20096-03-001

**Proposed Residential Development** at Finlay Park, Nass, Co. Kildare

**ROAD SAFETY AUDIT STAGE 1/2** 

November 2022



CONSULTING

7, Ormonde Road Kilkenny R95 N4FE

Tel: 056 7795800 info@roadplan.ie

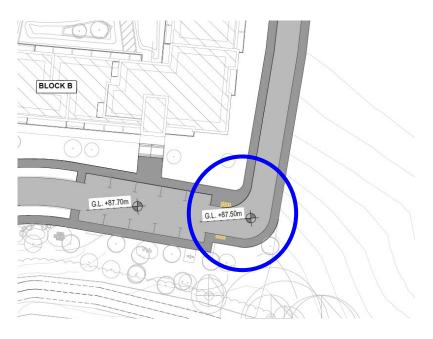
#### 1. INTRODUCTION

- 1.1 This report describes a Stage 1 / 2 Road Safety Audit carried out at Finlay Park, Nass, Co. Kildare on behalf of Westar Homes Ltd. The audit was carried out on the 14<sup>th</sup> October 2022 in the offices of Roadplan Consulting, Kilkenny.
- 1.2 The audit team members were as follows:
  - George Frisby, BE CEng MIEI
     Auditor Number GF51255
  - Richard Frisby, BSc AEng MIEI.
     Auditor Number RF13337391
- 1.3 Both audit team members visited the site on the 11<sup>th</sup> of October 2022. The audit comprised an examination of the drawings relating to the scheme supplied by Donnachadh O'Brien & Associates Consulting Engineers and an examination of the site.
- 1.4 The speed limit of road at the site entrance is 30 km/h.
- 1.5 This Stage 1 / 2 Audit has been carried out in accordance with the relevant sections of TII GE-STY-01024. The team has 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 design to any other criteria.
- 1.6 All problems described in this report are considered by the audit team to require action in order to improve the safety of the scheme and minimise accident occurrence.
- 1.7 Appendix A describes the audited drawings.

#### 2. STAGE 1 / 2 AUDIT

#### 2.1 Problem

There is a low radius bend proposed along the development access road. Two opposing vehicles may have difficulty in passing one another on this bend which may lead to a side swipe collision. In addition, stopping sight distance at the bend may be restricted by the proposed parking on the inside of the bend.



#### Recommendation

Revise the layout at the bend to ensure that two vehicles can safely pass one another, and that adequate stopping sight distance is provided.

#### 2.2 Problem

A number of uncontrolled pedestrian crossing locations are proposed throughout the development. However, it is unclear whether adequate inter-visibility is provided between drivers of vehicles approaching the pedestrian crossings and pedestrians stopped waiting to cross at the pedestrian crossings. Obstructions to visibility may include parked vehicles adjacent to the pedestrian crossings.

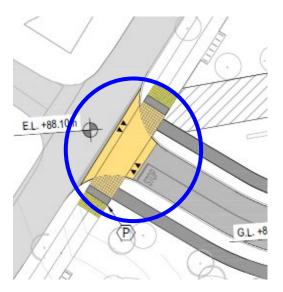


#### Recommendation

Adequate inter-visibility should be provided between drivers of vehicles approaching the pedestrian crossings and pedestrians stopped waiting to cross at all the pedestrian crossings.

#### 2.3 **Problem**

At the exit from the development the stop line is located to the back of the proposed footpath / cyclepath. Drivers of vehicles stopping at this location may not have adequate visibility of approaching vehicles on Finlay Park access road. If a driver advances from the stop line and exit the development without checking again for oncoming vehicles on Finlay Park access road, then this may lead to a side impact collision at the exit.



#### Recommendation

Ensure adequate visibility splays are provided at the access from the proposed stop line or advance the stop line to the edge of Finlay Park access road.

#### 2.4 **Problem**

The proposed underground car park is shown to operate as a one-way system. However, at the end of the aisles adequate markings and signage are not shown to be provided to inform drivers of vehicles of the one-way system, in particular at the entrance to the underground car park which may result in a collision at these locations.



