Legend

- Existing Welsh Water Foul Sewer
- FFL Level
- Proposed spot level
- Existing level retained
- Underbuild
- Tanked retaining wall
- Retaining Wall
- Tanking
- Proposed fall and ient
- Drainage grip (300mm wide 700mm deep filled with 550mm wrapped pea shingle and topped with 150mm top soil)
- Filter Drain (500mm wide 1000mm deep filled with clean stone and topped with 150mm top soil)
- Overland flow/flood exceedance route
- Steps (maximum rise 150mm minimum going 300mm, maximum of 12 steps per flight)
- Banking (maximum ient 1:2 unless confirmed by engineer)
- Proposed Adoptable Foul Sewer (Section 104)
- Proposed Adoptable Foul IC and drain (Section 104)
- Proposed Adoptable Surface Sewer
- Proposed Adoptable Surface Sewer IC and drain
- Private foul drain (100Ø unless shown otherwise)
- Private foul inspection chamber <3.0m deep with restricted access depths over 1.2m (450Ø and 700mm deep unless noted)
- Private foul access chamber depth to invert 700mm (225Ø)
- Private surface water drain (100Ø unless shown otherwise)
- Private surface water inspection chamber <3.0m deep with restricted access depths over 1.2m.
- Rodding eye (450mm deep unless noted otherwise)
- Drive Gully
- Channel / Aco drain or similar approved
- Road gully & connection (Highway Section 38)

LEGEND - SABS FEATURES

- Dished Channel Block
- Proposed Adoptable 600mm Linear Bioretention Area
- Proposed Adoptable 1000mm Linear Bioretention Area
- Proposed Adoptable1200mm Liner Bioretention Area
- Highway fall direction
- Standard Gully - cover 100mm above base
- Private Raingarden / Bio-Retention Area
- Proposed SAB Adoptable Permeable Paving (attenuation within sub-base)
- Proposed SAB Adoptable Cellular Attenuation (sized to accommodate flows up to and including the 1 in 100 year + 40% storm event)
- Proposed SAB Adoptable Attenuation Basin (sized to accommodate flows up to and including the 1 in 100 year + 40% storm event)
- Proposed Private Permeable Paving (attenuation within sub-base)
- Proposed Adoptable Bioretention Area/Raingarden

FILTER DRAIN WITH 500mm HIGH BUND CONSTRUCTED FROM SITE WON CLAY BEHIND TO INTERCEPT OVERLAND FLOW FROM NEIGHBOURING LAND (FULL DESIGN TO BE CONFIRMED)

1 in 8 Shared access - proving 3m wide access for future maintenance and non-adopted pedestrian link

MIRA MONTE

Access

PLOT 5 GARDEN BOUNDARY TO BE AMENDED

HYDROBRAKE FLOW CONTROL
DESIGN HEAD 2.2m
DESIGN FLOW 2.0l/s

CELLULAR ATTENUATION
4 x 13 x 1.6m DP
BASE LEVEL 283.95
SOFFIT LEVEL 285.55

NEW FOUL SEWER CONNECTION TO EXISTING ADOPTED 150mmØ FOUL SEWER. CONNECTION TO BE MADE VIA A S106 NOTICE VIA DCWW. INVERT LEVEL TBC.

FOOTWAY REJOINS ORIGINAL ALIGNMENT

ATTENUATION PROVIDED WITHIN POROUS PAVING OVER CELLULAR ATTENUATION
80m² POROUS PAVING 0.8-1.3m DEEP
CELLULAR ATTENUATION 11 x 5 x0.8m DP

185Ø BOREHOLE SOAKAWAY 30m DEEP - INFILTRATION COEFFICIENT 0.367m/hr

185Ø BOREHOLE SOAKAWAY 30m DEEP - INFILTRATION COEFFICIENT 0.367m/hr

185Ø BOREHOLE SOAKAWAY 30m DEEP - INFILTRATION COEFFICIENT 0.208m/hr

RELOCATED HIGHWAY GULLY TO ALLOW FOR ROAD WIDENING. CONNECTED TO EXISTING SURFACE WATER SYSTEM

Existing Gated Access

Gated Access

Gated Access

Bin

Crabtree Walk

Exsting Housing

GENERAL NOTES

1. Do Not Scale
2. The contractor is to check and verify all buildings and site dimensions and levels, including sewer invert levels, before works start on site. The contractor is to comply in all aspects with the current building legislation, British Standards, building regulations etc.
3. Positions of existing services/statutory undertakers apparatus adjacent to or crossing proposed excavations are to be checked by the contractor prior to starting work
4. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, Specification and any structural, geotechnical or other specialist document provided.
5. Any anomaly or contradiction between any of the above is to be reported to WDL Homes.
6. This drawing is schematic for clarity only, positions of pipe runs and manholes may vary on site due to site conditions.

ROAD AND DRAINAGE NOTES

1. All works for adoption under a Section 38 agreement shall be carried out to the approval of the Merthyr Tydfil County Borough Council.
2. All works for adoption under a Section 104 agreement shall be carried out to the National Water Council guide 'Sewers for Adoption' 7th edition and Dwr Cymru Welsh Water's requirements.
3. Streetlighting positions to be pegged on site and agreed by the Local Authority PRIOR to erection commencing.
4. All works for adoption of surface water drainage features are to be carried out in agreement with the SuDS Approving Body (SAB) Officer.
5. The surface water drainage design must be approved by the SAB prior to commencing onsite.
6. During preliminary design the worst case infiltration rate provided by Integral Geotechnique in letter 12411/PD (30 April 2019) has been used at all proposed borehole soakaways.
7. Each of the proposed borehole soakaways have been designed to 30m deep.

Rev.	Date	Details	By.	Chk.
B	05/02/21	Plot 15 amended, Plot 45 SuDS feature relocated	MP	SJD
A	09/12/20	Layout updated to SAB requirements - Highway put into crossfall, bioretention linear features added and drainage updated to suit	MP	SJD
-	-	First Issue.	TOR	SJD

Amendments

Client:

WDL Homes
Making a house into your new home

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Project:

WDL Homes
Trefechan

Drawing Title:

Engineering Layout
Sheet 1 of 2

Drawn:	Chk:	Status:	Scale:
TOR	SJD	Preliminary	1:250@A1

Date:	Job No.	Dwg. No.	Rev.
June'20	1914	001-3	B