

# Carrigaline UDF and Public Realm

## Utility Report

Cork County Council

February 2024



# Notice

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This document has 12 pages including the cover.

## Document history

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## Client signoff

Client	Cork County Council
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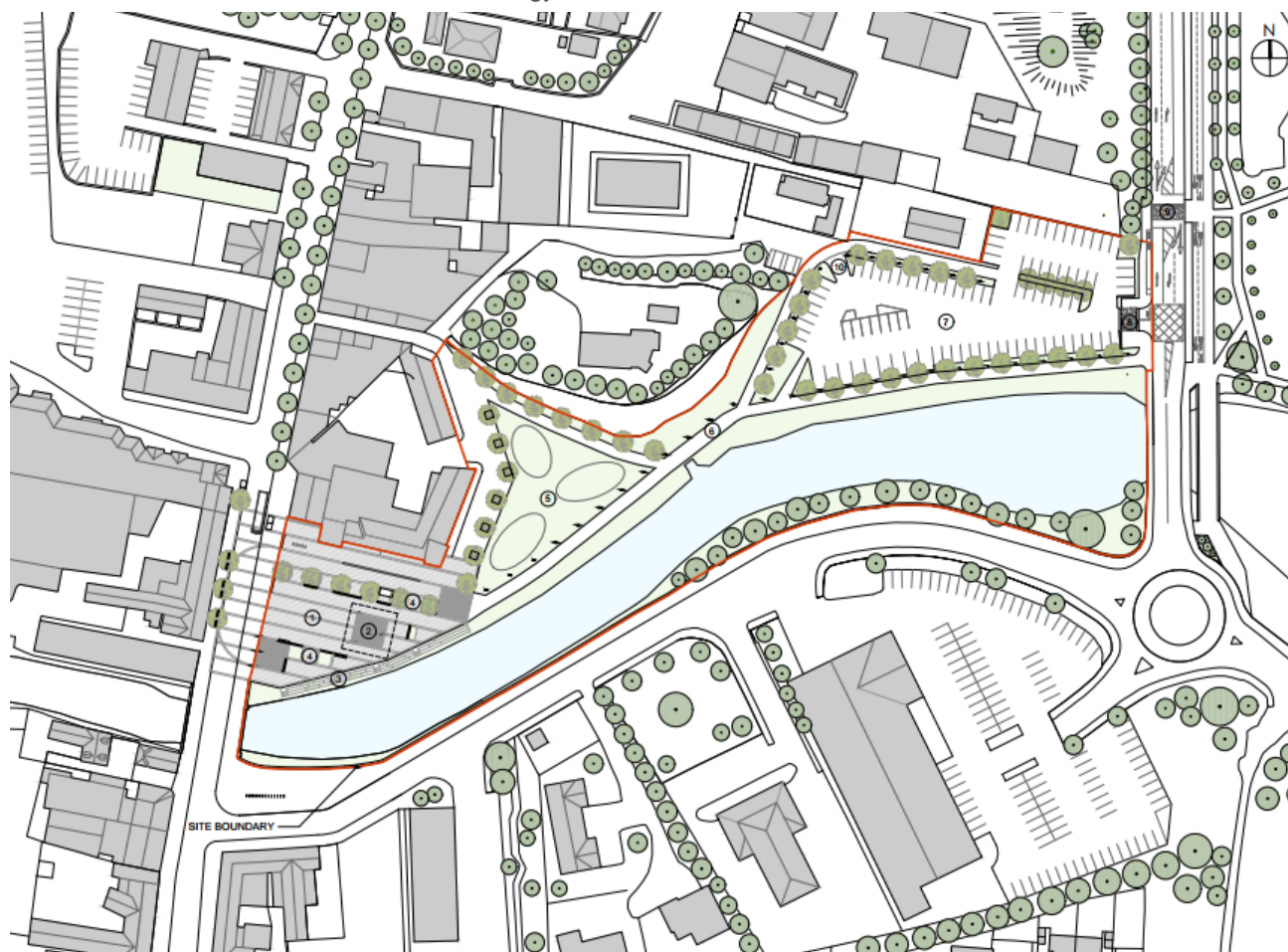
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# 1. Introduction

