

Title: **STAGE 1 ROAD SAFETY AUDIT**

For;

Hillhouse, Lucan, Proposed Residential Development.

Client: **PMCE**

Date: **June 2022**

Report reference: **1495R01**

VERSION: **FINAL (30-7-2022)**

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1.0 Introduction

This report was prepared in response to a request from Mr. Aly Gleeson, PMCE Ltd, for a Stage 1 Road Safety Audit of the proposed residential development at Hillhouse, Lucan, Co. Dublin.

The Road Safety Audit Team comprised of;

Team Leader: **Norman Bruton**, BE CEng FIEI, Cert Comp RSA.

TII Auditor Approval no. NB 168446

Team Member: **Owen O'Reilly**, B.SC. Eng Dip Struct. Eng NCEA Civil Dip Civil. Eng CEng MIEI

TII Auditor Approval no. OO1291756

The Road Safety Audit comprised an examination of the drawings provided and a site visit by the Audit Team, together on the 9th of June 2022.

The weather at the time of the daytime site visit was dry and the road surface was wet.

This Stage 1 Road Safety Audit has been carried out in accordance with the requirements of TII Publication Number GE-STY-01024, dated December 2017.

The scheme has been examined and this report compiled in respect of the consideration of those matters that have an adverse effect on road safety. It has not been examined or verified for compliance with any other standards or criteria.

The problems identified in this report are considered to require action in order to improve the safety of the scheme for road users.

If any of the recommendations within this safety audit report are not accepted, a written response is required, stating reasons for non-acceptance. Comments made within the report under the heading of Observation are intended to be for information only. Written responses to Observations are not required.

A location map showing where each problem occurs is provided in **Appendix A**.

A list of the documents provided to the Audit Team is provided in **Appendix B**.

The feedback form completed by the Design Team Leader is provided in **Appendix C**.

2.0 Background

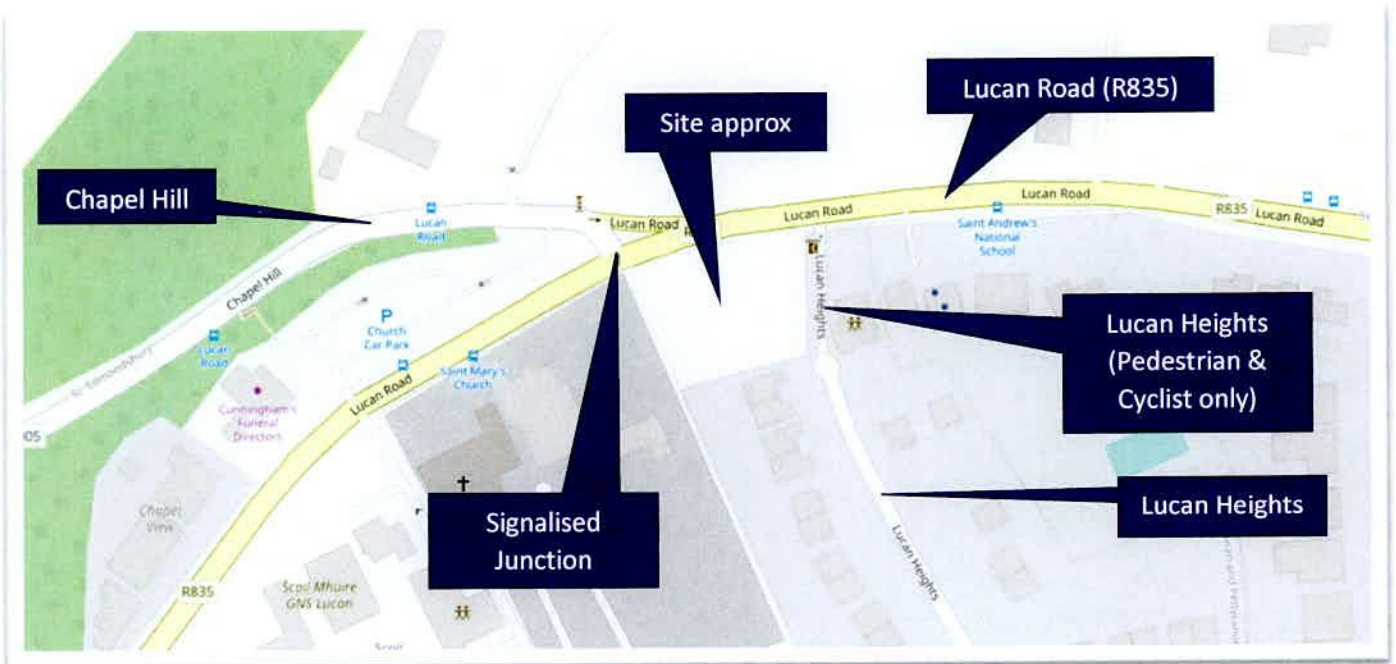
It is proposed to reconstruct a residential development at the existing Hillhouse site off the Lucan Road (R835) in Lucan, Co. Dublin.

