



Comhairle Cathrach
& Contae **Luimnigh**

Limerick City
& County Council



CLANDILLON
CIVIL CONSULTING

ROS MOR ROUNDABOUT

Part 8 Planning Report

RMR-CCC-PD-XX-RP-C-0001

Client: Limerick City and County
Council
Date: 20/06/22

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Issue and revision record

Date	Rev	Change Description	Author	Checker	Approver
16/05/22	P00	First Issue	Senan Clandillon	Ria Baker	Heather Scully
18/05/22	P01	Client comments addressed	Senan Clandillon	Ria Baker	Heather Scully
15/06/22	P02	Final version / minor edits	Senan Clandillon	Ria Baker	Ria Baker
20/06/22	P03	Policy additions / minor edits	Senan Clandillon	Ria Baker	Heather Scully

Detailed Change Log

Rev	Change Description
P01	Speed limit information added
P02	Final version / minor edits
P03	Policy additions / minor edits

1. Introduction

Limerick City and County Council appointed Clandillon Civil Consultants to design a new Roundabout at the entrance to the Ros Mór housing estate on the Old Cork Road in Limerick City. The roundabout is to be designed to be of sufficient size to accommodate the turning movements of a bus, and a new bus stop on the Limerick side also forms part of the scheme. The roundabout is required to expand the bus service to this location, as required under local policy (refer to **Section 1.1**). A further study was required to be undertaken to provide a preferred option for upgrading the existing cycle lane infrastructure from the new roundabout to the Kilmallock Roundabout on the Childers Road (**Figure 1**).

1.1 Policy

The Limerick-Shannon Metropolitan Area Transport Strategy 2040 (LSMATS or the 'Strategy') has been developed by the National Transport Authority in collaboration with Limerick City and County Council, Clare County Council and Transport Infrastructure Ireland (TII).

The National Planning Framework 2040 (NPF) envisages that the Limerick-Shannon Metropolitan Area (LSMA) will become the growth engine of the Mid-West Region with projected growth of at least 50% during the period up to 2040. This projected population, employment and education growth brings with it opportunities for the development of the LSMA.

The Strategy's strategic transport objectives include;

- 1) To provide a high level of public transport connectivity to key destinations; and
- 2) To deliver a fully accessible and inclusive transport system.

The Strategy aligns with the following policies and plans;

- National Planning Framework 2040;
- National Climate Action Plan 2019;
- National Development Plan 2018-2027;
- National Cycle Policy Framework 2009-2020;
- National Investment Framework for Transport in Ireland 2021;
- Sustainable Mobility Policy 2022;
- A Sustainable Transport Future – Smarter Travel;
- Design Manual for Urban Roads and Streets;
- Regional Spatial and Economic Strategy for the Southern Region; and
- County and City Development Plans and Local Area Plan.

2. Site Location

Ros Mór is a residential suburb to the east of Limerick City centre. The proposed scheme covers the length of the R512 Old Cork Road from Ros Mór to the Willows housing estate. The existing road is characterised by agricultural lands to the south and residential development with some commercial properties to the north.

The site is located on the R512 on the Old Cork Road to the East of Limerick city. Limerick City Bus Services are being extended out the R512 to provide services to the Ros Mór Estate. To accommodate this, a suitable bus turn around is required to facilitate this service, which would also incorporate a bus stop and cycleway extension. The existing speed limit is 60km/h.

Figure 1: Scheme Location



3. Project Description

The overall length of the scheme is approximately 400m. The works will include road widening, rededication of the road space to provide new footpath construction, new cycle facility construction, new road lighting, new boundary treatments, accommodation works, traffic calming measures, shared surfaces, new road markings, upgraded road signage, services diversions as required, new surface water drainage system, and all ancillary works necessary for completion. Posted speed limit will be 60km/h.

