

Structural Civil Building Engineers

Transport Statement







Project Ref: 218790

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Site: The Woodyard, Worstead Estate

Client: **Worstead Estate**

Michelle Robinson BSc(Hons) MCIHT MTPS MICE Prepared By:

EngTech

Date of Report: **June 2023**

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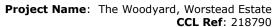
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Contents

| 1 | INTRODUCTION | . 5 |
|-----|--|-----|
| 1.1 | Planning Context | 6 |
| 2 | EXISTING ARRANGEMENTS | . 7 |
| 2.1 | Introduction | . 7 |
| 2.2 | Surrounding Land Use | . 7 |
| 2.3 | Site and Local Highway Network Description | . 7 |
| 2.4 | Public Transport – Accessibility | 8 |
| 3 | PROPOSED DEVELOPMENT | . 9 |
| 4 | TRIP GENERATION | 11 |
| 4.1 | Introduction | 11 |
| 4.2 | | |
| 4.3 | Proposed Trips | 11 |
| 4.4 | Travel Plan | 11 |
| 4.5 | Offsite Accommodation | 12 |
| 4.6 | Worstead Estate Accommodation | 13 |
| 4.7 | Impact During Construction | 13 |
| 5 | SUMMARY | 14 |



Transport Statement | P2



Appendices

Appendix A - Proposed Development Plan

Appendix B - Proposed Access Arrangements

Appendix C - Swept Path Plans

Appendix D - Offsite Passing Bays

Appendix E - Offsite Improvements

List of Figures

Figure 1 - Site Location Plan

Figure 2 - 5 mile radius Accommodation Area

List of Tables

Table 1 - Routes of non-local Traffic



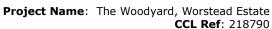
1 INTRODUCTION

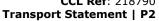
Canham Consulting Ltd have been commissioned by Worstead Farms Ltd to produce a Transport Statement (TS) in support of a planning application at Worstead Park for changes to the frequency of use of the Woodyard venue. The site location is shown below in Figure 1. A copy of the proposed site plan is shown in Appendix A.

This report will identify the proposals, summary of traffic associated with the development and highway improvements.



Figure 1: Site Location Plan







1.1 Planning Context

Planning permission to convert the former Woodyard barns to a wedding venue was granted in September 2017 (planning ref PF 17/1510).

There have also been several applications to repurpose and save listed buildings within the estate which have been withdrawn.

This report will assess the impact of the traffic associated with the proposed development and the affect it will have on the surrounding highway network.

A previous pre-app for the adjacent Coach House site included three main transport related recommendations:

- 1. Providing an upgraded Access Road from Dilham Road
- 2. Car Parking and Access Strategy
- 3. Commercial Travel Plan

This report will detail how these recommendations will be incorporated into the design of the proposed scheme.

An upgraded two-way estate road will be provided linking the development to Dilham Road. This road links to Dilham Road at the northern gate. This reinstates a previously used access and upgrades the existing single track within the site to a two-way access road. The estate access strategy will be amended to close off access/exit via the eastern gate, with all traffic associated with The Woodyard to enter and exit the site via the Northern Gate and new two-way access road.

Car parking and access has been considered as part of the wider estate strategy. The Woodyard parking does not alter as a result of this application. There is no requirement for additional parking as there will be no additional traffic on any given day.

Discussions have previously been had with highways over the proposals, with all comments raised by highways addressed and agreement that offsite works be delivered through a S278 agreement and conditions proposed by the Highway Authority (under discussion associated with the Coach House development).



Transport Statement | P2

2 EXISTING ARRANGEMENTS

2.1 Introduction

This chapter reviews the existing setting of the site, including the area surrounding the site and the transport options available in the immediate area.

The site houses an existing building (Woodyard).

Surrounding The Woodyard is Worstead Park, open countryside, woodland with a number of other buildings within its grounds. To the west is a large lake.

The park lies between Worstead to Northwest, Smallburgh and Dilham to the Southeast and Frankfort and Sloley to the South West.

Access to the park is currently provided from two vehicle access points, the East and West Gates. There is also an existing north gate, which provides farm access, although the road within the estate has become overgrown from the north gate.

2.2 Surrounding Land Use

The site is bounded to the north by a walled garden to the north. To the east, the site is bounded by the access road and beyond this, woodland and agricultural land. To the south, the site is bounded by an internal access road. To the west, the site is bounded by a wooded area and beyond this, a body of water.

2.3 Site and Local Highway Network Description

Access and egress to the site is made via access roads extending from both Sloley Road and Mill Lane/Chapel Road. (West and east accesses respectively), alongside the existing north gate access. The private estate roads have a 15mph speed limit applied and operate on a one-way system.

Sloley Road, Mill Lane and Chapel Road are all national speed limit roads (60mph) however, it is understood that most vehicles do not travel at the speed limits along these roads. Sloley Road is a single carriageway country road. The exit onto Mill Lane and Chapel Road is on a right-angle bend between the two roads.

Union Road has a 30mph speed limit, which extends into Anchor Street. The speed limit changes to the national speed limit for the remaining stretch of Anchor Street to the west of the residential area (east of Shop Lane).

The B1150 North Walsham Road has a 40mph speed limit at its junction with Anchor Street and a 50mph speed limit at the junction with Sloley Road and Westwick Road.

There is a 20mph speed limit within Worstead village.

An upgraded two-way access road is proposed to be made onto Dilham Road, at the northern gate, upgrading the current single track. Dilham Road is a national speed limit (60mph) single lane country road. There are several passing bays along Dilham Road to facilitate traffic flow and passing of vehicles. It is considered that there is enough carriageway width along Dilham Road for cars to pass each other, with the passing bays at suitable distances. (See Appendix D) Due to the nature of Dilham Road, it is believed that most drivers will not be travelling at the speed limit, especially if they can see traffic coming the other direction. There is generally good forward visibility.



Project Name: The Woodyard, Worstead Estate

CCL Ref: 218790 Transport Statement | P2

There are no footways within the immediate vicinity of the site. There is no streetlighting in the immediate area surrounding the site. There are public rights of way (PRoW) and permissive paths in the vicinity of the site and wider area. There is a permissive path to the north of Dilham Road, along the southern boundary of the field. This provides a pedestrian route towards Worstead.

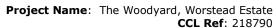
There are no national cycle routes in the immediate area surrounding the site.

2.4 Public Transport - Accessibility

The nearest bus stop to the site which has operational services is along A149 Yarmouth Road (east of the site). This stop is approximately 1.2miles south-west of the site (along the road network). The bus stop id is `NFOGMPTD. Sanders Coaches runs services that serve these stops. Based on the Sanders Coaches service being the only available, there are very limited bus services surrounding the site. Additionally, there are poor connections to the bus stops due to the lack of footways surrounding the site.

The nearest train station is Worstead train station, approximately 2.2 miles west which is a 9-minute drive or 12-minute cycle ride. Worstead is on the Norwich to Sheringham line. Full train timetables and routes can be found at www.greateranglia.co.uk.

Connections from Worstead train station can be made to destinations including, but not limited to, Sheringham, Cromer, North Walsham, Hoveton & Wroxham and Norwich. Connections can be made from Norwich station to major designations including London Liverpool Street and Manchester.





Transport Statement | P2

3 PROPOSED DEVELOPMENT

The proposed development is shown within Appendix A. The proposed development doesn't see any alteration to the building itself, just a change to the use, so that two events (wedding or non-wedding) can be held each week. The proposals include for the improved access arrangements and an offsite highway improvement at the A149 junction.

The Woodyard venue will be restricted to having two events a week, one at weekend and one during the week.

The proposed development will re-purpose the existing north gate of the Park to allow two-way access to take traffic to and from The Woodyard. A plan showing the proposed access arrangements are available in Appendix B. The access road is proposed to be 5m with a 2m footway along one side. The access road will be considerate to the rural surroundings. The road will not be over engineered in appearance, with no kerbs proposed and the surface materials sensitive to the landscape setting.

Currently guests enter the Park through the West gate and exit via the East gate. It is proposed to modify this arrangement as part of the development to only allow public vehicle access to the park through the North Gate. Signage will direct traffic out of the North gate, right onto Dilham Road. Although it is recognised that locals may turn left out towards Worstead.

There will also be signposts along the preferred route, and at the exit, directing all traffic to the A149 to help avoid traffic turning west. It is suggested that the proposed signage be conditioned and subject to agreement by the Highway Authority.

The North gate will provide convenient access to the A149 via a short section of Dilham/Worstead Road. Guests will be encouraged to arrive via the A149 to take traffic away from the highway network to the west and from around Worstead.

This will streamline the flow of traffic for those visiting The Woodyard and the Park. It will take the existing traffic away from the west gate on Sloley Road and the east gate on Chapel Road thereby improving the flow of traffic on the surrounding highways network.

There is a good level of existing passing bays along Dilham Road, especially between the A149 and the northern access. The passing bays and visibility between the bays are shown in Appendix D.

There are improvements proposed at the Dilham Road / A149 junction, with a proposed splitter island (Appendix E).

The visibility out onto Dilham Road indicates a visibility splay of 2.4m x 215m is achievable, following recent forestry work done with permission from the forestry commission. The proposed visibility splay is in line with the visibility splay requirements of accesses onto national speed limit roads (60mph). As the access to the site from Sloley Road is proposed to become an entry-only access, and will be more of a pedestrian route, the visibility splay is not as critical as if it was a vehicle exit junction.

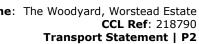
It is considered that there is suitable forward visibility along Sloley Road to allow safe entry and exit to the site.



Project Name: The Woodyard, Worstead Estate **CCL Ref**: 218790

Transport Statement | P2

Refuse and delivery vehicles will access from the north (along the upgraded access road) and exit via the north gate, after turning at a suitable location. The turning area and swept path of the turning movement is also shown in Appendix C.





TRIP GENERATION

4.1 Introduction

This section considers the trips associated with the existing site use and the trips associated with the proposed development.

4.2 **Existing Trips**

The site has planning permission for use as a wedding venue, with restriction on events taking place at weekends only, primarily on Saturdays. There is a limit to guest numbers. The venue could cater for approximately 110 visitors, with 10 staff anticipated.

It is considered that most guests would arrive in pairs, as families or as multiple couples in a single vehicle, as such the parking levels (53 spaces) are considered appropriate.

4.3 **Proposed Trips**

Due to the nature of the site it is considered that the majority of the trips will fall outside the peak hours on the traffic network as people will be visiting The Woodyard for weddings and other event celebrations, such as dinners, parties, christenings.

There are some permissive routes and PRoW in the surrounding area. Although there are travel options available, given the use and as most guests will be in smart attire, it is envisaged that the majority of guest will arrive by car or pre-arranged transport (shared wedding bus, taxi, car share etc)

The development size doesn't change, the proposals are to open up the use to enable other events as well as weddings, although there will be a limit to two events a week. It is proposed to limit the events to one weekday and one weekend event each week. The trips could therefore double as currently only one weekend event is permitted.

Any deliveries to the site are also considered to take place outside the peak hours of the surrounding highway network. Weekday set up is available from midday.

We looked to obtain TRICS data, although there were no comparable or similar sites.

Overall, it is considered that the trips associated with the proposed development will not have a significant impact on the surrounding highway network. Additionally, the trips that are generated by the proposed development will mostly fall outside of the peak hours on the highway network. With the re-routing of the Woodyard trips away from the east access, and the improvements being made offsite, there will be an improvement on the local country roads, with traffic re-routed to the north access and to the A149.

Given these predicted traffic flows there will be minimal impact on the traffic using Dilham Road. As there will be an increase in trips at the Dilham / A149 junction, it is proposed to provide a splitter island to improve the junction layout. A draft proposal is shown in Appendix E. It is suggested that the detailed design of the offsite highway improvements be conditioned by a suitable worded condition and through a S278 agreement.

4.4 **Travel Plan**

A travel plan will be implemented which will promote the travel modes available and routes for accessing the site. This will highlight the different modes of travel to the site.



4.5 Offsite Accommodation

A study of offsite third-party accommodation (within 5 miles) has been undertaken. See Figure 2 below for the 5-mile radius reviewed.



