

Project: Proposed Extension at Rush Multipurpose Youth Centre

Technical Note: Drainage Proposals at Rush Multipurpose Youth Centre

FAO: Paul Flanagan, Flanagan Architects

Project Ref: 181029

Doc Ref: 181029/TN/F01

Date: 05 July 2018

1.0 INTRODUCTION

1.1 Background

1.1.1 This technical note contains information on the surface-water and foul wastewater services for the proposed extensions to Rush Multipurpose Youth Centre.

1.2 Project Scope

1.2.1 The site is located in Rush, Co. Dublin at the junction of Channel Road and Mill Bank. The site is known locally as Martin's shop.

1.2.2 In recent years, the building underwent renovations which involved the demolition of part of the building to the front and an extension to the rear.

1.2.3 It is now proposed to construct an extension in place of the demolished part of the building to the front. This extension will contain a stair, an accessible toilet and a WC at ground floor and a store with Male and Female WCs at first floor.

1.2.4 It is also proposed to construct an entrance lobby to the front of the centre and a small extension to the rear to facilitate a stair to the first floor.

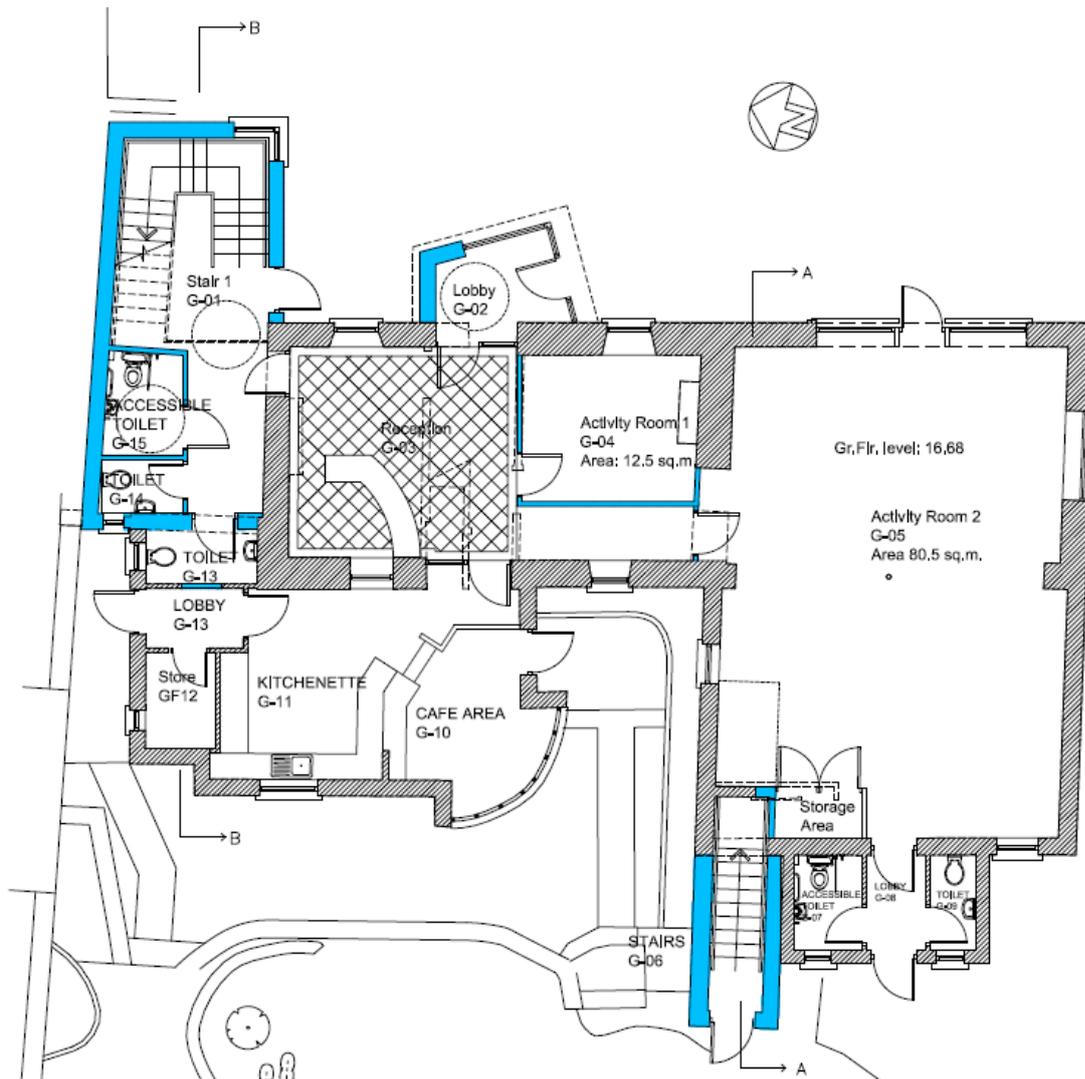


Figure 1-1 Proposed Ground Floor Layout

1.3 Drainage Strategy

- 1.3.1 To the front of the centre, the existing surface is hard-standing and drains to the public surface-water sewers on Channel Road. A channel drain is located along the front wall of the existing premises which is connected to the public sewer.
- 1.3.2 It is proposed to carry out Public Space Landscaping to the front of the building as per Figure 1-2. These landscaping works allow SuDS to be incorporated into the design. The landscaping will use permeable paving to allow rainwater to infiltrate into the ground. Tree pits can also be incorporated around the trees to be planted as part of the landscaping proposals.
- 1.3.3 Rainwater from the front roof will be discharged into the storage area of the permeable paving. An overflow will be incorporated which will allow the permeable paving overflow into the public sewer in excessive rainfall events.

