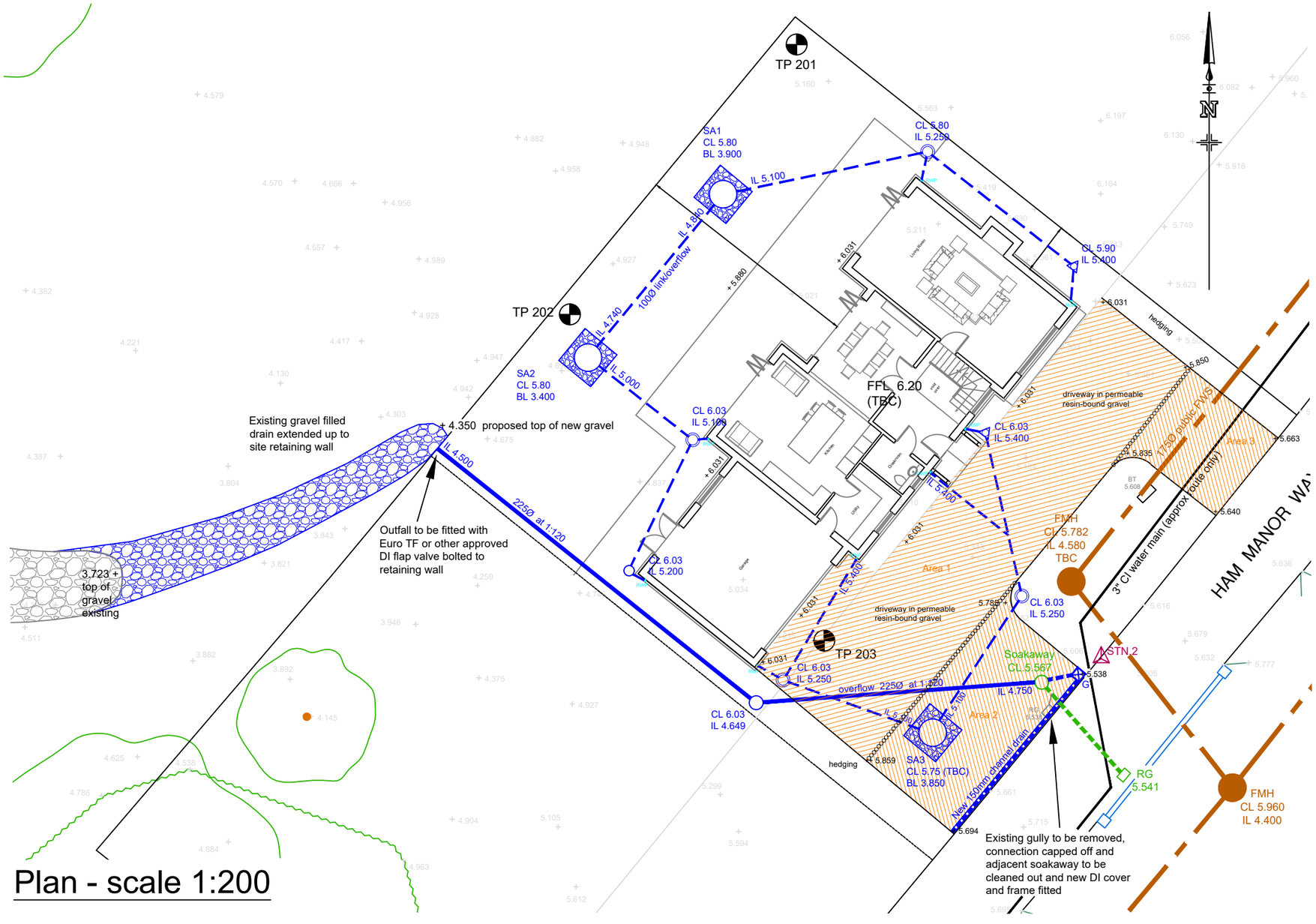

Plan - scale 1:200

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Location Plan - scale 1:1250

NOTE

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

Percolation Test Results

TP 201	7.57×10^{-4} m/s
TP 202	5.04×10^{-4} m/s
TP 203	3.19×10^{-5} m/s

Note: These are the lowest results from test carried out in each test pit

Surface Water Drainage Design Notes

Ground conditions here comprise a little Topsoil 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 7.57×10^{-4} m/s and 3.19×10^{-5} 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 soakaways have been designed as shown. These will collect water from roof areas, with the two in the rear being linked. The design will be suitable to drain the new roof areas without flooding on a 1 in 100 year rainfall event + 40% climate change addition. The front drive will be in permeable resin-bound gravel incorporating a line of concrete stanks 200mm high to retain stored water at the design level - see construction details.

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Existing public foul water sewer
- Proposed 1.2m dia. concrete ring soakaways, depth as specified
- Proposed permeable surfaces
- +7.870 Existing ground levels in metres AOD
- CL #.### Cover level of surface water manholes
- BL #.### Base level of soakaways
- IL #.### Invert level of surface water drains
- + 5.859 Finished drive levels - Note: minimum of 250mm of CGA to be provided under resin bound surface
- TP 201 Percolation test points
- Proposed 250 Dia. inspection chamber (Osma Shallow or similar approved)
- Proposed 450 Dia. inspection chamber (Osma Universal or similar approved)
- Proposed silt trap inspection chamber
- Proposed C250 channel drain with suitable150 DI grating
- Proposed 450x900 PE trapped road gully with 150mm Rigidrain connection to existing soakaway
- Proposed 225Ø Rigidrain drainage pipe with suitable 600mmØ inspection chamber
- Proposed line of 200mm high concrete stanks in permeable sub-base - see construction details

Rev.	Description	Drn.	Date
-	Original	RC	14.5.20

Project

Rond Point
Ham Manor Way
Angmering

Client

Mr and Mrs Jones

Drawing Title

SW Drainage Layout

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Scale	At original	Drawing Number	Revision
As shown	A3	2031/L1.2	-