

Woodbarn Farm, Broadford Bridge

Stage 1 Road Safety Audit

Barton Willmore

6 July 2012
Final Report
9X0727-04



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1 INTRODUCTION

- 1.1.1 Haskoning UK Limited has been appointed by Barton Willmore to undertake a Stage 1 Road Safety Audit for highway works associated with a temporary construction access at Woodbarn Farm, Broadford Bridge, West Sussex.
- 1.1.2 A daytime site visit was undertaken by the Audit Team on Tuesday 3rd July 2012 at 1100 during the late morning inter-peak period, traffic conditions observed were steady with a relatively high HGV content. The weather was overcast with wet surface conditions.
- 1.1.3 The Authors of this Audit have examined and reported only on road safety implications of the scheme as presented on site and on the drawings provided and have not examined or identified the compliance of the designs to any other criteria.
- 1.1.4 The Audit is only concerned with the proposed scheme highway works and their interface with the adjacent highway network managed by West Sussex County Council.
- 1.1.5 The highways proposals include the following:
- Alteration to the existing access to provide temporary access for construction traffic associated with exploratory borehole works; and
 - Traffic signage associated with proposed temporary construction access.
- 1.1.6 A site location plan is appended to this report as **Figure 1**.
- 1.1.7 The terms of reference of the audit are as described in the following documents:
- Design Manual for Roads and Bridges: Volume 5 - HD 19/03;
 - Interim Advice Note 152/11: Road Safety Audit – Compliance with EC Directive 2008/96/EC; and
 - Road Safety Audit, Chartered Institute of Highways & Transportation, 2008.
- 1.1.8 The Audit Team were provided with the following information:
- Figure 4.4 – Access Track Entrance; and
 - Transport & Access Chapter (Final, dated July 2012).
- 1.1.9 Copies of this information can be found in **Appendix A** for information only.
- 1.1.10 Whilst recommendations have been made as part of this report, there may be equally satisfactory alternatives. The Auditors will be pleased to consider recommendations if required.

2 QUALIFICATIONS AND EXPERIENCE OF THE REPORT WRITERS

2.1.1 This Road Safety Audit was carried out by the following Audit Team in accordance with the requirements of HD 19/03 and IAN 152/11.

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2.1.2 A summary of the Audit Team's qualifications and experience is provided in **Appendix B** of this report.

3 MATTERS ARISING FROM THIS AUDIT

A1 General

A1.1 Departures from Standards

The audit team have not been advised of any Departures from Standard.

A1.2 Drainage

A1.2.1 PROBLEM

Location: Proposed site access, Adversane Lane

Description: Existing drainage ditch running along site boundary could flood where filled to accommodate access construction, leading to potential to create ponding / flooding on Adversane Lane.

Recommendation

Drainage measures should be provided where ditch is to be filled, ensuring ponding / flooding does not arise on Adversane Lane as a result of the proposed access construction. **Culvert under extended site entrance already specified.**

A1.3 Access

A1.3.1 PROBLEM

Location: Proposed site access, Adversane Lane

Description: Large vehicles accessing / egressing the proposed development would create conflict with other road users if unable to safely access the site in a simple manoeuvre.

Recommendation

Provide drawings showing swept path analysis for all vehicle types required to access / egress the proposed development, ensuring vehicle movements can be undertaken in a single manoeuvre to avoid unnecessary conflict with traffic travelling on Adversane Lane. **Swept path analysis carried out and shown on plans.**

A1.3.2 PROBLEM

Location: Proposed site access, Adversane Lane

Description: Proposed arrangement shows existing drainage ditch with no earthworks tie-in from access channel to ditch level. Aside from structural reasons, a verge should be provided to accommodate vehicle overrun into the ditch.

Recommendation

Provide appropriate minimum verge width and embankment to ditch level to ensure any vehicle overrun does not result in any vehicles overrunning the channel line tumbling into the ditch. **Noted: allowance for accidental over-run will be incorporated into design.**

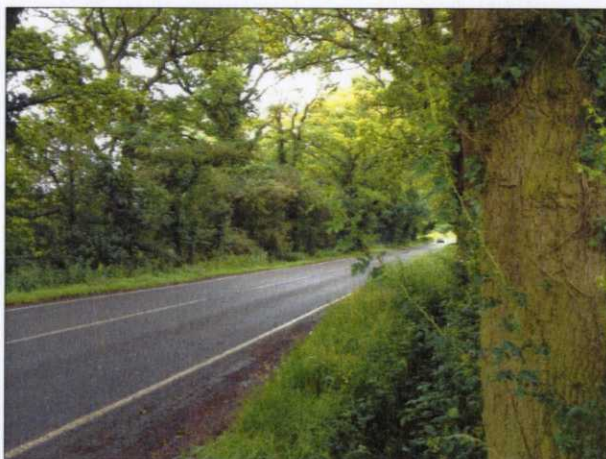
A2 Local Alignment

A2.1 Visibility

A2.1.1 PROBLEM

Location: Proposed site access, lateral visibility to east.

Description: Visibility to right when egressing sight constrained by overgrowth of verge landscaping, which could result in conflict between vehicles exiting the site and those travelling westbound along Adversane Lane.



Recommendation

Ensure visibility splays meet required standards by trimming overgrown verge landscaping, ensuring a maintenance regime for verge trimming is in place for the lifespan of the development access. **All seasonal foliage to be removed from sight lines before junction is completed and opened for access.**

A5 Road Signs, Carriageway Markings and Lighting

A5.1 Signs

A5.1.1 PROBLEM

Location: Approaches to proposed site access from Adversane Lane

Description: Information and warnings conveyed by road signage to drivers at risk of being lost as a result of unclean signage on approaches to the proposed access, resultant from muddy, wet surface conditions observed during site visit.

Recommendation

Implement regular sign cleansing maintenance regime, ensuring signage gives clear warning of proposed construction access particularly during autumn / winter conditions and hours of darkness. **Noted. Provision will be made within the tenders.**

A5.1 Posts / Columns

A5.1.1 PROBLEM

Location: Approaches to proposed site access from Adversane Lane

Description: Sign mounting details not provided for Stage 1 Road Safety Audit. Signs mounted without sufficient clearance of vehicles travelling in both directions on the relatively narrow Adversane Lane are at risk of vehicle strikes.

Recommendation

Ensure sign mounting details are provided for Stage 2 Road Safety Audit, giving consideration to road width and visibility with context to landscaping. **Final details of posts/sign supports to be agreed with area highways officer prior to commencement of works.**

4 **AUDIT TEAM STATEMENT**

We certify that we have examined the drawings and documents listed in the Appendices to this report. The examination 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. The problems identified have been noted in this report, together with associated safety improvement suggestions, which we recommend should be studied for implementation. The writers have not been involved with the scheme design.

Signed 

Date 06/07/2012

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Signed..... 

Date..... 12 November 2012.

PROJECT DESIGNER

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