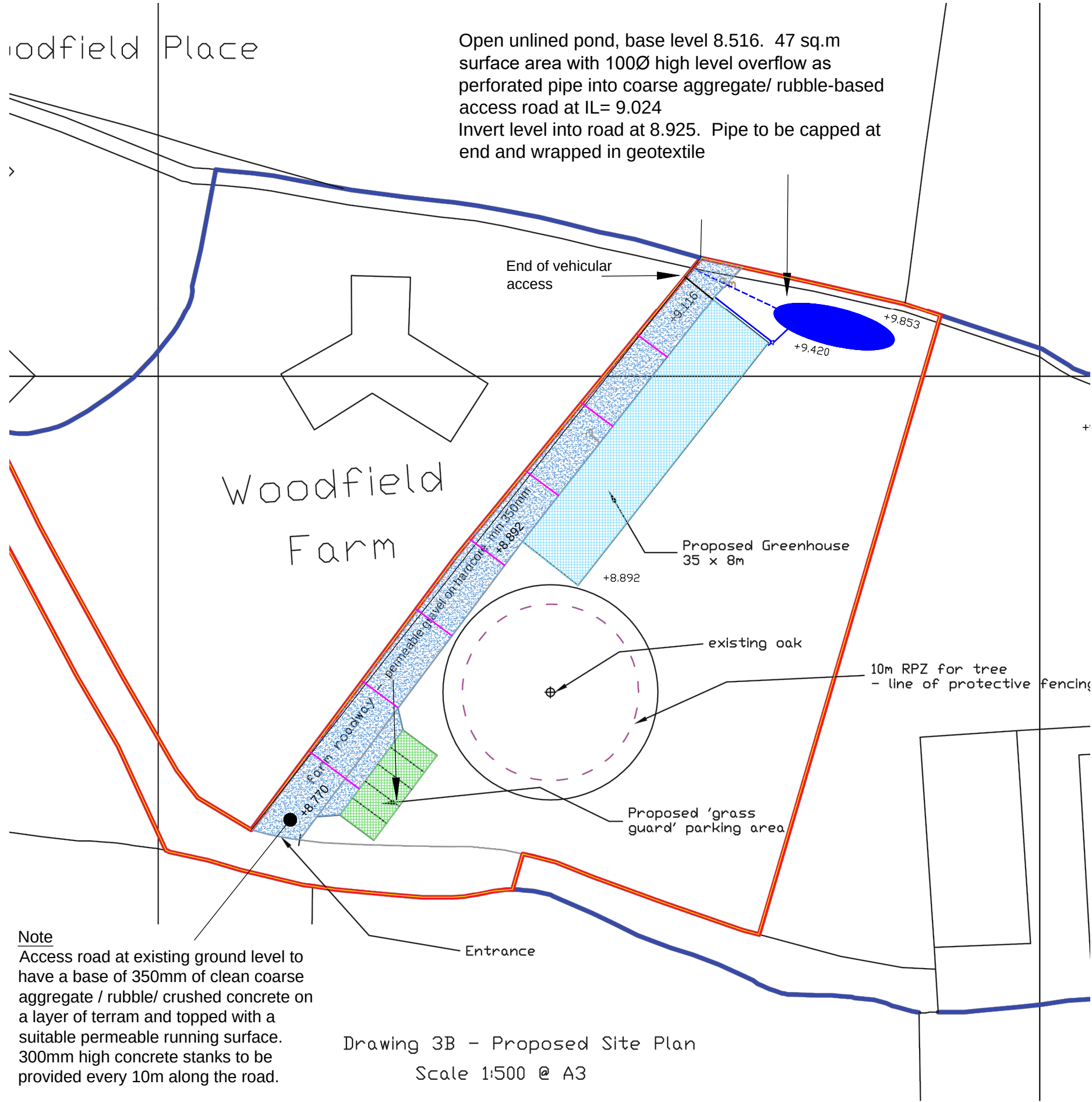
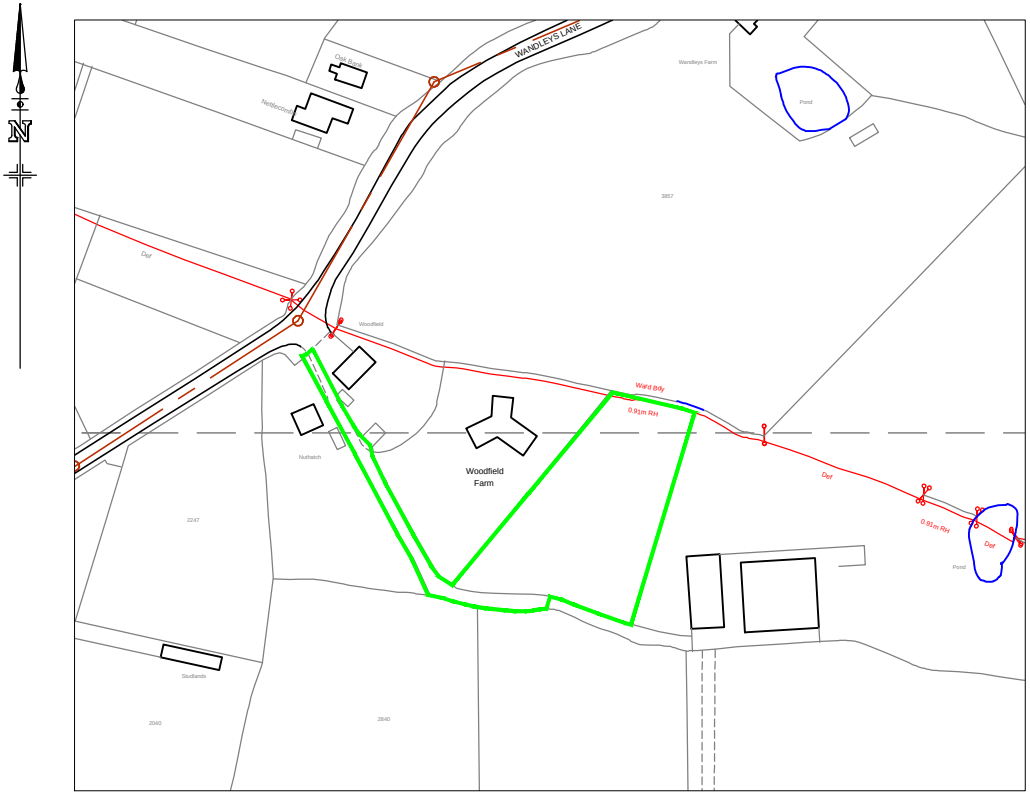




