

ROAD SAFETY AUDIT – STAGE 1

**Residential Development
Cloghroe
Cork**
June 2021





Document Control Sheet

Client	Cloghroe Development Ltd.
Project Title	Cloghroe Residential Development
Document Title	Road Safety Audit – Stage 1
Document No.	CRD_RSA1_D01
Job No.	19083HD

Revision	Status	Author	Reviewed By	Approved By	Date
01	Internal Draft	B Murphy	B. Loughrey	B Loughrey	23/06/2021
02	Client Issue	B Murphy	B. Loughrey	B Loughrey	23/06/2021

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1. INTRODUCTION

This report was prepared in response to a request from Cloghroe Developments Ltd. to carry out a Stage I Road Safety Audit on a proposed residential development at Cloghroe, Cork.

This Road Safety Audit (RSA) assesses the proposed development entrances and public realm improvement works associated with the scheme.

The purpose of the audit is to highlight road safety issues that exist or may be created by the proposal and should be addressed to mitigate against possible future accidents in the area. The intent is to improve the operational safety of the scheme for the benefit of all road users.

The speed limit of the R617 fronting the development is 50km/hr and features a wide carriageway with a downhill approach from the north.

The Audit Team consists of Brian Loughrey of MHL Consulting Engineers (team leader) and Brian Murphy (team member) of MHL Consulting Engineers. The two team members made a site visit during daylight hours in June 2021 when the weather was dry.

Information provided to assist the Audit included planning stage drawings of the proposed development as listed in Appendix A.



Fig 1: Site Location

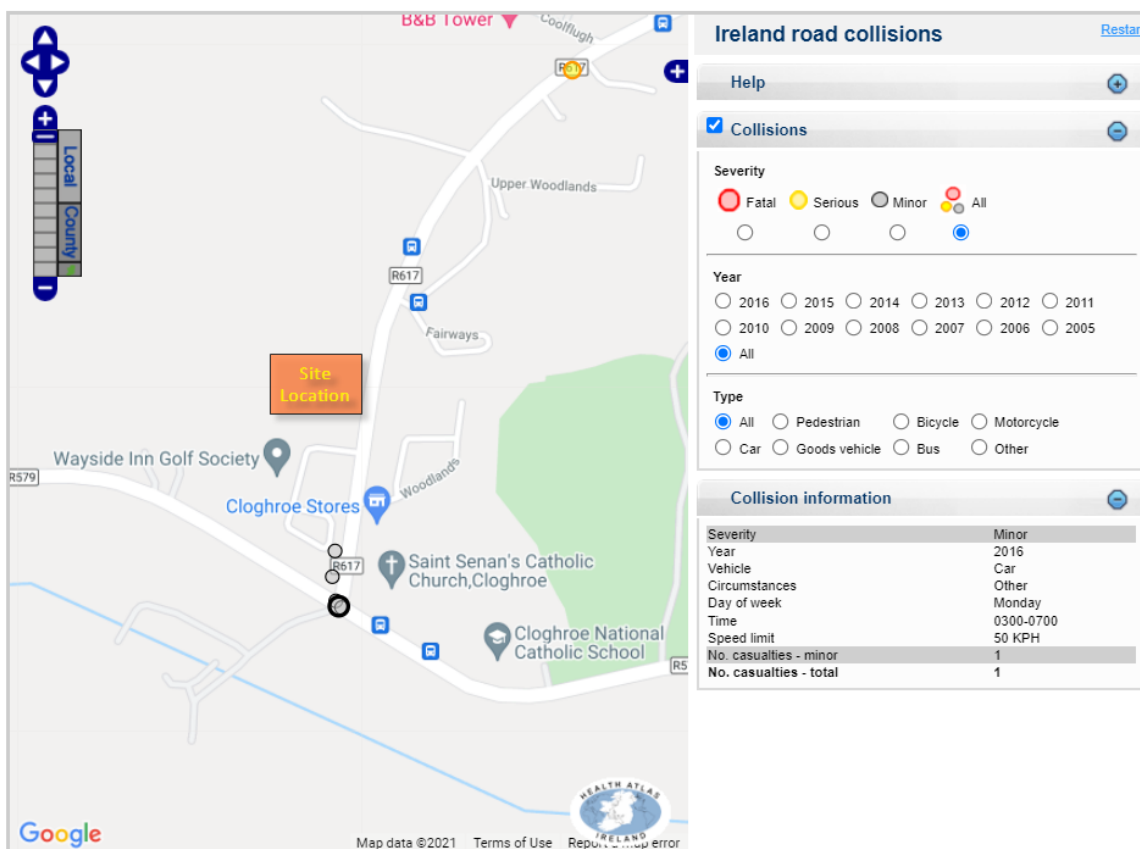


Fig 2: RSA Collision Map in vicinity of Site

No details of collision statistics were provided. The auditors consulted the RSA Road Collision Records, as published on the RSA website, in the vicinity of the site for the period 2005 to 2016 inclusive.

