

## Drainage Requirements for Planning Applications

Below is a summary of the key requirements of the Drainage Division Planning & Development Control Section for all Planning Applications. Submissions shall meet the standard requirements outlined in the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0 and shall include the following:

- Surface Water Management Plan (SWMP)
- Surface Water Drainage Layout
- Site Specific Flood Risk Assessment

### 1. Surface Water Management Plan

#### 1.1 Sustainable Drainage Systems

- ❑ All new developments shall incorporate Sustainable Drainage Systems with a minimum of a 2 stage treatment approach (The SuDS Manual C753 – Ciria for guidance). Full details of these to be provided and shown on the drawing.
- ❑ Rainwater shall be infiltrated to the ground and/or discharged via a Sustainable urban Drainage System (SuDS) system to a surface water drain or watercourse as per Section 3.2 of the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0.
- ❑ As per the Dublin City Development Plan 2016-2022 the following SuDS should be considered:
  - Green roofs and raised courtyards, Attenuation ponds, swales, wetlands and detention basins, Permeable paving, Infiltration planters, Water butts
- ❑ Landscaping works should be integrated with sustainable urban drainage systems such that landscaping plans may include associated biodiversity areas which can reduce surface water run-off as per the Dublin City Development Plan 2016-2022.
- ❑ Any new paving of driveways areas should be carried out in a sustainable manner so that there is no increase in surface water run-off to the drainage network as per the Dublin City Development Plan 2016-2022.
- ❑ All car parks with less than 10 spaces shall be designed so that there is no reduction in quality of surface water runoff. All car parks with 10 spaces or more shall be designed to ensure surface water runoff is treated to the same standard as that set out in the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0 Section 20.

#### 1.2 Surface Water Drainage Layout

The following shall be indicated on the layout:

- ❑ In general, surface-water discharge should be limited to 2l/s/hectare using a flow control device for both greenfield sites and sites undergoing redevelopment.
- ❑ Attenuation storage is to be provided for a 1/100-year storm at a minimum plus 20% Climate Change, assuming a maximum discharge rate of 2l/s/hectare. Supporting calculations to be provided with submission.
- ❑ Surface water outfall manholes are to be constructed in accordance with the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0.
- ❑ All surface water manholes to be numbered and manhole schedule to be provided on the surface water drainage layout specifying cover and invert levels.
- ❑ Surface water outfall manholes, in general, shall be 1.2 metres to 1.5 metres deep and must be kept within the final site boundary which should be displayed clearly in red.

Please refer to Section 8.8 of the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0.

- ❑ All internal surface water basement drainage must be pumped to a minimum of 1.5m below ground level before being discharged by gravity from the site to the public sewer.

## 2. Flood Risk Management

### 2.1 Site Specific Flood Risk Assessment

- ❑ An appropriate flood risk assessment should be carried out for the development. The flood risk assessment should identify and quantify the potential risks from all sources including coastal, fluvial, pluvial (direct heavy rain), flooding from public sewers, and groundwater. Reference should be made to the Greater Dublin Strategic Drainage Study (<http://www.dublincity.ie>), the OPW document 'The Planning System and Flood Risk Management' and the OPW flood maps (<http://www.floodmaps.ie>), the Dublin City Development Plan 2016-2022 Strategic Flood Risk Assessment and the impact of 20% Climate Change. The developer / architect shall confirm to the Drainage Division that the development has been designed such that the risk of flooding has been minimised.
- ❑ Developments located in Flood Zone A/B should reference the Flow Charts and Justification Tables that form up part of the Strategic Flood Risk Assessment.

## 3. Standard Requirements

- ❑ Attenuation tanks are not permitted under pavements or roadways. Please refer to Section 16.6 of the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0.
- ❑ Surface water runoff from public areas should not be attenuated in private systems.
- ❑ Where a connection is proposed to a private drain, the developer must submit a letter from the architect stating that permission has been granted from all owners of the private drain for such a connection, and confirming that the connection complies with the relevant Building Regulations.
- ❑ Where the development consists of a number of separate apartment/office blocks, the collector surface water manhole from each block should be constructed as a standard outfall manhole inside the block boundary.
- ❑ No structure shall be constructed over the line of a public surface water sewer.
- ❑ A **minimum** clearance distance of 3 metres shall be maintained between the edge of public surface water sewers and all structures on site, including boundary walls and attenuation tanks. This distance shall be agreed with DCC Drainage Division.
- ❑ All pipelines/gullies/drainage works? proposed to be taken-in-charge by Dublin City Council must be clearly demarcated and comply with our Greater Dublin Regional Code of Practice for Drainage Works Version 6.0. Please refer to Section 5 for further detail.
- ❑ All pipes to be constructed in pavements and roadways (both inside and outside the site) must be of minimum diameter 225mm and made of concrete or clayware. Please refer to Section 11 of the Greater Dublin Regional Code of Practice for Drainage Works Version 6.0 and NRA specifications.

The Greater Dublin Regional Code of Practice for Drainage Works can be downloaded from <http://www.dublincity.ie/WaterWasteEnvironment/WasteWater/Pages/GDSDSCodeofPractice.aspx>

The Dublin City Development Plan 2016-2022 Strategic Flood Risk Assessment can be downloaded from  
[http://www.dublincity.ie/sites/default/files/content/Planning/DublinCityDevelopmentPlan/Documents/DCCo\\_DevelopmentPlan\\_Vol7.pdf.pdf](http://www.dublincity.ie/sites/default/files/content/Planning/DublinCityDevelopmentPlan/Documents/DCCo_DevelopmentPlan_Vol7.pdf.pdf)

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