Vehicular, pedestrian and cyclists access would be from Lucan Road via an upgraded priority junction which would include yellow box road markings on Lucan Road. It is not proposed to provide vehicular access onto Lucan Heights. Internal parking would be provided which would include 10 no. standard spaces and 1 no. disabled parking space.

A separate pedestrian only access is proposed onto Lucan Road.

The speed limit on Lucan Road is 50km/hr.

The site location is shown below.



Site location Plan. *(Image courtesy of openstreetmap.org)*

3.0 Issues Raised in This Road Safety Audit.

3.1 Problem

LOCATION

Drawing P22-026-DG-SP-001 S0, Rev 2.0 – Disabled Parking Space.

PROBLEM

It is unclear if there is sufficient space for a user of the disabled parking space to easily enter/exit the parking space given the proximity of the boundary walls. A lack of space could lead to material damage of vehicles.



RECOMMENDATION

It is recommended that a swept path analysis be carried out to ensure that sufficient space is available.

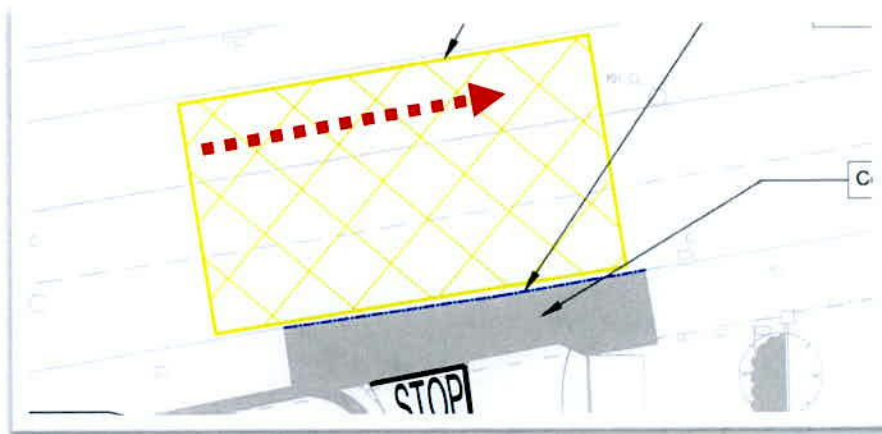
3.2 Problem

LOCATION

Drawing P22-026-DG-GA-001 S0, Rev 2.0 – Yellow Box.

PROBLEM

It is unclear if the proposed yellow box is required on the outbound lane from Lucan on the Lucan Road. If queues of traffic do not form in that direction drivers exiting the development during peak periods of inbound traffic may mistakenly think that they can turn right without checking for oncoming outbound traffic resulting in side-impact or rear-end collisions.



RECOMMENDATION

It is recommended that the Design Team confirms if outbound queuing takes place and if not, that the yellow box only be provided on the two inbound lanes.

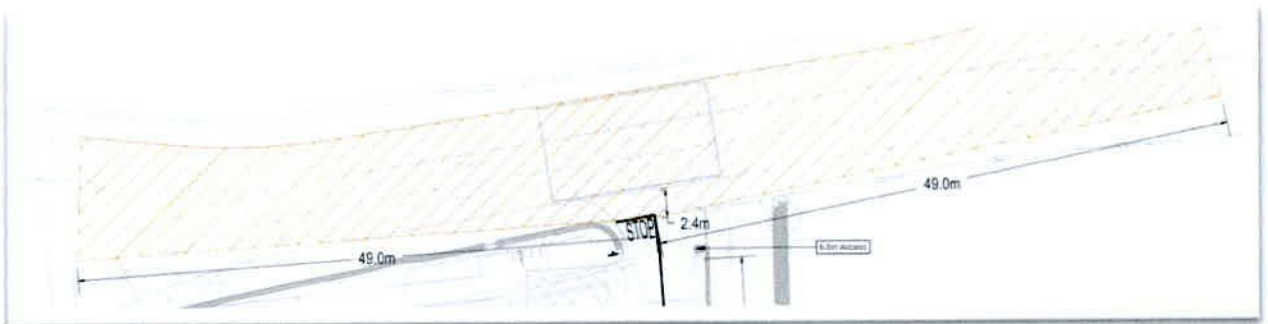
3.3 Problem

LOCATION

Drawing P22-026-DG-VE-001 S0, Rev 2.0 – Visibility Splays.

