

## TRANSPORT STATEMENT

July 2023

Doswell Projects and Abri

### RESIDENTIAL DEVELOPMENT BRYANSTON ROAD SOUTHAMPTON

#### TRANSPORT STATEMENT

#### CONTROLLED DOCUMENT

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### RESIDENTIAL DEVELOPMENT BRYANSTON ROAD SOUTHAMPTON

#### TRANSPORT STATEMENT

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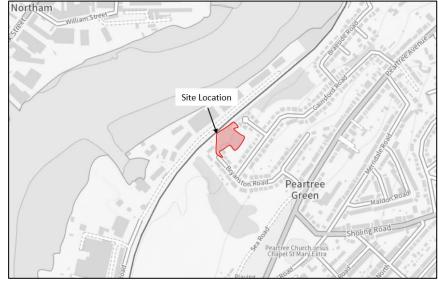
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#### 1. INTRODUCTION

- 1.1 This Transport Statement (TS) has been prepared by Paul Basham Associates on behalf of Doswell Projects and Abri to support a full planning application for a residential development comprising of 8 units, associated parking and landscaping at Bryanston Road, Southampton.
- 1.2 The site is located on greenfield land adjacent to existing property no.47 Bryanston Road. The site is bound by residential properties to the east, south-west and south and to the north/ north-west the site is bordered by a railway line. Bryanston Road is a residential road in Southampton which is accessed from Gainsford Road and Osterley Road and is a cul-de-sac at in the location of the proposed development.



1.3 The site location is shown within **Figure 1** and the site layout is attached as **Appendix A**.

Figure 1: Site Location

- 1.4 In support of this application a site visit was conducted in May 2023 and relevant data for the report and access design have been obtained.
- 1.5 There have been no previous planning applications associated with the site.
- 1.6 The remainder of this report will summarise the sites existing conditions and accessibility, review relevant Personal Injury Accident (PIA) Data, detail the development proposals including access design and parking provision, provide details of the servicing arrangements and detail the proposed trip generation and highways impact.



#### 2. EXISTING CONDITIONS AND ACCESSIBILITY

2.1 The development site is a section of greenfield land to the north-east of Bryanston Road, as shown within **Photograph 1**, and is surrounded by residential properties and a railway line along the north/north-western border.



Photograph 1: Existing Site Conditions

2.2 Bryanston Road is a cul-de-sac at the access to the greenfield land and as shown in **Photograph 1**, at present, vehicles park at the end of the cul-de-sac and on the pavement in front of the access to the site, making the substandard turning area at the end of the cul-de-sac unusable for the turning of delivery and service vehicles.

#### Local Highways Network

- 2.3 As aforementioned, Bryanston Road takes access from Gainsford Road to the east and Osterley Road to the south. Bryanston Road is a single carriageway road with a relatively steep topography heading south/south-east. The road is flanked by footways on either side of the road and is subject to a 30mph speed limit.
- 2.4 Gainsford Road is a residential road which connects to Peartree Avenue at its eastern end and Osterley Road is a residential road (for c8 dwellings) which is approximately 80m in length and runs between Bryanston Road and Peartree Avenue.



- 2.5 Peartree Avenue is a main route between the A3024 and Bitterne to the north and Woolston and the A3025 to the south. The A3024 provides a connection to Bursledon, the A27 and the M27 Junction 8 to the southeast and provides a connection into Southampton City Centre to the west and the A3025 provides a connection to Southampton City Centre via the Itchen Bridge and provides a connection to Hamble in the east.
- 2.6 Therefore, the site is well connected to both the local and strategic highways network.

#### Site Accessibility

- 2.7 The site is located in proximity to a number of local facilities which include Osterley Road Bus Stop (400m), Peartree Church Bus Stop (500m), One Stop (750m), Peartree Green Recreation Ground (750m), Woolston Railway Station (1.2km) Victoria Road in Woolston which has a range of facilities (1.4km), Bitterne C of E Primary School (1.5km), Bitterne Village (1.6km) and Bitterne Railway Station (2.1km).
- 2.8 CIHT's 'Planning for Walking' (April 2015) document identifies that the average length of pedestrian journeys is 1.37km (page 6). The majority of local facilities in proximity to the site come well within this threshold, providing a good opportunity to promote journeys by walking and other sustainable modes of travel, thus reducing the reliance on motorised vehicles.
- 2.9 In addition, MfS states that walking offers the greatest potential to replace short car trips, particularly those under 2km, however, journeys up to 5km away can be undertaken on foot or by bike. Therefore, the local facilities within 2.1km of the site all have the potential to be undertaken by sustainable travel modes, reducing the reliance on the private vehicle.



#### Pedestrian and Cycle Infrastructure

2.10 Footways flank either side of Bryanston Road (Photograph 2) from the development heading towardsOsterley Road, continuing to Peartree Avenue where footways also flank both sides of the carriageway.Footways are also present along Gainsford Road which continue to Peartree Avenue.



Photograph 2: Existing Footways along Bryanston Road

2.11 All local facilities are accessed from Peartree Avenue. Footways flank both sides of Peartree Avenue and provide a continuous route to Bitterne Village to the north and Woolston to the south of the site. Numerous pedestrian crossing points in the form of dropped kerbs with tactile paving (Photograph 3 and 4) and pedestrian refuge islands are present along Peartree Avenue, providing safe pedestrian connections to local facilities.



Photograph 3: Pedestrian Crossing along Peartree Avenue



Photograph 4: Dropped kerbs with tactile paving across junctions

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- 2.12 In addition, the site is located in proximity to 'The Itchen Way' recreational route which provides a safe walking route between Itchen Valley Country Park and Southampton City Centre.
- 2.13 In terms of cycle infrastructure, Southampton Cycle Network route 9 runs along Peartree Avenue and provides a connection to Woolston Railway Station and Redbridge Railway Station as shown in **Figure 2**.



