



Proposed Cellular Storage (Cells 1)

Length x Width x Depth
5m (5 cells) x 16m (32 cells) x 1.2m (3 cells)
Cell Unit Size = 1.0m x 0.5m x 0.4m
Vented System

Maximum storage volume = 136.8m³

MH S4
CL: 51.490 mAO
HL Overflow: 50.450 mAO (225Ø)
IL: 49.175 mAO (450Ø)

Catchpit (CP1)
CL: 51.741 mAO
IL: 49.226 mAO (225Ø)
Base Level: 48.926 mAO (300mm sump)

Cells 1
CL: 51.756 mAO
Incoming IL: 49.243 mAO
Cells IL: 49.243 mAO

Drainage Strategy - Surface water

Soakaway testing conducted in accordance with BRE365 confirm infiltration is not viable. Surface water from the development site will discharge into the existing surface water drain (MH Ref: 6123) located to the east of the boundary of the site at a greenfield runoff of 4.0 l/s.

We are proposing permeable paving on all driveways, as well as water butts for each property. Additionally, tree pits are proposed to be used along the highway verges subject to approval with the relevant adopting bodies.

The surface water pipe network has been designed to cater for all storm events up to and including the 1:100yr+45% Climate Change event.

Legend

- Site Extents
- Existing Surface Water System
- Existing Foul Water System
- Proposed Adaptable Surface Water System
- Proposed Adaptable Foul Water System
- Tree root protection zone

Flow Control Chamber Manhole S1HB

Hydro International HydroBrake Optimum
SHE-0086-4000-1.600-4000
Design head = 1.600 m
Restricted discharge max. = 4.0 l/sec
Flow control orifice size 150mm
Cover level: 50.627 mAO
Invert level: 48.978 mAO

Proposed Surface Water Connection MH6123 (Existing)

A connection is proposed into the existing surface water sewer within Semington Turnpike. Existing rights to connect with title.

Cover level: 50.000 mAO
Invert level: 48.701 mAO
Both cover levels and invert levels given by Wessex Water

Proposed Connection Invert Level - 48.701 mAO

Proposed Cellular Storage (Cells 2)

Length x Width x Depth
36m (36 cells) x 18m (36 cells) x 1.2m (3 cells)
Cell Unit Size = 1.0m x 0.5m x 0.4m
Vented system

Maximum storage volume = 738.7m³

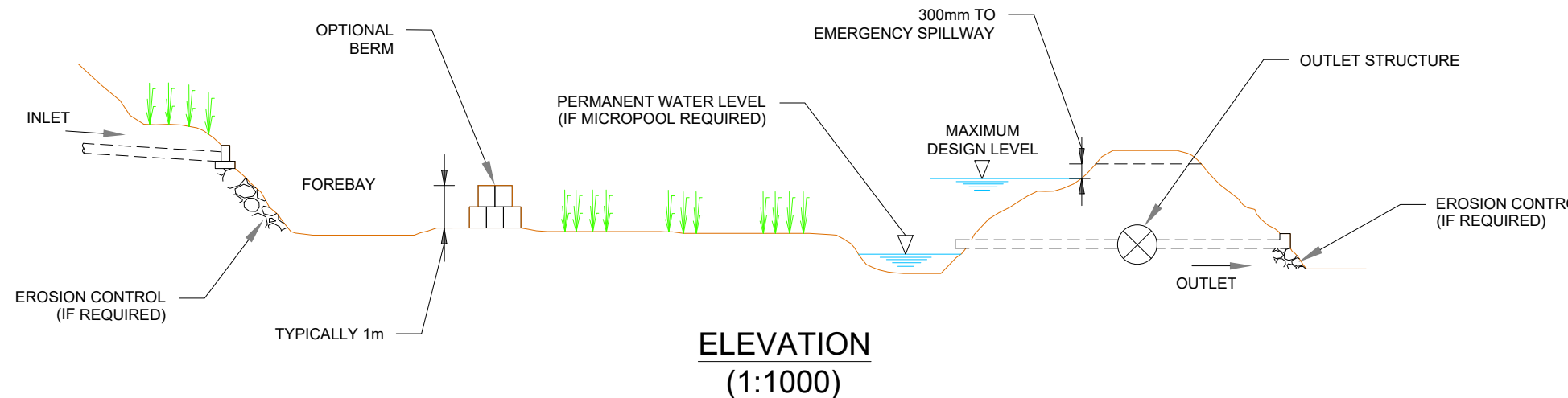
MH S6
CL: 51.465 mAO
HL Overflow: 50.412 mAO (225Ø)
IL: 49.316 mAO (600Ø)

Catchpit (CP2)
CL: 51.412 mAO
IL: 49.363 mAO (225Ø)
Base Level: 49.063 mAO (300mm sump)

Cells 2
CL: 51.455 mAO
Incoming IL: 49.392 mAO
Cells IL: 49.392 mAO

Proposed Retention Basin

Sized to contain the 1:100 year storm + 45% climate change stormwater storage
Base Level: 49.448 mAO
Top of Bank Level: 50.948 mAO
Top Water level (1 in 100 yr+cc): 50.623 mAO
Freeboard: 325 mm
Maximum storage volume: 951 m³



P03	13.08.26	Removed topographical and tree survey	WM	TR
P02	13.08.26	Amended retention basin position	WM	NR
P01	07.08.26	Preliminary issue for review	WM	RN

Mark	Date	Details	By	CHK
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Revision history

Drawing originator:



Client:

HSL | HOLLINS STRATEGIC LAND

Project title:

Turnpike Close
Semington

Drawing title:

Preliminary Surface Water
Drainage Layout

Scale: 1:500 for the original size of A1

Drawn by: WM Checked by: RN Passed by: RN Date: July 2026

Drawing status:

Preliminary

Job No:	Drawing No:	Project	Origin	Volume	Level	Type	Discp.	Number	Revision:
HYD1097	XX	BET	ZZ	XX	DR	C	0001	P03	

Do not scale this drawing
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