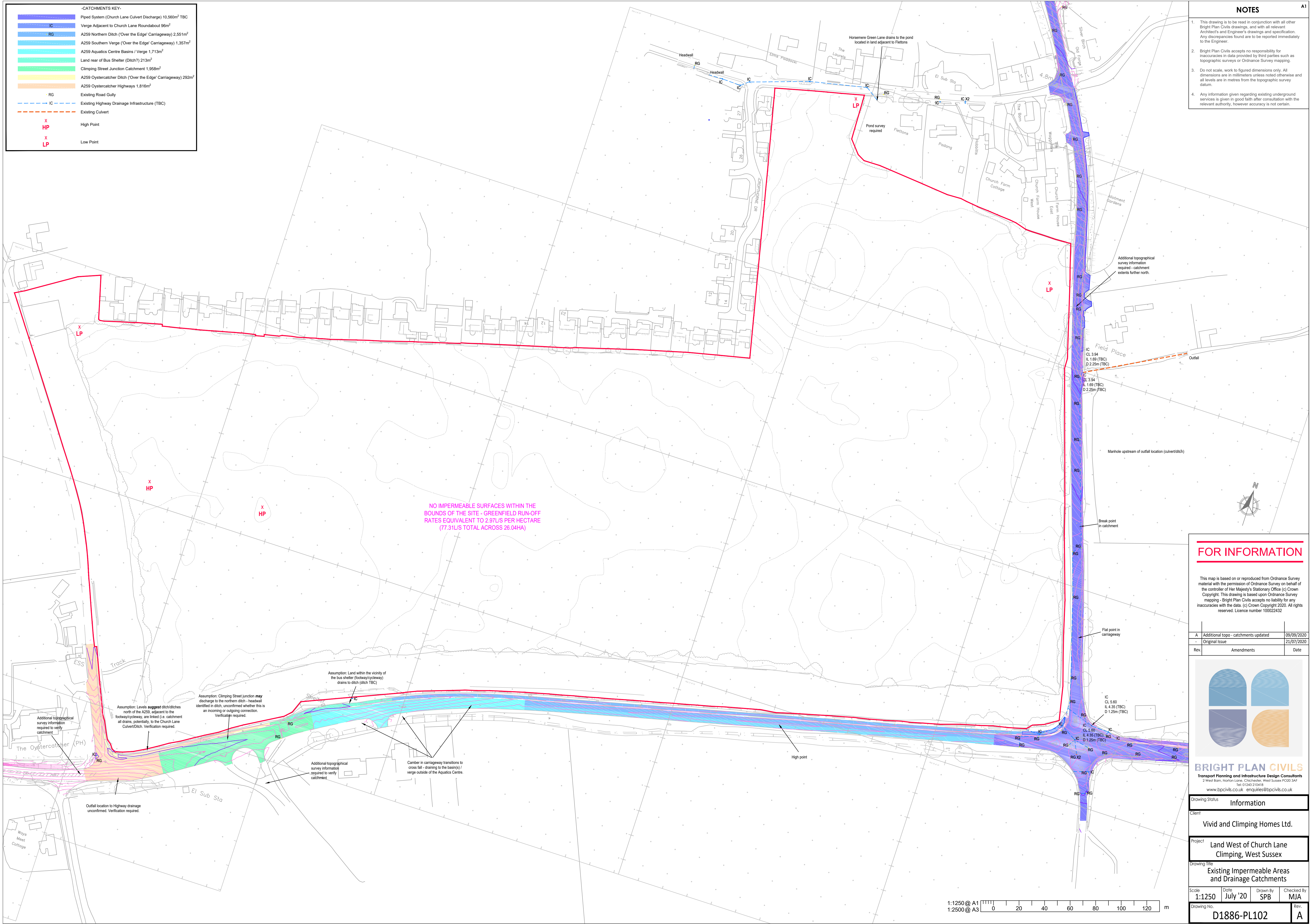


DRAWINGS

PL102	Existing Impermeable Areas and Drainage Catchments
PL105	Proposed Impermeable Area
PL001	Proposed Drainage Sheet 1 of 4
PL002	Proposed Drainage Sheet 2 of 4
PL003	Proposed Drainage Sheet 3 of 4
PL004	Proposed Drainage Sheet 4 of 4
PL005	Proposed Levels & Contours Sheet 1 of 4
PL006	Proposed Levels & Contours Sheet 2 of 4
PL007	Proposed Levels & Contours Sheet 3 of 4
PL008	Proposed Levels & Contours Sheet 4 of 4
PL300	Proposed Basin Cross Sections Sheet 1 of 3
PL301	Proposed Basin Cross Sections Sheet 2 of 3
PL302	Proposed Basin Cross Sections Sheet 3 of 3

