

# TECHNICAL NOTE

## LITTLEHAMPTON ALLOTMENTS PROPOSED ACCESS

**Client:** Persimmon Homes  
**Reference:** 6309

**Date:** August 2022

**Author:** EJD  
**Checked by:** ALB  
**Approved by:** ALB

**Date:** 20/05/2021  
**Date:** 20/05/2021  
**Date:** 20/05/2021

| Issue | Status   | Date       |
|-------|----------|------------|
| 1.    | Draft    | 20/05/2021 |
| 2.    | Final    | 05/08/2022 |
| 3.    | Final 02 | 05/08/2022 |
| 4.    | Final 03 | 11/08/2022 |

## 1 INTRODUCTION

- 1.1.1 This Technical note (TN) has been prepared by Bright Plan on behalf of Persimmon Homes to support a proposed vehicle access to new allotments in Littlehampton. The allotments are situated on land between the new Lyminster Bypass and residential properties on Holly Drive, as shown in **Figure 1.1**.

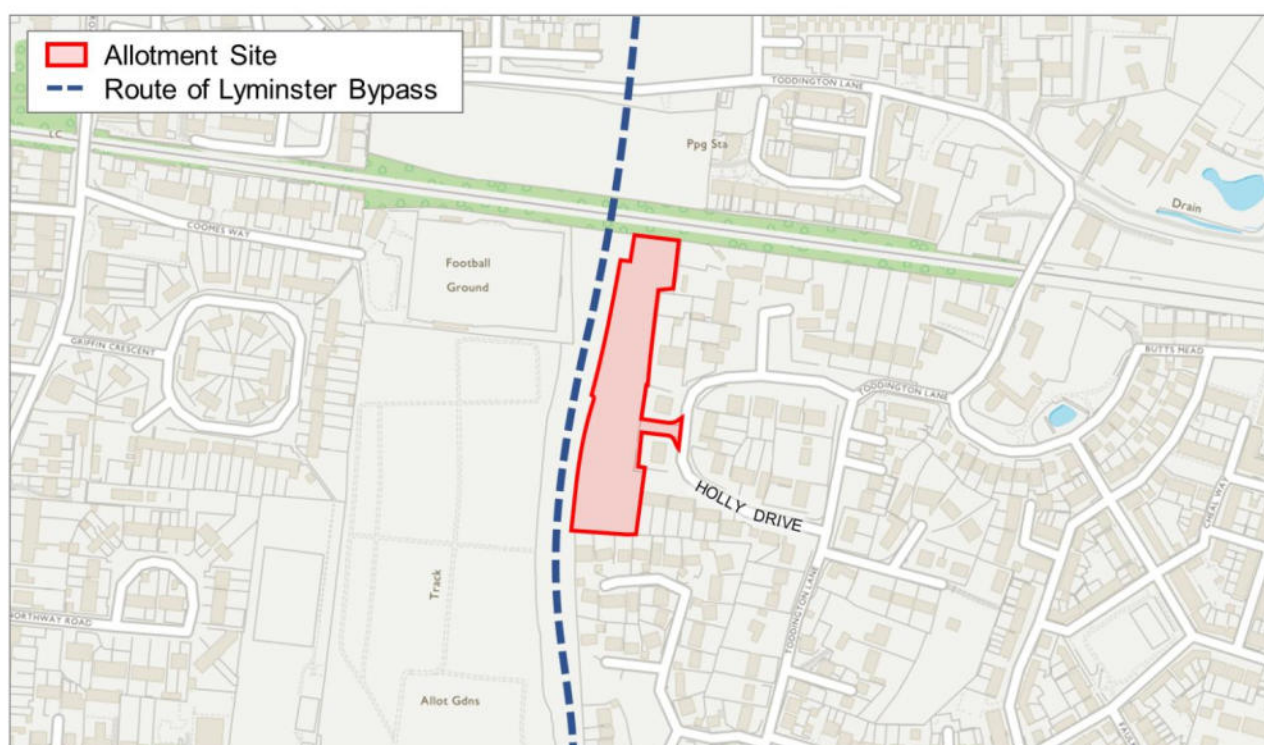


**Figure 1.1: Allotment Location**

- 1.1.2 The proposed vehicle access would adjoin Holly Drive between 'Holly End' and 'The Laurels', and would serve parking spaces associated with the allotments.

## 2 EXISTING CONDITIONS

### 2.1 Access Road Site

- 2.1.1 The new access route would run between the properties 'Holly End' and 'The Laurels'. The proposed access route currently comprises a grassed area of scrubland. The existing site is shown in **Figure 2.1**.



**Figure 2.1: Existing Site**

### 2.2 Holly Drive

- 2.2.1 Holly Drive comprises a 'horseshoe' shaped road, connecting with Toddington Lane at either end, and currently serves approximately 40 dwellings. The road has a c.4.9m wide carriageway in the vicinity of the proposed access, flanked by grass verges. Whilst the road is subject to a 30mph speed limit, the alignment and width of the road are such that vehicles typically travel significantly below this limit. Holly Drive carriageway characteristics are shown in **Figure 2.2**.



**Figure 2.2: Holly Drive**



## 2.3 Accident Data

- 2.3.1 To determine highway safety in the vicinity of the site, an assessment of Personal Injury Accidents (PIAs) has been undertaken for a 5-year period from April 2016 to April 2021 using the Sussex Safer Road Partnership's (SSRP) online data portal.
- 2.3.2 The study found no record of PIA incidents on Holly Drive over the 5-year period. It is therefore considered that there are no underlying highway safety concerns which would be exacerbated by the proposal.

## 3 PROPOSED ACCESS

### 3.1 Overview

- 3.1.1 The proposed access would be provided to serve 10 parking spaces for the proposed allotments, including 2 disabled parking bays.

### 3.2 Proposed Access

- 3.2.1 The proposed access would take the form of a 4.8m wide vehicle crossover. The route would use a shared surface arrangement which is appropriate given the low volume of vehicle traffic that will use the road. The use of the shared surface would comply with Manual for Streets (MfS) guidance for shared surfaces. The proposed access road is shown on **Drawing 2021-6309-000**.
- 3.2.2 The proposed geometries can accommodate access by private cars, and vehicles would be able to pass cars, cyclists and pedestrians. A vehicle swept path analysis has been undertaken demonstrating these manoeuvres in **Drawing 2021-6309-003**.

