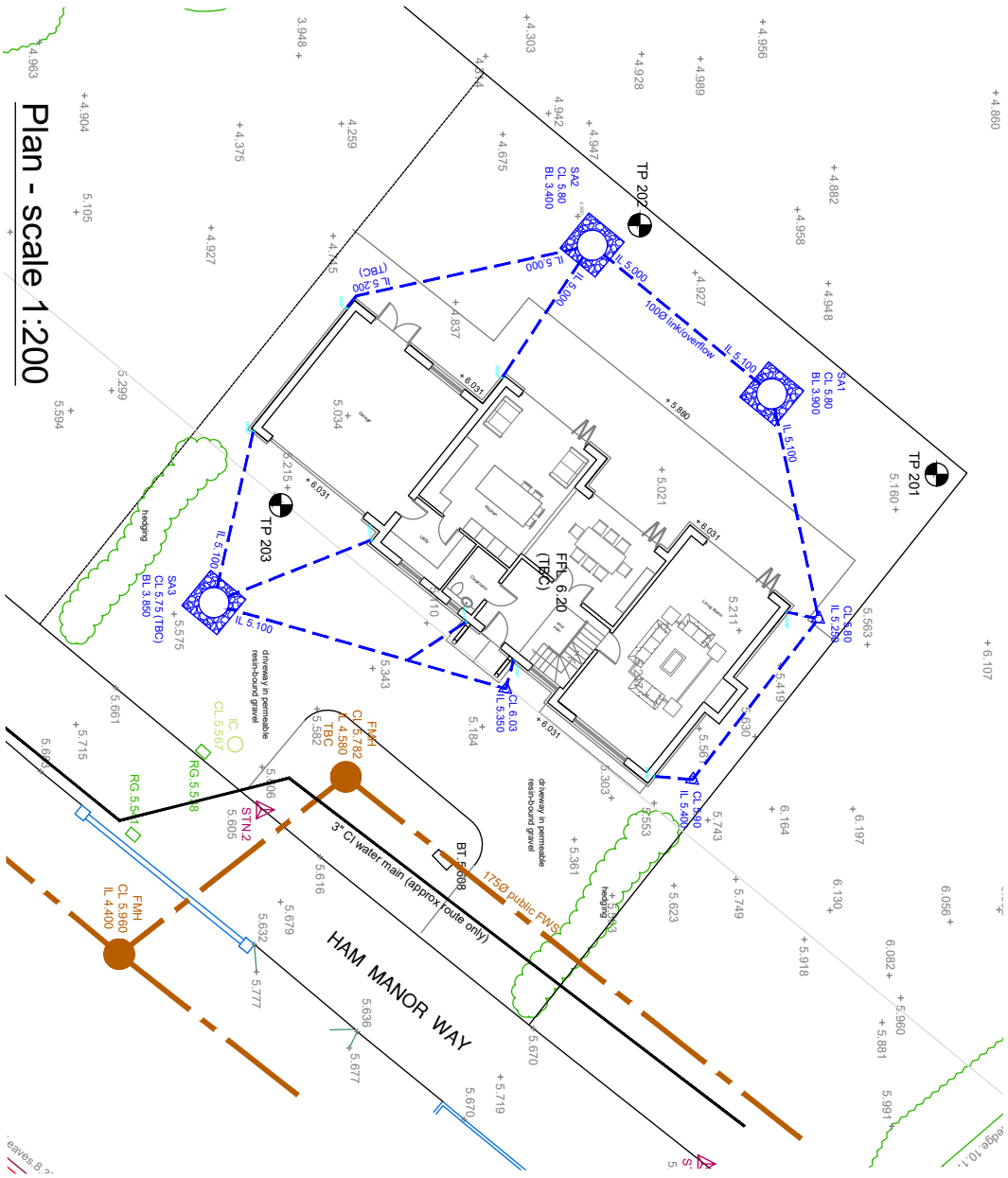




Plan - scale 1:200

Surface Water Drainage Design Notes

Ground conditions here comprise a little Trossil over Head Deposits of brown slightly sandy gravelly clay over the Lewes Nodular Chalk Formation. There was some Made Ground in places. The Head Deposits were found at 0.10 to 0.15m below ground level. The Upper Chalk was encountered as an off-white mottled light orangey brown weak structureless chalk at depths varying between 1.35 and 2.4m below ground level.

