



Land East of Mousdell Close, Ashington

Transport Statement

Client: Rocco Homes

i-Transport Ref: LJ/AJ/ITS200920-002B

Date: 31 July 2025

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**i-Transport LLP**

Building 1000  
Lakeside North Harbour  
Western Road  
Portsmouth  
PO6 3EZ

Tel: 0331 6300 366

[www.i-transport.co.uk](http://www.i-transport.co.uk)

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## Quality Management

Report No.	Comments	Date	Author	Authorised
ITS200920-002	Draft	11/07/2025	LJ/AJ	DS
ITS200920-002A	Submission	21/07/2025	LJ/AJ	DS
ITS200920-002B	Revised Layout	31/07/2025	LJ/AJ	DS

File Ref: S:\Projects\200000 Series\200920ITS - Penn Gardens Ashington\Admin\Report and Tech Notes\002 - Transport Statement\ITS200920-002B Transport Statement.docx

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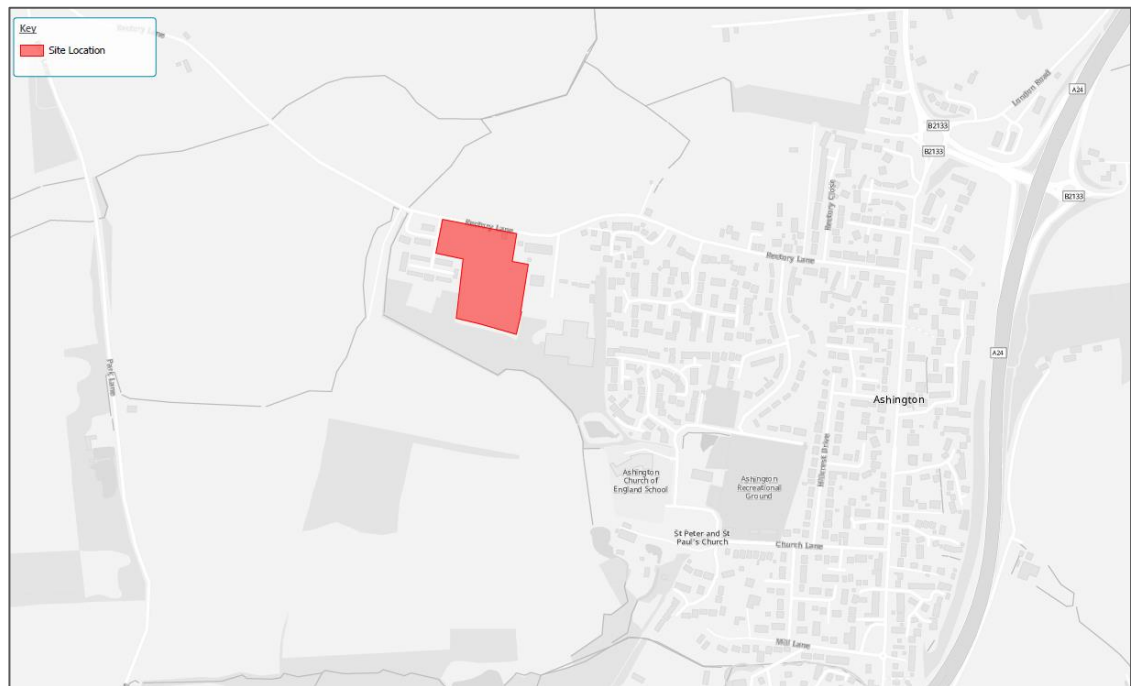
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## SECTION 1 Introduction

### 1.1 Overview

- 1.1.1 Rocco Homes has appointed i-Transport to provide highways and transport advice to support a planning application for the proposed development on land east of Mousdell Close and south of Rectory Lane, Ashington.
- 1.1.2 The site is located to the west of Ashington, with a small number of residential properties to the east and west of the site, and agricultural fields to the north and south. The site location is presented in **Figure 1**, extracted at **Image 1.1**.

**Image 1.1: Site Location**



- 1.1.3 Rocco Homes seek full planning permission for the development of 74 dwellings with vehicular access taken from Rectory Road.

### 1.2 Pre-application Advice

- 1.2.1 A Transport Statement Scoping Note was submitted to West Sussex County Council (WSCC) in April 2025. A written response was provided, dated 9<sup>th</sup> May 2025, and is attached at **Appendix A**. The key matters can be summarised as follows:
- It is accepted that all services within the village are within a reasonable walking and cycling distance.

- No in-principle issues with the access were raised, subject to a Stage 1 Road Safety Audit and speed surveys.
- The peak hour trip rates, resultant vehicular traffic generation and modelling scope is accepted.

1.2.2 All matters raised within WSCC's pre-application response have been considered and are addressed within this Transport Statement.

### 1.3 **Scope**

1.3.1 This Transport Statement (TS) has been prepared to consider the transport impacts that may arise from the proposed development, and to consider the proposal against the critical transport tests identified in paragraph 115 of the National Planning Policy Framework (NPPF), it should be ensured that:

- Sustainable transport modes are prioritised, taking account of the vision for the site, the type of development and its location.
- Safe and acceptable access be provided for all users.
- The design of any internal streets and parking areas reflects current national and local design guidance.
- Any significant impacts from the development on the transport network (or on highway safety), can be cost effectively mitigated to an acceptable degree through a vision led approach.

### 1.4 **Vision**

1.4.1 In transport terms, the vision for the proposal is to enable development to be focused on the prioritisation of active travel whilst ensuring that safe and suitable access for all is provided. Specifically in the context of Ashington, integration with the existing walking and cycling network, proximity to key local destinations and delivery of an access that meets local and national standards will provide the best possible opportunity for active travel opportunities to be taken up and the use of the private car minimised.

1.4.2 To support and encourage the uptake of sustainable travel, the proposed development incorporates a permeable layout and pedestrian infrastructure improvements, to be implemented by the Developer. In addition, the application is accompanied by a Travel Plan Statement.

## SECTION 2 Policy Context

### 2.1 National Policy

#### National Planning Policy Framework (NPPF) December 2024

2.1.1 The revised NPPF was published in December 2024, the document sets out the Government's planning policies for England and how these should be applied. It provides a framework within which locally prepared plans can provide for housing and other development in a sustainable manner.

2.1.2 Paragraph 115 states that:

***"In assessing sites that may be allocated for development in plans, or specific applications for development, it should be ensured that:***

- ***Sustainable transport modes are prioritised taking account of the vision for the site, the type of development and its location;***
- ***Safe and suitable access to the site can be achieved for all users;***
- ***The design of streets, parking areas, other transport elements and the content of associated standards reflects current national guidance, including the National Design Guide and the National Model Design Code; and***
- ***Any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree through a vision-led approach".***

2.1.3 Paragraph 116 states:

***"Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network, following mitigation, would be severe, taking into account all reasonable future scenarios".***

2.1.4 Furthermore, Paragraph 110 states that:

***"Opportunities to maximise sustainable transport solutions will vary between urban and rural areas, and this should be taken into account in both plan-making and decision-making".***

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### **National Planning Practice Guidance (NPPG) March 2014**

2.1.5 The web-based National Planning Practice Guidance (NPPG) replaced DfT's Guidance on Transport Assessment on 6 March 2014 and seeks to bring together planning guidance for England across all disciplines in an accessible way as well as to provide a clear link between guidance and the aims and objectives of the NPPF. The NPPG discusses the role of travel plans and transport assessments / statements and how they relate to each other.

## **2.2 Local Policy**

### **West Sussex County Council (WSCC) Transport Plan 4 2022-2036**

2.2.1 The WSCC Local Transport Plan 4 was published in April 2022 and sets out a long-term strategy and implementation plan for making improvements to the transport system throughout the county over the next 20 years.

2.2.2 The strategy for Horsham is to provide improvements to the transport system to tackle the identified transport issues as and when funding becomes available. To ensure that the regeneration aspirations of the plan are delivered, and the identified transport issues are addressed, they will ensure that all new scheme and developments contribute, and support, in some way to the following:

- ***Increasing use of sustainable modes of transport***
- ***Improving network efficiency in order to improve journey times and air quality***
- ***Improving safety for all road users***
- ***Facilitating the introduction of on-street electric vehicle charging infrastructure***
- ***Improving active travel facilities within existing communities and between towns***

2.2.3 This TS has been prepared in accordance with the strategies set out in the Local Transport Plan. It provides a comprehensive assessment of the impact of the development proposal and sets out a suitable and robust mitigation strategy.

### **Horsham District Planning Framework 2015-2031**

2.2.4 Horsham District Planning Framework (excluding South Downs National Park) was published in November 2015 replacing the Core Strategy and General Development Control Policies documents which were adopted in 2007. The report provides the broad policy framework and a long-term strategy to manage development within the Horsham District through to the end of the plan period in 2031.



2.2.5 Chapter 11 outlines that there is a commitment to developing an integrated community connected by a sustainable transport system in the local district. However, to manage the anticipated growth in demand for travel, development proposals which promote an improved and integrated transport network, with a re-balancing in favour of non-car modes, will be supported if it:

- ***Maintains and improves the existing transport system (road, rail, cycle)***
- ***Is integrated with the wider network of routes, including public rights of way and cycle paths***
- ***Includes opportunities for sustainable transport which reduce the need for major infrastructure and cut carbon emissions***
- ***Provides safe and suitable access for all vehicles, pedestrians, cyclists, horses riders, public transport and the delivery of goods***
- ***Is accompanied by an agreed Green Travel Plan where it is necessary to minimise a potentially significant impact of the development on the wider area or as a result of needing to address an existing local traffic problem***

2.2.6 Policy 41 states that planning permission will only be granted where it can be demonstrated that the proposal provides adequate parking to support new development, whilst ensuring that it is suitably located and does not conflict with other uses.

## 2.3 Summary

2.3.1 National and local policies confirm that safe and suitable access to sites should be achieved for all users. Account should be taken of whether the opportunities for sustainable transport modes have been prioritised, depending on the nature and location of the site, to ensure the need to travel will be minimised and the use of sustainable transport modes can be maximised.

2.3.2 In accordance with the NPPF, development should only be prevented or refused on highway grounds where the residual cumulative impacts are severe or if there are safety concerns. The following sections of this Transport Statement set out how the proposed development complies with these national and local transport planning policy considerations.

## SECTION 3 Existing Transport Conditions

### 3.1 Walking

#### Rectory Lane

- 3.1.1 Rectory Lane runs along the northern boundary of the site and will comprise the main walking route to/from the site. It provides a continuous footway on the southern side of the carriageway into central Ashington and, approximately 400m from the site, a footway is also introduced on the northern side of the carriageway.

#### London Road

- 3.1.2 London Road is the arterial road within Ashington, connecting Rectory Lane with the A24 and B2133. It accommodates the majority of local services and facilities and has continuous footways on both sides of the carriageway.