Figure 2: Extract from Southampton Cycle Route Map

- 2.14 As shown in **Figure 2**, several routes intersect at different points, providing a connection to Southampton City Centre. In addition, route 9 connects with route 2 (towards Hedge End and Romsey), route 5 (towards Hedge End, Hamble and Eastleigh) and route 1 (towards Netley and the New Forest) at Woolston.
- 2.15 Therefore, the site is well connected to local cycle routes which provide connections to key facilities and towns/villages further afield.



#### **Public Transport**

- 2.16 Osterley Road Bus Stop and Peartree Church Bus Stop are the closest bus stops to the site. Osterley Road Bus Stop is a 5-minute walk/ 1 ½ minute cycle (400m) and is in the form of a single flagpole. Peartree Church Bus Stop is a 6-minute walk/ 2-minute cycle (500m) and has a sheltered seating area and flagpole.
- 2.17 Bluestar service 10 is available from these bus stops. It provides a connection between Southampton City Centre and Sholing on an hourly basis Monday-Saturday and also stops at Woolston Railway Station. From Southampton City Centre, a range of bus services can be accessed, providing connections to Thornhill, Southampton Airport, Fair Oak and Winchester.
- 2.18 Woolston Railway Station is located c1.2km south of the site (14 ½ minute walk or 4- minute cycle) and can be accessed on foot, by bike or via bus service 10. Bitterne Railway Station is located c2.1km northwest of the site (25-minute walk or 7-minute cycle) and can be accessed on foot or by bike. Hourly services are available between Portsmouth and Southsea and Southampton Central from both stations.
- 2.19 Therefore, the site is located in proximity to a range of public transport services which can be utilised for both commuter and leisure travel to/from the site.



#### Personal Injury Accident (PIA) Data

2.20 To understand whether there are any existing concerns with the surrounding highways network, the Crashmap database has been examined for the latest available 5-year period (2017-2021) and is shown in **Figure 3**.

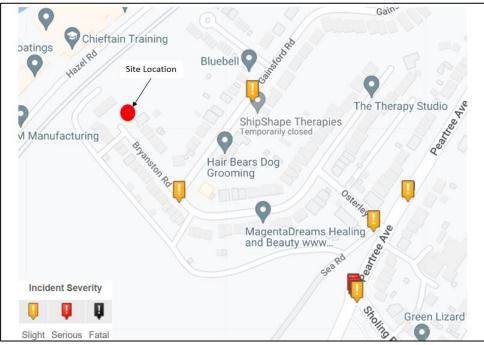


Figure 3: Personal Injury Accident Data (Crashmap)

2.21 As shown within **Figure 3**, there have been 5 accidents slight in severity and 2 accidents serious in severity in the vicinity of the site. All of these incidents occurred during different times/days/years and are therefore standalone incidents. Therefore, there is no reason to believe that there are any existing safety concerns with the surrounding highways network.

#### Summary

2.22 In summary, the proposed development is in proximity to a range of local facilities which can all be accessed on foot or by bike. There is a good provision of pedestrian and cycle infrastructure in the area which connects to local facilities and public transport connections. An hourly bus service is available Monday-Saturday which provides a connection between Southampton City Centre and Sholing and provides access to Woolston Railway Station. Woolston Railway Station is located c1.2km south of the site (14 ½ minute walk or 4- minute cycle) and Bitterne Railway Station is located c2.1km north-west of the site (25-minute walk or 7-minute cycle). Both stations provide hourly services between Portsmouth and Southsea and Southampton Central. In addition, having reviewed the PIA data for the site, there is no reason to believe that there are any existing safety concerns with the surrounding highways network.



#### 3. PROPOSED DEVELOPMENT

- 3.1 The development is proposing to provide 8 residential units with associated parking and landscaping, plus a new point of access at Bryanston Road, Southampton.
- 3.2 The development will comprise of a mix of 4 x 2-bed and 4 x 3-bed houses, with the accommodation schedule shown within **Appendix A**.

#### Site Access

- 3.3 The current access to the site is shown within **Photograph 1** and at present no formal vehicular access is provided. The site is located at the end of a cul-de-sac on Bryanston Road, as shown in **Photograph 1** and at present cars utilise the area in front of the site for parking.
- 3.4 The site access has been designed as a priority bellmouth junction which will measure c9.6m at the access to tie in with the end of Bryanston Road, reducing to c4.8m heading into the site. The access will be supported by a c11m radii on the southern side of the access road and a c2m radii on the northern side, tying in with the existing footway/turning head. The access design is shown within **Appendix B**.
- 3.5 The introduction of a new access should discourage cars from parking inappropriately within the existing turning head area, with alternative provision for 4 cars provided just within the site boundary. Should it be considered necessary to keep this area clear of vehicles once the development is operational (i.e. if cars still choose to park inappropriately in the turning head/access, it could be possible to secure funding for double yellow lining (via TRO) to be secured through the Section 106.
- 3.6 Furthermore, visibility in the primary direction is achievable at 2.4m x 43m in line with guidance from MfS for 30mph speed limits, as shown in Appendix B.

#### Parking

#### Car parking

- 3.7 Southampton City Council (SCC) Parking Standards SPD (2011) sets out the maximum parking standards for residential developments. The requirements suggest that 2-bed and 3-bed units should have a maximum of 2 spaces per unit.
- 3.8 The development proposes providing a total of 16 spaces for the 8 units, plus an additional 4 parking spaces along the access road which will accommodate the cars currently parked within the existing turning head on Bryanston Road.



