Glanmire Road Improvements and Sustainable Transport Works

Part 8 Planning Application Report

Cork County Council

Project number: 60559532
Glanmire Road Improvements and Sustainable Transport Works
Part 8 Planning Application Report

Quality information

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Principal Engineer

Approved by: Eoin O’Mahony
Regional Director

Revision History

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1. Introduction

The purpose of this report is to outline the proposals associated with the project ‘Glanmire Road Improvement and Sustainable Transport Works’. This involves a suite of measures (refer to Figure 1) to improve the accessibility, sustainability, capacity and safety of the transport network in the Sallybrook, Glanmire and Riverstown areas.

Figure 1.1 Glanmire Road Improvements and Sustainable Transport Works
The following is a list of the proposed projects included within the Glanmire Road Improvements and Sustainable Transport Works project.

- Project No. 1 Church Hill Junction;
- Project No. 2 Banning Right Turn at Dunkettle Slip Road;
- Project No. 3 Glanmire Bridge/Village (Incorporates P17);
- Project No. 4 Riverstown Junction;
- Project No. 5 Signalised Junction Glanmire Road/Hazelwood Road;
- Project No. 6 Signalised Junction Riverstown Road / East Cliff Road;
- Project No. 7 Riverstown Bridge;
- Project No. 8 New Link Road (L3010 to Hazelwood Road);
- Project No. 9 L2999 Dunkettle Road;
- Project No. 10 Flaring at Tivoli Roundabout;
- Project No. 12 R615/R639 Junction;
- Project No. 13 Brook Inn Junction;
- Project No. 14 Footway Improvements Fernwood to Riverstown;
- Project No. 15 Glanmire & Riverstown Greenway;
- Project No. 16 New Pedestrian & Cycle Bridge adjacent to existing Glanmire Bridge;
- Project No. 20 East Cliff Road Pinch Point.

1.1 Background

Cork County Council has secured €5.9 million from the Local Infrastructure Housing Activation Fund (LIHAF) for the Glanmire area. LIHAF is a Government initiative to address significant public infrastructure deficits, where the lack of infrastructure is considered to have hindered the development of housing.

A significant amount of reports and assessment has been undertaken to identify the suites of measures contained in the ‘Glanmire Road Improvement and Sustainable Transport Works’.

- A report titled ‘Transport Assessment and Traffic Model for Dunkettle / Ballinglanna Lands, Glanmire, Co Cork’ dated February 2016 was prepared by MHL & Associates Ltd Consulting Engineers for Cork County Council.

- The purpose of this report was to assess the impact of the development of zoned lands and to identify the transport infrastructure that will be required to accommodate this development.

- Essentially this report provides the justification for the measures that will be implemented through the ‘Glanmire Road Improvement and Sustainable Transport Works’ project.

- A report titled ‘Glanmire Urban Expansion Area Transport Assessment’ dated July 2017 was prepared by Systra/Jacobs for the National Transport Authority. This report largely concurs with the MHL report in identifying the infrastructure to support sustainable travel in the Glanmire, Riverstown and Sallybrook areas of Co. Cork.
• Subsequently the recommendations from these reports were incorporated into the ‘Cobh Municipal District Local Area Plan’ dated 21st August 2017.

• An Bord Pleanála granted planning permission for the housing development at Ballinglanna, Glanmire, Co. Cork in March 2018 subject to a number of conditions.

1.2 Part 8 Documents

The following is a list of documents contained in the Part 8 planning application:

• Preliminary Design Drawings;
• Report to Inform Screening for Appropriate Assessment;
• Ecological Impact Assessment (EcIA);
• Outline Construction Environmental Management Plan (CEMP);
• Archaeological and Built Heritage Assessment of the Proposed Glanmire Road Improvements and Sustainable Transport Works,
• Flood Risk Assessment.

1.3 Public Exhibition

A Public Exhibition has been scheduled for the 17th May 2018 from 12am to 8pm in the Glanmire Scout Hall.

This will provide the community with an opportunity to view the plans and raise queries with the project team for the Glanmire Road Improvements and Sustainable Transport Works.