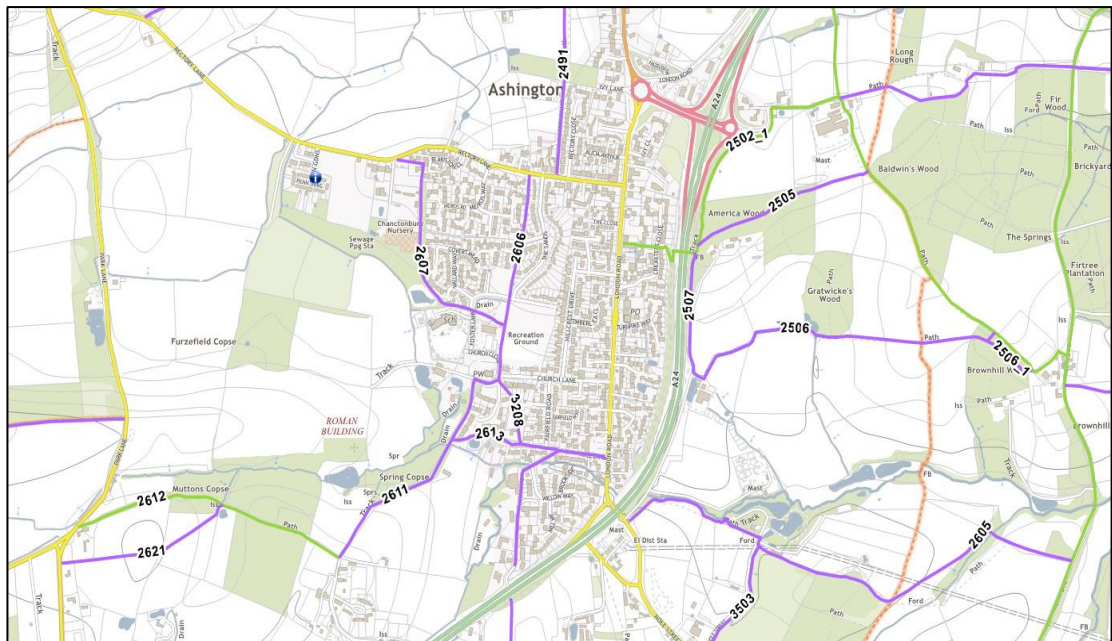
### 3.2 Cycling

- 3.2.1 The entirety of Ashington is accessible within a 1.5km bike ride; a comfortable cycling distance.
- 3.2.2 Despite a lack of dedicated cycling infrastructure in the immediate area, on-road cycling is a valuable transport option for residents, and local conditions are suitable for on-street cycling.

#### Public Rights of Way (PROW)

- 3.2.3 There is a well-developed Public Right of Way (PROW) network within the vicinity of the site, presented in **Image 3.1**.

**Image 3.1: Public Rights of Way**



- 3.2.4 Footpaths 2607, 2491 and 2606 are accessible from Rectory Lane, providing connections to the larger PROW network, offering alternative pedestrian routes to facilities, and leisure opportunities.
- 3.2.5 Footpath 2607 to the east of the site is proposed to be upgraded and resurfaced, as part of the planning permission that was granted in September 2023 for Chanctonbury Nurseries (*ref: DC/22/0372*). The S106 document states that prior to occupation of 50% of dwellings, the PROW works will have been completed.

### 3.3 Public Transport

#### **Bus Travel**

- 3.4 The local bus stops are on Rectory Lane, approximately 900m from the site. Hourly bus services to Horsham, Crawley and Worthing via Metrobus 23 are available, and both bus stops are equipped with shelters, flagpoles and timetable information.

#### **Rail Travel**

- 3.4.1 The closest railway station is Pulborough Station, approximately 9km from the site with services towards London Victoria, Barnham and Bognor Regis. Further rail services are available from Horsham or Worthing, which are both served bus service 23, and offer onward connections to London Victoria, Southampton, Brighton, Portsmouth, Bognor Regis, Peterborough and Littlehampton.

3.4.2 The earliest train departs Pulborough Station towards London at 06:02, with the latest departing London at 22:35. There are at least two services an hour in peak and off-peak times to all the listed destinations.

3.4.3 Pulborough Station has 22 cycle parking spaces, equipped with CCTV, as well as 159 car parking spaces. This would enable future residents to drive to the station where they can continue their journey via a sustainable travel mode.

### 3.5 Existing Traffic Volumes

3.5.1 To establish existing traffic volumes and vehicle speeds, two ATC surveys were undertaken on Rectory Lane between 2<sup>nd</sup> June and 8<sup>th</sup> June 2025. The average weekday traffic flows recorded at both locations are provided in **Table 3.1**, as well as the morning peak of 08:00-09:00 and evening peak of 17:00-18:00. The full traffic survey outputs are provided at **Appendix B**.

**Table 3.1: Average Weekday Traffic Flows on Rectory Lane**

Direction	Morning Peak	Evening Peak	24-hour Daily
Eastbound	16	11	133
Westbound	21	45	287

Source: Traffic Surveys

### 3.6 Highway Safety

3.6.1 Personal Injury Accident (PIA) data has been obtained from Sussex Safer Road Partnership for the most recently available five-year period (1<sup>st</sup> March 2020 – 28<sup>th</sup> February 2025).

3.6.2 In total there have been two 'slight' incidents that occurred at the Billingshurst Road Roundabout to the east of the site. Both accidents involved cyclists and occurred due to one car overtaking too closely, and the other did not give way to the cyclist as they entered the roundabout.

3.6.3 Although both collisions involved vulnerable road users, the number and cause of the accidents does not suggest a specific highway safety issue, with the causation of both collisions a result of driver error.

### 3.7 Summary

3.7.1 The site benefits from good walking infrastructure and public footpaths, as well as local bus stops that provide services to Horsham, Crawley and Worthing. There are regular rail services from Pulborough that can be accessed via cycling or the local bus service. Therefore, there are good opportunities for future residents of the site to travel sustainably.

## SECTION 4 Development Proposal

### 4.1 Proposed Development

4.1.1 The description of development is:

*“Erection of 74no. dwellings with associated landscaping, open space, parking and creation of new vehicular access from Rectory Lane.”*

4.1.2 The proposed development mix will comprise of the following:

**Table 4.1: Development Mix**

House Type	Number
1 Bedroom Flats	14
2 Bedroom Flats	8
2 Bedroom Houses	10
3 Bedroom Houses	29
4 Bedroom Houses	13
<i>Total</i>	74

4.1.3 The proposed site layout is shown in **Image 4.1** and attached in full at **Appendix C**.

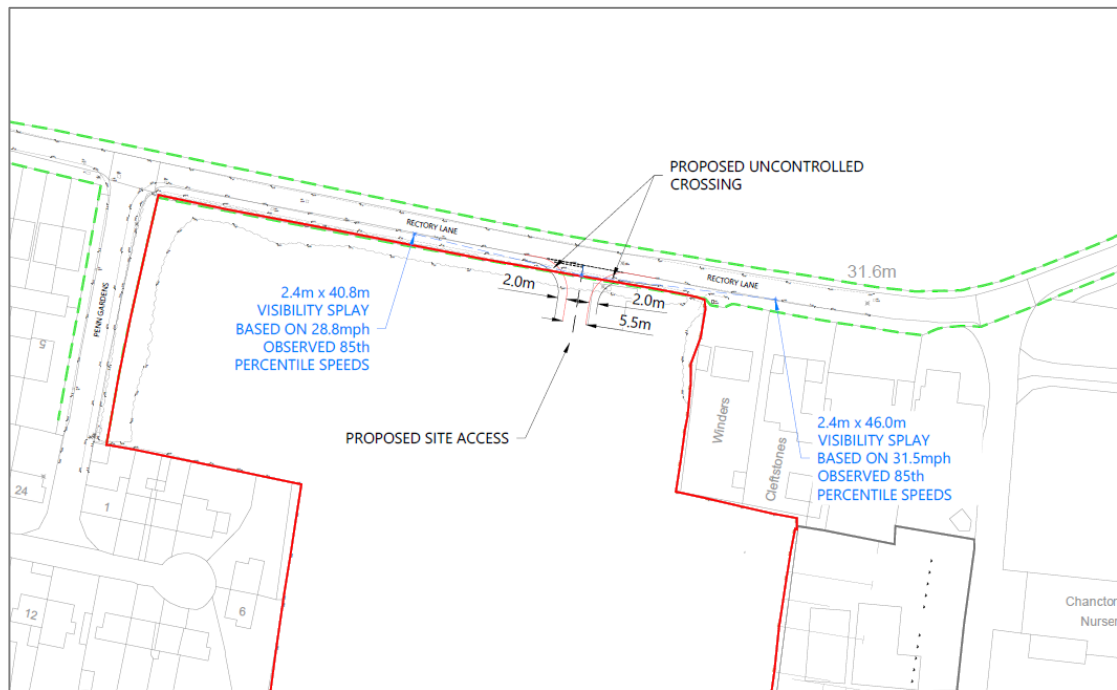
**Image 4.1: Proposed Site Layout**



## 4.2 Proposed Site Access Arrangement

4.2.1 Access to the site is proposed via a simple priority junction onto Rectory Lane on the northern boundary of the site. The access has been designed in accordance with Manual for Streets (MfS) guidance and is presented on Drawing **ITS200920-GA-004**, an extract of which is provided below.

**Image 4.2: Site Access Design**



4.2.2 The site access arm will comprise a 5.5m wide carriageway with 2m footways on both sides which will tie in with the existing footway on the southern side of Rectory Lane. The existing vegetation will be cut back and maintained to increase the effective width of the footway. Further east on Rectory Lane, and as part of the S106 Agreement for the Elivia development (ref: DC/22/0372), the vegetation will also be cut back to ensure the footway width is maximised for the duration.

4.2.3 To inform the design of the access, the 85<sup>th</sup> percentile speeds have been calculated from the ATC surveys undertaken on Rectory Lane and are summarised in **Table 4.2**, along with the subsequent visibility splay requirements.

**Table 4.2: Vehicle Speeds – Rectory Lane**

Direction	85 <sup>th</sup> Percentile Speed	Visibility Splay
Eastbound	28.8mph	40.8m
Westbound	31.5mph	46m

Source: Traffic Surveys

4.2.4 Visibility splays of 2.4m x 40.8m to the left and 2.4m x 46m to the right can be achieved, in accordance with Manual for Streets parameters.

4.2.5 The vehicular access has been subject to a Stage 1 Road Safety Audit, undertaken on 11<sup>th</sup> June 2025. No safety concerns were raised by the Auditor. The full report is attached at **Appendix D**.

### 4.3 Car and Cycle Parking

4.3.1 Car parking for the proposed development will be provided through a combination of allocated on-plot spaces and designated visitor parking, in accordance with the West Sussex Guidance on Parking at New Developments document (September 2020).

4.3.2 Ashington falls within Parking Behaviour Zone 1 of this guidance; a summary of the parking standards is set out in **Table 4.3**.

**Table 4.3: Summary of WSCC Parking Standards**

Number of Bedrooms	PBZ 1 Residential Parking Standards	Minimum Cycle Parking Requirement
1	1.5	1
2	1.7	1
3	2.2	2
4+	2.7	2

Source: Table 1 & 2 – WSCC Guidance on Parking at New Developments

4.3.3 As per the West Sussex Guidance, garages account for 0.5 spaces and 0.2 spaces per dwelling should be provided for unallocated, visitor parking.

4.3.4 The development provides 140 allocated vehicle parking spaces, 8 unallocated spaces and 22 visitor spaces, and therefore accords with the above parking standards.

#### Electric Vehicle Charging

4.3.5 In accordance with both WSCC Parking Guidance and Building Regulations – Approved Document S, each dwelling will be provided with an active electric vehicle (EV) charging point.

#### Cycle Parking

4.3.6 Cycle parking will be provided in accordance with WSCC Guidance and will be located in secure, covered locations, e.g. garages or garden sheds.

4.3.7 The flats have a dedicated cycle store providing at least one cycle space per property.

## 4.4 Servicing Arrangements

### Refuse Collection

4.4.1 The internal site layout has been designed to accommodate the movement of a 11m long refuse collection vehicle. To ensure ease of access, swept path analysis of a refuse vehicle manoeuvring throughout the layout has been undertaken and is presented on Drawing **ITS200920-GA-001**.

4.4.2 The drawing demonstrates that a refuse can safely enter, turn, and egress the site in a forward gear. In addition, the layout has been designed to ensure all bins are provided in accordance with the 'drag' distances stipulated by MfS, i.e.:

- Within 25m of the carriageway where the refuse vehicle will stop.
- No more than 30m from homes.

4.4.3 The development therefore makes adequate provision for the largest vehicle that might require regular access to the site.

