

2022

Stage 1/2 Road Safety Audit



Prepared by: J. de Klerk



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Stage 1/2 Road Safety Audit

Proposed Residential Development, Knocklyon Road, Dublin.

Document Control Sheet

| | |
|---------------------|--------------------------------|
| Client: | Pathway Homes |
| Document No: | 211090-ORS-XX-XX-RP-TR-13g-001 |
| Date: | 28/10/2022 |

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1. Introduction

This report documents the findings of a Stage 1/2 Road Safety Audit (RSA) carried out with respect to the proposed residential development in Knocklyon Road, Dublin.

The audit team conducted the site visit on Thursday the 9th of September 2021. The audit was carried out in the offices of ORS on Tuesday the 24th of October 2022.

The audit team comprised of the following people:

Audit Team Leader:

Adam Price BEng (Hons), CEng, MIEI

Audit Team Member:

Johannes de Klerk BEng, MIEI

During the site visit, the weather was partly cloudy and dry. The traffic levels were noted to be light across the audit period. The posted speed limit for Knocklyon road is 50kmh

The audit team reviewed the following documents and drawings provided by Vincent Hannon Architects:

- (1) 01_180201-2-100_Site_Plan
- (2) 02_180201-3-200_Type A House

Documents/information not supplied:

- (A) Traffic Count Data
- (B) Speed Survey
- (C) Departures from standards

The terms of reference/procedure for the Audit were as per the relevant sections of the **Transport Infrastructure Ireland Road Safety Audit Standard GE-STY-01024**. The audit examined only those issues within the design relating to the road safety implications of the scheme and has therefore not examined or verified the compliance of the designs to any other criteria. The Road Safety Audit should not be treated as a design check.

The problems identified and described in this report are considered by the Audit Team to require action to improve the safety of the development and minimise accident occurrence.

All comments, references and recommendations in this safety audit are in respect of the review of information supplied by Vincent Hannon Architects on behalf of Pathway Homes and subsequent site visit by the audit team.

2. Description of the Proposed Development

The proposal put forward by Vincent Hannon Architects is for 4No. semi-detached residential units on Knocklyon Road, Dublin. The proposed development will include a total of 4No. internal parking spaces for the 4 units.

Please refer to **Figure 2.1** below for the proposed scheme design layout.

