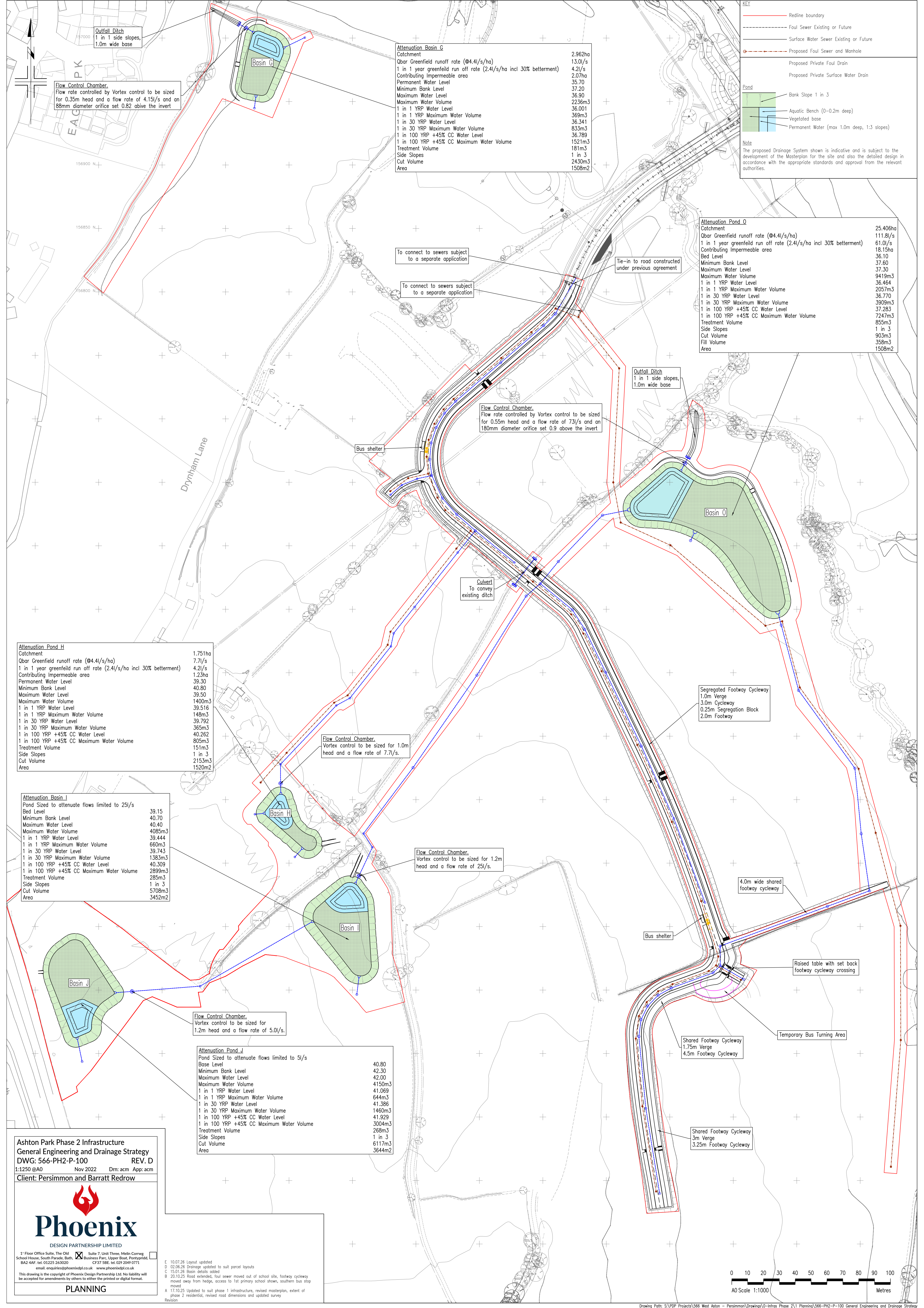




KEY

Redline boundary

Foul Sewer Existing or Future

Surface Water Sewer Existing or Future

Proposed Foul Sewer and Manhole

Proposed Private Foul Drain

Proposed Private Surface Water Drain

Pond

Bank Slope 1 in 3

Aquatic Bench (0-0.2m deep)

Vegetated base

Permanent Water (max 1.0m deep, 1:3 slopes)

Note

The proposed Drainage System shown is indicative and is subject to the development of the Masterplan for the site and also the detailed design in accordance with the appropriate standards and approval from the relevant authorities.