3.9 Swept path analysis has been undertaken to ensure all spaces are accessible and is attached as AppendixC.

#### Cycle Parking

3.10 Southampton City Council (SCC) Parking Standards SPD (2011) sets out the minimum number of cycle parking spaces to be provided at the development which is 1 space per unit. The proposed development will provide 2 cycle spaces per unit, accommodated within private gardens.

#### Servicing

3.11 In terms of servicing, it has been ensured that a refuse vehicle can enter/exit and turn around on site, as well as get within the maximum walk/carry distance of 25m. Furthermore, it has been ensured that a fire tender can enter/exit and turn around on site, as well as get within 45m of each unit in line with building regulations. The supporting tracking drawings are attached as **Appendix D**. This arrangement offers significant benefit over the current situation where the substandard turning head (even when not parked with cars) cannot accommodate the turning of either refuse vehicles or fire tenders.



#### 4. HIGHWAY IMPACT

- 4.1 To understand the trip generation associated with the proposed development, trip rates have been derived from the TRICS (v7.10.1) database utilising the following parameters:
  - Residential Houses Privately Owned
  - 10-73 units
  - Suburban Areas
  - Weekday Surveys
  - Sites in England (excluding Greater London)
- 4.2 The results from the TRICS database are summarised within **Table 1**, with the full outputs attached as **Appendix E**.

	AM Peak (0800-0900)		PM Peak (1	1700-1800)	Daily (12 hours)	
	Arrivals	Departures	Arrivals	Departures	Dally (12 Hours)	
Trip Rate (per unit)	0.136	0.399	0.313	0.167	4.620	
Trip Generation (8 units)	(8 units) 1 3		3	1	37	

 Table 1: Proposed Development Trip Generation

- 4.3 As summarised within **Table 1**, the proposed development could be expected to produce up to 4 twoway trips in both the AM and PM peak periods and up to 37 vehicular trips over a 12-hour period.
- 4.4 Based on the above the proposed development could potentially add an additional 3-4 vehicular movements each hour, based on a 12-hour period, on average every 15-20 minutes.
- 4.5 Having regard to the above, it is shown that the proposed development will result in a very modest increase of vehicular traffic on the local road network and therefore certainly does not result in a "severe impact" to cross reference with terminology in paragraph 111 of the NPPF.



#### 5. SUMMARY AND CONCLUSIONS

- 5.1 This Transport Statement (TS) has been prepared by Paul Basham Associates on behalf of Doswell Projects and Abri to support a full planning application for a residential development comprising of 8 dwellings (4 x 2bed and 4 x 3bed), associated parking and landscaping at Bryanston Road, Southampton.
- 5.2 The site is located on greenfield land adjacent to existing property no.47 Bryanston Road. The site is bound by residential properties to the east, south-west and south and to the north/ north-west the site is bordered by a railway line. Bryanston Road is a residential road in Southampton which is accessed from Gainsford Road and Osterley Road and is a cul-de-sac at in the location of the proposed development.
- 5.3 The proposed development is in proximity to a range of local facilities which can all be accessed on foot or by bike. There is a good provision of pedestrian and cycle infrastructure in the area which connects to local facilities and public transport connections. Access to public transport, including both bus and rail options is also readily achievable.
- 5.4 The site access has been designed as a priority bellmouth junction to tie into and extend from the existing substandard turning head at the end of Bryanston Road. The layout has been tracked to ensure a refuse vehicle can get within 25m of each unit and a fire tender can get within 45m of each unit in line with Building Regulations. This offers a benefit to the existing properties of Bryanston Road who currently do not benefit from turning facilities for larger delivery/refuse vehicles and fire tenders.
- 5.5 The development proposes providing a total of 16 car parking spaces with 2 cycle spaces for each of 8 units, plus an additional 4 car parking spaces along the access road which will accommodate the cars displaced from the existing turning head on Bryanston Road. The parking provision is in line with SCC parking standards.
- 5.6 The TRICS database was utilised to understand the potential trip generation associated with the propped development which indicated that the proposed development could be expected to produce up to 4 two-way trips in both the AM and PM peak periods and up to 37 vehicular trips over a 12-hour period. The results suggest that the proposed development will result in a very modest increase of vehicular traffic on the local road network and therefore certainly does not result in a "severe impact" to cross reference with terminology in paragraph 111 of the NPPF.



5.7 It has been demonstrated that the development is in a sustainable location, has been designed in line with guidance/standards and will not have a severe impact upon the local highways network. Therefore, we ask Southampton City to look favourably upon this development in terms of highways.





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Bryanston Road, Southampton Transport Statement

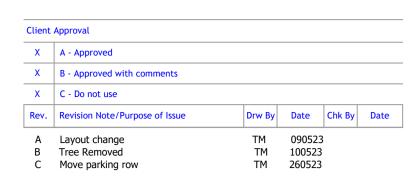




# DOSWELL PROJECTS AND ABRI

BRYANSTON ROAD SOUTHAMPTON Dra J 23 Pu

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- All dimensions must be checked on site by the contractor prior to commencement of the works.



