

Road Safety Audit Report

**Incorporating
Stage 1 Completion of Preliminary Design.**

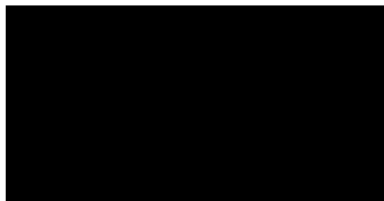


Proposed Access off the A259 New Road, Rustlington

Client:
Commercial Development Projects Ltd

Client reference:
REDW-3167

Fenley Partnership
2 Blaenant
Emmer Green
READING
RG4 8PH



Report Status 2

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Prepared by	JJF	Verified by	AJB	Approved by	JJF
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document control sheet

REV	ISSUE PURPOSE	AUTHOR	CHECKED	APPROVED	DATE
1	Stage 1 Road Safety Audit included	JJF	AJB	JJF	8 th April 2015
2	Stage 1 Designer's Response Incorporated	PM	AJB	JJF	21 st May 2015

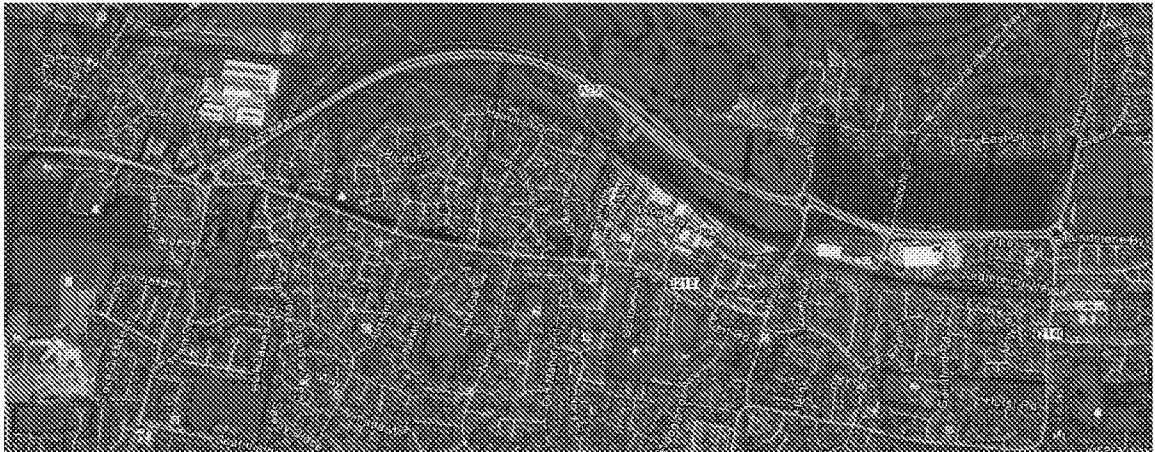
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Appendices:

Appendix A	Stage 1 Road Safety Audit
A1	Photos from Site Visit Footage
A2	Drawings provided with the Audit Brief
A3	Designer's Response Items

1.1 The Fenley partnership has been appointed by Commercial Development Projects Ltd to undertake this Stage 1 Road Safety Audit of an improved junction of Brook Lane with the A259 New Road at Rustlington. The improvements are to facilitate a proposed development of a retail unit and public house/restaurant.

[illegible]

1.2 The A259 in proximity of the site is a dual carriageway and is derestricted, therefore subject to a 70mph speed limit. Brook Lane is taken off the south side of the A259 and is therefore only

accessible to westbound traffic. Traffic survey data has been provided with the Audit Brief that identifies that the 85th percentile speed of westbound traffic equates to 67mph.

- 1.3 This Road Safety Audit is an assessment of the proposed access improvement and proposed roundabout only and does not include the on-site access road or parking/servicing arrangement.
- 1.4 The site visit associated with this Stage 1 Road Safety Audit commenced during day light at 10am on Monday 6th April 2015. Weather conditions during the site visit were sunny with light wind, the road surface was dry and visibility was clear. Photographs from the site visit are attached at the relevant **Appendix 1**.
- 1.5 No pedestrians were observed during the visit but two cyclists as well as motorised vehicular traffic was observed travelling on the A259 in proximity of the site, speeds were not recorded.
- 1.6 The site visit allowed the team to assess the existing infrastructure in the vicinity of the site and put the proposals in context with conditions on the local highway network.

Collision History

- 1.7 Personal Injury Accident data has been provided with the Audit Brief. The data covers the 5 year period to the 30th November 2014 and indicates no history or pattern of personal injury road traffic accidents occurring in proximity of the site that were attended to by the local constabulary.