Figure 2: 5-mile radius Accommodation Area

Google maps (fastest route) has been used as this is commonly used as a navigation tool. The assessment uses google maps. Table 1 shows that 88% of third-party accommodation (those not living locally) would exit east onto Dilham Road with 12% headed west towards Worstead.

| North Drive | | WEST | EAST |
|-------------|-----------------------------|------|------|
| EAST | Dilham Rd - A149 (NORTH) | | 20 |
| EAST | Dilham Rd - A149 (NORTH) | | 12 |
| EAST | Dilham Rd - Honing Rd | | 8 |
| EAST | Dilham Rd - A149 (South) | | 6 |
| EAST | Dilham Rd - Church Rd | | 46 |
| WEST | Westwick Rd - Withergate Rd | 2 | |
| EAST | Dilham Rd - A149 (South) | | 18 |
| EAST | Dilham Rd - A149 (South) | | 8 |
| EAST | Dilham Rd - A149 (North) | | 28 |
| WEST | Westwick Rd - B1150 (South) | 16 | |
| EAST | Dilham Rd - A149 (South) | | 4 |
| EAST | Dilham Rd - A149 (South) | | 11 |
| EAST | Dilham Rd - A149 (South) | | 59 |
| WEST | Dilham Rd | 12 | |
| | | 30 | 220 |
| | | 12% | 88% |

Table 1: Routes of non-local Traffic



Project Name: The Woodyard, Worstead Estate

CCL Ref: 218790

Transport Statement | P2

4.6 Worstead Estate Accommodation

There are currently facilities for 31 guests (28% of the maximum 110 guests) within the Worstead Estate properties.

4.7 Impact During Construction

The development of the site will provide an element of HGV traffic during construction. Whilst this is unavoidable, movements will be restricted, where appropriate, to hours that would not cause undue disturbance to the local area. Access will be restricted to Dilham Road to avoid disruption to the local road network.



Project Name: The Woodyard, Worstead Estate **CCL Ref**: 218790

Transport Statement | P2

5 SUMMARY

The proposed development is to enable different types of events and not limit to weddings only. The development will see a restriction to one weekend and one weekday event each week. The proposal also includes for improved access arrangements and offsite highways improvements.

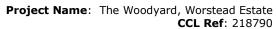
The site will be accessed via an upgraded two-way estate road that connects to Dilham Road at the northern gate. The North Gate access will be upgraded to form a new T junction with 215m visibility splays in both directions. This access re-instates a previously used access.

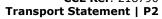
The trips associated with the proposed development will, for the most part, fall outside the peak hours on the surrounding highway network. Due to the introduction of the new and improved access strategy the impact on the local road network will be minimised, with vehicles removed from the east (Chapel Road and Mill Lane) and west gate (Solely Road), with traffic reassigned to the north access (Dilham Road).

The impact on the local road network will be limited to the short section of Dilham Road between the A149 junction and the proposed upgraded North Gate junction. Other areas of the local highway network will see a benefit, with cars removed from those roads.

It is proposed to provide a splitter island at the junction of Dilham Road / A149 to improve the junction layout.

Considering the above information, it is considered that the proposed development will have a positive impact on the surrounding local highway network.







Appendix A Proposed Development Layout



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all dimensions to be checked on site and architect notified of any discrepancies prior to commencement. do not scale.

PLANNING BOUNDARIES

WORSTEAD PARK, APPLICANT'S OWNERSHIP

PLANNING BOUNDARY THE WOOD YARD, LANDSCAPE AREAS AND VEHICULAR ACCESS ROUTE

EXISTING LANDSCAPE AREAS



EXISTING WOODLAND



WATER



DISABLED PARKING AREA



PARKING AREA

WALLED GARDEN



OVERFLOW PARKING AREA

PROPOSED ACCESS ROUTE



PROPOSED VEHICULAR ACCESS ROUTE



PROPOSED PAVEMENT



status: PLANNING

client: WORSTEAD FARMS LTD

job: THE WOOD YARD AND ISLAND

title: LOCATION PLAN

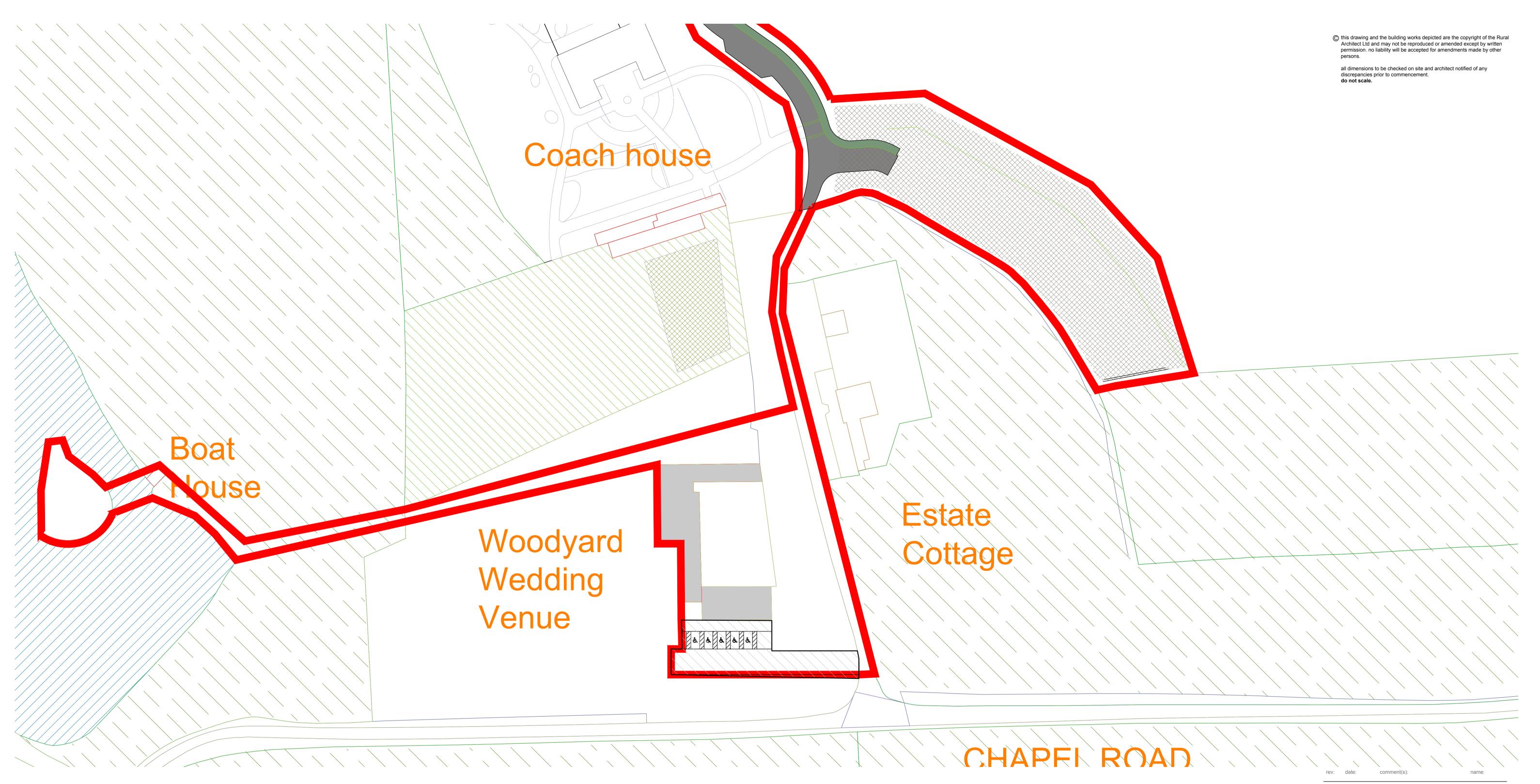
date: APRIL 2023

scale @ a1:1: 3000

job no:23.22

drg no:01





status: PLANNING

client: WORSTEAD FARMS LTD

job: THE WOOD YARD

title: SITE PLAN

date: APRIL 2023 scale @ a1:1: 500

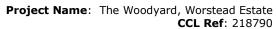
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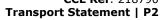
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North

SITE PLAN 1:500







Appendix B Proposed Access Arrangements



PRELIMINARY DRAWING:
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SCALE 1:200m 0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20 SCALE BAR FOR INFORMATION ONLY

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WORSTEAD ESTATE

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THE WOODYARD, WORSTEAD ESTATE

itle NORTH ACCESS PLAN

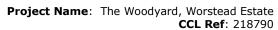
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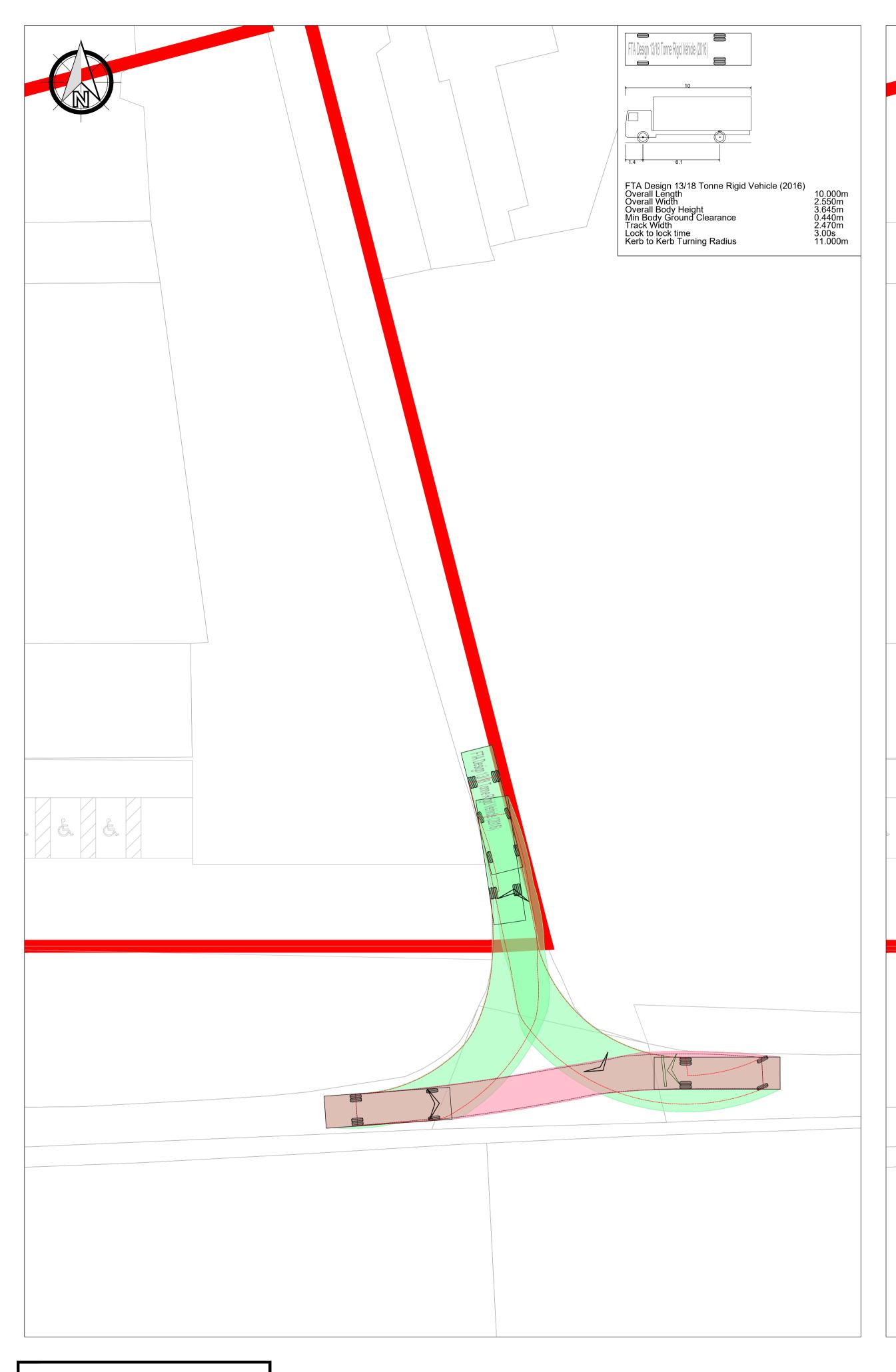
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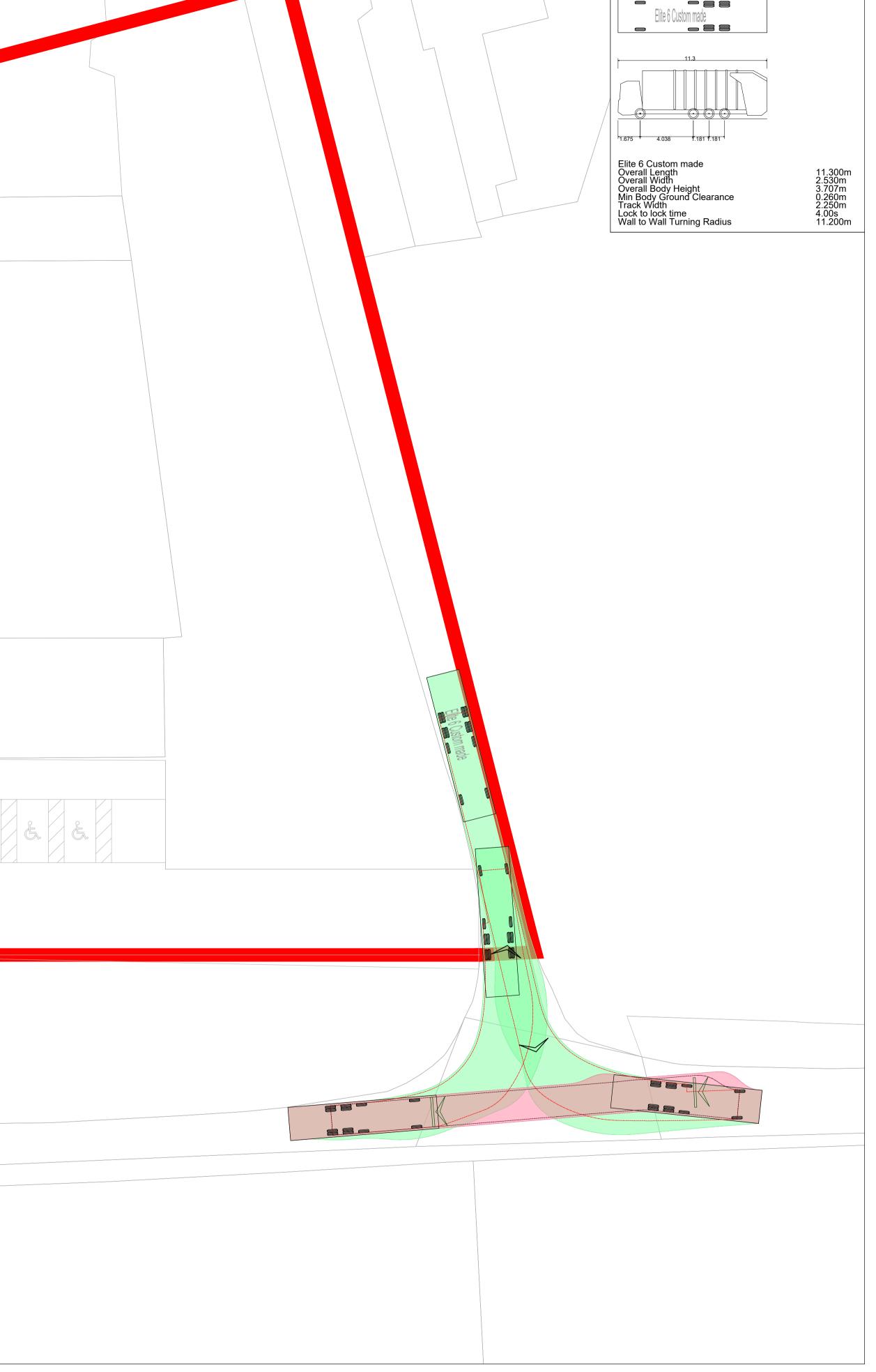


