

Carrigaline UDF and Public Realm

Utility Report

Cork County Council

August 2023



Notice

This document and its contents have been prepared and are intended solely as information for Cork County Council and use in relation to Carrigaline UDF and Public Realm.

WS Atkins Ireland Limited assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

This document has 12 pages including the cover.

Document history

Revision	Purpose description	Originated	Checked	Reviewed	Author-ised	Date
Rev 0	For Review	DO'B	BJ	BJ	RAN	29/08/23

Client signoff

Client	Cork County Council
Project	Carrigaline UDF and Public Realm
Job number	5199585
Client signature / date	

Contents

Chapter	Page
1. Introduction	4
1.1. Project Overview	4
1.2. Scope of the Report	5
1.3. Sources of Information	5
2. Existing Utilities	6
2.1. ESB	6
2.2. Gas	7
2.3. Eir	8
2.4. Enet	9
2.5. Wastewater	10
2.6. Watermain	10
2.7. Stormwater	11

Figures

Figure 1-1 - Proposed Carrigaline Village Public Realm and Waterfront River Park	4
Figure 2-1 – Existing ESB Assets	6
Figure 2-2 - Main Street Electricity Pole	7
Figure 2-3 - Potentially Undergrounded ESB Cable	7
Figure 2-4 - Existing GNI Assets	8
Figure 2-5 - Existing Eir Assets	9
Figure 2-6 - Existing Enet Assets	9
Figure 2-7 - Existing Irish Water Wastewater Assets	10
Figure 2-8 - Existing Irish Water Watermain Assets	11

1. Introduction

1.1. Project Overview

Cork County Council (CCC) is proposing to develop Carrigaline Village Public Realm and Waterfront River Park along the north bank of the Owenabue River, see Figure 1-1, as a space that will provide a civic identity strongly connected with the water and the river ecology.