4. Description of the Works

The project comprises:

- A new three-arm roundabout comprising raised traffic islands and a central island with ICD 24m on the R512 Old Cork Road to provide a connection to the Ros Mór estate.
- An off-road shared pedestrian / cycle facility 3.0m wide along the northern side of the R512 (west of the proposed roundabout) to connect the Ros Mór estate to the existing footway at the Willows housing estate.
- An off-road pedestrian facility 2.0m wide along the northern side of the R512 (east of the proposed roundabout) to connect the Ros Mór estate and tie into the existing footway.
- A new concrete retaining wall to maintain new earthworks within available lands.
- A new bus stop and shelter at the north side of the R512 to the west of the new roundabout.
- A consistent 6.2m wide carriageway west of the new roundabout and a 6.5m carriageway east of the new roundabout.
- The road alignment will be altered and realigned, improving it to provide DMURS standard minimum horizontal and vertical radii curves.
- A new surface water drainage system for part of the project.
- Resurfacing of the existing carriageway is to comprise of planing and overlay of the existing road with minimum 40mm to 250mm maximum of Asphaltic concrete (bituminous layers).
- Existing roadside boundaries are to be set back to accommodate road widening and new shared surfaces. This space will be formed of standard 100mm – 150mm concrete footpath on 150mm

Cl.804 sub base. The shared surfaces are likely to be constructed of 100mm surface course macadam on Cl.804.

- Existing trees and hedgerows that are to be removed as part of the works will be replaced by similar native variety semi-mature trees and hedging.

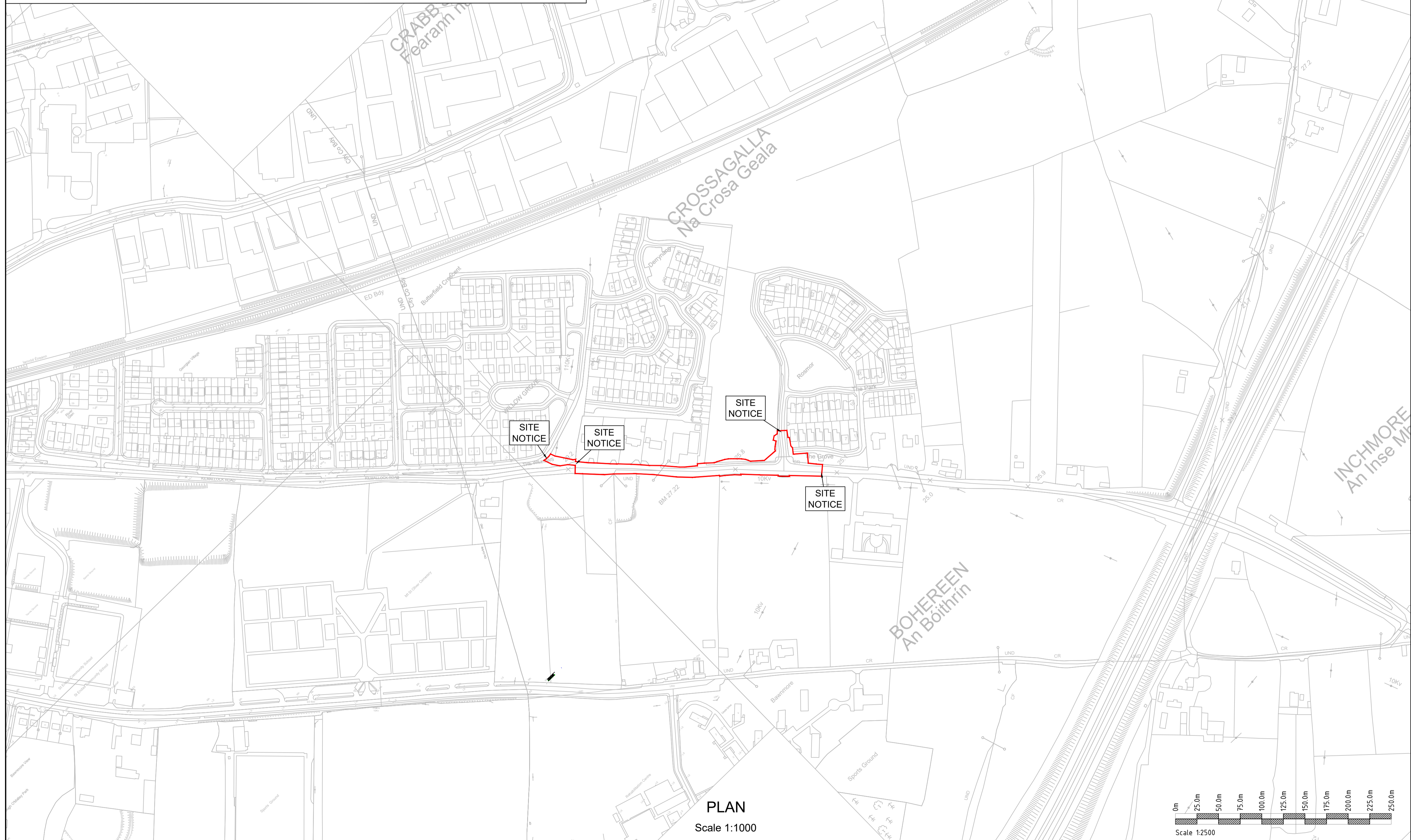
The proposed works are shown in drawings RMR-CCC-PD-XX-DR-C-0001, RMR-CCC-PD-XX-DR-C-0101, RMR-CCC-PD-XX-DR-C-0201 and RMR-CCC-PD-SGW-SK-C-0101 in **Appendix A**.