### Emergency Vehicle Access

4.4.4 The site layout has also been designed to satisfy Building Regulations – Appendix B *Fire Safety*, ensuring that fire tenders will not be required to reverse more than 20m, in accordance with Paragraph 13.4. The swept path analysis of a fire tender manoeuvring around the site is demonstrated on Drawing **ITS200920-GA-002**.



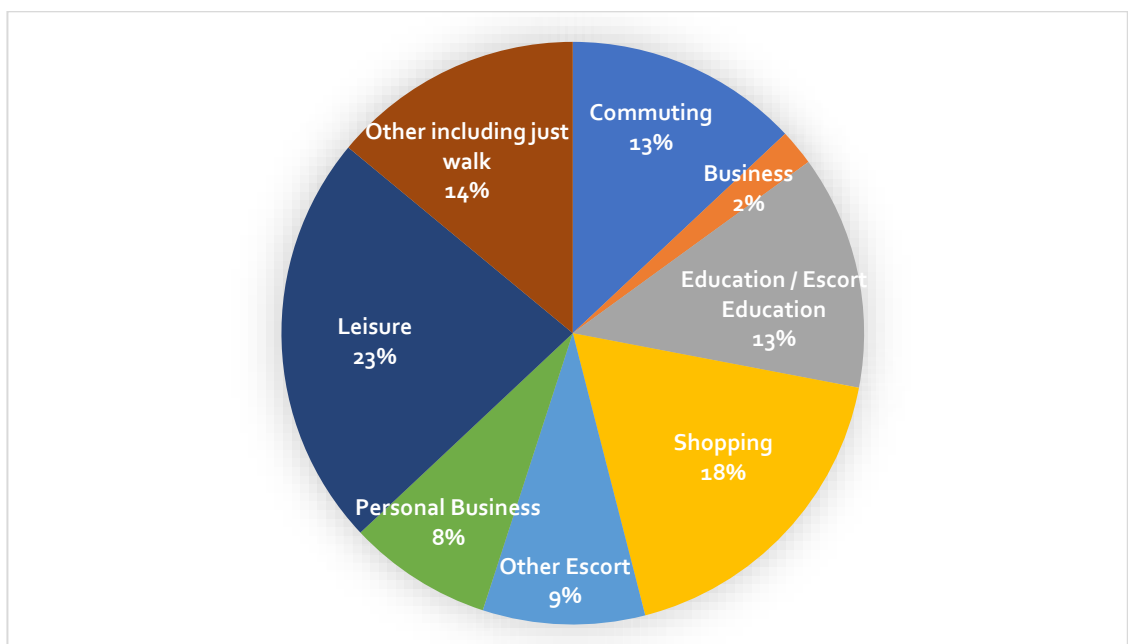
## SECTION 5 Promoting Sustainable Travel

### 5.1 Journey Purpose

5.1.1 In promoting sustainable transport, it is important to consider the reasons why future residents of the proposed development will make journeys.

5.1.2 The Department for Transport's (DfT) National Travel Survey identifies the reasons why people travel. The proportion of all trips by purpose (by all modes) is set out in **Image 5.1**.

**Image 5.1: Proportion of Trips per Year by Journey Purpose (All Modes)**



Source: Chart NTS0409a of Transport Statistics Great Britain – 2021 Edition

5.1.3 On this basis, leisure, shopping and education trips will account for more than 75% of all journeys made by future residents of the site.

5.1.4 Travel purpose is therefore well spread across a number of different journey purposes, and each type of journey will have different requirements in terms of destination, time constraints and route choice.

5.1.5 The Transport Statement therefore considers the opportunities available to the potential residents of the site to access local facilities and services by a choice of transport modes.

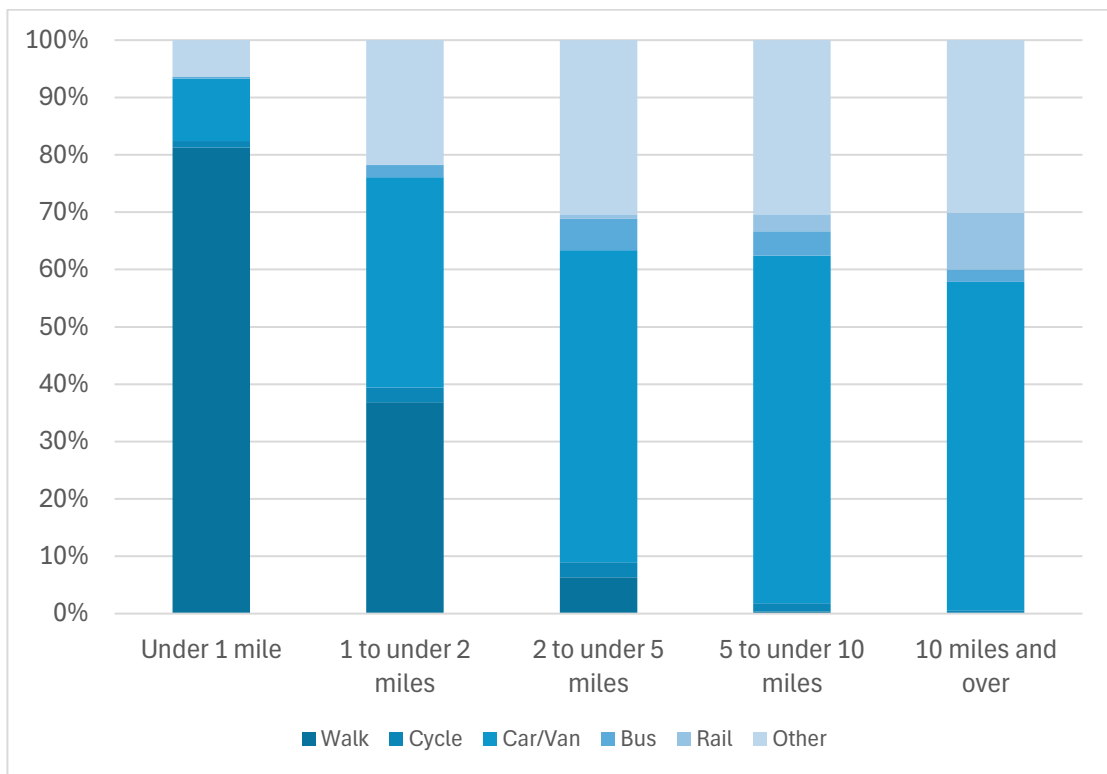
**5.2 Active Travel Accessibility**

**Walking Distances**

5.2.1 DfT’s Manual for Streets (paragraph 4.4.1) identifies that *walkable neighbourhoods* comprise those locations where facilities and services can be accessed within an 800m (10-minute) walk, but that walking distances of up to 2km offer the greatest potential to replace car trips.

5.2.2 The National Travel Survey (NTS) 2023 and CIHT ‘Planning for Walking’ 2015 identifies that the vast majority (80%) of trips of up to one mile (1.6km) are undertaken on foot, as well as 30% of trips between one to two miles, as set out in **Image 5.2**. Walking is a realistic and feasible option for many short trips.

**Image 5.2: Proportion of Trips per Year by Mode and Distance (All Purposes)**



Source: National Travel Survey, England, 2023

5.2.3 The following distances have therefore been used for assessing the likelihood of walking journeys to and from the development:

- Up to **800m** – a ‘comfortable’ walking distance.
- **800m to 1.6km** – a ‘reasonable’ walking distance i.e. the distance where circa 80% of trips will be made on foot.

- **1.6km to 3.2km** (2 miles) – an ‘acceptable’ walking distance where circa one-third of trips will be on foot.

### Cycling Distances

- 5.2.4 In terms of cycle distance, a 3-mile (5km) distance represents a reasonable everyday cycle distance, with 5 miles (8km) being an upper distance for many people. NTS 0303 identifies that average cycle trips are 3.3 miles / 5.3km. Cycling also frequently forms part of a longer journey in combination with public transport.
- 5.2.5 Paragraph 2.2.2 of the Department for Transport’s (DfT) Local Transport Note (LTN) 01/20 ‘Cycle Infrastructure Design’ (July 2020) also addresses typical cycle trip distances and states two out of every three personal trips are less than 5-miles (8km) in length which is an achievable cycling distance for most people.
- 5.2.6 On this basis, the following cycling distances have been adopted within this TS:
- Up to **5km** – a ‘reasonable’ everyday cycle distance.
  - Up to **8km** – the acceptable ‘commuter’ cycling distance.

### Active Travel England (ATE)

- 5.2.7 Active Travel England is an executive agency of the Department for Transport (DfT) and are aiming to achieve the government’s vision to increase the number of local journeys being walked, wheeled or cycled by 2030.
- 5.2.8 The ATE Planning Assessment Toolkit sets out the sustainability credentials of development proposals and identifies that a site should have a range of local facilities within an 800m (10-minute) walking distance of the site.

## 5.3 **Local Amenity Accessibility**

- 5.3.1 Considering the walking and cycling distances detailed above, there are a number of facilities and services that are commensurate with a village location, including a recreation ground, convenience store, community centre, pharmacy and primary school.
- 5.3.2 The primary destinations for future residents of the proposed development within the local area are listed in **Table 5.1** and presented on **Figure 2**. Distances to local facilities have been measured from the centre of the site using realistic walking and cycling routes along the existing networks.

**Table 5.1: Summary of Local Facilities**

Journey Purpose	Destination	Distance (m)	Walking Journey Time (mins)	Cycling Journey time (mins)
Leisure	Ashington Community Centre	1,000	12	4
	Red Lion Tavern	1,500	19	6
	Ashington Village Club	1,500	19	6
	Paw Paddock	1,800	21	7
	Sussex Equestrian Centre Ltd	1,800	24	7
Retail	Blades Barbershop	800	10	3
	Co-op Food	1,300	15	5
	Post Office	1,300	15	5
	M & S Simply Food	1,300	15	5
Employment	Sussex Removals	900	11	3
	Hitek Calibration Services	900	11	3
	IA Mackinnon Blue Bird Garage	1,100	13	4
	Monza Sport	1,700	20	6
	Brickyard Farm Employment	1,900	25	7
Education	Chanctonbury Pre-school	500	6	2
	Ashington Church of England School	1,000	12	4
	Ashington Day Nursery	1,000	12	4
Health	Well Adjusted Health	1,200	14	4
	Ashington Pharmacy	1,500	18	6

Key:

	Within 800m - a comfortable walking distance / Within 8km cycling distance
	Within 1,600m - a reasonable walking distance
	1,600m and above - a realistic / maximum walking distance

**5.3.3** The site is situated in proximity to various local facilities, particularly leisure, retail and education facilities. In terms of cycling, all of the identified local facilities and services are located within a 10-minute cycle of the site.

**5.3.4** The site will connect with the existing footway on the southern side of Rectory Road to ensure there is continuous footway provision between the site and the village.

## **5.4 Walking and Cycling Audit**

**5.4.1** An audit has been undertaken of the walking and cycling routes into Ashington village centre towards the bus stops and Co-op, as well as to the south to the primary school and community centre to identify any potential improvements to the existing infrastructure.

5.4.2 As part of the neighbouring development currently being built out by Elivia Homes (*ref: DC/22/0372*), the Section 106 document includes the upgrading of PROW footpath 2607 to facilitate year-round use for pedestrians and cyclists (resurfacing and lighting). This will provide a suitable and accessible route directly to the primary school and community centre, as well as being an alternative off-road route into the village. The development obligation also includes vegetation clearance along Rectory Lane to increase the effective width of the footway, a measure that will be extended

5.4.3 These improvements delivered by the neighbouring scheme will benefit and improve walking routes into Ashington for future residents of the development. The Applicant is willing to improve this further by introducing a dropped kerb / tactile paving crossing on London Road to improve access to the southbound bus stop. Tactile paving is also proposed at the following junctions:

- Blakiston Close / Rectory Lane Junction
- Rectory Lane / Meiros Way Junction
- The Sands / Rectory Lane Junction
- Rectory Lane / Rectory Close Junction

5.4.4 These improvements are illustrated on **Figure 3** and will provide a continuous, safe walking route for new and existing residents.

