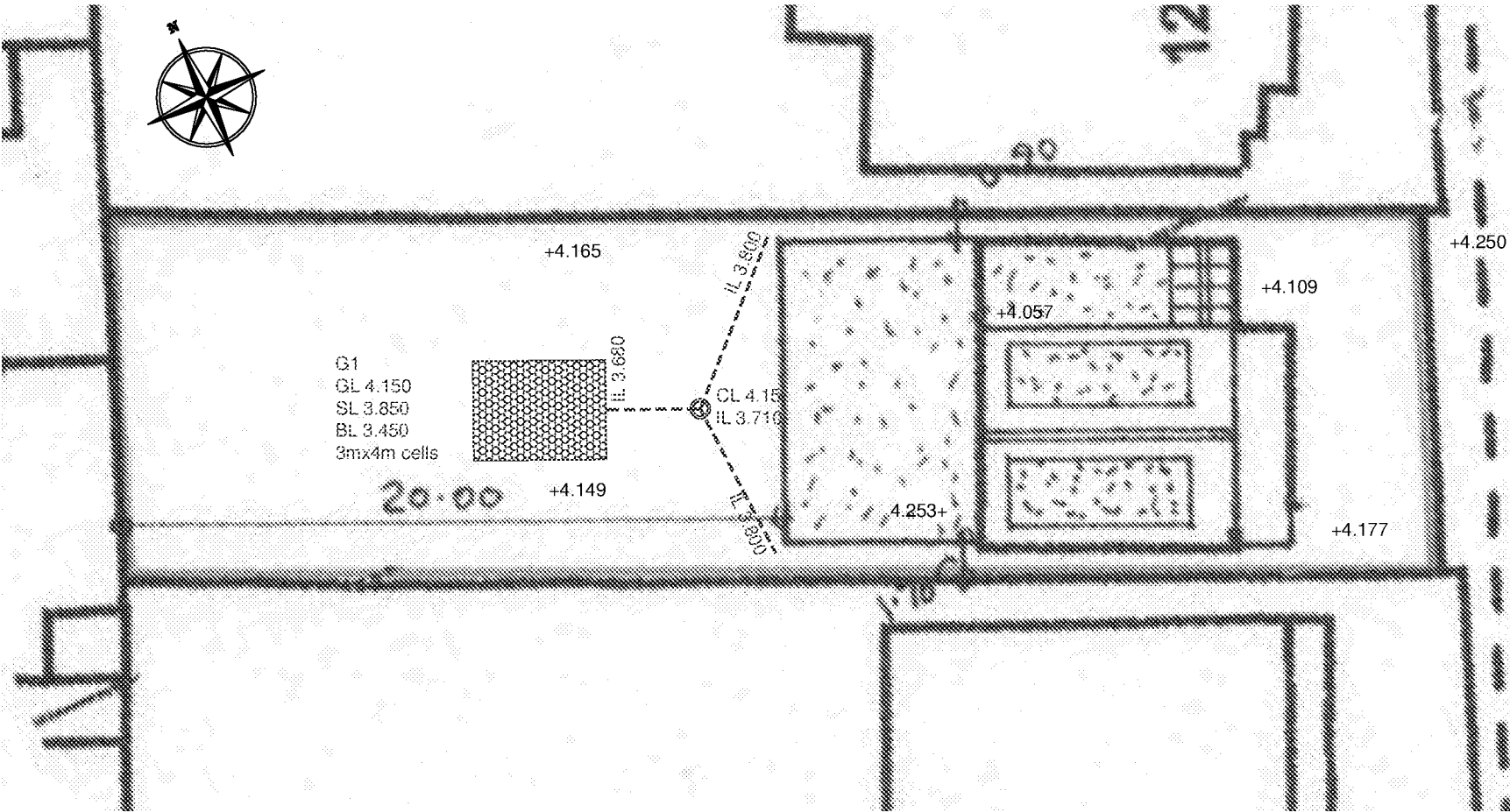




Location plan - scale 1:1250



Surface Water Drainage Plan - scale 1:200

KEY

- Proposed storm drainage
100mm dia at min 1:100
- Proposed silt trap inspection chamber
- Proposed geocellular soakaway
12 sq.m of 400mm deep 'crates'
- GL #.### Ground level
SL #.### Soffit level of 'crates'
BL #.### Base level of 'crates'
- +4.109 Existing ground levels in metres AOD

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

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over Raised Beach and River Terrace Deposits of silt, sand, clay and gravel over Upper Chalk. The Raised Beach/ River Terrace Deposits were found at 0.15m below ground level and were found to comprise soft to firm silty sandy clays with some grit and occasional large flints, becoming more gravelly with depth. The Upper Chalk was not encountered in test holes that extended to 1.2m below ground level.

Groundwater was encountered at 0.780m depth during the investigations in early February 2018, rising to 0.725m during the testing and shallow soakage structures will thus be required.

The drainage design is based on percolation tests carried out to BRE 365 principles in three separate test holes in early February 2018. An average soil infiltration rate of 4.744×10^{-5} m/s was obtained, to which a factor of safety of 1.5 has been applied.

A large geocellular soakaway has been designed 12sq.m in area x 0.4m deep, which will be suitable to drain the new rear extension of 53 sq.m (hatched) together with the existing dwelling (as most rainwater downpipes currently just drain onto the ground), without flooding on a 1 in 100 year rainfall event + 30% climate change addition. The front parking area is currently a semi-permeable slatted area with no positive drainage and has not been allowed for.

-	Original	RTFC	8.2.18
Rev.	Description	Drm.	Date

Project
14 West Drive Middleton-On-Sea West Sussex

Client
Mr David Druce
Drawing Title
Surface Water Drainage

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Scale	As shown	At original	A3
Drawing Number	1780/D1.1	Revision	-