Plans and particulars of the proposed development are available for inspection and/or purchase at a fee of €15 per set from 4th May 2018 up to and including 15th June 2018 as follows:

• Planning Counter, Ground Floor, County Hall, Cork between the hours of 9.00 a.m. to 5.00 p.m. on each working day;
• Cork County Council Area Engineer’s Office, Ballinglanna, Co. Cork between the hours of 9.00 a.m. to 5.00 p.m. on each working day;
• Glanmire Public Library, 7A Hazelwood Centre, Riverstown, Glanmire, Co. Cork between the hours of 10.00 a.m. to 6:00 p.m. on Tuesday to Saturdays inclusive.

1.4 Submission Process

Plans and particulars are also available for inspection and to print from Cork County Council’s website
https://www.corkcoco.ie/planning/housing-infrastructure-implementation-team

Submissions and observations with respect to the proposed development, dealing with the proper planning and sustainable development of the area in which the development will be situated, may be made in writing on or before Friday 29th June 2018 as follows:
(a) Online on the Council’s website at https://www.yourcouncil.ie or

(b) In writing and clearly marked “Part 8 – Glanmire Road Improvements and Sustainable Transport Works” to; Ross Palmer, A/Senior Planner, Housing Infrastructure Implementation Team, Cork County Council, County Hall, Floor 3, Cork, Post Code T12 R2NC.

1.5 Site Notices

Site notices have been erected at various locations across the project area.

Refer to Drawings 60559532_SHT_20_GLAM_CT_00A, 00B & 00C for site locations and the location of site notices.
2. **Design Approach**

2.1 **Design Guidance/Standards**

The project is designed in accordance with the following guidance and standards:

- Design Manual for Urban Roads and Streets (DMURS),
- Design Manual for Roads and Bridges (DMRB),

2.2 **Cross Sections**

The new road cross sections were developed referencing the design standards specified. A number of measures to improve pedestrian facilities at junctions were identified and incorporated consistently throughout all projects.

**Carriageway Width**

DMURS has a dedicated chapter providing guidance on road widths depending on the road type. This highlights that designers should minimise the width of the carriageway by incorporating only as many lanes as needed to cater for projected vehicle flows and by reducing the size of individual lanes to meet predominant user needs.

Each project was assessed on an individual basis. The width of the vehicular lanes varies between 3m and 3.5m depending on the location. A swept path analysis was carried out using AutoTRACK software.

**Footway/Footpath Provision**

DMURS recommends a minimum footway/footpath width of 1.8m. Minimum widths are based on the space needed for two wheelchairs to pass each other. The minimum footway/footpath width is generally 2m for all of the proposed projects. Where a pinch point exists on the network the width may reduce to 1.8m but only if no other solution was viable.

**Cycling Provision**

The National Cycle Manual was used to determine the type of cycle facility required for the new road. This recommends that designers should ‘Determine the design speeds and volumes of traffic according to the regional and/or local sustainable traffic plan, and provide the appropriate cycling facility for that regime’.

**Corner Radii**

DMURS recommend reducing corner radii to improve pedestrian safety at junctions. It lowers the speed at which vehicles can turn corners and increases inter-visibility for all road users. Where design speeds are low and movements by larger vehicles are infrequent, a maximum corner radius of 1-3m can be applied.
**Pedestrian Crossings**

DMURS outlines pedestrian crossings are one of the most important aspects of street design as it is at this location that most interactions between pedestrians, cyclists and motor vehicles occur. Well designed and frequently provided crossings are critical to the balancing of movement priorities. The location and frequency of crossings should align with key desire lines and be provided at regular intervals.

**2.3 Drainage**

The proposed road drainage will facilitate the efficient collection of surface water while minimising the impact of runoff on the receiving environment. Where possible, the surface water will be attenuated prior to discharge. The principle type of drainage system will consist of a piped network with kerb and gullies, which will be integrated into the existing drainage network. Treatment will be provided in the form of hydrocarbon and silt inceptors. The drainage will be designed in accordance with TII Standards and the requirements of Cork County Council.

**2.4 Pavement**

Pavement will be designed in compliance with TII Standards. The process will start with the consideration of the cumulative traffic loading which the pavement is required to carry, followed by the design of the foundation, the base or main structural component and the surface course.

