



**ACORNS
PROJECTS
LIMITED**



**Cliffe Lane, Gomersal, West Yorkshire
Proposed Section 278 and 38 Highway Works
Stage 1 Road Safety Audit**

**For Sanderson Associates Consulting Engineering
Prepared by Acorns Projects Limited
Safety Traffic Project Management & Highway Engineering Consultants**

JULY 2024

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1.0	01/07/2024	N/A	N/A

Approvals

This document requires the following approvals:

Name	Title
Adriano B. Cappella	Audit Team Leader
Lisa Allen	Audit Team Member

Distribution

This document has also been distributed to:

Name	Title & Organisation
Simon Burkinshaw	Principal Engineer - Sanderson Associates
Karen Smith	Associate Director - Sanderson Associates
Will Yates	Construction Director - Quarters Life
Mark Berry	Highways Development Management - Kirklees Council

1.0 INTRODUCTION

1.1 This report results from a Stage 1 Road Safety Audit carried out on Cliffe Lane, Gomersal, West Yorkshire, Proposed Section 278 and 38 Highway Works Project, at the request of the Overseeing Organisation, i.e. the Local Highway Authority, Kirklees Council, Highway Development Management, Huddersfield Customer Service Centre, PO Box 1720, Huddersfield, West Yorkshire, HD1 9EL. The Design Organisation is Sanderson Associates Consulting Engineers, Sanderson House, Jubilee Way, Grange Moor, Huddersfield, West Yorkshire, WF4 4TD. The Third Party Organisation is Knabbs Ash Barn Limited, Skipton Road, Harrogate, North Yorkshire, HG3 2LT

1.2 The scheme proposals comprise Section 278 and 38 Highway Works and include the construction of a new priority T-junction in Cliffe Lane, Gomersal, West Yorkshire. The new priority T-junction will be constructed following the demolition of an existing dwelling at No. 271 Cliffe Lane and, the closure of the existing vehicular access at the adjacent existing residential dwelling named "Holmfield". A new access road will be constructed, which will provide access to a development comprising 87 new residential dwellings, as well as providing a new vehicular access to the existing residential dwelling named "Holmfield". Within the north eastern quadrant of the proposed residential development site, a new footpath will provide a pedestrian route into Ferrand Lane.

1.3 The Membership of the Road Safety Audit Team (who are independent of the highway scheme conception, design, construction and operation), was as follows:

Adriano B. Cappella IEng, FIHE, MCIHT, MSoRSA, HA RSA Certificate of Competency
(Audit Team Leader) Director, Acorns Projects Limited

Lisa Allen MSc, BEng (Hons), MCIHT, MSoRSA, HA RSA Certificate of Competency
(Audit Team Member) Associate Consultant, Acorns Projects Limited

1.4 The Audit took place at the Eaton Bray office of Acorns Projects Limited during June and July 2024. The Audit was undertaken in accordance with the Road Safety Audit Brief contained in the Design Organisation E-Mail to Acorns Projects Limited dated the 8th May 2024. The Road Safety Audit Brief and the Road Safety Audit Team were approved by Kirklees Council. The Audit comprised an examination of the drawings and documents provided by the Design Organisation and, are listed in Appendix A.

1.5 The drawings consisted of a copy of the site plan layout, access arrangements, swept path analysis (2 No. sheets), visibility plan and carriageway dimensions. Copies of the scheme drawings at both A3 and A4 size were provided for the Audit Team's use.

The documents consisted of a copy of the April 2024 Sanderson Associates Consulting Engineers Stage 1 Road Safety Audit Brief, the March 2024 Sanderson Associates Consulting Engineers Cliffe Lane, Gomersal, Highway Response Report, the July 2023 Sanderson Associates Consulting Engineers Transport Assessment document, and, the April 2019 Road Safety Initiatives Cliff Lane, Gomersal, Proposed Access Junction, Stage 1 Road Safety Audit Report with Appended Designers Response. Road traffic collision information, vehicular traffic flow information, pedestrian and pedal cycle information and public transport information is contained within a combination of the May 2024 Sanderson Associates Consulting Engineers Stage 1 Road Safety Audit Brief document and the July 2023 Sanderson Associates Consulting Engineers Transport Assessment document.

- 1.6** A visit to the site was undertaken between 09.30 am and 10.20 am during the morning of the 7th June 2024 by both Audit Team Members together. During the morning site visit, the weather was mild with some cloud cover and, the existing carriageway surface was dry. Vehicular traffic conditions at the time of the morning site visit were observed to be light in Cliffe Lane, with only one vehicular movement observed in Ferrand Lane. Five pedestrians and one pedal cyclist were observed during the morning site visit.
- 1.7** The terms of reference of the Audit are as described in DMRB GG 119 Road Safety Audit. The Audit Team 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 designs to any other criteria. However, to clearly explain a safety problem or the recommendation made to resolve the identified problem, the Audit Team may, on occasion, have referred to a Design Standard without touching on technical audit.
- 1.8** No Departures from Design Standards have been reported by the Design Organisation.
- 1.9** All Problems and Recommendations are referenced to the design drawings and the locations have been indicated on the A4 plan supplied for use by the Audit Team in Appendix B.
- 1.10** Issues identified and observations made during this Stage 1 Road Safety Audit and site inspection which the Terms of Reference exclude from this report, but which the Audit Team wishes to draw to the attention of the Overseeing Organisation, i.e. the Local Highway Authority, Kirklees Council, will be set out in a separate letter. These issues could include maintenance items and operational issues. The Audit Team has not identified any issues during this Stage 1 Road Safety Audit and site inspection that are considered to be outside the Terms of Reference.