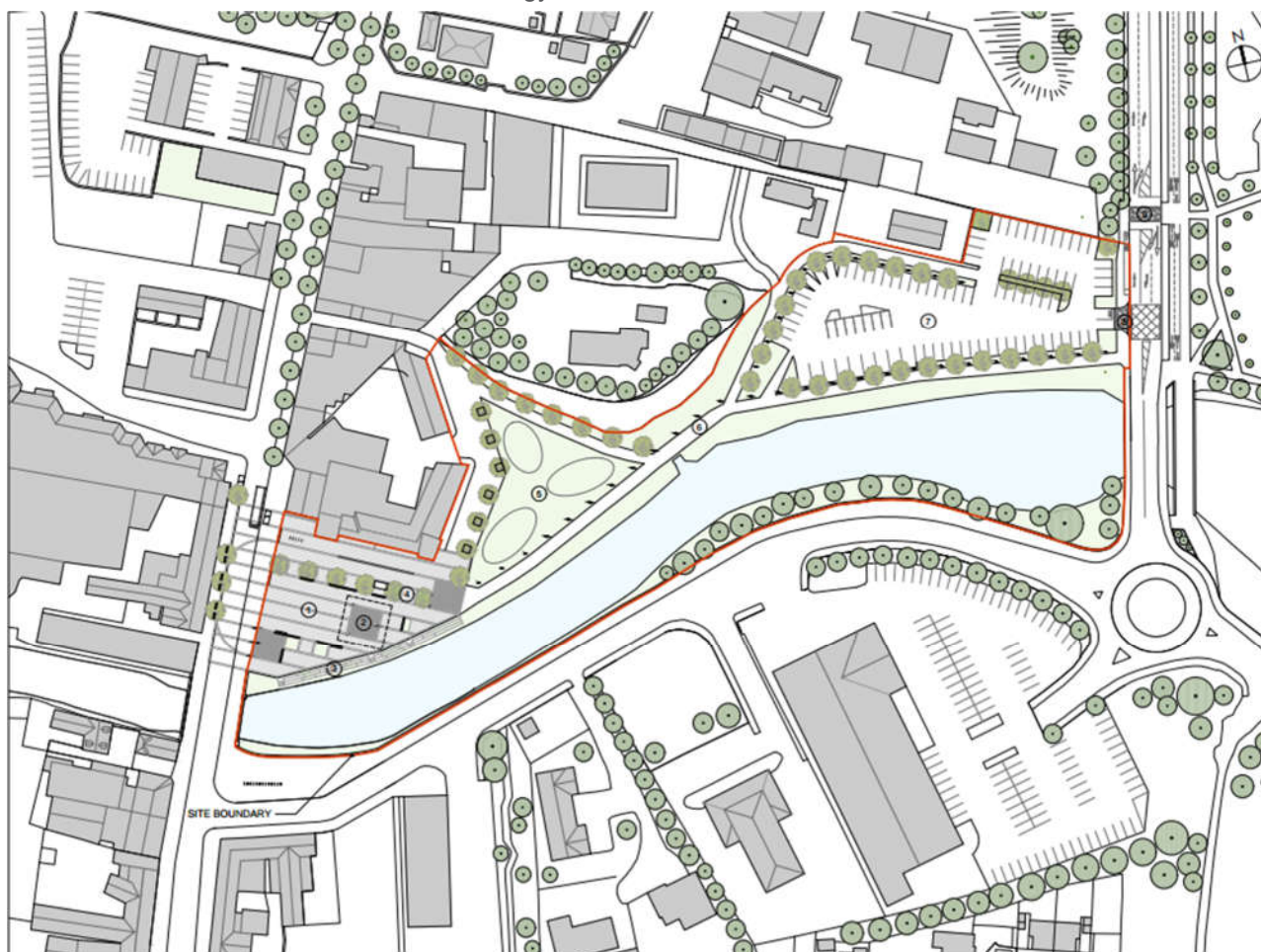


Figure 1-1 - Proposed Carrigaline Village Public Realm and Waterfront River Park

In June 2022 the Carrigaline Transport & Public Realm Enhancement Project was published by CCC for Public Consultation. One of the central aims of the Transport & Public Realm Enhancement Project is to rejuvenate Carrigaline's Main Street so it can fully function, once again, as the community focus of the town. The new Public Realm and Waterfront River Park will complement and enhance the upgraded Main Street.

Key elements of the project include the provision of River Front and Water Activities including a new waterfront public space (reclaimed from the existing car park) which will encourage activities such as walking, cycling, local festivals, community events e.g. pipe band. Upgraded landscaping will include Biodiversity/Pollinator Planting and Sustainable Urban Drainage Systems. High quality urban design and material finishes are proposed throughout the surrounding public realm, setting a benchmark for the quality expected from plot designers. The Carrigaline Village Public Realm and Waterfront River Park will provide an attractive route along the river through the Owenabue Promenade + Public Connection Routes, reinforcing the public transport multimodal central core in this area to attract people from the City and providing sheltered, inviting space for people to arrive, shop and spend more time in the central core of the town and along the river. A Public Pavilion with performance stage will provide a central focus to the new public realm. This multifunctional Pavilion provides a sheltered performance stage for community events, connected to the waterfront. Public Lighting for People and Place will be carefully considered and a coherent lighting strategy that is sensitive to context and human behaviour will look at the quality of light and use it to best articulate the changing urban environment.

1.2. Scope of the Report

This Utility Report is a desktop assessment and will aim to identify all existing utility infrastructure within the vicinity of the proposed site.

1.3. Sources of Information

Information on utilities in the vicinity of the proposed site has been obtained from the following sources:

- Ordnance Survey mapping;
- Topographic survey information;
- Consultation with utility companies;
- Cork County Council information;
- Google Maps;

2. Existing Utilities

2.1. ESB

The ESB have provided a map of their existing assets within the vicinity of the proposed site, see Figure 2-1.