**2.5 Traffic Signs and Road Markings**

Traffic signs and road markings will be reviewed and confirmed as part of the detail design package and they will be designed in compliance with the Traffic Signs Manual (2010). Junction layouts have been outlined in the preliminary design drawings.

**2.6 Road Lighting**

Road lighting will be provided where required for each proposed design. The road lighting will be designed to the correct lux levels for road carriageway, cycle lanes, and pedestrian footways in accordance with BS 5489.

**2.7 Bridges**

Bridges will be designed in line with the requirements contained within the TII publication Design Manual of Roads and the Eurocode Standards, as transposed in the Irish National Standards and Annexes, the National Cycle Manual and the Design Manual for Urban Roads and Streets (DMURS).
3. Description of Proposed Projects

3.1 Overview

In the following sections a description of the proposed projects is provided.

3.2 P1 – Church Hill Junction

The project description is to be read in conjunction with drawing no: 60559532_SHT_20_GLAM_CT_001

Description

This project will involve the provision of a new right turn lane from the R639. To accommodate the layout the boundary wall of Cólaiste an Phiarsaigh will be set back. The benefits associated with the proposal include a more efficient junction which will provide higher levels of service for all users. Pedestrians will be provided with wider footways with a new footway on Church Hill. The bus stops will be relocated to provide for more direct connectivity with Cólaiste an Phiarsaigh and bus laybys will be provided so the efficiency of traffic movement on the Glanmire Road is improved. A pedestrian crossing will support much safer road conditions.

3.3 P2 – Banning Right Turn at Dunkettle Slip Road

The project description is to be read in conjunction with drawing no: 60559532_SHT_20_GLAM_CT_001

Description

This project will remove the right turn from Dunkettle Road onto the M8. The merging of traffic travelling onto the slip road of the M8 Merge can lead to operational difficulties for traffic travelling on the M8. There is also evidence that the Dunkettle Road is used a rat run for traffic seeking to get to avoid congestion at the Dunkettle Interchange.

3.4 P3 – Improvements to Glanmire Bridge/Village

The project description is to be read in conjunction with drawing no: 60559532_SHT_20_GLAM_CT_003

Description

This project will upgrade the existing road network on the R639, Glanmire Bridge and Glanmire Village. The aim of the project is to reduce speeds within Glanmire Village to provide a safer road network for all road users; this will be achieved through the incorporation of a raised carriageway surface. The project will integrate with other proposals included within the project such as improvements to R639/Church Hill Junction, the Proposed Greenway, Proposed Pedestrian Bridge and L2999 Dunkettle Road Upgrades.
3.5  P4 – Riverstown Cross Junction

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_004

**Description**

This project will provide an improved layout at the R639/L3010 junction. The existing junction is a four arm signalised junction. The proposal involves kerb realignments to increase the length of right turn lanes on the R639. The layout will include proposals to improve accessibility to O’Callaghan Park with a new entrance directly to the Park from the junction. This will also increase accessibility to Project No. 15 Proposed Greenway from Glanmire Community College to Colaiste an Phiarsaigh via O’Callaghan Park.

3.6  P5 – Signalised Junction Glanmire Road/Hazelwood Road

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_005

**Description**

This project will provide an improved layout at the R639/Hazelwood Road junction. The junction will be signalised. The proposal involves kerb realignments to increase the length of right turn lanes and improved pedestrians crossing facilities at the junction. The proposal provides greater cyclist provision at the junction and will make it easier to incorporate cyclist improvements to Hazelwood Road.

3.7  P6 – Signalised Junction Riverstown Road/East Cliff Road

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_006

**Description**

This project will provide an improved layout at the L3010/East Cliff Road junction. The junction will be signalised to include for the connection to Project No. 8, which involves a New Link Road from L3010 to Hazelwood Road. Kerbs and footways will be realigned and resurfaced to improve conditions for pedestrians and cyclists at the junction.

3.8  P7 – Minor Improvements to Riverstown Bridge

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_007
Description
The existing uncontrolled shuttle system and pedestrian bridge will be retained with improved road markings and surfacing provided. The existing Riverstown Bridge is a protected structure with limited opportunity for improvements due to the width of the structure. The increased capacity at Riverstown Cross Junction (P4) and the construction of a new link road from Riverstown Road to Hazelwood Road (P8) will have a positive impact on Riverstown Bridge as it will reduce the volume of traffic using the bridge.