## 5.5 Bus Stops

5.5.1 As part of the WSCC pre-application response, it was suggested that consideration be given as to whether any improvement of the bus stop infrastructure could be accommodated.

5.5.2 Drawing **ITS200920-GA-005** presents a scheme of improvements to replace the existing bus shelters and seating, as well as provide new cycle stands within the highway verge close to the stops.

5.5.3 Two new uncontrolled pedestrian crossings, with dropped kerbs and tactile paving, are proposed to the north and south of Rectory Lane providing connectivity to each bus stop across London Road.

## 5.6 Travel Plan Statement

5.6.1 In line with the draft 'West Sussex County Council Development Travel Plan Policy' document, a separate Travel Plan Statement (TPS) has also been prepared (ref: ITS200920-003). The WSCC Policy identifies that residential Travel Plans should provide a **“commitment to delivering a range of measures to promote sustainable modes of transport”**. In this regard, the TPS identifies the following measures:

- Appointment of a Travel Plan Coordinator.
- Provision of a travel 'Welcome Pack' to provide travel information to residents.
- Promotion of West Sussex car sharing scheme.
- Promotion of home supermarket delivery services.
- Incentives to the use of sustainable travel – e.g., a travel voucher for use on cycle equipment or public transport season tickets.

5.6.2 The TPS will ensure opportunities to travel sustainable are taken up in line with the transport vision for the site, consistent with the requirements of the NPPF.

5.6.3 An indicative Action Plan is provided in **Table 5.2**, which summarises the comprehensive package of measures proposed to be delivered to encourage sustainable access to and from the site. Further details are provided within the TPS that accompanies the application.

**Table 5.2: Indicative Action Plan – Sustainable Transport Strategy**

Measure		Timescale
Travel Plan Coordinator		Appointed prior to first occupation and retained through the TP period
Full Travel Plan		Agreed with WSCC prior to first occupation
Information Development and Provision	Production of travel Welcome Packs	Upon first occupation
Promote car share scheme through liftshare.com		Within Welcome pack
Walking and Cycling Maps		Within Welcome Pack
Promote cycle maintenance groups and negotiate discounts with providers		Ongoing
Promote health benefits with walking and cycling		Ongoing
Public Transport Information		Within Welcome Pack
Sustainable Travel Voucher incentive		Within Welcome Pack

## 5.7 **Summary**

5.7.1 In summary, the proposed development provides appropriate opportunities to promote the use of sustainable transport modes, with a full audit assessing the available walking and cycling routes. This is consistent with the requirements of paragraph 115 of the NPPF.

## SECTION 6 Traffic Impact

### 6.1 Development Traffic Generation

6.1.1 To establish the traffic generated by the proposed development, trip rates have been derived from comparable survey data contained within the TRICS trip generation database. The peak hour trip rates are summarised below and have been accepted by WSCC at pre-application stage.

**Table 6.1: Trip Rates and Traffic Generation**

	Morning Peak Hour			Evening Peak Hour		
	In	Out	Two-way	In	Out	Two-way
Trip Rate (per dwelling)	0.157	0.317	0.474	0.280	0.150	0.430
Traffic Generation (74 dwellings)	12	23	35	21	11	32

Source: TRICS

6.1.2 The WSCC Transport Assessment Methodology Guidance outlines that where a development results in an increase of 30 or more movements through a junction at any hour, junction capacity testing should be undertaken.

6.1.3 On this basis, the site access junction has been subject to capacity testing, but beyond this traffic will be dispersed towards the A24 to the east and Storrington to the west and therefore no further off-site junction capacity testing was undertaken. This approach was accepted by WSCC during pre-application discussions.

### 6.2 Traffic Growth and Distribution

6.2.1 The site access has been assessed for a 2030 future year (five years post planning application) using TEMPro peak period traffic growth rates for the Horsham 015 MSOA:

- AM Peak: 1.0550
- PM Peak: 1.0603

6.2.2 Traffic has been distributed based on an 80/20% split with the majority of traffic routing towards the A24 for journeys towards Worthing and Horsham.



### 6.3 Junction Capacity Assessment

6.3.1 An operational assessment of the proposed site access has been undertaken using the industry-standard modelling software Junctions 11. A 2030 'with development' scenario has been tested and is summarised in **Table 6.2** below. The full junction outputs are provided at **Appendix E**.

**Table 6.2: Junction Capacity Assessment for Rectory Lane / Site Access Junction**

Arm	AM Peak			PM Peak		
	RFC	Queue (veh)	Delay (s/veh)	RFC	Queue (veh)	Delay (s/veh)
<b>2030 with Development</b>						
Site Access	0.05	0	7.49	0.02	0	7.46
Rectory Lane	0.00	0	6.04	0.01	0	6.20

Source: Junctions 11

6.3.2 The results demonstrate that the site access junction will operate well within capacity with minimal queuing and delay.

### 6.4 Summary

6.4.1 The traffic impact assessment demonstrates that the proposed development of 74 dwellings is expected to generate a modest level of additional vehicle movements, with up to 35 movements during the peak hours. A future year assessment of the proposed site access accounting for background traffic growth, indicate that the access will operate well within capacity. As such, the proposed development is not expected to have a significant impact on the operation of the local highway network, in accordance with the requirements of the NPPF

---

## SECTION 7 Summary and Conclusions

### 7.1 Summary

- 7.1.1 Rocco Homes has appointed i-Transport LLP to provide transport and highways advice in relation to a full planning application comprising 74 new homes on land east of Mousdell Close and south of Rectory Lane, Ashington.
- 7.1.2 The site is located to the west of Ashington, with a small number of residential properties to the east and west of the site, and agricultural fields to the north and south.
- 7.1.3 Access to the site is proposed via simple priority junction onto Rectory Lane with footways on both sides of the carriageway to tie into the existing footway on the southern side of Rectory Lane.
- 7.1.4 The closest bus stops to the site are located on London Road, circa 900m east of the site and provide an hourly service to Horsham, Crawley and Worthing where further facilities and services can be accessed, as well as rail stations.
- 7.1.5 The closest railway station is Pulborough Station, approximately 9km from the site with services towards London Victoria, Barnham and Bognor Regis. Further rail services are available from Horsham or Worthing, which are both served bus service 23, and offer onward connections to London Victoria, Southampton, Brighton, Portsmouth, Bognor Regis, Peterborough and Littlehampton.
- 7.1.6 A Travel Plan Statement is provided in conjunction with this Transport Statement and provides a commitment to delivering a range of measures to promote sustainable modes of transport.
- 7.1.7 The site layout has been designed in accordance with national and local design guidance and allows for the safe access of a refuse vehicle and fire tender to enter and turn within the site.
- 7.1.8 Car and cycle parking is provided in accordance with WSCC guidance and an electric vehicle charging point will be provided for all dwellings.
- 7.1.9 The proposed development is expected to generate 35 and 32 two-way vehicle movements during the morning and evening peak periods respectively; a negligible impact. The site access junction has been subject to capacity testing which is forecast to operate well within capacity with minimal queuing and delay. Beyond this, traffic will disperse west towards Storrington and east towards the A24 and therefore no further capacity testing has been undertaken.

## 7.2 Conclusion

### 7.2.1 In conclusion:

- The proposed development provides safe and suitable access onto Rectory Lane.
- The site is within a reasonable walking and cycling distance of facilities in Ashington and bus stops on London Road. There are also opportunities to promote sustainable transport modes through an accompanying Travel Plan.
- The development has been designed in line with national design guidance, and parking is provided in accordance with local parking standards.
- The impact of traffic generated by the proposed development on the operation of the highway network is imperceptible and falls short of the 'severe' residual cumulative impact' test.

7.2.2 The proposals therefore meet the requirements of WSCC Transport Plan, as well as Horsham District Planning and the requirements for sustainable transport set out in the National Planning Policy Framework (Paragraph 115).

## FIGURES

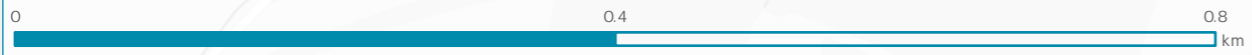
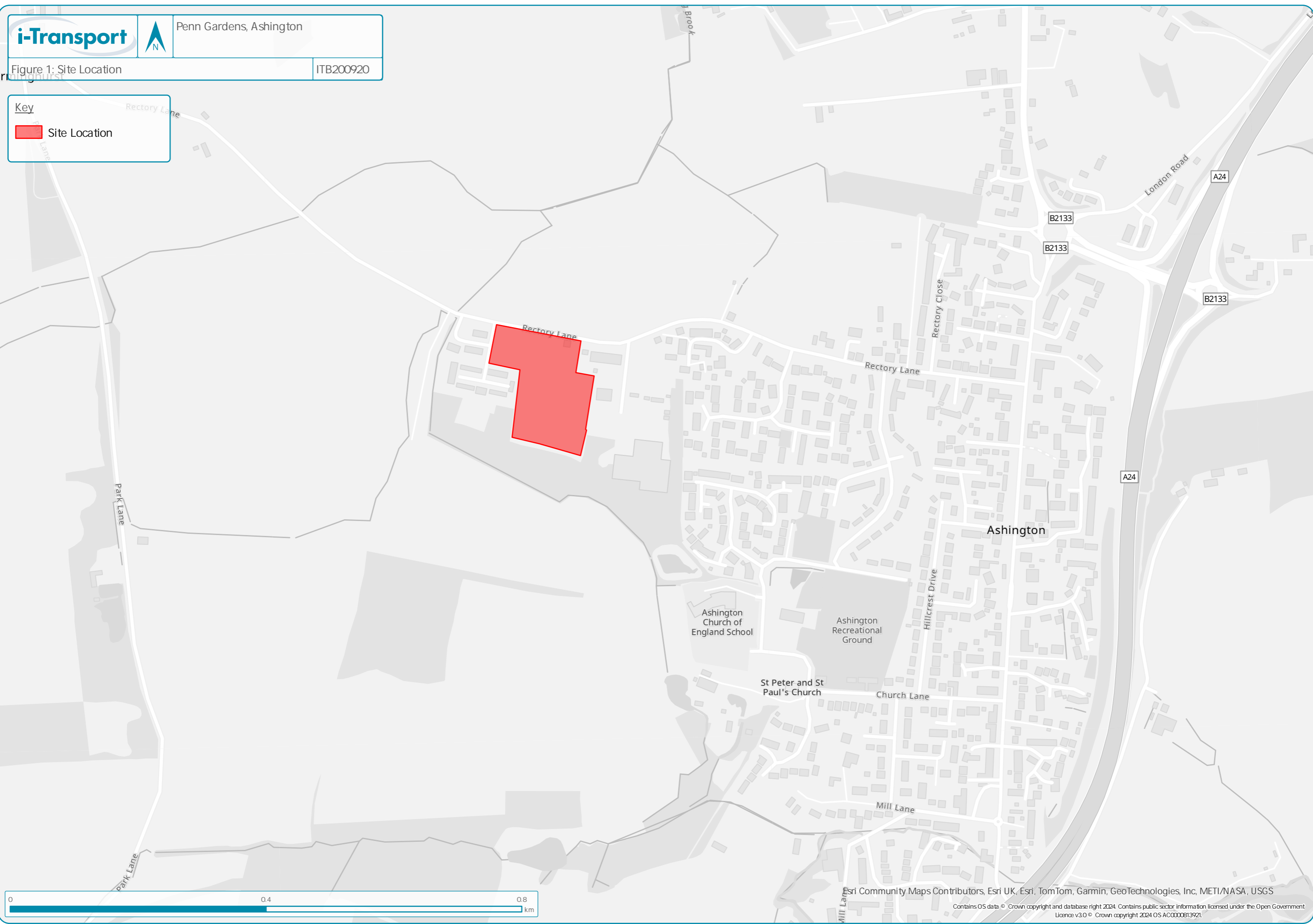