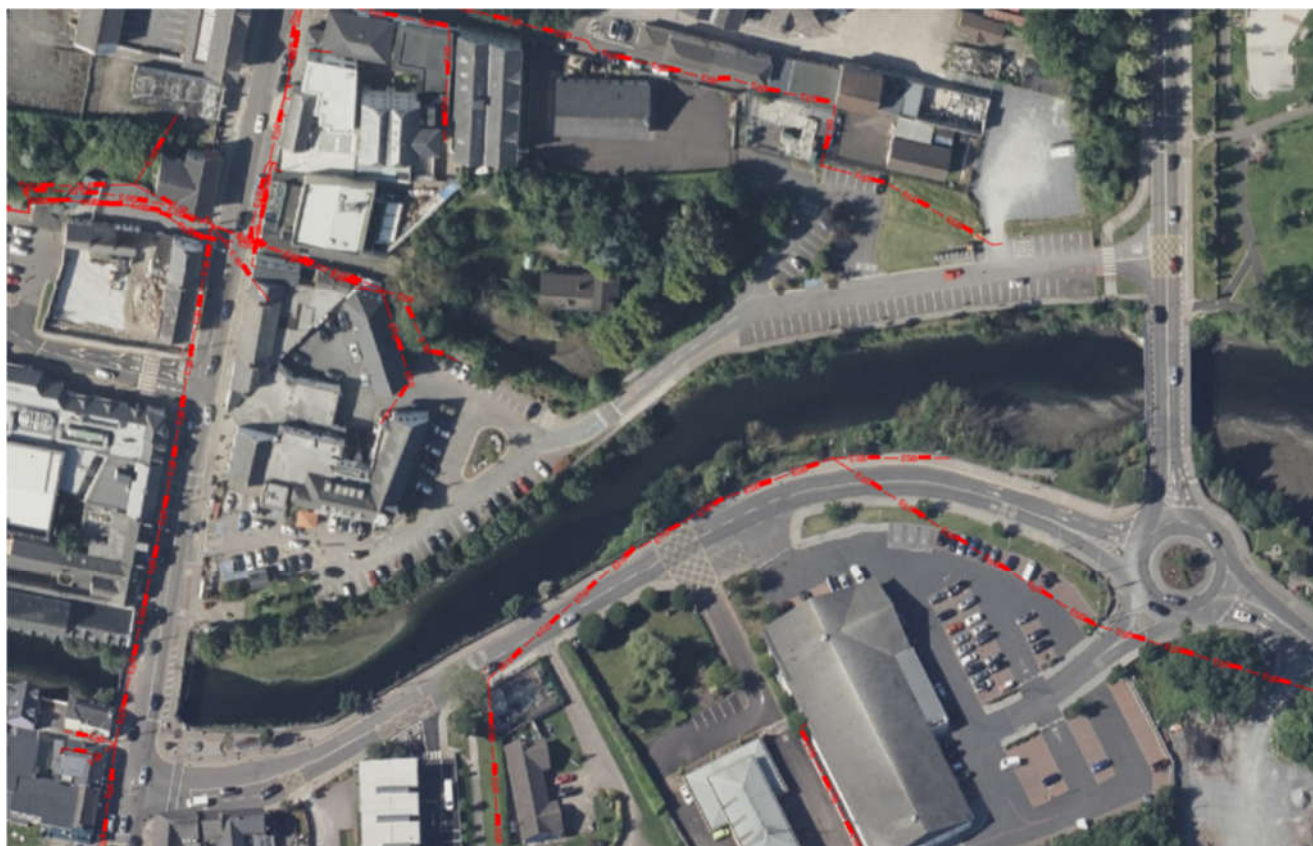


Figure 2-1 – Existing ESB Assets

ESB records indicate the following:

- A low voltage overhead line runs north to south along the Main Street.
- An electricity pole on the Main Street overhead line, just in front of Paddy Power, has a number of low voltage service lines running between the pole and the businesses on the opposite side of the street, see Figure 2-2.
- An electricity pole at the rear of the cluster of commercial buildings off of Main Street, is connected to the electricity pole mentioned previous (Main Street, Paddy Power), and serves some of the business in this area via low voltage overhead service lines.
- The ESB records indicate a low voltage overhead line running east to west along the north of the car park and Old Waterpark Pumping Station. However, from a review of Google Maps Street View it would appear that overhead cable may be undergrounded, see Figure 2-3.



Figure 2-2 - Main Street Electricity Pole



Figure 2-3 - Potentially Undergrounded ESB Cable

The proposed works will be considerate of the ESB assets and any necessary works to/near the ESB infrastructure will be progressed in consultation with the ESB.