3.9 P8 – New Link Road (L3010 to Hazelwood Road)
The project description is to be read in conjunction with drawing no:
60559532_SHT_20.GLAM_CT_008

Description
This project will provide a new connection between the L3010 and Hazelwood Road. The benefit of this project is that it will reduce the traffic demand on Riverstown Bridge (Project No.7) by providing an alternative route from Riverstown Village. Some mature trees will need to be felled to deliver this project. These will be replaced. Parallel parking will be provided on the new section of link road to support the businesses in Riverstown Village.

3.10 P9 – L2999 Dunkettle Road
The project description is to be read in conjunction with drawing no:
60559532_SHT_20.GLAM_CT_009.1 – 009.6

Description
This project will upgrade the L2999 Dunkettle Road.

From Glanmire Village to the proposed Ballinglanna development a 3m shared use footway/cycleway, a 6.5m carriageway and a 2m footway is proposed. From the Ballinglanna Development to Gaelscoil Uí Drisceoil a wider cross section consisting of a 2m footway either side of the carriageway, a 3m segregated cycle track, a 6.5m carriageway and 1m verge either side of the carriageway will be provided. Pedestrian/cyclist crossings will be provided at various locations to improve safety for all road users.

Land acquisition will be required to deliver this project. Boundary walls will be relocated to facilitate the project. Most of the land acquisition is on the eastern side of the L2999 Dunkettle Road. Furthermore two residential properties close to Caherlag Junction will need to be acquired to deliver this project.

3.11 P10 – Flaring at Tivoli Roundabout
The project description is to be read in conjunction with drawing no:
Description
This project will provide facilities to enable pedestrians and cyclists to safely negotiate Tivoli Roundabout. Kerb realignment and resurfacing will also be undertaken to increase the capacity of the roundabout from the R639 Southbound approach. The project will integrate with the proposals to be provided as part of the Dunkettle Interchange Improvements Project.

3.12 P12 – R615/R639 Junction
The project description is to be read in conjunction with drawing no:
60559532_SHT_20_GLAM_CT_012
Description
This project proposes a reorganisation of traffic movements at the junction of the R615 and R639. Left turners from the R639 have significant difficulty making this movement as a consequence of the geometry and gradient. As a result the proposal involves prohibiting the left turn and providing a right turn lane to R615 from the R639. Pedestrian crossing movements will be accommodated through the provision of a controlled crossing at Project 5, R639/Hazelwood Road junction. An alternative route is available for vehicles wanting to access the R615 as they can utilise Old Youghal Road to travel north east on the R615.

3.13 P13 – Brook Inn Junction
The project description is to be read in conjunction with drawing no:
60559532_SHT_20_GLAM_CT_013
Description
This project proposes realigning the junction between the R639 and the L96391-0 to improve visibility and road safety. The existing layout consists of two access roads joining the R639. As part of the works the existing bus layby will be formalised and pedestrian provision improved. Reducing the width of the carriageway will provide opportunity for greater landscaping on approach to Sallybrook, acting as a gateway and traffic calming feature for the area.

3.14 P14 - Footway Improvements Fernwood to Riverstown
The project description is to be read in conjunction with drawing no:
60559532_SHT_20_GLAM_CT_014
Description
This project will involve upgrading the footways from the residential estate ‘Fernwood’ along the East Cliff Road. The benefit of this proposal is that the provision for pedestrians will be improved along an existing desire line into Riverstown Village.
3.15  P15 – Glanmire & Riverstown Greenway

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_015.1 – 15.3

**Description**

This project will deliver the primary spine for walking and cycling through the study area. It will connect Glanmire Community School and St Joseph’s National School in the north with Cólaiste an Phíarsigh in the south, linking residential developments with facilities and services in Riverstown Village and Glanmire Village. Gaelscoil Ui Drisceoil will connect to the greenway by utilising the improved pedestrian and cycling facilities proposed on L2999 Dunkettle Road (P9). The provision of a high quality continuous walking and cycling greenway will provide benefits in relation to the promotion of active travel in this area. School journeys add to congestion in the peak periods currently. The implementation of a greenway will provide pedestrians and cyclists a safe route to school which will have a benefit to traffic congestion in the area.