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APPENDIX A - PART 8 DRAWINGS

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 3. Co-ordinate system used is Irish Transverse Mercator.

LEGEND

— SCHEME EXTENT

REV	DATE	DESCRIPTION	BY	CHK	APD
P02	16/06/2022	SCALE UPDATED		KK	RB SC
P01	05/05/2022	PART 8 PLANNING		KK	RB SC

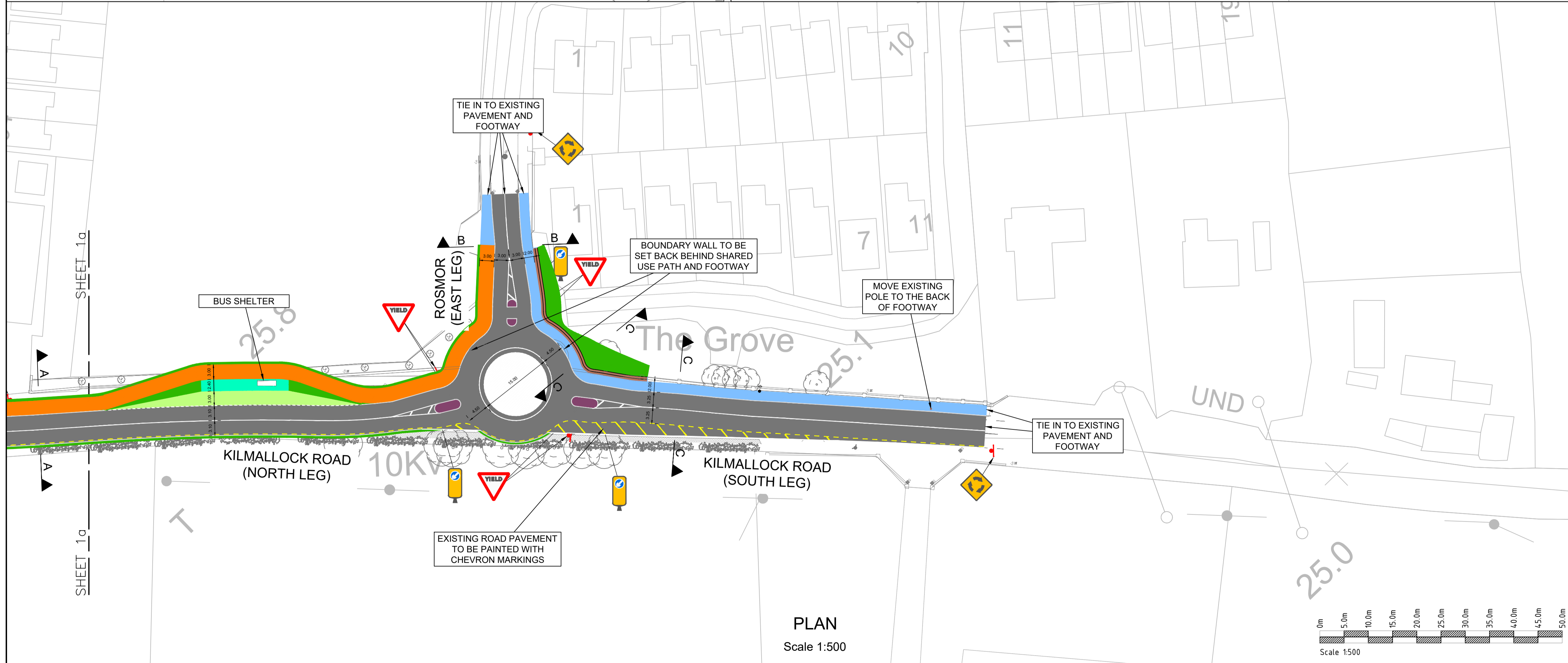
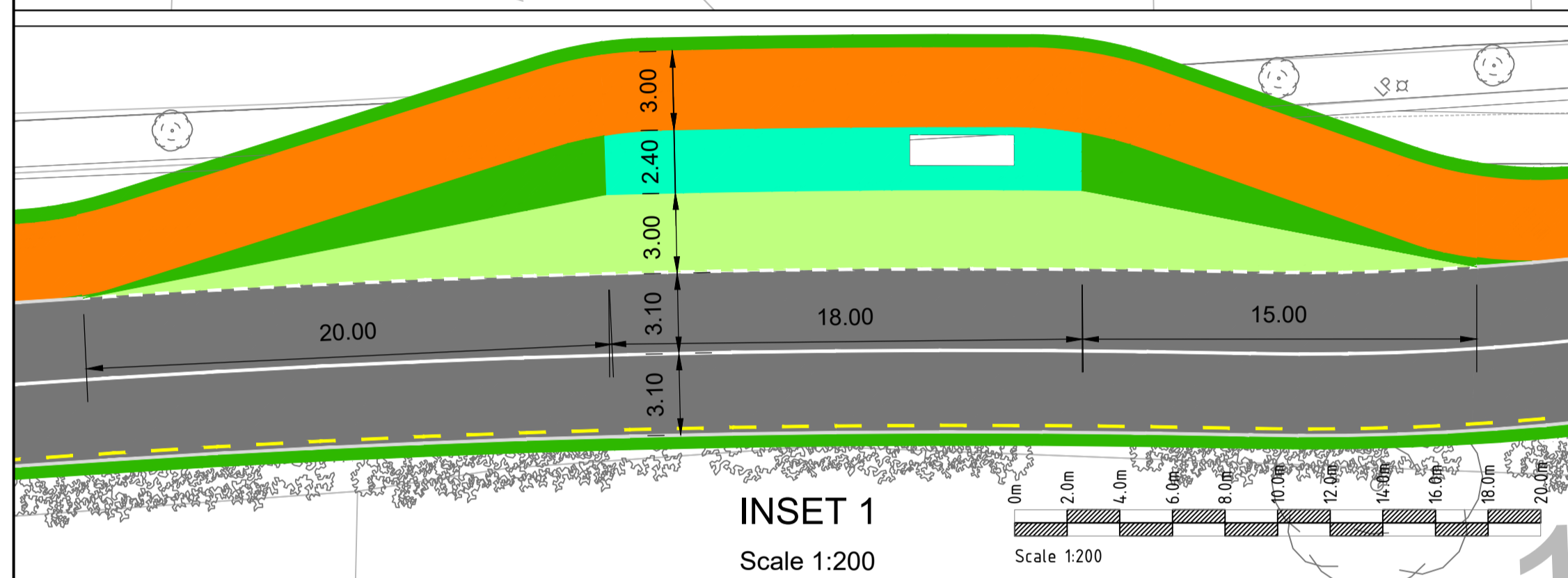
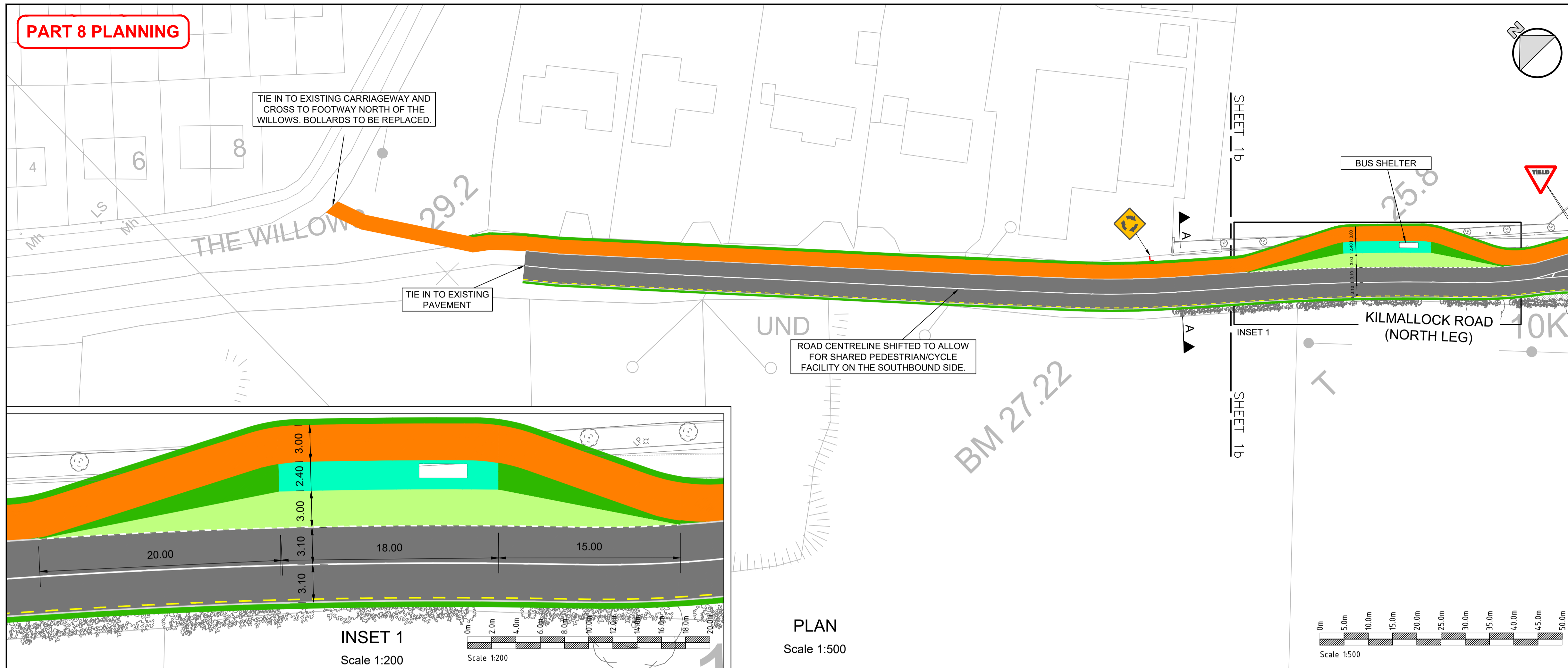