Planning application boundary

### SCHEDULE OF ACCOMMODATION

UNIT	TYPE	Internal Area	
Unit 1	2b 4p House	79.1 sq. m	
Unit 2	3b 5p House	93.4 sq. m	
Unit 3	3b 5p House	93.4 sq. m	
Unit 4	2b 4p House	79.1 sq. m	
Unit 5	2b 4p House	79.1 sq. m	
Unit 6	2b 4p House	79.1 sq. m	
Unit 7	3b 5p House	93.4 sq. m	
Unit 8	3b 5p House	93.4 sq. m	
Developmen	t Site		0.3819 Ha

Site Density	21 Units/Ha
Car Parking	TOTAL = 20 spaces
	2 spaces per unit and 4 replacement spaces
	Bins and cycles in private gardens
Key :	

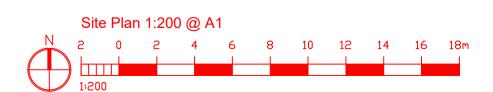
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## KEY:

$\bigcirc$	EXISTING TREES		EXISTING TREE / PLANTING – TO BE REMOVED
×	PROPOSED TREES ''!!!!!!		EXISTING SHRUB PLANTING – GREEN BUFFER
	TARMAC ROAD SURFACE		PROPOSED PLANTING / HEDGING
	RUMBLE STRIP		PROPOSED PRIVATE GARDEN
	PATIO SLABS 450 X 450mm	shed	2.0 x 1.5m GARDEN SHED INCORP. CYCLE STORE
	BLOCK PAVING		BINS
	PRIVATE ACCESS PATH		APPLICATION BOUNDARY
			RETAINED LAND FOR SELF BUILD

### KEY:

- A: Planting including shrubs, native species to encourage biodiversity.
- B: Private paths & patios in light coloured paving.
- C: Block paving of varying lengths to main pathways & parking spaces.
- D: 1800 mm security gates to garden/ path entrances to suit Secured by design
- E: Tall Close board fence 1800mm for privacy between gardens
- F: Secure timber sheds for private gardens to houses and flats
- G: Brick wall 900mm or retaining wall



### PROPOSED SITE PLAN

awn	Date		Checke	ed	Dat	te	Scale a	it A1	
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Job No.	Pro.	Org.	Zone	Level	Туре	Role	No.	Rev.	
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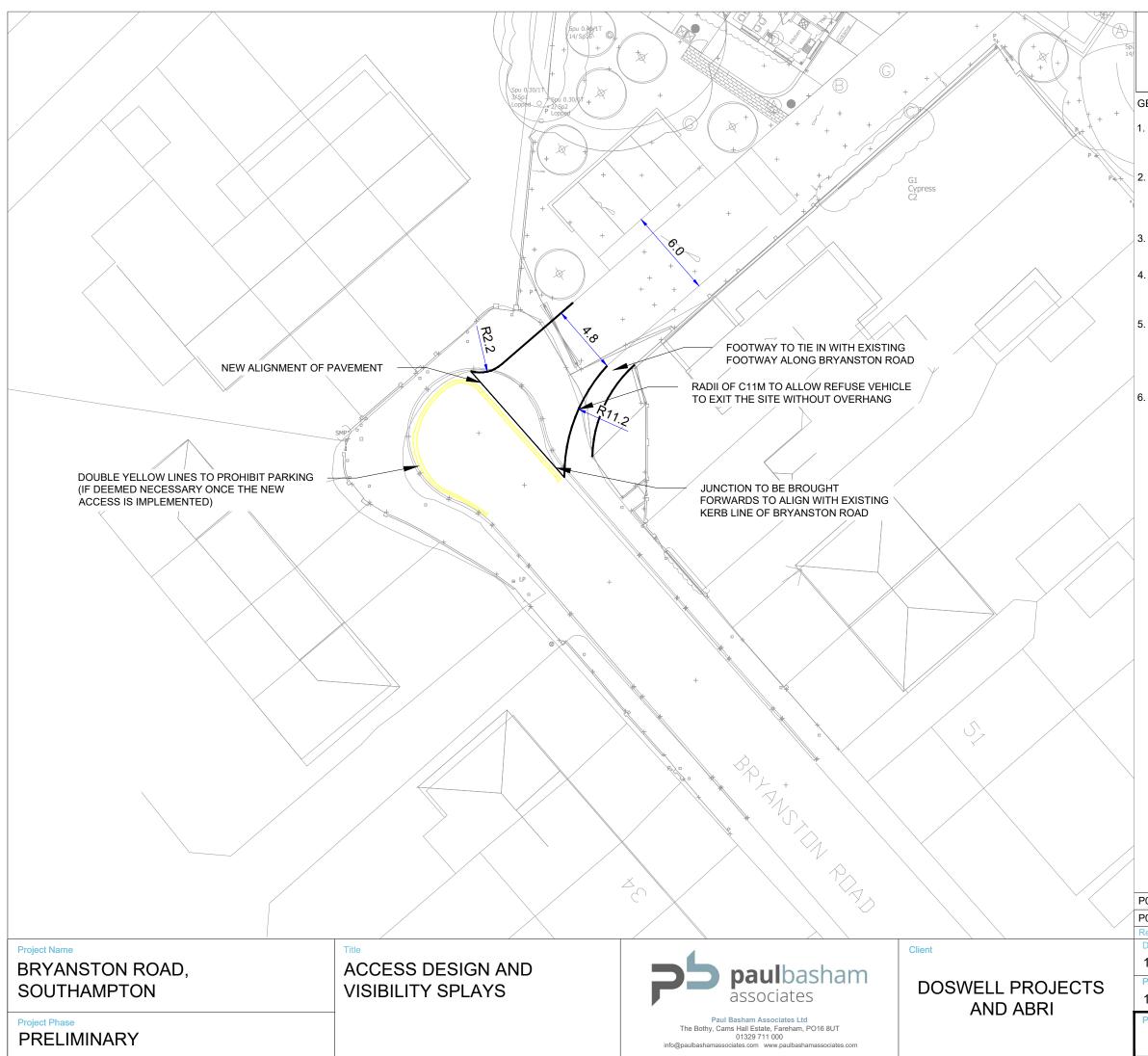
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Bryanston Road, Southampton Transport Statement





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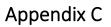
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- . VISIBILITY SPLAYS HAVE BEEN MEASURED IN ACCORDANCE WITH MFS GUIDANCE FOR 30MPH SPEED LIMITS.