2.2. Gas

Gas Networks Ireland have provided a map of their existing assets within the vicinity of the proposed site, see Figure 2-4.

GNI records indicate the following:

- A low-pressure distribution pipeline (180mm pe-80 75mBar) runs north to south along the Main Street.

- A medium-pressure distribution pipeline (125mm PE-80 4Bar) runs along the southern boundary of the site, in line with the Owenabue river.
- A series of low-pressure services pipelines (90mm PE-80 75mBar and 63mm PE-80 75mBar) and the Main Street low-pressure distribution pipeline (180mm pe-80 75mBar) are fed by the medium-pressure distribution pipeline (125mm PE-80 4Bar) mentioned previously via a District Regulating Installation (DRI).

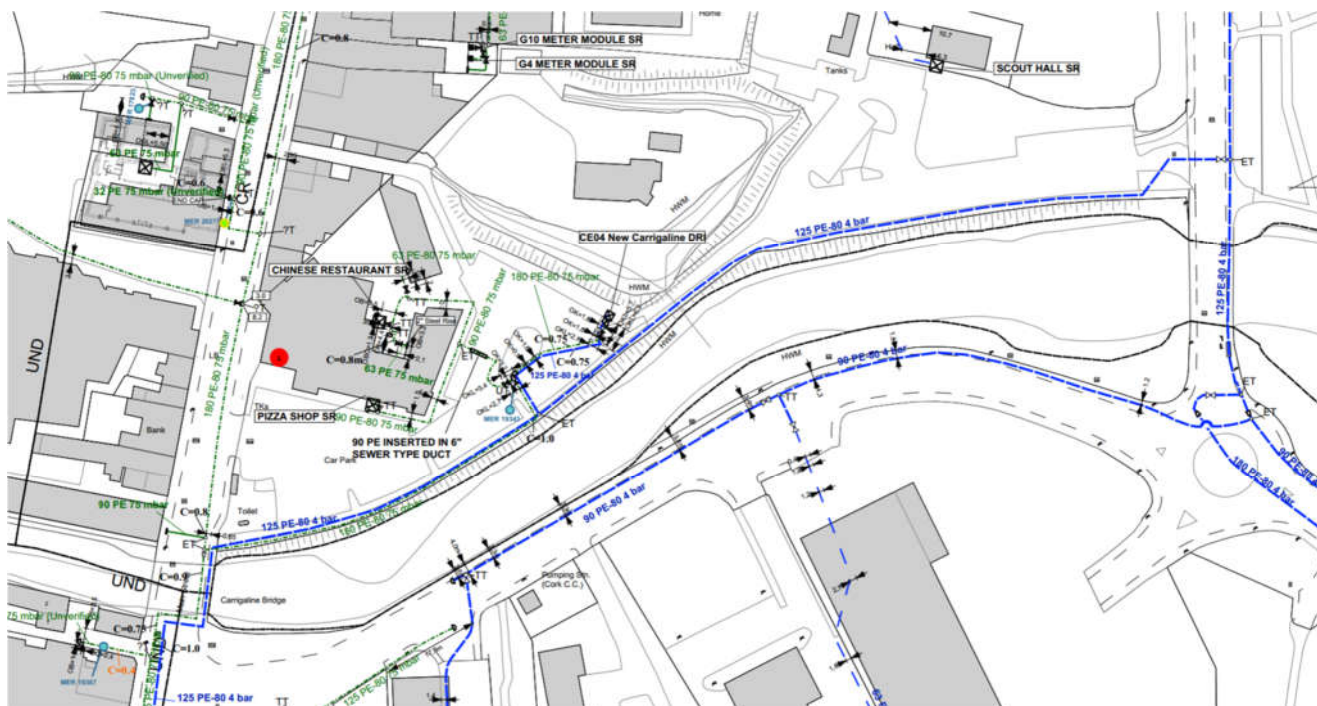


Figure 2-4 - Existing GNI Assets

The proposed works will be considerate of the GNI assets and any necessary works to/near the GNI infrastructure will be progressed in consultation with the GNI.

2.3. Eir

Eir have provided a map of their existing assets within the vicinity of the proposed site, see Figure 2-5.