PROJECT
 ROS MÓR, OLD CORK ROAD
 BUS STOP & ROUNDABOUT DESIGN

DRAWING TITLE
 SITE LOCATION PLAN

DESIGNED	DRAWN	CHECKED/APPROVED
RB	KK	SC
DATE	SCALE	SHEET SIZE
03/05/2022	1:2500	A1
DRAWING NUMBER	REVISION	
RMR-CCC-PD-XX-DR-C-0001	P02	

PART 8 PLANNING



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 3. Co-ordinate system used is Irish Transverse Mercator.
 4. For section details, refer to RMR-CCC-PD-ZZ-DR-C-0201.
 5. For bus stop layout, refer to NCM Section 5.1.

- LEGEND**
- PROPOSED ROAD CENTRELINE
 - PROPOSED ROAD EDGE
 - PROPOSED 3.0m SHARED PEDESTRIAN / CYCLE FACILITY
 - PROPOSED 2.0m FOOTWAY
 - PROPOSED 0.5m GRASSED VERGE / LATERAL CLEARANCE
 - PROPOSED BUS STOP
 - PROPOSED PAVED EXTENT
 - PROPOSED PAVED ISLAND
 - PROPOSED PAVED BOARDING STRIP
 - PROPOSED RC RETAINING WALL
 - SECTION LOCATION

