

**PROPOSED DEVELOPMENT: DANSON
ROAD, BEXLEYHEATH**

DESIGNER'S RESPONSE – STAGE 1 ROAD SAFETY AUDIT

**REPORT REFERENCE NO 190320-05
PROJECT NO. 190320
JANUARY 2021**

1.0 INTRODUCTION

1.1 Ardent Consulting Engineers (ACE) has been appointed by Carebase to advise on the highways/transportation aspects of the proposed redevelopment of the existing site at Danson Road, Bexleyheath

1.2 The proposals under consideration are shown on ACE **drawing nos:**

- **190320-001B** – Visibility and Tracking Plan

1.3 This report addresses matters raised in the Stage 1 Road Safety Audit (RSA) undertaken by M&S Traffic Ltd dated 4th January 2021.

APPENDICES

APPENDIX A M&S Stage 1 Road Safety Audit

DRAWINGS

190320-001C Visibility and Tracking Plan

Rev	Issue Purpose	Author	Checked	Approved	Date
-	Planning	AJT	AJT	IW	06.01.2021
			<i>A</i>	<i>IW</i>	

2.0 ROAD SAFETY AUDIT

Problem	Agree / Disagree	Reason / Proposals
<p>3.</p> <p>3.1.1</p> <p>Insufficient gap acceptance could lead to side impact collisions.</p> <p>The proposed egress is located close to the signalised junction with Park View Road and Crook Log, where queueing was observed in the northbound lanes. It is likely that during peak periods traffic may have difficulty turning right when leaving the care facility. In peak periods, there is concern that traffic from the care facility may not have enough gap acceptance to undertake the right turn manoeuvre, which could lead to side impact collisions.</p> <p>RECOMMENDATION</p> <p>It is recommended that a Keep Clear marking, to diagram 1026, should be installed in the northbound lanes at the egress.</p>	<p>Agree</p>	<p>The recommendation to provide Keep Clear markings is accepted.</p> <p>Drawing 190320-001C has been revised to reflect the proposed road markings</p>