P02	UPDATED LAYOUT		04.07.23	CID	MDS	
P01	FIRST ISSUE	FIRST ISSUE		15.06.23	CID	MDS
Rev	Description		Date	By	App'd	
Date	e Created	Drawn By	Approved By		Suitabilty Code	
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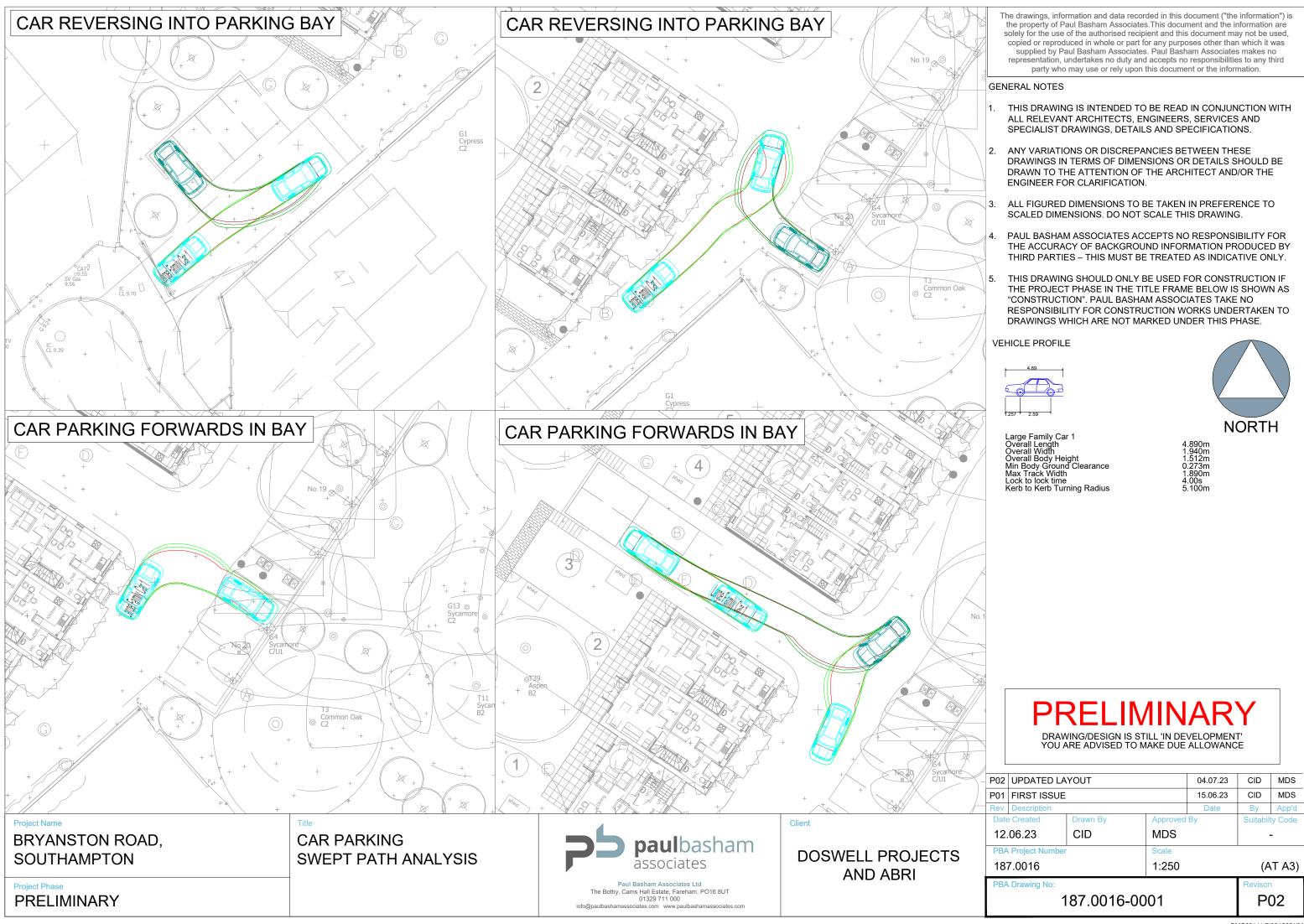
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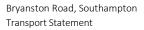