Scheme Details

- 1.8 The proposals subject to this Stage 1 Road Safety Audit include the improvement of an existing access, known as Brook Lane, off the A259, that consists of a deceleration and acceleration lane that accords with National Standards for trunk roads as detailed within the Design Manual for Roads and Bridges.
- 1.9 The 110 metre deceleration lane incorporates a 30 metre direct taper and is followed by an inside corner radius of 20 metres. The carriageway width around the corner equates to 6.5 metres with hatching around the outside of the bend restricting the running lane to approximately 4.5 metres.
- 1.10 Following the corner, the access lane meets a 20 metre ICD mini-roundabout that allows access to the proposed access carriageway, Brook Lane, and a stub arm to allow for access to future development land to the west.
- 1.11 The link from the mini-roundabout to the acceleration lane is 5.5 metres wide and follows a 30 metre inside corner radius. Following a 40 metre nose, the 126 metre acceleration lane tapers back to the existing southern channel line of the A259.

- 1.12 The deceleration and acceleration lanes are provided by widening the existing carriageway and require the relocation of a headwall associated with a brook that passes under the A259 .
- 1.13 It is understood that the proposed Brook Lane improvement and mini-roundabout is to facilitate safe access and egress to/from a proposed development consisting of an M&S Simply Food retail unit and a pub/restaurant.

Scheme Documents

- 1.14 Whilst the following Table 1.1 details the drawings that have been examined as part of this audit, copies are attached at the relevant **Appendix 2**.

Table 1.1 – Drawings

<u>Audit Stage</u>	<u>Drawing Number</u>	<u>Rev</u>	<u>Title</u>
Stage 1	REDW-3167-110	-	Highway Access Plan

- 1.15 Furthermore, the following Table 1.2 identifies the documents that were supplied with the Audit Brief.

Table 1.2 – Documents

<u>Audit Stage</u>	<u>Document No.</u>	<u>Rev</u>	<u>Title</u>
Stage 1	PMcL/3167/d1	Feb15	Transport assessment

- 1.16 With regard to compliance of the scheme with National Standards, the audit team has been made aware of the following departures identified within the following Table 1.3.

Table 1.3 – Departures from standard

<u>Audit Stage</u>	<u>Departure Reference No.</u>	<u>Description</u>
Stage 1	-	No departures notified at this stage

Terms of Reference

- 1.17 The Terms of Reference of the audit are as described in the Department for Transport document HD19/15, entitled 'Road Safety Audit', which is contained in the Design Manual for Roads and Bridges. The audit also takes account of the Chartered Institute of Highways and Transportation publication "Road Safety Audit" published in October 2008 and has been undertaken in accordance with the West Sussex County Council Road Safety Audit Policy, each member of the team holds a Certificate of Competence in accordance with European Legislation.

1.18 This audit has examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance of the design to any other criteria. However, to clearly explain a safety problem or the recommendation to resolve a problem, the Audit Team may, in some instances, have referred to a design standard or document without touching on technical audit.

1.19 Items identified as **PROBLEM** are considered to be worthy of immediate attention in respect of safety considerations of the proposals. Items that are not a direct result of the proposals or could be outside the scope of the audit to include existing highway defects in proximity are not listed within this audit in accordance with HD19/15.

Main Parties to the Audit

1.20 In accordance with the above documents, this audit has been carried out by an 'Audit Team' consisting of the following members:

Audit Team Leader

Jamie Fenning BSc (Hons), MIHE, CofC
Highway / Road Safety Engineer

Audit Team Member

Angharad Bradley BEng (Hons), MCIHT, MSoRSA, CofC
Road Safety Engineer

General Information

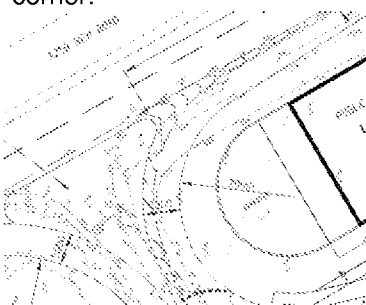
1.21 The following **Section 2.0** identifies any previous Road Safety Audits that have been undertaken prior to this document being prepared by ourselves and summarises the items raised. The safety implications of the current proposals are discussed within the relevant paragraphs of **Section 3.0** along with a Response, prepared by the Designer, to the items raised.