Signed:  Design Team Leader

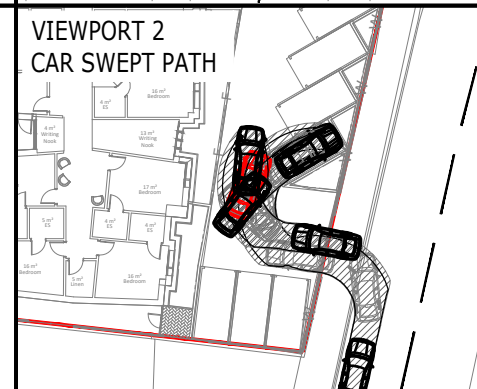
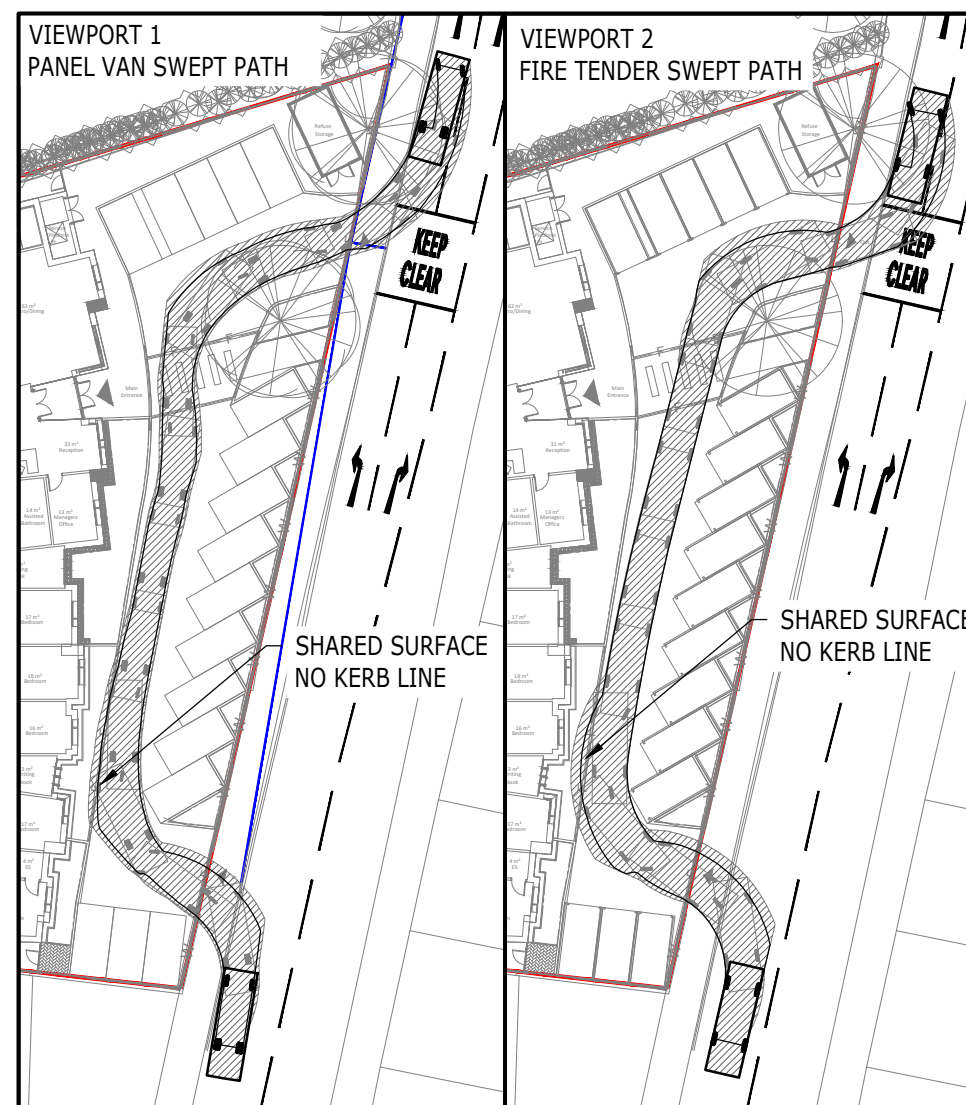
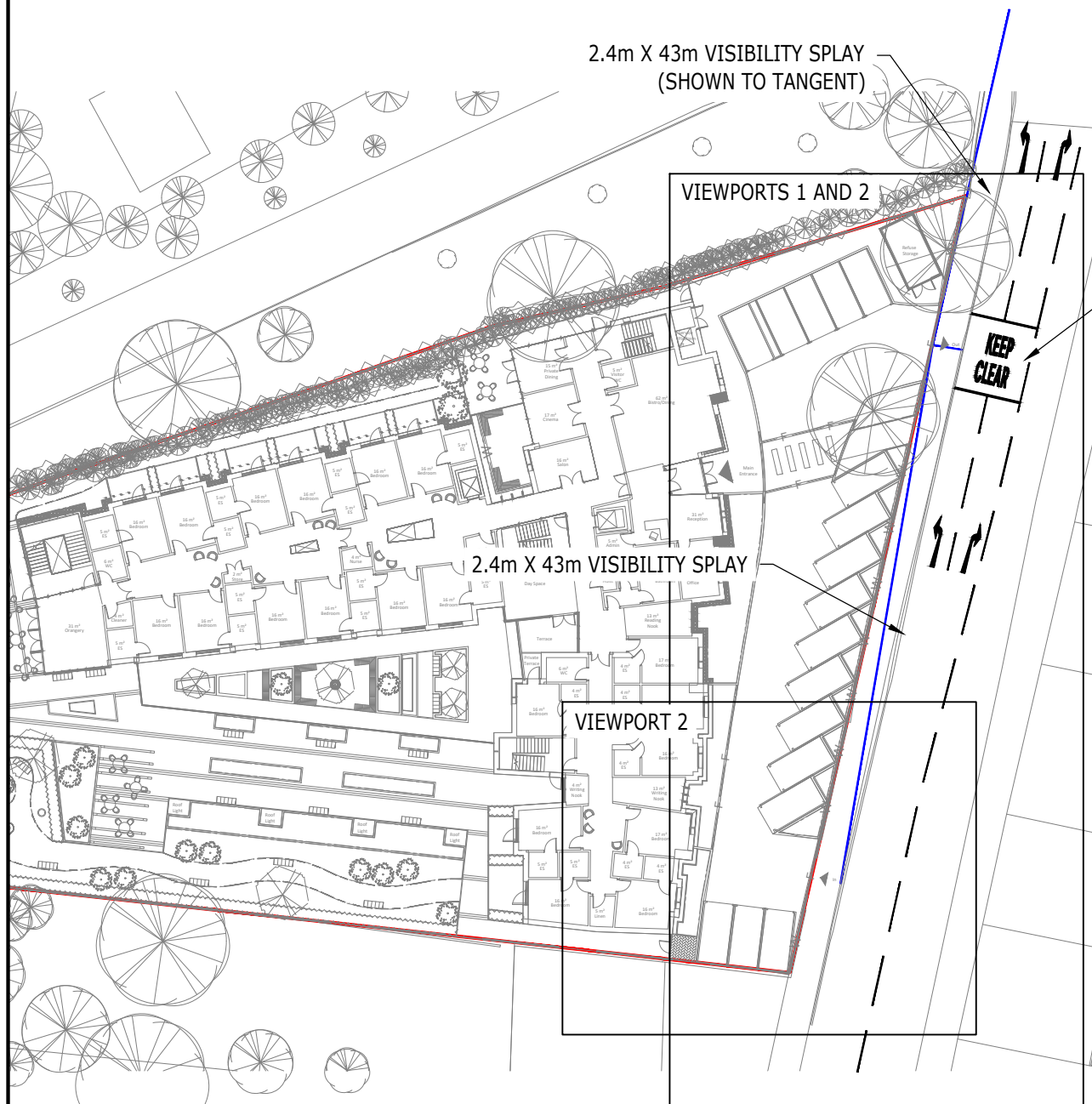
Date: 6th January 2020

