Extract From Appendix C of GG119 - Road Safety Audit (RSA) Brief Template

Table C.1 Project summary

Date:	01.05.2024
Document reference:	152130-004-01
Prepared by:	Sanderson Associates Consulting Engineers
On behalf of:	Knabbs Ash Barn Ltd
AUTHORSATION SHEET	
Project:	Kirklees Council Planning application 2023/92966 Land to the rear of, 271, Cliffe Lane, Gomersal, Cleckheaton, BD19 4SB for Demolition of existing dwelling and erection of 87 dwellings including formation of a new access from Cliffe Lane, landscaping, public open space and all associated infrastructure and engineering works
Report title:	Stage 1 Road Safety Audit Brief
PREPARED BY:	
Name:	Simon Burkinshaw
Signed:	
Organisation:	Sanderson Associates Consulting Engineers
Date:	17.04.2024
I APPROVE THE RSA BREIF AND INSTRUCT THE RSA TO TAKE PLACE ON BEHALF OF THE OVERSEEING ORGANISATION:	
Name:	
Signed:	
Organisation:	Kirklees Council
Date:	

Table C.2 General Details

General Details				
Highway Scheme Name and Road Number:				Land to the rear of, 271, Cliffe Lane, Gomersal, Cleckheaton, BD19 4SB
Type of Scheme:	Demolition of existing dwelling and erection of 87 dwellings including formation of a new access from Cliffe Lane, landscaping, public open space and all associated infrastructure and engineering works			
RSA Stage tick as appropriate.	1 ✓	2	3	4
Overseeing Organisation Details		**Design organisation Details**		
Mark Berry Highways Development Management Kirklees Council mark.berry@kirklees.gov.uk 01484 221000 (Ext 74133)		Sanderson Associates Consulting Engineers Sanderson House Jubilee Way Grange Moor Huddersfield		
Police contact details		**Maintaining agent contact details**		
Not required		Kirklees Council Mark Berry mark.berry@kirklees.gov.uk 01484 221000 (Ext 74133)		

RSA team membership
Adriano B. Cappella IEng, FIHE, MCIHT, MSoRSA, HA RSA Certificate of Competency; Audit Team Leader Lisa Allen MSc, BEng (Hons), MCIHT, MSoRSA, HA RSA Certificate of Competency; Audit Team Member
Terms of reference
GG119 Road Safety Audit

Table C.3 Scheme Details

Scheme Description/Objective
General
The development proposals comprise the demolition of existing dwelling and erection of 87 dwellings including formation of a new access from Cliffe Lane, landscaping, public open space and all associated infrastructure and engineering works. The current development proposals follows a previous outline application (ref: 2019/90902) for the erection of 98 dwellings which was refused by the local planning authority, Kirklees Council, and subsequently dismissed at Appeal. It should be noted that the Council supported the proposal, subject to a planning obligation to secure affordable housing and contributions towards various facilities and services. However, in the absence of the required signatures to the S106 Agreement, on 9 July 2021 the Council formally resolved to refuse outline planning permission. The access proposed as part of previous application 2019/90902 on Cliffe Lane was agreed by Kirklees Highways. A stage 1 Road Safety Audit was completed by Road Safety Initiatives RSI-MM-0918-003 Issue 1.1 dated 24.04.2019. A copy of the Audit is included with this brief together with the response report prepared by Bryan G Hall Consulting Civil & Transport Planning Engineers dated 07.06.2019. The current access proposal on Cliffe Lane is the same that was previously agreed with Kirklees Highways and is shown on drawing 152130-001 revision A. The objective of this Stage 1 Road Safety Audit is to examine the road safety implications of the Section 278 works for the new access onto Cliffe Lane and Ferrand Lane and the Section 38 works for the new internal roads which will be offered to Kirklees Council for adoption.

The Road Safety Audit boundary is within the green line on the plan extract at Figure 1.