PROBLEM

The proposed visibility splay lines cut through both existing and proposed obstacles (vegetation, walls etc.). These obstacles will obstruct visibility for drivers exiting the development and could lead to side-impact or rear-end collisions.



RECOMMENDATION

It is recommended that the visibility splays be kept clear of obstacles except for those that are momentary obstructions both individually and cumulatively.

STAGE 1 RSA - HILLHOUSE, LUCAN
PMCE

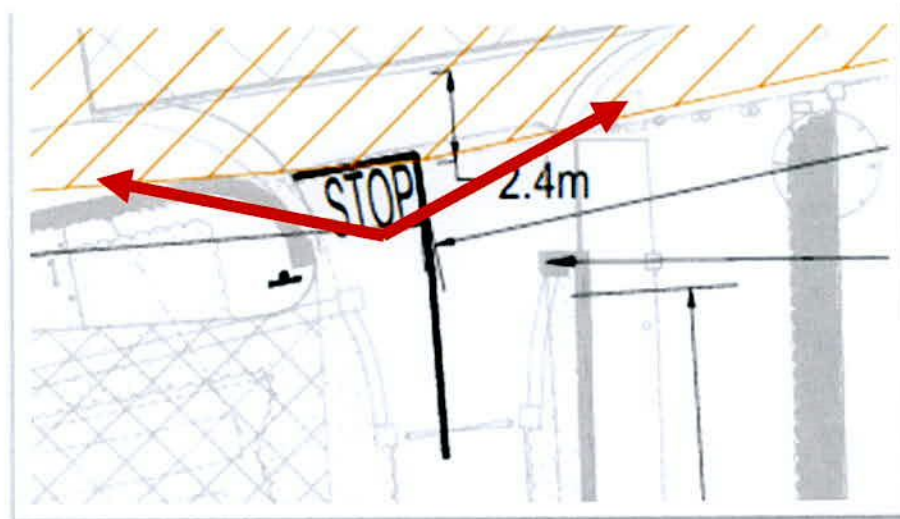
3.4 Problem

LOCATION

Drawing P22-026-DG-VE-001 S0, Rev 2.0 – Visibility Splays.

PROBLEM

The proposed visibility for exiting drivers to crossing pedestrians on the footpath is not clear. The proposed boundary treatment may be high enough to block visibility to crossing children which could result in collisions with those pedestrians.



RECOMMENDATION

It is recommended that low boundary treatment be provided such that suitable inter-visibility is provided between exiting drivers and crossing pedestrians including small children.

3.5 Problem

LOCATION

Drawing P22-026-DG-VE-001 S0, Rev 2.0 – Bin Storage.

PROBLEM

The swept path for the refuse truck has been shown however it is unclear where the bin storage area is to be located. Without a suitable storage area bin left for collection could be hazards for pedestrians especially the mobility impaired.

RECOMMENDATION

It is recommended that bin be located where they are not a hazard for pedestrians.