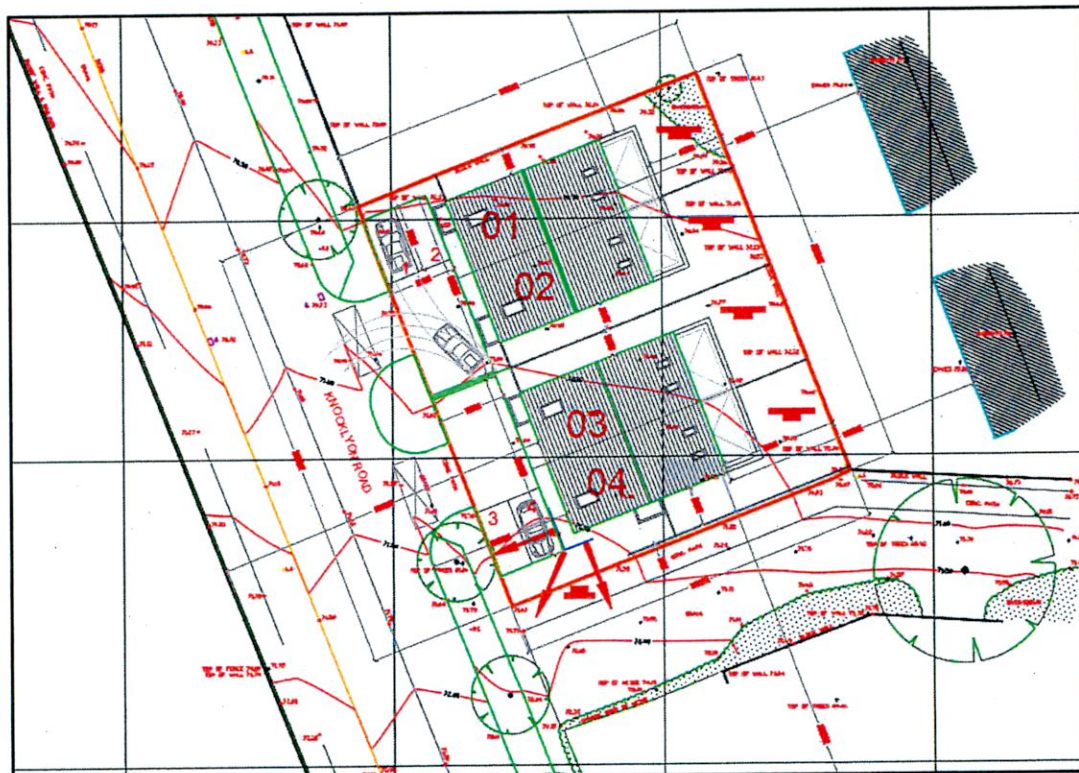


Figure 2.1: Site Plan Layout – (Source: Vincent Hannon Architects)

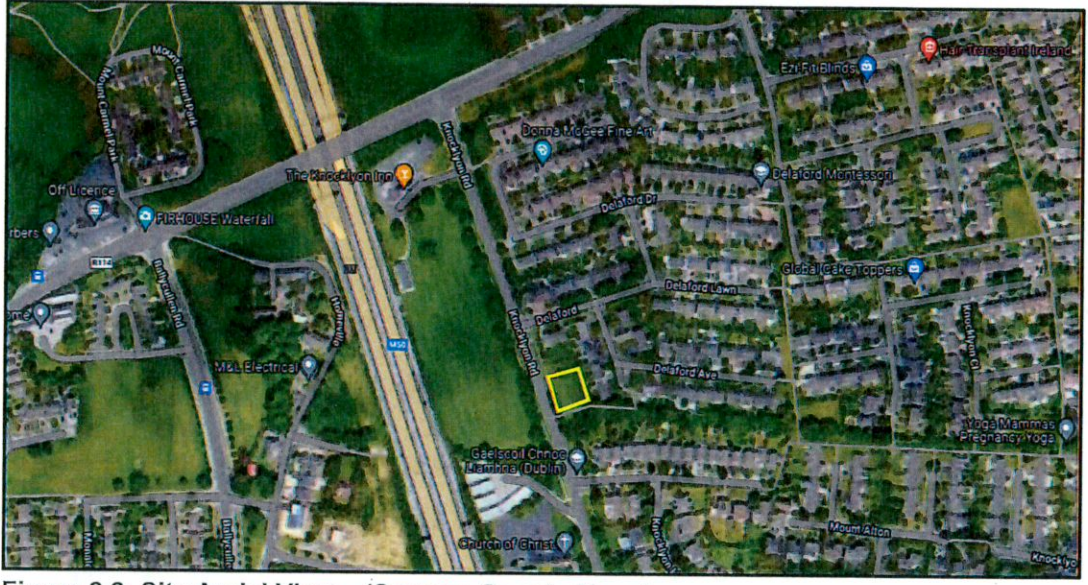


Figure 2.2: Site Aerial View – (Source: Google Maps)



Figure 2.3: Sightlines Southern Approach – (Source: ORS)



Figure 2.4: Sightlines Northern Approach – (Source: ORS)

3. Problems Raised from the Road Safety Audit

The following are problems and recommendations to address the safety issues associated with the proposed residential development at Knocklyon Road, Dublin.

