Possible existing underground electricity services present in this area.

Proposed offline geocellular crate attenuation 01
Attenuation Volume TBC in SAB full application stage

Proposed lined permeable flag paving (Rear Footpath)

Possible existing gas main present in this area.

Proposed Flow Control 02
ACO Q-plate Orifice (or similar)
To discharge to Qbar or SAB approved flow rate. TBC in SAB full application stage.

Surface water sewer connection depth TBC with further drainage CCTV survey.

Foul water sewer connection depth TBC with further drainage CCTV survey

RWP to discharge to RWH device and overflow to permeable slab paving surface

Plot 01
FFL
84.000mAOD

RWP to discharge to lined rain garden 01

Proposed lined rain garden 01
Area: 3m²

Proposed lined rain garden 02
Area: 5m²

Plot 02
FFL
83.000mAOD

RWP to discharge to RWH device and overflow to permeable slab paving surface

RWP to discharge to lined rain garden 02

Proposed offline geocellular crate attenuation 02
Attenuation Volume TBC in SAB full application stage

Proposed lined permeable flag paving (Rear Footpath)

Proposed Flow Control 02
ACO Q-plate Orifice (or similar)
To discharge to Qbar or SAB approved flow rate. TBC in SAB full application stage.

Possible existing gas main present in this area

Foul water sewer connection depth TBC with further drainage CCTV survey.

S104 and S106 to be agreed with DCWW prior to connection to public sewer.

Surface water sewer connection depth TBC with further drainage CCTV survey.

PROPOSED DRAINAGE LAYOUT
Scale: 1:50

Proposed Surface Water Drainage Strategy:
The proposed surface water drainage strategy will be submitted for SAB application and shall comprise with SuDS Statutory standard as concluded below. SAB full pplication to be approved prior to construction.

Statutory Standard S1 *Surface Water Destination* Overview - It is proposed to discharge the surface water runoff from the development to the existing surface water sewer located on Ridgeway Hill. A S106 agreement shall be agreed with DCWW prior to the surface water sewer connection.

Statutory Standard S2 *Hydraulic Control* Overview - It is proposed to restrict runoff from the proposed development to a maximum flow rate to the equivalent greenfield runoff rate for the site hardstanding area for all rainfall events up to and including the 1 in 100yr +40% climate change and 10% Urban Creep allowance. The proposed restricted flow rate is to be confirmed with SAB.

Statutory Standard S3 *Water Quality* Overview - It is proposed to utilise SuDS features in accordance with the CIRIA C753 Simple Index Approach to provide suitable mitigation measures.

Statutory Standard S4 *Amenity* Overview - It is proposed to maximise the amenity offered by SuDS components by optimising the location of the rain garden areas. These features have been located such that they shall be clearly visible to residents, visitors, and the public. It is also proposed to incorporate small rainwater harvesting devices to the dwellings for non potable water use.

Statutory Standard S5 *Biodiversity* Overview - It is proposed to maximise the biodiversity offered by the introduction and planting specification of the rain garden areas. A planting specification will be submitted in the SAB full application to maximise the biodiversity potential on site.

Statutory Standard S6 *Construction & Maintenance* Overview - All proposed drainage components shall be specified such that each feature can be constructed as easily, safely and cost-effectively as practically possible. All of the proposed surface water drainage on site serving the new development shall be privately maintained. All operational and maintenance requirements for the private drainage network will therefore be made clear to the residents who shall be responsible for maintaining the system.

Proposed Foul Water Drainage Strategy:
It is proposed that the foul water from the 2 no. proposed dwellings shall discharge to the DCWW public foul sewer beneath Ridgeway Hill. The proposed lateral drains and demarcation chambers will be offered to DCWW as part of an S104 agreement. An S106 agreement will be required prior to any communication with the public foul sewer.

All onsite private foul drainage serving the development shall be designed in accordance with Building Regulations Approved Document Part H. All adoptable assets will be designed in accordance with Sewers for Adoption 7th/ Edition.

Welsh Water shall confirm the sewer network capacity and location of the proposed sewer prior to construction.

KEY
- SAB Boundary
- Proposed Block Permeable Paving
- Proposed Flag Permeable Paving
- Proposed Private Surface Water Pipe
- Proposed Private Perforated Pipe
- Proposed Private Foul Water Pipe
- Proposed Adoptable Foul Water Pipe
- ACO Proposed Private ACO Drainage Channel
- Existing DCWW Surface Water Sewer
- Existing DCWW Foul Sewer
- Proposed PPIC Type 3 Private Surface Water Chamber
- Proposed PPIC Type 4 Private Surface Water Chamber
- Proposed Private Flow Control Unit
- Proposed PPIC Type 4 Private Foul Water Chamber
- Proposed PPIC Type 3 Adoptable Foul Water Chamber
- RWP Proposed RWP
- RWH Proposed Wall Mounted Rainwater Harvesting Device
- BD Proposed Back Drop
- SVP Proposed SVP (Location TBC by Architect)
- Proposed Rodding Eye
- Proposed Lined Rain Garden
- Proposed Offline Geocellular Crate Attenuation
- Proposed Soft Landscaping

Notes:

1. This drawing is to be read in conjunction with all other Bear Consulting project drawings/ specifications.
2. This drawing has been produced for planning only and is not to be used for construction.
3. Exact location of all apparatus to be determined on site.
4. Topographical survey was provided by the architect.
5. Existing public drainage information was provided from DCWW sewer map and shown partially and approximately in the vicinity of the site.
6. Proposed layout was provided by the architect (Ref: LT2417.04.01 - Site Layout + Floor Plans [Revised] 4.dwg).
7. RWP and SVP locations to be coordinated with Architect prior to construction.
8. Attenuation volume TBC with detailed hydraulic calculations.
9. Final drainage layout and details TBC in SAB full application stage.
10. All levels to be coordinated with Architect prior to detailed design.

Rev.	Date.	Details.	By.	Chk.
D	19/01/26	Amended to suit updated site layout	WH	PC
C	26/09/25	Amended to suit updated site layout	WH	PC
B	27/02/25	Amended plot 01 FFL	WH	PC
A	30/01/25	Amended to suit updated site layout	WH	PC

Amendments

Bear Consulting
Rugged by design
Studio 208 | Creative Quarter | Cardiff | CF10 1AF | United Kingdom

Project:
DWELLINGS AT RIDGEWAY HILL, NEWPORT

Title:
PROPOSED DRAINAGE STRATEGY FOR PLANNING

Drawing Status:
FOR INFORMATION

Drawn:	Checked:	Scale(s) at A1:	
WH	PC	1:50	
Date:	Job No.	Drawing No.	Revision
22/01/2025	P0616	CSK14	D