

Legend

- Site Boundary
- Existing
- Existing Combined Sewer
- Existing Highway Drain
- Proposed
- Surface Water Drain
- Foul Water Drain
- Flow Control Manhole
- Plot Slab Level
- Geocellular Attenuation Tank
- Brick Retaining Wall
- Underbuild

Surface Water Flow Rates

Developable Site Area = 4,650sq.m.

Existing Brownfield Run-off Rates
(Based on 700q.m. existing impermeable area
Roof only, no hardstanding)

1yr = 4.91 l/s (25.26 mm/hr rainfall)
30yr = 12.00 l/s (61.70 mm/hr rainfall)
100yr = 15.45 l/s (79.48 mm/hr rainfall)

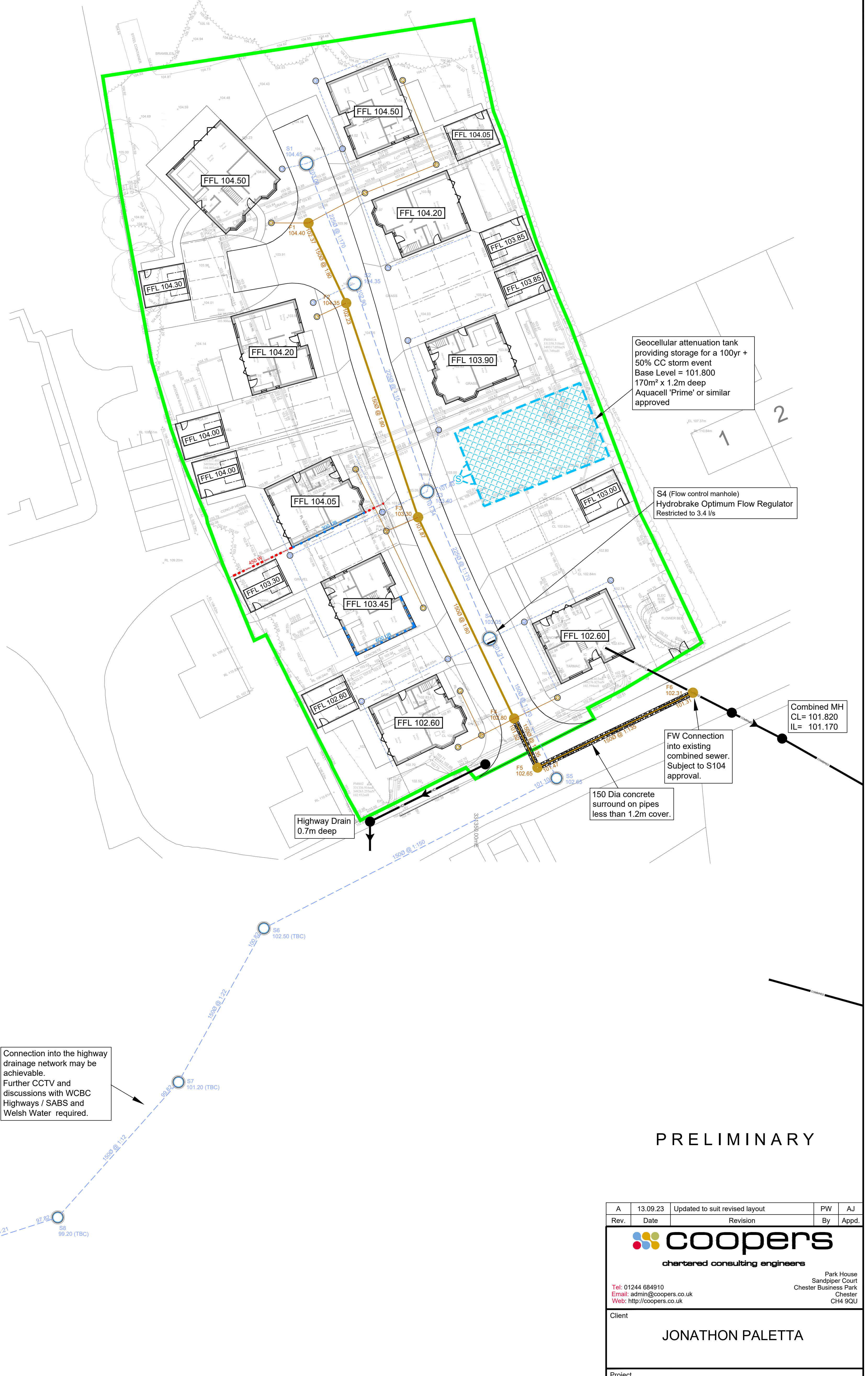
Proposed Run-off Rates
(30% betterment on existing flow rates)

1yr = 3.44 l/s **Design Flow rate = 3.4 l/s**
30yr = 8.40 l/s
100yr = 10.81 l/s

Proposed impermeable areas = 2,280sq.m.

100yr attenuation storage = approx 130cu.m
(+50% climate change) (based on 3.4 l/s)

Pipe and manhole sizes are
indicative. Sizes will be
confirmed at detail design.



PRELIMINARY

A	13.09.23	Updated to suit revised layout	PW	AJ
Rev.	Date	Revision	By	Appd.
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Client JONATHON PALETTA				
Project Bersham Club, Bersham Road, Wrexham.				
Title Drainage Strategy Option 2				
DRAWING NUMBER 7781 / 01		SCALE at A1 1:250 DATE 07.06.23 DRAWN PW CHECKED AJ		
		REVISION A		

0 1 2 4 6 8 10 15 20
SCALE BAR (m)