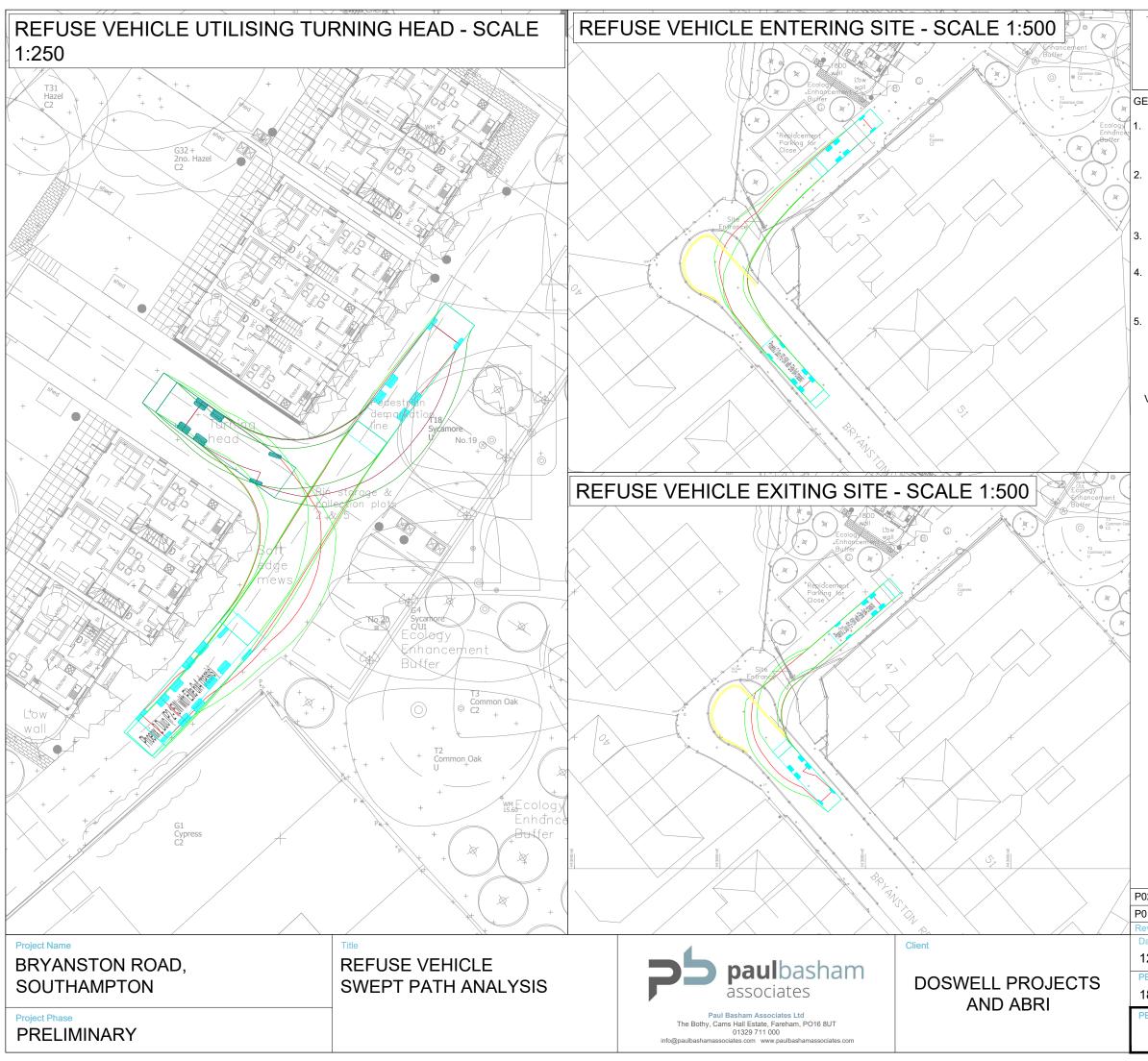
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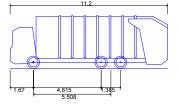
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#### VEHICLE PROFILE

