL</i>
11	DY-03-A-01 RADBOURNE LANE DERBY	MIXED HOUSES	DERBY
	Edge of Town Residential Zone Total No of Dwellings: 371 <i>Survey date: TUESDAY 10/07/18</i>		<i>Survey Type: MANUAL</i>
12	EC-03-A-06 GREYSTOKE ROAD MACCLESFIELD HURDSFIELD	TERRACED HOUSES	CHESHIRE EAST
	Edge of Town Residential Zone Total No of Dwellings: 24 <i>Survey date: MONDAY 24/11/14</i>		<i>Survey Type: MANUAL</i>
13	ES-03-A-03 SHEPHAM LANE POLEGATE	MIXED HOUSES & FLATS	EAST SUSSEX
	Edge of Town Residential Zone Total No of Dwellings: 212 <i>Survey date: MONDAY 11/07/16</i>		<i>Survey Type: MANUAL</i>
14	ES-03-A-04 NEW LYDD ROAD CAMBER	MIXED HOUSES & FLATS	EAST SUSSEX
	Edge of Town Residential Zone Total No of Dwellings: 134 <i>Survey date: FRIDAY 15/07/16</i>		<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

15	ES-03-A-05 RATTLE ROAD NEAR EASTBOURNE STONE CROSS Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	MIXED HOUSES & FLATS	99 05/06/19	EAST SUSSEX	<i>Survey Type: MANUAL</i>
16	ES-03-A-07 NEW ROAD HAILSHAM HELLINGLY Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: THURSDAY</i>	MIXED HOUSES & FLATS	91 07/11/19	EAST SUSSEX	<i>Survey Type: MANUAL</i>
17	EX-03-A-02 MANOR ROAD CHIGWELL GRANGE HILL Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	DETACHED & SEMI-DETACHED	97 27/11/17	ESSEX	<i>Survey Type: MANUAL</i>
18	EX-03-A-03 KESTREL GROVE RAYLEIGH  Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	MIXED HOUSES	123 27/09/21	ESSEX	<i>Survey Type: MANUAL</i>
19	HC-03-A-21 PRIESTLEY ROAD BASINGSTOKE HOUNDMILLS Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: TUESDAY</i>	TERRACED & SEMI-DETACHED	39 13/11/18	HAMPSHIRE	<i>Survey Type: MANUAL</i>
20	HC-03-A-22 BOW LAKE GARDENS NEAR EASTLEIGH BISHOPSTOKE Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	MIXED HOUSES	40 31/10/18	HAMPSHIRE	<i>Survey Type: MANUAL</i>
21	HC-03-A-23 CANADA WAY LIPHOOK  Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: TUESDAY</i>	HOUSES & FLATS	62 19/11/19	HAMPSHIRE	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

22	HC-03-A-24 STONEHAM LANE EASTLEIGH	MIXED HOUSES & FLATS	HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 243 <i>Survey date: WEDNESDAY 10/11/21</i>		<i>Survey Type: MANUAL</i>
23	HC-03-A-26 BOTLEY ROAD WHITELEY	MIXED HOUSES & FLATS	HAMPSHIRE
	Edge of Town Out of Town Total No of Dwellings: 270 <i>Survey date: THURSDAY 24/06/21</i>		<i>Survey Type: MANUAL</i>
24	HC-03-A-27 DAIRY ROAD ANDOVER	MIXED HOUSES	HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 73 <i>Survey date: TUESDAY 16/11/21</i>		<i>Survey Type: MANUAL</i>
25	HC-03-A-28 EAGLE AVENUE WATERLOOVILLE LOVEDEAN	MIXED HOUSES & FLATS	HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 125 <i>Survey date: MONDAY 08/11/21</i>		<i>Survey Type: MANUAL</i>
26	HC-03-A-29 CROW LANE RINGWOOD CROW	MIXED HOUSES & FLATS	HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 195 <i>Survey date: THURSDAY 30/06/22</i>		<i>Survey Type: MANUAL</i>
27	HF-03-A-03 HARE STREET ROAD BUNTINGFORD	MIXED HOUSES	HERTFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 160 <i>Survey date: MONDAY 08/07/19</i>		<i>Survey Type: MANUAL</i>
28	HF-03-A-04 HOLMSIDE RISE WATFORD SOUTH OXHEY	TERRACED HOUSES	HERTFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 8 <i>Survey date: TUESDAY 08/06/21</i>		<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