Transport Statement | P2



Appendix C Swept Path Plans





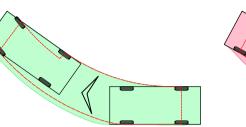
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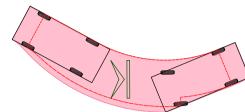
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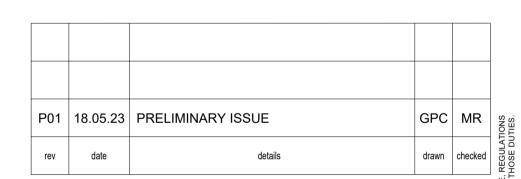
VEHICLE SWEPT PATH - KEY TO SYMBOLS





VEHICLE MOVING FORWARD VEHICLE MOVING IN REVERSE BODY OUTLINE - GREEN SHADING BODY OUTLINE - RED SHADING WHEEL TRACK - RED DOTTED LINE WHEEL TRACK - RED DOTTED LINE

PROPOSED SITE BOUNDARY





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Building

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WORSTEAD ESTATE

THE WOODYARD, WORSTEAD ESTATE

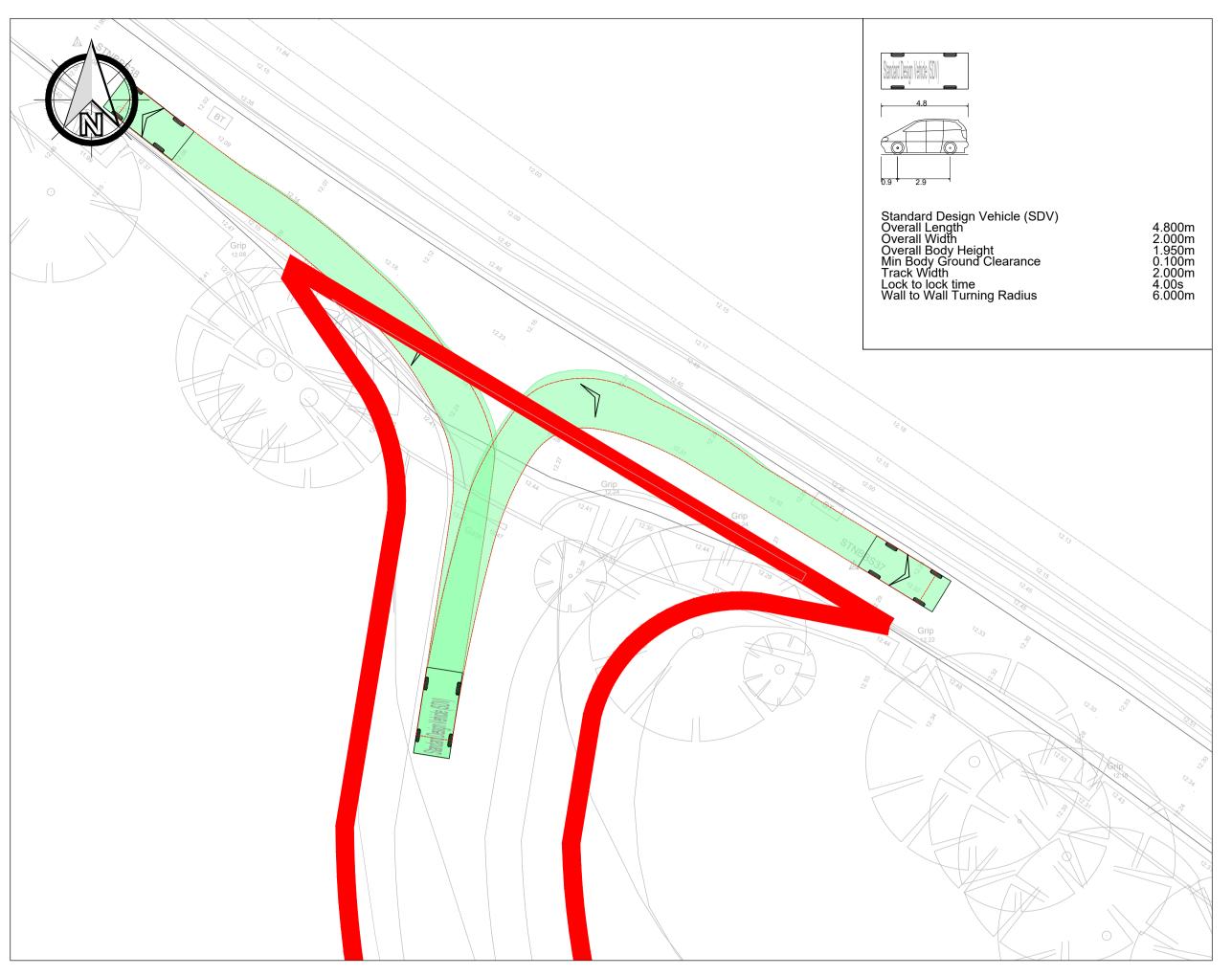
VEHICLE SWEPT PATH ANALYSIS **TURNING AREA**

