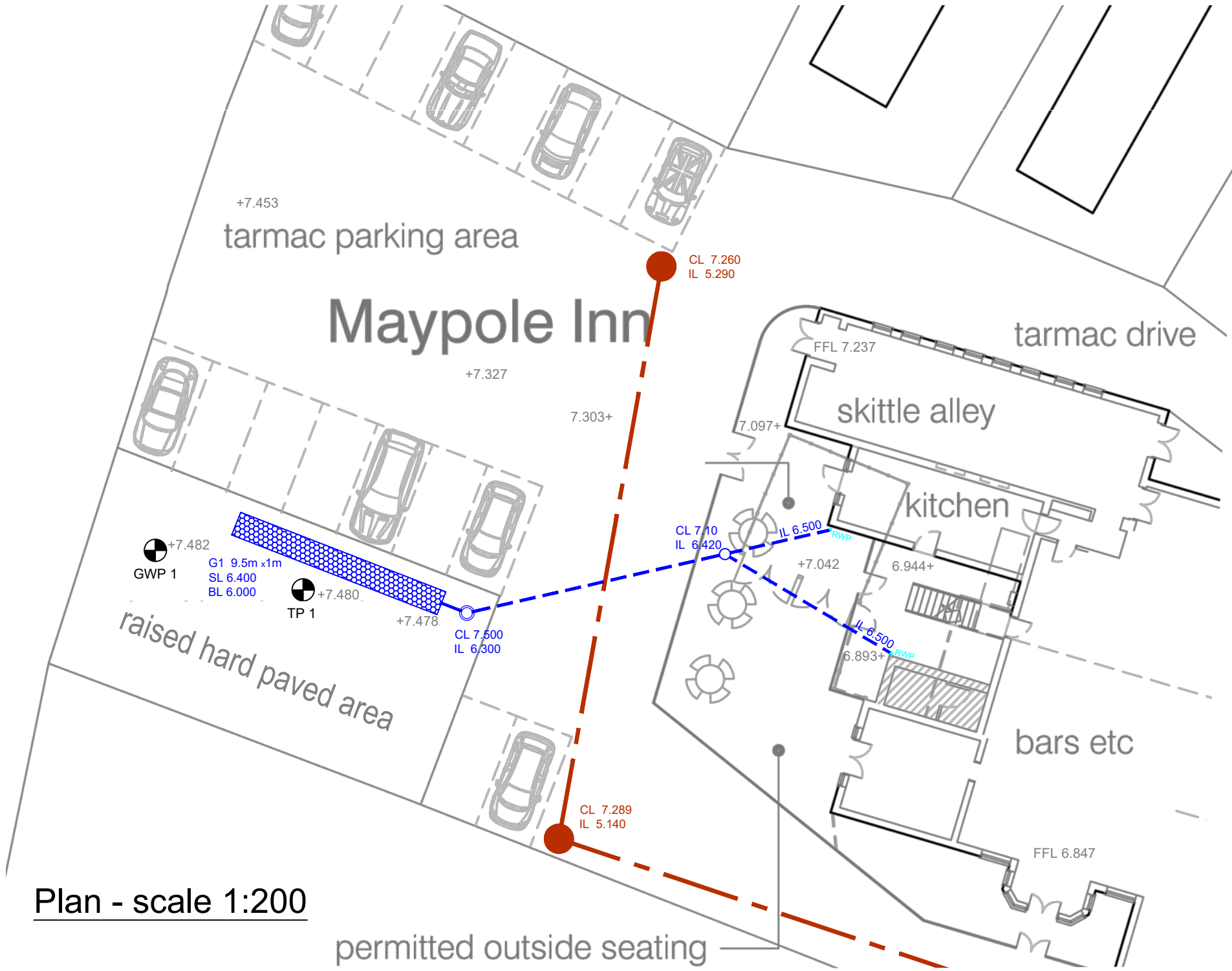




Plan - scale 1:200

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over Upper Chalk. The River Terrace Deposits were found at 0.35m below ground level as soft to firm silty clays with some grit and gravel increasing with depth. The Upper Chalk was not encountered in test holes drilled to 3.04m below ground level in late November 2019.