3.16  P16 – New Pedestrian & Cycle Bridge adjacent to existing Glanmire Bridge

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_016

**Description**

This project will provide a new pedestrian and cyclists bridge north of the existing vehicular Glanmire Bridge. The bridge will provide high levels of connectivity between Project No. 15 Glanmire and Riverstown Greenway and Glanmire village.

3.17  P20 – East Cliff Road Pinch Point

The project description is to be read in conjunction with drawing no:

60559532_SHT_20_GLAM_CT_020

**Description**

This project involves the upgrade of a narrow section of East Cliff Road adjacent to the entrance to Riverstown FC. The existing road is a pinch point for vehicular traffic and the footway delivers poor levels of service due to its width (approximately 1m). The proposal will improve the alignment of the road at this location. The width of the footway will be increased. Vehicular speed reduction measures in the form of rubble strips and road markings will be incorporated to improve safety for all road users.
4. Consultation

The following outlines the consultation undertaken as part of the preparation of the proposals being brought forward for Part 8 approval.

4.1 Consultees

Consultation was carried out in advance of the Part 8 planning application. Table 3.1 summarises the consultees.

Table 3.1 Consultees

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<tr>
<td>Senior Traffic Engineer, Cork City Council</td>
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5. Environmental Assessment of the Scheme

The following documents have been produced for the Part 8 Application.

5.1 Report to Inform Screening for Appropriate Assessment

Refer to the Report to Inform Screening for Appropriate Assessment for the Proposed Glanmire Road Improvements and Sustainable Transport Works for further details.

5.2 Ecological Impact Assessment (EcIA) Report

Refer to the Ecological Impact Assessment (EcIA) Report for the Proposed Glanmire Road Improvements and Sustainable Transport Works for further details.

5.3 Outline Construction Environmental Management Plan (CEMP)

Refer to the Outline Construction Environmental Management Plan for the Proposed Glanmire Road Improvements and Sustainable Transport Works for further details.

5.4 Archaeological and Built Heritage Assessment

Refer to the Archaeological and Built Heritage Assessment of the Proposed Glanmire Road Improvements and Sustainable Transport Works for further details.
6. Summary

The following is a list of the projects included within the Glanmire Road Improvements and Sustainable Transport Works project.

- Project No. 1 Church Hill Junction;
- Project No. 2 Banning Right Turn at Dunkettle Slip Road;
- Project No. 3 Glanmire Bridge/Village (Incorporates P17);
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- Project No. 16 New Pedestrian & Cycle Bridge adjacent to existing Glanmire Bridge;
- Project No. 20 East Cliff Road Pinch Point.

6.1 Drawings and Supporting Information:

Plans and particulars are available for inspection and to print from Cork County Council’s website: https://www.corkcoco.ie/planning/housing-infrastructure-implementation-team

Submissions and observations with respect to the proposed development, dealing with the proper planning and sustainable development of the area in which the development will be situated, may be made in writing on or before Friday 29th June 2018 as follows:

(a) Online on the Council’s website at https://www.yourcouncil.ie or
(b) In writing and clearly marked “Part 8 – Glanmire Road Improvements and Sustainable Transport Works” to; Ross Palmer, A/Senior Planner, Housing Infrastructure Implementation Team, Cork County Council, County Hall, Floor 3, Cork, Post Code T12 R2NC.

6.2 Public Exhibition

A Public Exhibition has been scheduled for the 17th May 2018 from 12am to 8pm in the Glanmire Scout Hall.

This will provide the community with an opportunity to view the plans and raise queries with the project team.
Plans and particulars of the proposed development are available for **inspection and/or purchase** at a fee of €15 per set **from 4th May 2018 up to and including 15th June 2018** as follows:

- Planning Counter, Ground Floor, County Hall, Cork between the hours of 9.00 a.m. to 5.00 p.m. on each working day;
- Cork County Council Area Engineer’s Office, Ballinglanna, Co. Cork between the hours of 9.00 a.m. to 5.00 p.m. on each working day;
- Glanmire Public Library, 7A Hazelwood Centre, Riverstown, Glanmire, Co. Cork between the hours of 10.00 a.m. to 6:00 p.m. on Tuesday to Saturdays inclusive.