29	KC-03-A-03 HYTHE ROAD ASHFORD WILLESBOROUGH Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 51 <i>Survey date: THURSDAY 14/07/16</i>	MI XED HOUSES & FLATS	KENT	<i>Survey Type: MANUAL</i>
30	KC-03-A-04 KILN BARN ROAD AYLESFORD DITTON Edge of Town Residential Zone Total No of Dwellings: 110 <i>Survey date: FRIDAY 22/09/17</i>	SEMI -DETACHED & TERRACED	KENT	<i>Survey Type: MANUAL</i>
31	KC-03-A-06 MARGATE ROAD HERNE BAY  Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 363 <i>Survey date: WEDNESDAY 27/09/17</i>	MI XED HOUSES & FLATS	KENT	<i>Survey Type: MANUAL</i>
32	KC-03-A-07 RECVLVER ROAD HERNE BAY  Edge of Town Residential Zone Total No of Dwellings: 288 <i>Survey date: WEDNESDAY 27/09/17</i>	MI XED HOUSES	KENT	<i>Survey Type: MANUAL</i>
33	KC-03-A-09 WESTERN LINK FAVERSHAM DAVINGTON Edge of Town Residential Zone Total No of Dwellings: 14 <i>Survey date: WEDNESDAY 09/06/21</i>	MI XED HOUSES & FLATS	KENT	<i>Survey Type: MANUAL</i>
34	LC-03-A-31 GREENSIDE PRESTON COTTAM Edge of Town Residential Zone Total No of Dwellings: 32 <i>Survey date: FRIDAY 17/11/17</i>	DETACHED HOUSES	LANCASHIRE	<i>Survey Type: MANUAL</i>
35	LN-03-A-04 EGERTON ROAD LINCOLN  Edge of Town Centre Residential Zone Total No of Dwellings: 30 <i>Survey date: MONDAY 29/06/15</i>	DETACHED & SEMI -DETACHED	LINCOLNSHIRE	<i>Survey Type: MANUAL</i>



LIST OF SITES relevant to selection parameters (Cont.)

36	MW-03-A-02	MIXED HOUSES		MEDWAY
	OTTERHAM QUAY LANE RAINHAM			
	Edge of Town Residential Zone			
	Total No of Dwellings:		19	
	<i>Survey date: MONDAY</i>		<i>06/06/22</i>	<i>Survey Type: MANUAL</i>
37	NE-03-A-03	PRIVATE HOUSES		NORTH EAST LINCOLNSHIRE
	STATION ROAD SCUNTHORPE			
	Edge of Town Centre Residential Zone			
	Total No of Dwellings:		180	
	<i>Survey date: TUESDAY</i>		<i>20/05/14</i>	<i>Survey Type: MANUAL</i>
38	NF-03-A-03	DETACHED HOUSES		NORFOLK
	HALING WAY THETFORD			
	Edge of Town Residential Zone			
	Total No of Dwellings:		10	
	<i>Survey date: WEDNESDAY</i>		<i>16/09/15</i>	<i>Survey Type: MANUAL</i>
39	NF-03-A-06	MIXED HOUSES		NORFOLK
	BEAUFORT WAY GREAT YARMOUTH BRADWELL			
	Edge of Town Residential Zone			
	Total No of Dwellings:		275	
	<i>Survey date: MONDAY</i>		<i>23/09/19</i>	<i>Survey Type: MANUAL</i>
40	NF-03-A-07	MIXED HOUSES & FLATS		NORFOLK
	SILFIELD ROAD WYMONDHAM			
	Edge of Town Out of Town			
	Total No of Dwellings:		297	
	<i>Survey date: FRIDAY</i>		<i>20/09/19</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
41	NF-03-A-10	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD HUNSTANTON			
	Edge of Town Residential Zone			
	Total No of Dwellings:		17	
	<i>Survey date: WEDNESDAY</i>		<i>12/09/18</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
42	NF-03-A-16	MIXED HOUSES & FLATS		NORFOLK
	NORWICH COMMON WYMONDHAM			
	Edge of Town Residential Zone			
	Total No of Dwellings:		138	
	<i>Survey date: TUESDAY</i>		<i>20/10/15</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
43	NF-03-A-24	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD HUNSTANTON			
	Edge of Town Residential Zone			
	Total No of Dwellings:		127	
	<i>Survey date: WEDNESDAY</i>		<i>22/09/21</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>