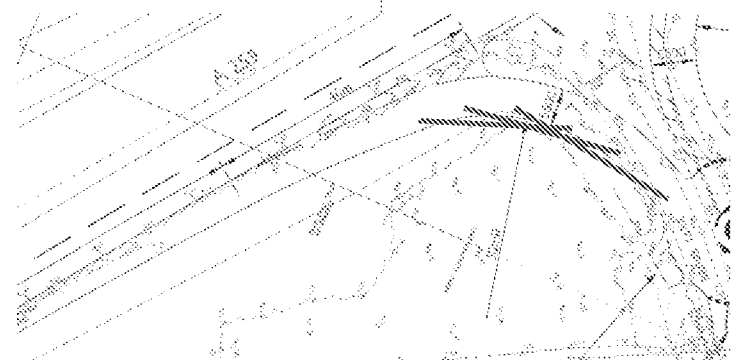
1.22 Any new or revised plans associated with the Designer's Response are included at the relevant **Appendix 3** along with any further information that the designer considers appropriate to support their response if any is provided. A signature of the professional who prepared the Designer's Response is included within the Audit Team Statement.

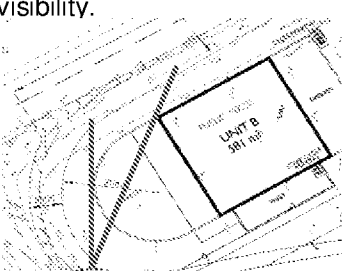
2.0 ITEMS RAISED IN PREVIOUS ROAD SAFETY AUDIT.

Audit Item No.	Audit Team Observation	Audit Team Recommendation	Designer / Scheme Response
.1	GENERAL		
	The Audit Team has not been made aware of any previous Road Safety Audits associated with the proposals		
.2	LOCAL ALIGNMENT		
	The Audit Team has not been made aware of any previous Road Safety Audits associated with the proposals		
.3	JUNCTIONS		
	The Audit Team has not been made aware of any previous Road Safety Audits associated with the proposals		
.4	NON-MOTORISED USER PROVISION		
	The Audit Team has not been made aware of any previous Road Safety Audits associated with the proposals		
.5	ROAD SIGNS, CARRIAGEWAY MARKINGS, LIGHTING AND DRAINAGE		
	The Audit Team has not been made aware of any previous Road Safety Audits associated with the proposals		

3.0 ITEMS RAISED IN THIS STAGE 1 ROAD SAFETY AUDIT

Audit Item No.	Audit Team Observation	Audit Team Recommendation	Designer / Scheme Response
A.1	GENERAL		
A.1.1	<i>The proposals to improve an existing access off the A259, New Road to facilitate the safe access and egress to / from a proposed development consisting of a food retail store and pub/restaurant at this location does not raise any road safety concerns in general at this stage, provided that the items raised within this audit in the following specific sections are addressed appropriately. The access road associated with the development is of sufficient length to allow for the free flow of vehicles off the A259 without the need to stop to allow vehicles to access and egress parking spaces.</i>		
A.2	LOCAL ALIGNMENT		
A.2.1	PROBLEM Tight entry corner radius Accident Type <i>Loss of Control</i> Location Entry radius from deceleration lane <i>The proposed deceleration lane is provided for vehicles to decelerate from the derestricted A259. Vehicles could therefore be travelling in excess of the speed required to safely manoeuvre around the 20 metre corner radius. This could result in vehicles losing control and striking the island.</i>	The appropriate chevron and warning signs should be installed in clear view of vehicles utilising the deceleration lane to ensure that drivers are aware of the corner. 	Chevron sharp deviation of route signs (Diag. 515) have been included on the central approach island as shown on Drg.No. REDW-3167-110-Rev A

Audit Item No.	Audit Team Observation	Audit Team Recommendation	Designer / Scheme Response
A.2.2	PROBLEM Restricted visibility around the exit corner radius Accident Type <i>Shunt</i> Location Inside of exit radius to the acceleration lane <i>Forward visibility vehicles accelerating from the roundabout to the acceleration lane to vehicles utilising the acceleration lane, is restricted by vegetation. Therefore drivers will not have a clear view of preceding vehicles. This could result in shunt type accidents should a driver hesitate and stop along the acceleration lane.</i>	Vegetation should be cleared to the appropriate level to allow for the clear forward visibility.	Vegetation will be cleared to a distance of 3m from the kerb line of the site at the radius of the site egress. The verge area adjacent to the carriageway will be offered for adoption as Public Highway
			