### 3.3 Visibility

- 3.3.1 The proposed access achieves visibility splays 2.4m x 43.0m in both the primary and secondary directions in accordance with MfS requirements for 30mph roads. Visibility splays from the access are demonstrated as achievable in **Drawing 2021-6309-001**.

### 3.4 Parking Arrangements

- 3.4.1 Ten parking spaces would be provided for use by allotment users. The spaces would use dimensions of 2.4m x 4.8m in accordance with the minimum dimensions set out in MfS guidance. A 6.0m reversing distance would be provided allowing comfortable manoeuvring to and from spaces.
- 3.4.2 A vehicle swept path analysis has been undertaken demonstrating these manoeuvres in **Drawing 2021-6309-003** and **2021-6309-004**.

### 3.5 Gradients

- 3.5.1 The access road would have a gradient of 1:150, which is well within the maximum thresholds set out in the Design Manual for Roads and Bridges (DMRB) CD123 'Geometric design of direct accesses' (4%).

## 4 SUMMARY AND CONCLUSIONS

- 4.1.1 This Technical Note has been prepared by Bright Plan on behalf of Persimmon Homes to support a proposed vehicle access to new allotments in Littlehampton. The conclusions from this report are as follows:

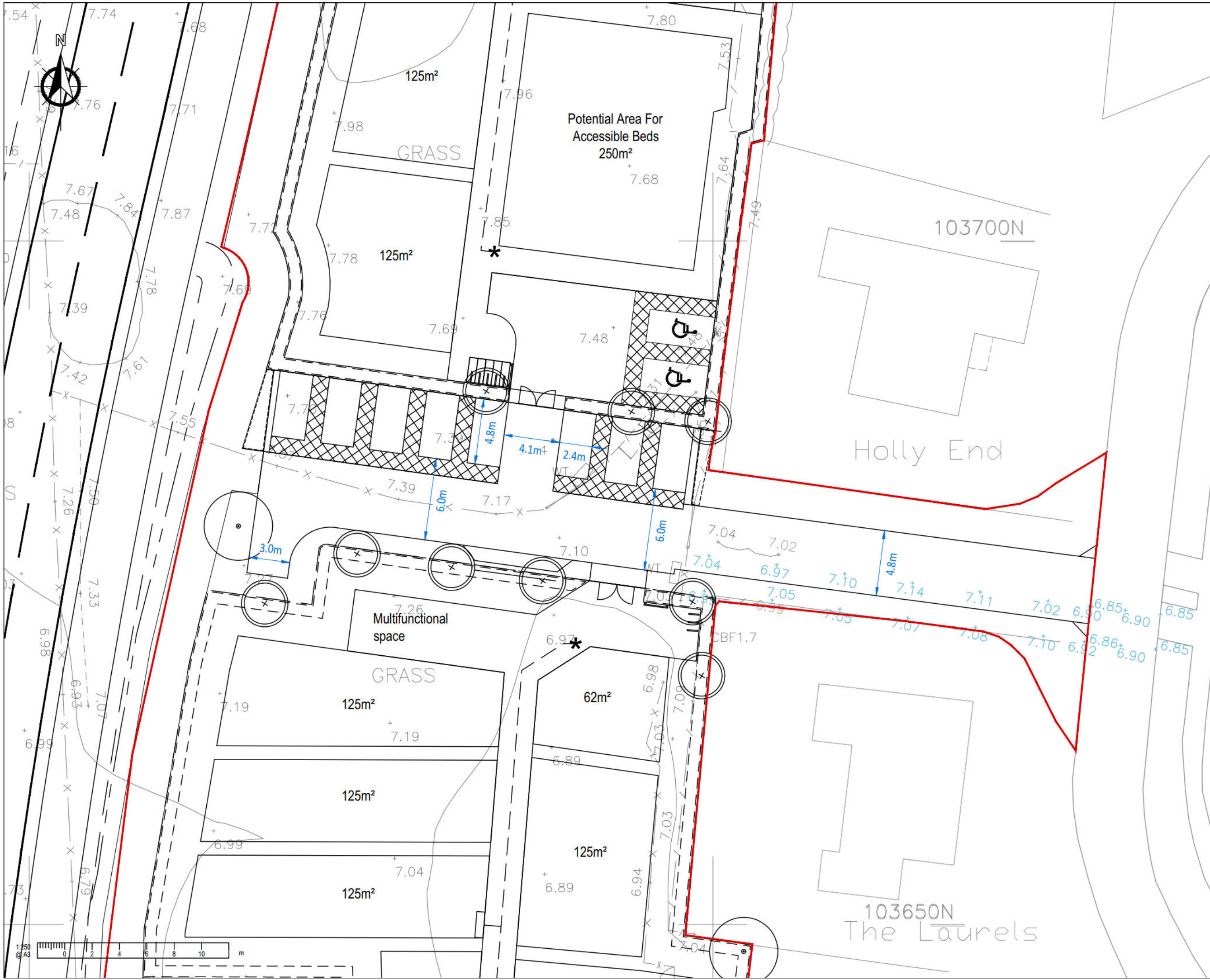


- i. The proposed access road would provide access to parking spaces associated with allotments proposed to the rear of Holly Drive.
- ii. The access road would be 4.8m wide and would use a shared surface arrangement. The proposed geometries would allow concurrent car movements.
- iii. The access achieves the necessary visibility splays in both directions based on a 30mph design speed.
- iv. The gradients of the proposed access road are slight, and are well within the maximum thresholds set out in DMRB CD123.



## DRAWINGS

- 000** Site Overview
- 001** Access Overview and Visibility Splays
- 003** Estate Car Vehicle Swept Path Analysis
- 004** Estate Car Vehicle Swept Path Analysis 2



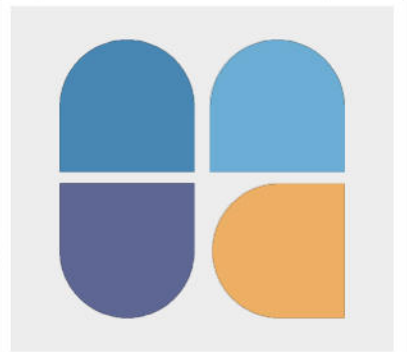
NOTES

A3

1. This drawing is to be read in conjunction with all other Bright Plan drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. Bright Plan accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain.