2.0 ITEMS RAISED AT THIS STAGE 1 ROAD SAFETY AUDIT

2.1 LOCAL ALIGNMENT

2.1.1 No Problems identified in this category at this Stage 1 Road Safety Audit.

2.2 GENERAL

2.2.1 No Problems identified in this category at this Stage 1 Road Safety Audit.

2.3 JUNCTIONS

2.3.1 PROBLEM

Location 1 - The new priority T-junction in Cliffe Lane (Drawing Nos. 1694-101 Rev J & 152130-001 Rev A).

Summary - The swept path requirements of refuse vehicles turning, entering and exiting the new priority T-junction requires the vehicles' bodies to encroach into the opposing vehicular traffic lanes. This situation could result in a potential increased risk of offside to offside vehicular collisions occurring and head-on type vehicular collisions occurring, whereby vehicle occupants could sustain personal injury.

Detail - The scheme drawings include swept path analysis exercises for a refuse vehicle turning, entering and exiting the new priority T-junction in Cliffe Lane. It is evident from the swept path analysis exercises that in everyday operational terms, encroachment of the opposing vehicular traffic lanes will take place.

Concern arises that the swept path requirements of refuse vehicles turning, entering and exiting the new priority T-junction could lead to a potential increased risk of offside to offside vehicular collisions occurring and head-on type vehicular collisions occurring, whereby vehicle occupants could sustain personal injury.

RECOMMENDATION

It is Recommended that junction geometry improvements should be undertaken, such that the potential collision scenarios are reduced or mitigated.

If for whatever reasons the above recommendation cannot be adopted, then it is Recommended that approval for the current layout proposals should be sought and agreed with the Overseeing Organisation, i.e. the Local Highway Authority, Kirklees Council, via the DMRB GG 119 Road Safety Audit Response Report and Table F.4 Decision Log.

2.4 WALKING, CYCLING AND HORSE RIDING

2.4.1 PROBLEM

Locations 2 & 3 - The proposed pedestrian footpaths where they join Ferrand Lane (Drawing Nos. 1694-101 Rev J & 152130-003 Rev A).

Summary - Potential restrictions to intervisibility where the proposed pedestrian footpaths meet Ferrand Lane could lead to a potential increased risk of vehicular and pedestrian collisions occurring, whereby pedestrians could sustain personal injury.

Detail - The scheme drawings indicate that two new pedestrian footpaths located in the north eastern quadrant and the northern area of the proposed residential development will facilitate pedestrian access to and from Ferrand Lane.

Whilst the site visit has established the rural nature of Ferrand Lane (where only one vehicular movement was observed), there are well established field boundaries of hedgerows and trees which could impact upon the intervisibility between vehicular traffic and pedestrians emerging into Ferrand Lane from the proposed footpaths.

Concern arises that any restrictions to the intervisibility at these locations could lead to a potential increased risk of vehicular and pedestrian collisions occurring, whereby pedestrians could sustain personal injury.

RECOMMENDATION

It is Recommended that suitable and adequate intervisibility splays should be provided at both Locations, which may require the complete removal of the existing field boundaries comprising hedgerows and trees.

2.5 TRAFFIC SIGNS, CARRIAGEWAY MARKINGS AND LIGHTING

2.5.1 No Problems identified in this category at this Stage 1 Road Safety Audit.

END OF PROBLEMS IDENTIFIED AND RECOMMENDATIONS OFFERED IN THIS STAGE 1 ROAD SAFETY AUDIT

3.0 ROAD SAFETY AUDIT TEAM STATEMENT

We certify that this Road Safety Audit has been carried out in accordance with DMRB GG 119.

ROAD SAFETY AUDIT TEAM LEADER

Adriano B. Cappella IEng, FIHE, MCIHT, MSoRSA, HA RSA Certificate of Competency

Signed :

Director

Acorns Projects Limited

Safety Traffic Project Management & Highway Engineering Consultants

Redwood House

3 Eaton Park

Eaton Bray

Bedfordshire

LU6 2SP

Date : 28th August 2024

ROAD SAFETY AUDIT TEAM MEMBER

Lisa Allen MSc, BEng (Hons), MCIHT, MSoRSA, HA RSA Certificate of Competency

Signed :

Associate Consultant

Acorns Projects Limited

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Redwood House

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Date : 28th August 2024

APPENDIX A

APPENDIX A

CLIFFE LANE, GOMERSAL, WEST YORKSHIRE

PROPOSED SECTION 278 & 38 HIGHWAY WORKS

STAGE 1 ROAD SAFETY AUDIT

LIST OF SANDERSON ASSOCIATES CONSULTING ENGINEERS DRAWING SUBMITTED FOR AUDITING

DRAWING NO.	TITLE
1694-101 Rev J	Site Plan Layout
152130-001 Rev A	Access Arrangement
152130-002 Rev A	Swept Path Analysis
152130-003 Rev A	Visibility Plan
152130-004	Carriageway Dimensions
152130-005	Swept Path Analysis Shared Surfaces

LIST OF DOCUMENTS REVIEWED AT THIS STAGE 1 ROAD SAFETY AUDIT

Sanderson Associates Consulting Engineers - Land at Rear of 271 Cliffe Lane, Gomersal, Cleckheaton, BD19 4SB - Stage 1 Road Safety Audit Brief - April 2024
Sanderson Associates Consulting Engineers - Cliffe Lane, Gomersal - Highway Response Report - March 2024
Sanderson Associates Consulting Engineers - Cliffe Lane, Gomersal - Transport Assessment - July 2023
Road Safety Initiatives LLP - Cliff Lane, Gomersal, Proposed Access Junction - Stage 1 Road Safety Audit - April 2019 (with Appended Designers Response by Bryan G Hall Consulting Civil & Transport Planning Engineers - June 2019)

APPENDIX B