#### Recommendation

Provide adequate road markings and signage to inform drivers of the one-way circulating system within the underground car park.

#### 2.5 **Problem**

Throughout the basement carpark visibility at the internal junctions may be restricted by vehicles parked in parking spaces adjacent to the junction. A lack of adequate visibility splays at the junctions may contribute to a side impact collision in the carpark.

#### Recommendation

Provide adequate visibility splays at all the internal junctions throughout the basement carpark.

#### 2.6 Problem

Street lighting exists along the public road. However, street lighting is not shown to be provided within the proposed development. Road safety would be enhanced with the provision of street lighting.

#### Recommendation

Provide adequate street lighting within the proposed development.

#### 2.7 Problem

Pedestrian walkways are not shown to be provided within the basement carpark. Road safety would be increased by the provision of marked pedestrian walkways within the basement carpark.

#### Recommendation

Provide marked pedestrian walkways within the basement carpark.

#### 3. **AUDIT TEAM STATEMENT**

We certify that we have examined the drawings listed in Appendix A and 3.1 have inspected the site. This examination has been carried out with the sole purpose of identifying any features of the scheme that could be removed or modified to improve the safety of the scheme.

Signed	George Frisby
Date14 <sup>th</sup> October 2022	
Signed	Richard Frisby

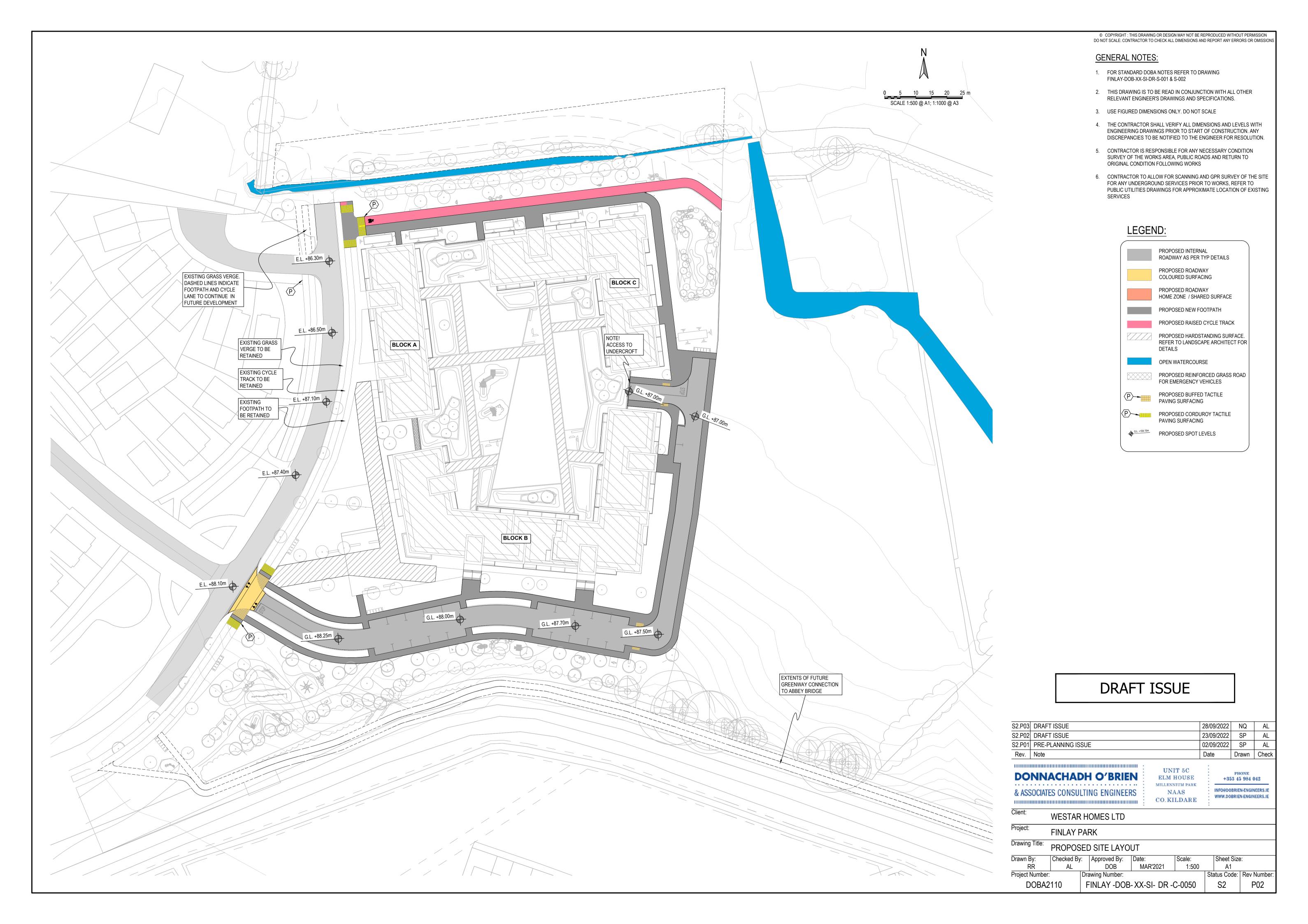
Date ......14<sup>th</sup> October 2022......

