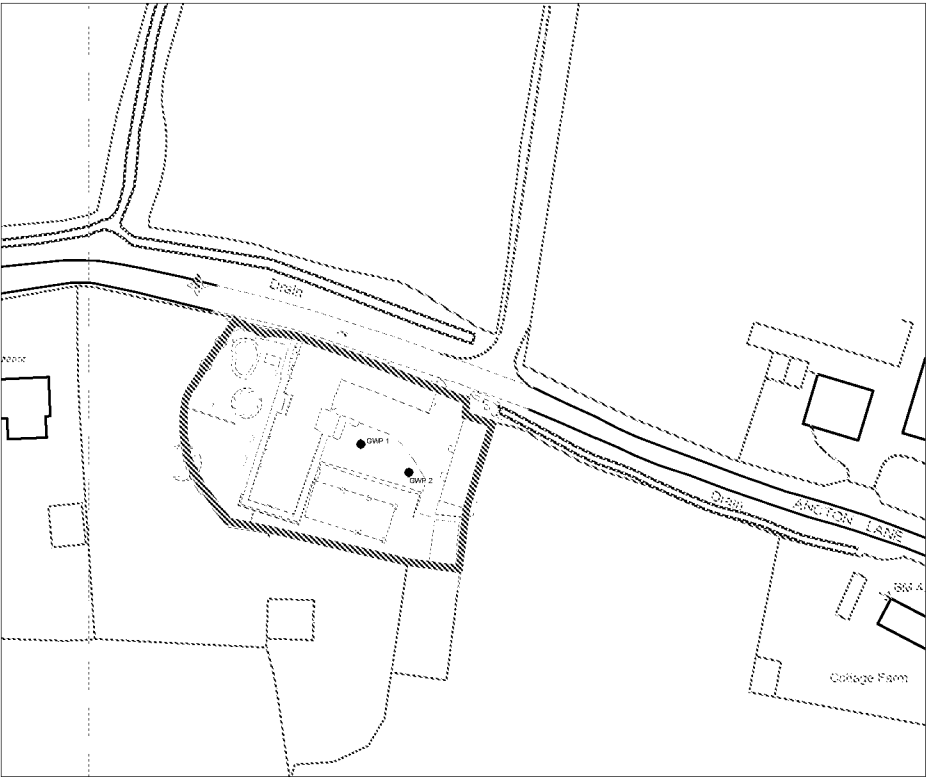
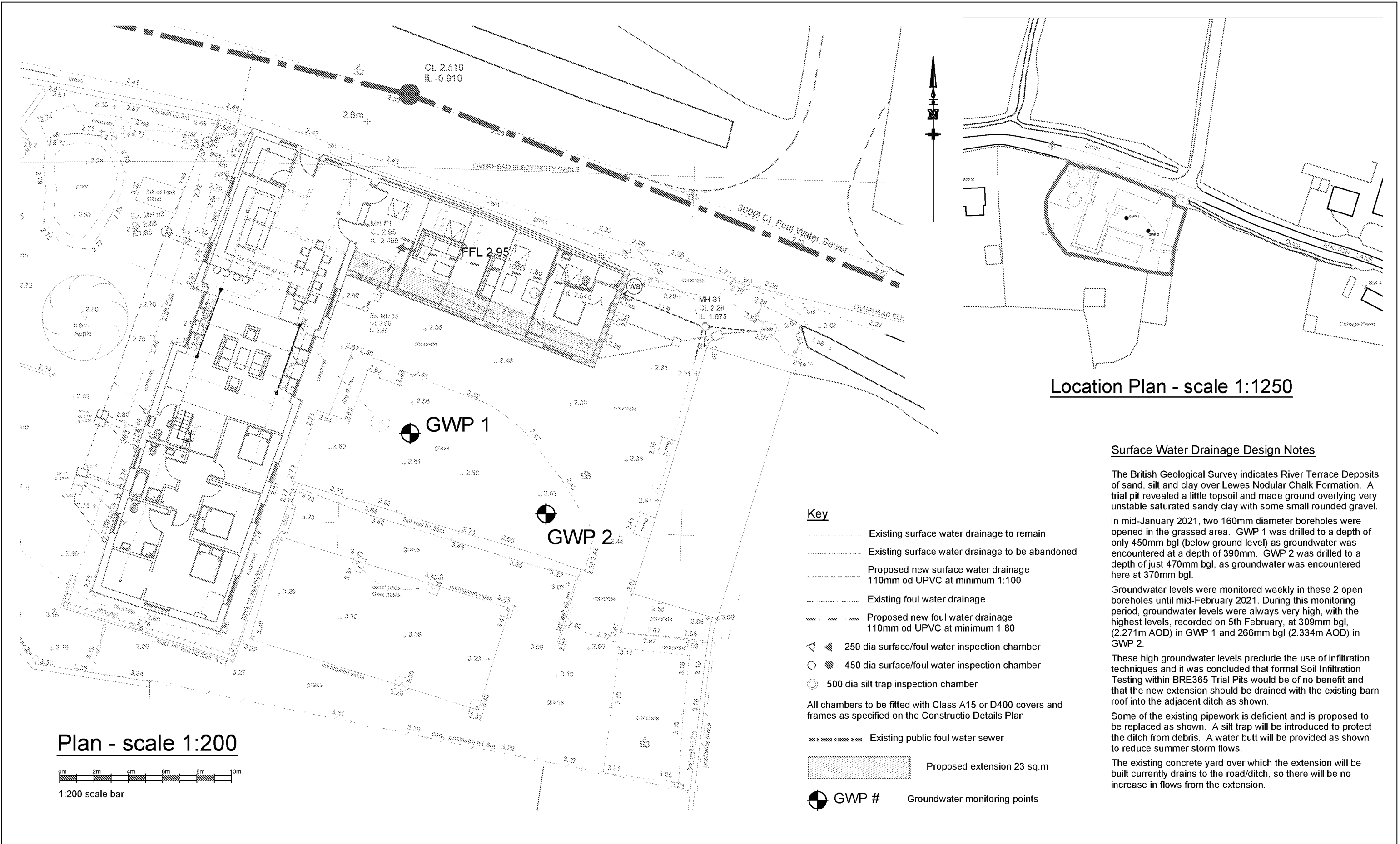