Site Boundary

|      |                |            |
|------|----------------|------------|
| B    | Red Line       | 05/08/2022 |
| A    | Revised Layout | 03/08/2022 |
| -    | Original Issue | 10/05/2021 |
| Rev. | Amendments     | Date       |



**BRIGHT PLAN**  
Transport Planning and Civil Engineering Consultants  
2 West Barn, Norton Lane, Chichester, West Sussex PO20 3AF  
Tel: 01243 210418 Email: enquiries@bpcivils.co.uk  
www.bpcivils.co.uk

Drawing Status Final

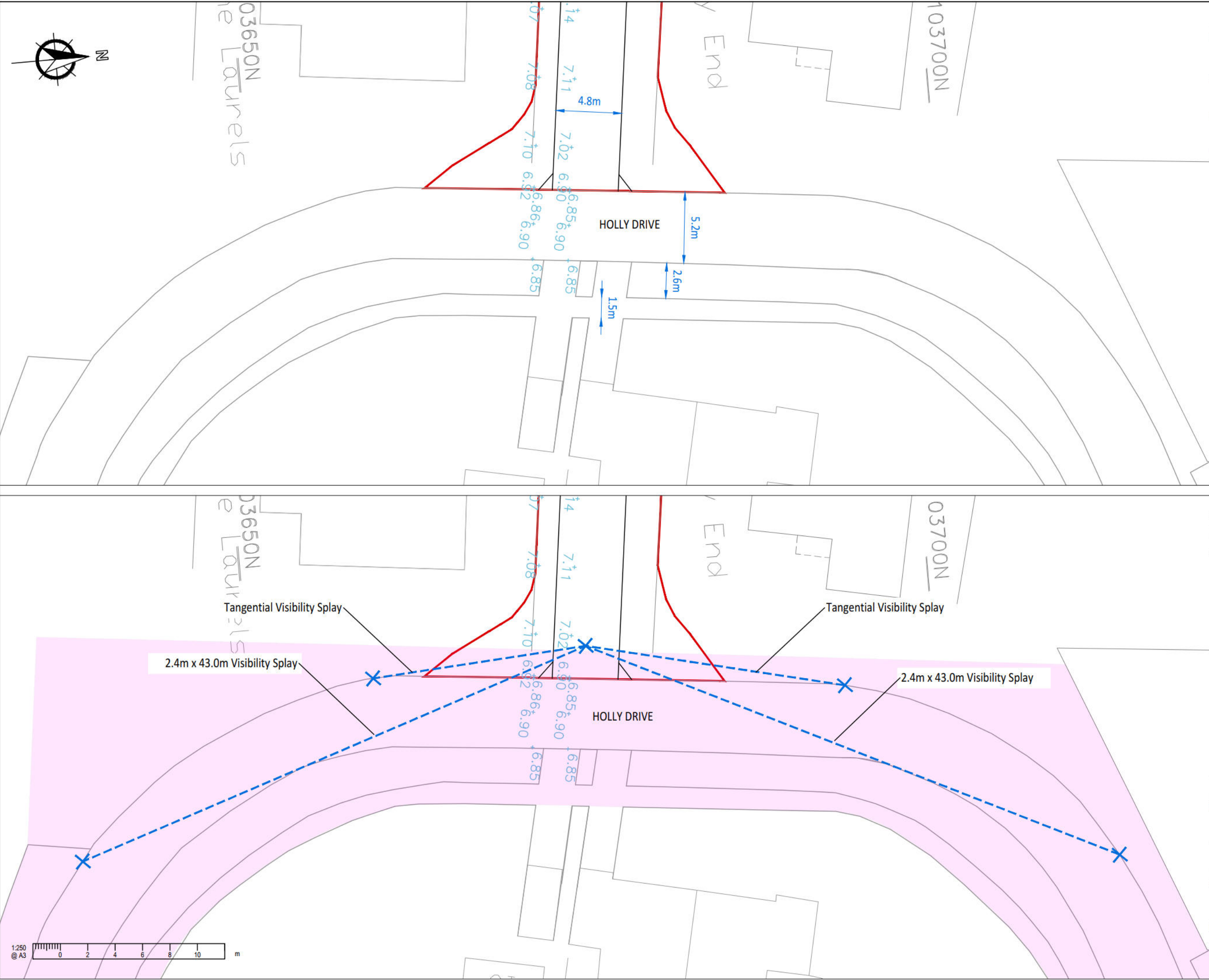
Client Persimmon Homes Thames Valley

Project Littlehampton Allotments

Drawing Title Site Overview

Scale 1:250 Date Aug 22 Drawn By SMO Checked By ALB

Drawing No. 2020-6309-000 Rev. B



NOTES

A3

1.

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Site Boundary

Visibility Splays

Public Highway

B

Red Line

05/08/2022

A

Revised Layout

03/08/2022

-

Original Issue

06/05/2021

Rev.