218790 GPC GPC MR 1:200 A1 (L) 18.05.2023

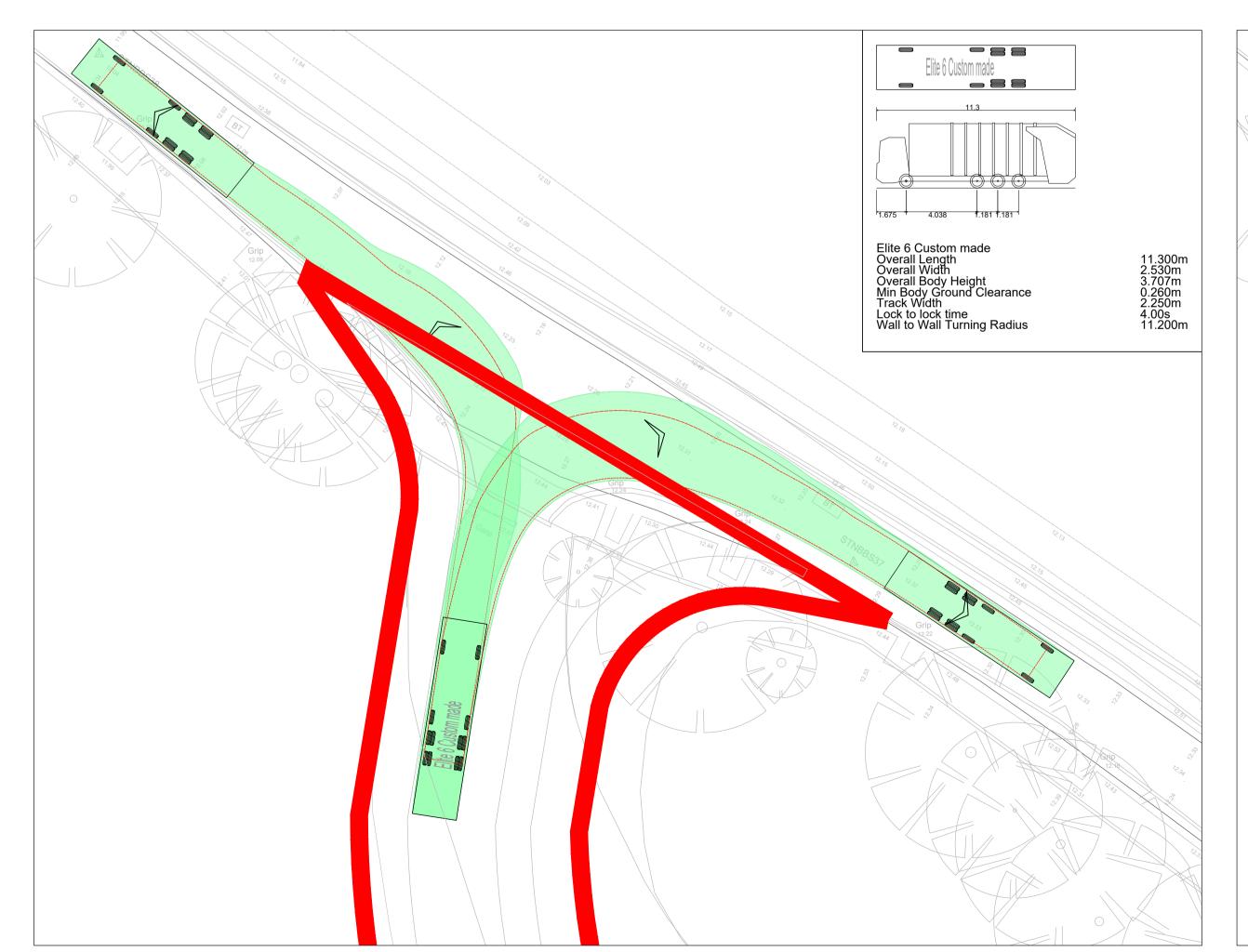
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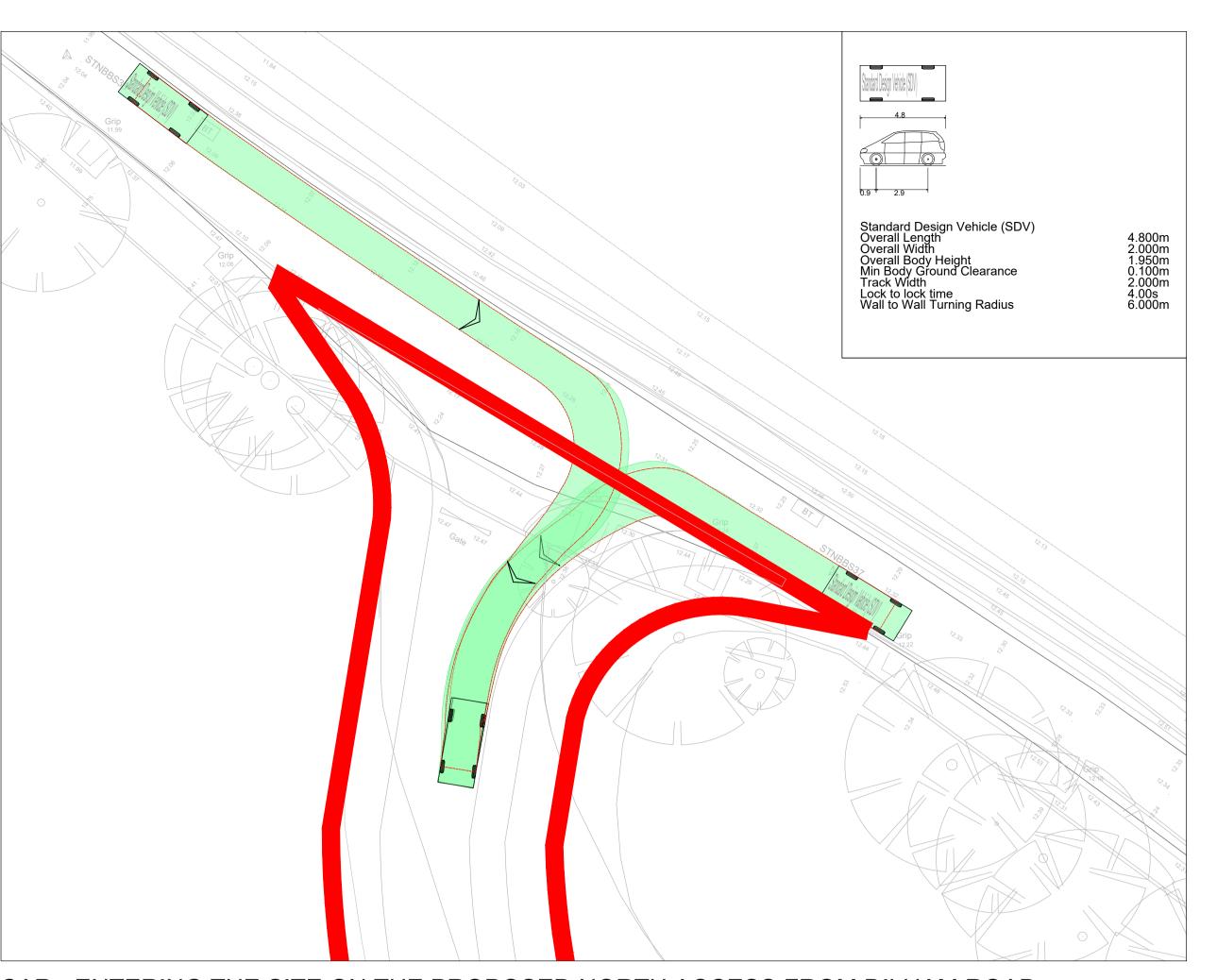
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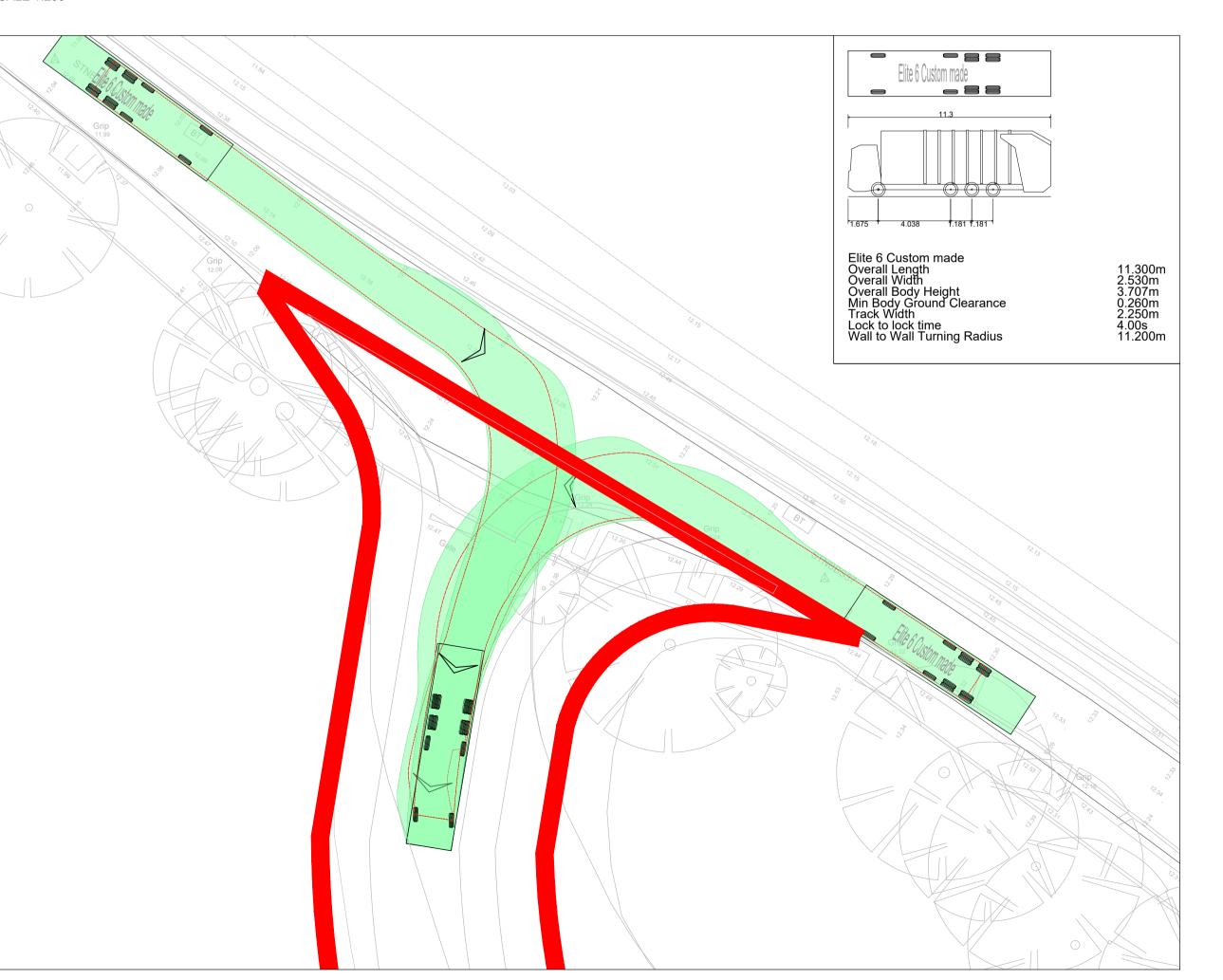
CAR - EXITING THE SITE FROM THE PROPOSED NORTH ACCESS TO DILHAM ROAD SCALE 1:200



REFUSE VEHICLE - EXITING THE SITE FROM THE PROPOSED NORTH ACCESS TO DILHAM ROAD SCALE 1:200



CAR - ENTERING THE SITE ON THE PROPOSED NORTH ACCESS FROM DILHAM ROAD SCALE 1:200



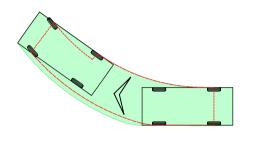
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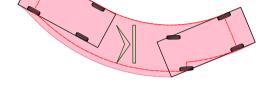
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- 8. THE PROPOSED SITE LAYOUT SHOWN ON THIS DRAWING IS BASED UPON THE RURAL ARCHITECT DRAWING 23.22-01, DATED APRIL 2023.

VEHICLE SWEPT PATH - KEY TO SYMBOLS





VEHICLE MOVING FORWARD BODY OUTLINE - GREEN SHADING WHEEL TRACK - RED DOTTED LINE

VEHICLE MOVING IN REVERSE BODY OUTLINE - RED SHADING WHEEL TRACK - RED DOTTED LINE

<u>LEGEND</u>

PROPOSED SITE BOUNDARY

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| P01 | 18.05.23 | PRELIMINARY ISSUE | GPC | MR |
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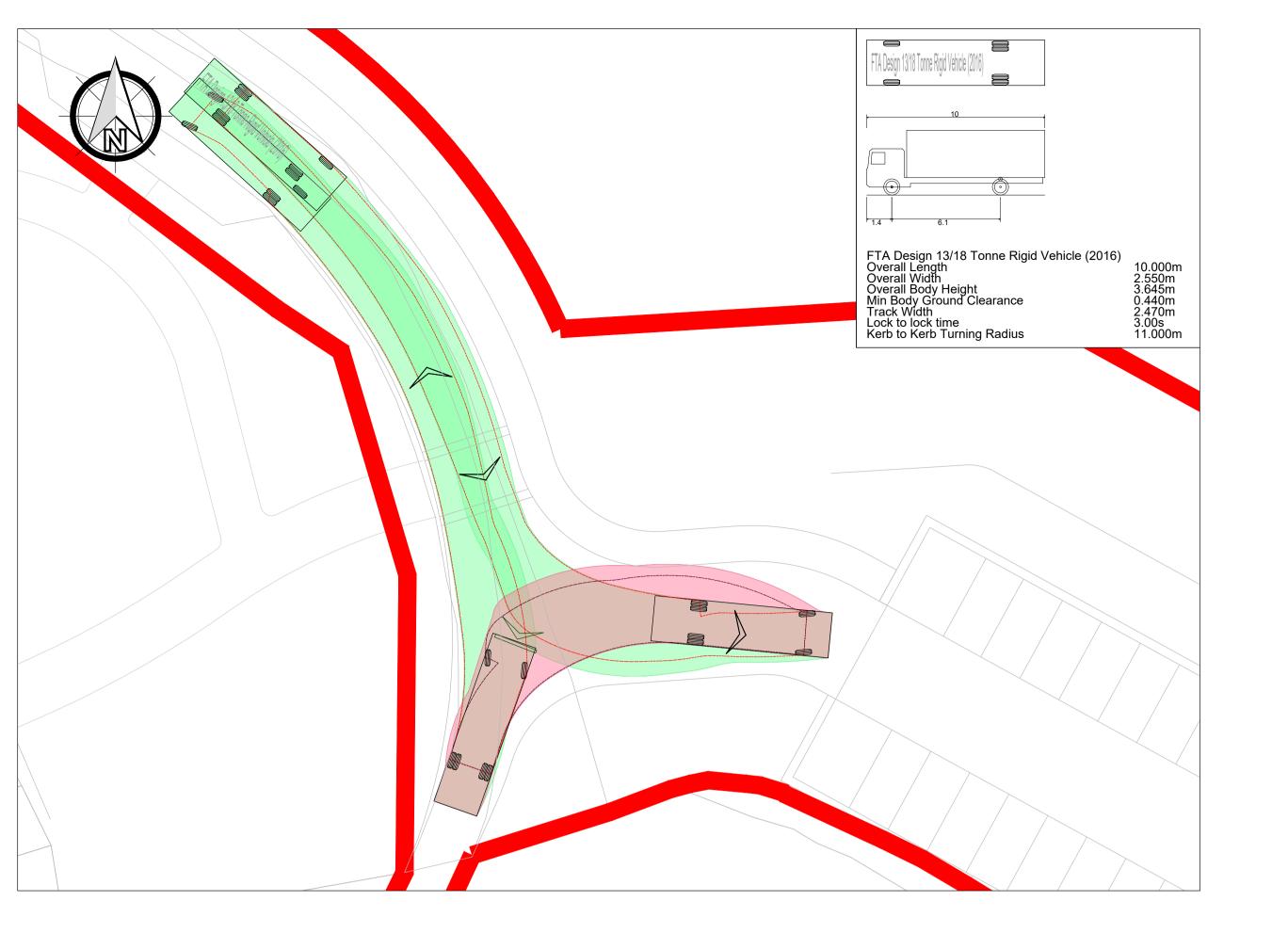
VEHICLE SWEPT PATH ANALYSIS **NORTH ACCESS**

1:200 A1 (L) 18.05.2023

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218790-CCL-XX-XX-DR-C-5506 P01

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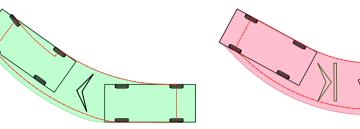




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VEHICLE SWEPT PATH - KEY TO SYMBOLS

