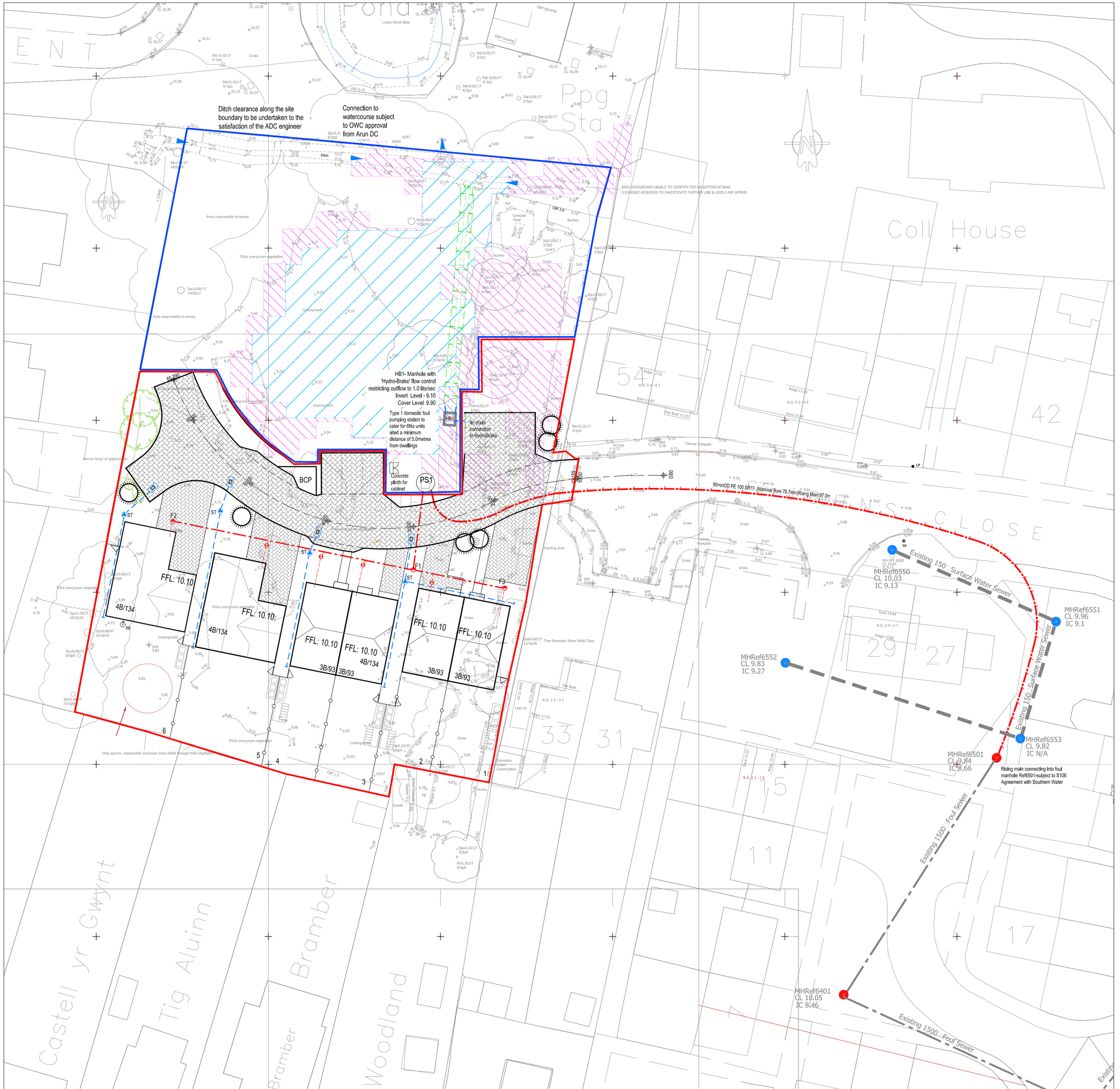


SURFACE WATER DRAINAGE:

Surface water drainage proposals will embrace the SUDS (Sustainable Drainage System) philosophy.
Winter groundwater monitoring and geotechnical investigations have shown that the underlying ground is not suitable for the use of infiltration methods for the disposal of surface water. In accordance with the SuDS hierachy, discharge into the adjacent watercourses is proposed. Total discharge from the site will be restricted to the 'greenfield' run off rate of 1.0lits/sec agreed with Arun DC discharging into the existing watercourse north of the development area. Surface water flow will be attenuated for the 1 in 100 year storm event with an additional 45%, to cater for climate change, as specified by the Environment Agency guidance and an additional 10% of the residential dwellings area to allow for 'urban creep'.
The calculated storage volume will be contained in the granular sub base under the carriageway and parking areas prior to discharging to the outfalls thorough a 'Hydro Brake' limiting the discharge to the agreed rate. The sub base will be contained in an impermeable liner which will contain the stored attenuation volume.
In order to provide additional 'water quality management' for the surface water run off from the developed area the restricted outflow from the HydroBrake will discharge along a swale/ditch connecting into the receiving watercourse.

FOUL WATER DRAINAGE:

The proposed development will discharge to a Type 1 pumping station with a rising main connection into the public sewer, subject to a Section 106 Agreement with Southern Water.

LEGEND:

Surface Water Drainage Legend:

- Ref1302 — Existing surface water sewer
- Domestic surface water drain.
- S1 — TYPE 3 - 450mm Ø with B125 cover
- ST1 — TYPE 5 - 450mm Ø Silt Trap with B125 cover
- HB1 — Manhole with 'Hydro Brake' limiting discharge to 1.0lits/sec outfall
- Diffuser to discharge surface water into the sub grade attenuation
- Formpave fin drain collecting discharge from attenuation connecting to HydroBrake manhole
- New swale/ditch connecting to watercourse subject to OWC with Arun DC
- Ditch flow direction indicated

Foul Water Drainage Legend:

- Ref1302 — Existing foul water sewer
- F8 — Domestic foul water sewer and manholes
- Domestic foul water rising main
- F4 — Type 3 - 450mm Ø with B125 cover

Key:

- Permeable block paved carriageway construction with lined sub base attenuation storage min depth 460mm
- Permeable block paved domestic drive construction with lined sub base attenuation storage min depth 460mm

- Full extent of 1 in 1000 year flood + Climate Change
- Full extent of 1 in 100 year flood + Climate Change

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
CDM Regulations 2015

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

- Working in vicinity of live highway
- Services to be located prior to any excavation work being undertaken
- Working on live foul sewers
- Deep excavations

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement. Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

Rev.	Date	Details	Initials
D	15.09.26	Revised flood areas added	KN
C	14.05.26	Minor layout adjustments in line with architect revisions	KN
B	29.04.26	Layout amended to 6 units	KN
A	29.08.25	First issue	KN

Drawing Status: PRELIMINARY

Project: St. JOHNS CLOSE
ALDINGBOURNE

Client: BRIARSGATE HOMES

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Drawing Title: Engineering Details
Drainage Strategy Layout

Drawn	Checked	Scales	Paper Size	Date
KN		1:250	A1	08.25

Job No.	Drawing No.	Revision
KNC2128	602-03	D

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