



Stage 1/2 Road Safety Audit Report

**A474 Neath Abbey Road, Neath
Proposed new Aldi Foodstore
S 38 Highway works**

**Produced for:
Entran**

Date: 28th March 2021



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DOCUMENT REGISTER

Project Name: Aldi A474 Neath Abbey Road, Neath S 38 highway works

Report Title: Stage 1/2 Road Safety Audit

Date: 28th March 2021

Client: Entran

Audit Team	Name	Position	Date
Audit Team Leader:	Peter Ronald	Director	28/03/2021
Audit Team Member:	Wing Lee	Road Safety Auditor	28/03/2021
Approved By:	Peter Ronald	Director	28/03/2021

Revision History					
Revision	Date	Description	Audit Team Leader	Audit Team Member	Approved
-	28/03/2021	Draft	PR	WL	PR
A	28/03/2021	Final	PR	WL	PR

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1. Executive Summary

- 1.1 This scheme is promoted by Aldi Foodstores. This Road Safety Audit is supplied under the provisions of the Safety Audit request dated 24th March 2021.

2. Introduction

- 2.1 This report results from a Stage 2 Road Safety Audit request for a proposal to construct a new service road to access a new Aldi Foodstore with access onto the A474 Neath Abbey Road, Neath on land in front of CSN Precision Engineering.
The works include S38 highway works to provide a new access road to both the store and CSN engineering and adjacent future development.

2.2 Audit Team Membership

The Audit Team comprised the following individuals:

Peter Ronald I.Eng, AMICE, MCIHT, MSoRSA, (HE - RSA Cert of Comp).
(Audit Team Leader)

Wing Lee BEng(hons), PGCert, MCIHT, MIHE, (HE - RSA Cert of Comp).
(Audit Team Member)

2.3 Audit Site Visit

A site visit was carried out on Tuesday 8th December 2020 by the Audit Team, between 1.30pm and 2.30pm. The weather conditions were cloudy and dry. Traffic Flows were low and limited pedestrian/cycle movements were observed. The road surface was wet. Vehicle speeds were perceived to be within the posted 30mph speed limit along Neath Abbey Road

The Audit also comprised an examination of the drawing provided by Craddys and any additional support documents completed by the Audit Team as listed in **Appendix A**. All safety issues are with reference to the outline design details shown on the drawing.

2.4 Strategic Decisions

The Audit Team has not been advised of any Strategic Decisions made by the Local Highway Authority or by the Local Planning Authority.

2.5 Audit Brief

The Audit Team were not provided with an Audit Brief by the Local Authority.

2.6 Terms of Reference

The terms of reference of the audit are based on "Guidelines For the Safety Audit of Highway Schemes" published by the Institution of Highways and Transportation, other guidance references are the Traffic Signs Regulations and General Directions 2016, and GG119 Design Manual for Roads and Bridges.

The Audit Team has examined and reported only on the road safety implications of the scheme and has not verified the compliance of the designs to any other criteria. However, to clearly explain a safety problem or the recommendation to resolve a problem the Audit Team may, on occasion, have referred to a design standard or other guidance documents.

2.7 **Audit Recommendations**

Recommendations included within this report should not be regarded as being prescriptive design solutions to the problems identified. They are only to indicate a proportionate and viable means of eliminating or mitigating the identified road safety audit matters, and in no way imply that a formal design process has been undertaken.

There may be alternative measures of addressing a problem which would be equally acceptable or superior in achieving the desired degree of mitigation and these should be considered by the designer when responding to this report.

2.8 **Scope of Road Safety Audits**

Road Safety Audit shall only be concerned with Road Safety Matters, i.e. *an element of the existing road environment or proposed road environment that could potentially contribute to a road traffic collision or features that could present a risk of injuries to road users.*

Road Safety Audit is not a technical check that the design conforms to standards and/or best practice guidance.

Road Safety Audit is not a check that the scheme has been constructed in accordance with the design.

Road Safety Audit does not consider structural safety.

Road Safety Audit does not cover health and safety issues concerning road workers during the construction phase but may cover the future maintenance and operation of the road.

Road safety matters resulting from the operation of facilities for highway maintenance that affect road users shall be included in the scope of Road Safety Audit.

The needs of all road users shall be assessed when undertaking Road Safety Audits.

