



Rev	Description	Drn	Chk	App	Date
1	Issue for Comment				14.03.22
2	Issue for Approval				14.03.22
3	Final Issue				14.03.22

**ARDENT** CONSULTING ENGINEERS

Third Floor  
The Helix Building  
52-56 Leadenhall Street  
London  
EC3M 5JE  
Tel: 020 7680 4088  
E-mail: enquiries@ardent-ce.co.uk

Client:  
**COUNTRYSIDE PROPERTIES (UK) LIMITED**

Project Title:  
**LAND SOUTH OF HENHAM ROAD, ELSENHAM**

Drawing Title:  
**LOCAL HIGHWAY PLAN**

AO Scale: 1:4000 Date: 14.03.22 Designed by: BT  
 Drawn by: BT Checked by: FM Approved by: IW  
 Drawing Number: 2008170-015 Rev: 1

Reproduced from Ordnance Survey data with the permission of the Controller of Her Majesty's Stationery Office. Ordnance Survey Copyright Reserved. License No. 100045626





Reproduced from Ordnance Survey data with the permission of the Controller of Her Majesty's Stationery Office. Crown Copyright Reserved. Licence No. 10004568.

Rev	Description	Dim	Chk	App	Date
1	Issue for tender				14.03.22

**ARDENT** CONSULTING ENGINEERS  
 Third Floor  
 The Helmark Building  
 52-56 Leadenhall Street  
 London  
 EC3M 5JE  
 Tel: 020 7680 4088  
 E-mail: enquiries@ardent-ce.co.uk

Client: **COUNTRYSIDE PROPERTIES (UK) LIMITED**

Project Title: **LAND SOUTH OF HENHAM ROAD, ELSENHAM**

Drawing Title: **STRATEGIC HIGHWAY NETWORK**

AO Scale: 1:12000	Date: 14.03.22	Designed by: BT
Drawn by: BT	Checked by: FM	Approved by: IW
Drawing Number: 2008170-016		



## **Appendix B**

## QS416EW - Car or van availability

ONS Crown Copyright Reserved [from Nomis on 10 March 2022]

population	All households; All cars or vans
units	Households
area type	2011 super output areas - middle layer
area name	E02004595 : Uttlesford 005
rural urban	Total

<b>Cars</b>	<b>2011</b>	
All categories: Car or van availa	4,711	
No cars or vans in household	366	0
1 car or van in household	1,672	1672
2 cars or vans in household	1,905	3810
3 cars or vans in household	539	1617
4 or more cars or vans in house	229	916
		8015

In order to protect against disclosure of personal information, records have been swapped between different geographic areas. Some counts will be affected, particularly small counts at the lowest geographies.



## QS701EW - Method of travel to work

ONS Crown Copyright Reserved [from Nomis on 10 March 2022]

population	All usual residents aged 16 to 74
units	Persons
area type	2011 super output areas - middle layer
area name	E02004595 : Uttlesford 005
rural urban	Total

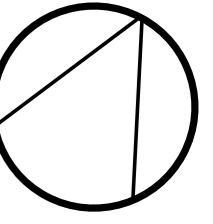
<b>Method of Travel to Work</b>	<b>2011</b>	
All categories: Method of travel	8,857	
Underground, metro, light rail, tr	34	1%
Train	882	15%
Bus, minibus or coach	74	1%
Taxi	16	0%
Motorcycle, scooter or moped	37	1%
Driving a car or van	4,150	71%
Passenger in a car or van	244	4%
Bicycle	55	1%
On foot	302	5%
Other method of travel to work	32	1%
	5,826	

In order to protect against disclosure of personal information, records have been swapped between different geographic areas. Some counts will be affected, particularly small counts at the lowest geographies.



## **Appendix C**





**KEY**

	SITE BOUNDARY		PROPOSED BUILDINGS
	LISTED BUILDINGS		LANDMARKS
	PUBLIC FOOTPATH		KEY VIEWS
	EXISTING TREES		PROPOSED TREES

**DAP** HENHAM ROAD  
 ILLUSTRATIVE LAYOUT PLAN  
 LAND SOUTH OF HENHAM ROAD  
 ELSENHAM  
 BISHOPS STORTFORD, CM22 6DN  
 COUNTRYSIDE PARTNERSHIPS  
 07.04.2022 1:50@A1 PROJECT 1669

**303.03**



## **Appendix D**



**COUNTRYSIDE PROPERTIES LTD**

**LAND SOUTH OF HENHAM ROAD, ELSENHAM**

**DESIGNER'S RESPONSE – STAGE 1 ROAD SAFETY AUDIT**

**REPORT REF NO. 2008170-01**

**PROJECT NO. 2008170**

**MARCH 2022**



## **1.0 INTRODUCTION**

- 1.1 Ardent Consulting Engineers (ACE) has been appointed by Countryside Properties Ltd to support the proposed residential development of Land South of Henham Road, Elsenham, Essex.
- 1.2 The proposals under consideration are shown on ACE **drawing nos:**
- 2008170-001A
  - 2008170-004
- 1.3 This report addresses matters raised in the Stage I Road Safety Audit (RSA) undertaken by M&S Traffic Ltd dated 22<sup>ND</sup> March 2021.