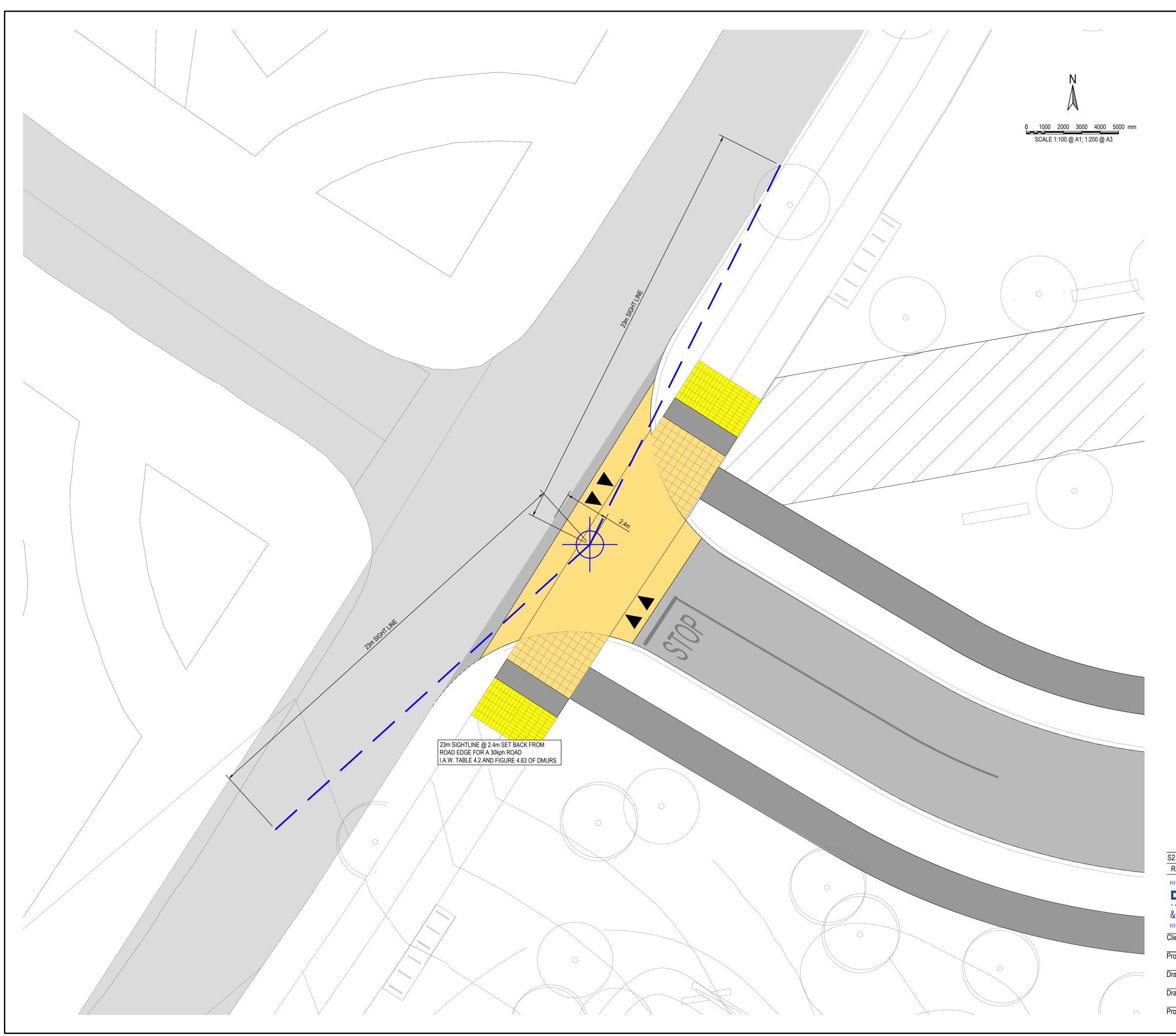
#### **APPENDIX A**

### **List of Drawings Examined**

The following drawings have been provided electronically in PDF format by Donnachadh O'Brien & Associates Consulting Engineers:

Drawing number	Rev	Drawing title
FINLAY-DOB-XX-SI-DR-C-0050	P02	Proposed Site Layout
FINLAY-DOB-XX-SI-DR-C-0055	P02	Proposed Site Lines Layout
FINLAY-DOB-XX-SI-DR-C-0060	P02	Proposed Road Markings Layout
PE17019-CWO-01-00-DR-A-2000	P05	Zone 1 - Podium Carparking
PE17019-CWO-01-00-DR-A-A0111	P07	Proposed Site Layout - A