LIST OF SITES relevant to selection parameters (Cont.)

44	NF-03-A-25	MIXED HOUSES & FLATS		NORFOLK
	WOODFARM LANE GORLESTON-ON-SEA			
	Edge of Town Residential Zone Total No of Dwellings: 55			
	<i>Survey date: TUESDAY</i>		<i>21/09/21</i>	<i>Survey Type: MANUAL</i>
45	NF-03-A-26	MIXED HOUSES		NORFOLK
	HEATH DRIVE HOLT			
	Edge of Town Residential Zone Total No of Dwellings: 91			
	<i>Survey date: WEDNESDAY</i>		<i>22/09/21</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
46	NF-03-A-28	MIXED HOUSES		NORFOLK
	NORTH WALSHAM ROAD NORTH WALSHAM			
	Edge of Town Residential Zone Total No of Dwellings: 100			
	<i>Survey date: WEDNESDAY</i>		<i>22/09/21</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
47	NF-03-A-30	MIXED HOUSES		NORFOLK
	BRANDON ROAD SWAFFHAM			
	Edge of Town Residential Zone Total No of Dwellings: 266			
	<i>Survey date: THURSDAY</i>		<i>23/09/21</i>	<i>Survey Type: MANUAL</i>
48	NT-03-A-08	DETACHED HOUSES		NOTTINGHAMSHIRE
	WIGHAY ROAD HUCKNALL			
	Edge of Town Residential Zone Total No of Dwellings: 36			
	<i>Survey date: MONDAY</i>		<i>18/10/21</i>	<i>Survey Type: MANUAL</i>
49	NY-03-A-12	TOWN HOUSES		NORTH YORKSHIRE
	RACECOURSE LANE NORTHALLERTON			
	Edge of Town Centre Residential Zone Total No of Dwellings: 47			
	<i>Survey date: TUESDAY</i>		<i>27/09/16</i>	<i>Survey Type: MANUAL</i>
50	NY-03-A-13	TERRACED HOUSES		NORTH YORKSHIRE
	CATTERICK ROAD CATTERICK GARRISON OLD HOSPITAL COMPOUND Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 10			
	<i>Survey date: WEDNESDAY</i>		<i>10/05/17</i>	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

