Note:

We have assumed that 30m length of Swale provides 28% Total Phosphorous removal and hence, the Swales have been divided to multi-treatment units as shown in the drawing.

HYDRO-BRAKE FLOW CONTROL CHAMBER
Flow Control Chamber
Hydro-brake Optimum
Unit Reference CHE-0162-1500-1200-1500
Design Head :1.2m
Design Flow :15.0 l/s
Suggested Manhole Diameter :1200 mm
Cover Level :25.000m
Invert Level :23.500m

Attenuation Pond (1.50m Deep)
Side Slopes = 1:3
Volume to TWL = 2143.0m3
Bottom of pond level = 23.500m
TWL = 24.800m
Berm Level: 25.000m = 200mm above TWL

Safety, Health & Environmental Information:

In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please note the significant hazards identified by symbols below,

INDICATES A RESIDUAL RISK AS A WARNING

INDICATES A RESIDUAL RISK FOR INFORMATION

and described below:

Construction/Maintenance/Cleaning/Demolition
Refer to Drawing:

General Notes:

1. Do not scale from this drawing.
2. All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.
3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.
4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.
5. The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.
6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.
7. This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

Drainage Key:

DNXXX SWS @ 1:XXX	Proposed Stormwater
	Proposed ACO Channel Drain
	Proposed Foul Sewer
SXX	Proposed Stormwater Manhole
FXX	Proposed Foul Sewer Manhole
SXX	Proposed Stormwater Hydro-brake
S0X	Proposed Ridgistorm Separate Catchpit
	Proposed Road Gully
	Proposed ACO Drain Gully Outlet
	DN150 Gully / RWP Connector
RWP	Proposed Rain Water Pipe
PXX	Proposed Permavoid Diffuser Unit and Connector Dimension: L=708mm x W = 354mm x D = 150m
	Proposed 0.3m wide kerb breaks
ex. DN225 WW COMB	Existing DN225 mm Welsh Water Combined Water Sewer
	Rain Garden
	Permeable Paving
	Green Roof

Rev	By / Chk'd	Date	Description
P04	IW/AM	07/07/2025	Pond realignment
P03	IW/AM	09/06/2025	Updated to suit Pre-SAB comments
P02	IW/AM	20/05/2025	Drainage details updated
P01	IW/AM	04/03/2025	Preliminary issue for client comments

PRELIMINARY DRAWING
This drawing is not to be used for construction

Client
FI REAL ESTATE MANAGEMENT

BarnsleyMarshall Limited
4&5 Prior Wharf
Harris Business Park, Hanbury Rd
Stoke Prior, Bromsgrove
B604FG
Tel: 01905 330550
Email: design@barnsleymarshall.co.uk
Web: www.barnsleymarshall.co.uk

Project
The Oaks Site
Wrexham Industrial Estate

Drawing
Drainage Plan Layout

By IW/AM Date 18/02/2025

Drawing No. TOS-BML-XX-XX-DR-C-0500 Revision P04

BML Job No. 1000-06 Status -

Drawing Scale at A1: 1:500

CAD Filename: Y:\Projects\1000-06 The Oaks Site, Wrexham Ind Est\Information - Working\DWG\TOS-BML-XX-XX-DR-C-0500 P04 - Drainage Plan Layout.dwg

KEY:

	Application Boundary
	Ownership Boundary
	Proposed Fence Line

Scale 1:500 (0, 10, 25, 50m)