## 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

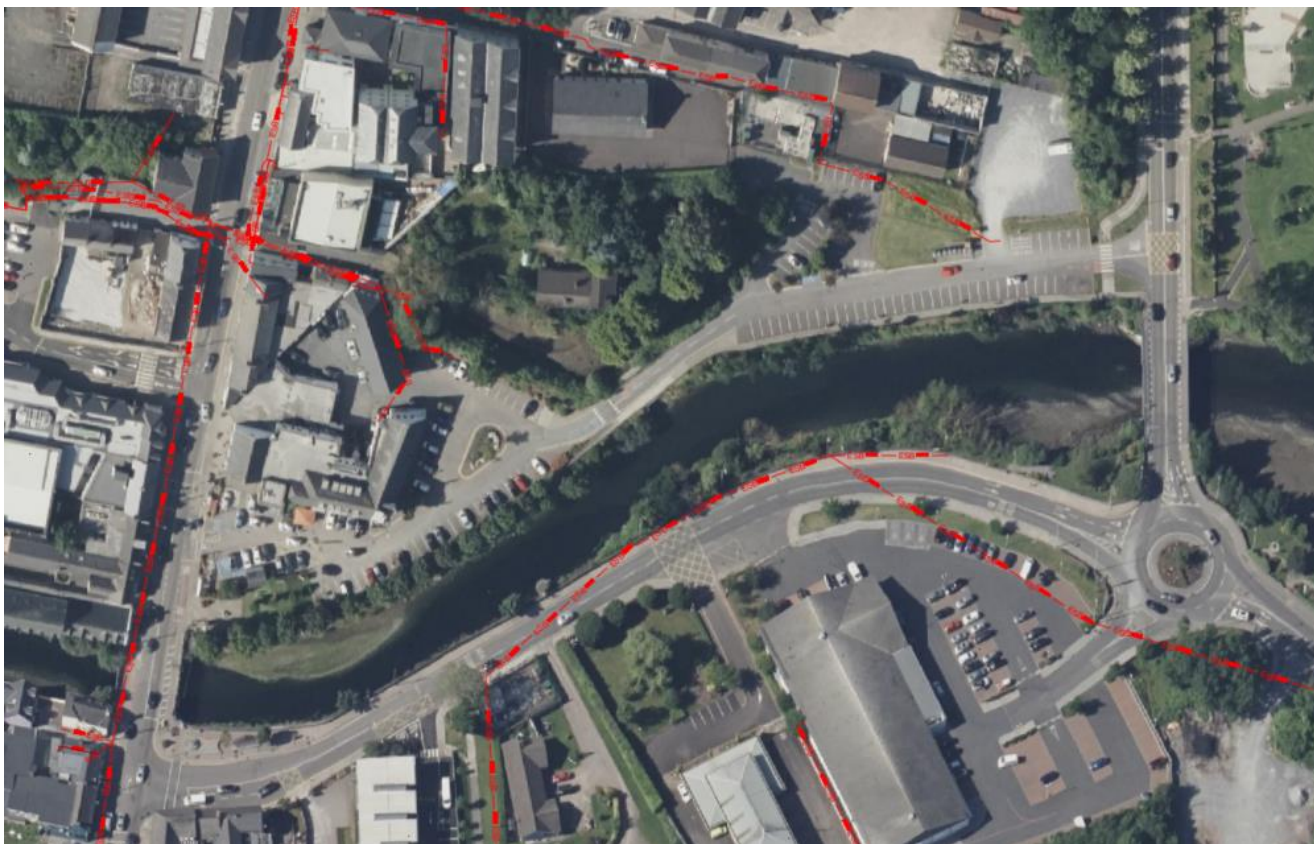
Information on utilities in the vicinity of the proposed site has been obtained from the following sources:

- 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 underground, 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.