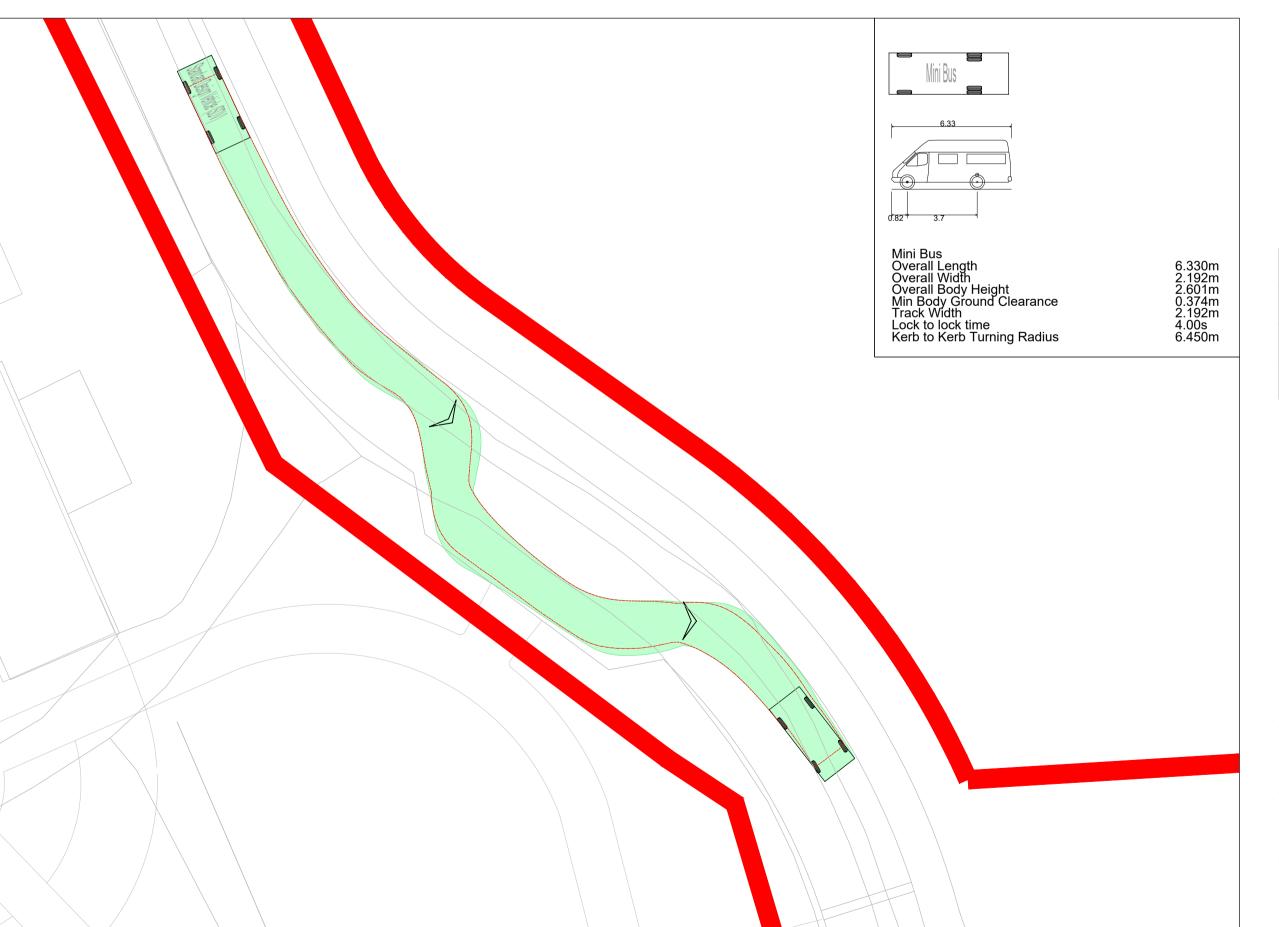


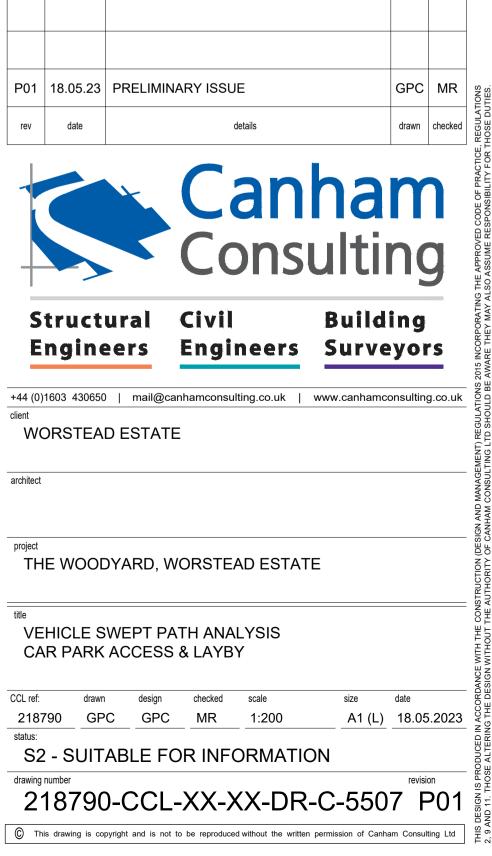
VEHICLE MOVING FORWARD
BODY OUTLINE - GREEN SHADING
WHEEL TRACK - RED DOTTED LINE
VEHICLE MOVING IN REVERSE
BODY OUTLINE - RED SHADING
WHEEL TRACK - RED DOTTED LINE

LEGEND

PROPOSED SITE BOUNDARY

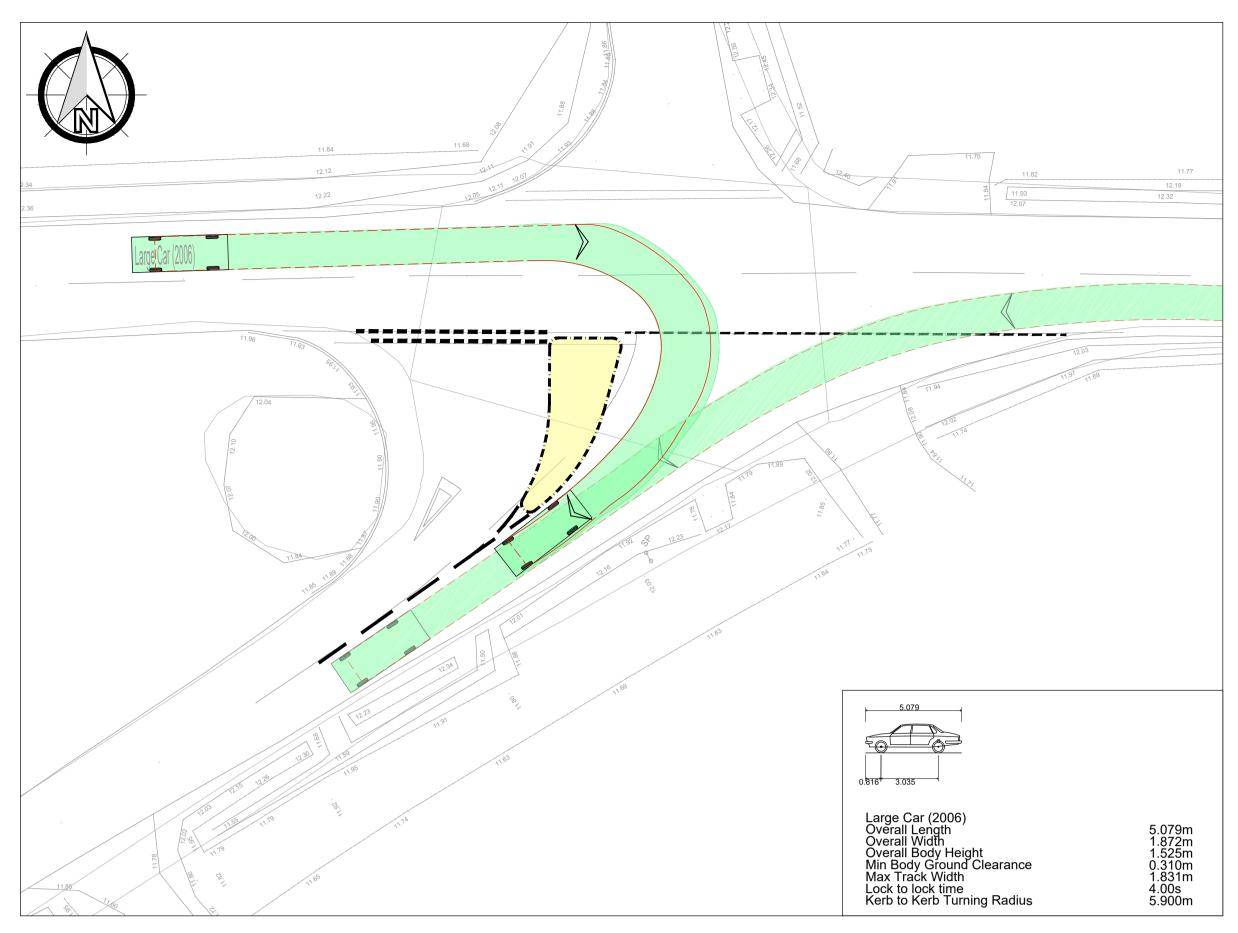




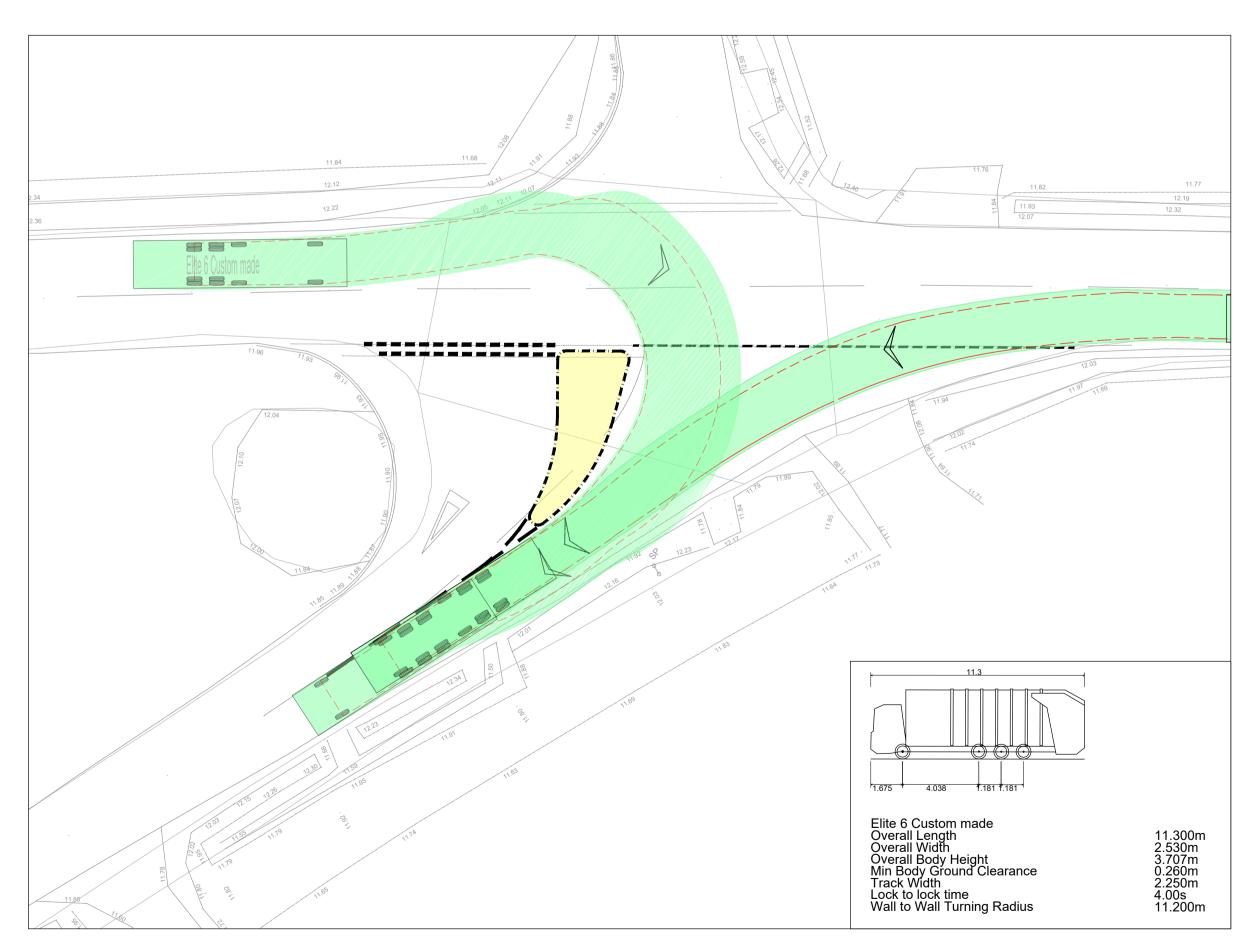


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SCALE 1:200m 0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m SCALE BAR FOR INFORMATION ONLY