REV	DATE	DESCRIPTION	BY	CHK	APD
P02	17/05/2022	PART 8 PLANNING	MV	RB	SC
P01	05/05/2022	PART 8 PLANNING	MV	RB	SC



PROJECT
ROS MÓR, OLD CORK ROAD
BUS STOP & ROUNDABOUT DESIGN

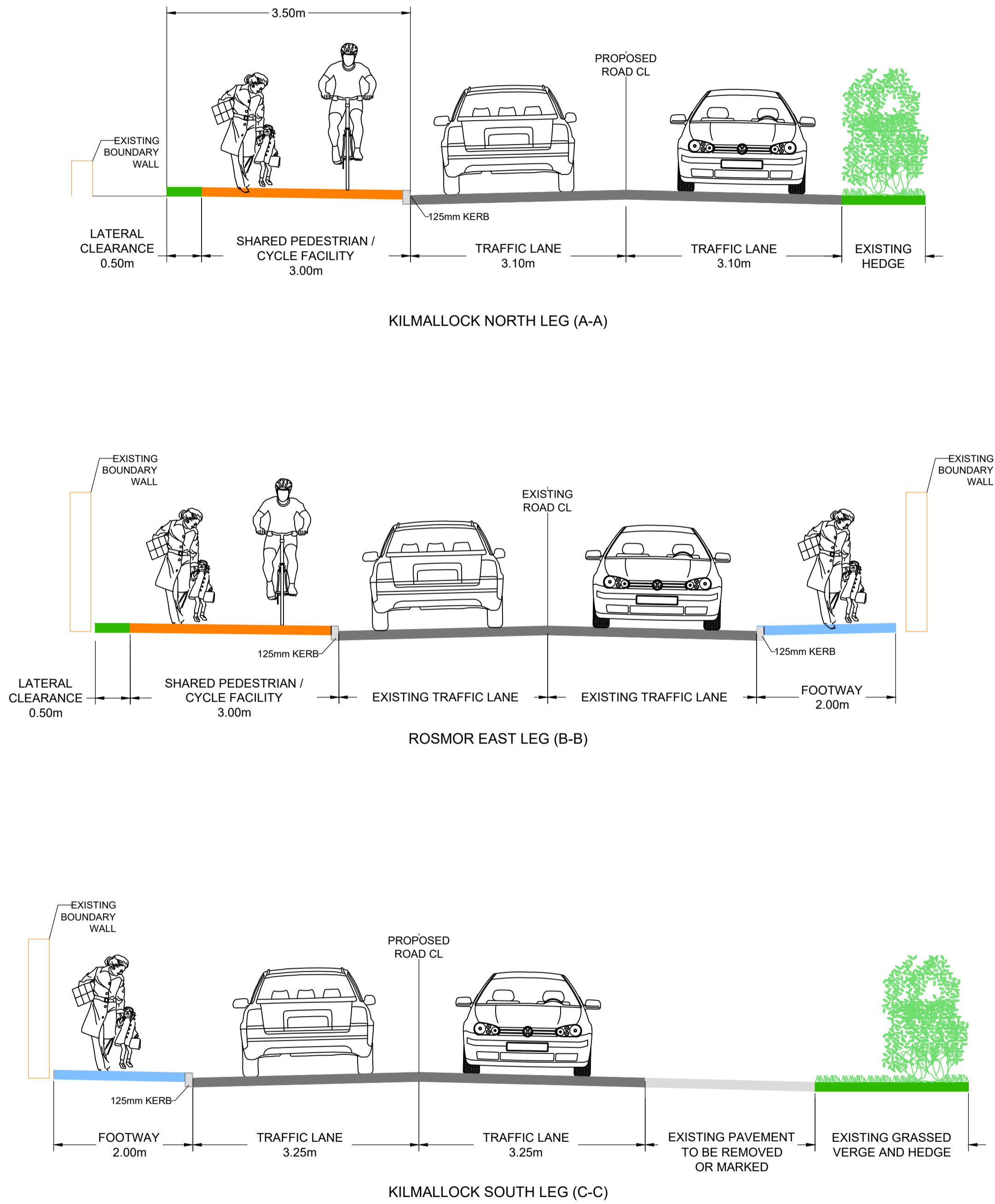
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GENERAL ARRANGEMENT

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DRAWING NUMBER	REVISION	
RMR-CCC-PD-ZZ-DR-0101	P02	

