

To: DLR Architects Department (Sponsoring Department)

Joanne Maher, Executive Architect.

Re: Stillorgan Library & 2 No. Apartment blocks

Site Location: St. Laurence's Park, Stillorgan

Date: 6th August 2020

Drainage Planning Report

Following a process of engagement by the Sponsoring Department and their Consultants with Drainage Planning, the Sponsoring Department has submitted proposals that generally satisfy the requirements of Municipal Services subject to the following standard conditions, any changes arising from which will not have any material impact from a planning perspective:

1. Prior to the commencement of development, the Sponsoring Department shall submit full dimensioned details of the proposed Green Roofs (area 2,280m²) to Municipal Services for its written agreement. Details shall include a construction plan and a post-construction maintenance specification and schedule, all of which shall be included in the Safety File. Maintenance contractors with specialist training in green roof care should be used. Thereafter, the works shall be carried out in accordance with the agreed details and the green roof shall be maintained at all times in accordance the post-construction maintenance specification and schedule. The Sponsoring Department shall also provide details of maintenance access to the green roofs and should note that in the absence of a stairwell type access to the roof, provision should be made for alternative maintenance and access arrangements such as external mobile access that will be centrally managed.
2. Prior to the commencement of development, the Sponsoring Department shall submit full details of the flow control device, including model and make number, orifice size and flow control hydraulic characteristics graph to Municipal Services for its written agreement. The flow control device will not be permitted to have a bypass door and a penstock must be provided in the manhole in which the flow control device is located.
3. Prior to the commencement of development, the Sponsoring Department shall submit to Municipal Services for its written agreement a revised proposal for the calculation of attenuation storage volumes and proposed controlled outflow rate for the proposed roof and road/parking catchments such that the attenuation volumes provided across the development are adequately sized to achieve the required overall site attenuation storage requirements while restricting the final outflow of the fully developed site to an agreed figure.
4. Prior to the commencement of development, the Sponsoring Department shall submit to Municipal Services for its written agreement fully dimensioned plans and sections of the attenuation storage systems and the linkages between them. All relevant inlet and outlet levels, dimensioned clearances between other utilities, and actual depths of cover to the system shall be provided. Details of the proposed inlet and outlet manholes and arrangements to facilitate draw down and maintenance shall

also be provided. Thereafter, the attenuation storage systems shall be maintained at all times in accordance the post-construction maintenance specification and schedule, which shall be included in the Safety File.

5. As standard, the Sponsoring Department is required to submit to Municipal Services for its written agreement cross sections detailing all utilities and showing the vertical and horizontal separation distances to be provided at all critical locations. Minimum separation distances in accordance with applicable Codes of Practice.
6. Prior to the commencement of development, the Sponsoring Department shall submit to Municipal Services for its written agreement proposals for the diversion of, and maintenance of flows from the 300mm diameter surface water sewer during construction works. Upon completion of works the Sponsoring Department shall carry out a CCTV survey over the full length of such pipe when constructed and shall provide Municipal Services with the results of such survey, together with a satisfactory remediation report (if required), before such pipe system is connected to any receiving pipe or outfall system. The proposed surface water sewer shall, upon satisfactory completion and connection to the public sewerage network, become a public sewer.
7. Prior to the commencement of development, the Sponsoring Department shall submit to Municipal Services for its written agreement a full set of updated drawings and supporting information that incorporate agreed changes and details resulting from compliance with the other requirements of conditions Nos. 1 to 6.

Site Specific Flood Risk Assessment

Based on the information contained in the Site Specific Flood Risk Assessment (SSFRA) submitted by the Sponsoring Department, the conclusions contained therein are accepted and thus the proposed development is considered to be in accordance with Appendix 13 (Strategic Flood Risk Assessment) of the Dun Laoghaire-Rathdown County Development Plan 2016-2022 subject to the following proposed condition:

8. Following a review of the changes arising from compliance with the requirements of conditions Nos. 1 to 6, an updated surcharge analysis of the surface water drainage system will be required with commentary on the significance, if any, of possible surcharges with reference to the freeboard used in the calculations. A further analysis to determine the impact of a 50% blockage in the surface water drainage system will be required and shall be referenced in the Site Specific Flood Risk Assessment.

Signed 
Bernard Egan,
Senior Executive Engineer,
Drainage Planning,
Municipal Services

Date 6th August 2020