

DARTON LANE RESIDENTIAL DEVELOPMENT, STAINCROSS

STAGE I ROAD SAFETY AUDIT – AUDIT BRIEF – ISSUE 10.05.2024

Project Summary

Date:	10 th May 2024
Document Reference:	Stage 1 RSA – Audit Brief 001
Prepared By:	Duchy Homes
On Behalf of:	Barnsley Metropolitan Borough Council
AUTHORISATION SHEET	
Project:	Proposed Residential Development, Darton Lane, Staincross
Report Title:	Darton Lane Residential Development – Stage 1 Road Safety Audit – Audit Brief
PREPARED BY:	
Design Organisation:	Duchy Homes
Design Organisation Contact Name:	Ben Mansell
Audit Brief Author:	Steve Windass, Local Transport Projects (Transport Consultant on behalf of the Design Organisation)
Signed:	Steve Windass
Date:	10/05/2024
I APPROVE THE RSA BRIEF AND INSTRUCT THE RSA TO TAKE PLACE ON BEHALF OF THE OVERSEEING ORGANISATION:	
Name:	
Signed:	
Organisation:	
Date:	

General Details

General Details				
Highway scheme name and road number	Proposed residential development on land to the south of Darton Lane, Staincross. The RSA is required to cover the proposed site access junction and internal road layout of the development.			
Type of scheme	Proposed residential development with new site access junction and internal road network.			
RSA stage tick as appropriate	1 ✓	2	3	4
	Interim			

Overseeing Organisation Details		Design Organisation Details	
Sarah Sharp Barnsley Metropolitan Borough Council sarahsharp@barnsley.gov.uk		Ben Mansell Duchy Homes Ben.Mansell@duchyhomes.co.uk	
Police Contact Details		Maintaining Agent Contact Details	
Not required at Stage 1 Audit		To be confirmed by BMBC	
RSA Team Membership			
Audit Team Leader		Tony Kirby – IEng MSc FIHE MCIHT RegRSA Director, Local Transport Projects Ltd Tony.Kirby@ltp.co.uk / 01482 679911 CV to be supplied to Barnsley Metropolitan Borough Council	
Audit Team Member		Ryan Penn – BA (Hons) IEng FIHE MCIHT MSoRSA Associate, Local Transport Projects Ltd Ryan.Penn@ltp.co.uk / 01482 679911 CV to be supplied to Barnsley Metropolitan Borough Council	
Terms of Reference			
NH (National Highways), 2020. GG 119 Road Safety Audit.			

Scheme Details

Scheme description/objective
General
A Stage 1 Road Safety Audit of the site access junction and internal road layout of the proposed development has been requested by the Highways Officer at Barnsley Metropolitan Borough Council. Although the Audit is required to consider the entire development, a potential concern has been identified with regards to overhanging of the centre line by refuse vehicles when turning in and out of the site access junction. It is noted by the design team that these refuse vehicle movements would only occur once per week, and may not even require the left-turn movements to/from Darton Lane that would result in a centreline overrun.
Design standards applied to the scheme design
South Yorkshire Residential Design Guide & Manual for Streets
Design speeds
No changes to existing design speeds on Darton Lane are proposed as part of the scheme.
Speed limits
A 30mph speed limit is in place along Darton Lane.
Existing traffic flow/queues
2022 baseline flows on Darton Lane of: <ul style="list-style-type: none"> AM peak hour – 677 vehicles (328 westbound, 349 eastbound). PM peak hour – 881 vehicles (553 westbound, 328 eastbound). Data taken from 'Proposed Residential Development South of Darton Lane, Darton, Staincross – Transport Assessment' (AMA, 2019).

Forecast traffic flows

Data within the 'Proposed Residential Development South of Darton Lane, Darton, Staincross – Transport Assessment' (AMA, 2019) indicates that the proposed residential development could be expected to generate 43 two-way vehicle trips (12 arrivals and 31 departures) during the AM peak hour and 42 two-way vehicle trips (27 arrivals and 15 departures) during the PM peak hour.

Since the production of the above, the development quanta has been reduced from 86 dwellings to 46 dwellings and, as such, projected site vehicle trip generation will be less than quoted above.

Pedestrian, cyclist and equestrian desire lines

Existing sustainable transport provision is considered within the 'Proposed Residential Development South of Darton Lane, Darton, Staincross – Transport Assessment' (AMA, 2019).

Environmental constraints

It is understood that there are no environmental constraints relating to the proposed development site.

Locality

Description of locality

The proposed development site is located to the south of Darton Lane, in the village of Staincross, near Barnsley. The site currently forms open grassland and is bound by Darton Lane (B6131) to the north, residential properties served by the eastern section of Darton Lane to the east, woodland and agricultural land to the south, with residential properties and Darton Primary School forming the site's western boundary.

Relevant factors which may affect road safety

There are no locality factors which are considered to affect road safety.

Analysis

Collision data analysis

Personal Injury Collision (PIC) data for the extents of the site frontage onto Darton Lane was obtained from 'www.crashmap.co.uk' (a website which utilises collision information provided by the Department for Transport) for the 5-year period 01/01/2018 to 31/12/2022. During this period, no PICs have been recorded.



Departures from standards
Only one departure from standards is noted by the design team, with respect to the potential refuse vehicle centreline overrun at the Darton Lane site access. No other departures from standards are noted relative to the requirements within the South Yorkshire Residential Design Guide or Manual for Streets.
Previous road safety audit stage reports, road safety audit response reports and evidence of agreed actions
None.
Strategic decisions
There are considered to be no relevant strategic decisions at this stage.
List of included documents and drawings
<p>Drawings: 2239.01 Rev AJ Planning Layout LTP 5249 T1 02 01 Refuse Vehicle SPA</p> <p>Documents: <i>Proposed Residential Development South of Darton Lane, Darton, Staincross – Transport Assessment</i> (AMA, 2019). <i>Proposed Residential Development Darton Lane, Staincross – Transport Note</i> (LTP, 2023).</p>

Checklist

Tick all that are included and provide reasons for those that are no included			
Site location plan	*1	Scale layout plans	✓
Departures and relaxations from standards	✓	Construction/typical details	*6
Previous RSA reports	*2	Previous RSA response reports and evidence of agreed actions	*7
Collision data and collision data analysis	✓	Road traffic collision plot	✓
Traffic signal staging	*3	Traffic counts	✓
Speed surveys	*4	Pedestrian, cyclist and horse-riding desire lines and volumes	*8
Walking, cycling and horse-riding assessment and reviews	*5	Items outside the scope of the RSA/strategic decisions	✓
Other factors that may impact on road safety	✓	Design speeds/speed limits	✓
Design standards used	✓	Adjacent land uses	✓

*1 – See location plan within Transport Note (LTP 2023).

*2 – No previous RSA reports have been undertaken.

*3 – Traffic signal staging not applicable.

*4 – Speed surveys not undertaken.

*5 – Sustainable transport provision considered within Transport Assessment (AMA, 2019).

*6 – No construction details currently provided as design at preliminary stage rather than detailed design.

*8 – Sustainable transport provision considered within Transport Assessment (AMA, 2019).