Signed:  Audit Team Leader

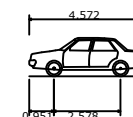
Date: 6th January 2021

PLEASE COMPLETE AND RETURN TO SAFETY AUDIT TEAM

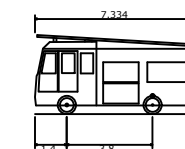
Drawings



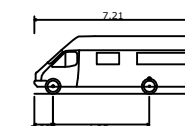
VEHICLE USED:



Car
 Overall Length 4.572m
 Overall Width 1.769m
 Overall Body Height 1.488m
 Min Body Ground Clearance 0.249m
 Max Track Width 1.713m
 Lock to lock time 4.00s
 Kerb to Kerb Turning Radius 5.100m



Fire Tender
 Overall Length 7.334m
 Overall Width 2.286m
 Overall Body Height 3.495m
 Min Body Ground Clearance 0.380m
 Track Width 2.286m
 Lock to lock time 5.00s
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7.5t Panel Van
 Overall Length 7.210m
 Overall Width 2.192m
 Overall Body Height 2.544m
 Min Body Ground Clearance 0.316m
 Track Width 1.865m
 Lock to lock time 4.00s
 Kerb to Kerb Turning Radius 7.400m

DRAFT

C	ROAD MARKINGS ADDED	AA	AT	IW	06.01.21
B	ADDED PANEL VAN TRACKING	BT	DV	IW	19.09.19
A	UPDATED TO LATEST LAYOUT	BT	DV	IW	06.09.19
Rev	Description	Drn	Chk	App	Date

