BARNHILL GARDEN VILLAGE

Sustainable Urban Drainage Systems Plan

sc 1/1500

SUDs Pillars

Water Quantity - Controlling the quantity of runoff to support the management of flood risk and maintain and protect the natural water cycle.
Water Quality - Managing the quality of the runoff to prevent pollution.
Amenity - Creating and sustaining better places for people.
Biodiversity - Creating and sustaining better places for nature.

Suds reduce the impact of new construction by replicating natural drainage systems, as they have a low environmental impact and collect, store, filter and clean water before releasing it back into the environment.

Site controlled SuDs cover the entire development site and tend to include larger scale methods mixed with the smaller scale products. They include:

Detention basins – A depression covered with vegetation to hold rainfall and slowly drain it.
Retention ponds – A larger depression which stores water, even during dry conditions.
Wetlands – A vegetative area with shallow ponds and marshland.
Swale
Permeable paving
Filter drains

Indicative SUDs

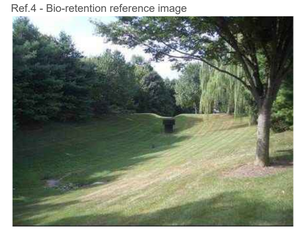
- Proposed infiltration area under grass pitch
- Proposed wetland pond
- Rain gardens
- Bioretention area
- Sedum roofs
- Existing ditch
- Permeable surface
- Proposed green areas

Ref.1 - Wetland pond reference image

Ref.2 - Rain Garden reference

Ref.3 - Green / blue roof reference image

Ref.4 - Bio-retention reference image



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REV	DATE	REVISION	DRAWN	CHECKED
G	27/06/22	SUDs	PS/AP	JG

CLIENT
Alanna Homes & Alcove Ireland Four Ltd.

PROJECT TITLE
Barnhill Garden Village - Proposed development at Barnhill, Clonsilla, Co.Dublin

PROJECT ARCHITECT
CDP Architects / CWOB Architects / Delphi Design

SHEET TITLE
Sustainable Urban Drainage Systems Plan

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