Audit Item No.	Audit Team Observation	Audit Team Recommendation	Designer / Scheme Response
A.3	JUNCTIONS		
A.3.1	PROBLEM Forward visibility to the roundabout is restricted Accident Type <i>Shunt type accidents</i> Location Roundabout Forward visibility to the give-way road marking at the roundabout from the deceleration lane is restricted to approximately 50 metres based on the building line of the adjacent pub/restaurant. This could be further restricted should a fence be erected around the associated grounds and could result in shunt type accidents where vehicles are stopped at the give-way.	Warning signs should be installed to ensure that approaching vehicles are aware of the presence of the roundabout and the pub/restaurant should be restricted from erecting a fence where it blocks forward visibility. 	Forward visibility to the site roundabout is restricted due to a boundary wall proposed around the public house garden area. The achievable forward visibility envelope is shown on Drg.No. REDW-REDW-3167-110-Rev A. An advanced warning sign of roundabout ahead (Diag. 510) and REDUCE SPEED NOW supplementary sign (Diag. 511) and SLOW road marking is proposed in advance of the roundabout which will mitigate the reduced forward visibility to the roundabout give way.
A.4	NON-MOTORISED USER PROVISION		
A.4.1	<i>The proposals make a provision for pedestrians to travel between Brook Lane and the proposed development utilising a crossing facility and footway located along the private access road as well as a footway linking to Brook Lane. This allows for safe non-motorised user access from the area to the south of the railway line utilising the associated underpass. Therefore no road safety concerns have been raised at this stage regarding non-motorised users.</i>		
A.5	ROAD SIGNS, CARRIAGEWAY MARKINGS, LIGHTING AND DRAINAGE		
A.5.1	<i>No road safety concerns are raised at this stage regarding road signs, carriageway markings, lighting or drainage provided that the items raised within this audit are addressed appropriately.</i>		

A.6 STAGE 1 ROAD SAFETY AUDIT TEAM STATEMENT

A.6.1 We certify that we have examined the relevant drawing and documents listed at Section 1.0 in respect of road safety. The examination of the proposed works has been carried out with the sole purpose of identifying any features of the design that could be removed or modified in order to improve the safety of the scheme or any adjacent highway affected by it. The issues identified have been noted in this report together with associated safety improvement recommendations, where possible, which should be studied for implementation. This Stage 1 road safety audit has been carried out in accordance with HD19/15 as well as the "West Sussex County Council - Safety Audit Adopted Policy".

A.6.2 No one on the Audit Team has been involved with the design of the scheme. The Audit Team consists of the following

Audit Team Leader

Name: Jamie Fenning
BSc (Hons), MIHE, CoIC
Position: Highway / Road Safety Engineer
Address: 2 Blaenant
Emmer Green
Reading
RG4 8PH

Tel:

e-mail:

Signed:

Date: 21st May 2015

Audit Team Member

Name: Angharad Bradley
BEng (Hons), MCIHT, MSoRSA CoIC
Position: Road Safety Engineer

Signed:

Date: 21st May 2015

Designer's Response Prepared By

Name: Paul McLaughlin
Position and company: Director
Redwood Partnership Transportation Ltd

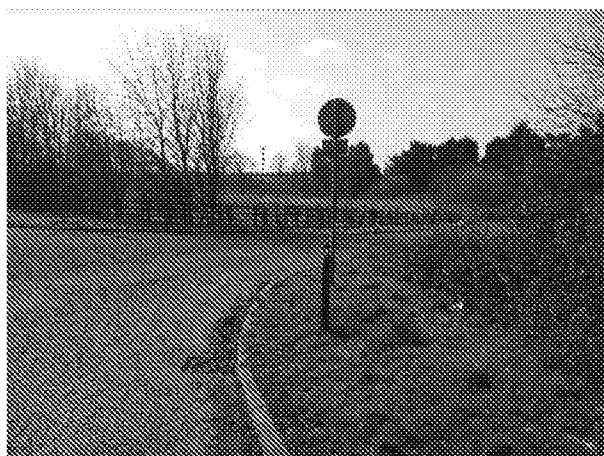
Signed:

Date: 21st May 2015

Appendix A1

Photographs from site visit





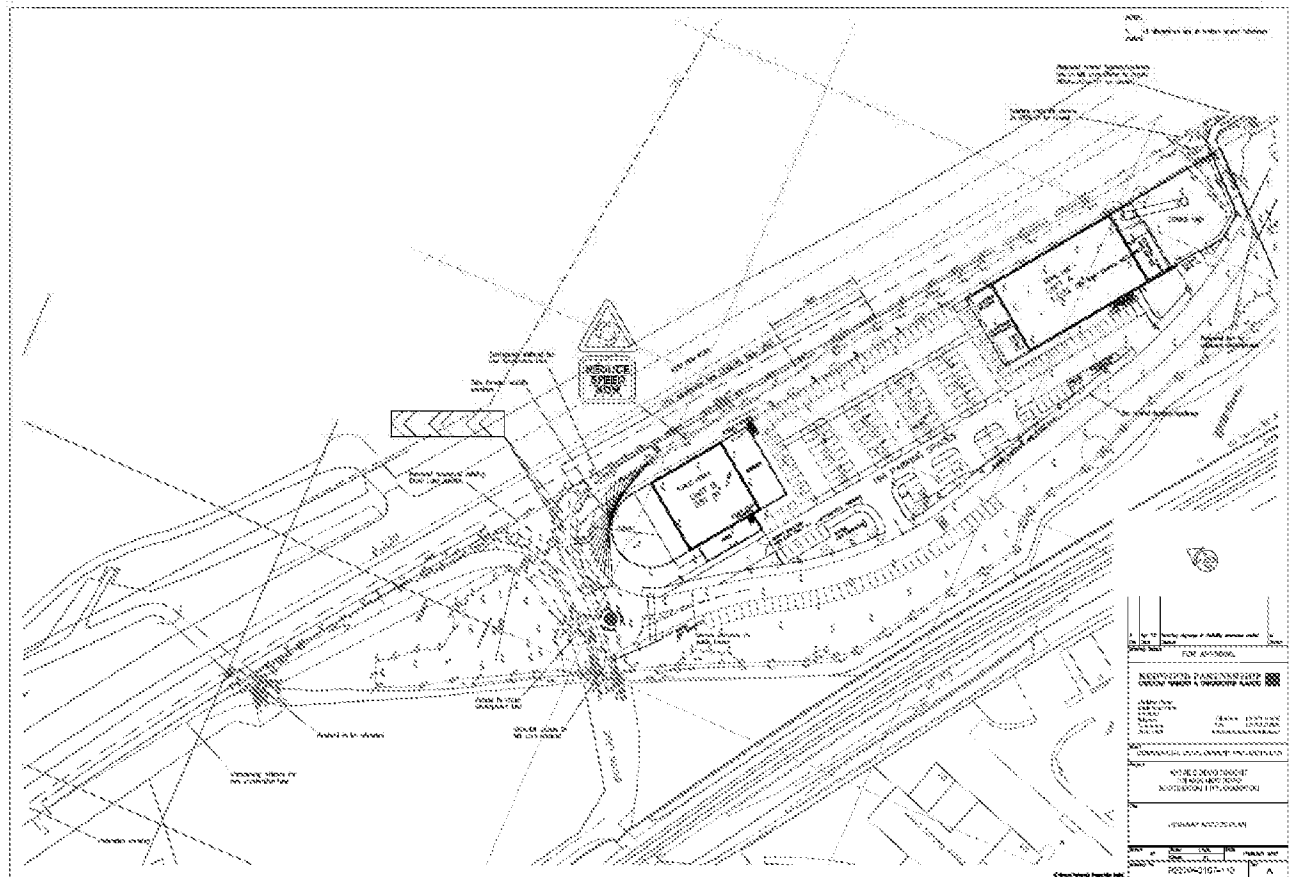
Appendix A2

Drawings provided with the Audit Brief



Appendix A3

Drawings and Documents associated with the Designer's Response



fenley

NOTES
1. All dimensions are in metres unless otherwise stated.

Proposed shared footway/cycleway link to Mill Lane (Refer to Drg.No. REDW-3167-111 for details)

Existing vehicular access to A259 to be closed

Potential link to adjacent development

3m shared footway/cycleway

Co Const, ED & Bore



A	Apr 15	Warning signage & visibility envelope added	pl
Rev	Date	Details	Drawn
Drawing Status			
FOR APPROVAL			
REDWOOD PARTNERSHIP CONSULTING ENGINEERS & TRANSPORTATION PLANNERS			
Maritime House Basin Road North Portslade Brighton East Sussex BN41 1WR			
		Telephone : 01273 414515 Fax : 01273 376824 www.redwoodpartnership.co.uk	
Client COMMERCIAL DEVELOPMENT PROJECTS LTD			
Project RETAILS DEVELOPMENT ON A259 NEW ROAD RUSTINGTON, LITTLEHAMPTON			
Title HIGHWAY ACCESS PLAN			
Drawn	PL	Scale 1:500	Date FEBRUARY 2015
Sheet	A1		
Drawing No. REDW-3167-110		Rev A	

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