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Client: **CAREBASE**

Project Title: **DANSON ROAD, BEXLEYHEATH**

Drawing Title: **VISIBILITY & TRACKING PLAN**

A3 Scale	Date	Designed by
1:500	14.08.19	AA
Drawn by	Checked by	Approved by
AA	DV	IW
Drawing Number	Rev	
190320-001	C	

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Appendix A



M & S Traffic

Road Safety Audit Stage 1

Proposed Access Arrangements

Danson Road

Bexleyheath

Date: 4th January 2021

Report produced for: **Ardent Consulting Engineers**

Report produced by: M & S Traffic

DOCUMENT CONTROL SHEET

M&S Traffic has prepared this report in accordance with the instructions from Ardent Consulting Engineers. M&S Traffic shall not be liable for the use of any information contained herein for any purpose other than the sole and specific use for which it was prepared.

Report Title:	Danson Road, Bexleyheath Road Safety Audit Stage 1
Date:	4th January 2021
Document reference and revision:	ARD/21/190320/1/BS
Prepared by:	M & S Traffic
On behalf of:	London Borough of Bexley

Distribution

Organisation	Contact	Copies
Ardent Consulting Engineers	Andrew Trowbridge	-
Ardent Consulting Engineers	Ian Wharton	-

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2 Safety issues raised at previous Audits	6
3 Items raised at the Stage 1 Audit	7
4 Issues identified during the road safety audit that are outside the terms of reference	8
5 Auditors Statement	9

Appendix A..... List of drawings

Appendix B..... Comment location drawing

1 INTRODUCTION

1.1 This report describes a Stage 1 Road Safety Audit carried out on proposed access arrangements associated with a 70-no. bedroom care home, associated car parking and internal landscaping off Danson Road, Bexleyheath, as detailed below:

- Vehicular access is proposed to be taken from the southern end of the site, with egress from the development from the northern end of the site onto Danson Road. This arrangement will provide separate access and egress points into the site, with clear signage advising motorists of the entry and exit situation.
- The existing access points on Danson Road will be closed and no longer be used. Footways will be reinstated, and dropped kerbs removed.

The Audit was requested by the design organisation, Ardent Consulting Engineers, 1-2 Crescent Court, High Street, Billericay CM12 9AQ, on behalf of the London Borough of Bexley as the Overseeing Organisation.

1.2 The Audit Team membership was as follows:

Bryan Shawyer BEng (Hons), MSc, MCIHT, MSoRSA – Audit Team Leader
Highways England Approved RSA Certificate of Competency

Martin Morris, PGD, MCIHT, MSoRSA – Audit Team Member
Highways England Approved RSA Certificate of Competency

1.3 The audit was undertaken following the principles of GG119, The Design Manual for Roads and Bridges. The documents available at the time of the report are detailed in Appendix A.

1.4 The Audit took place at the Gillingham offices of M&S Traffic during January 2021 and comprised an examination of the documents provided as listed in Appendix A. A joint site visit and inspection was undertaken during the morning of the 4th January 2021 between 11:30 and 12:00 hours. Weather conditions at the time were overcast and the road surface was wet. Traffic flows were low and free flow speeds were low. There were low-level pedestrian flows and no cycle movements observed; however, the audit was undertaken in the Covid-19 period.

1.5 The report has been compiled, only with regards to the safety implications for road users of the layout presented in the supplied drawings. It has not been examined or verified for compliance with any other standards or criteria. This safety audit does not perform any “Technical Check function on these proposals. It is assumed that the Project Sponsor is satisfied that such a Technical Check” has been successfully completed prior to requesting this safety audit.

- 1.6 The auditors have not been informed of any Departures from Standards in this scheme construction. Personal Injury Collision (PIC) data was obtained, where during the 5-year period from the 1st July 2015 to 30th June 2020 there have been three slight collisions in the immediate of the proposed access and egress, as listed below:
- 04/01/17 13:37 – slight injury – V1 pulled out into path of southbound V2.
 - 15/02/17 14:15 – slight injury – rear end shunt collision involving 3 vehicles in the northbound lane.
 - 04/12/18 18:26 – slight injury – Child pedestrian crossed northbound V1 from drivers offside.
- 1.7 All comments and recommendations are referenced to the detailed drawings and the locations have been detailed relating to the plans supplied with the audit brief, Appendix B.