Location Plan - scale 1:1250

Key

- Existing surface water drainage to remain
- Existing surface water drainage to be abandoned
- Proposed new surface water drainage 110mm od UPVC at minimum 1:100
- Existing foul water drainage
- Proposed new foul water drainage 110mm od UPVC at minimum 1:80
- 250 dia surface/foul water inspection chamber
- 450 dia surface/foul water inspection chamber
- 500 dia silt trap inspection chamber

All chambers to be fitted with Class A15 or D400 covers and frames as specified on the Constructio Details Plan

- Existing public foul water sewer
- Proposed extension 23 sq.m
- GWP # Groundwater monitoring points

Surface Water Drainage Design Notes

The British Geological Survey indicates River Terrace Deposits of sand, silt and clay over Lewes Nodular Chalk Formation. A trial pit revealed a little topsoil and made ground overlying very unstable saturated sandy clay with some small rounded gravel.

In mid-January 2021, two 160mm diameter boreholes were opened in the grassed area. GWP 1 was drilled to a depth of only 450mm bgl (below ground level) as groundwater was encountered at a depth of 390mm. GWP 2 was drilled to a depth of just 470mm bgl, as groundwater was encountered here at 370mm bgl.

Groundwater levels were monitored weekly in these 2 open boreholes until mid-February 2021. During this monitoring period, groundwater levels were always very high, with the highest levels, recorded on 5th February, at 309mm bgl, (2.271m AOD) in GWP 1 and 266mm bgl (2.334m AOD) in GWP 2.

These high groundwater levels preclude the use of infiltration techniques and it was concluded that formal Soil Infiltration Testing within BRE365 Trial Pits would be of no benefit and that the new extension should be drained with the existing barn roof into the adjacent ditch as shown.

Some of the existing pipework is deficient and is proposed to be replaced as shown. A silt trap will be introduced to protect the ditch from debris. A water butt will be provided as shown to reduce summer storm flows.

The existing concrete yard over which the extension will be built currently drains to the road/ditch, so there will be no increase in flows from the extension.

-	Original			RTC	5.6.21
Rev.	Description	App.	Chk.	Dm.	Date

Project
Ancton Barn
Ancton Lane
Middleton-on-Sea
PO22 6NJ

Client
James Baderman

Drawing Title
Drainage Layout

Note
This drawing has been produced for discharge of planning conditions only. All levels and details to be checked for Building Regulations approval and construction purposes

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Scale	As shown	At original	A3
Drawing Number	2107/D1		Revision -