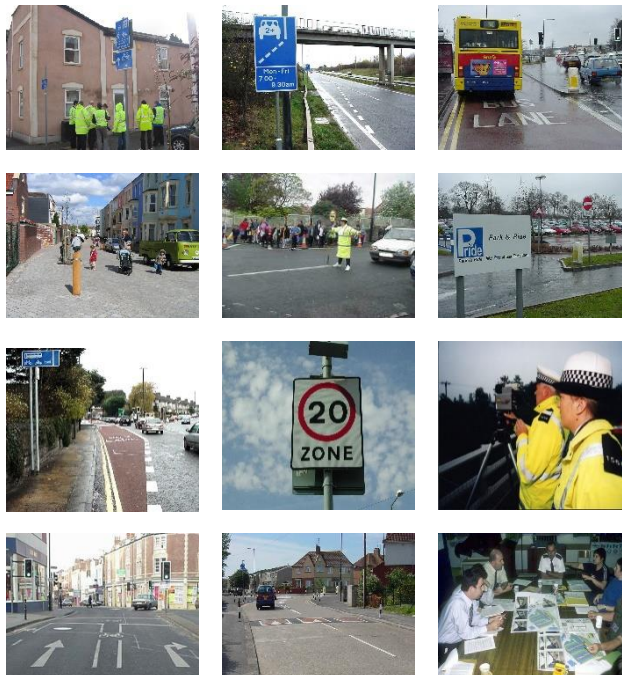


Internal Highway Layout for Proposed Residential Development at South Downs College College Road, Waterlooville Hampshire

**Stage 1 Road Safety Audit for
Awcock Ward Partnership
Consulting Limited**

17 February 2023



David A Graham Associates Limited

**INTERNAL HIGHWAY LAYOUT FOR
PROPOSED RESIDENTIAL DEVELOPMENT
SOUTH DOWNS COLLEGE, COLLEGE ROAD
WATERLOOVILLE, HAMPSHIRE**

**STAGE 1 ROAD SAFETY AUDIT
FOR AWCOCK WARD PARTNERSHIP CONSULTING
LIMITED**

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Date:	17 th February 2023
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Prepared by:	David A Graham Associates Limited
On Behalf of:	Hampshire County Council



David A Graham Associates Limited

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INTERNAL HIGHWAY LAYOUT FOR PROPOSED RESIDENTIAL DEVELOPMENT SOUTH DOWNS COLLEGE COLLEGE ROAD, WATERLOOVILLE HAMPSHIRE

STAGE 1 ROAD SAFETY AUDIT

1. INTRODUCTION

1.1 This report describes a Stage 1 Road Safety Audit carried out on the proposed internal highway layout works associated with a proposed residential development of 102 affordable dwellings at an existing brownfield site at South Downs College, College Road, Waterlooville, Hampshire PO7 8AA. The Audit was carried out on behalf of Awcock Ward Partnership Consulting Limited (AWP) Kensington Court, Woodwater Park, Pynes Hill, Exeter EX2 5TY (referred to here as AWP).

1.2 The Audit team members were as follows:-

David Graham (Team Leader)
Managing Director
David A Graham Associates Ltd
(Certificate of Competency in Road Safety Audit gained in July 2013)

Veronica Graham (Team Member)
Director
David A Graham Associates Ltd

1.3 The Audit took place in the offices of D.A.G.A. Limited and on site at 5.15pm on Friday 17th February 2023. The Audit was undertaken in accordance with email instructions, documentation and Audit Brief received from Ms Cat Grindle, Principal Transport Planner of AWP on 16th February 2023. The Audit comprised an examination of the drawings and supporting information supplied by Ms Grindle listed in **Appendix A** and a site visit by the Audit Team. Photographs taken during this site visit are included in **Appendix B**. The weather was cloudy and the road surface was dry. The traffic conditions were light/ medium on College Road which is the nearest existing road to the proposed internal road network.

1.4 The terms of reference of the Audit are as described in GG 119 of the Design Manual for Roads and Bridges (DMRB). The Road Safety 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 design to any other criteria.