2 ITEMS RAISED BY PREVIOUS AUDITS

2.1 No previous safety audits were submitted for assessment.

3 ITEMS RAISED AT THE STAGE 1 AUDIT

3.1 General

3.1.1 No comment.

3.2 Local Alignment

3.2.1 No comment.

3.3 Junctions

3.3.1 PROBLEM

Location: Proposed egress.

Summary: Insufficient gap acceptance could lead to side impact collisions.

The proposed egress is located closed to the signalised junction with Park View Road and Crook Log, where queueing was observed in the northbound lanes. It is likely that during peak periods traffic may have difficulty turning right when leaving the care facility. In peak periods, there is concern that traffic from the care facility may not have enough gap acceptance to undertake the right turn manoeuvre, which could lead to side impact collisions.

RECOMMENDATION

It is recommended that a Keep Clear marking, to diagram 1026, should be installed in the northbound lanes at the egress.

3.4 Non-Motorised User (NMU) Provision

3.4.1 No comment.

3.5 Road Signs, Carriageway Markings and Lighting

3.5.1 No comment.

4 ISSUES IDENTIFIED DURING THE ROAD SAFETY AUDIT THAT ARE OUTSIDE THE TERMS OF REFERENCE

4.1 Safety issues identified during the audit and site inspection that are outside the Terms of Reference, but which the Audit Team wishes to draw to the attention of the Client Organisation, are set out in this section. It is to be understood that, in raising these issues, the Audit Team in no way warrant that a full review of the highway environment has been undertaken beyond that necessary to undertake the Audit as commissioned.

4.2 The Audit Team had no issues to raise within this section.

5 AUDITOR TEAM STATEMENT

5.1 We certify that this audit has been carried out following the principles of GG 119.

Audit Team Leader

Bryan Shawyer
BEng (Hons), MSc, MCIHT, MSoRSA
Highways England Approved RSA Certificate of Competency
M & S Traffic Ltd
Aeolus House
32 Hamelin Road
Gillingham
Kent ME7 3EX

Signed: 

Date: 04/01/2021

Audit Team Member

Martin Morris
PGD, MCIHT, MSoRSA
Highways England Approved RSA Certificate of Competency
M & S Traffic Ltd
Aeolus House
32 Hamelin Road
Gillingham
Kent ME7 3EX

Signed: 

Date: 04/01/2021

APPENDIX A

List of Drawings and other information submitted for auditing:

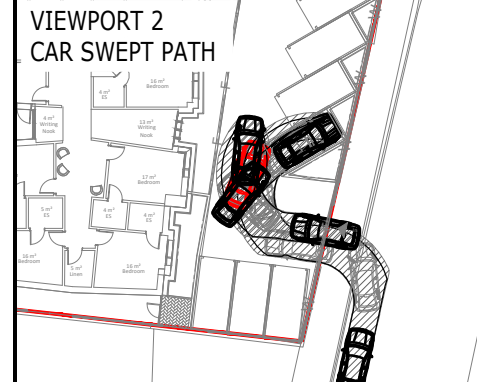
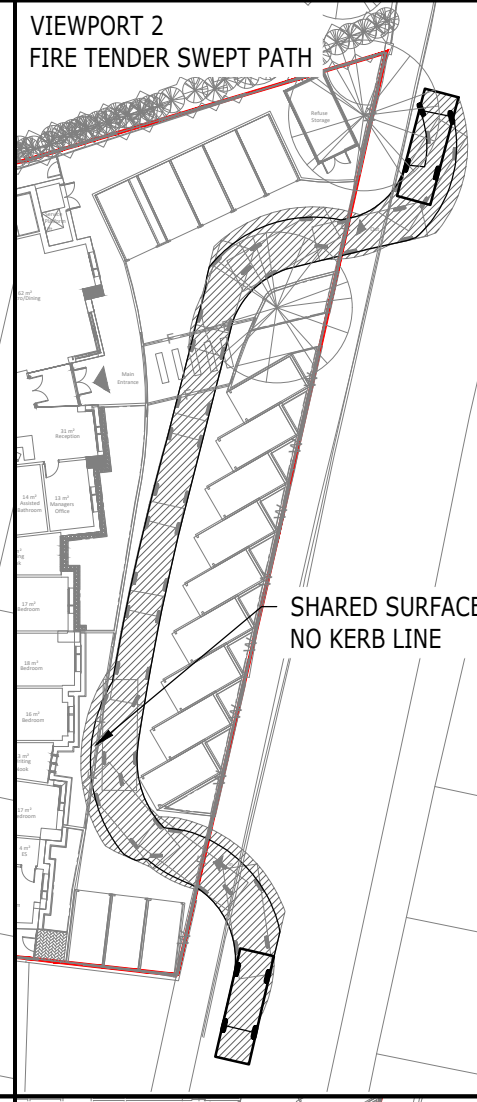
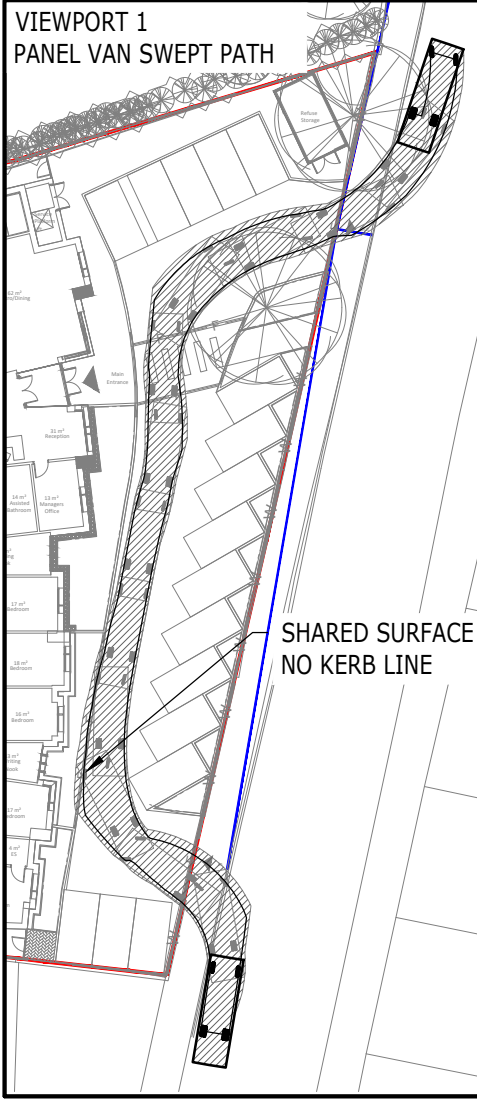
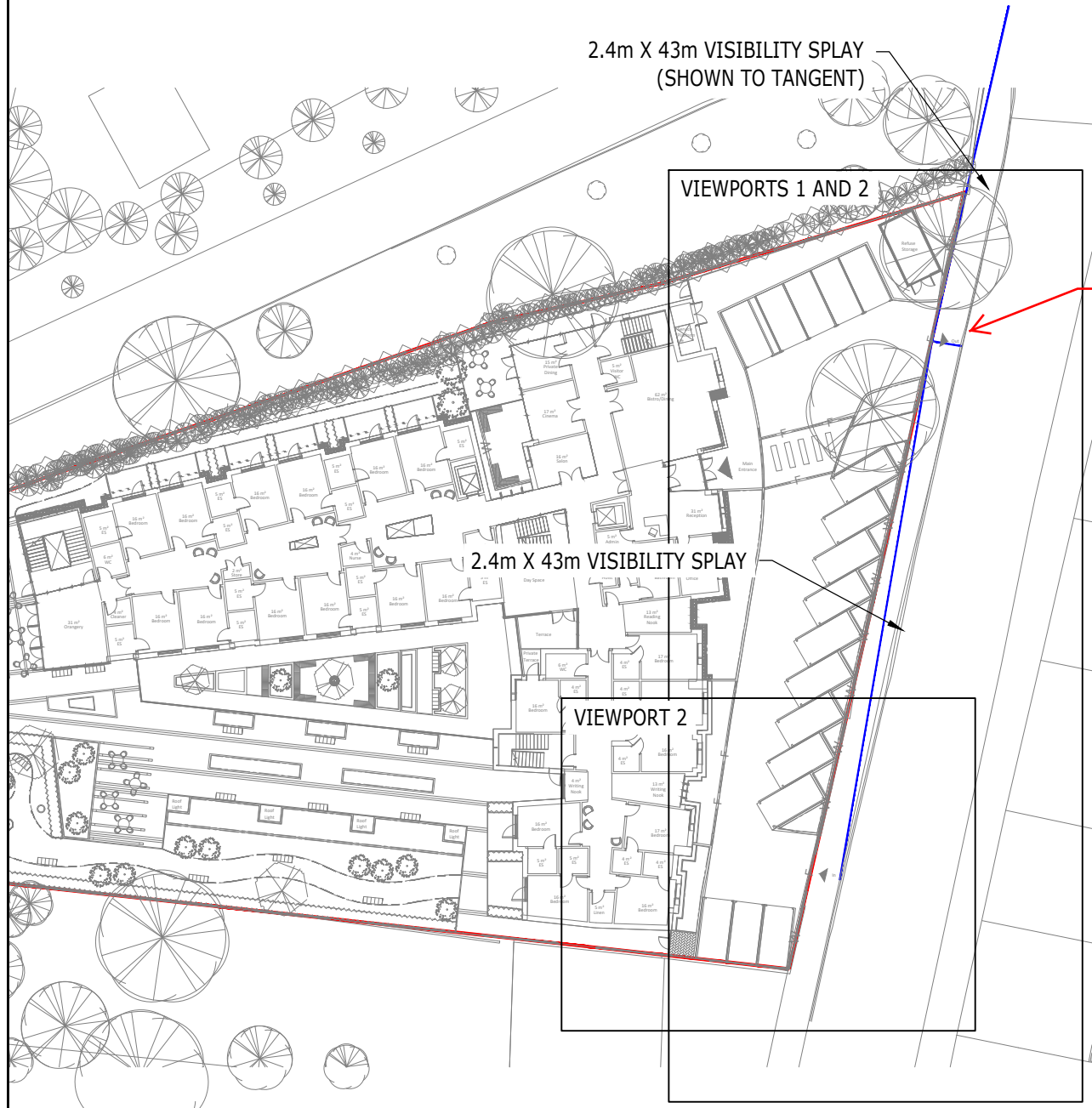
Drawing Number	Title
190320-001 A	Visibility & Tracking Plan
12395_TG_P_100	Landscape General Arrangement Plan

Supporting documentation:

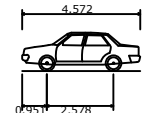
- Transport Statement, Ardent Consulting Engineers, September 2019.
- Personal Injury Collision (PIC) data for the period 1st July 2015 and 30th June 2020.

APPENDIX B

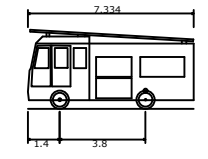
Plan attached showing the locations of the problems identified as part of this audit (location numbers refer to paragraph numbers in the report).



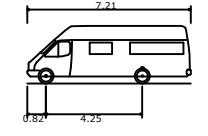
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Client
CAREBASE

Project Title:
DANSON ROAD, BEXLEYHEATH

Drawing Title:
VISIBILITY & TRACKING PLAN

A3 Scale	Date	Designed by
1:500	14.08.19	AA
Drawn by	Checked by	Approved by
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190320-001	B	

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