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LEGEND



CROSS SECTIONS
Scale 1:50

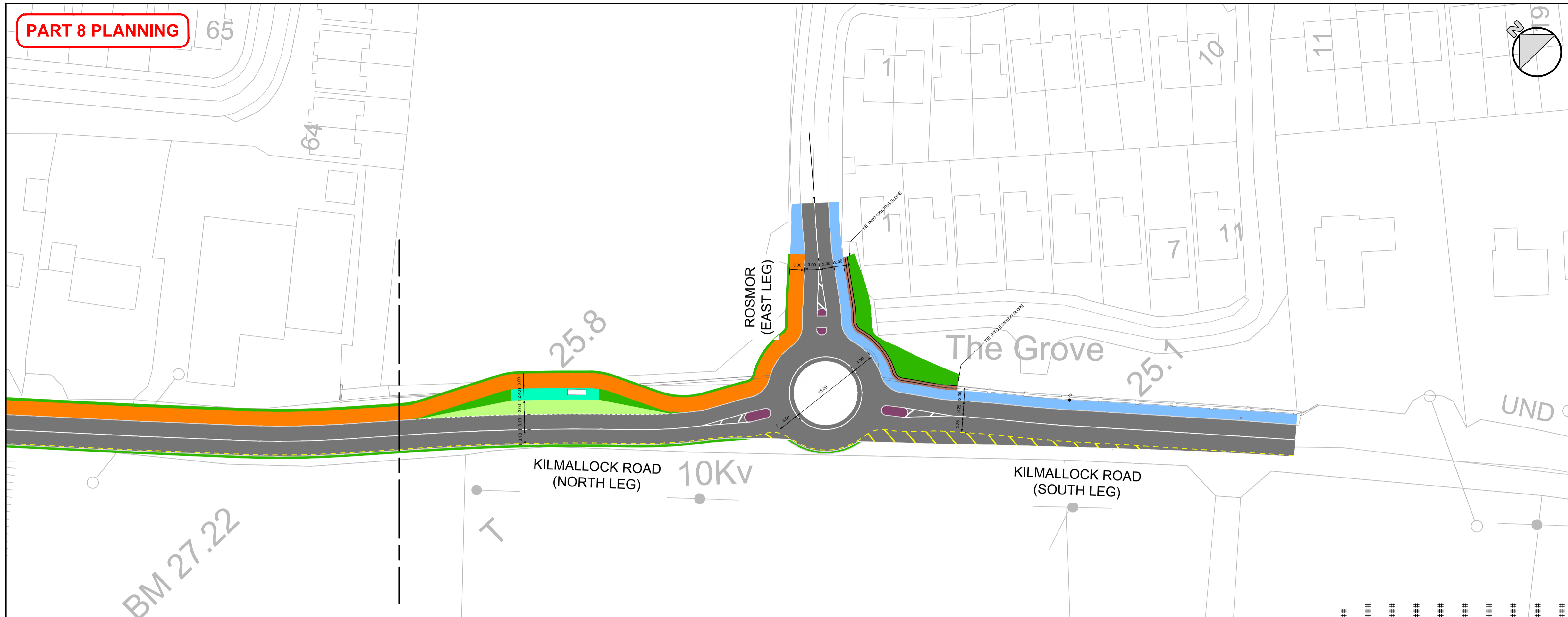
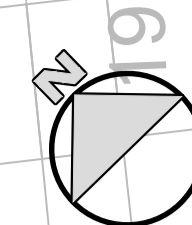
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P01	05/05/2022	PART 8 PLANNING	MV	RB	SC
P00	08/04/2022	FOR INFORMATION	MV	RB	SC