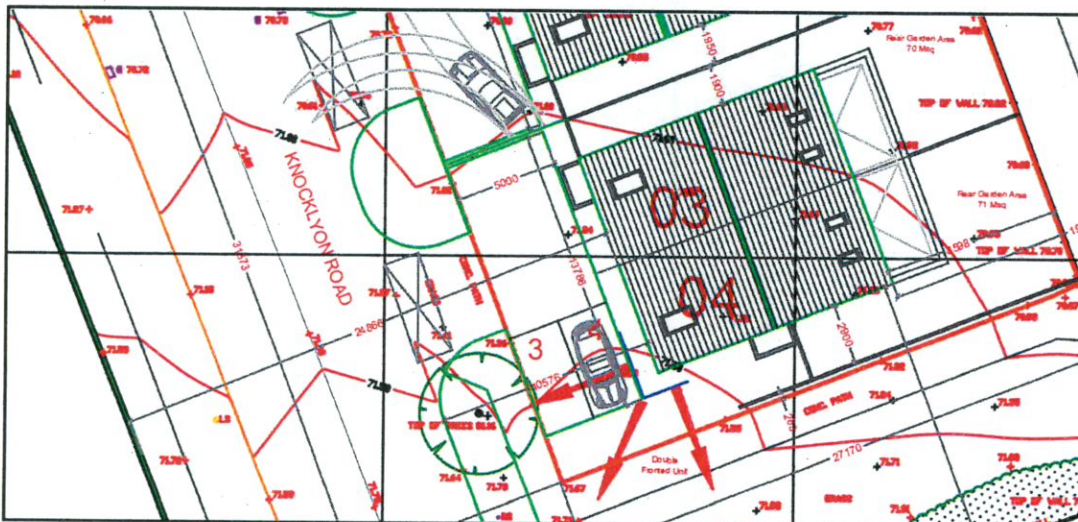
The recommendations are proposed to the designer of the scheme to reduce any safety risks associated with it.

3.1 Potential Problem Identified

Problem No.1: Sightlines

Location: Site Entrance/Exit

The audit team note from the design drawings that there are insufficient details provided in relation to sightlines, including the impact of proposed landscaping and existing vegetation at the entrances/exits. There is a potential safety risk to users of the development if trees, shrubs, or signage obstruct sightlines, potentially leading to side impact vehicle collisions.



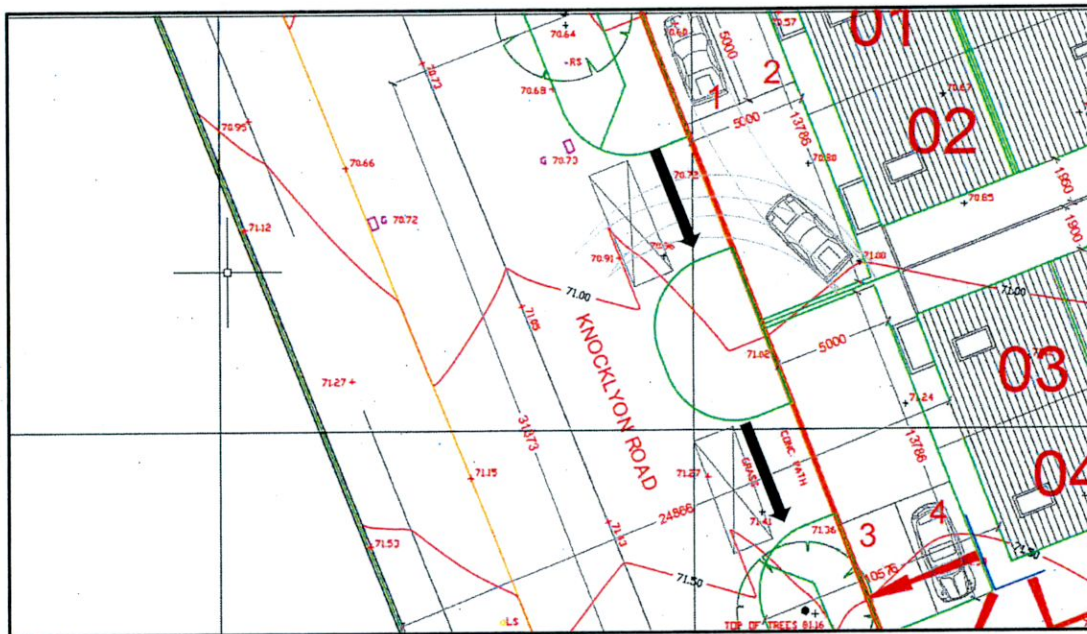
Recommendation:

The design team should ensure that landscaping does not impact on sightlines and visibility of pedestrians or vehicles within the site or at the accesses.