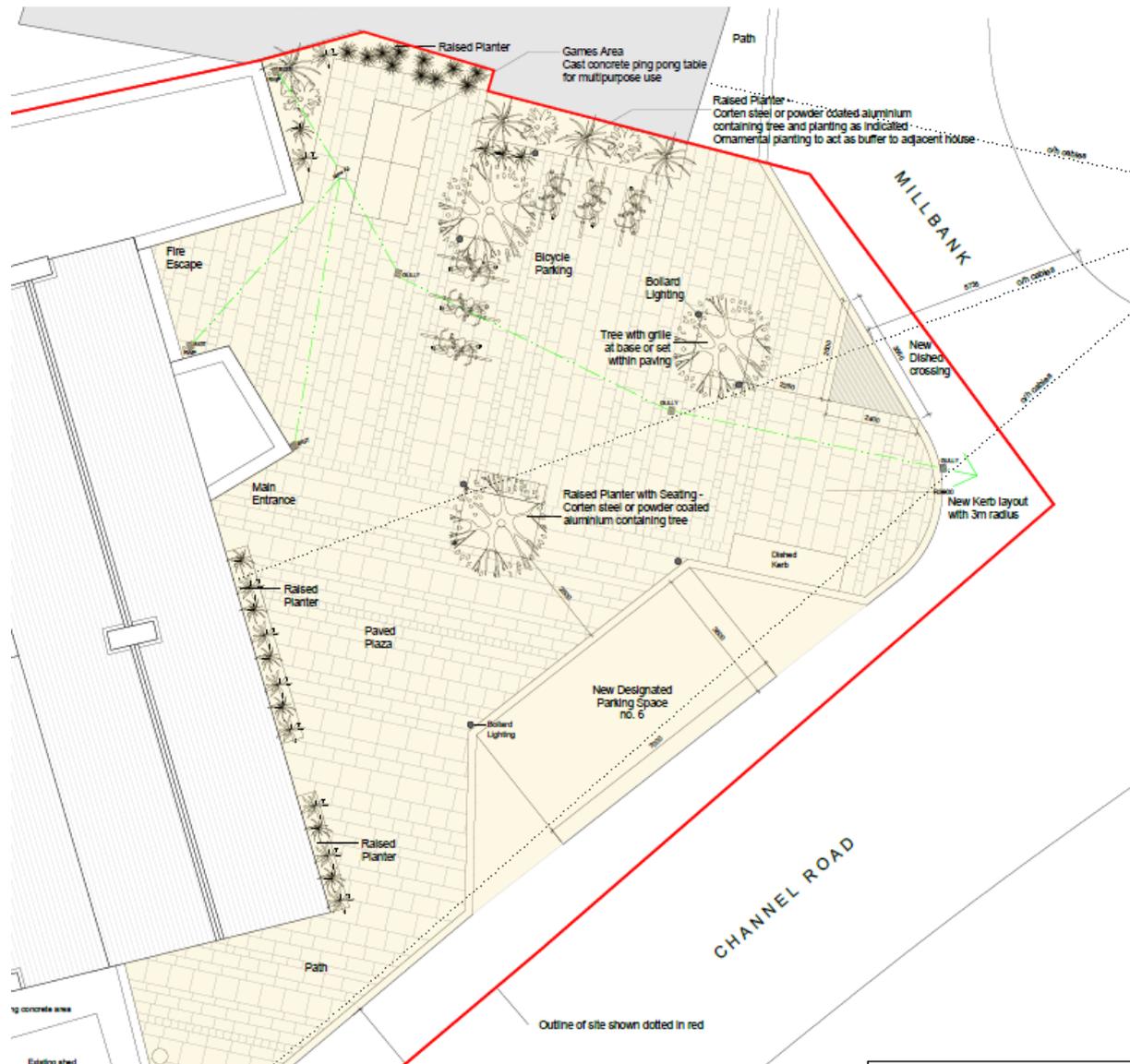


Figure 1-2 Public Space Landscape Design

- 1.3.4 To the rear of the premises, the existing surface-water and foul wastewater services are combined. It is proposed to convert the combined sewer to a foul sewer and install a new surface water sewer. Existing rainwater outlets from the roof will be diverted to the new storm sewer.
- 1.3.5 The existing combined sewer runs through the proposed extension to the rear. This sewer will be diverted around the extension with the existing section to be grubbed up. A wastewater pipe from an existing toilet will also be diverted with the existing grubbed up.

2.0 SUMMARY

2.1 General

- 2.1.1 This technical note sets out the surface water and foul wastewater drainage strategy for the proposed extensions to the Rush Multipurpose Youth Facility.
- 2.1.2 The surface water drainage from the extensions to the front of the dwelling are to be connected to permeable paving storage in the proposed landscaping works to the front of the building. An overflow will be provided to the public storm sewer for excessive events.
- 2.1.3 To the rear, the surface water and foul wastewater are combined. There are some diversions to the combined sewers that are required to facilitate the proposed extension at the rear. A new storm sewer will be installed and the existing combined sewer will be converted to a foul sewer.

Prepared By:



Niall Dennehy BEng Tech BE(Hons) CEng MIEI