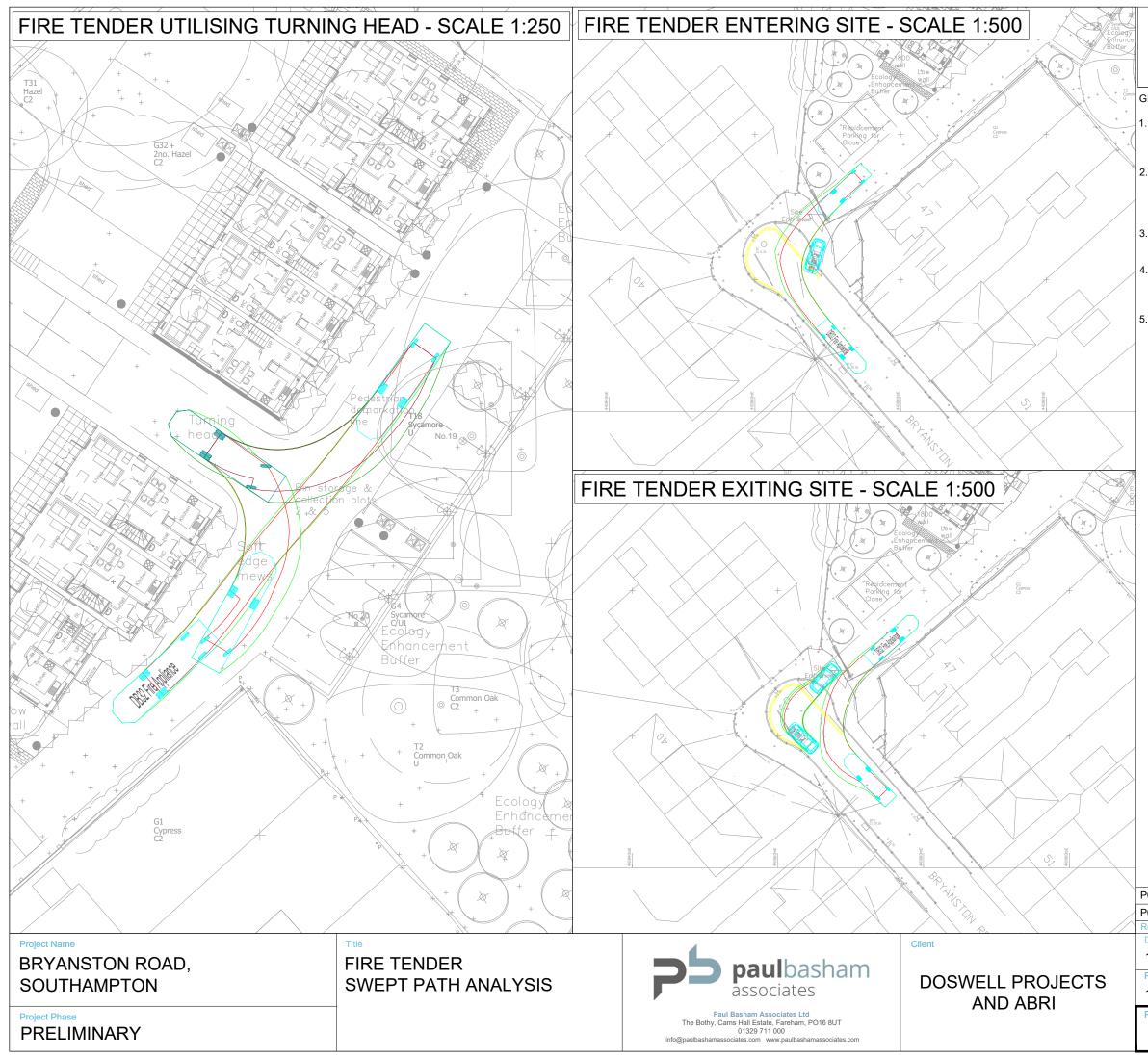




Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)Overall Length11.200mOverall Width2.530mOverall Body Height3.751mMin Body Ground Clearance0.304mTrack Width2.500mLock to lock time4.00sKerb to Kerb Turning Radius9.500m

	DRAWING/DESIGN IS STILL 'IN DEVELOPMENT' YOU ARE ADVISED TO MAKE DUE ALLOWANCE						
02	2 UPDATED LAYOUT 03.07.23 CID MDS						
01	FIRST ISSUE		15.06.23	CID	MDS		
ev	Description			Date	By	App'd	
Date	Created	Drawn By	Approved	Ву	Suitabil	ty Code	
12.	06.23	CID	MDS	MDS		-	
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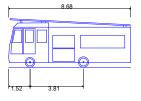
#### **VEHICLE PROFILE**

4.89

Large Family Car 1 Overall Length Overall Width Overall Body Height Min Body Ground Clearance Max Track Width Lock to Lock time Lock to lock time Kerb to Kerb Turning Radius



4.890m 1.940m 1.512m 0.273m 1.890m 4.00s 5.100m



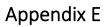
DB32 Fire Appliance Overall Length Overall Width Overall Body Height Min Body Ground Clearance Max Track Width Lock to lock time Kerb to Kerb Turning Radius

8.680m 2.180m 3.452m 0.337m 2.121m 6.00s 7.910m

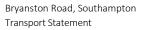


P02	UPDATED LAYOUT			03.07.23	CID		
P01	FIRST ISSUE			15.06.23	CID	MDS	
Rev	Description			Date	By	App'd	
Date	Created	Drawn By	Approved	Ву	Suitabilty Code		
12.	06.23	CID	MDS		-		
PBA	Project Number		Scale				
187.0016 AS		AS SH	OWN	(A	T A3)		
PBA Drawing No: Revison					1		
187.0016-0003					P	)2	

QMS2011/v7/021222/JM



Paul Basham Associates Ltd Report No. 187.0016/TS





TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Sele	cted re	gions and areas:	
02	SOUT	TH EAST	
	HC	HAMPSHIRE	1 days
	KC	KENT	1 days
03	SOUT	TH WEST	
	DV	DEVON	1 days
	SD	SWINDON	1 days
	ΤВ	TORBAY	1 days
04	EAST	ANGLIA	
	NF	NORFOLK	1 days
	PB	PETERBOROUGH	1 days
	SF	SUFFOLK	1 days
06	WES	T MIDLANDS	
	WK	WARWICKSHIRE	1 days
	WM	WEST MIDLANDS	1 days
07	YOR	<pre><shire &="" lincolnshire<="" north="" pre=""></shire></pre>	
	NY	NORTH YORKSHIRE	1 days
	WY	WEST YORKSHIRE	1 days
08		TH WEST	
	AC	CHESHIRE WEST & CHESTER	1 days
	GM	GREATER MANCHESTER	1 days
09	NOR		
	DH	DURHAM	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: Actual Range: Range Selected by User:	No of Dwell 10 to 73 (u 6 to 100 (u	nits: )	
Parking Spaces Range:	All Surveys	Include	b
Parking Spaces per Dwellir	ng Range: All	Survey	s Included
Bedrooms per Dwelling Ra	nge: All	Survey	s Included
Percentage of dwellings pr	ivately owned	d:	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.

<u>Selected survey days:</u>	
Monday	4 days
Tuesday	3 days
Wednesday	4 days
Thursday	4 days

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

<u>Selected survey types:</u>	
Manual count	15 days
Directional ATC Count	0 days

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

Calculation Reference: AUDIT-247601-230523-0539

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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.

<u>Selected Location Sub Categories:</u> Residential Zone

15

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 Included5 days - SelectedServicing vehicles Excluded14 days - Selected

Secondary Filtering selection:

<u>Use Class:</u> C3

15 days

5 days

1 days

2 days

1 days

5 days

1 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:

 5,001 to 10,000

 10,001 to 15,000

 15,001 to 20,000

 20,001 to 25,000

 25,001 to 50,000

 50,001 to 100,000

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

 Population within 5 miles:

 5,001
 to 25,000
 1 days

 25,001
 to 50,000
 1 days

 50,001
 to 75,000
 2 days

 75,001
 to 100,000
 2 days

 125,001
 to 250,000
 6 days

 250,001
 to 500,000
 2 days

 500,001
 to 500,000
 2 days

 100,000
 1 days
 1 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	6 days
1.1 to 1.5	9 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.

