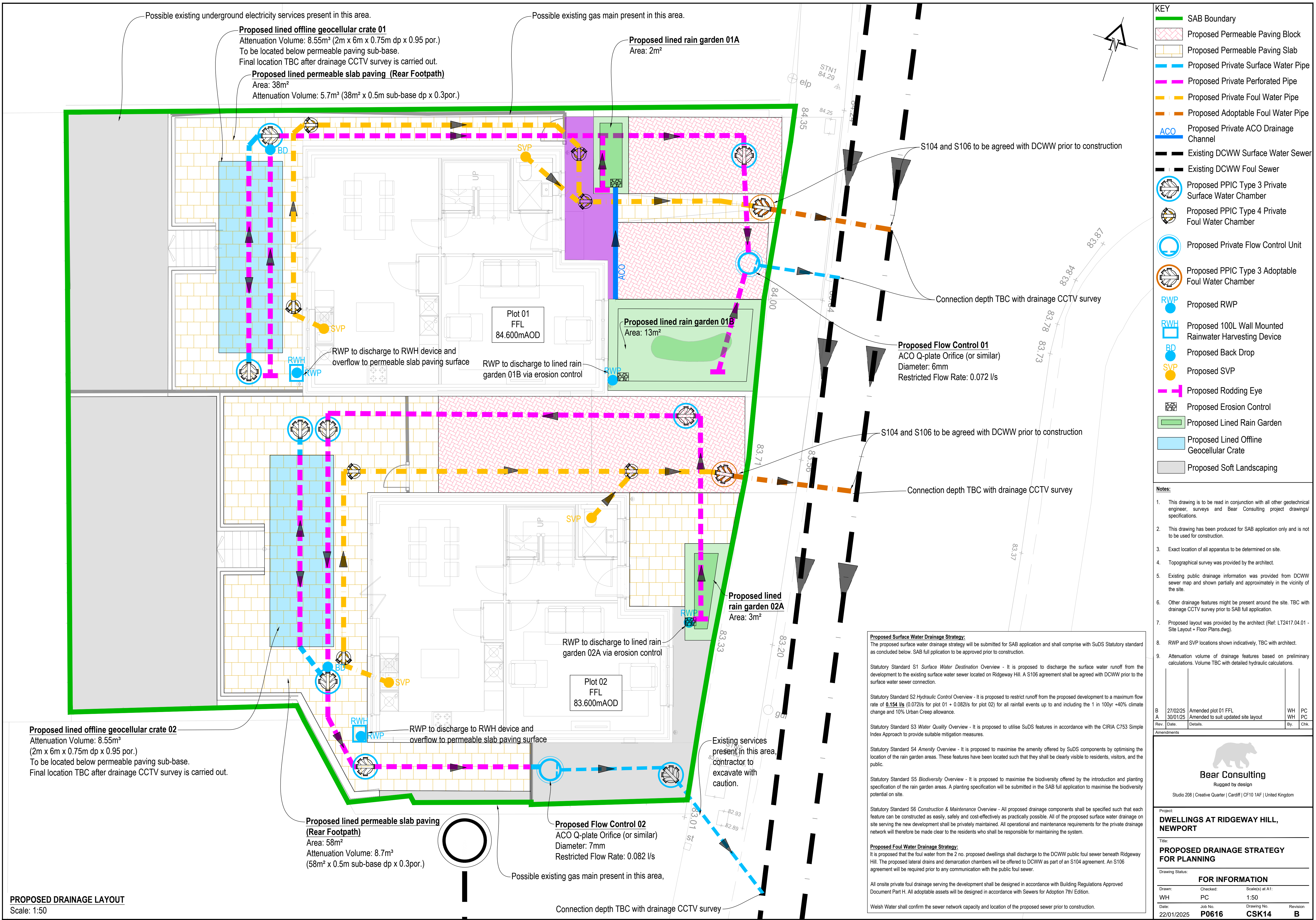




PROPOSED DRAINAGE LAYOUT
Scale: 1:50

KEY

- SAB Boundary
- Proposed Permeable Paving Block
- Proposed Permeable Paving Slab
- Proposed Private Surface Water Pipe
- Proposed Private Perforated Pipe
- Proposed Private Foul Water Pipe
- Proposed Adoptable Foul Water Pipe
- 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 Foul Water Chamber
- Proposed Private Flow Control Unit
- Proposed PPIC Type 3 Adoptable Foul Water Chamber
- Proposed RWP
- Proposed 100L Wall Mounted Rainwater Harvesting Device
- Proposed Back Drop
- Proposed SVP
- Proposed Rodding Eye
- Proposed Erosion Control
- Proposed Lined Rain Garden
- Proposed Lined Offline Geocellular Crate
- Proposed Soft Landscaping

- Notes:**
- This drawing is to be read in conjunction with all other geotechnical engineer, surveys and Bear Consulting project drawings/specifications.
 - This drawing has been produced for SAB application only and is not to be used for construction.
 - Exact location of all apparatus to be determined on site.
 - Topographical survey was provided by the architect.
 - Existing public drainage information was provided from DCWW sewer map and shown partially and approximately in the vicinity of the site.
 - Other drainage features might be present around the site. TBC with drainage CCTV survey prior to SAB full application.
 - Proposed layout was provided by the architect (Ref: LT2417.04.01 - Site Layout + Floor Plans.dwg).
 - RWP and SVP locations shown indicatively, TBC with architect.
 - Attenuation volume of drainage features based on preliminary calculations. Volume TBC with detailed hydraulic calculations.

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

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.
22/01/2025	P0616	CSK14
		Revision
		B

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 application 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 of **0.154 l/s** (0.072l/s for plot 01 + 0.082l/s for plot 02) for all rainfall events up to and including the 1 in 100yr +40% climate change and 10% Urban Creep allowance.

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.

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.