The test pits extended to a maximum of 3.2m below ground level and groundwater was only encountered in the base of the deepest pit during investigations carried out by Land Science in early December 2019. Subsequent groundwater monitoring in two boreholes on the site from early September 2019 to February 2020 showed groundwater levels rising to a maximum of 2.75m below ground level in mid December 2019.

The drainage design is based on percolation tests carried out to BRE 365 in three separate test pits by Land Science in early December 2019. Soil infiltration rates varying between 7.57x10<sup>-6</sup> m/s and 3.19x10<sup>-6</sup> m/s were obtained with the lower values obtained at shallow depth in the Head. The lower of these results has been used in the calculations.

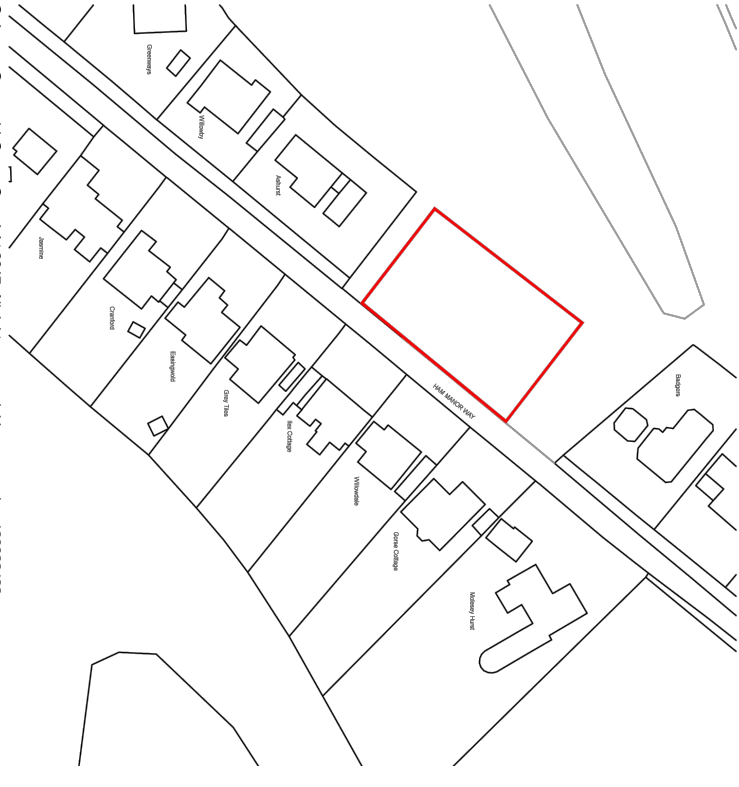
Three 1.2m dia. concrete ring soakways have been designed as shown. These will collect water from roof areas, with the lower soakway (located in the garden) also collecting water from road areas with flooding on a 1 in 100 year rainfall event + 40% climate change addition. The front drive will be in permeable resin-bound gravel.

NOTE  
This drawing has been produced for the purpose of design and construction only. All levels and details to be checked for Building Regulations approval and construction purposes.

Percolation Test Results

|        |                             |
|--------|-----------------------------|
| TP 201 | 7.57 x 10 <sup>-6</sup> m/s |
| TP 202 | 7.57 x 10 <sup>-6</sup> m/s |
| TP 203 | 3.19 x 10 <sup>-6</sup> m/s |

Note: These are the lowest values obtained in each test pit.



Location Plan - scale 1:1250

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Existing ground levels in metres AOD
- Existing public foul water sewer
- Proposed 1.2m dia. concrete ring soakways, depth as specified
- Base level of soakways
- Invert level of surface water drains
- Percolation test points

|                |                                    |
|----------------|------------------------------------|
| Project        | Rond Point Ham Manor Way Angmering |
| Client         | Mr and Mrs Jones                   |
| Drawing Title  | SW Drainage Layout                 |
| Scale          | As shown                           |
| Drawing Number | 2031/SK2                           |
| Rev.           | Original                           |
| Description    | Original                           |
| RTFC           | 5.3.20                             |
| Date           |                                    |