On installation of the groundwater monitoring point, groundwater was initially encountered at 2.71m below ground level, rising to 1.94m below ground level on completion of the installation. Monitoring on the site from late November 2019 through to mid-March 2020 showed various peaks with levels subsequently rising to a maximum of 2.019m below ground level (5.463m AOD) in late February 2020.

The drainage design is based on percolation tests carried out in a Test Pit (sized ~400mm by ~1200mm) to BRE 365 principles in mid to late February 2020. Consistent soil infiltration rates ranging from 3.599×10^{-6} m/s up to 4.722×10^{-6} m/s were obtained at a depth of 1.4m below ground level. Lower results were found at a greater depth and it was determined that a shallow geocellular soakaway would be best for this site. The minimum of the results above has been used in the calculations.

The design presented here will be suitable to drain the new impermeable area of 37 sq.m on a rainfall event with a return period of 100 years plus an addition of 40% for climate change with no surface flooding.

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

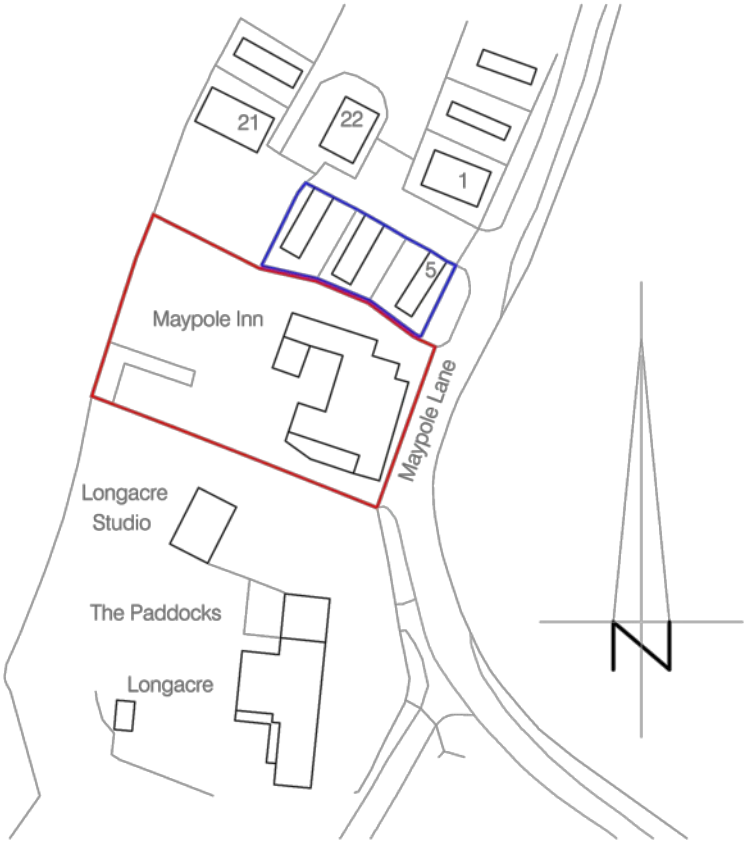
Percolation Test Results

TP 1	3.599×10^{-6} m/s
TP 1	3.663×10^{-6} m/s
TP 1	4.722×10^{-6} m/s

Note: The lowest results from these tests was used for design

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Existing public foul water sewer
- Proposed geocellular soakaway as detailed in 0.4m deep geocells
- Existing ground levels in metres AOD
- CL ### Cover level of surface water manholes
- IL ### Invert level of surface water drains
- SL ### Soffit (top) level of geocells
- BL ### Base level of soakaways
- TP1 Percolation test point
- GWP 1 Groundwater Monitoring point
- Proposed 450 Dia. inspection chamber (Osma Universal or similar approved)
- Proposed silt trap inspection chamber



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Location Plan: Scale 1:1250

Latitude: 50° 49' 44"
Longitude: 0° 36' 46"

-	Original	RC	29.4.20
Rev.	Description	Drn.	Date
Project			
The Maypole Inn Maypole Lane Yapton			
Client			
Mrs S. Smith			
Drawing Title			
SW Drainage Layout			
This drawing is copyright It may not be copied or reproduced without written authority			
Scale		At original	
As shown		A3	
Drawing Number		Revision	
2027/L4		-	