Figure 1: Site Location

ITB200920

Key

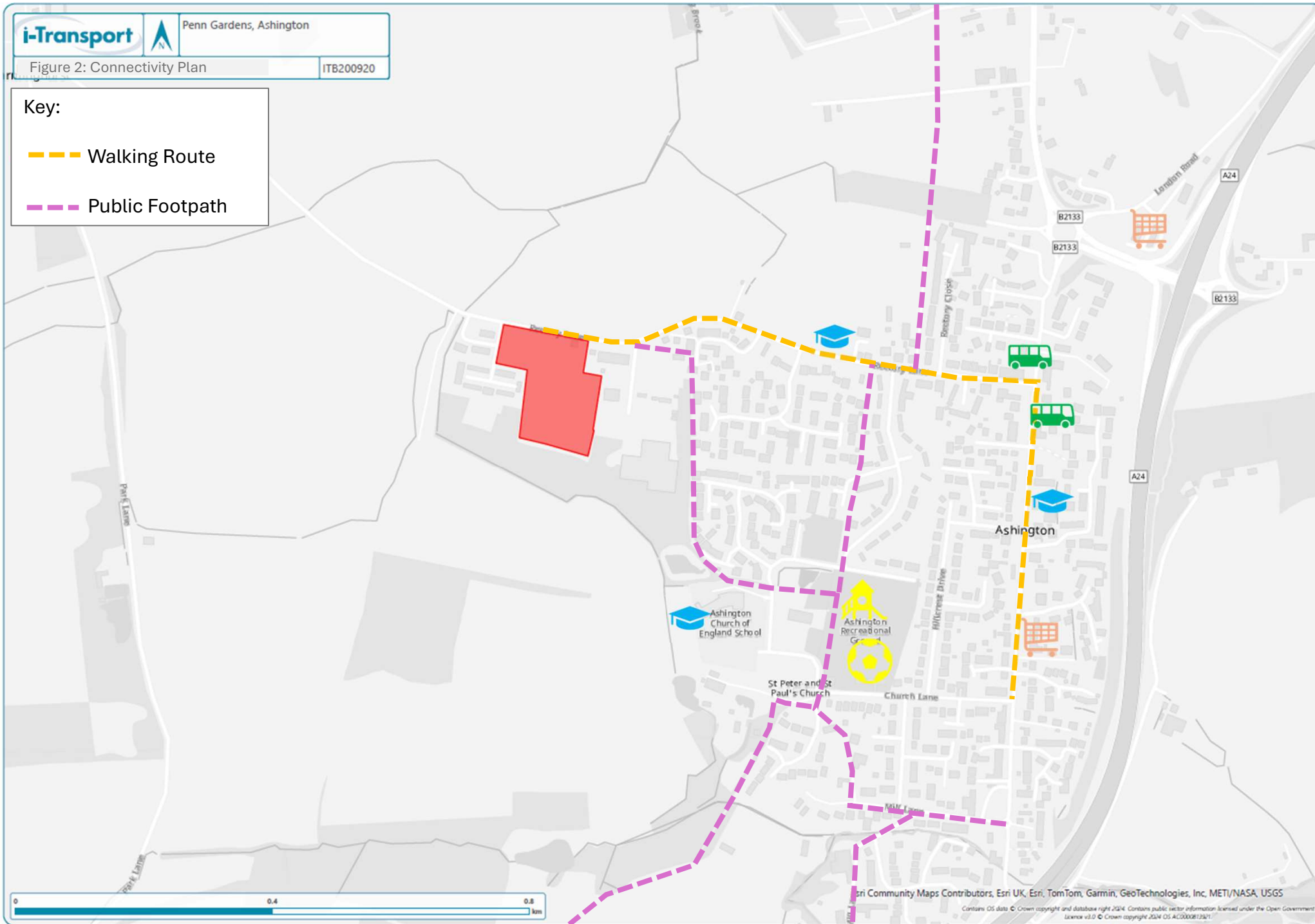
Site Location



Key:


Walking Route


Public Footpath

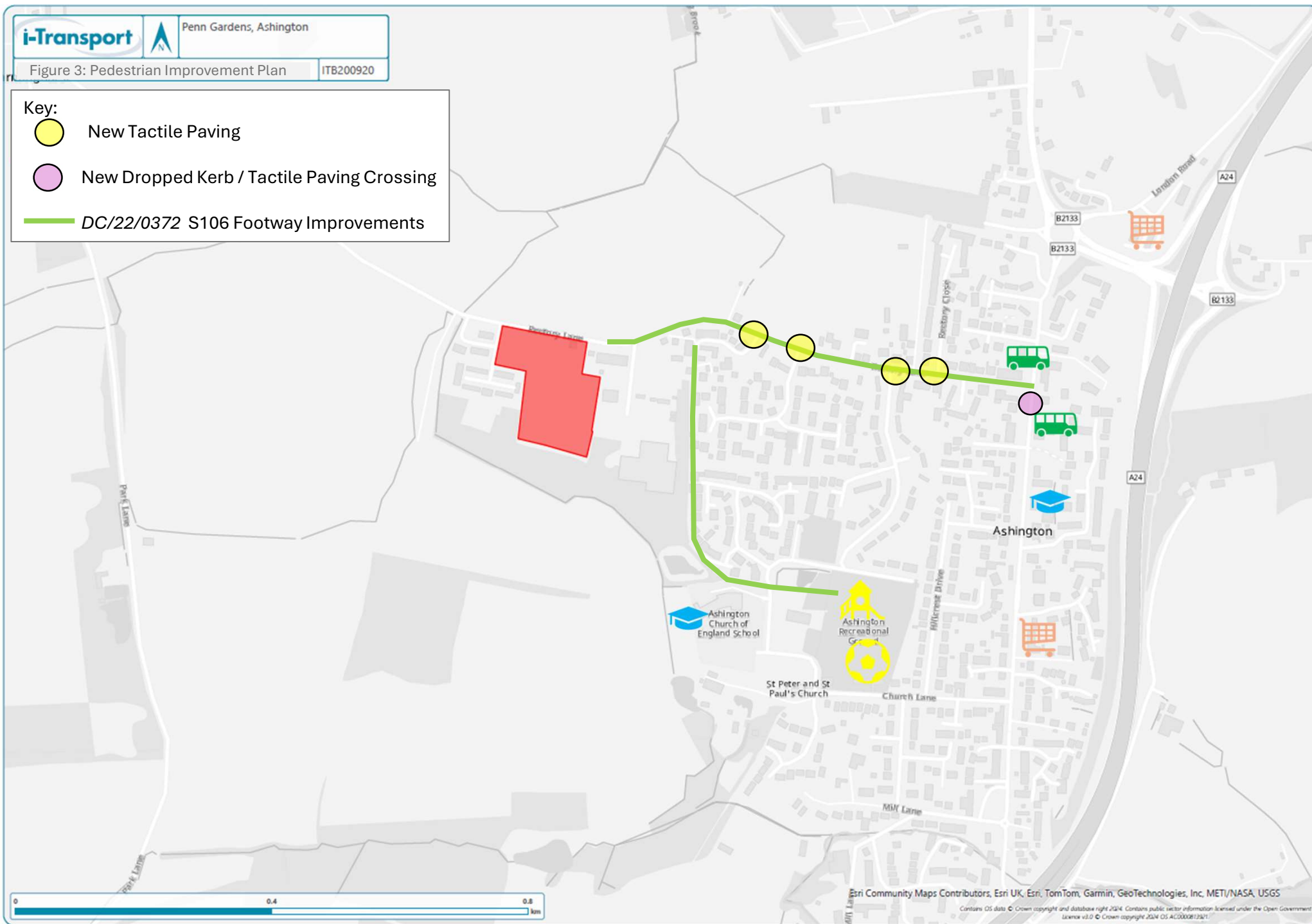


Key:

 New Tactile Paving

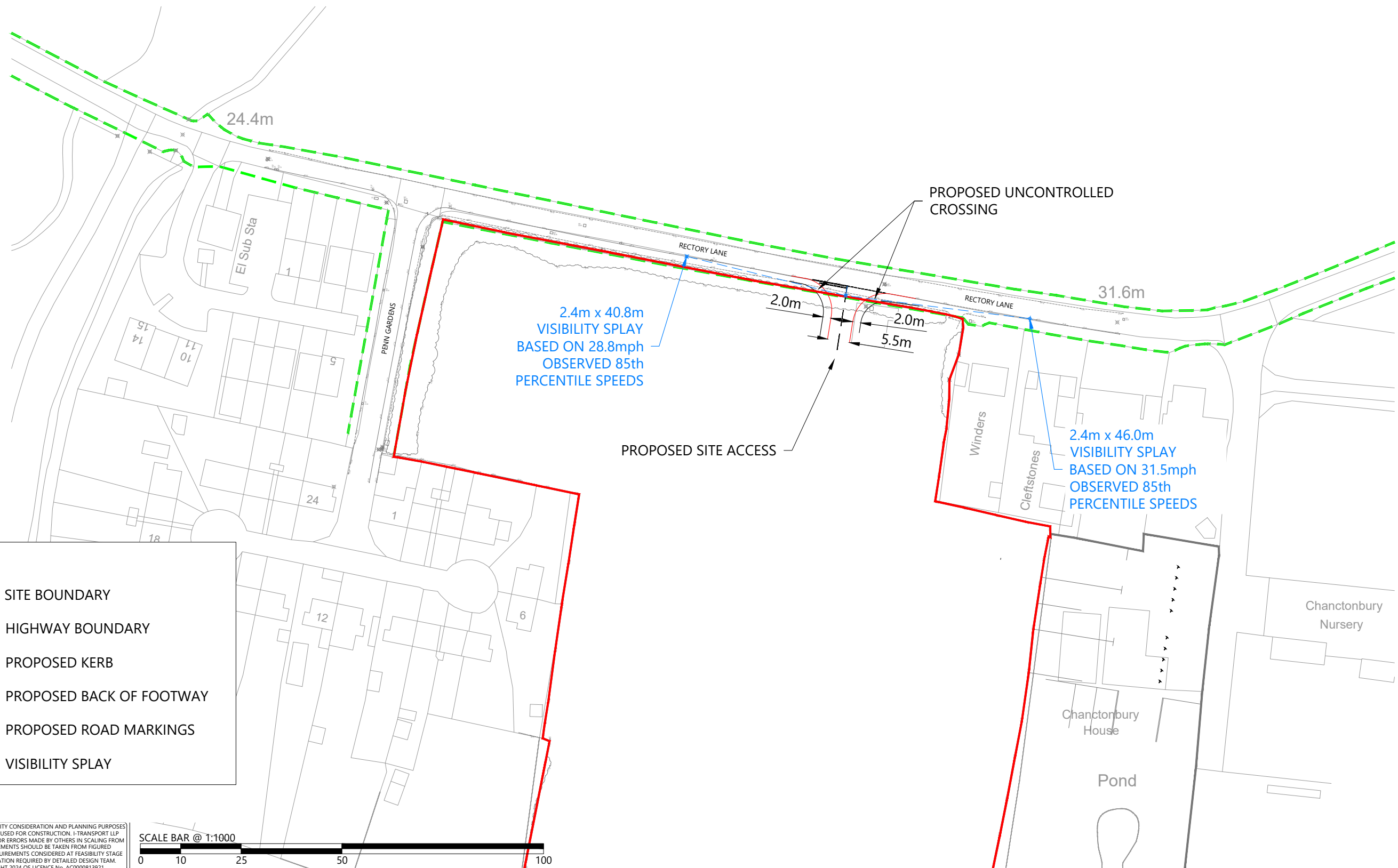
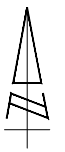
 New Dropped Kerb / Tactile Paving Crossing

