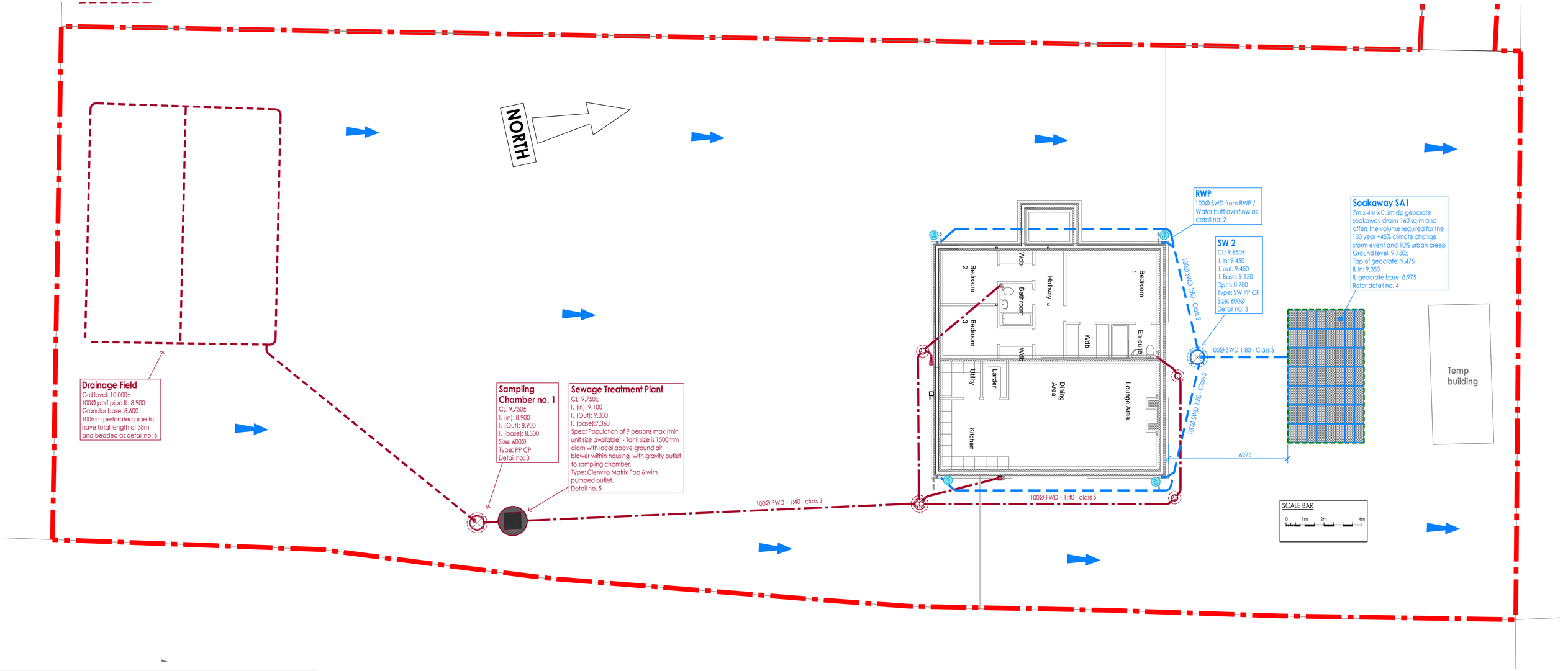


DRAINAGE STRATEGY
FOUL & STORM WATER DESIGN -

GENERAL - The drainage scheme shown is designed to accompany the planning application and for storm water uses the recommendations found in the new National SuDS Design Guidance of July 2025.

STORM DESIGN - The existing site is currently green field within the applicants land. The site is within a flood zone 1.

The drainage hierarchy for SuDS design has been considered and reuse of rainwater has been provided where practicable for the client. The site has proven to infiltrate to ground as supported by in situ test results received from the clients builder and an infiltration design f rate for design of 1.148 x 10^{-5} m/s has been established.

All rainwater infiltrates to the ground via geocrate soakaways which have been sized to provide sufficient storage for the 100 year + 45% climate change storm event. An appropriate factor safety of 1.5 has been used for the infiltration rate complying with Table S3.1 of the National SuDS Standard of July 2025.

The soakaway volume has been established using CIRE 753 Suds Manual chapter 26.0 formulae for plane infiltration systems and incorporates a 10% urban creep allowance as recommended in clause 3.33 of the National SuDS Standard of July 2025.

All external areas shall be permeable construction designed by others.

DESIGN EXCEEDANCE FLOWS - The site falls north to south with design exceedance flowing towards the neighbouring land to the north.

MAINTENANCE AND MAINTENANCE PLAN -

- All rainwater hopperheads, pipes and gutters should be cleaned twice a year.
- Empty and clean any rainwater butts yearly.
- Empty and clean catchpits twice a year
- All pipes should be cleaned/jetted once every two years.

FOUL WATER - The foul drainage from the new house will be connected to a new 9 person population sewage treatment plant manufactured to BS En 12566 treating effluent to reach a standard of 96.2% efficiency rating and offering a quality of 11mg/lit BOD; 16mg/lit Suspended solids & 5.8 mg/lit NH4-N (Ammonia) which exceed the standard 20:30:20 standard required by the Royal Society of Health all as a Matrix plant as manufactured by Clenviro Ltd.

The outfall will connect to a drainage field which has been tested in situ to support a Vp of 29 s/mm and requiring a drainage field perforated pipe length of 3m.

No environmental permit is required by the Environment Agency as the system complies with the general binding rules.

NEW SW DRAINAGE FEATURE KEY

- PROPOSED PP SW CP AS DETAIL No. 4
- GEOCELL SOAKAWAY AS DETAIL No. 5
- PROPOSED RWP WITH WATER BUTT AS DETAIL No. 2 (WB)
- DESIGN EXCEEDANCE FLOW DIRECTION

DRAIN / SEWER PIPELINE KEY

- NEW FWD/FWS
- NEW SWD/SWS

This is drawing is copyright and remains in the ownership of Simon Dent Associates (SDA)

This drawing should be read in conjunction with the design team's relevant documents, drawings & details.

Existing public & private utility services and drainage locations shown have been derived from non-intrusive survey techniques. Their location is not accurate and the contractor must satisfy himself using open excavation where the location of such plant and apparatus is critical in construction.

If the contractor has constructed from this drawing without necessary approvals from Local Planning Authorities, Building Control, Sewerage Undertakers, Environment Agency etc then any abortive work shall be at his own financial risk and not the responsibility of SDA.

If the contractor has constructed from this drawing whilst the drawing remains 'PRELIMINARY status, then any abortive work shall be at his own financial risk and not the responsibility of SDA.

The contractor should NOT construct any works should there be any doubt with information shown from any of the source. ALWAYS USE GIVEN DIMENSIONS ONLY. ALWAYS ASK IF IN DOUBT.

ALWAYS PRINT THIS DRAWING IN COLOUR

Rev	Description	Date	Chkd
P2	Soakaway note clarified and distance indicated.	09.03.2026	SAD
P1	PRELIMINARY ISSUE	14.01.2026	SAD

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Project: The Lodge 10 Highfields Brighton Road Warninglid RH17 5SY

Drawing title: Proposed Site Drainage

Drawing status: PLANNING ISSUE

Project no	Scales	Drawing no	Rev
25065	A1 - 1:100 A3 - 1:200	100	P2