A number of minor collisions occurred in the wider area over the available 11-year period as shown in **Figure 2**.

The Audit has been carried out in accordance with the relevant sections of NRA HD 19/15, “Road Safety Audit”. The scheme has not been examined or verified for compliance with any other standards or criteria. The team drove and walked the extent of the scheme and compiled a list of road safety problems and associated recommendations which are presented in this report.

An Audit Team Statement is included at the end of the Report.

2. AUDIT ISSUES

2.1 Problem: Cycle Track – Colour Contrast through junctions.

The drawings submitted for audit does not propose colour contrasted surfacing through proposed junctions. This could lead to collisions involving vehicles crossing over the cycle track and not being aware of cyclist priority through the junction.

Recommendation 1

Provide a contrasting surface treatment on the at grade section of cycle tracks through the proposed junctions in accordance with the National Cycle Manual. The provision of a colour contrasted surface through the junction will greatly enhance cyclist safety.

2.2 Problem: No Signage & Road Markings detailed on Cycle Track.

There are no details of signage or road markings relating to the cycle track on the drawings submitted for audit. Specifically, road markings and signage indicating the start and end of the track, shared space areas should be designed for. Failure to inform cyclists of a loss of priority at the end of the cycle facility could result in cyclists merging with mainline traffic in an uncontrolled manner.

Recommendation 2

Provide appropriate signage and road markings in accordance with the National Cycle Manual.

2.3 Problem: Ladder/Tramline Tactile Paving at bus stop.

Appropriate tactile paving should be installed in accordance with relevant design guidance in the vicinity of the bus stop to implement the intended shared space priority. This tactile paving will serve to ensure visually impaired or vulnerable pedestrians do not conflict with cyclists. Kassel kerbing should also be installed at the bus stop kerb edge.

Recommendation 3

Ensure appropriate tactile paving is provided at all locations along the scheme.

2.4 Problem: Advanced Warning Signage at proposed Controlled Pedestrian Crossing.

It is not clear from the drawing submitted for audit if signage on the approaches to the proposed crossing will be provided. Failure to provide adequate warning signage may lead to drivers failing to see the crossing point in time resulting in collisions between passing vehicles and crossing pedestrians.

Recommendation 4

Provide advanced warning signage in accordance with the Traffic Signs Manual.

2.5 Problem: Visibility at proposed new junctions and pedestrian crossing.

The designers should ensure that all visibility splays to and from the proposed junctions and the controlled pedestrian crossing are provided in accordance with relevant design standards. Ensure that the splays are free of landscaping elements and poles that may restrict visibility. Failure to provide adequate visibility splays at junctions and pedestrian crossings may lead to collisions between exiting vehicles at junctions and crossing pedestrians at the controlled crossing.

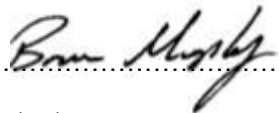
Recommendation 5

Ensure that adequate visibility splays and forward visibility is provided at the new junctions and also at the proposed new pedestrian crossing.

3. AUDIT TEAM STATEMENT

We certify that we have examined the drawings and documents listed in the Appendices of this report. The examination has been carried out with the sole purpose of identifying any features that could be removed or modified in order to improve the safety of the proposed development. The problems identified have been noted in this report, together with associated safety improvement suggestions, which we recommend should be studied for implementation. The auditors have not been involved in the design of this scheme.

Mr Brian Murphy BE CEng MIEI

Signed: 

Date: 23/06/2021

Mr Brian Loughrey BE CEng MIEI

Signed: 

Date: 23/06/2021

APPENDIX A

Drawings and documents submitted for information:

By: Deady Gahan Architects

Cloghroe, Cork

File Name	File Type	Drawing Title	Scale	Revision
RL1-PFP-P01	AutoCAD .dwg	n/a	n/a	04
Site Layout Drawing	PDF	n/a	n/a	04
Public Lighting Design	PDF	n/a	n/a	01

APPENDIX B

Road Safety Audit Feedback Form

Scheme: Cloghroe, Cork

Route No. N/A

Audit Stage: 1

Date Audit Completed: 23rd June 2021

	To Be Completed By Designer			To Be Completed by Audit Team Leader
Paragraph No. in Safety Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Describe alternative measure(s). Give reasons for not accepting recommended measure	Alternative measures or reasons accepted by auditors (yes/no)
2.1	YES	YES		
2.2	YES	YES		
2.3	YES	YES		
2.4	YES	YES		
2.5	YES	YES		

Signed: Liam MURPHY (Designer)Date: 24/06/2021Signed: Brian Loughrey (Audit Team Leader)

Date: 23/06/2021

Signed: _____ (Employer)

Date: _____