Eir records indicate the following:

- There are 5 No. 100mm Eir ducts running north to south along the Main Street.
- A 100mm Eir duct is taken off from the Main Street Eir ducts in front of Boots. This duct is routed into and around the cluster of commercial buildings.
- At the eastern side of the site there is a blanked Eir duct taken across the road at the entrance to the car park.

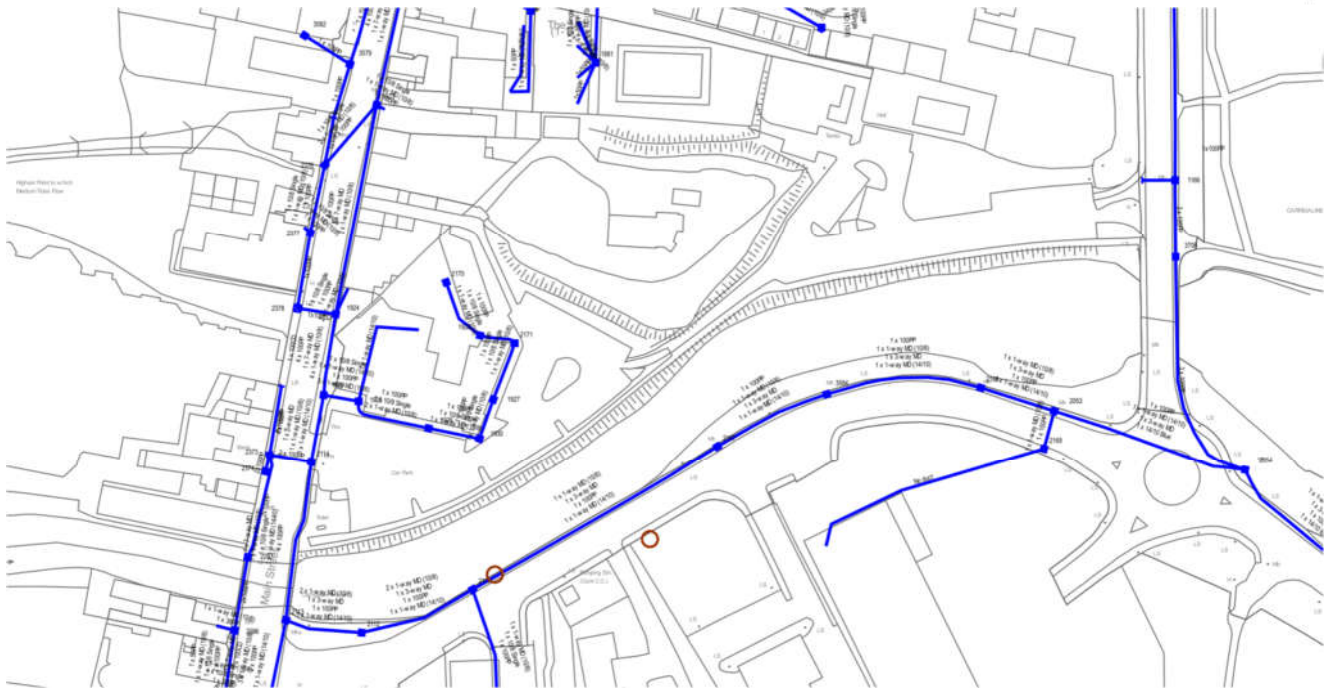


Figure 2-5 - Existing Eir Assets

The proposed works will be considerate of the Eir assets and any necessary works to/near the Eir infrastructure will be progressed in consultation with the Eir.

2.4. Enet

Enet have provided a map of their existing assets within the vicinity of the proposed site, see Figure 2-6.

Enet records indicate the following:

- There are 4 No. 100mm Enet ducts running north to south along the Main Street.