4.0 Audit Statement

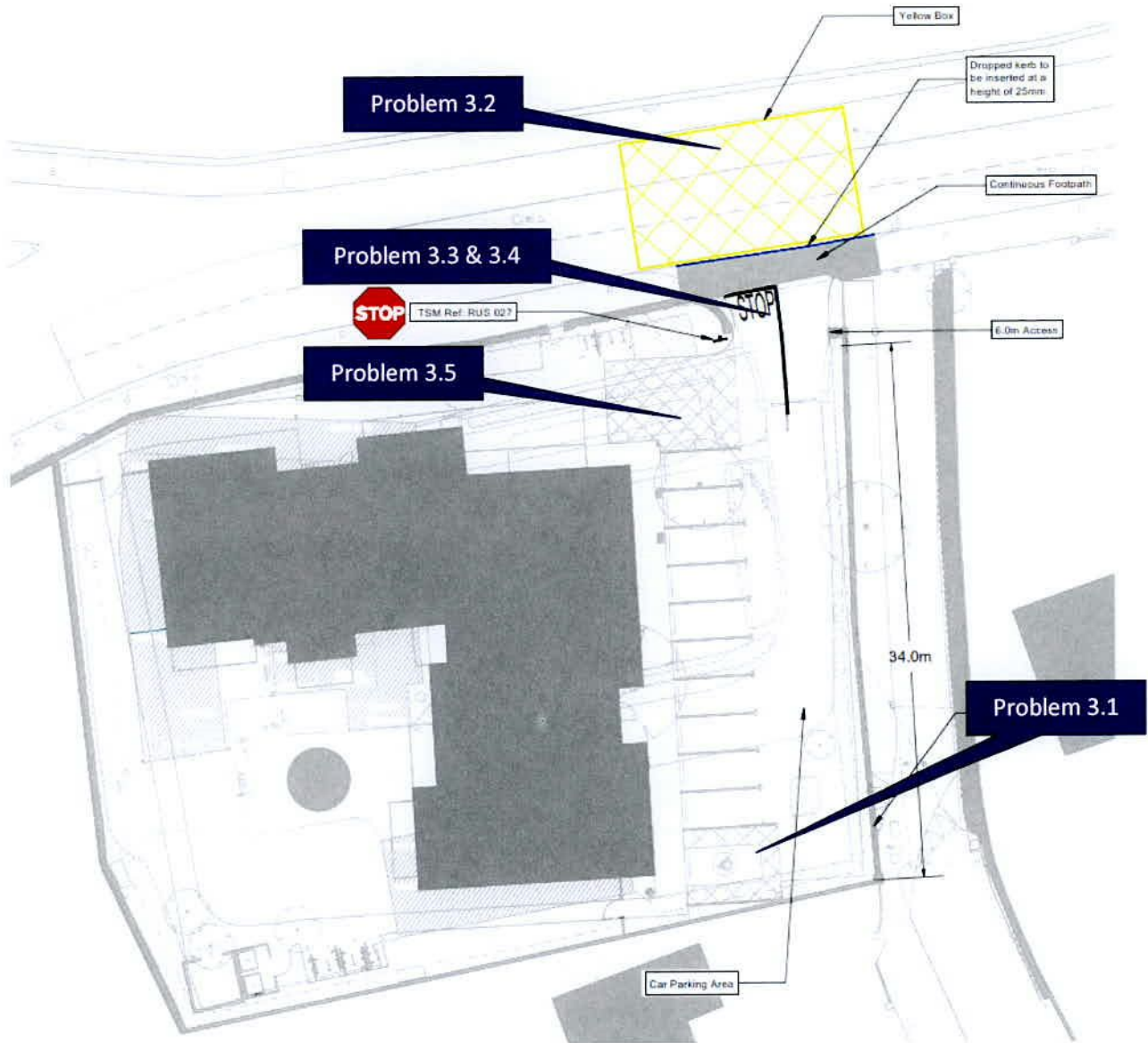
We certify that we have examined the site and information provided. The examination has been carried out with the sole purpose of identifying any aspects of the design which could be added, removed or modified in order to improve the safety of the scheme.

The problems identified have been noted in this report together with associated safety improvement suggestions which we would recommend should be studied for implementation. The audit has been carried out by the persons named below who have not been involved in any design work on this scheme as a member of the Design Team.

Norman Bruton Signed: *Norman Bruton*
(Audit Team Leader) Dated: 30/7/2022

Owen O'Reilly Signed: *Owen O'Reilly*
(Audit Team Member) Dated: 30/7/2022

Appendix A – Problem Location Map



Appendix B

Information Supplied to the Audit Team

- Drawing P22-026-DG-GA-001 S0, Rev 2.0
- Drawing P22-026-DG-SP-001 S0, Rev 2.0
- Drawing P22-026-DG-VE-001 S0, Rev 2.0

Background Information Supplied

- Audit Brief.

Appendix C


Feedback Form

ROAD SAFETY AUDIT FORM – FEEDBACK ON AUDIT REPORT

Scheme: Hillhouse Lucan

Stage: Stage 1 Road Safety Audit

Date Audit (Site Visit) Completed: 09-06-2022

Paragraph No. in Quality Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measures (describe)	Alternative measures accepted by Auditors (Yes/No)
3.1	Yes	Yes		
3.2	Yes	Yes		
3.3	Yes	Yes		
3.4	Yes	No	<p>Attached below is an image of the (horizontal) railings proposed at the entrance for increased visibility. The Design team believe this will maintain adequate inter-visibility at the access.</p> 	Yes
3.5	Yes	Yes		

Signed.....

 Highway Design Team Leader

Date: 28th July 2022

Signed...

 Audit Team Leader

Date 28-7-2022

Signed.....

 Employer/Developer

Date: 28th July 2022