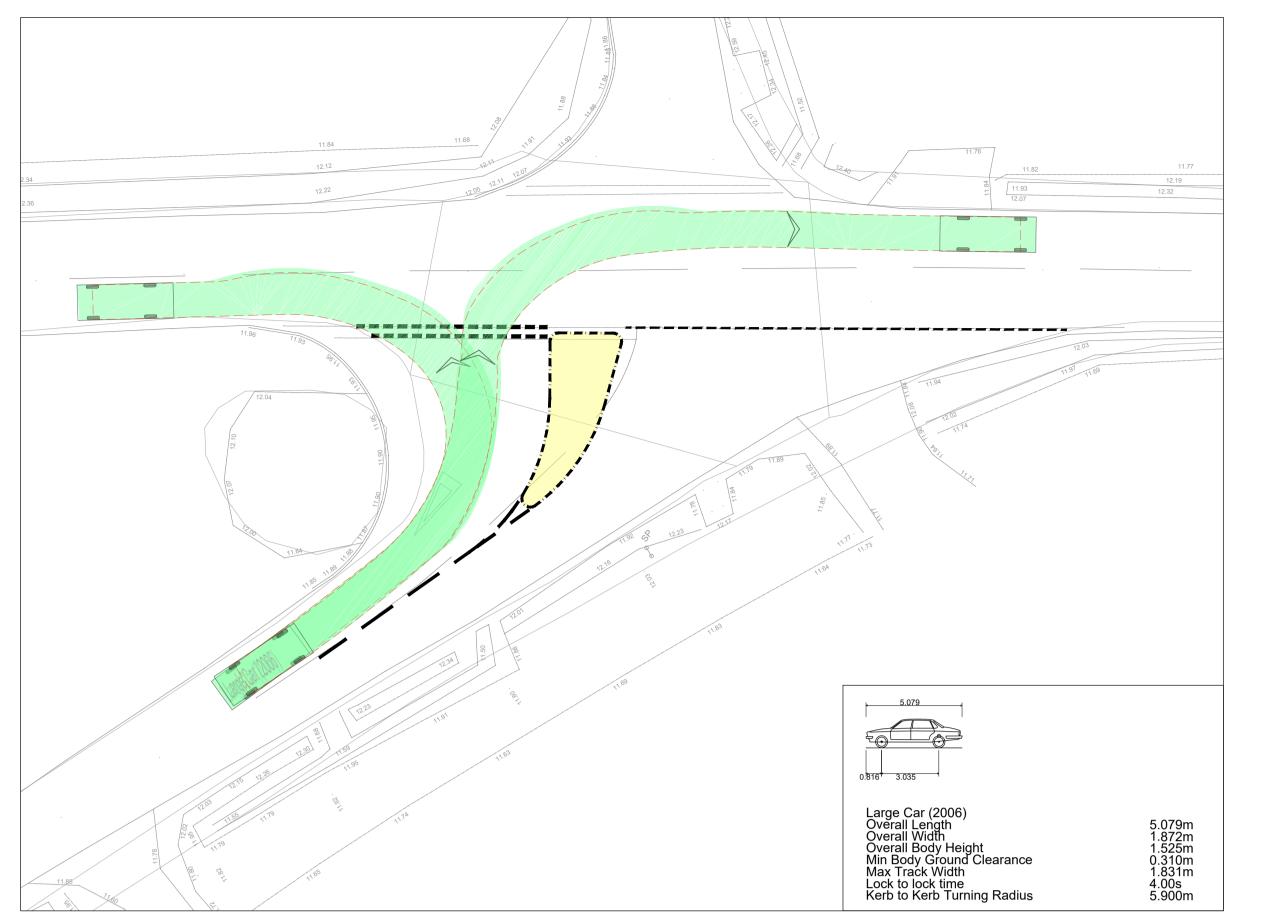
LARGE CAR - ENTERING FROM DILHAM ROAD SCALE 1:200



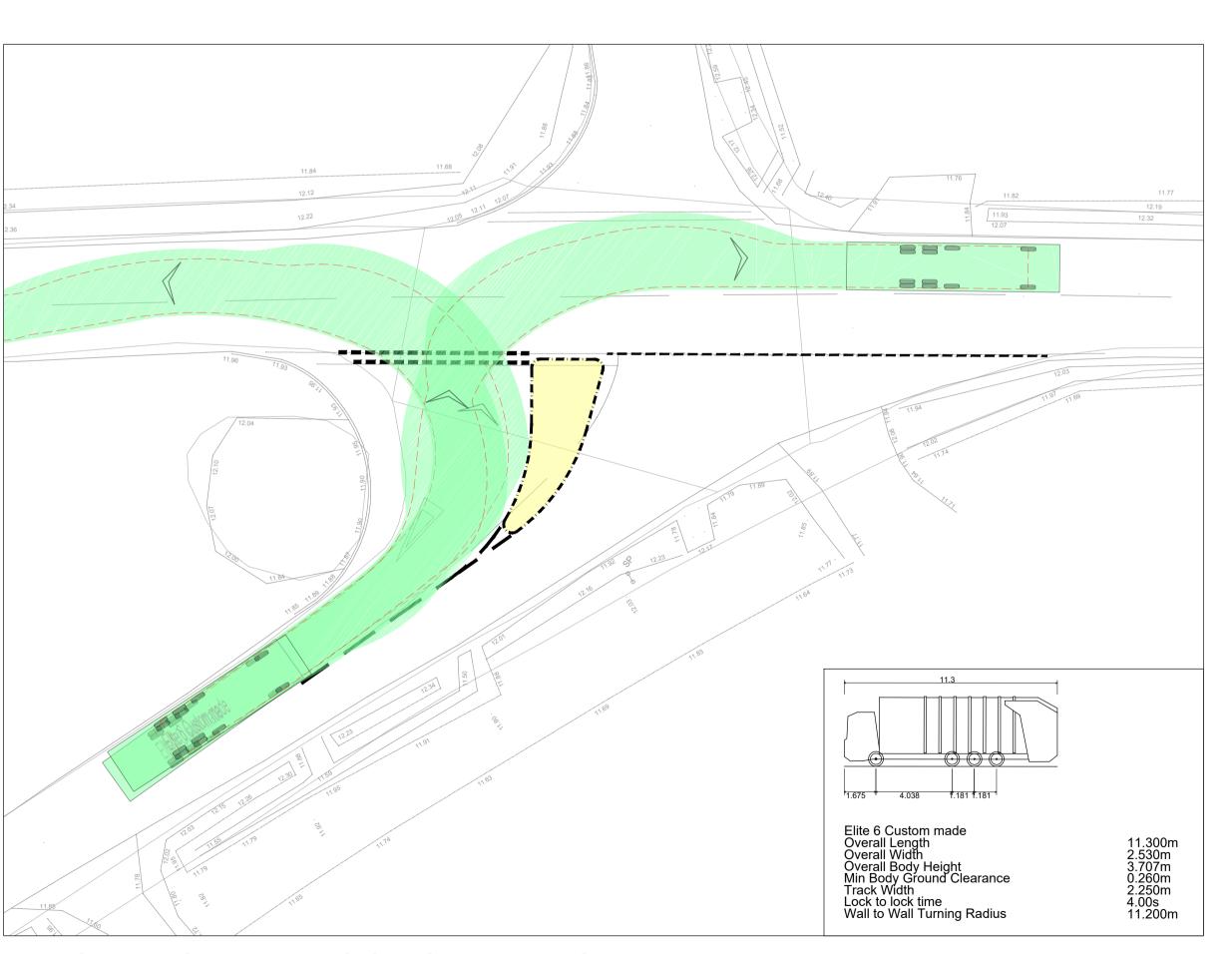
REFUSE VEHICLE - ENTERING FROM DILHAM ROAD SCALE 1:200

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LARGE CAR - EXITING ONTO DILHAM ROAD **SCALE 1:200**



REFUSE VEHICLE - EXITING ONTO DILHAM ROAD SCALE 1:200

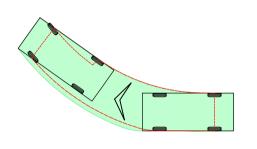
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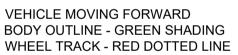
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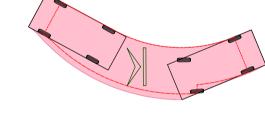


