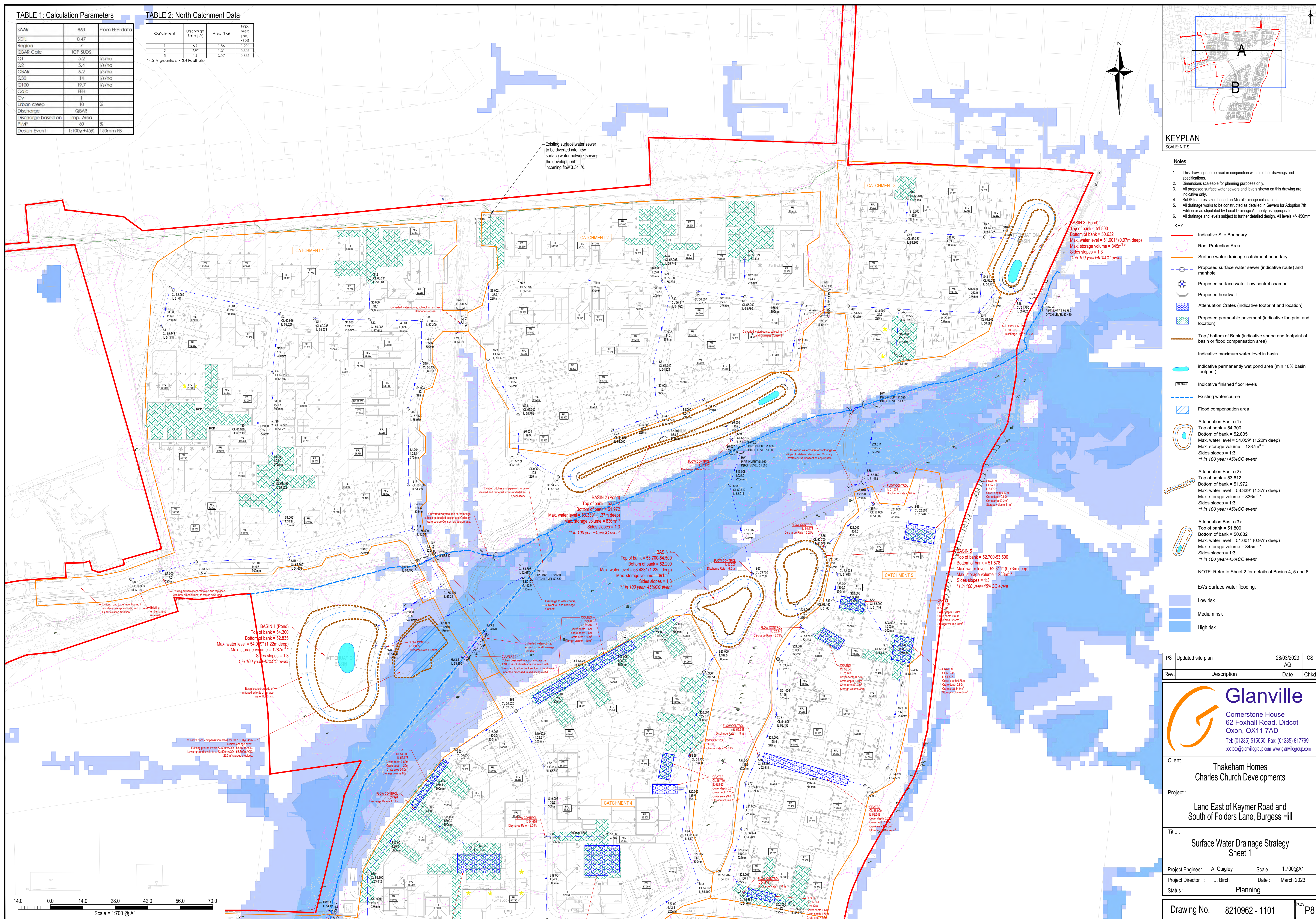


Appendix A – Initial Drainage Strategy Layout

SAAR	863	From FEH data
SOIL	0.47	
Region	7	
QBAR Calc	ICP SUDS	
Q1	5.2	l/s/ha
Q2	5.4	l/s/ha
QBAR	6.2	l/s/ha
Q30	14	l/s/ha
Q100	19.7	l/s/ha
Calc	FEH	
Cv	1	
Urban creep	10	%
Discharge	QBAR	
Discharge based on	Imp. Area	
PiMP	60	%
Design Event1	1:100yr+45%	150mm FB

Catchment	Discharge Rate (l/s)	Area (ha)	Imp. Area (ha); +15%
1	6.9	1.86	0.22
2	7.9*	1.31	0.806
3	1.9	0.57	0.336

* 4.5 l/s greenfield + 3.4 l/s off-site



SCALE: N.T.S.

Notes

1. This drawing is to be read in conjunction with all other drawings and specifications.
2. Dimensions scaleable for planning purposes only.
3. All proposed surface water sewers and levels shown on this drawing are indicative only.
4. SuDS features sized based on MicroDrainage calculations.
5. All drainage works to be constructed as detailed in Sewers for Adoption 7th Edition or as stipulated by Local Drainage Authority as appropriate.
6. All drainage and levels subject to further detailed design. All levels +/- 450mm.

KEY

- | | |
|---|---|
|  | Indicative Site Boundary |
|  | Root Protection Area |
|  | Surface water drainage catchment boundary |
|  | Proposed surface water sewer (indicative route) and manhole |
|  | Proposed surface water flow control chamber |
|  | Proposed headwall |
|  | Attenuation Catches (indicative footprint and location) |
|  | Proposed permeable pavement (indicative footprint and location) |
|  | Top / bottom of Bank (indicative shape and footprint of basin or flood compensation area) |
|  | Indicative maximum water level in basin |
|  | Indicative permanently wet pond area (min 10% basin footprint) |
|  | Indicative finished floor levels |



Attenuation Basin (1):
 Top of bank = 54.300
 Bottom of bank = 52.835
 Max. water level = 54.059* (1.22m deep)
 Max. storage volume = 1287m³ *
 Sides slopes = 1:3
 *1 in 100 year+45%CC event

Attenuation Basin (2):

Top of bank = 53.612
Bottom of bank = 51.972
Max. water level = 53.339* (1.37m deep)
Max. storage volume = 836m³ *
Sides slopes = 1:3
*1 in 100 year+45%CC event



Attenuation Basin (3):
 Top of bank = 51.800
 Bottom of bank = 50.632
 Max. water level = 51.601* (0.97m deep)
 Max. storage volume = 345m³ *
 Sides slopes = 1:3
 *1 in 100 year+45%CC event

NOTE: Refer to Sheet 2 for details of Basins 4, 5 and 6.

EA's Surface water flooding:

- Low risk
- Medium risk
- High risk

P8	Updated site plan	28/03/2023 AQ	CS
Rev.	Description	Date	Chkd



Client : Thakeham Homes
Charles Church Developments

Project : Land East of Keymer Road and South of Folders Lane, Burgess Hill

Title : Surface Water Drainage Strategy
Sheet 1

Project Engineer : A. Quigley Scale : 1:700@A1

Project Director :	J. Birch	Date :	March 2023
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Status :	Planning
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Drawing No. 8210962 - 1101

Rev P8