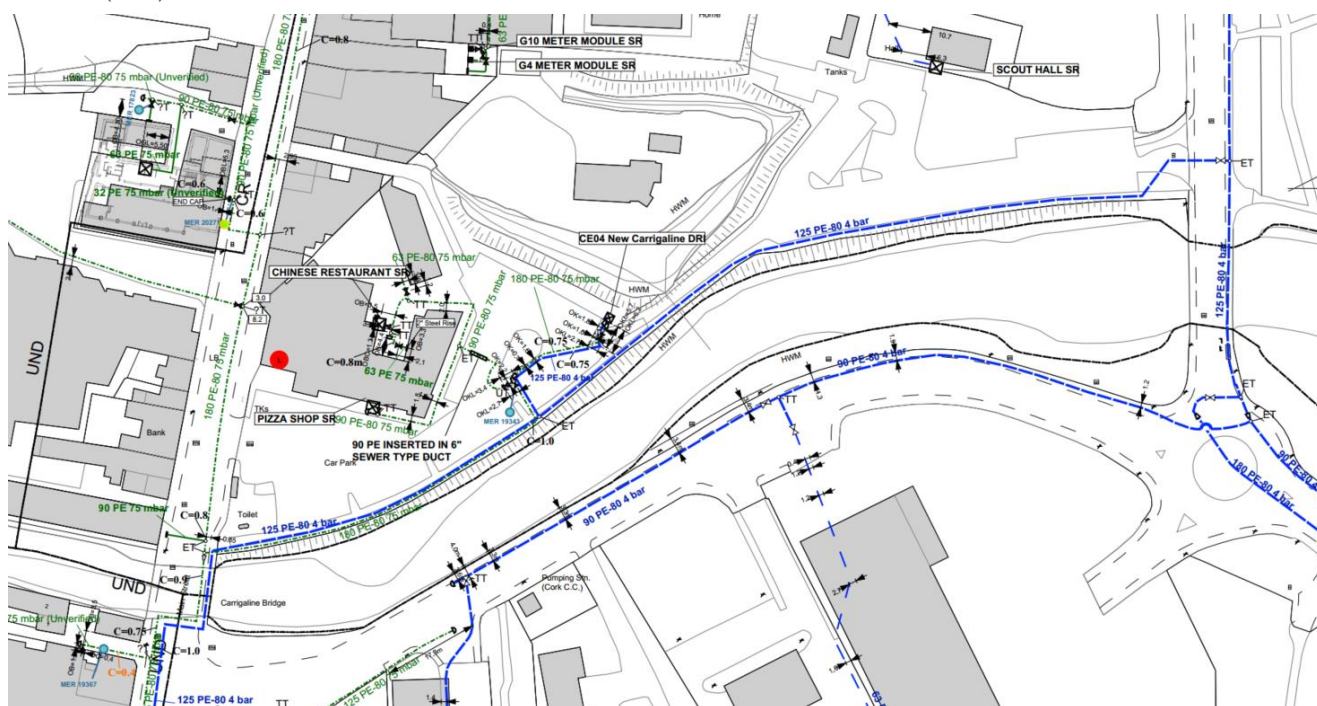
## 2.2. Gas

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.