Drawing 3B - Proposed Site Plan
Scale 1:500 @ A3

Plan - scale 1:500



Location plan - scale 1:2500

KEY

- Proposed storm drainage
- 250 dia surface water inspection chamber
- Proposed open pond storage/soakaway 47sq.m unlined
- Proposed concrete stanks - see detail
- Existing levels
- Proposed levels

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over Head and River Terrace Deposits (soft to firm silty sandy clays) over similar bedrock material of the Lambeth Group. The Head/River Terrace Deposits were found at 0.2m below ground level and were found to comprise soft to firm silty brown and grey clays with some grit and gravel and occasional large flints. The Lambeth Group was not encountered in test holes that extended to 1.2m below ground level. Groundwater was encountered at 1.16m below ground level during the investigations in mid-May 2017.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes in May 2017. An average soil infiltration rate of 1.53×10^{-6} m/s was obtained. A factor of safety of 2.5 has been used in calculations to allow for a possible reduced infiltration rate in the winter months.

An open pond has been designed, 47sq.m in area x approx 0.6m deep below the incoming pipe, which will be suitable to drain the greenhouse area of 280 sq.m without flooding on a 1 in 100 year rainfall event + 30% climate change addition. The pond will not be lined and will act as an infiltration basin.

A high level overflow will be taken to connect into the rubble access road for safety/exceedence and to allow for possible high groundwater levels at certain times of the year. The access road thickness has been increased by 150mm over the hydraulic design requirement and this will provide in excess of 12 cu.m of additional storage for any overflow from the pond.

-	Original	RTFC	14.11.17
Rev.	Description	Drn.	Date

Project
Woodfield Farm Wandleys Lane Eastergate

Client
Clive Hughes
Drawing Title
Surface Water Drainage

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Scale	As shown	At original	A3
Drawing Number	1736/D1.3		Revision -