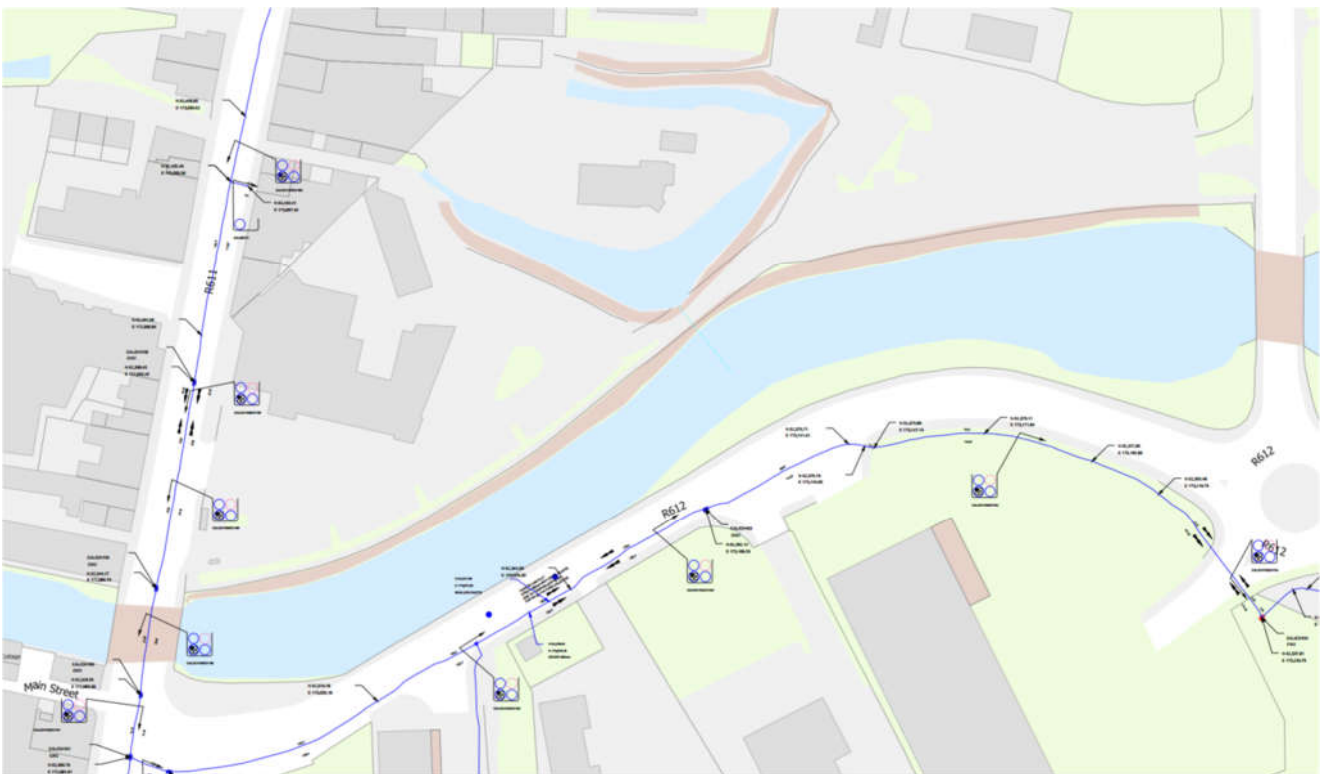


Figure 2-6 - Existing Enet Assets

- A 150mm uPVC Distribution Watermain is taken of the previously mentioned 450mm trunk main in the R612, at the car park entrance at the east of the site. This