51	NY-03-A-14 PALACE ROAD RIPON	DETACHED & BUNGALOWS		NORTH YORKSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		45	
	<i>Survey date: WEDNESDAY</i>		<i>18/05/22</i>	<i>Survey Type: MANUAL</i>
52	PB-03-A-04 EASTFIELD ROAD PETERBOROUGH	DETACHED HOUSES		PETERBOROUGH
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings:		28	
	<i>Survey date: MONDAY</i>		<i>17/10/16</i>	<i>Survey Type: MANUAL</i>
53	PS-03-A-01 BRYN GLAS WELSHPOOL	MIXED HOUSES		POWYS
	Edge of Town Centre Residential Zone Total No of Dwellings:		16	
	<i>Survey date: MONDAY</i>		<i>11/05/15</i>	<i>Survey Type: MANUAL</i>
54	PS-03-A-02 GUNROG ROAD WELSHPOOL	DETACHED/SEMI-DETACHED		POWYS
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings:		28	
	<i>Survey date: MONDAY</i>		<i>11/05/15</i>	<i>Survey Type: MANUAL</i>
55	SC-03-A-04 HIGH ROAD BYFLEET	DETACHED & TERRACED		SURREY
	Edge of Town Residential Zone Total No of Dwellings:		71	
	<i>Survey date: THURSDAY</i>		<i>23/01/14</i>	<i>Survey Type: MANUAL</i>
56	SC-03-A-05 REIGATE ROAD HORLEY	MIXED HOUSES		SURREY
	Edge of Town Residential Zone Total No of Dwellings:		207	
	<i>Survey date: MONDAY</i>		<i>01/04/19</i>	<i>Survey Type: MANUAL</i>
57	SC-03-A-07 FOLLY HILL FARNHAM	MIXED HOUSES		SURREY
	Edge of Town Residential Zone Total No of Dwellings:		41	
	<i>Survey date: WEDNESDAY</i>		<i>11/05/22</i>	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

58	SD-03-A-01 HEADLANDS GROVE SWINDON	SEMI DETACHED		SWINDON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 27 <i>Survey date: THURSDAY 22/09/16</i>			
59	SF-03-A-05 VALE LANE BURY ST EDMUNDS	DETACHED HOUSES		SUFFOLK
	Edge of Town Residential Zone Total No of Dwellings: 18 <i>Survey date: WEDNESDAY 09/09/15</i>			
60	SF-03-A-09 FOXHALL ROAD IPSWICH	MIXED HOUSES & FLATS		SUFFOLK
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 179 <i>Survey date: THURSDAY 24/06/21</i>			
61	SF-03-A-10 LOVETOFTS DRIVE IPSWICH WHITEHOUSE	TERRACED & SEMI-DETACHED		SUFFOLK
	Edge of Town Residential Zone Total No of Dwellings: 149 <i>Survey date: TUESDAY 22/06/21</i>			
62	SH-03-A-06 ELLESMERE ROAD SHREWSBURY	BUNGALOWS		SHROPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 16 <i>Survey date: THURSDAY 22/05/14</i>			
63	SM-03-A-01 WEMBDON ROAD BRIDGWATER NORTHFIELD	DETACHED & SEMI		SOMERSET
	Edge of Town Residential Zone Total No of Dwellings: 33 <i>Survey date: THURSDAY 24/09/15</i>			
64	SP-03-A-02 BARNFIELD WAY NEAR SOUTHAMPTON HEDGE END	MIXED HOUSES & FLATS		SOUTHAMPTON
	Edge of Town Out of Town Total No of Dwellings: 250 <i>Survey date: TUESDAY 12/10/21</i>			
65	ST-03-A-06 STANFORD ROAD WOLVERHAMPTON BLAKENHALL	SEMI-DET. & TERRACED		STAFFORDSHIRE
	Edge of Town Centre No Sub Category Total No of Dwellings: 17 <i>Survey date: FRIDAY 09/05/14</i>			

LIST OF SITES relevant to selection parameters (Cont.)