PROJECT
ROS MÓR, OLD CORK ROAD
BUS STOP & ROUNDABOUT DESIGN

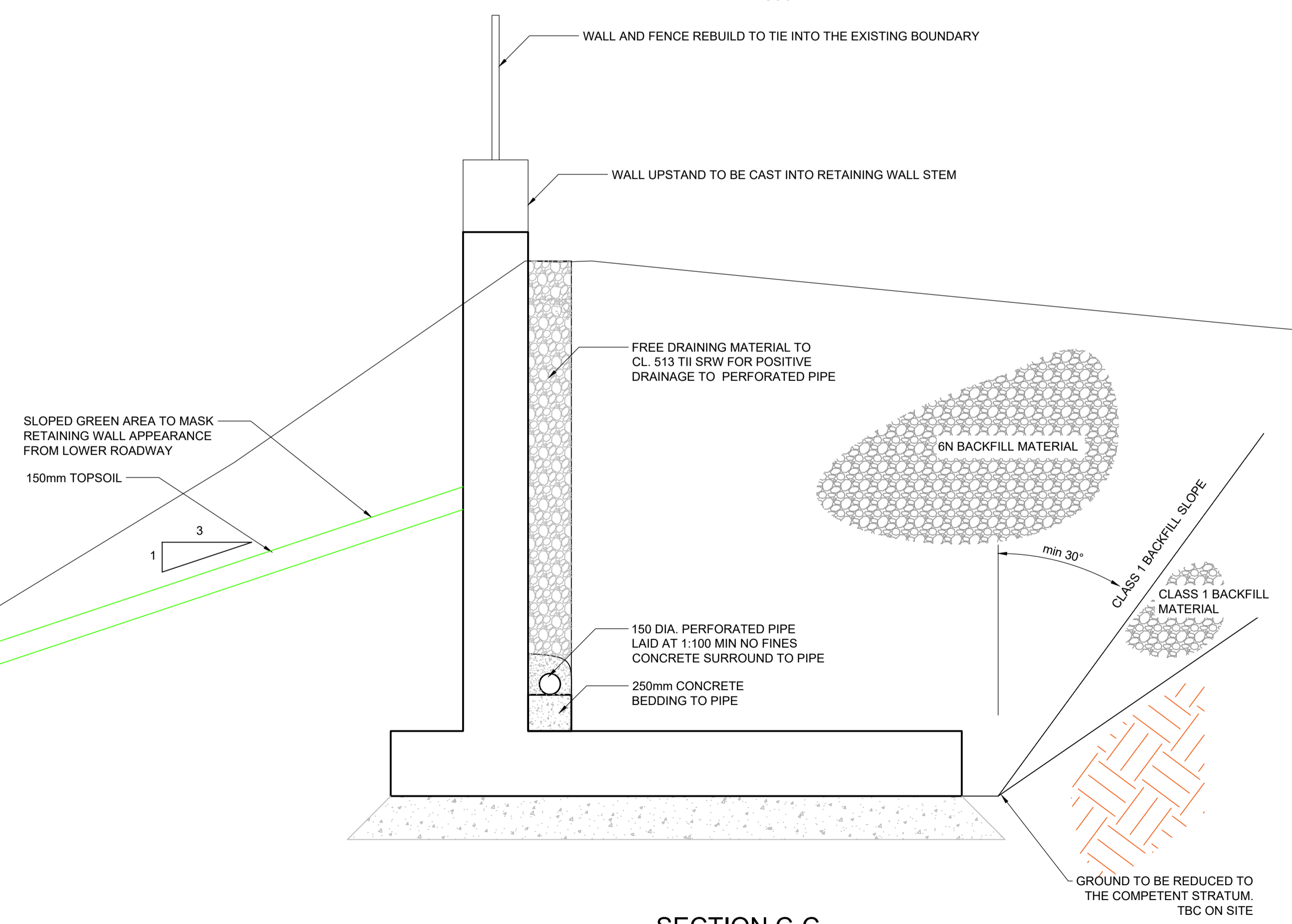
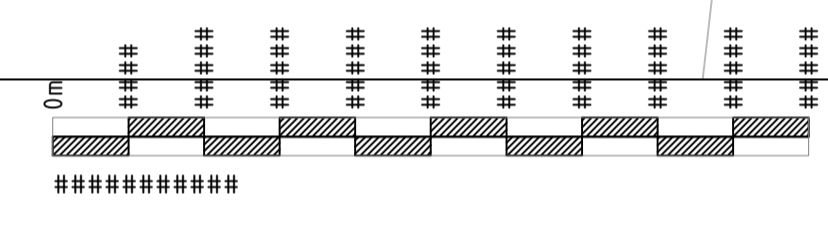
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TYPICAL CROSS SECTIONS

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DATE 03/05/2022	SCALE AS SHOWN	SHEET SIZE A1
DRAWING NUMBER RMR-CCC-PD-ZZ-DR-C-0201		REVISION P02



PLAN

Scale 1:500



SECTION C-C
RC WALL TYPICAL SECTION

Scale 1:25

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LEGEND

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- PROPOSED PAVED ISLAND
- PROPOSED PAVED BOARDING STRIP
- PROPOSED RC RETAINING WALL
- ▲ A A ▲ SECTION LOCATION

REV	DATE	DESCRIPTION	BY	CHK	APD
P02	10/06/2022	PART 8 PLANNING	GA	RB	SC
P01	05/05/2022	PART 8 PLANNING	MV	RB	SC

CONSULTANT

CLIENT

PROJECT
**ROS MÓR, OLD CORK ROAD
BUS STOP & ROUNDABOUT DESIGN**

DRAWING TITLE
RC WALL

DESIGNED	DRAWN	CHECKED/APPROVED
RB	MV	SC
DATE	SCALE	SHEET SIZE
10/06/2022	AS SHOWN	A1

DRAWING NUMBER	REVISION
RMR-CCC-PD-SGW-SK-0001	P02