Amendments

Date

BRIGHT PLAN

Transport Planning and Civil Engineering Consultants

2 West Barn, Norton Lane, Chichester, West Sussex PO20 3AF

Tel: 01243 210418 Email: enquiries@bpcivils.co.uk www.bpcivils.co.uk

Drawing Status

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Client

Persimmon Homes Thames Valley

Project

Littlehampton Allotments

Drawing Title

Access Overview and Visibility Splays

Scale

1:250

Date

Aug 22

Drawn By

SMO

Checked By

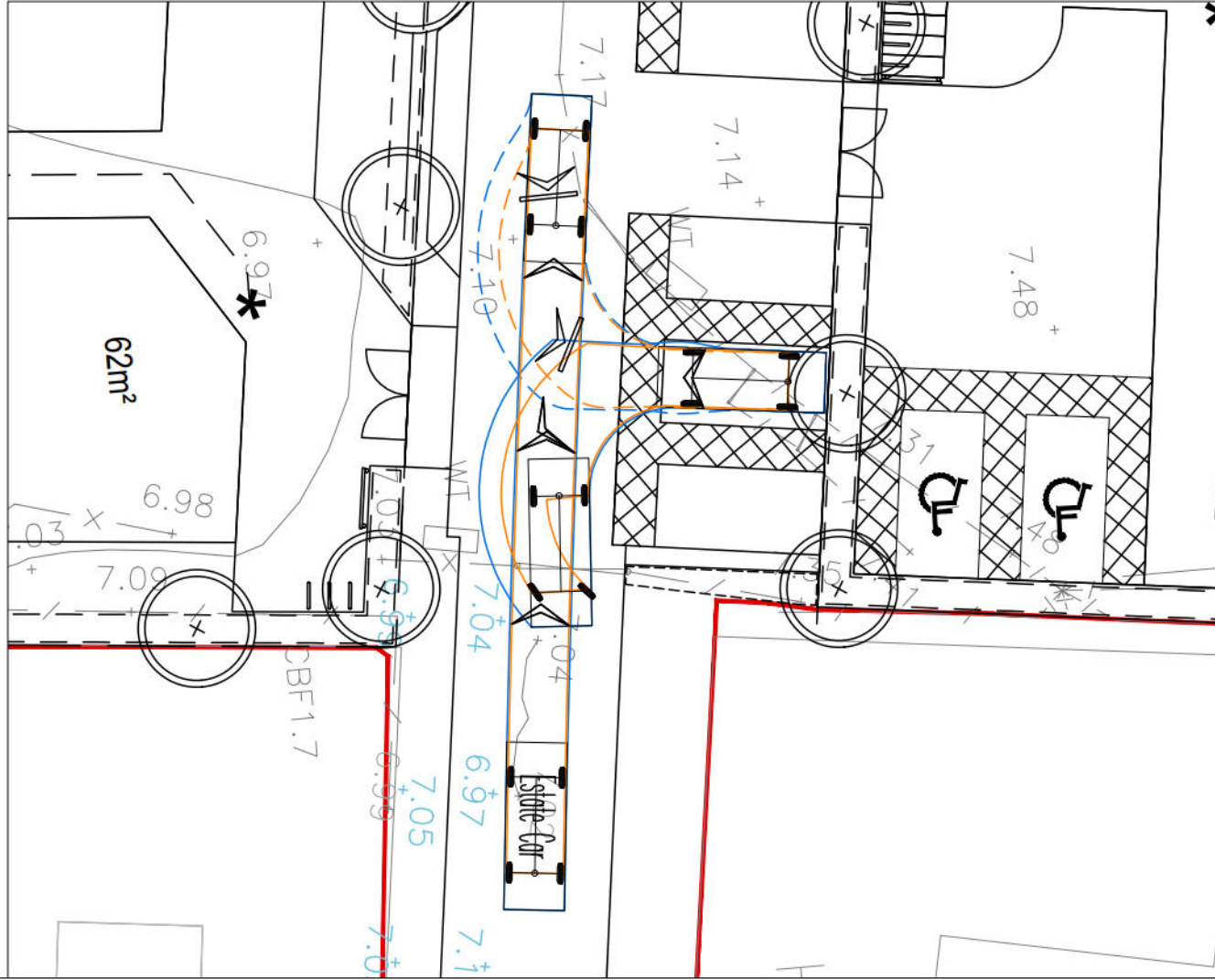
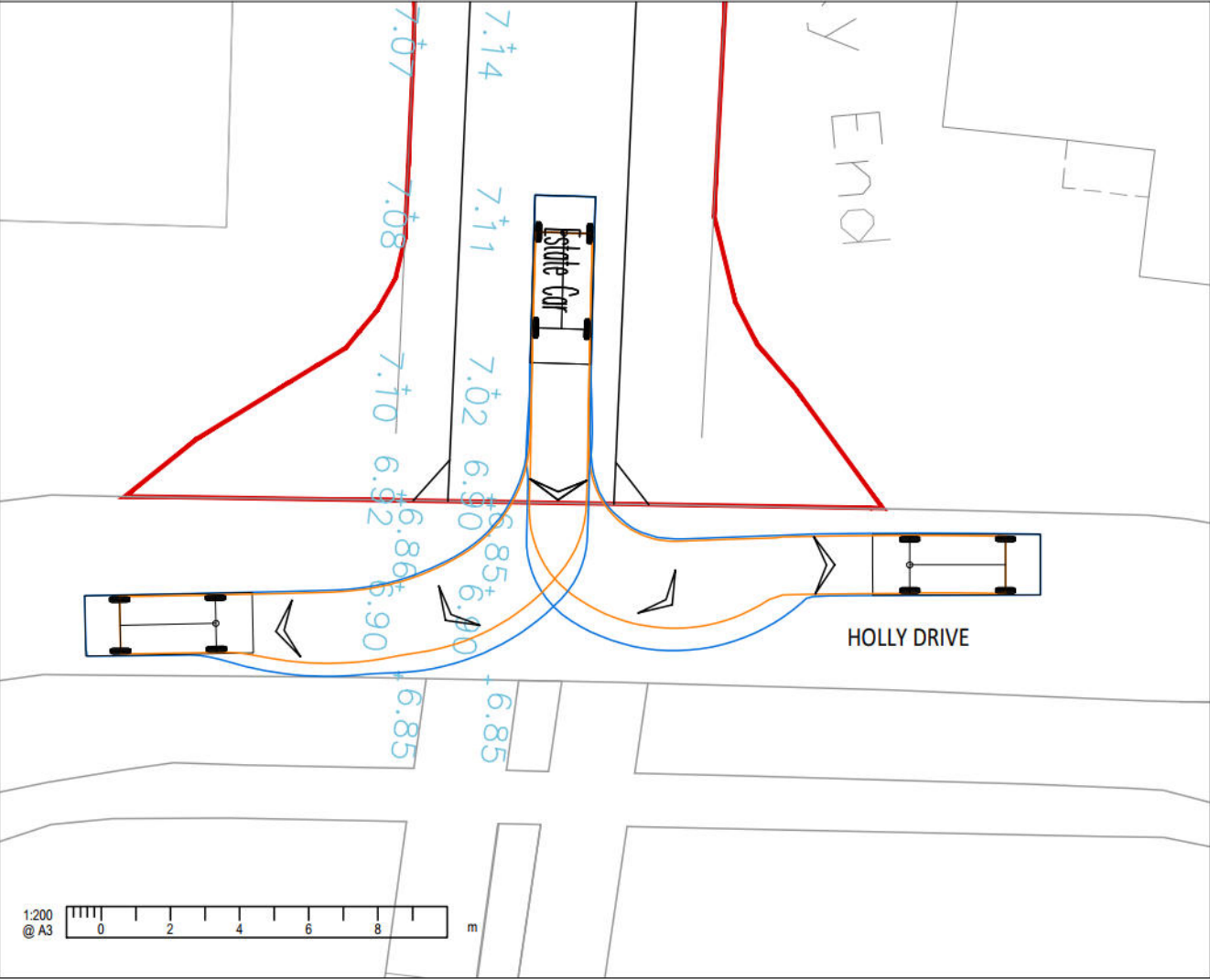
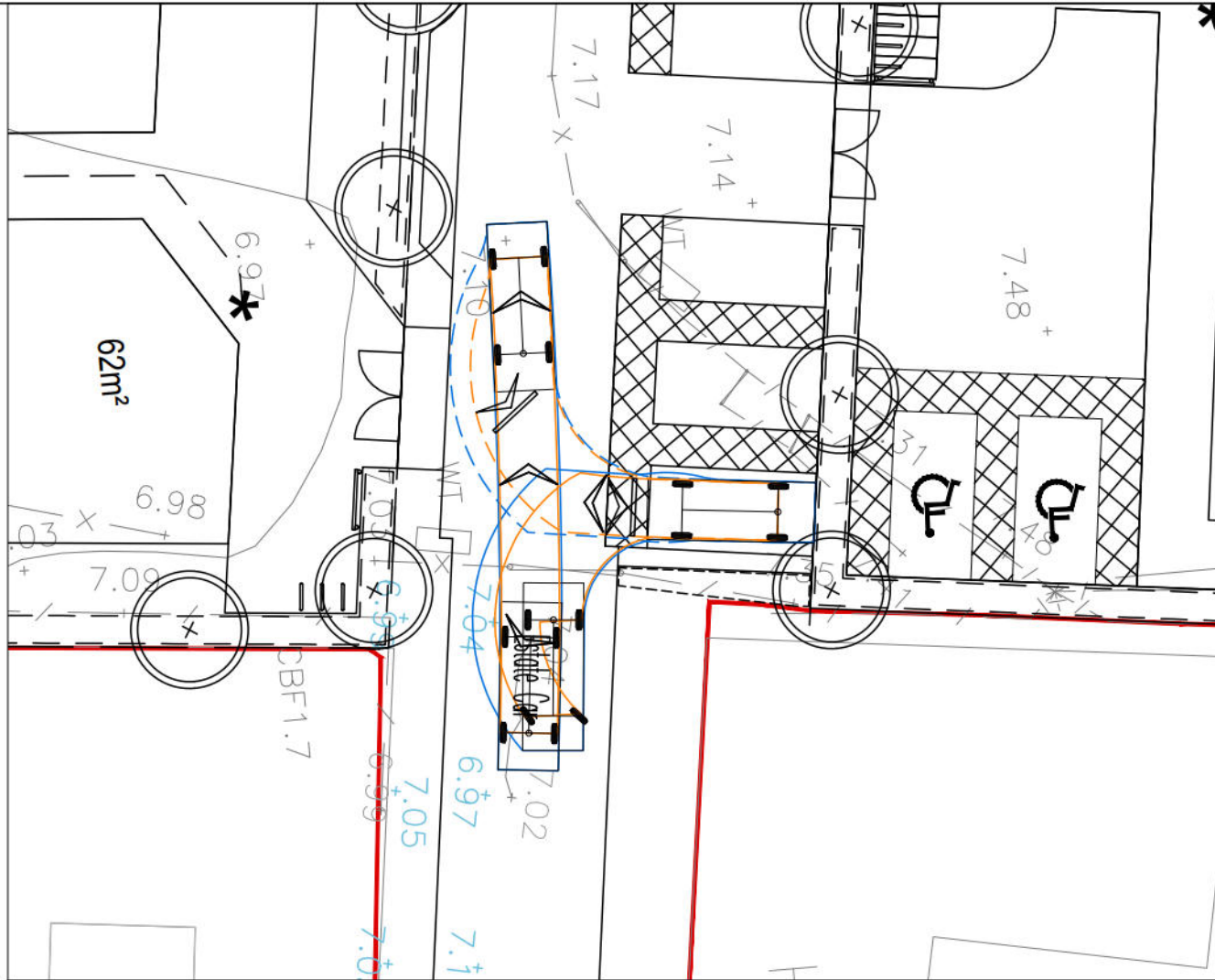
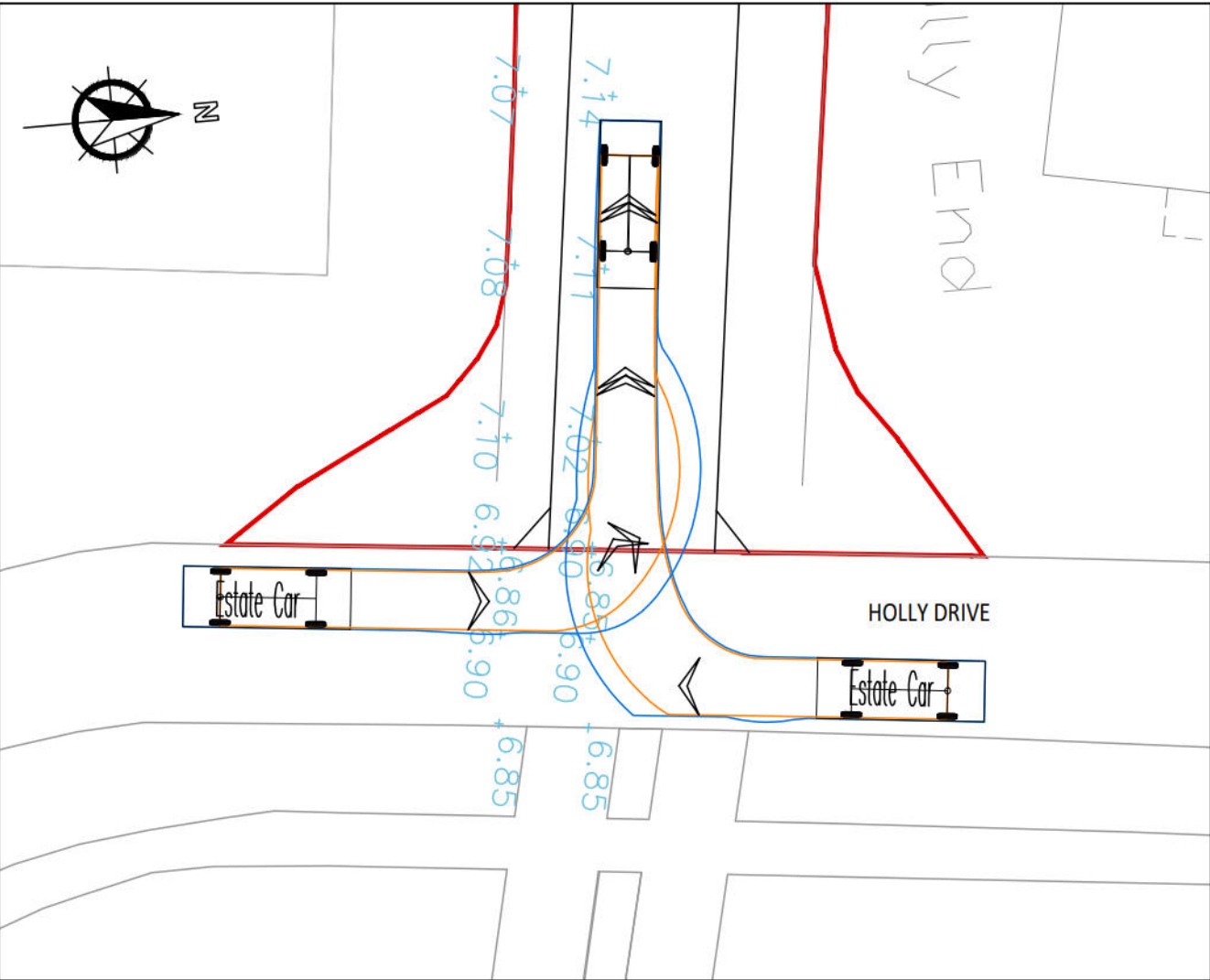
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Drawing No.