PROPOSED HB2 KERB

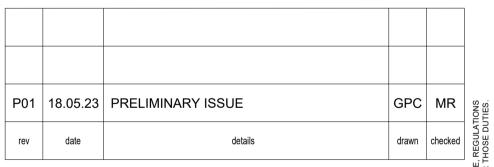
VEHICLE SWEPT PATH - KEY TO SYMBOLS







VEHICLE MOVING IN REVERSE BODY OUTLINE - RED SHADING WHEEL TRACK - RED DOTTED LINE





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VEHICLE SWEPT PATH ANALYSIS SPLITTER ISLAND

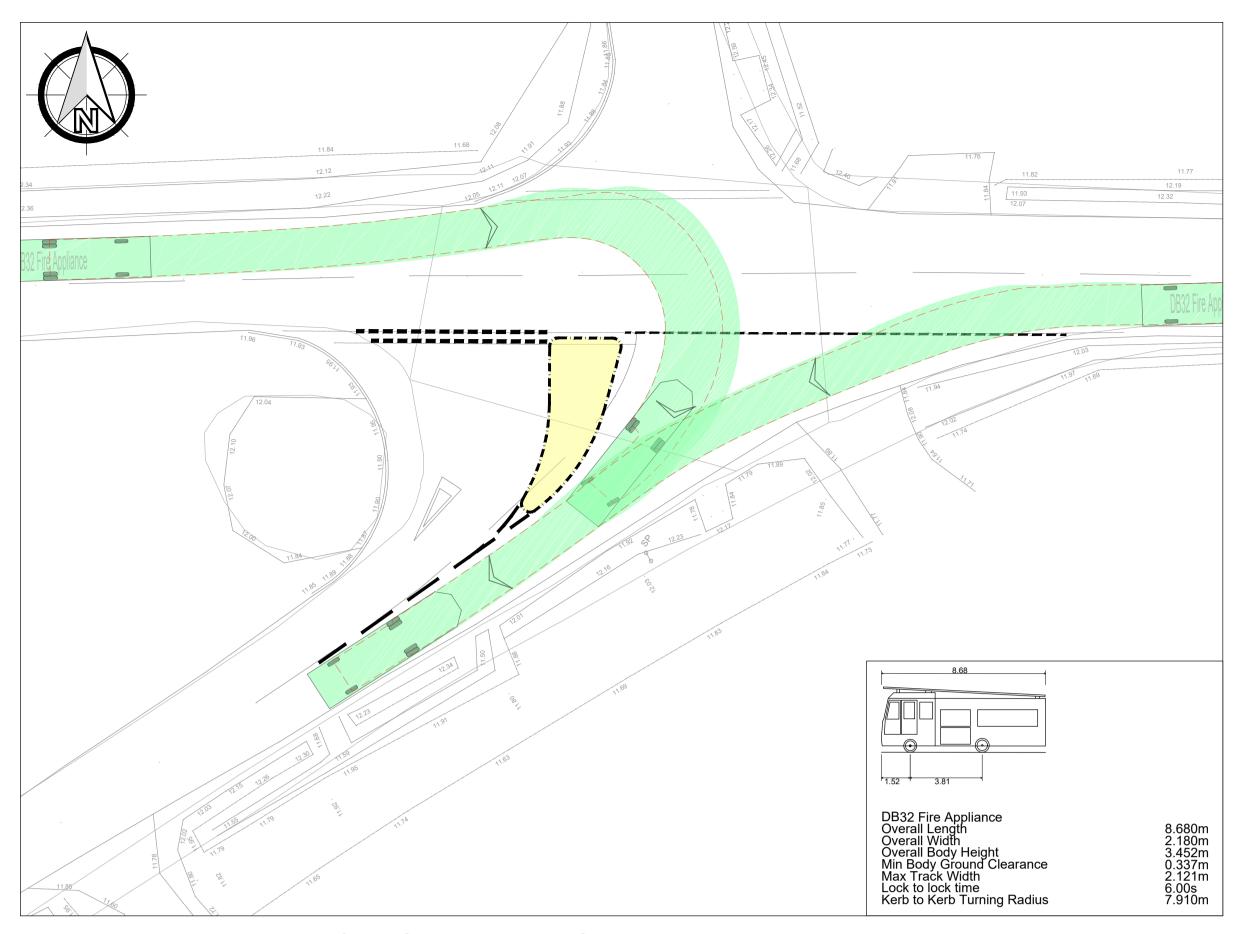
SHEET 1 OF 2

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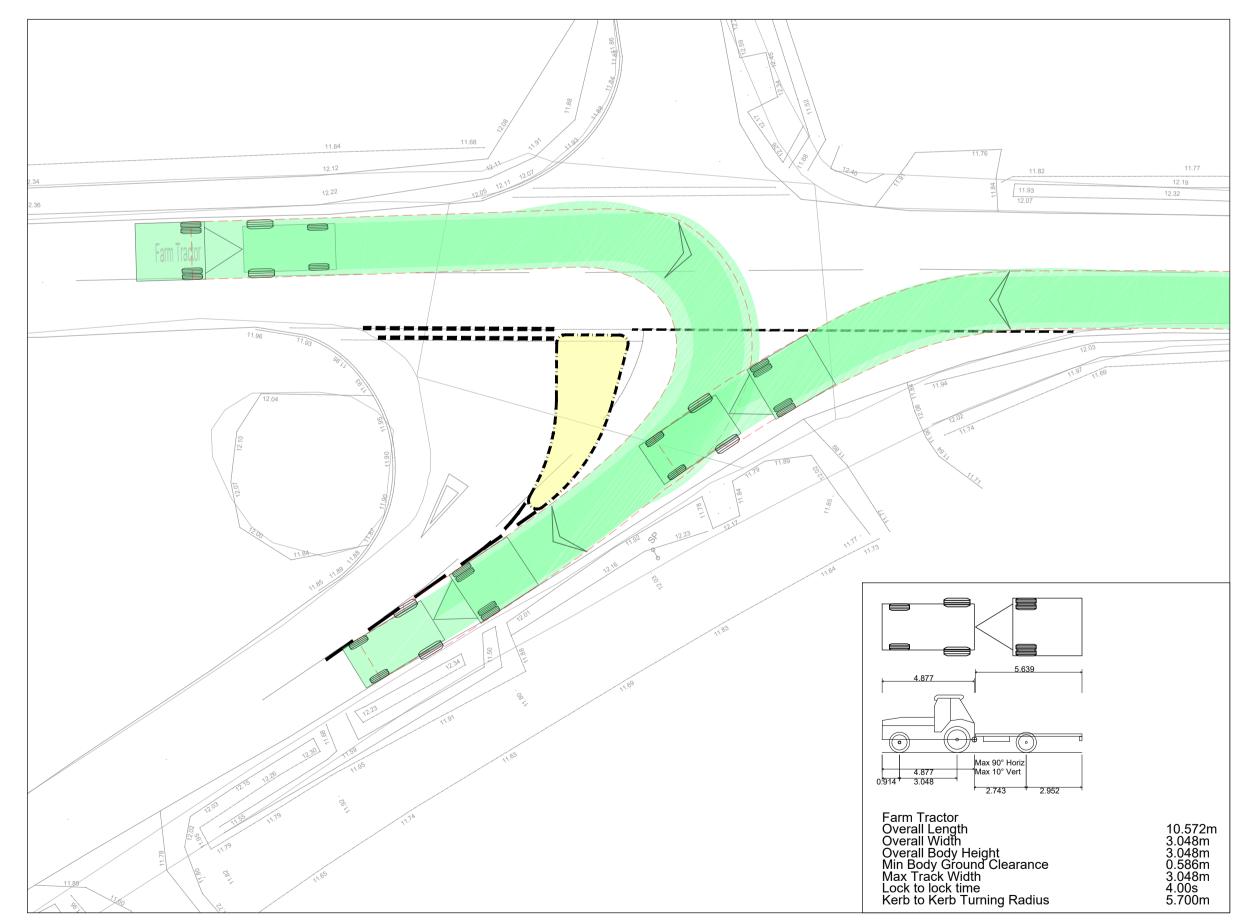
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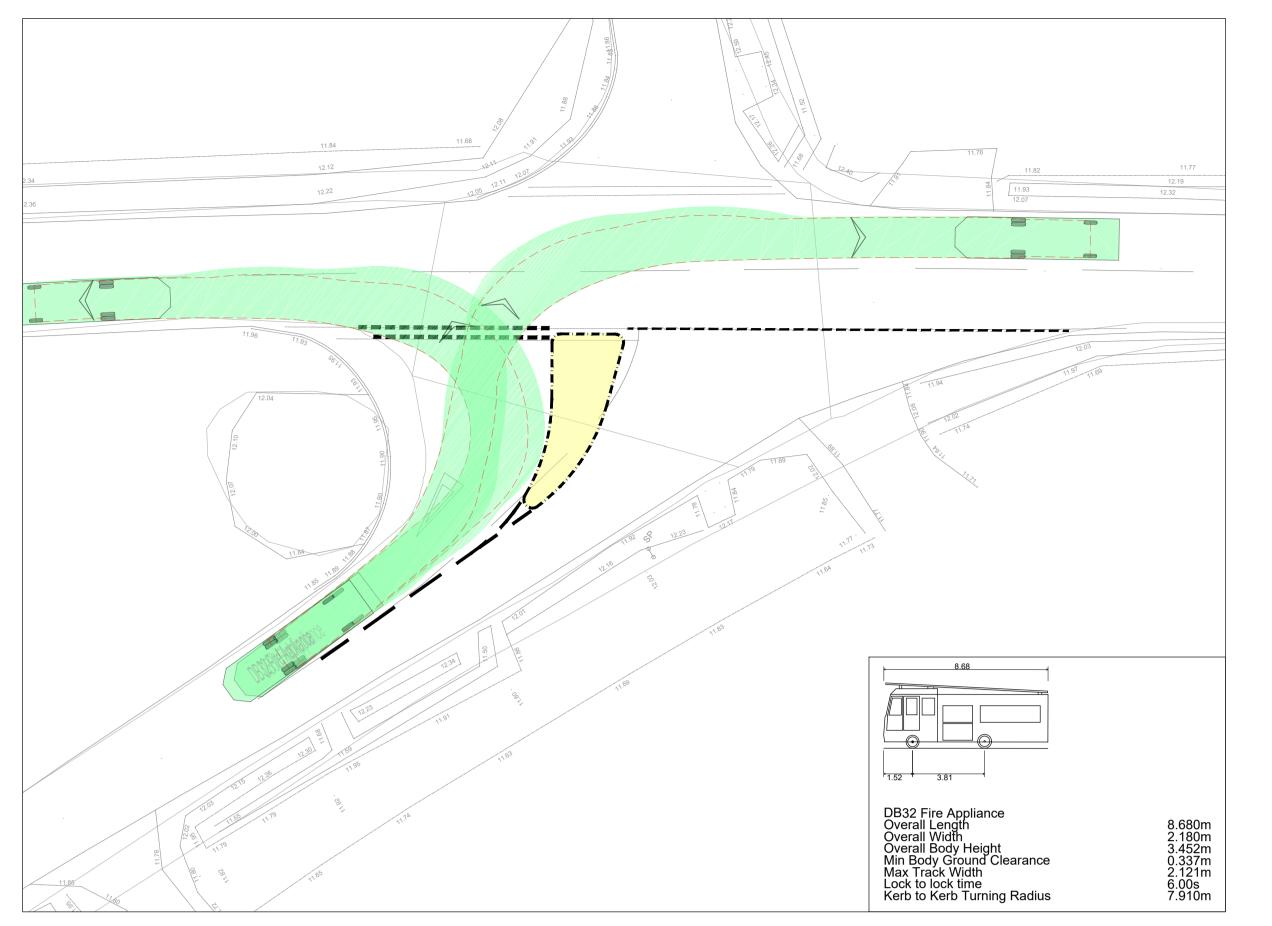
FIRE TENDER - ENTERING FROM DILHAM ROAD SCALE 1:200



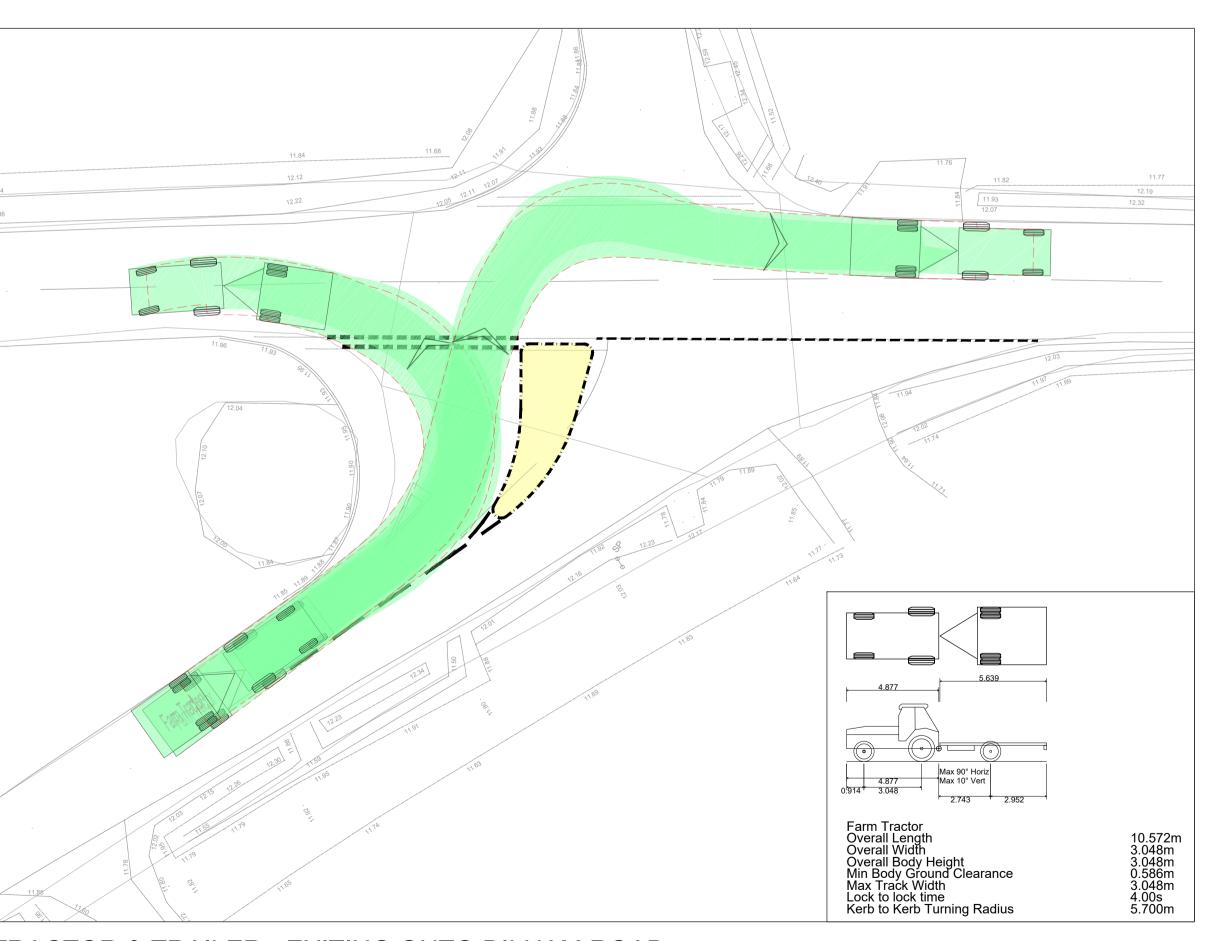
TRACTOR & TRAILER - ENTERING FROM DILHAM ROAD SCALE 1:200

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0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m SCALE BAR FOR INFORMATION ONLY



FIRE TENDER - EXITING ONTO DILHAM ROAD **SCALE 1:200**



TRACTOR & TRAILER - EXITING ONTO DILHAM ROAD SCALE 1:200

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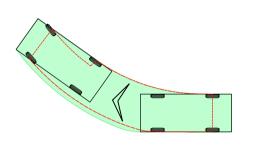
LEGEND



PROPOSED SPLITTER ISLAND

PROPOSED HB2 KERB

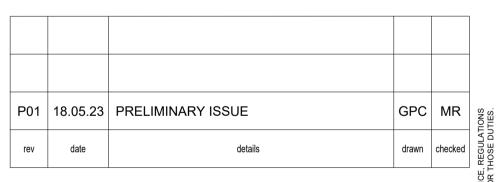
VEHICLE SWEPT PATH - KEY TO SYMBOLS





VEHICLE MOVING FORWARD BODY OUTLINE - GREEN SHADING WHEEL TRACK - RED DOTTED LINE

VEHICLE MOVING IN REVERSE BODY OUTLINE - RED SHADING WHEEL TRACK - RED DOTTED LINE





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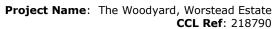
VEHICLE SWEPT PATH ANALYSIS SPLITTER ISLAND SHEET 2 OF 2

