



Drainage Legend:

- Site Boundary
- Public Surface Water Sewer
- Newly Diverted Public Surface Water Sewer
- Abandoned Route
- Rodding Eye
- Surface Water Drainage
- Flow Control Chamber
- Foul Water Drainage
- Cellular Attenuation
- Type C Permeable Paving
- Permeable Resin Bound Gravel
- Perforated Pipe
- ACO Channel Drain
- Threshold Drain

- SAFETY, HEALTH & ENVIRONMENTAL HAZARD INFORMATION BOX.**
- The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing.
- CONSTRUCTION RISKS:**
- Deep Trenches
 - Unforeseen Services
 - Leptospirosis
- DEMOLITION RISKS:**
- Leptospirosis
- Notes:**
- DO NOT SCALE FROM THIS DRAWING.
 - All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
 - Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
 - All levels and dimensions are to be checked on site before any work commences.
 - The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, reflectorised clothing, and the use of any other required safety equipment.
- Drainage:**
- Invert levels of existing manholes to be checked on site prior to commencing any drainage works.
 - For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
 - All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
 - Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
 - All in-situ concrete shall be minimum grade GEN3.
 - Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
 - Rising mains shall be black MDPE SDR11 as WI 4-32-03 & joints & fittings to be in accordance with WI 4-32-04. Other approved pipe materials to be in accordance with their relevant BS.
 - Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
 - Where there is no intermediate manhole between the start of a surface water pipe run and the soakaway the gradient of the run shall be not less than 1 : 60.
 - All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.

TANK 1 serving Plots 6-9

40m² x 1.6m deep Polytype PSM1A Polystorm cellular tank wrapped in an impermeable membrane, suitably sized to cater for all storms up to and including a 1 in 100 year storm + 40% for climate change.

CL: 101.150
Soffit: 99.960
IL: 98.360

1200mmØ Ridgistor Check Vortex Hydro-Brake Flow Control Chamber restricting flows.

CL: 100.729
IL: 98.318
Discharge Rate: 2l/s
Design Head: 1642mm
Unit Ref: MD-SHE-0060-2000-1642-2000

A lesser discharge rate would require a smaller aperture leading to frequent maintenance and and increased possibility of blockages

Newly diverted existing STW surface water sewer to discharge into ditch at entrance of site by gravity.

IL: 98.877

Break chamber

Direct S106 agreement required with Severn Trent Water to discharge foul flows.

Position, system type and invert level to be confirmed prior to construction. Engineer to be notified immediately.

Foul water proposed to discharge into STW FWHM 4700 within the A47 Public Highway approximately 53m away from F17 Adoptable

CL: 96.880
IL: 93.730

From STW asset records, there is sufficient fall to discharge foul water from site solely by gravity

Second discharge point of surface water flows into ditch

IL: 97.077

P2	20/04/2023	Second tank and discharge location added	NN / FW
P1	04/04/2023	Issued for comments	NN / FW
Rev	Date	Description	By / Chk

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Client:
Stronghold Homes

Architect:
Hayward Architects

Project:
**Proposed Development
Breach Lane, Earl Shilton
LE9 7FB**

Title:
Proposed Drainage Layout

Status:
PRELIMINARY

Engineer:	NN	Date:	April 2023
Drawn:	NN	Scales @ A1:	1:250
Checked:	FW		
Project No:	82639	Drg No:	101
		Rev:	P2

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