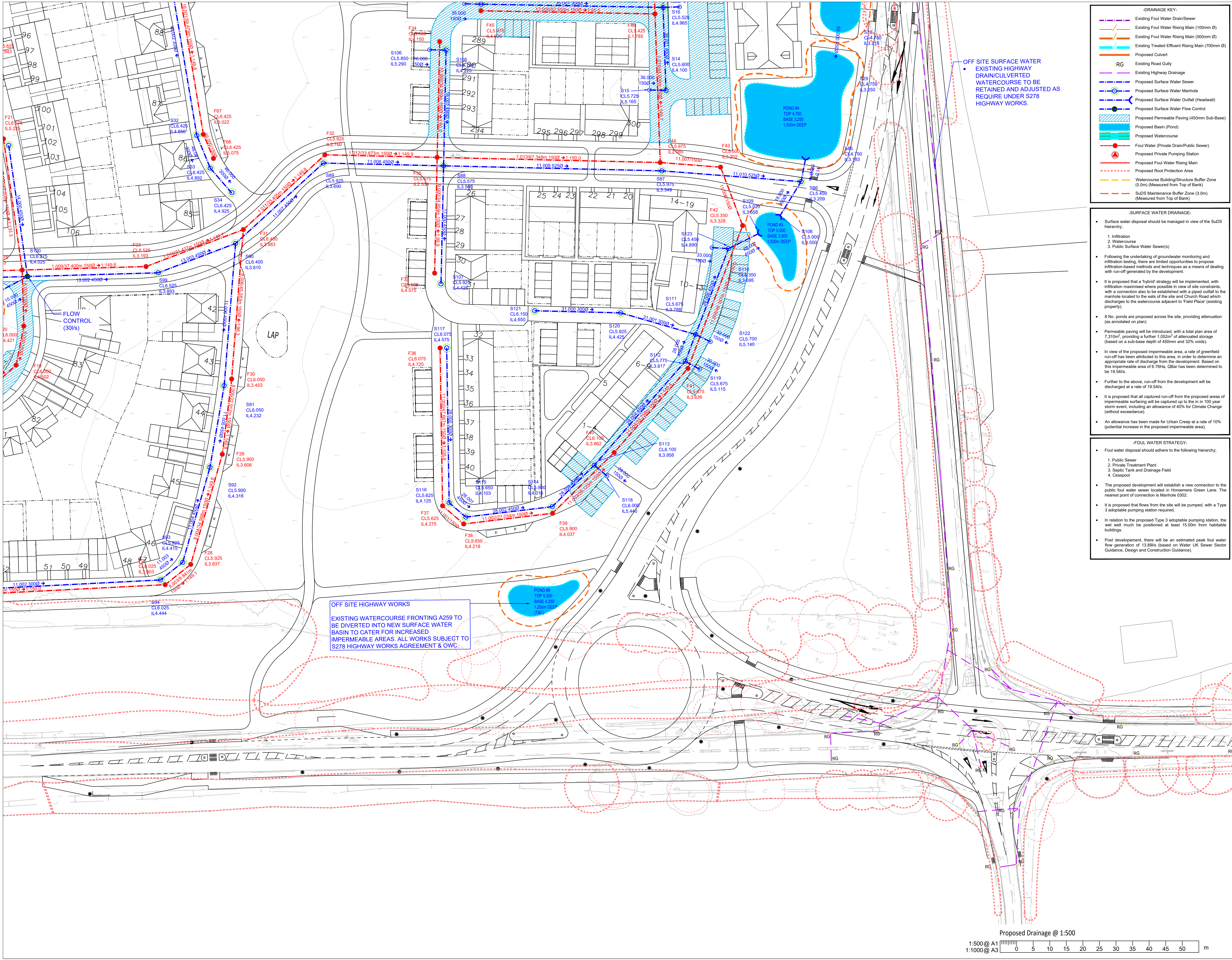




-DRAINAGE KEY-

- Existing Foul Water Drain/Sewer
- Existing Foul Water Rising Main (100mm Ø)
- Existing Foul Water Rising Main (500mm Ø)
- Existing Treated Effluent Rising Main (700mm Ø)
- Proposed Culvert
- Existing Road Gully
- Existing Highway Drainage
- Proposed Surface Water Sewer
- Proposed Surface Water Manhole
- Proposed Surface Water Outfall (Headwall)
- Proposed Surface Water Flow Control
- Proposed Permeable Paving (450mm Sub-Base)
- Proposed Basin (Pond)
- Proposed Watercourse
- Foul Water (Private Drain/Public Sewer)
- Proposed Private Pumping Station
- Proposed Foul Water Rising Main
- Proposed Root Protection Area
- Watercourse Building/Structure Buffer Zone (5.0m) (Measured from Top of Bank)
- SuDS Maintenance Buffer Zone (3.0m) (Measured from Top of Bank)

-SURFACE WATER DRAINAGE-

- Surface water disposal should be managed in view of the SuDS hierarchy:
 - 1. Infiltration
 - 2. Watercourse
 - 3. Public Surface Water Sewer(s)
- Following the undertaking of groundwater monitoring and infiltration testing, there are limited opportunities to propose infiltration-based methods and techniques as a means of dealing with run-off generated by the development.
- It is proposed that a 'hybrid' strategy will be implemented, with infiltration maximised where possible in view of site constraints, with a connection also to be established with a piped outfall to the manhole located to the east of the site and Church Road which discharges to the watercourse adjacent to Field Place (existing property).
- 8 No. ponds are proposed across the site, providing attenuation (as annotated on plan).
- Permeable paving will be introduced, with a total plan area of 7,310m², providing a further 1,052m³ of attenuated storage (based on a sub-base depth of 450mm and 32% voids).
- In view of the proposed impermeable area, a rate of greenfield run-off has been attributed to this area, in order to determine an appropriate rate of discharge from the development. Based on this impermeable area of 6,769m², Qbar has been determined to be 19.54l/s.
- Further to the above, run-off from the development will be discharged at a rate of 19.54l/s.
- It is proposed that all captured run-off from the proposed areas of impermeable surfacing will be captured up to the in 100 year storm event, including an allowance of 40% for Climate Change (without exceedance).
- An allowance has been made for Urban Creep at a rate of 10% (potential increase in the proposed impermeable area).

-FOUL WATER STRATEGY-

- Foul water disposal should adhere to the following hierarchy:
 - 1. Public Sewer
 - 2. Private Treatment Plant
 - 3. Septic Tank and Drainage Field
 - 4. Cesspool
- The proposed development will establish a new connection to the public foul water sewer located in Horsenore Green Lane. The nearest point of connection is Manhole 0302.
- It is proposed that flows from the site will be pumped, with a Type 3 adoptable pumping station required.
- In relation to the proposed Type 3 adoptable pumping station, the wet well must be positioned at least 15.00m from habitable buildings.
- Post development, there will be an estimated peak foul water flow generation of 13.89l/s (based on Water UK Sewer Sector Guidance, Design and Construction Guidance).

- This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
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Drawing Status	PLANNING						
Client	Vivid and Climping Homes						
Project	Land adjacent to Church Lane, Climping, West Sussex						
Drawing Title	Proposed Drainage Sheet 2 of 4						
Scale	1:500	Date	Aug '21	Drawn By	SPB	Checked By	MJA
Drawing No.	D1886-002	Rev.	A				