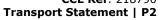
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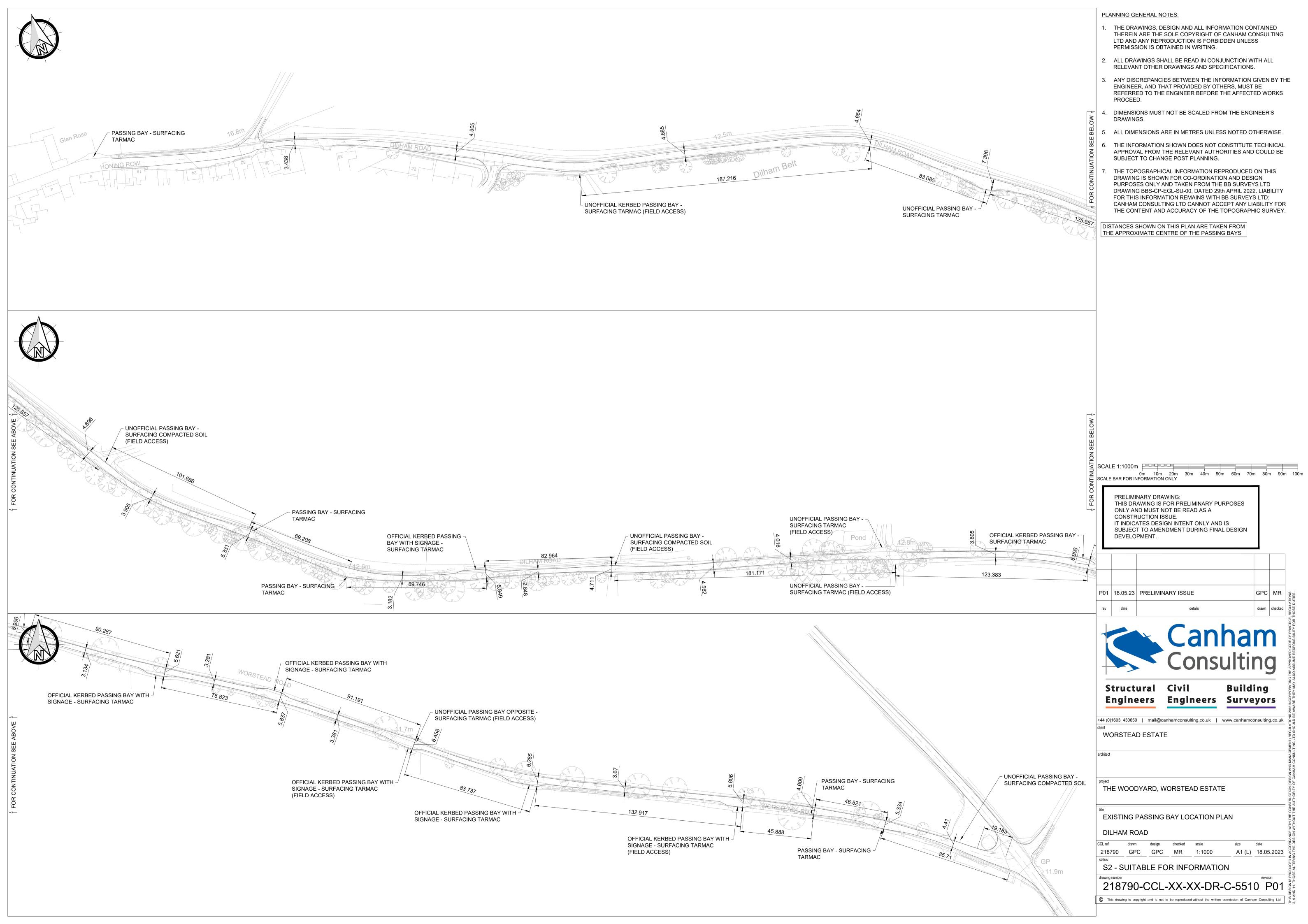
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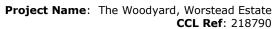


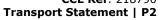


Appendix D Offsite Passing Bays



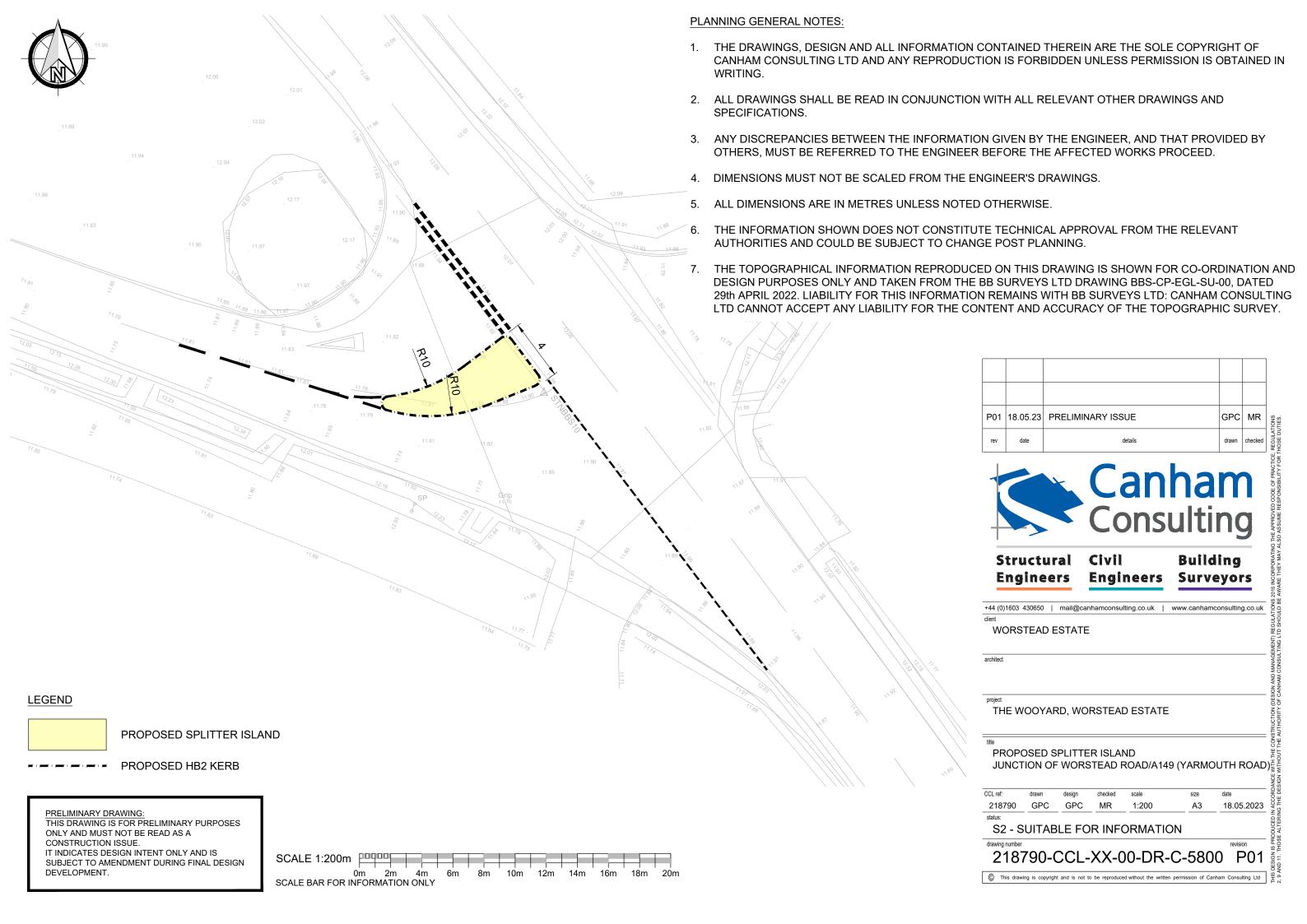


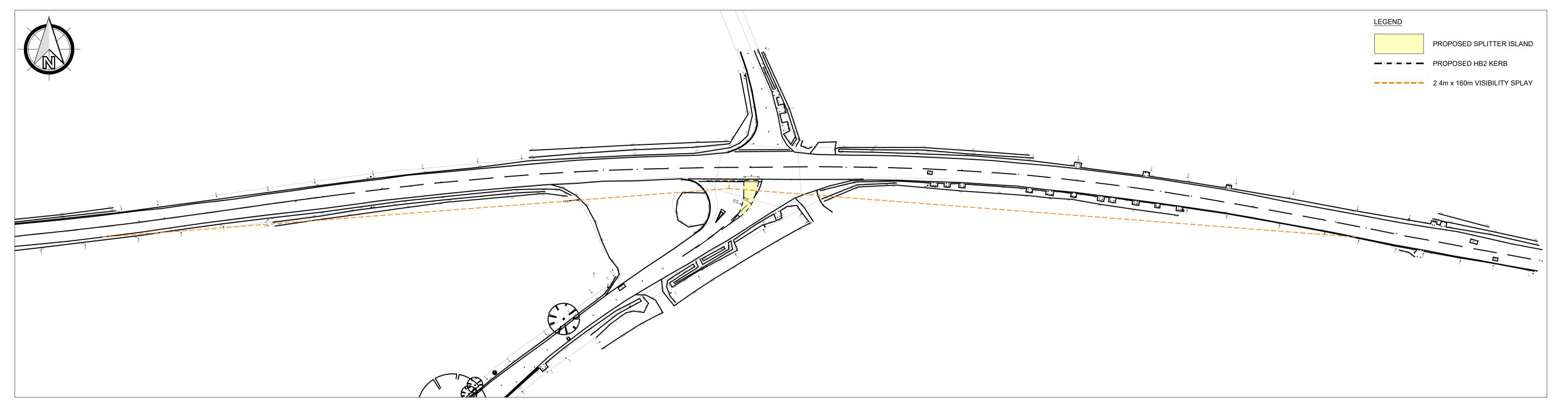




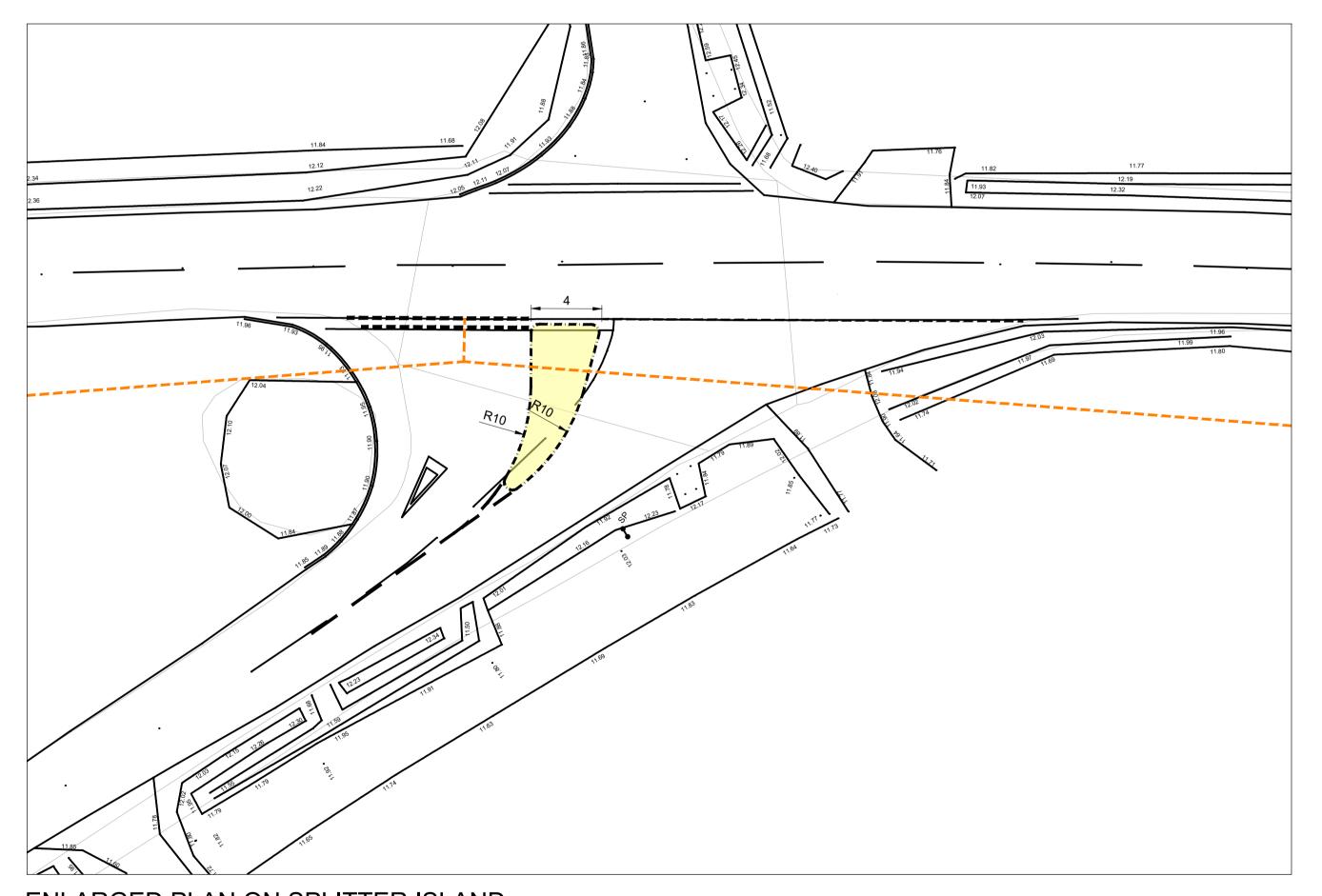


Appendix E Offsite Improvements





VISIBILITY SPLAY TO SPLITTER ISLAND



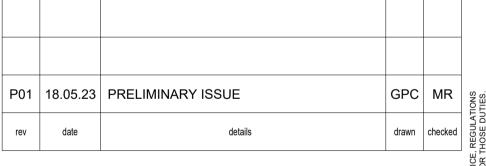
ENLARGED PLAN ON SPLITTER ISLAND

SCALE 1:200

DEVELOPMENT.

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