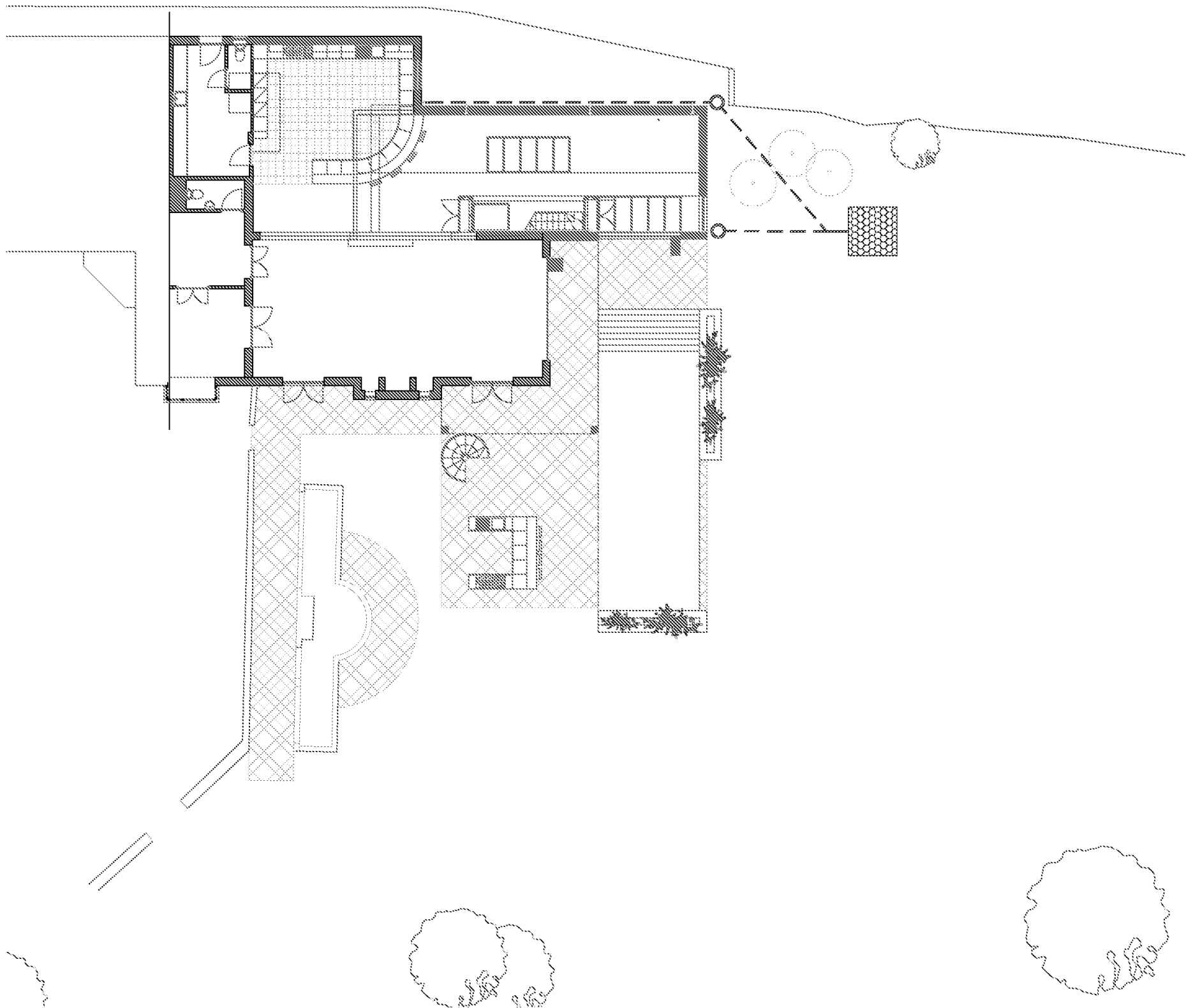




Plan - scale 1:200



Location plan - scale 1:2500

KEY

- Proposed storm drainage
- Proposed silt trap inspection chamber
- Proposed geocellular soakaway  
4sq.m of 1.2m deep geocells

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over Head Deposits (gravel, sand, silt and clay) over Upper Chalk. The Head Deposits were found at 0.25m below ground level and were found to comprise compact angular gravels in a clay matrix. The Upper Chalk was not encountered in test holes that extended to 2.0m below ground level. No groundwater was found during the investigations in early March 2017.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes in March 2017. A minimum soil infiltration rate of  $8.31 \times 10^{-5}$  m/s was obtained.

A rectangular geocellular soakaway has been designed, 2m square x 1.2m high, which will be suitable to drain a roof area of 130 sq.m without flooding on a 1 in 100 year rainfall event + 40% climate change addition. The soakaway should be sited a minimum of 5m from any building to avoid any saturation of the ground and settlement affecting adjacent buildings.

|      |             |      |         |
|------|-------------|------|---------|
|      |             |      |         |
| -    | Original    | RTFC | 24.3.17 |
| Rev. | Description | Dm.  | Date    |

|                                                    |
|----------------------------------------------------|
| Project                                            |
| The Thatched House<br>Littleheath Lane<br>Fontwell |

|                        |
|------------------------|
| Client                 |
| Mr J Waites            |
| Drawing<br>Title       |
| Surface Water Drainage |

|                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Robert Clark Associates Ltd<br>Chartered Civil Engineers<br>Willow Cottage, Heme Lane, Rustington<br>West Sussex BN16 3EE<br>T: 01903 776945 E: rca-ltd@rcaclark.net |
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|------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|----|
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| Scale                                                                                                                                    | As shown  | At original | A3 |
| Drawing<br>Number                                                                                                                        | 1727/D1.1 | Revision    | -  |