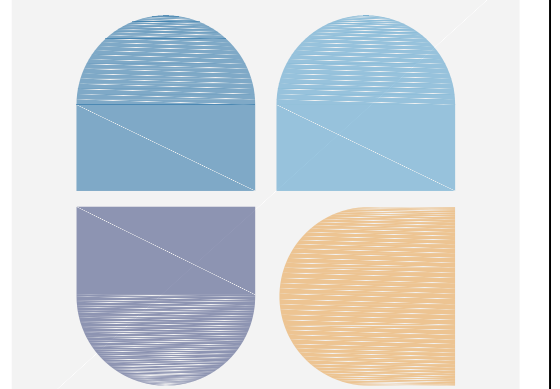


A1

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A	Additional topo - catchments updated	09/09/2020
-	Original Issue	21/07/2020
Rev.	Amendments	Date



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Drawing Status	Information
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Vivid and Climbing Homes Ltd.

Project	Land West of Church Lane Climping, West Sussex
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Drawing title

Existing Impermeable Areas
and Drainage Catchments

Scale 1:1250	Date July '20	Drawn By SPB	Checked By MJA
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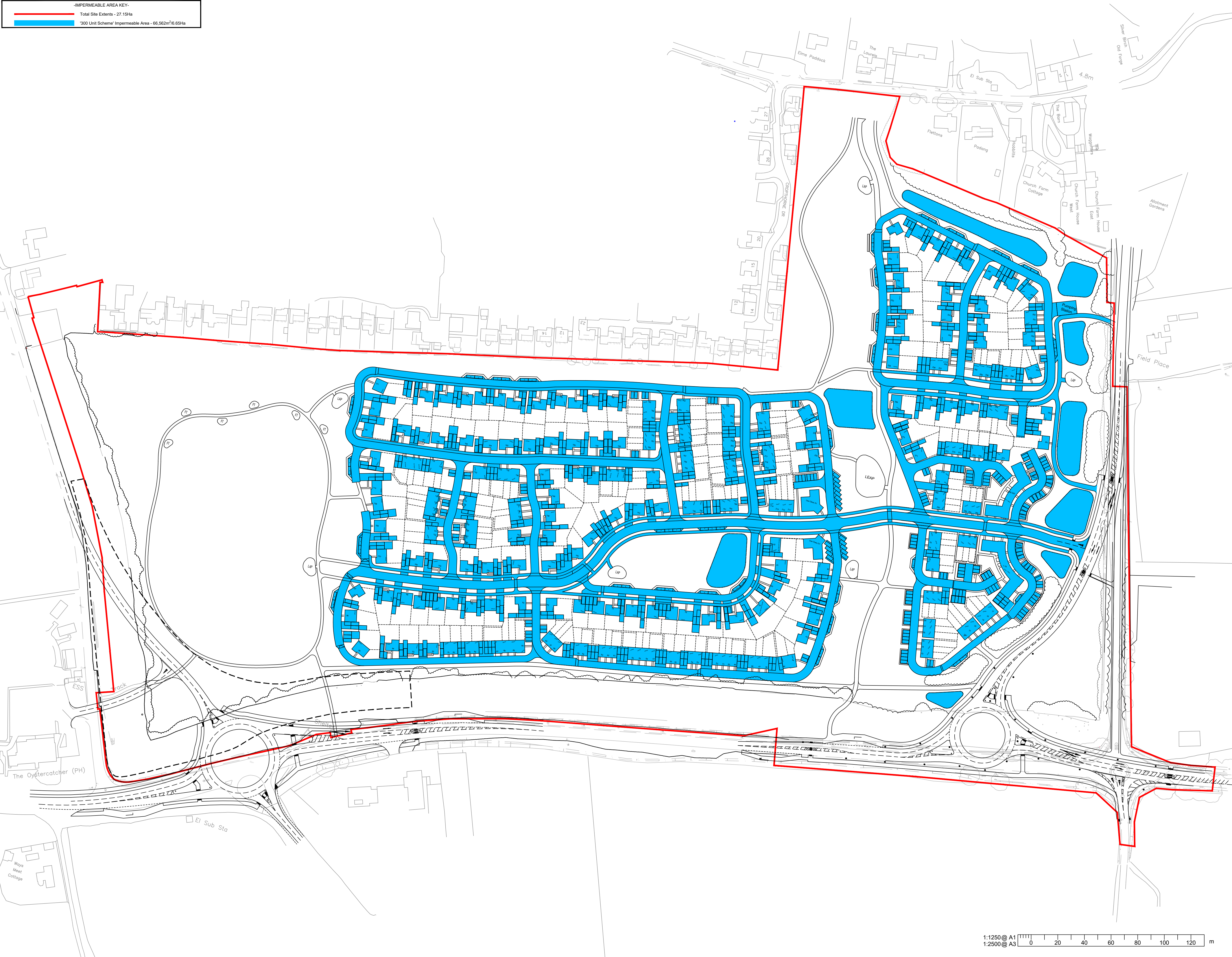
Drawing No.	Rev.
D1886-PL102	A