3. Risk Assessment

- 3.1 Each of the Auditors' responses is classified as either a 'Problem' or a 'Nil Response / Comment'. Items classified as a 'Problem' denote matters likely to result in significant road safety hazards. Items marked as 'Nil Response / Comment' are less serious but worthy of consideration by the Designer and/or by the Overseeing Organisation.
- 3.2 Although all the problems identified are of sufficient importance to require action, the table below shows their relative urgency based on the risk perceived by the Safety Auditors. The level of risk assigned to each problem is largely subjective and is only intended as a guide to assist the client in determining the priority of the road safety matters raised.

Severity / Risk Level	Probability				
	Frequent	Probable	Occasional	Remote	Improbable
Catastrophic	****Problem**** (Urgent)				
Critical		***Problem*** (High Risk)			
Major			**Problem** (Medium Risk)		
Minor				*Problem* (Low Risk)	
Negligible					Comment

4. Historical Summary

- 4.1 The site is currently open space in front of CSN Precision Engineering .

5. Existing Environment

- 5.1 The A474 Neath Abbey Road is a single carriageway classified road that links north from the large roundabout junction with the A4230 to Cadoxton Road to Cadoxton and Rhyddings.
- It has a footway only along its southern side in the vicinity of the new store and has a system of street lighting that introduces a 30mph speed limit.
- The speed limit reduces to 20mph to the east of the proposed store access then continues to the east. The site is located off the south western side of Shipton Road, Woodstock east of Woodstock.

6. Collision Data

- 6.1 The Audit Team have not been provided with any recorded injury collision data as part of this road safety audit.

7. Survey Information

7.1 None provided.

8. Audit Assessment

8.1 The table below summarises the findings from this audit which are described in detail within the following pages.

Identified locations of Road Safety Audit Matters are indicated on drawings within **Appendix B** to the rear of this report.

No.	Item	Comments	Notes
B1	General		
B1.1	Departures from Standards		
B1.2	Drainage	Problem	(8.1) No drainage detailed near side road junctions to prevent surface water from flowing across junctions
B1.3	Climatic Conditions		
B1.4	Landscaping		
B1.5	Public Utilities/ Services Apparatus		
B1.6	Lay-bys		
B1.7	Access		
B1.8	Skid Resistance		
B1.9	Agriculture		
B1.10	Fences and Road Restraint Systems		
B1.11	Adjacent Developments and Roads		
B1.12	Road alignment		
B1.13	General layout		
B2	Local Alignment		
B2.1	Visibility		
B2.2	New/Existing Road Interface		
B3	Junctions		
B3.1	Layout		
B3.2	Visibility	Problem	(8.2) No visibility splays detailed on side road junctions
B3.3	Signing		
B3.4	Road Markings	Problem	(8.3) Centre line appears to be offset and not incentre on access to CSN Engineering
B3.5	T, X and Y junctions		
B3.6	All roundabouts		
B3.7	Mini Roundabouts		
B3.8	Traffic Signals		
B4	Non-Motorised User Provision		
B4.1	Adjacent Land		

B4.2	Pedestrians	Problems	(8.4) No pedestrian crossing point across the new access road to enable pedestrians from the adjacent development west of the new Aldi store to cross over the road (8.5) Footways do not extend to southern end of road to link up with future development with possible pedestrian requirement
B4.3	Cyclists		
B4.4	Equestrians		
B5	Road Signs, Carriageway Markings and Lighting		
B5.1	ADS and Local Traffic Signs		
B5.2	Variable Message Signs		
B5.3	Lighting		
B5.4	Road Markings		
B5.5	Poles and Columns		

8.1 *Problem* (Item B1.2)	
Location:	Access road south of Aldi entrance
Summary:	No carriageway drainage detailed on side road south of Aldi entrance
There is a side road junction south of the Adli entrance without any drainage provision. Check levels and provide drainage where necessary to prevent surface water from flowing across the junction that will cause problems especially in icy conditions.	
TYPE OF CONFLICT/COLLISION	
Surface water causing a problem for road users in icy conditions	
RECOMMENDATION	
Check levels and provide additional drainage if necessary	

8.2 *Problem* (Item B3.2)	
Location:	New junctions off access road
Summary:	No visibility splays detailed on side roads/accesses
There are no visibility splays detailed on the side road junctions and accesses. Provide appropriate clear visibility splays on the accesses and junctions to ensure vehicles exiting the side roads can see oncoming vehicles and allow them to exit from the side roads safely	
TYPE OF CONFLICT/COLLISION	
Collisions at accesses and junctions due to reduced visibility of oncoming vehicles	
RECOMMENDATION	
Provide appropriate clear visibility splays on accesses and junctions	