 DC/22/0372 S106 Footway Improvements



# DRAWINGS

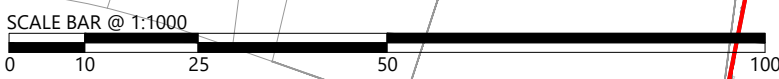




**KEY:**

- SITE BOUNDARY
- - - HIGHWAY BOUNDARY
- PROPOSED KERB
- PROPOSED BACK OF FOOTWAY
- - - PROPOSED ROAD MARKINGS
- - - VISIBILITY SPLAY

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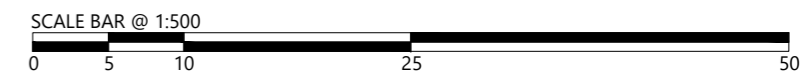
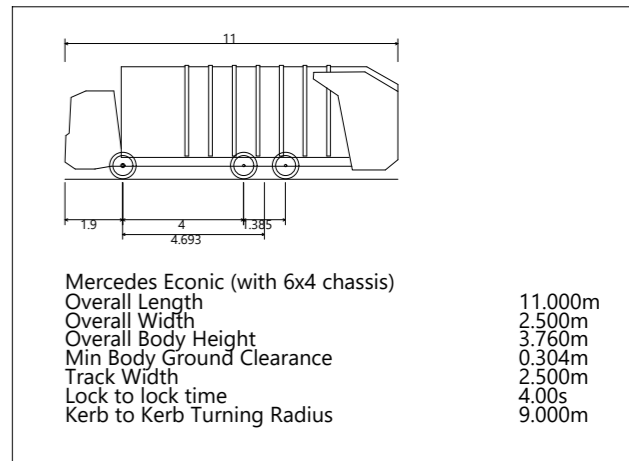
Lakeside North Harbour, Building 1000, Lakeside North Harbour Western Road, Portsmouth, Hampshire, PO6 3EZ  
 Tel: 03316 300366  
 www.i-transport.co.uk

REV		DATE	BY	DESCRIPTION	CHK	APD	TITLE: PROPOSED SITE ACCESS ARRANGEMENT	
STATUS: FOR INFORMATION						PROJECT: PENN GARDENS, ASHINGTON	CLIENT: ROCCO HOMES	DRAWN: TA
								CHECKED: LJ
								APPROVED: DS
						PROJECT No: ITS200920	SCALE @ A3: 1:1000	DATE: 07.04.25
								DRAWING No: ITS200920-GA-004
								REV: A

S:\Projects\200920 Series\20092015 - Penn Gardens Ashington\Tech\Arch\1-Transport Drawings\Working Drawings\ITS200920-GA-004.dwg



KEY:  
 - - - OPERATIVE DRAGGING DISTANCE



REV	DATE	BY	DESCRIPTION	CHK	APP
B	29.07.25	TA	SITE LAYOUT HAS BEEN UPDATED	U	DS
A	03.07.25	TA	SITE LAYOUT HAS BEEN UPDATED	U	DS

STATUS: FOR INFORMATION



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 Hampshire, PO6 3EZ  
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TITLE: SWEPT PATH ANALYSIS - REFUSE VEHICLE

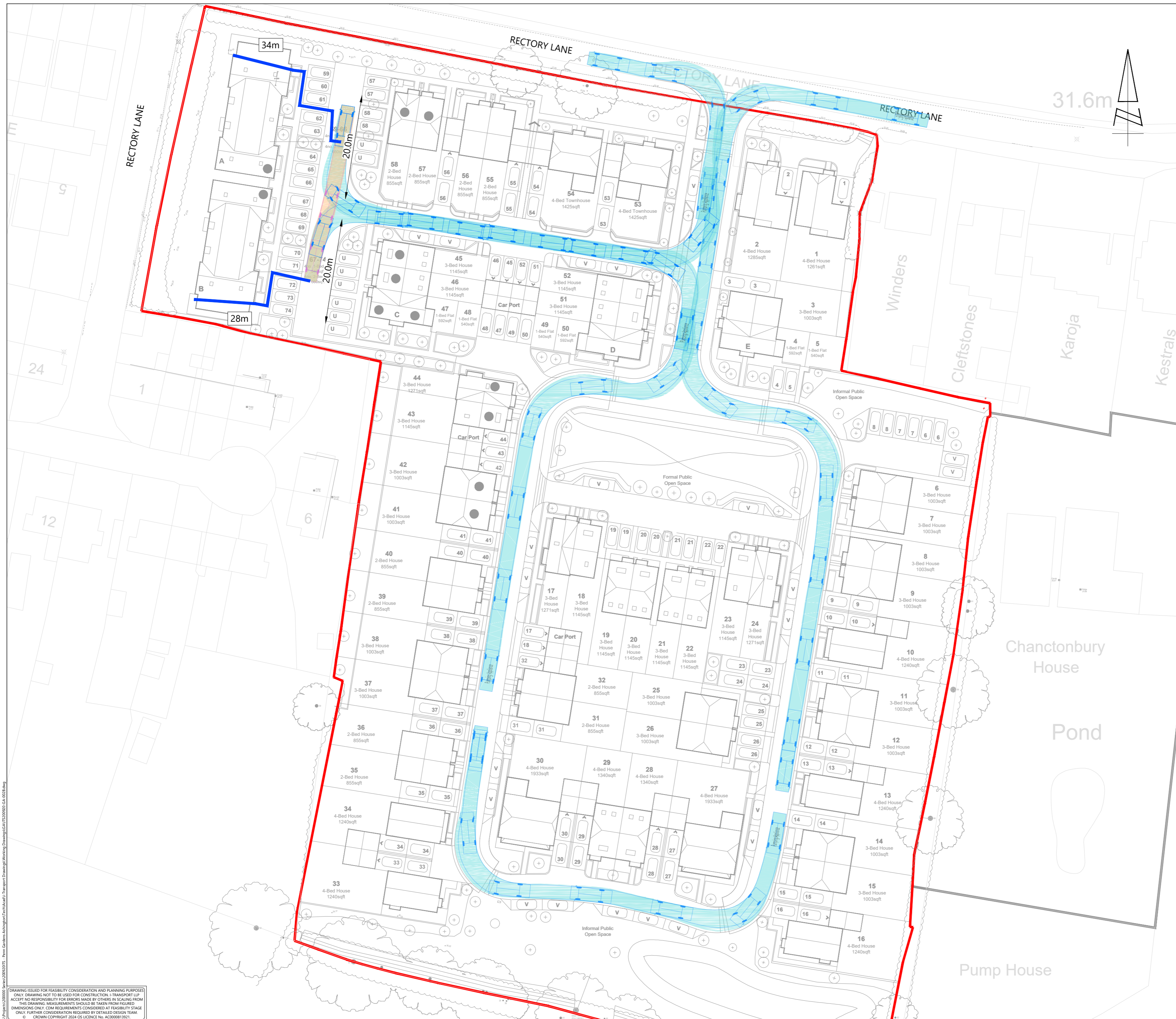
PROJECT: PENN GARDENS, ASHINGTON

CLIENT: ROCCO HOMES

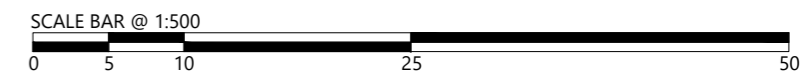
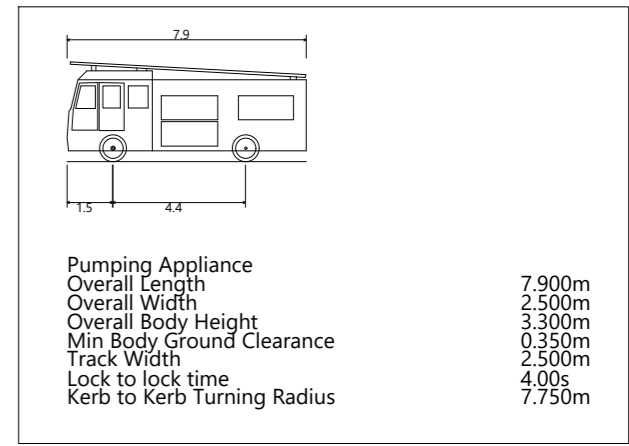
DRAWN: TA	CHECKED: LJ	APPROVED: DS
PROJECT No: ITS200920	SCALE @ A2: 1:500	DATE: 03.04.25

DRAWING No: ITS200920-GA-001 REV: B

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KEY:  
 VEHICLE HOSE DISTANCE



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A	03.07.25	TA	SITE LAYOUT HAS BEEN UPDATED	U	DS

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TITLE: SWEPT PATH ANALYSIS - FIRE VEHICLE

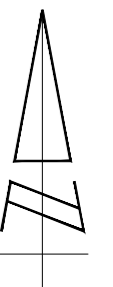
PROJECT: PENN GARDENS, ASHINGTON

CLIENT: ROCCO HOMES

DRAWN: TA	CHECKED: LJ	APPROVED: DS
PROJECT No: ITS200920	SCALE @ A2: 1:500	DATE: 03.04.25

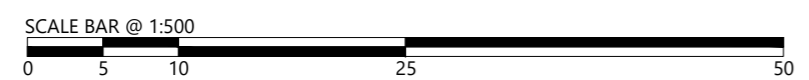
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**KEY:**

	HIGHWAY BOUNDARY
	PROPOSED DROPPED KERB
	PROPOSED TACTILE PAVING
	PROPOSED CYCLE STAND



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REV	DATE	BY	DESCRIPTION	CHK	APD
STATUS: FOR INFORMATION					

TITLE: PROPOSED BUS STOP AND PEDESTRIAN IMPROVEMENTS	
PROJECT: PENN GARDENS, ASHINGTON	CLIENT: ROCCO HOMES

DRAWN: TA	CHECKED: LJ	APPROVED: DS
PROJECT No: ITS200920	SCALE @ A2: 1:500	DATE: 28.07.25
DRAWING No: ITS200920-GA-005		REV: -

## **APPENDIX A.** WSCC Pre-application Response

## WEST SUSSEX COUNTY COUNCIL CONSULTATION

<b>TO:</b>	Developer (Developer Pre App Only) FAO: Lucy Jardine
<b>FROM:</b>	WSSC – Highways Authority
<b>DATE:</b>	9 May 2025
<b>LOCATION:</b>	LAND PARCEL AT 512270 115959 PARK LANE ASHINGTON WEST SUSSEX RH20 3AR
<b>SUBJECT:</b>	PRE-31-25 Promotion of residential development of up to 75 dwellings.
<b>DATE OF SITE VISIT:</b>	n/a
<b>RECOMMENDATION:</b>	Advice

Comments are made in respects of,

- Transport Statement Scoping Note, reference LJ/AJ/ITS200920-001A, dated 24 April 2025
- Proposed Site Access Arrangement, drawing number ITS200920-GA-004, no revision

Unless otherwise stated, comments are made against the numbered points within the Scoping Note.

2.1.2 – It's noted that reference is made in the first bullet point to the need to account for the 'vision' for the site. There is mention of the anticipated transport 'vision' in 3.5.1. WSSC will expect a clear 'vision' to be included in the Transport Statement supporting any future planning application. WSSC acknowledge that any 'vision' will need to respect the context of the site and be proportionate to the overall scale of the development.

The fourth bullet point also appears to misquote paragraph 116 of the NPPF. Paragraph 116 is perhaps broader in its consideration in terms of unacceptable safety impacts or other severe cumulative impacts, rather than just solely related to capacity based issues.

3.1.1 – There is reference to the use of rights of way. Again, the use of these need to be considered from a practical point of view and in terms of all potential users; surfacing and width, and the lack of overlooking may mean the use of the rights of way for some is not an option.

3.2.6 – The rights of way network are noted. The comments made in 3.1.1 above are very much applicable. Note that a scheme of improvements was secured through the neighbouring development permitted under DC/22/0372.