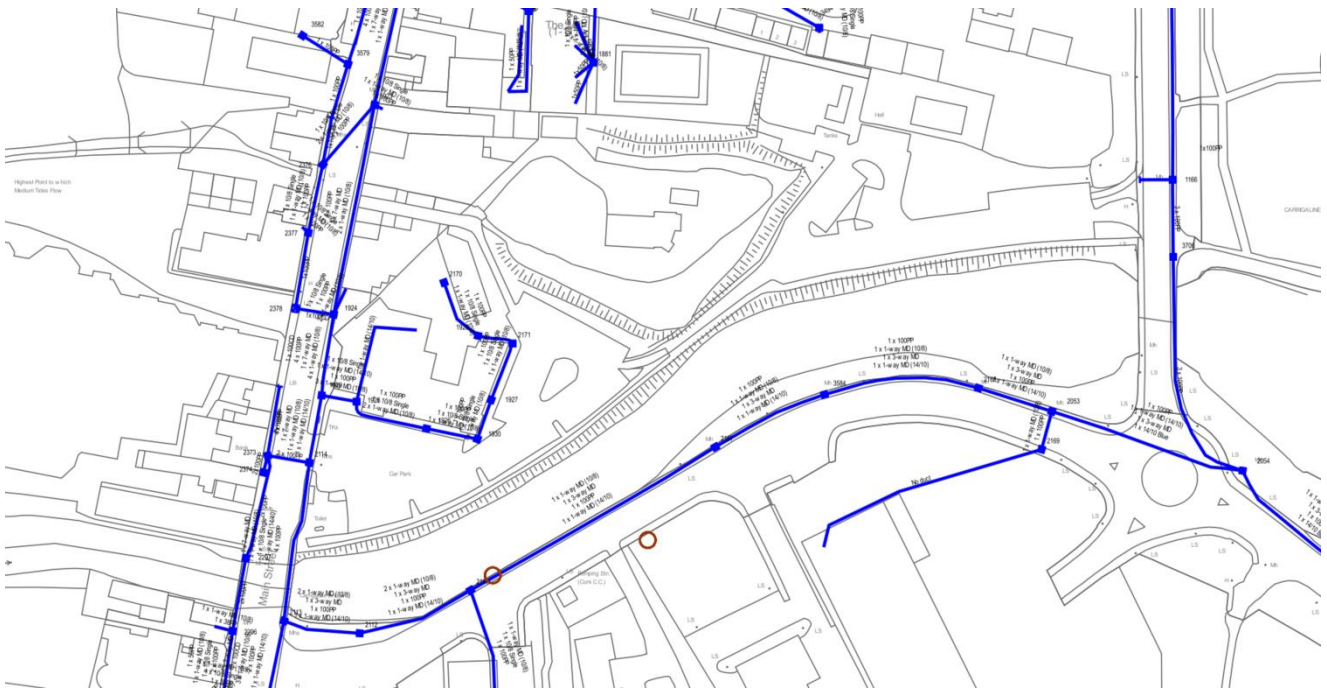
### 2.3. Eir

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**

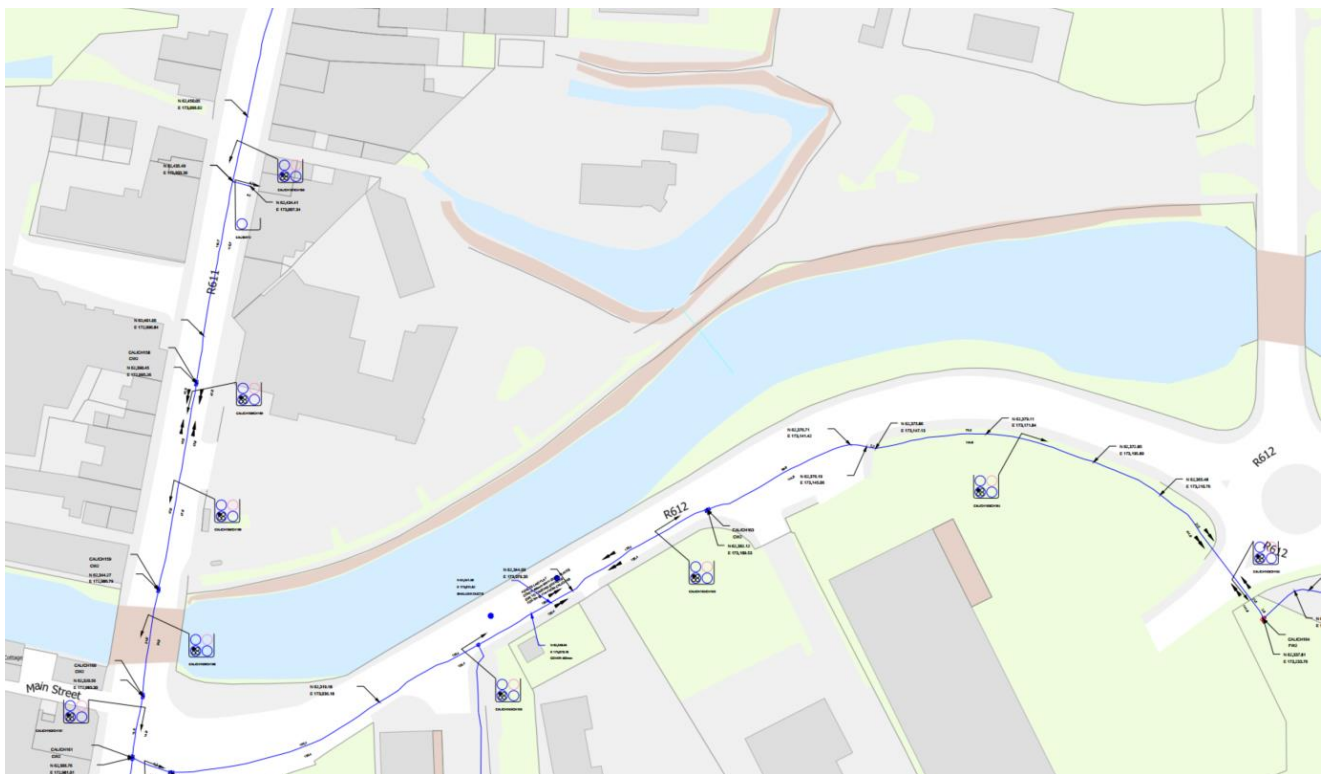
The proposed works will be considerate of the Eir assets and any necessary works to/near the Eir infrastructure will be progressed in consultation with the Eir.

