Proposed SW Connection to Existing Headwall. IL to be verified on site.

Control manhole with vortex flow control unit to limit flows to 86.1 l/s @ 1.4m head. Hydro Brake Optimum with 366mmØ Orifice (minimise upstream storage) or similar approved. Unit Ref: SHE-0366-8610-1400-8610

Localised deepening, 300mm max depth, at base of basin with permanent water level and planted with native wetland species

Proposed On-line Adopted Attenuation-Detention Basin 1 with appropriate forebay on inlets
Varying 1 in 3 / 1 in 4 side slopes
Base level 62.50m
Min. Crest level 64.00m
Top water level m (100yr return period +50% climate change).
Base area 1948.8m²
Crest area 2837.1m²
Storage Volume m³ (Max W.L.).
If required, basin to be provided with Bentotex Liner. Additional Groundwater monitoring required to confirm Basin design.

Proposed On-line Adopted Attenuation-Detention Basin 3 with appropriate forebay on inlets
Varying 1 in 3 / 1 in 4 side slopes in
Base level 66.00m
Min. Crest level 67.50m
Top water levelm (100yr return period +50% climate change).
Base area 1267.6m²
Crest area 2070.9m²
Storage Volume ³ (Max W.L.).
If required, basin to be provided with Bentotex Liner. Additional Groundwater monitoring required to confirm Basin design.

Localised deepening, 300mm max depth, at base of basin with permanent water level and planted with native wetland species

Control manhole with vortex flow control unit to limit flows to 100.0 l/s @ 1.35m head. Hydro Brake Optimum with 390mmØ Orifice (minimise upstream storage) or similar approved. Unit Ref: SHE-0390-1000-1350-1000

Proposed On-line Adopted Attenuation-Detention Basin 4 with appropriate forebay on inlets
Varying 1 in 3 / 1 in 4 side slopes.
Base level 70.50m
Min. Crest level 72.00m
Top water level m (100yr return period +40% climate change).
Base area 823.8m²
Crest area 1415.7m²
Storage Volume m³ (Max W.L.).
If required, basin to be provided with Bentotex Liner. Additional Groundwater monitoring required to confirm Basin design.

Localised deepening, 300mm max depth, at base of basin with permanent water level and planted with native wetland species

Localised deepening, 300mm max depth, at base of basin with permanent water level and planted with native wetland species

Proposed On-line Adopted Attenuation-Detention Basin 5 with appropriate forebay on inlets
Varying 1 in 3 / 1 in 4 side slopes.
Base level 73.50m
Min. Crest level 75.00m
Top water level m (100yr return period +50% climate change).
Base area 510.8m²
Crest area 982.6m²
Storage Volume m³ (Max W.L.).
If required, basin to be provided with Bentotex Liner. Additional Groundwater monitoring required to confirm Basin design.

Proposed On-line Adopted Attenuation-Detention Basin 2 with appropriate forebay on inlets
Varying 1 in 3 / 1 in 4 side slopes.
Base level 66.50m
Min. Crest level 68.00m
Top water levelm (100yr return period +50% climate change).
Base area 5014.4m²
Crest area 6954.9m²
Storage Volume m³ (Max W.L.).
If required, basin to be provided with Bentotex Liner. Additional Groundwater monitoring required to confirm Basin design.

Localised deepening, 300mm max depth, at base of basin with permanent water level and planted with native wetland species

Localised deepening, 300mm max depth, at base of basin with permanent water level and planted with native wetland species

Proposed On-line Adopted Attenuation-Detention Basin 6 with appropriate forebay on inlets
Varying 1 in 3 / 1 in 4 side slopes.
Base level 77.50m
Min. Crest level 79.00m
Top water level m (100yr return period +50% climate change).
Base area 1435.3m²
Crest area 2186.3m²
Storage Volume m³ (Max W.L.).
If required, basin to be provided with Bentotex Liner. Additional Groundwater monitoring required to confirm Basin design.

Proposed Foul Connection to Existing 225mmØ Foul Sewer via a new manhole. IL to be verified on site.

Proposed Foul Connection to Existing 225mmØ Foul Sewer via a new manhole. IL to be verified on site.

Location of Existing 225mmØ Foul Sewer to be accurately determined on site.

Proposed 150mmØ Foul Connections to Existing 225mmØ Foul Sewer at Ex MH 4102. IL to be verified on site.

Ex MH 5501 C.L 78.29 I.L No info

Ex MH 5401 C.L 78.37 I.L 77.21 Level & Location to be checked on site.

Ex MH 5406 C.L 78.32 I.L 76.40 Level & Location to be checked on site.

Ex MH 5405 C.L 84.03 I.L 76.09

Ex MH 4301 C.L 81.81 I.L 78.08

Ex MH 4201 C.L 83.39 I.L 79.89

Ex MH 4102 C.L 83.45 I.L 80.55 Level & Location to be checked on site.

b.c. (42+43)

KEY

S.W.	Foul	
		Proposed Sewer
		Proposed Disconnection Manhole
53.20		Proposed Finished Floor Level
		Existing Combined Sewer
		Existing SW Sewer
51.00		Proposed Road Level
× 29.35		Existing Level
		Site Boundary

Rev	Date	Initials	Details
B	12/08/25	NE	Drainage amended to suit revised Architects layout.
A	06/11/23	SAP	Notes to basins amended

Drawing Revisions

North Point

Quality Ass.
UKAS 005 Quality Assurance ISO 9001 SGS Certificate GB02/54539

Project
Marchon, Whitehaven

Client
Persimmon Homes (Lancashire)

Title
Preliminary Drainage Layout Sheet 1

PRELIMINARY

Original Size
A0

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Drawn	Checked By
SAP	SRG
Date	Scale
Oct 23	1:500

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Drawing No. 30506/100/1 Revision B