<u>Travel Plan:</u>	
Yes	3 days
No	12 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

15 days

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

Southampton

Hamble Lane LIST OF SITES relevant to selection parameters

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LIST	OF SITES relevant to	selection parameters		
1	AC-03-A-04 LONDON ROAD NORTHWICH LEFTWICH	TOWN HOUSES		CHESHIRE WEST & CHESTER
	Suburban Area (PPSe Residential Zone Total No of Dwellings <i>Survey date:</i>	S:	24 <i>06/06/19</i>	Survey Type: MANUAL
2	DH-03-A-01 GREENFIELDS ROAD BISHOP AUCKLAND	SEMI DETACHED	00,00,19	DURHAM
	Suburban Area (PPS) Residential Zone Total No of Dwellings	5:	50	
3	<i>Survey date:</i> DV-03-A-03 LOWER BRAND LANE HONITON	TERRACED & SEMI DET	<i>28/03/17</i> FACHED	<i>Survey Type: MANUAL</i> DEVON
	Suburban Area (PPS Residential Zone Total No of Dwellings		70	
4	<i>Survey date:</i> GM-03-A-11 RUSHFORD STREET MANCHESTER LEVENSHULME		28/09/15	<i>Survey Type: MANUAL</i> GREATER MANCHESTER
	Neighbourhood Centre Residential Zone Total No of Dwellings Survey date:		37 <i>26/09/16</i>	Survey Type: MANUAL
5	HC-03-A-23 CANADA WAY LIPHOOK	HOUSES & FLATS	20,07710	HAMPSHIRE
	Suburban Area (PPS	6 Out of Centre)		
	Residential Zone		10	
	Total No of Dwellings		62 <i>19/11/19</i>	Company Trans. Adda/////
6	Survey date: KC-03-A-03 HYTHE ROAD	MIXED HOUSES & FLAT		<i>Survey Type: MANUAL</i> KENT
	ASHFORD WILLESBOROUGH Suburban Area (PPS Residential Zone	6 Out of Centre)		
	Total No of Dwellings		51	
7	Survey date: NF-03-A-51 CITY ROAD	<i>THURSDAY</i> SEMI - DETACHED	14/07/16	<i>Survey Type: MANUAL</i> NORFOLK
	NORWICH LAKENHAM Suburban Area (PPS&	6 Out of Centre)		
	Residential Zone Total No of Dwellings Survey date:		34 <i>13/09/22</i>	Survey Type: MANUAL
8	NY-03-A-13 CATTERICK ROAD CATTERICK GARRISC OLD HOSPITAL COMI Suburban Area (PPSC Residential Zone	TERRACED HOUSES DN POUND		NORTH YORKSHIRE
	Total No of Dwellings		10	
	Survey date:	WEDNESDAY	10/05/17	Survey Type: MANUAL

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Hamble Lane LIST OF SITES relevant to selection parameters (Cont.)

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9	PB-03-A-04 DETACHED HOUSES EASTFIELD ROAD PETERBOROUGH		PETERBOROUGH
10	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i> SD-03-A-01 SEMI DETACHED HEADLANDS GROVE SWINDON	28 1 <i>7/10/16</i>	<i>Survey Type: MANUAL</i> SWINDON
11	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: THURSDAY</i> SF-03-A-07 MI XED HOUSES FOXHALL ROAD IPSWICH	27 <i>22/09/16</i>	<i>Survey Type: MANUAL</i> SUFFOLK
12	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: THURSDAY</i> TB-03-A-01 TERRACED HOUSES BRONSHILL ROAD TORQUAY	73 <i>09/05/19</i>	<i>Survey Type: MANUAL</i> TORBAY
13	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i> WK-03-A-03 DETACHED HOUSES BRESE AVENUE WARWICK GUYS CLIFFE	37 <i>30/09/15</i>	<i>Survey Type: MANUAL</i> WARWICKSHIRE
14	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i> WM-03-A-04 TERRACED HOUSES OSBORNE ROAD COVENTRY EARLSDON	23 <i>25/09/19</i>	<i>Survey Type: MANUAL</i> WEST MIDLANDS
15	Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i> WY-03-A-01 MI XED HOUSI NG SPRING VALLEY CRESCENT LEEDS BRAMLEY	39 <i>21/11/16</i>	<i>Survey Type: MANUAL</i> WEST YORKSHI RE
	Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	46 <i>21/09/16</i>	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.

Tuesday 23/05/23 Page 5 Licence No: 247601

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#### TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED TOTAL VEHICLES Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

	ARRIVALS		DEPARTURES			TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	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	15	41	0.061	15	41	0.257	15	41	0.318
08:00 - 09:00	15	41	0.136	15	41	0.399	15	41	0.535
09:00 - 10:00	15	41	0.169	15	41	0.172	15	41	0.341
10:00 - 11:00	15	41	0.126	15	41	0.164	15	41	0.290
11:00 - 12:00	15	41	0.152	15	41	0.157	15	41	0.309
12:00 - 13:00	15	41	0.160	15	41	0.155	15	41	0.315
13:00 - 14:00	15	41	0.165	15	41	0.177	15	41	0.342
14:00 - 15:00	15	41	0.175	15	41	0.205	15	41	0.380
15:00 - 16:00	15	41	0.273	15	41	0.211	15	41	0.484
16:00 - 17:00	15	41	0.301	15	41	0.154	15	41	0.455
17:00 - 18:00	15	41	0.313	15	41	0.167	15	41	0.480
18:00 - 19:00	15	41	0.227	15	41	0.144	15	41	0.371
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.258			2.362			4.620

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:	10 - 73 (units: )
Survey date date range:	01/01/15 - 09/11/22
Number of weekdays (Monday-Friday):	15
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	4
Surveys manually removed from selection:	0

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