8.3 *Problem* (Item B3.4)	
Location:	CSN Engineering access
Summary:	Centre line at give way marking appears to be offset on side road
There are give way markings and centre line at the junction that appear to be offset from the centre of the road. This will result in turning vehicle collisions. Amend markings to ensure no head on turning vehicle collisions on side road	
TYPE OF CONFLICT/COLLISION	
Head on collisions at junction	
RECOMMENDATION	
Amend markings on access	

8.4 *Problem* (Item B4.2)	
Location:	New access road
Summary:	No pedestrian crossing point across access road to south of Aldi Store
There is a new access road detailed just south of the Aldi Access with footways to future development. It is likely that pedestrians will want to cross over the access road to link up from the new development to the Aldi store. Provide pedestrian crossing point at this location	
TYPE OF CONFLICT/COLLISION	
Pedestrians falling in carriageway having to cross over full height kerbs	
RECOMMENDATION	
Provide additional pedestrian crossing point	

8.5 *Problem* (Item B4.2)	
Location:	New access road
Summary:	Footways do not extend upto southern end of road to cater for future development
There are footways detailed on both sides of the access road that end at the last side road and do not extend upto the end of the road to link up with future development. As the design appears to suggest that the access road will be extended in the future appropriate additional lengths pedestrian footways and pedestrian crossing points need to be provided to cater for future pedestrian movement along the access road.	
TYPE OF CONFLICT/COLLISION	
Pedestrians having to walk in carriageway to go south to future development	
RECOMMENDATION	
Provide additional length of footways with pedestrian crossing points if future development is proposed	

9. Nil Response/Comments

No comments

10. Non-Motorised User Report (NMU's)

- 10.1 This report has identified several road safety problems affecting NMU's that need to be resolved

11. Audit Team Statement

I certify that we have examined the drawing listed within **Appendix A** and that the site has been inspected. The examination has been carried out with the sole purpose of identifying road safety matters that can be addressed to improve the safety of the scheme.

The problems identified have been noted in the report together with associated safety improvement suggestions that we recommend should be studied for implementation.

I can confirm that we have not been involved with the scheme design.



Peter Ronald
(Audit Team Leader)

28th March 2021



Wing Lee
(Audit Team Member)

