N

0m 10m 20m 50m

KEY

- Existing 750mm ⌀ Storm Culvert
- Adoptable Storm Drain (SAB)
- Private Storm Drain
- Swale / Rain Garden with underdrain
- Permeable Paving
- Rain Garden
- Rain Garden Box Planter
- FC Flow Control Device
- Adoptable Foul Sewer (S104)
- Foul Rising Main (S104)

DRAINAGE HIERARCHY

Integral Geotechnique's Geotechnical report (12722/LW/20/SI REV B) dated December 2020 confirms 'None or negligible infiltration was observed at each trial pit location and therefore no infiltration rate could be calculated for any of the tested locations.'

Subsequently it is proposed to discharge SW runoff from the site to the existing watercourse

SW runoff flows into the culverted watercourse are to be restricted to Greenfield runoff rates in accordance of Standard S2 o the Wales SuDS Standards.

In accordance of Standard S3 o the Wales SuDS Standards, SW runoff is to be intercepted through using permeable paving, swales and bio-retention areas to improve the water quality discharging to the existing watercourse.

Proposed SuDS Strategy is subject to consultation and approval from NPT SAB

Proposed flow control device to restrict flows to Greenfield rates

Existing 750mm Culvert outfall to watercourse

Proposed SW connection to existing culvert. Flows to be restricted to Greenfield rates

Proposed Detention Basin - approx 250m³ storage volume

SW outfall to detention basin

Detention basin to be situated above existing culvert - to be agreed with NPTC

Area for use as open space to be used to attenuate flows above 1 in 30 year critical storm

Stepped access to dual-use attenuation area for play and maintenance

Proposed Type 3 Foul Pumping Station (to be adopted by DCWW)

Existing sewer levels to be confirmed

Proposed foul outfall to existing Combined sewer network - subject to DCWW approval

Proposed Swale with 225mm underdrain

Existing Storm Culvert

Proposed foul rising main - approx length 215m

Proposed Swale to convey highway runoff

All driveways / parking areas to comprise a permeable paving construction. Areas to accommodate rooftop runoff from respective plot, with all flows restricted prior to be discharged to carrier drain

Proposed SW & FW spurs to serve potential development on adjacent land

All driveways / parking areas to comprise permeable paving construction. Areas to accommodate rooftop runoff from respective plot, with all flows restricted prior to be discharged to carrier drain

Existing Storm Culvert

MEADOW ROAD

EAGLEBUSH HOUSE

G10-Ash

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rev	date	description	by
A	08.02.21	Drainage spurs added to adjacent land.	MCC
B	19.03.21	Updated to suit revised site layout.	MCC
C	09.04.21	Updated to suit revised site boundary.	MCC

rev	date	description	by
-	-	-	-

Status: **PLANNING**

Drawn: RMJ
Checked: MCC
Date: December 2020
Scale: 1:250

Client: Jones Brothers & Tai Tarian
Project: Meadow Road, Neath
Title: Drainage Strategy Plan
Ref: 2430-500 Rev: C

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Superseded