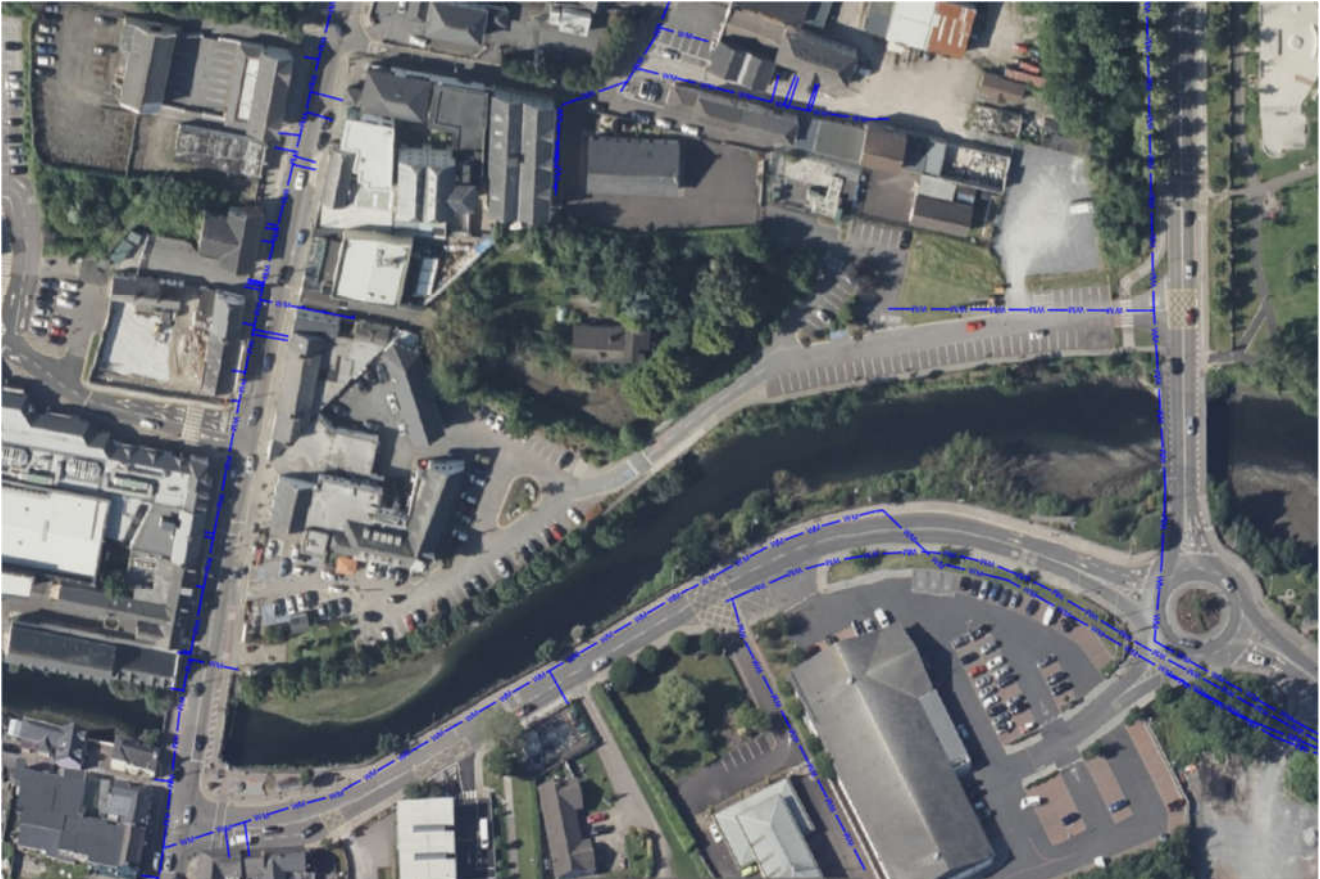


Figure 2-8 - Existing Irish Water Watermain Assets

The proposed works will be considerate of the Irish Water Watermain assets and any necessary works to/near the Irish Water Watermain infrastructure will be progressed in consultation with the Irish Water.

2.7. Stormwater

The design team sent a number of requests to Cork County Council for access to records of the existing stormwater infrastructure within the vicinity of the site. However, no information was made available.

Based on a high-level review of the topographical survey and the proposals for the development of the scheme, the surface water runoff quality will likely be improved, and quantity will likely be reduced as a result of this development. The scheme proposes to reclaim an existing carpark at the western side of the site and introduce a paved public plaza with SuDS features incorporated throughout. The proposal also includes for a new green area just east of the cluster of commercial buildings at the western side of the site. Both of these proposals will aid the reduction of runoff volumes by slowing surface water flows, providing the opportunity for evapotranspiration and providing the opportunity for infiltration to ground.

Diarmuid O'Brien
WS Atkins Ireland Limited
Unit 2B
2200 Cork Airport Business Park
Cork
T12 R279

Tel: +353 21 429 0300

© WS Atkins Ireland Limited except where stated otherwise