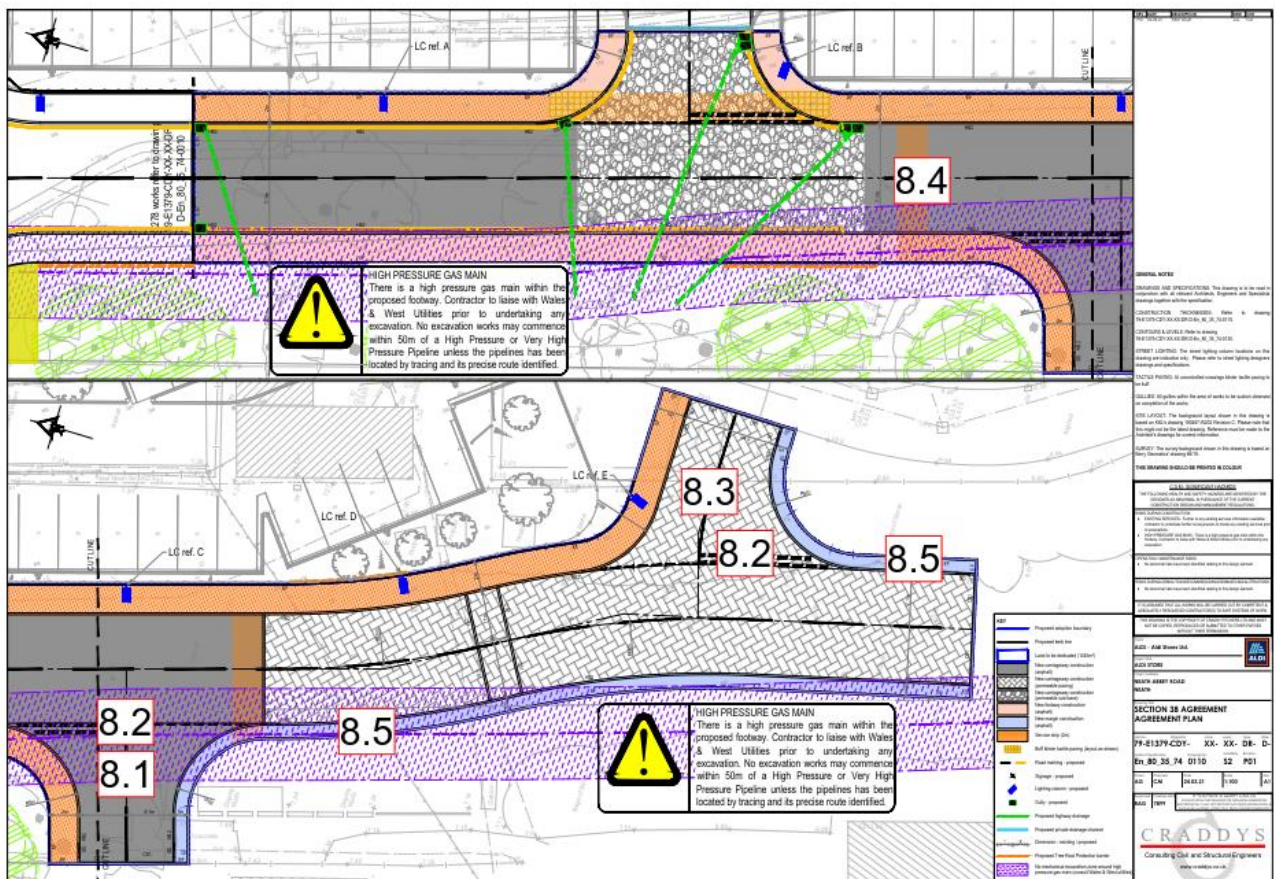
28th March 2021

12. Appendix A - List of Documents

Drawings

Title	Drg. No.	Revision
Vehicle swept path	79-E1379 CDY Xx XX DR D EN-80-35-74-0107-P01	
S38Engineering Layout	79-E1379 CDY Xx XX DR D EN-80-35-74-0110-P01	
S38 Signs and markings	79-E1379 CDY Xx XX DR D EN-80-35-74-0112-P01	
S38 Contours and levels	79-E1379 CDY Xx XX DR D EN-80-35-74-0130-P01	
Long section	79-E1379 CDY Xx XX DR D EN-80-35-74-0131-P01	
Cross section	79-E1379 CDY Xx XX DR D EN-80-35-74-0132-P01	

13. Appendix B - Identified Road Safety Audit Matters Location Plans



14. Appendix C - Designer's and Auditor Response to Stage 1/2 Road Safety Audit

Stage 1/2 (Road Safety Audit)		
DESIGNER'S ROAD SAFETY AUDIT RESPONSE		
Scheme Name: Aldi Neath Abbey Road S38		
The issues categorised in this road safety audit as 'Problem' matters are those causing serious concern and are summarised below. The purpose of this form is for the scheme Designer or Overseeing Organisation to respond to the 'Problem' matters. Responses should be returned to Traffic Management Consultants. 'Comments' in this report are made for the benefit of the Designer and are not referred to below.		
RSA Matter	Summary of RSA Problem	Designer's Response
8.1	No carriageway drainage detailed on side road south of Aldi entrance	Agreed. Road B junction kerb profile revised to remove low point. Extra gully placed at the new pedestrian crossing.
8.2	No visibility splays detailed on side roads/accesses	Noted. Refer to drawing 79-E1379 CDY XX XX DR D EN-80-35-74-0105-P01 – S38 Agreement Plan which includes visibility splays for each junction.
8.3	Centre line at give way marking appears to be offset on side road	Agreed. Road C (CSN access) junction road markings revised.
8.4	No pedestrian crossing point across access road to south of Aldi Store	Agreed. Pedestrian crossing added between Road A (store access) and Road B.
8.5	Footways do not extend up to southern end of road to cater for future development	Noted. Development to the south has no pedestrian access as it is a service yard (for existing stonemason's depot) with no pedestrian facilities. To discourage use as a NMU access route no footway has been provided, existing NMU access is to the West via Abbey Road Industrial Estate.

AUDIT TEAM RESPONSE

- 8.1
- 8.2
- 8.3
- 8.4
- 8.5