Problem No.2: Pedestrian Path Treatment

Location: Across Site Entrance/Exit

The audit team note from the drawings provided that it is unclear how the pedestrian concrete path will continue across the entrances of the development. It is unclear how pedestrian priority will be maintained at the driveway locations. Drivers may become confused as to priority of movement which could potentially result in vehicle-pedestrian conflict or an injury.



Recommendation:

The design team should specify that footpaths continue across the entrances locations to clearly indicate pedestrian priority at these locations.

Problem No 3: Public Lighting

Location: Proposed Development

The audit team note from the drawings provided that there are no details for relating to the treatment of existing public lighting in the vicinity of the site. Low light conditions may result in vehicles being unable to see pedestrians at the driveway crossing locations resulting in possible pedestrian-vehicle conflicts and injury.

Recommendation:

The design team should include additional details relating to the existing and proposed public lighting for the scheme.

Problem No.04: Drainage

Location: Proposed Development

The audit team note from the drawings provided that there is no provision for drainage channels/ gullies for the scheme detailed on the drawings. Inadequate gully positioning may lead to issues of ponding in areas of the development which poses a risk of slips, trips or falls to vulnerable road users.

Recommendation:

The design team should ensure that details and locations of all drainage gullies etc are provided for across the scheme and positioned strategically to avoid the risk of ponding.

Problem No.05: Existing Signage

Location: Proposed Development

The audit team note from the site visit that there is existing warning/regulatory signage in the vicinity of the site which is not detailed on the plans. The audit team are concerned as to how these signs will tie into the proposed scheme and if they will be relocated as part of the new access proposals.

Recommendation:

The design team should ensure that details and locations of all existing and proposed signage is detailed on the drawings and positioned so they do not create a hazard for vulnerable users or motorists.

4. Audit Team Statement

We certify that we have examined the drawings listed in Appendix A and examined the site by means of a site visit. This examination has been carried out with the sole purpose of identifying any features of the design that could be removed or modified to improve the safety of the scheme. The issues that we have identified have been noted in the report, together with suggestions for improvement, which we recommend should be studied for implementation.

Audit Team Leader: Adam Price: BEng (Hons), CEng, MIEI
ORS

Signed: 

Date: 28/10/2022

Audit Team Member: Johannes de Klerk: BEng, MIEI
ORS

Signed: 

Date: 28/10/2022



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Appendix A – Inspected Documentation

The audit team reviewed the following drawings and documents provided by Vincent Hannon Architects:

- (1) 01_180201-2100_Site_Plan
- (2) 02_180201-3-200_Type A House

Appendix B – Designer Response Form


Road Safety Audit Feedback Form

Job: Proposed Residential Development, Knocklyon Road, Dublin.

Stage of Audit: Stage 1/2

Date Audit Completed: 28/10/2022

| Problem Reference in Safety Audit Report | To Be Completed by the Designer | | | To Be Completed Audit Team Leader |
|--|---------------------------------|----------------------------------|---|--|
| | Problem Accepted (Yes/No) | Recommendation Accepted (Yes/No) | Alternative Option (Describe) (Only complete if recommendation not accepted) | Alternative Option Accepted by Auditors (Yes/No) |
| P1 | YRS | YRS | | |
| P2 | YRS | YRS | | |
| P3 | YRS | YRS | | |
| P4 | YRS | YRS | | |
| P5 | YRS | YRS | | |

Signed:  Designer

Date: 28/10/22

Signed:  Audit Team Leader

Date: 02/11/22

Signed:  Employer

Date: 02 NOV 22