3.4 – The walking distance from the site to the nearest bus stop is notably greater than the recommended 400metres. The greater distance isn't necessarily an issue; ultimately if residents need to use the bus, the walking distance will be factored in to their journey. It is then whether other measures (e.g. cycle parking) could be included at the bus stops to add to the means by which the bus stop could be accessed.

3.5.2 – As alluded to in 3.5.1, an assessment should be undertaken of walking routes to key destinations within the village with suitable improvements then identified as part of this.

3.5.3 – It's presumed that walking and cycling distances are measured from the centre of the site. Based on table 3.1, it is accepted that all services within the village are within reasonable walking and cycling distance.

3.5.6 – EV charging is now a requirement under Part S of the Building Regulations and as such would be provided regardless.

3.7 – The extent of the area for which PIA data will be sought is accepted.

4.2.1 – There are no in-principle issues raised with the access shown. It's recognised that the access will be subject to a Stage One Road Safety Audit and that visibility splays are to be determined by future speed surveys.

4.3.1 – The layout is noted as illustrative and so limited review has been undertaken at this stage. The only comment at this time would be in regards of footways. For future highway adoption, where dwellings front onto a carriageway, a footway must be provided across the frontage unless of course it's a shared surface.

5.2.1 – There are no particular issues with the trip rates proposed and as such these are accepted.

5.2.3 – It's accepted that the development will generate relatively few trips and as such the limited extent of modelling is agreed.

5.2.4 – The future year is considered appropriate. No mention is made of committed developments (e.g. DC/22/0372). A review should be undertaken to see if there are any other relevant developments that should be included.

I note there is DC/23/0406 also. This is undetermined and may not be relevant to the proposed development.

**Ian Gledhill**  
**West Sussex County Council – Planning Services**

## **APPENDIX B.** Traffic Survey Outputs





















## **APPENDIX C.** Site Layout



Accommodation Schedule				
<b>Affordable Dwellings</b>		<b>(26no. - 35.1%)</b>		
<b>Affordable Rent</b>				
4no.	1-Bedroom Flats	Up to 2.5 Storeys	Blocks A and B	540sqft
4no.	1-Bedroom Flats - M4(3)	Up to 2.5 Storeys	Blocks A and B	660sqft
8no.	2-Bedroom Flats	Up to 2.5 Storeys	Blocks A and B	660sqft
1no.	3-Bedroom Townhouses	2.5 Storeys	Semi / Terraced	1145sqft
1no.	3-Bedroom Townhouses	2.5 Storeys	Semi / Terraced	1271sqft
<b>Shared Ownership</b>				
1no.	1-Bedroom Flats	2 Storeys	Block C	540sqft
1no.	1-Bedroom Flats	2 Storeys	Block C	592sqft
2no.	2-Bedroom Houses	2 Storeys	Semi-Detached	855sqft
2no.	3-Bedroom Houses	2 Storeys	Semi-Detached	1003sqft
2no.	3-Bedroom Townhouses	2.5 Storeys	Semi / Terraced	1145sqft
<b>Open Market Dwellings (48no. - 64.9%)</b>				
2no.	1-Bedroom Flats	2 Storeys	Block D/E	540sqft
2no.	1-Bedroom Flats	2 Storeys	Block D/E	592sqft
8no.	2-Bedroom Houses	2 Storeys	Semi-Detached	855sqft
13no.	3-Bedroom Houses	2 Storeys	Semi-Detached	1003sqft
8no.	3-Bedroom Houses	2.5 Storeys	Semi-Detached	1145sqft
5no.	4-Bedroom Houses	2 Storeys	Detached	1240sqft
1no.	4-Bedroom Houses	2 Storeys	Detached	1261sqft
2no.	3-Bedroom Houses	2.5 Storeys	Semi-Detached	1271sqft
1no.	4-Bedroom Houses	2 Storeys	Detached	1285sqft
2no.	4-Bedroom Houses	2.5 Storeys	Semi-Detached	1340sqft
2no.	4-Bedroom Houses	2 Storeys	Detached	1425sqft
2no.	4-Bedroom Houses	2 Storeys	Detached	1933sqft
<b>Total: 74 Dwellings [2.19 Ha approx. to Overall Ownership Line - 33.78 Dw/Ha]</b>				
<b>Car Parking Generally:</b>				
1 space per 1-Bedroom Flat				
1.5 spaces per 2-Bedroom Flat				
2-3 spaces per 2 and 3-Bedroom House (incl. open car barns)				
3 spaces per 4-Bedroom House (incl. garages)				
23 visitor spaces (1 per 3.26 dwellings)				

A	25.07.25	Updated Site Layout	CV	KE
Rev	Date	Revision Details	Dr	Ch

**ECE Architecture**  
www.ecearchitecture.com

London: 76 Great Suffolk Street, London, SE1 0BL  
T 0207 928 2773 E london@ecearchitecture.com

Sussex: 64 - 68 Brighton Road, Worthing, West Sussex, BN11 2EN  
T 01903 248777 E sussex@ecearchitecture.com

Bristol: Westworks, Beacon Tower, Colston Street, Bristol, BS1 4XE  
T 0117 214 1101 E bristol@ecewestworks.com

Client's Name  
**Rocco Homes**

Job Title  
**Land East of Penn Gardens, Ashington, West Sussex**

Drawing Title  
**Proposed Site Layout**

Scale  
**1:500 @ A1 / 1:1000 @ A3**

Drawn	Checked	Date
CV	KE	16.07.25
Job No	Drawing No	Rev
7578	PL01	A

Status  
**APPROVAL**

CAD Plot date: 25/07/2025 - 14:22:22

## **APPENDIX D.** Stage 1 Road Safety Audit

PENN GARDENS,  
RECTORY LANE,  
ASHINGTON,  
WEST SUSSEX

Stage 1 Road Safety Audit  
J190573

Rocco Homes

07<sup>th</sup> July 2025



**GR 119**  
**Grange Transport Consulting**

Tel: +44 (0)7912 160 303 Email: [info@grange-transport.co.uk](mailto:info@grange-transport.co.uk) Web: [www.grange-transport.co.uk](http://www.grange-transport.co.uk)  
Grange Transport Consulting Ltd registered in England and Wales No.13643298  
Registered office: 119 Grange Road, Banbury, Oxfordshire, OX16 9AT



# Penn Gardens, Rectory Lane, Ashington, West Sussex

## Stage 1 Road Safety Audit

### J190573

July 2025

Client: Rocco Homes

<b>Scheme:</b>	Penn Gardens, Rectory Lane, Ashington, West Sussex		
<b>Issue Date:</b>	07.07.25		
<b>Document reference and Revision:</b>	250707_J190573_Ashington_RSA1_Final.docx Rev 1.0		
<b>Prepared by:</b>	Wing Lee	<b>Date:</b>	13.06.25
<b>Checked by:</b>	Ian Medd	<b>Date:</b>	13.06.25
<b>Authorised by:</b>	Wing Lee	<b>Date:</b>	07.07.25
<b>Status:</b>	For issue	<b>Date:</b>	07.07.25

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# 1. Introduction

## 1.1 General

1.1.1 This report results from a Stage 1 Road Safety Audit (RSA) carried out on Friday 13 June 2025. The audit was undertaken on behalf of Rocco Homes, in regard to the site access arrangements for a residential development from Rectory Lane in Ashington.

1.1.2 The audit has been requested by Lucy Jardine of i-Transport LLP. An Audit Brief has not been supplied. The Audit Team were approved by Lucy Jardine of i-Transport LLP.

1.1.3 The Road Safety Audit team comprised of the following individuals:

Wing Lee      BEng(Hons), PGCert, MSoRSA, HE Cert Comp, MCIHT, MIHE  
**Audit Team Leader**

Ian Medd      MCIHT, FSoRSA  
**Audit Team Member**

1.1.4 A site visit was undertaken by the Audit Team on Wednesday 11 June 2025, between the hours of 12:00 and 12:45. The weather was sunny and the road surface was dry. Traffic was minimal, as was the level of pedestrians and cyclists observed passing the site. It was observed that road works were being undertaken to the east of the site, and included signage suggesting that a section of Rectory Lane was closed, however traffic was able to pass the road works.

## 1.2 Site Location

1.2.1 The site comprises of a section of Rectory Lane, between Penn Garden and Chantonbury Nursery, at the western extent of Ashington, West Sussex. The site is on the southern side of Rectory Lane. A site location plan is shown at **Appendix A**.

## 1.3 Strategic Decisions

1.3.1 The Audit Team has not been advised of any strategic decisions made by the planning or highway authorities in relation to the development scheme.

## 1.4 Highway description

1.4.1 Rectory Lane is a single carriageway road and subject to the national speed limit. It has a width of approximately of 4.8 metres and a footway is provided on the southern side. To the east of the site, Rectory Lanes serves residential dwellings, whilst to the west it is rural in nature.

1.4.2 In the vicinity of the site, the horizontal alignment of Rectory Lane is straight, however there is a left-hand bend in the eastbound direction, to the east of the site. The vertical alignment is generally level.

1.4.3 A review of the Sussex Safer Roads website indicates that no collisions were recorded along Rectory Lane during the 5-year period between 29/02/20 and 28/02/25.

## 1.5 Previous Road Safety Audits

1.5.1 The Audit Team has not been made aware of any previous Road Safety Audits carried out for the junction proposals.



### 1.6 Scheme proposals

1.6.1 The proposals submitted for this Stage 1 Road Safety Audit relate only to the following site access works in association with the residential development:

- New site access;
- New kerbing;
- New road markings;
- Visibility splays; and
- New footways.

### 1.7 Departures from Standards

1.7.1 The Audit Team has not been informed of any departures from standards relating to the designs submitted for audit.

### 1.8 Road Safety Audit

1.8.1 The Road Safety Audit has been carried out in accordance with the principals of the National Highways document, as described in the Design Manuals for Roads and Bridges (DMRB) standard - GG119 Road Safety Audit.

1.8.2 The Audit Team has examined and reported only on the road safety implications of the scheme as presented by i-Transport LLP, and has not examined / verified the compliance of the designs to any other criteria. The Audit Team may occasionally refer to design standards without touching on technical audit to clearly explain a safety problem or the recommendation to resolve a problem.

1.8.3 The Road Safety Audit includes a desktop study where all documents provided by the Design Team have been reviewed. A list of the documents and drawings submitted for this Stage 1 Road Safety Audit can be found at **Appendix B**.

1.8.4 The submitted design drawings have been annotated to show the location of problems identified during this Stage 1 Road Safety Audit, which are shown at **Appendix C**.

1.8.5 Recommendations offered within this report should not be regarded as prescriptive. There may be equally satisfactory or superior alternative solutions to the identified problems. The Audit Team will be pleased to consider any alternatives if required.





## 2. Problems identified from this audit

### 2.1 Rectory Lane

2.1.1 There were no problems identified by the Audit Team during this Stage 1 Road Safety Audit.



### 3. Audit Team Statement

3.1.1 We certify that the drawings listed at **Appendix B** have been examined, and that this Audit has been carried out in accordance with the principles and requirements of GG119, with the sole purpose of identifying road safety matters to be addressed in order to improve the safety of the scheme.