## 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**

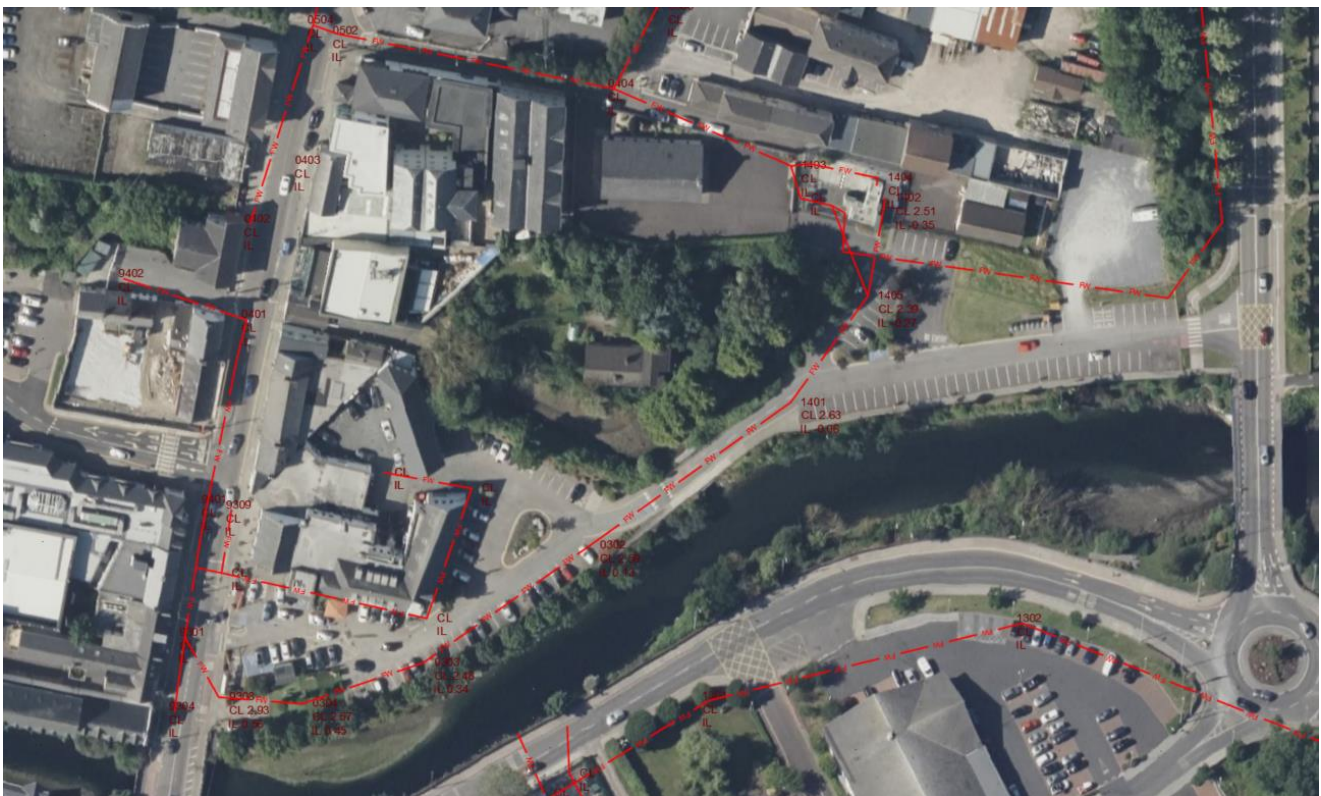
The proposed works will be considerate of the Enet assets and any necessary works to/near the Enet infrastructure will be progressed in consultation with the Enet.

## 2.5. Wastewater

Irish Water have provided a map of their existing wastewater assets within the vicinity of the proposed site, see Figure 2-7.

Irish Water Wastewater records indicate the following:

- The Old Water Pumping Station is located north of the existing car park, right next to the funeral home.
- There is a 300mm gravity sewer running along the eastern side of Main Street.
- There is a 150mm gravity sewer running around the perimeter of the cluster of commercial buildings, which ties into the 300mm sewer on Main Street.
- There is a 300mm uPVC gravity sewer running west to east/northeast along the southern boundary of the site, in line with the Owenabue river to ultimately discharge to the Old Waterpark Pumping Station.
- The Old Waterpark Pumping Station also receives flows from a 375/450mm gravity sewer from the northwest.
- There is a wastewater rising main that runs from the Old Waterpark Pumping Station to the east as far as the junction between the car park and the R612 before turning north and discharging to a manhole approximately 120m north of the junction.