- 1.5 All of the problems described in this report arise from the design drawings supplied to the Audit Team and observations made during the site visit. Their locations have been indicated on the A4 drawing in **Appendix C**.
- 1.6 The proposed development is on an existing area of brownfield site and will consists of 102 affordable residential dwellings Only the highway adjacent to the main access onto College Road will be adopted; the rest of the streets, from which each residence takes access, will remain in private ownership. Access will be from College Road to the south of Apollo Drive. College Road is subject to a 30mph speed limit where access for vehicles and pedestrians will be considered.
- 1.7 There was a system of street lighting present on the College Road in the vicinity of the proposals where a 30mph speed limit in force on College Road. The interior layout of the proposed residential development which is the subject of this Audit is not yet at sufficient detail to determine the prevailing speed limit or street-lighting regime at Stage 1 of the Audit.
- 1.8 The Audit team have been advised in the Audit Brief that the internal road layout will take account of 'Streets for a Healthy Life' (Homes, England, July 2022), but have not been specifically made aware of any Departures from Standard having been agreed with the highway authority Hampshire County Council.

2. ITEMS RESULTING FROM PREVIOUS AUDITS

- 2.1 The proposed access arrangements to the new development off College Road, were the subject of a Stage 1 Road Safety Audit carried out by David A Graham Associates on the 18th of September 2020. There do not appear to be any items outstanding from this Audit.
- 2.2 The Audit team have not received a Designers Road Safety Audit Response Report to the Audit carried out on 18th September 2020.

3. ITEMS RESULTING FROM THIS STAGE 1 ROAD SAFETY AUDIT

3.1 PROBLEM

Location – General: Proposed internal layout of residential development

Summary: Potential for lack of awareness of design parameters restricting carriageway widths for visiting and resident drivers, riders and pedestrians which could lead to sideswipe type collisions between opposing vehicles and the potential for collisions with passing pedestrians

The Audit team understand from the Audit brief that the design parameters described in 'Streets for a Healthy Life' (Homes, England, July 2022) will be employed with regard to the highway layout for this residential development. Amongst other things, this will lead to there being narrower road widths at bends. Whilst the Audit team appreciate the principles of this approach, they are concerned that drivers and riders entering the new development, particularly those that are not resident, may be unfamiliar with the principles of this approach, particularly when they approach bends to the extent that they could be involved in heavy braking, shunts and sideswipe type collisions with vehicles from the opposing direction. There could also be an increased risk of collision with passing pedestrians.

RECOMMENDATION

The Audit team feel that it will be important for drivers and riders entering the new development to immediately appreciate the consequences of the design parameters employed in the highway layout design. To achieve this the Audit team would recommend that the internal layout is designated at the very least as a 20mph zone, but perhaps more feasibly, as a Home Zone where the onus is on drivers and riders to give way to pedestrians at very low speeds which should accommodate situations where road widths at bends are narrower than approaching drivers and riders might anticipate.

4. AUDIT TEAM STATEMENT

We certify that this road safety audit has been carried out generally* in accordance with GG 119 of The Design Manual for Roads and Bridges (DMRB)	
ROAD SAFETY AUDIT TEAM LEADER	
Name:	David Graham IEng, FIHE, CMILT, MCIHT, MIET, MSoRSA, RegRSA(IHE)
Signed	
Position:	Managing Director
Organisation	DAGA Ltd 4 Lower Downside Shepton Mallet Somerset BA4 4JX
Date:	17 February 2023
ROAD SAFETY AUDIT TEAM MEMBER	
Name:	Veronica Graham LL.B(Hons), MSoRSA
Signed	
Position:	Director
Organisation	DAGA Ltd 4 Lower Downside Shepton Mallet Somerset BA4 4JX
Date:	17 February 2023

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APPENDIX A

DOCUMENTS PROVIDED TO THE AUDIT TEAM

The Audit was undertaken in accordance with an email instructions, drawings, documentation and Audit Brief received from Ms Cat Grindle of AWP on 16 February 2023.

DOCUMENTS

Stage 1 RSA Audit Brief by AWP dated 16 February 2023

DRAWINGS

Drawing No. 1017-PHL-1003-A Internal Forward Visibility Plan

Drawing No. 1017-PHL-1004-A Proposed Site Layout

Drawing No. 1017-ATR-105-A Swept Path Analysis – Intervisibility

Drawing No. 1017-ATR-106-A Swept Path Analysis – Fire Tender Tracking

Accident Statistics:

Not available

Traffic Generation Data:

Refer to Audit brief dated 16/02/2023

Traffic Flow Data:

Refer to Audit brief dated 16/02/2023

APPENDIX B – PHOTOGRAPHS



APPENDIX C

DRAWING SHOWING LOCATIONS OF PROBLEMS IDENTIFIED