Attenuation Basin G	2.962ha
Catchment	13.01/s
Qbar Greenfield runoff rate (@4.41/s/ha)	4.21/s
1 in 1 year greenfield run off rate (2.41/s/ha incl 30% betterment)	2.07ha
Contributing Impermeable area	35.70
Permanent Water Level	37.20
Minimum Bank Level	36.90
Maximum Water Level	2236m3
Maximum Water Volume	36.001
1 in 1 YRP Water Level	36.9m3
1 in 1 YRP Maximum Water Volume	36.341
1 in 30 YRP Water Level	833m3
1 in 30 YRP Maximum Water Volume	36.789
1 in 100 YRP +45% CC Water Level	1521m3
1 in 100 YRP +45% CC Maximum Water Volume	181m3
Treatment Volume	1 in 3
Side Slopes	2430m3
Cut Volume	1508m2
Area	

Attenuation Pond O	25.406ha
Catchment	111.81/s
Qbar Greenfield runoff rate (@4.41/s/ha)	61.01/s
1 in 1 year greenfield run off rate (2.41/s/ha incl 30% betterment)	18.15ha
Contributing Impermeable area	36.10
Bed Level	37.60
Minimum Bank Level	37.30
Maximum Water Level	9419m3
Maximum Water Volume	36.464
1 in 1 YRP Water Level	2057m3
1 in 1 YRP Maximum Water Volume	36.770
1 in 30 YRP Water Level	3909m3
1 in 30 YRP Maximum Water Volume	37.283
1 in 100 YRP +45% CC Water Level	7247m3
1 in 100 YRP +45% CC Maximum Water Volume	855m3
Treatment Volume	1 in 3
Side Slopes	903m3
Cut Volume	358m3
Fill Volume	1508m2
Area	

Attenuation Pond H	1.751ha
Catchment	7.71/s
Qbar Greenfield runoff rate (@4.41/s/ha)	4.21/s
1 in 1 year greenfield run off rate (2.41/s/ha incl 30% betterment)	1.23ha
Contributing Impermeable area	39.30
Permanent Water Level	40.80
Minimum Bank Level	39.50
Maximum Water Level	1400m3
Maximum Water Volume	39.516
1 in 1 YRP Water Level	148m3
1 in 1 YRP Maximum Water Volume	39.792
1 in 30 YRP Water Level	365m3
1 in 30 YRP Maximum Water Volume	40.262
1 in 100 YRP +45% CC Water Level	805m3
1 in 100 YRP +45% CC Maximum Water Volume	151m3
Treatment Volume	1 in 3
Side Slopes	2153m3
Cut Volume	1520m2
Area	

Attenuation Basin I	
Pond Sized to attenuate flows limited to 251/s	39.15
Bed Level	40.70
Minimum Bank Level	40.40
Maximum Water Level	4085m3
Maximum Water Volume	39.444
1 in 1 YRP Water Level	660m3
1 in 1 YRP Maximum Water Volume	39.743
1 in 30 YRP Water Level	1383m3
1 in 30 YRP Maximum Water Volume	40.309
1 in 100 YRP +45% CC Water Level	2899m3
1 in 100 YRP +45% CC Maximum Water Volume	285m3
Treatment Volume	1 in 3
Side Slopes	5708m3
Cut Volume	3452m2
Area	

Attenuation Pond J	40.80
Pond Sized to attenuate flows limited to 51/s	42.30
Base Level	42.00
Minimum Bank Level	4150m3
Maximum Water Level	41.069
Maximum Water Volume	644m3
1 in 1 YRP Water Level	41.386
1 in 1 YRP Maximum Water Volume	1460m3
1 in 30 YRP Water Level	41.929
1 in 30 YRP Maximum Water Volume	3004m3
1 in 100 YRP +45% CC Water Level	268m3
1 in 100 YRP +45% CC Maximum Water Volume	6117m3
Treatment Volume	3644m2
Side Slopes	
Cut Volume	
Area	

Ashton Park Phase 2 Infrastructure

General Engineering and Drainage Strategy

DWG: 566-PH2-P-100

REV. D

1:1250 @A0

Nov 2022

Drn: acm

App: acm

Client: Persimmon and Barratt Redrow

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PLANNING

E 10.07.26 Layout updated
D 02.06.26 Drainage updated to suit parcel layouts
C 15.01.26 Basin details added
B 20.10.25 Road extended, foul sewer moved out of school site, footway cycleway moved away from hedge, access to 1st primary school shown, southern bus stop moved
A 17.10.25 Updated to suit phase 1 infrastructure, revised masterplan, extent of phase 2 residential, revised road dimensions and updated survey
Revision

Drawing Path: S:\PDP Projects\566 West Aston - Persimmon\Drawings\0-Infra Phase 2\1 Planning\566-PH2-P-100 General Engineering and Drainage Strategy