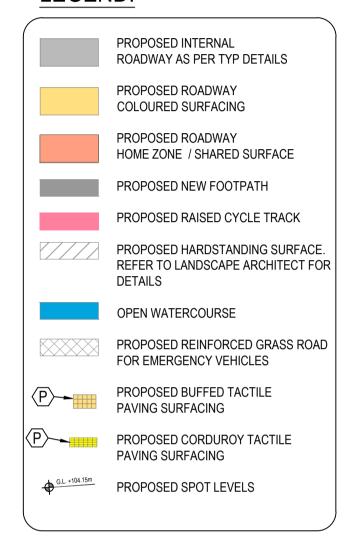


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### **GENERAL NOTES:**

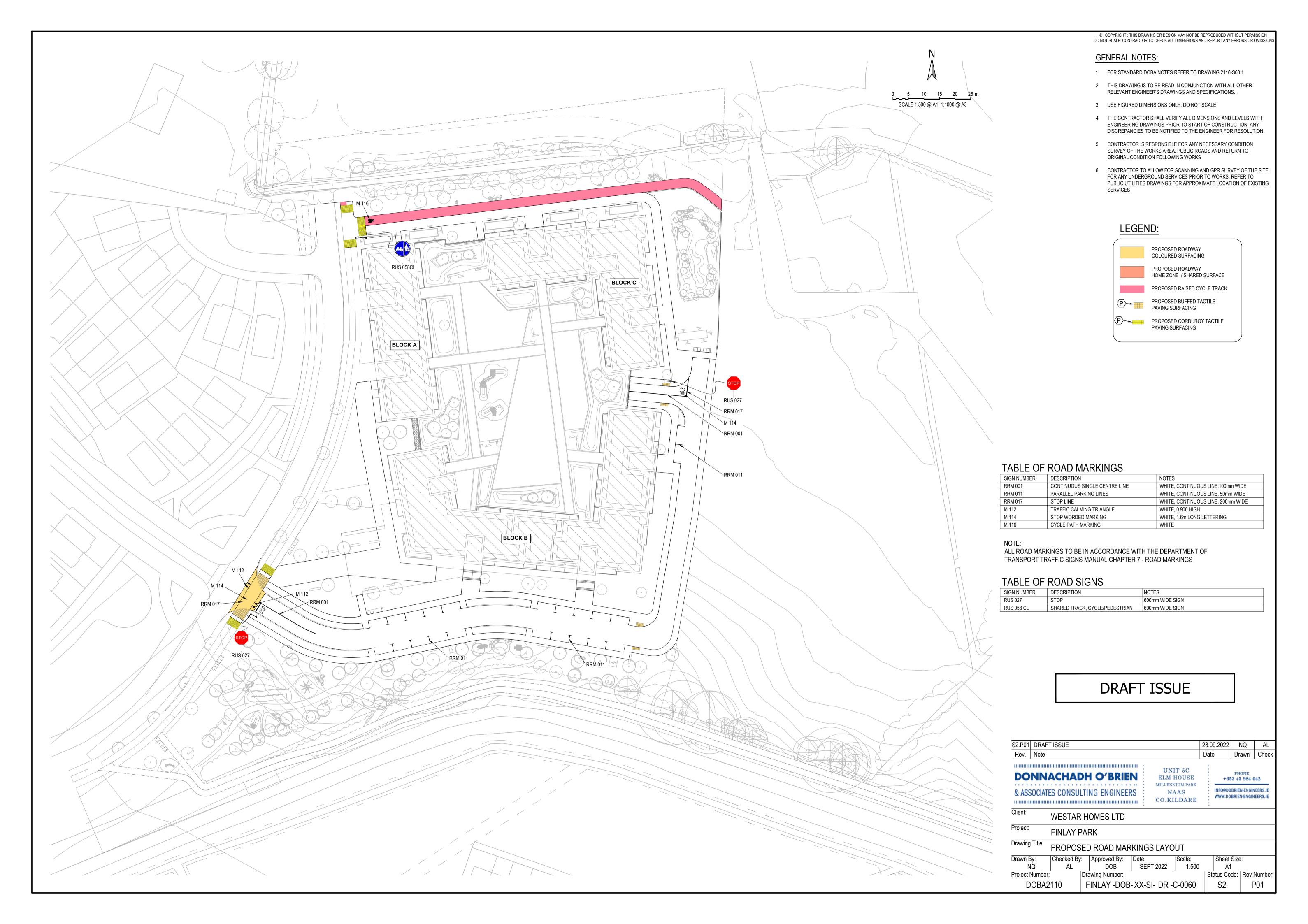
- 1. FOR STANDARD DOBA NOTES REFER TO DRAWING 2110-S00.1
- 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEER'S DRAWINGS AND SPECIFICATIONS.
- 3. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS WITH ENGINEERING DRAWINGS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER FOR RESOLUTION.
- 5. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY CONDITION SURVEY OF THE WORKS AREA, PUBLIC ROADS AND RETURN TO ORIGINAL CONDITION FOLLOWING WORKS
- 6. CONTRACTOR TO ALLOW FOR SCANNING AND GPR SURVEY OF THE SITE FOR ANY UNDERGROUND SERVICES PRIOR TO WORKS, REFER TO PUBLIC UTILITIES DRAWINGS FOR APPROXIMATE LOCATION OF EXISTING SERVICES

## LEGEND:



# DRAFT ISSUE

S2.P01	DRAF	TISSUE						28.0	9.2022	NQ	AL
Rev.	Note							Date	Э	Drawr	Check
DO	NN	ACHAI	Н	I <b>O'BRIE</b> I NG ENGINEER	N	ELM I	IT 5C HOUSE NIUM PARK AAS LDARE		INFO@DO		
Client:		WESTAR	Н	OMES LTD							
Project:		FINLAY F	PAF	RK							
Drawing	Drawing Title: PROPOSED SIGHT LINES LAYOUT										
Drawn B N	By: Q	Checked By AL	:	Approved By: DOB	Date: SEP	T 2022	Scale: 1:100		Sheet A1		
					v Number: P01						





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## **DESIGN INTENT DRAWING**



Finlay Park, Naas, Co. Kildare - Ap	partment Block Car & E	Bicycle Parkir	ng Schedule
Residents - CarParking Schedule		Quantity	
Unit Description	No. of Units	Spaces x Unit	Proposed No Spaces
Duplex Apartments	70	1.20	85
Apartments	78	1.20	94
Total	148		179
Visitors/Commercial		_ [	22
Grand Total		[	201
Cycle Parking Schedule	Quantity		
Unit Description	N.o of Units	Spaces x Unit	Total
Duplex Apartments	70	1	72
Apartments	78	1	80
Total	148		152
Visitors/Commercial space			
Visitors	148	0.5	74
Commercial space (m2)	247.6	0.05	12
Total			86
Grand Total			238



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MANUFACTURE OR CONSTRUCTION WORK.