Figure 1 – Stage 1 Road Safety Audit Boundary (Green Line)



A Transport Assessment Report reference 152130-001-02 dated 08.07.2023 was prepared by Sanderson Associates in support of the planning application. A planning application consultation response has been received from Kirklees Council Highways Development Management reference 8-9SW-10 dated 25.01.2024. A Highway Response Report reference 152130-003-01 dated 28.03.2024 was prepared by Sanderson Associates. Drawings included within the reports include the following, which are provided for the purpose of this Road Safety Audit:

Drawing 152130-001A Access Arrangement
Drawing 152130-002A Swept Path Analysis
Drawing 152130-003A Visibility Plan
Drawing 152130-004 Carriageway Dimensions
Drawing 152130-005 Swept Path Analysis Shared Surfaces

Pedestrian Access

Access to the site for pedestrians will be provided via 2m wide footways to both sides of the proposed vehicular access junction, which will link to the existing footway provision on the northern side of Cliffe Lane.

A secondary pedestrian access is to be provided via a link to Ferrand Lane at the north-eastern corner of the site, as shown on the proposed site layout plan.

Cyclist Access

Cyclist access into the development will be from Cliffe Lane.

Vehicle Access

Vehicle access to the site is proposed via a new priority junction onto Cliffe Lane, as per the agreed junction design put forward as part of the 2019 application. The access road will feature a 6.0m wide carriageway with 6m junction radii and 2.0m wide footways on both sides tying in with the existing footway provisions on the north side of Cliffe Lane.

The proposed new access will replace the existing vehicular dropped crossing access to Holmfield, with a new access to Holmfield to be provided from within the site via an existing gate, as illustrated on the proposed site layout plan.

The access achieves visibility splays of 2.4m x 53m to the east and 2.4m x 52m to the west, measured 0.5m into the carriageway to represent the nearside vehicle track, as per guidance contained within Manual for Streets 2. The visibility provisions exceed the recommended minimum stopping sight distances (SSD) based on the recorded 85th percentile speed off approaching vehicles (32mph) which require a SSD of 47m.

In order to achieve the above visibility splays it is necessary to construct a minor build-out of the northern edge of carriageway to allow the advancement of the access give-way line. Subsequently, so that a 6m carriageway width can be maintained along Cliffe Lane through the site access junction, a minor realignment of the southern edge of carriageway is also required. The proposed access arrangement and local highway improvements are detailed on Drawing 152130-001revision A.

All of the land required to construct the access and achieve the required visibility splays is either within the applicant's control or public highway.

Parking

Parking within the development is to be provided in line with the Council's Highway Design Guide (adopted November 2019) which states the following in relation to residential parking standards:

"Kirklees Council has not set local parking standards for residential and non-residential development. However, as an initial point of reference for residential developments (unless otherwise evidenced using the criteria in Para. 5.1), it is considered that new:

- *2 to 3 bedroom dwellings provide a minimum of two off-street car parking spaces*
- *4+ bedroom dwellings provide three off-street spaces.*
- *1-2 bedroom apartments provide one space (3+ bed two spaces)*

In most circumstances, one visitor space per 4 dwellings is considered appropriate. One cycle space per unit is recommended."

Each dwelling will also provide infrastructure to assist with electric vehicle charging, usually in the form of an external plug socket.

Internal Layout

The internal layout has been designed to accommodate the swept path of an 11.85m large refuse vehicle (the largest vehicle expected to turn within the site) as demonstrated on Drawing 152130-002 revision A. The turning heads provided are also sufficient to accommodate the movement of smaller servicing, delivery, and emergency service vehicles.

Where the layout features private drives, refuse storage areas are provided towards the end of each drive, within the recommended carry distance for residents (30m) and within acceptable distance of the servicing position of a refuse vehicle (25m).