#### Road Safety Audit Team Leader

Signed: 

Name: Wing Lee

Date: 07.07.25

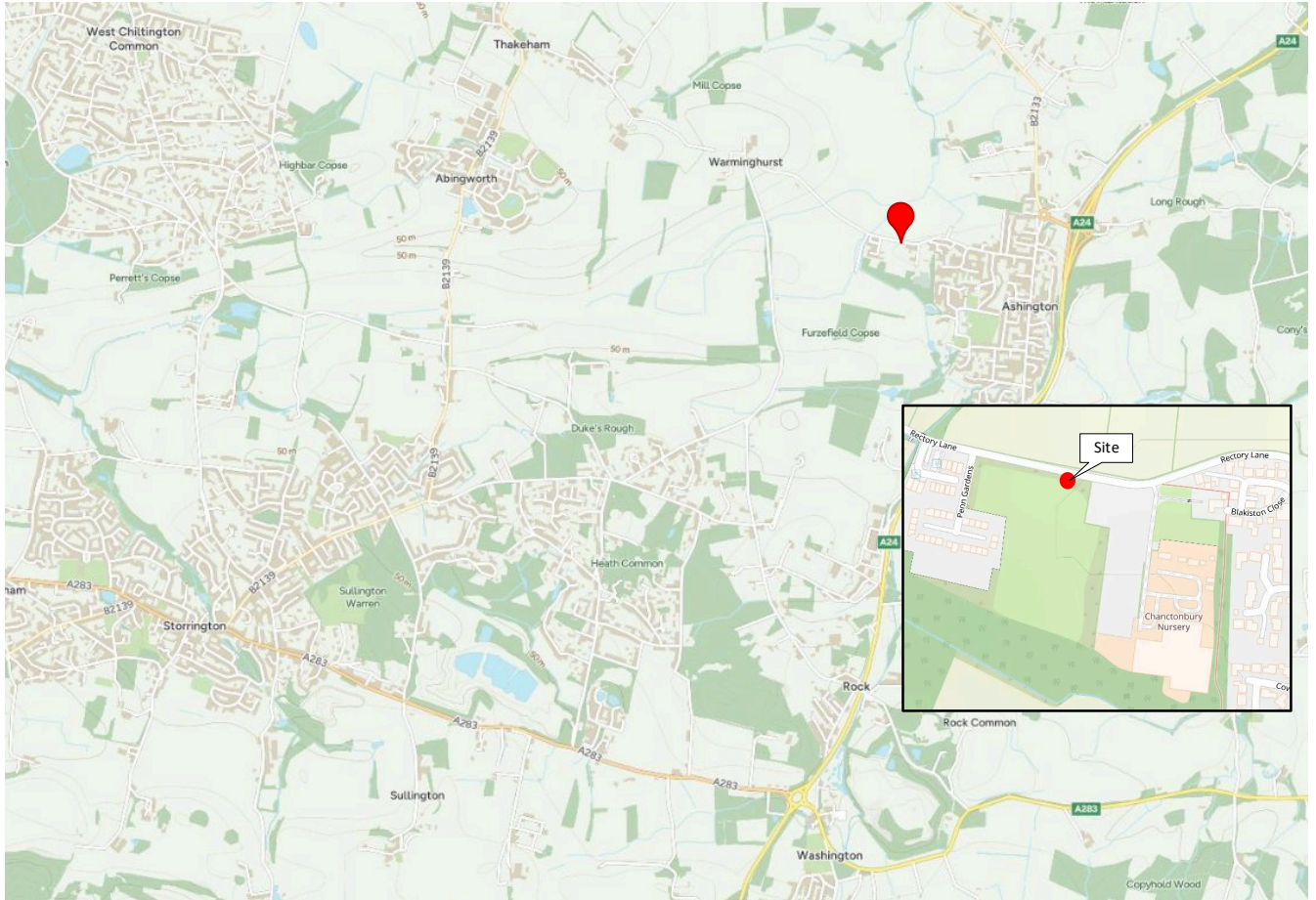
#### Road Safety Audit Team Member

Signed: 

Name: Ian Medd

Date: 07.07.25

## Appendix A Site Location Plan





## Appendix B Documents provided for Audit

- ITS200920-GA-004 Rev A  
Proposed Site Access Arrangement
- Speed limit and traffic speeds
- Highway boundary

## **APPENDIX E.** Junction 11 Outputs

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

**Filename:** Site Access Rectory Lane Junction.j11  
**Path:** S:\Projects\200000 Series\200920ITS - Penn Gardens Ashington\Tech\Junction Assessments\Picady  
**Report generation date:** 03/07/2025 11:46:13

»2030 | with Development | AM  
 »2030 | with Development | PM

**Summary of junction performance**

	AM			PM		
	Queue (Veh)	Delay (s)	RFC	Queue (Veh)	Delay (s)	RFC
2030 - with Development						
Stream B-AC	0.1	7.49	0.05	0.0	7.46	0.02
Stream C-AB	0.0	6.04	0.00	0.0	6.20	0.01

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.  
 Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

**File summary**

**File Description**

Title	
Location	
Site number	
Date	25/06/2025
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	I-TRANSPORT\basingstoke.hotdesk
Description	

**Units**

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

**Analysis Options**

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

### Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D1	2025	Observed Flows	AM	ONE HOUR	07:45	09:15	15			
D2	2025	Observed Flows	PM	ONE HOUR	16:45	18:15	15			
D3	2030	Future Year	AM	ONE HOUR	07:45	09:15	15		Simple	D1*G1
D4	2030	Future Year	PM	ONE HOUR	16:45	18:15	15		Simple	D2*G2
D5		Development	AM	ONE HOUR	07:45	09:15	15			
D6		Development	PM	ONE HOUR	16:45	18:15	15			
D7	2030	with Development	AM	ONE HOUR	07:45	09:15	15	✓	Simple	D3+D5
D8	2030	with Development	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D4+D6

### Growth Factors

ID	Description	Use TEMPRO	Growth Factor
G1	2025-2030 AM		1.0550
G2	2025-2030 PM		1.0603

*Growth factors are only active if a Demand Set references them in a Relationship.*

### Analysis Set Details

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

# 2030 | with Development | AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	C - Rectory Lane (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Demand Set Relationship	D7 - 2030   with Development   AM	Demand Set relationships are chained. This may slow down the file.

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Site Access / Rectory Lane	T-Junction	Two-way	Two-way	Two-way		2.60	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.60	A

## Arms

### Arms

Arm	Name	Description	Arm type
A	Rectory Lane (E)		Major
B	Site Access		Minor
C	Rectory Lane (W)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Rectory Lane (W)	4.46			98.7	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Site Access	One lane	3.33	16	19

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	508	0.099	0.250	0.157	0.357
B-C	657	0.107	0.272	-	-
C-B	631	0.261	0.261	-	-

*The slopes and intercepts shown above include custom intercept adjustments only.*

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

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



## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D7	2030	with Development	AM	ONE HOUR	07:45	09:15	15	✓	Simple	D3+D5

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Rectory Lane (E)		ONE HOUR	✓	31	100.000
B - Site Access		ONE HOUR	✓	24	100.000
C - Rectory Lane (W)		ONE HOUR	✓	19	100.000

## Origin-Destination Data

### Demand (Veh/hr)

	To			
		A - Rectory Lane (E)	B - Site Access	C - Rectory Lane (W)
From	A - Rectory Lane (E)	0	9	22
	B - Site Access	19	0	5
	C - Rectory Lane (W)	17	2	0

## Vehicle Mix

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

### Heavy Vehicle %

	To			
		A - Rectory Lane (E)	B - Site Access	C - Rectory Lane (W)
From	A - Rectory Lane (E)	0	1	2
	B - Site Access	3	0	4
	C - Rectory Lane (W)	5	6	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-AC	0.05	7.49	0.1	A	22	33
C-AB	0.00	6.04	0.0	A	2	3
C-A					15	23
A-B					8	12
A-C					20	30

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	18	5	0.00	510	0.035	18	0.0	0.0	7.312	A
C-AB	2	0.38	0.00	598	0.003	2	0.0	0.0	6.036	A
C-A	13	3	0.00			13				
A-B	7	2	0.00			7				
A-C	17	4	0.00			17				

### 08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	22	5	0.00	509	0.042	22	0.0	0.0	7.389	A
C-AB	2	0.46	0.00	598	0.003	2	0.0	0.0	6.034	A
C-A	15	4	0.00			15				
A-B	8	2	0.00			8				
A-C	20	5	0.00			20				

### 08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	26	7	0.00	507	0.052	26	0.0	0.1	7.493	A
C-AB	2	0.57	0.00	599	0.004	2	0.0	0.0	6.032	A
C-A	19	5	0.00			19				
A-B	10	2	0.00			10				
A-C	24	6	0.00			24				

### 08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	26	7	0.00	507	0.052	26	0.1	0.1	7.493	A
C-AB	2	0.57	0.00	599	0.004	2	0.0	0.0	6.032	A
C-A	19	5	0.00			19				
A-B	10	2	0.00			10				
A-C	24	6	0.00			24				

### 08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	22	5	0.00	509	0.042	22	0.1	0.0	7.393	A
C-AB	2	0.46	0.00	598	0.003	2	0.0	0.0	6.036	A
C-A	15	4	0.00			15				
A-B	8	2	0.00			8				
A-C	20	5	0.00			20				

### 09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	18	5	0.00	510	0.035	18	0.0	0.0	7.316	A
C-AB	2	0.38	0.00	598	0.003	2	0.0	0.0	6.036	A
C-A	13	3	0.00			13				
A-B	7	2	0.00			7				
A-C	17	4	0.00			17				

# 2030 | with Development | PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	C - Rectory Lane (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Demand Set Relationship	D7 - 2030   with Development   AM	Demand Set relationships are chained. This may slow down the file.

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Site Access / Rectory Lane	T-Junction	Two-way	Two-way	Two-way		1.14	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.14	A

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D8	2030	with Development	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D4+D6

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Rectory Lane (E)		ONE HOUR	✓	69	100.000
B - Site Access		ONE HOUR	✓	11	100.000
C - Rectory Lane (W)		ONE HOUR	✓	16	100.000

## Origin-Destination Data

### Demand (Veh/hr)

From	To		
	A - Rectory Lane (E)	B - Site Access	C - Rectory Lane (W)
A - Rectory Lane (E)	0	17	52
B - Site Access	9	0	2
C - Rectory Lane (W)	12	4	0

## Vehicle Mix

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

### Heavy Vehicle %

From	To		
	A - Rectory Lane (E)	B - Site Access	C - Rectory Lane (W)
A - Rectory Lane (E)	0	1	2
B - Site Access	3	0	4
C - Rectory Lane (W)	5	6	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-AC	0.02	7.46	0.0	A	10	15
C-AB	0.01	6.20	0.0	A	4	6
C-A					11	16
A-B					16	23
A-C					48	72

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	8	2	0.00	501	0.017	8	0.0	0.0	7.308	A
C-AB	3	0.76	0.00	588	0.005	3	0.0	0.0	6.151	A
C-A	9	2	0.00			9				
A-B	13	3	0.00			13				
A-C	39	10	0.00			39				

#### 17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	10	2	0.00	498	0.020	10	0.0	0.0	7.371	A
C-AB	4	0.92	0.00	587	0.006	4	0.0	0.0	6.173	A
C-A	10	3	0.00			10				
A-B	15	4	0.00			15				
A-C	47	12	0.00			47				

#### 17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	12	3	0.00	495	0.024	12	0.0	0.0	7.460	A
C-AB	5	1	0.00	585	0.008	4	0.0	0.0	6.202	A
C-A	13	3	0.00			13				
A-B	19	5	0.00			19				
A-C	57	14	0.00			57				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	12	3	0.00	495	0.024	12	0.0	0.0	7.460	A
C-AB	5	1	0.00	585	0.008	5	0.0	0.0	6.202	A
C-A	13	3	0.00			13				
A-B	19	5	0.00			19				
A-C	57	14	0.00			57				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	10	2	0.00	498	0.020	10	0.0	0.0	7.375	A
C-AB	4	0.92	0.00	587	0.006	4	0.0	0.0	6.175	A
C-A	10	3	0.00			10				
A-B	15	4	0.00			15				
A-C	47	12	0.00			47				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-AC	8	2	0.00	501	0.017	8	0.0	0.0	7.309	A
C-AB	3	0.76	0.00	588	0.005	3	0.0	0.0	6.154	A
C-A	9	2	0.00			9				
A-B	13	3	0.00			13				
A-C	39	10	0.00			39				