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Rev.

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Site Boundary

-Swept Path-

Wheel Track

Over Swing

Estate Car

Overall Length

Overall Width

Overall Body Height

Min Body Ground Clearance

Max Track Width

Lock to lock time

Kerb to Kerb Turning Radius

4.845m

1.750m

1.424m

0.189m

1.655m

4.00s

4.950m

B

Red Line

05/08/2022

A

Revised Layout

03/08/2022

-

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Tel: 01243 210418 Email: enquiries@bpcivils.co.uk www.bpcivils.co.uk

Drawing Status

Final

Client

Persimmon Homes Thames Valley

Project

Littlehampton Allotments

Drawing Title

Estate Car

Vehicle Swept Path Analysis 1

Scale

1:200

Date

Aug 22

Drawn By

SMO

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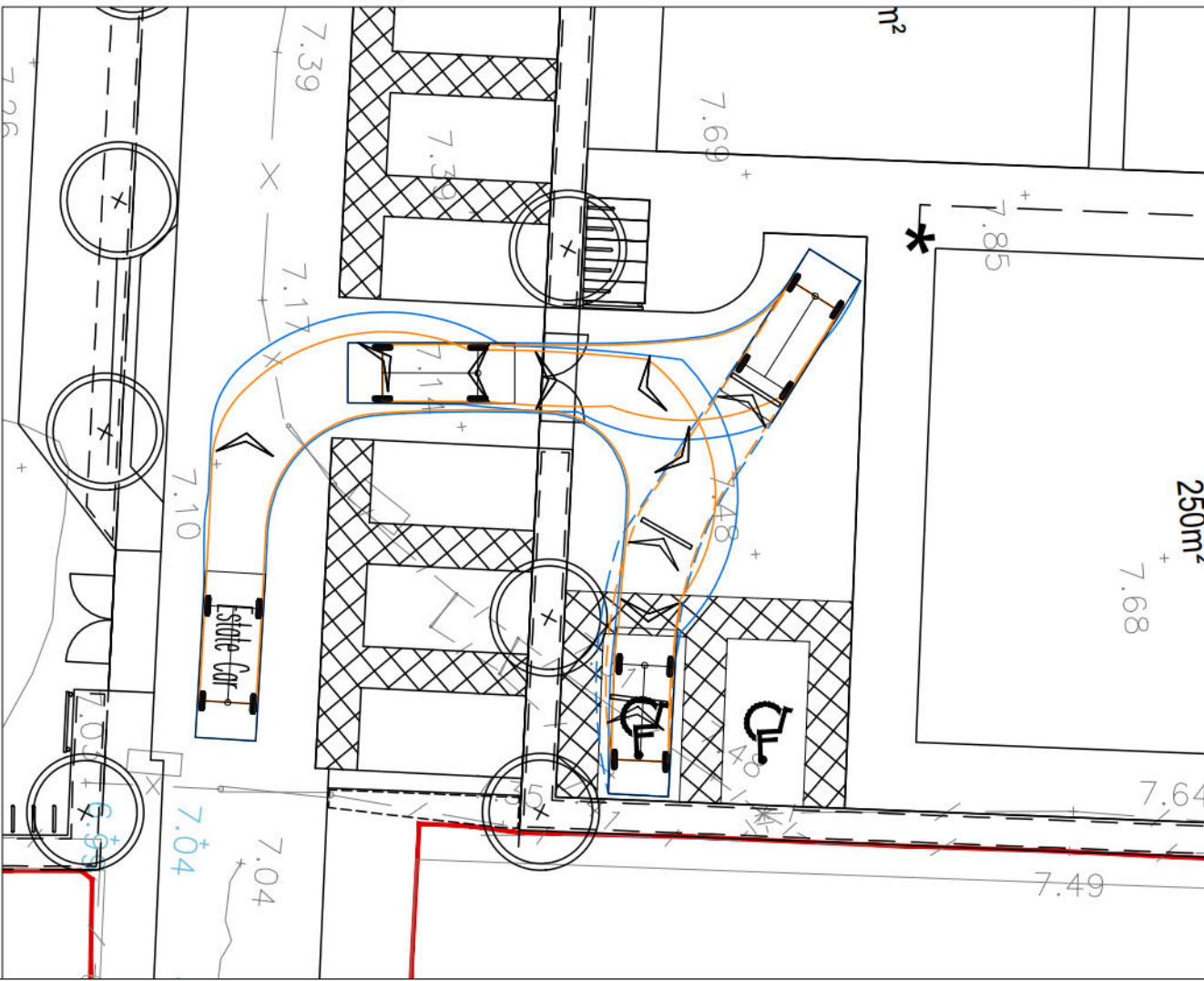
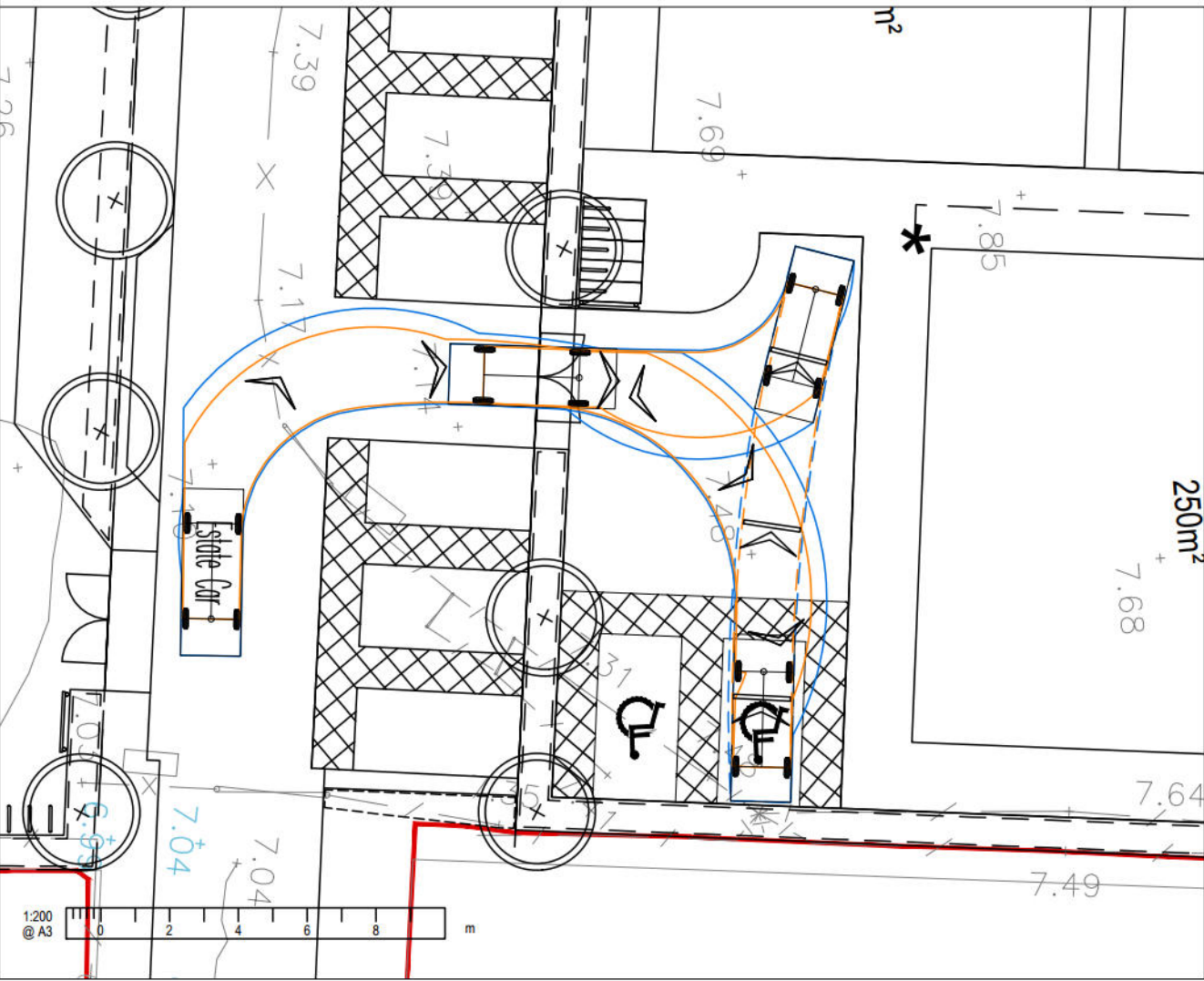
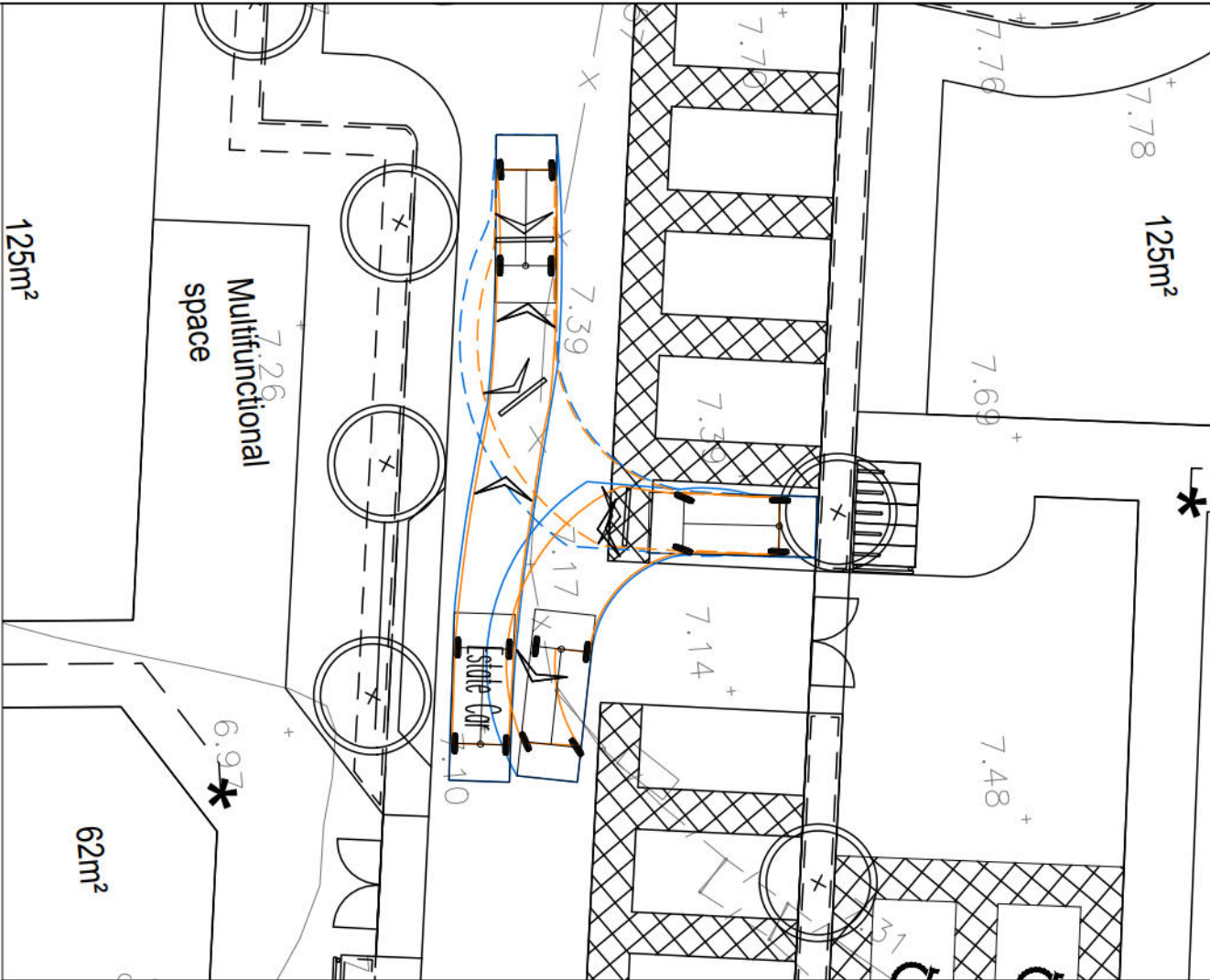
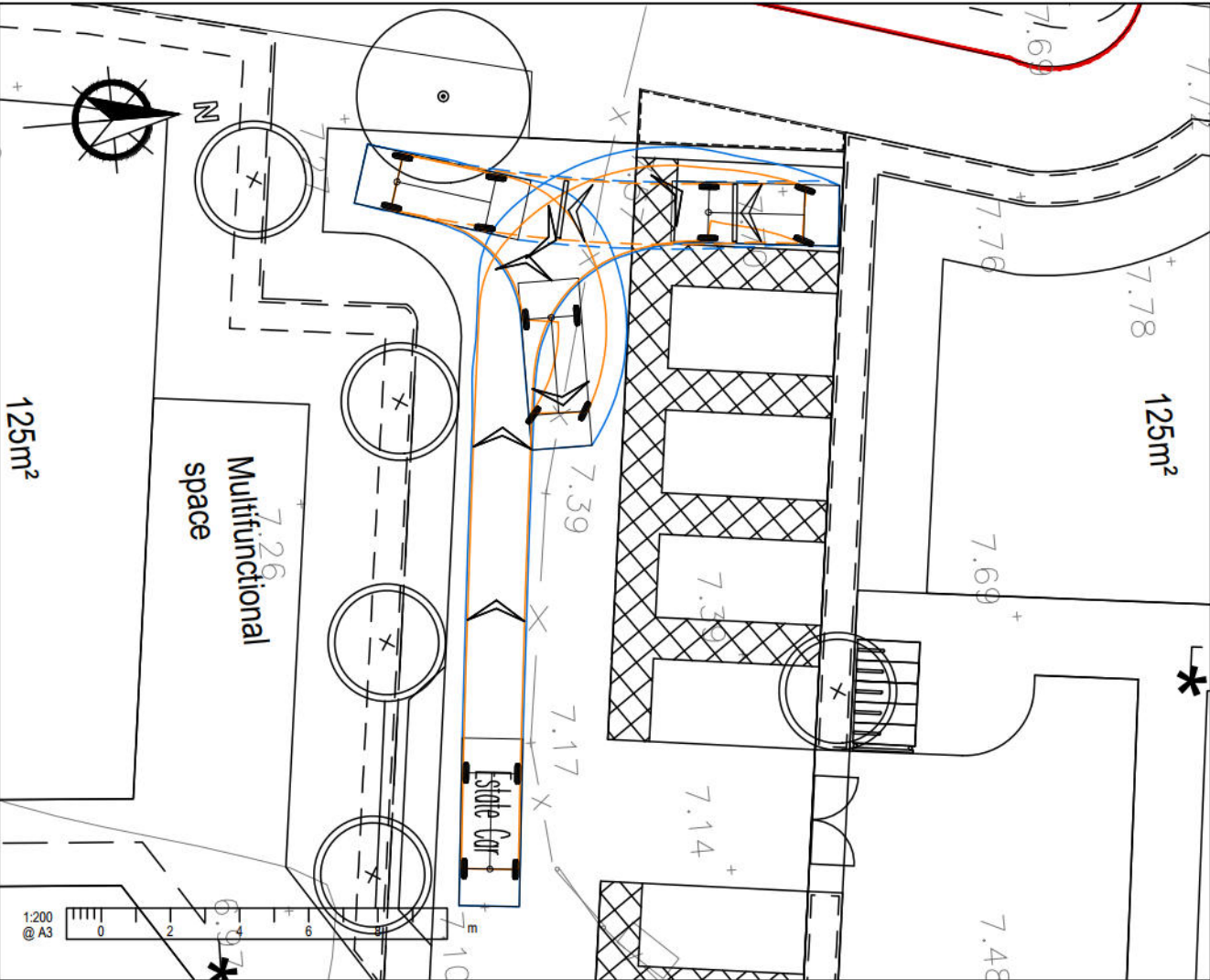
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Drawing No.

2020-6309-003

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Site Boundary

-Swept Path-

Wheel Track

Over Swing

4.845

1.750

1.424

0.189

1.655

4.005

4.950

Estate Car

Overall Length

Overall Width

Overall Body Height

Min Body Ground Clearance

Max Track Width

Lock to lock time

Kerb to Kerb Turning Radius

05/08/2022

03/08/2022

06/05/2021

B

Red Line

05/08/2022

A

Revised Layout

03/08/2022

-

Original Issue

06/05/2021

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Tel: 01243 210418 Email: enquiries@bpcivils.co.uk www.bpcivils.co.uk

Drawing Status

Final

Client

Persimmon Homes Thames Valley

Project

Littlehampton Allotments

Drawing Title

Estate Car

Vehicle Swept Path Analysis 2

Scale

1:200

Date

Aug 22

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Drawing No.

2020-6309-004

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