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## **DESIGN INTENT DRAWING**

### FOR INFORMATION PURPOSES

### LEGEND:

SITE OUTLINED IN RED SITE AREA=31,775.02 m<sup>2</sup>/3.17 H.A (EXCLUDING ADDITIONAL AREA REQUIRED TO FACILITATE UPGRADE OF WATER SERVICES)

SITE AREA=34,052.47 m<sup>2</sup>/ 3.40 H.A (INCLUDING ADDITIONAL AREA REQUIRED TO FACILITATE UPGRADE OF WATER SERVICES)

LAND OWNERSHIP EXTENDS BEYOND RAWING. FUTURE DEVELOPMENT

APARTMENT BLOCKS

WATERSPORT HUB

 
 P07
 30/09/2022
 FrozenPlanning Issue

 P06
 27/09/2022
 draftIssue
 16/09/2022 Draft Issue for Planning 02/09/2022 Draft Issue



PLANNING

Westar Homes Limite

Finlay Park

A1 As VM indicated PE17019 A0111 P07

File Name PE17019-CWO-01-ZZ-DR-A-A0111

S2-Suitable for information



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#### SAFETY AUDIT FEEDBACK FORM

Scheme: Proposed Residential Development at Finlay Park, Naas, Co. Kildare

**Document Number: 20096-03-001** 

Audit Stage: Stage 1 / 2 RSA

**Date Audit Completed:** 14<sup>th</sup> October 2022

Paragraph No. in		To Be Completed by Audit Team Leader		
Safety Audit Report	Problem accepted (yes/no)  Recommended measure accepted (yes/no)		Describe alternative measure(s). Give reasons for not accepting recommended measure. Only complete if recommended measure is not accepted.	Alternative measures or reasons accepted by auditors (yes/no)
2.1	Yes	Yes	An Autotrack analysis has been carried out to ensure that two 4x4 vehicles can safely pass around the bend. 1 parking space has been removed at the southeast corner of the site, in order to provide adequate stopping sight distance.	
2.2	Yes	Yes	1 parking space has been removed at the southeast corner of the site, in order to provide adequate stopping sight distance around the bend. The location at the car parking garage will have very low speeds (<10kph) and infrequent use by pedestrians, as this is the back side of the apartment building. We are satisfied with the visibility in this location.	
2.3	Yes	Yes	In the proposed layout cyclists and pedestrians have the priority, which is in accordance with DMURS Section 4.4.5. A visibility splay from the stop line has been added to drawing C-055 and we are satisfied that adequate visibility splays are provided.	
2.4	Yes	Yes	NO ENTRY road markings have been added accordingly within the underground car park and a left-turn only sign has been added at the entrance to the underground car park.	
2.5	Yes	Yes	Since this is a private car park with a one-way system and low speeds (5kph), we feel this is a typical car park design. The car parking will be used by residents with dedicated spaces who will be familiar with the layout. As the designer, we are satisfied that adequate visibility splays are available.	
2.6	Yes	Yes	Street lighting has been added within the development along the road south and east of the apartment building.	
2.7	Yes	Yes	Private car park roads are essentially a shared surface, pedestrian walkways have been added to the road markings as part of a shared surface.	

Safety Audit

Signed off

Design Team Leader

Print Name Alan Lambe

Date 4<sup>th</sup> November 2022

Safety Audit Signed off Print Name DATAICH HONBAL

Date 16/11/22

Safety Audit

Signed off ..... Audit Team Leader

Print Name .....GEORGE FRISBY...... Date .....9/11/22.....

Please complete and return to:

Roadplan Consulting Ltd. 7, Ormonde Road

Kilkenny E-mail: info@roadplan.ie