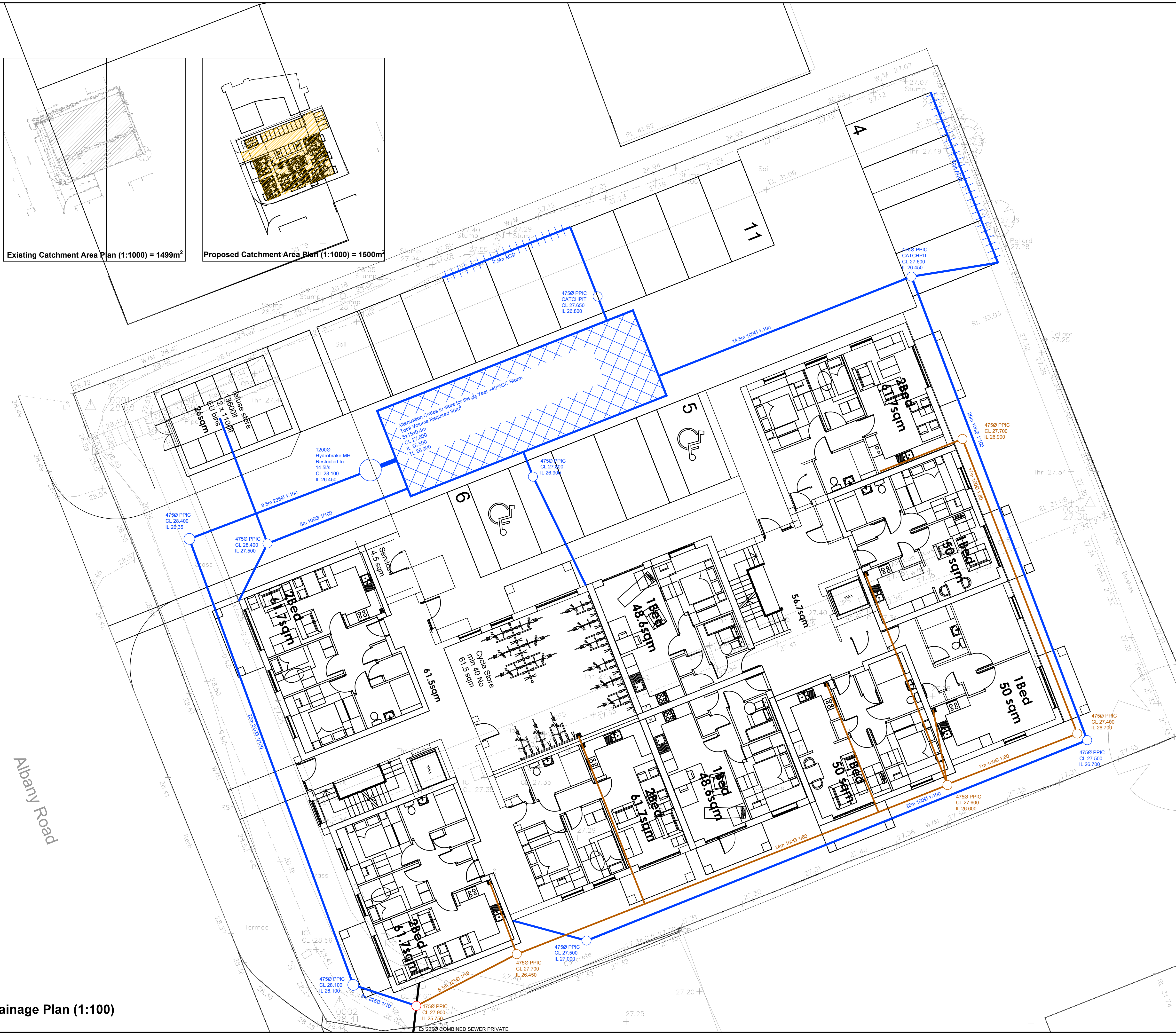
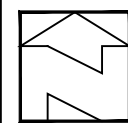




Proposed Drainage Plan (1:100)

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Notes:

1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings.
2. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**Key:**

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Combined Sewer
- Existing UU Sewer

RWP AND SVP/FOUL CONNECTIONS ARE SUBJECT TO FINAL CONFIRMATION BY ARCHITECT

Drainage Strategy

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. An assessment will be made of ground conditions when the existing building footings are investigated but for the purposes of the strategy and based on nearby applications over recent years the ground is assumed to be not viable for soakaways.

The existing site area is 1499m<sup>2</sup>. As the site is positively drained it is our proposal to discharge to Brownfield Rates with a 30% betterment. 1499 / 3600 x 50 = 20.8l/s therefore 70% betterment is 14.5l/s.

NPPF guidelines require that surface water arising from a developed site should as far as practicable be managed in a sustainable manner to mimic the surface water flows arising from the site prior to development.

Surface Water:

Flow restriction 14.5 l/s

The proposed impermeable area is 1500m<sup>2</sup>. Based on a flow restriction of 14.5l/s and modelling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 40% climate change is 30m<sup>3</sup>.

Attenuation to be provided via **GEO-CELLULAR TANK 5x15x0.4m DEEP WITH 95% VOID RATIO**. The flows will be attenuated using a Hydrobrake (Code); MD-SHE-0180-1460-0400-1460

Surface water to connect to the existing combined sewer on site subject to a PPSE with United Utilities

Foul Water:

Foul water from the proposed new site will connect into the existing combined Sewer on site subject to confirmation with United Utilities

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|-----|-------------|----------|------|
| P1  | FIRST ISSUE | 19.09.22 | RT   |
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|               |                            |          |         |
|---------------|----------------------------|----------|---------|
| Client        | BOWSALL                    |          |         |
| Project       | 4b ALBANY ROAD<br>CHORLTON |          |         |
| Drawing title | DRAINAGE STRATEGY          |          |         |
| Drawn         | RT                         | Chkd     | AD      |
| Contract No.  | 21771                      | Date     | SEPT 22 |
|               |                            | Scale    | 1/100   |
|               |                            | Revision | P1      |