**Figure 2-7 - Existing Irish Water Wastewater Assets**

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

## 2.6. Watermain

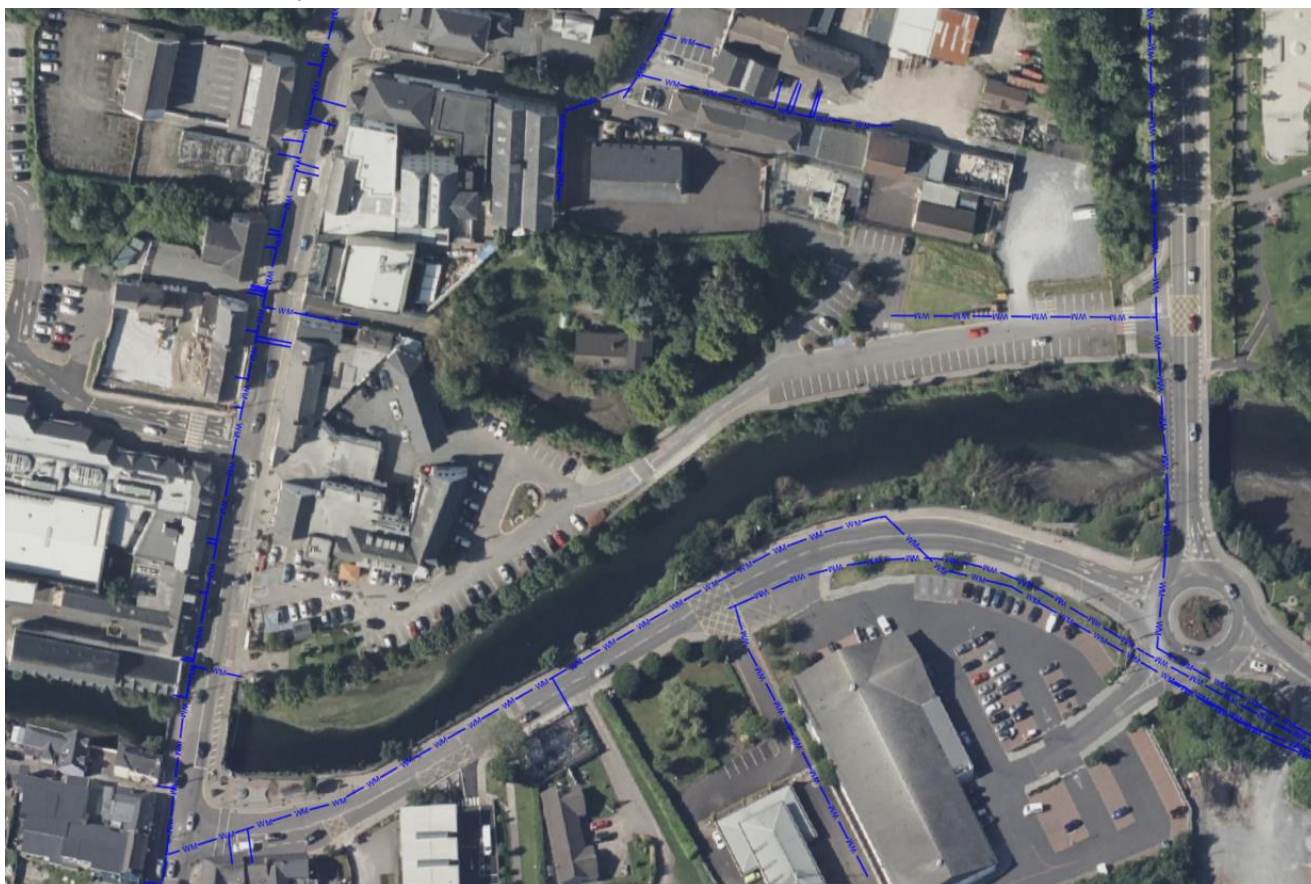
Irish Water have provided a map of their existing watermain assets within the vicinity of the proposed site, see Figure 2-8.

Irish Water Watermain records indicate the following:

- There is a 150mm Ductile Iron Distribution Watermain running along the eastern side of Main Street.
- There is a 450mm Ductile Iron Trunk Watermain running along the eastern side of the R612.



- 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.

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