**APPENDICES**

**APPENDIX A**

**M&S Stage 1 Road Safety Audit**

**DRAWINGS**

**2008170-001B**

**Proposed Access Arrangements**

**2008170-004A**

**Proposed Pedestrian Connectivity**

<b>Rev</b>	<b>Issue Purpose</b>	<b>Author</b>	<b>Checked</b>	<b>Approved</b>	<b>Date</b>
-	Planning	DV	FM	IW	01.03.22



**2.0 ROAD SAFETY AUDIT**

Audit Item No.	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative Measures (describe)	Alternative measures accepted by Audit Team (yes/no)
<b>3.</b>	<b>Items raised at the Stage 1 Audit</b>			
3.4.1	Yes	Yes	An uncontrolled crossing point across the junction bellmouth has been shown on <b>ACE Drawing 2008170-008A (previously 2008170-001A)</b> .	
3.4.2	Yes	Yes	It has been noted on <b>ACE Drawing 2008170-032 (previously 2008170-004)</b> 'Hedgerow / Vegetation within visibility splays to be trimmed back / maintained'.	
3.4.3	Yes	Yes	It has been noted on <b>ACE Drawing 2008170-032 (previously 2008170-004)</b> 'the gradient should not exceed 1 in 12, where a 1 in 20 gradient is preferred. This can be assessed for Stage 2 RSA.	



Signed: .....  ..... Design Team Leader

Date: 1<sup>st</sup> March 2022

Signed: ..... Audit Team Leader

Date: 1<sup>st</sup> April 2022

**PLEASE COMPLETE AND RETURN TO SAFETY AUDIT TEAM**





**M & S Traffic**

## **Road Safety Audit Stage 1**

### **Proposed Access Arrangements**

**Henham Road**

**Elsenham**

**Essex**

**Date: 23<sup>rd</sup> March 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.

<b>Report Title:</b>	Land South of Henham Road, Elsenham Road Safety Audit Stage 1
<b>Date:</b>	23 <sup>rd</sup> March 2021
<b>Document reference and revision:</b>	ARD/21/2008170/1/BS
<b>Prepared by:</b>	M & S Traffic
<b>On behalf of:</b>	Essex County Council

### Distribution

Organisation	Contact	Copies
Ardent Consulting Engineers	Ian Wharton	-
Ardent Consulting Engineers	Alex Ayres	-



## CONTENTS

Document Control Sheet	2
Contents	3
1 Introduction	4
2 Safety issues raised at previous Audits	5
3 Items raised at the Stage 1 Audit	6
4 Issues identified during the road safety audit that are outside the terms of reference	9
8 Auditors Statement	10

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 the proposed access arrangements for a residential development for 130 units off Henham Road, Elsenham, as detailed below:

- A proposed priority junction on the southeastern side of the carriageway.
- Two pedestrian crossing points across Hall Road.

The Audit was requested by the design organisation, Ardent Consulting Engineers, 1-2 Crescent Court, High Street, Billericay CM12 9AQ, on behalf of Essex County Council 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 March 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 22<sup>nd</sup> March 2021 between 09:45 and 10:30 hours. Weather conditions at the time were fine and the road surface was dry. 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.

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 No comment.

#### **3.4 Non-Motorised User (NMU) Provision**

##### **3.4.1 PROBLEM**

**Location:** Proposed access on Henham Road.

**Summary:** Lack of pedestrian facilities could compromise pedestrian safety.

There is no pedestrian crossing point across the junction mouth, where this is likely to be a pedestrian desire line. This may present difficulties particularly for the blind, and the visually and mobility impaired pedestrians and may lead to pedestrian trips and falls.

##### **RECOMMENDATION**

It is recommended that a pedestrian crossing point including drop kerbs and tactile paving should be provided.

##### **3.4.2 PROBLEM**

**Location:** Proposed crossing points across Hall Road.

**Summary:** Insufficient pedestrian / traffic intervisibility could lead to rear end shunt or vehicle to pedestrian collisions.

Existing hedgerow on the verges on the northeastern side of the carriageway could restrict intervisibility for pedestrians crossing at the two proposed crossing points, see figure 1 overleaf. Restricted visibility could lead to rear end shunts, or vehicle to pedestrian collisions.





Figure 1: Existing hedgerow could restrict intervisibility.

### **RECOMMENDATION**

It is recommended that the intervisibility splays should not be obstructed, where the hedgerow may need to be realigned.

### **3.4.3 PROBLEM**

**Location:** Proposed pedestrian crossing points on Hall Road.

**Summary:** Steepness of alignment may lead to discomfort or pedestrian injury.

Two pedestrian crossing points are proposed on Hall Road; however, there is a significant level difference between the existing ground level and Hall Road, where the gradient of the footway has not been provided for assessment, see figure 2 overleaf. The steepness of the section of footway may give rise to considerable pedestrian discomfort for pedestrians, particularly the mobility impaired. Further, for wheelchair users the steep slope may lead to excessive speeds on the approach to the crossing point, which may lead to entering the carriageway and collisions with vehicles. These issues are likely to be exacerbated in icy conditions.





Figure 2: Significant height difference between ground level and Hall Road.

### **RECOMMENDATION**

It is recommended that the gradient should not exceed 1 in 12, where a 1 in 20 gradient is preferred.

### **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.



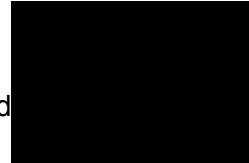
## 5 AUDITOR TEAM STATEMENT

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

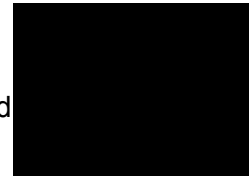


Date: 23/03/2021

### 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: 23/03/2021



**APPENDIX A**

List of Drawings and other information submitted for auditing:

<b>Drawing Number</b>	<b>Title</b>
2008170-001 A	Henham Road, Proposed Access Arrangements
2008170-004	Proposed Pedestrian Connectivity

**Supporting documentation:**

- N/A



## **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).