66	ST-03-A-07 BEACONSIDE STAFFORD MARSTON GATE Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	DETACHED & SEMI -DETACHED      248 22/11/17	STAFFORDSHIRE	<i>Survey Type: MANUAL</i>
67	ST-03-A-08 SILKMORE CRESCENT STAFFORD MEADOWCROFT PARK Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	DETACHED HOUSES      26 22/11/17	STAFFORDSHIRE	<i>Survey Type: MANUAL</i>
68	TB-03-A-01 BRONSHILL ROAD TORQUAY  Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	TERRACED HOUSES      37 30/09/15	TORBAY	<i>Survey Type: MANUAL</i>
69	VG-03-A-01 ARTHUR STREET BARRY  Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	SEMI -DETACHED & TERRACED      12 08/05/17	VALE OF GLAMORGAN	<i>Survey Type: MANUAL</i>
70	WK-03-A-03 BRESE AVENUE WARWICK GUYS CLIFFE Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	DETACHED HOUSES      23 25/09/19	WARWICKSHIRE	<i>Survey Type: MANUAL</i>
71	WK-03-A-04 DALEHOUSE LANE KENILWORTH  Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: FRIDAY</i>	DETACHED HOUSES      49 27/09/19	WARWICKSHIRE	<i>Survey Type: MANUAL</i>
72	WM-03-A-05 COUNDON ROAD COVENTRY  Edge of Town Centre Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	TERRACED & DETACHED      89 21/11/16	WEST MIDLANDS	<i>Survey Type: MANUAL</i>
73	WO-03-A-07 RYE GRASS LANE REDDITCH  Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: THURSDAY</i>	MIXED HOUSES & FLATS      47 01/10/20	WORCESTERSHIRE	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

74	WS-03-A-04	MIXED HOUSES		WEST SUSSEX
	HILLS FARM LANE			
	HORSHAM			
	BROADBRIDGE HEATH			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		151	
	Survey date: THURSDAY		11/12/14	Survey Type: MANUAL
75	WS-03-A-08	MIXED HOUSES		WEST SUSSEX
	ROUNDSTONE LANE			
	ANGMERING			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		180	
	Survey date: THURSDAY		19/04/18	Survey Type: MANUAL
76	WS-03-A-12	MIXED HOUSES		WEST SUSSEX
	MADGWICK LANE			
	CHICHESTER			
	WESTHAMPNETT			
	Edge of Town			
	Village			
	Total No of Dwellings:		152	
	Survey date: WEDNESDAY		16/06/21	Survey Type: MANUAL
77	WS-03-A-13	MIXED HOUSES & FLATS		WEST SUSSEX
	LITTLEHAMPTON ROAD			
	WORTHING			
	WEST DURRINGTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		197	
	Survey date: WEDNESDAY		23/06/21	Survey Type: MANUAL
78	WS-03-A-14	MIXED HOUSES		WEST SUSSEX
	TODDINGTON LANE			
	LITTLEHAMPTON			
	WICK			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		117	
	Survey date: WEDNESDAY		20/10/21	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 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED  
 TOTAL VEHICLES  
 Calculation factor: 1 DWELLS  
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	78	101	0.083	78	101	0.300	78	101	0.383
08:00 - 09:00	78	101	0.137	78	101	0.370	78	101	0.507
09:00 - 10:00	78	101	0.135	78	101	0.172	78	101	0.307
10:00 - 11:00	78	101	0.129	78	101	0.156	78	101	0.285
11:00 - 12:00	78	101	0.137	78	101	0.150	78	101	0.287
12:00 - 13:00	78	101	0.155	78	101	0.159	78	101	0.314
13:00 - 14:00	78	101	0.165	78	101	0.149	78	101	0.314
14:00 - 15:00	78	101	0.158	78	101	0.185	78	101	0.343
15:00 - 16:00	78	101	0.259	78	101	0.169	78	101	0.428
16:00 - 17:00	78	101	0.277	78	101	0.162	78	101	0.439
17:00 - 18:00	78	101	0.341	78	101	0.160	78	101	0.501
18:00 - 19:00	78	101	0.268	78	101	0.152	78	101	0.420
19:00 - 20:00	1	97	0.062	1	97	0.052	1	97	0.114
20:00 - 21:00	1	97	0.031	1	97	0.021	1	97	0.052
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			2.337			2.357			4.694

*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.*

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Parameter summary

Trip rate parameter range selected: 8 - 371 (units: )  
 Survey date range: 01/01/14 - 30/06/22  
 Number of weekdays (Monday-Friday): 82  
 Number of Saturdays: 0  
 Number of Sundays: 0  
 Surveys automatically removed from selection: 12  
 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.*

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