DISTRICT COUNCIL CM48/21/RES

-IMPERMEABLE AREA KEY-

Total Site Extents - 27.15Ha

'300 Unit Scheme' Impermeable Area - 66,562m²/6.65Ha



1:1250 @ A1
1:2500 @ A3

020406080100120

m

NOTES

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N

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E	Revised layout	14/04/2022
Rev.	Amendments	Date

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Drawing Status

PLANNING

Client

Vivid and Climping Homes Ltd.

Project

Land West of Church Lane
Climping, West Sussex

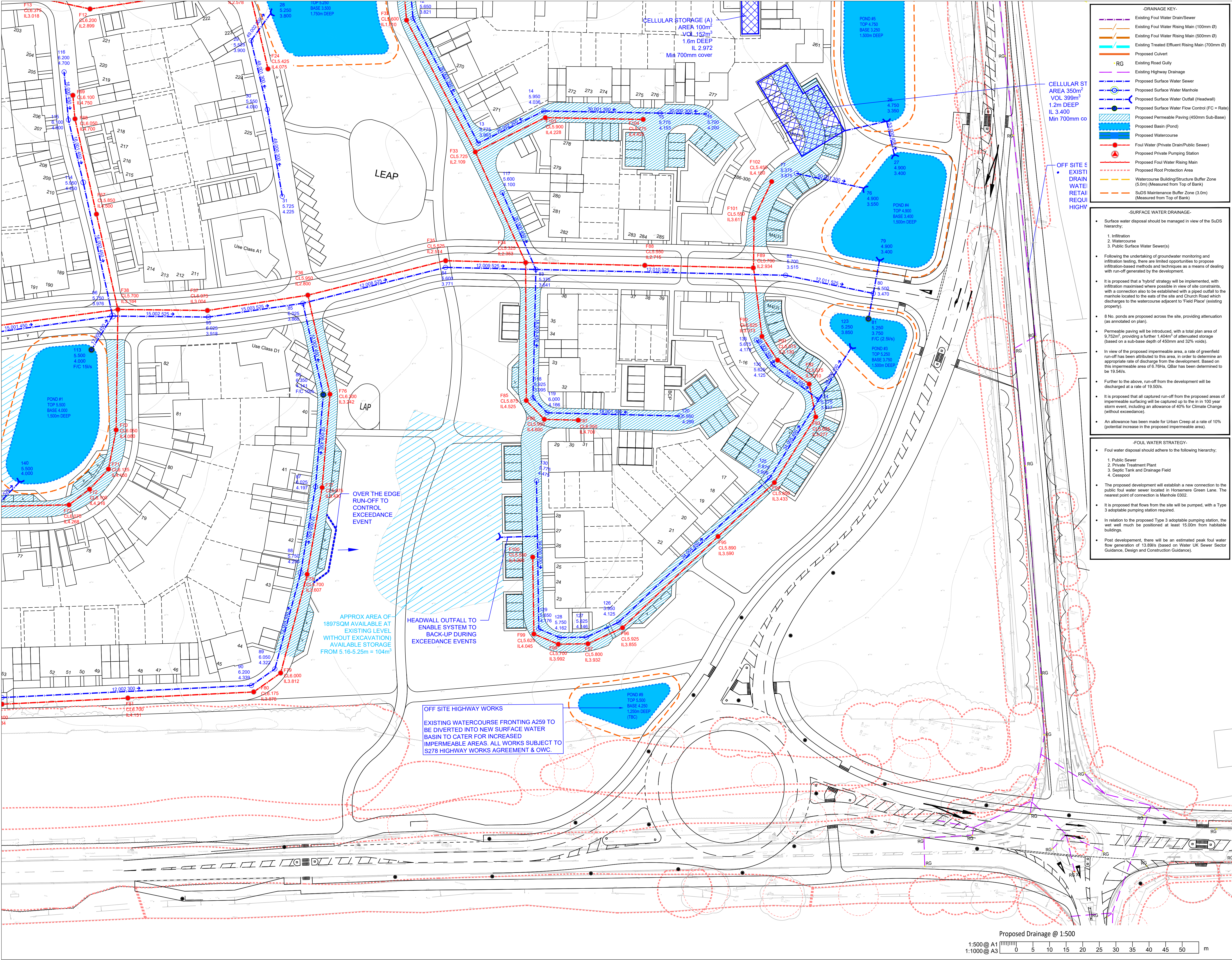
Drawing Title

Proposed Impermeable Area

Scale	Date	Drawn By	Checked By
1:1250	Dec. '20	SPB	MJA

Drawing No.	Rev.
D1886-PL105	E

APRA DISTRICT COUNCIL CAMBERLEY



-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 (FC = Rate)
- 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)

CELLULAR ST
AREA 350m²
VOL 399m³
1.2m DEEP
IL 3.400
Min 700mm co

OFF SITE S
EXISTI
DRAIN
WATE
RETAI
REQUI
HIGH

-SURFACE WATER DRAINAGE-

- Surface water disposal should be managed in view of the SuDS hierarchy:
 - Infiltration
 - Watercourse
 - 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 9,752m², providing a further 1,404m³ 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, Q_{bar} has been determined to be 19.54l/s.
- Further to the above, run-off from the development will be discharged at a rate of 19.50l/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:
 - Public Sewer
 - Private Treatment Plant
 - Septic Tank and Drainage Field
 - Cesspool
- The proposed development will establish a new connection to the public foul water sewer located in Horsemere 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 15.0m 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).