Adequate forward visibility and junction visibility has been incorporated into the design in line with the Council's highway design guide as demonstrated on Drawing 152130-003 Revision A.
Design standards applied to the scheme design
Manual for Streets and Manual for Streets 2. Kirklees Highway Design Guide Supplementary Planning Document November 2019
Design speeds
Cliffe Lane 30mph Internal Roads 20mph
Speed limits
Cliffe Lane 30mph Internal Roads 30mph
Existing traffic flows/queues
Refer to Transport Assessment reference 152130-001-02 Section 5.1 and report Appendix B.
Forecast traffic flows
Refer to Transport Assessment reference 152130-001-02 Section 4 and report Appendix C.
Pedestrian, cyclist and equestrian desire lines
Pedestrians See Transport Assessment reference 152130-001-02 Section 2 paragraphs 2.4.1 to 2.4.9. **Cyclists** See Transport Assessment reference 152130-001-02 Section 2 paragraphs 2.4.10 to 2.4.15. **Equestrians** There are no dedicated equestrian provisions within the vicinity of the site. The scheme will not impact equestrian use.
Environmental constraints
None known

Table C.4 Locality

Description of Locality
The site is identified within Kirklees Council's 'Local Plan Allocations and Designations' document (Adopted 27th February 2019) as a site allocated for housing (ref: HS116) with an area of 3.87Ha and an indicative capacity of 135 dwellings. The site extents are illustrated by the extract from the Council's Development Plan policies map shown in Figure 2. Figure 2 – Site Location Plan 
General description
The application site, identified within Figure 3, is currently managed agricultural land and its boundaries can be broadly summarised as follows: North: Ferrand Lane East: Residential developments from Cliffe Mount and Thatchers Way South: Cliffe Lane and the rear of fronting residential properties West: Holmfield, agricultural land, Fanwood Campsite and Archer Construction

Figure 3 – Site Location – Wider Context



Refer to Transport Assessment reference 152130-001-02 Sections 2.1 and 2.2.

Relevant factors which may affect road safety

None known.

Table C.5 Analysis

Collision data analysis
Refer to Transport Assessment document reference 152130-001-02 Section 2.3.
Departures from standards
None.
Previous road safety audit stage reports, road safety audit response reports and evidence of agreed actions
The access proposed as part of previous application 2019/90902 on Cliffe Lane was agreed by Kirklees Highways. A stage 1 Road Safety Audit was completed by Road Safety Initiatives RSI-MM-0918-003 Issue 1.1 dated 24.04.2019. A copy of the Audit is included with this brief. The previous audit brief and response report are not available at this time.
Strategic decisions
None.
List of included documents and drawings
Documents CV for Adriano B. Cappella CV for Lisa Allen Transport Assessment document reference 152130-001-02 dated 08.07.2023 Kirklees Council Highways Development Management Planning application consultation response reference 8-9SW-10 dated 25.01.2024. Highway Response Report reference 152130-003-01 dated 28.03.2024 Stage 1 Road Safety Audit - Road Safety Initiatives RSI-MM-0918-003 Issue 1.1 dated 24.04.2019 including response report prepared by Bryan G Hall Consulting Civil & Transport Planning Engineers dated 07.06.2019

Drawings
Drawing 1694-101 Revision J Site Plan Layout
Drawing 152130-001A Access Arrangement
Drawing 152130-002A Swept Path Analysis
Drawing 152130-003A Visibility Plan
Drawing 152130-004 Carriageway Dimensions
Drawing 152130-005 Swept Path Analysis Shared Surfaces

Table C.6 Checklist

Tick all that are included and provide reasons for those that are not included			
Site location plan	✓	Scale layout plans	✓
Departures and relaxations from standards	None	Construction/ typical details	N/A (Stage1)
Previous RSA reports	✓	Previous RSA response reports ~~and evidence of agreed actions~~	✓
Collision data and collision data analysis	✓	Road traffic collision plot	✓
Traffic signal staging	N/A	Traffic counts	✓
Speed surveys	Not Available	Pedestrian, cyclist and horse riding desire lines and volumes	✓
Walking, cycling and horse riding assessment and reviews	✓	Items outside the scope of the RSA/ strategic decisions	None
Other factors that may impact on road safety	✓	Design speeds / speed limits	✓
Design standards used	✓	Adjacent land uses	✓