



- 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 Barratt 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 SEWER ADOPTION NOTES**
1. All works for adoption under a Section 38 Agreement shall be carried out to the approval of the Swansea City 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. Street lighting positions to be pegged on site and agreed by the Local Authority PRIOR to erection commencing.

- Legend**
- Proposed surface water drain
 - Adoptable Foul Sewer & Manhole
 - Adoptable rising main
 - FFL
 - Proposed spot level
 - Proposed fall and gradient
 - Underbuild
 - Tanking
 - Tanked retaining wall
 - Retaining Wall
 - Raingarden
 - Bioretention area
 - Dry swale
 - Root protection area
 - Channel / Aco drain or similar approved
 - Channel Block
 - Filter Drain
 - Private surface water inspection chamber <3.0m deep with restricted access depths over 1.2m.
 - Catchpit with gully grid
 - Permeable paving/porous asphalt
 - SuDS Inlet

REV	DATE	DETAILS	AMENDMENTS	BY	CHK
G	27/11/20	Minor amendments		PO	SJD
F	19/11/20	Site Layout Revised, Dwg amended to suit		PO	SJD
E	19/11/20	Drainage amended		PO	SJD
D	12/11/20	Minor amendments		PO	SJD
C	12/11/20	Site Layout Revised, Dwg amended to suit		PO	SJD
B	24/08/20	RPA added. Plot 1 raingarden replaced with porous paving		PO	SJD
A	21/08/20	Pre-SAB Issue		PO	SJD
-	16/07/20	First Issue		PO	SJD



PROJECT:
Barratt Homes
Ty Fry Farm,
Glebe Road, Loughor

DRAWING TITLE:
Engineering Layout

DRAWN	CHK	STATUS	SCALE
TL	SD	Planning	1:250 @ A1
DATE	JOB NO.	DWG. NO.	REV.
Jul-20	2071	001	G

DRY CONVEYANCE SWALE
SIDE SLOPE 1 in 3
AVERAGE DEPTH = 300 mm
FILTER MEDIUM = min. 400 mm

FLOW CONTROL CHAMBER
IL = 43.388 m AOD
DESIGN HEAD = 1.3 m
DESIGN DISCHARGE RATE FOR 1 in
100 YR + 40 % CC TO QBAR = 6.2 l/s
HYDRO-BRAKE® OPTIMUM USED IN
HYDRAULIC DESIGN
REF: MD-SHE-0108-6200-1600-6200

PROPOSED ATTENUATION POND
TOP OF BANK LEVEL = 45.05 m AOD
BASE LEVEL = 43.450 m AOD
MAXIMUM DEPTH = 1.60 m
INTERNAL BANK 1 in 3
EXTERNAL BANK 1 in 2
MAXIMUM ATTENUATION STORAGE: 237 m³

PROPOSED PUMPING STATION COMPOUND.
COVER LEVEL = 46.60m AOD
INLET LEVEL = 43.275m
HWL ALARM = 42.225m (PROVIDING 1.05m STORAGE)
SUMP LEVEL = 41.225m
WET WELL BASE = 40.225m
EMERGENCY STORAGE FOR 23 UNITS @ 240 LITRES /
UNIT = 5.5m³
STORAGE WITHIN 2.7mØ WET WELL
THE COMPOUND FENCING IS WELD MESH MATERIAL
(COLOURED GREEN).
(EXACT COMPOUND LAYOUT TO BE CONFIRMED)

ADOPTED BIORETENTION AREA TAKING
HIGHWAY RUNOFF
PLAN AREA 10.6 m²
FILTER MEDIUM 400 mm
DRAINAGE MEDIUM MIN 250mm

FILTER DRAIN
WIDTH 900 mm

PROPOSED RISING MAIN
TO CONNECT INTO
EXISTING MANHOLE