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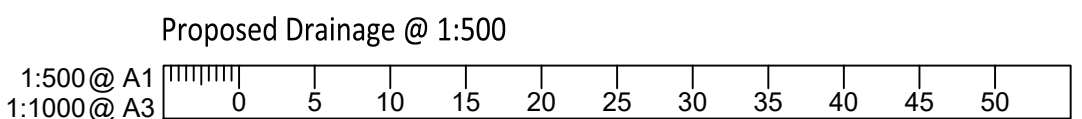
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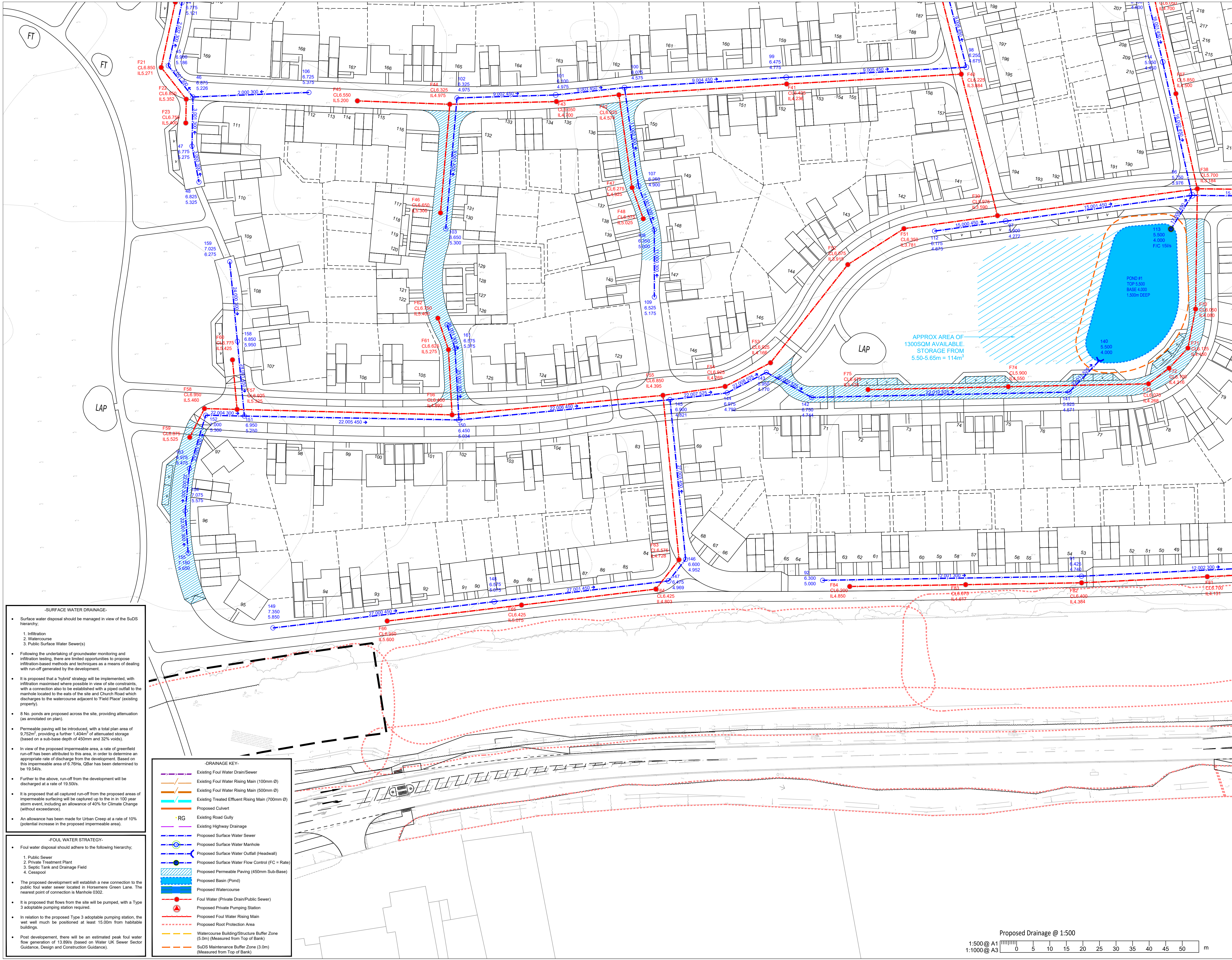
B	Revised layout	14/04/2022
-	Original Issue	05/08/2021
Rev.	Amendments	Date



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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.	B





NOTES

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B	Revised layout	14/04/2022
-	Original Issue	05/08/2021
Rev.	Amendments	Date

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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 3 of 4

Scale	Date	Drawn By	Checked By
1:500	Aug. '21	SPB	MJA

Drawing No.

D1886-003

Rev.

B

1:500 @ A1

1:1000 @ A3

0

5

10

15

20

25

30

35

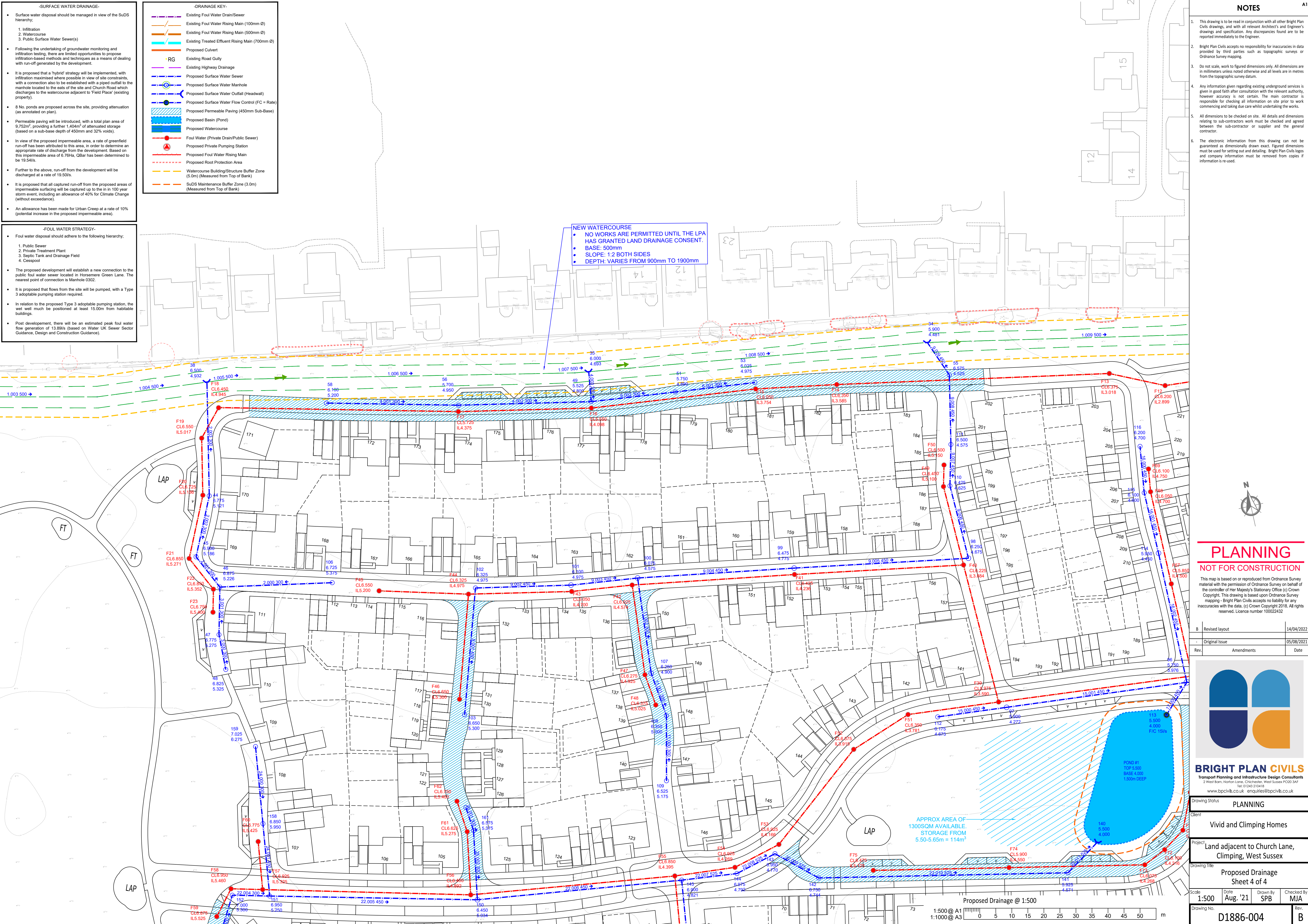
40

45

50

m

Proposed Drainage @ 1:500



- SURFACE WATER DRAINAGE-**
- Surface water disposal should be managed in view of the SuDS hierarchy;
 - Infiltration
 - Watercourse
 - 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.
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 - Further to the above, run-off from the development will be discharged at a rate of 19.50l/s.
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 - Private Treatment Plant
 - Septic Tank and Drainage Field
 - Cesspool
 - The proposed development will establish a new connection to the public foul water sewer located in Horsmere Green Lane. The nearest point of connection is Manhole 0302.
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- 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)
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 - 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)

NEW WATERCOURSE
• NO WORKS ARE PERMITTED UNTIL THE LPA HAS GRANTED LAND DRAINAGE CONSENT.
• BASE: 500mm
• SLOPE: 1:2 BOTH SIDES
• DEPTH: VARIES FROM 900mm TO 1900mm

- NOTES**
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B	Revised layout	14/04/2022
-	Original Issue	05/08/2021
Rev.	Amendments	Date

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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 4 of 4
Scale	1:500
Date	Aug. '21
Drawn By	SPB
Checked By	MJA
Drawing No.	D1886-004
Rev.	B