NOTES

1. This drawing is copyright.
2. All dimensions are to be checked prior to construction or manufacture. Any discrepancy to be reported to the Engineers immediately.
3. Do not scale this drawing, work to figured dimensions only.

EMBANKMENT SUBJECT TO RE-GRADING WORKS : REFER TO DRAWINGS S.7810-SAB-007 & S.7810-SAB-008 FOR PROPOSED SECTIONS

PROPOSED SURFACE WATER DRAINAGE FROM DEVELOPMENT SITE TO DISCHARGE TO EXISTING WATER COURSE SUBJECT TO APPROVAL FROM AND AGREEMENT WITH M.T.C.B.C. DRAINAGE.

PROPOSED SURFACE WATER DRAINAGE FROM DEVELOPMENT SITE TO DISCHARGE TO EXISTING WATER COURSE SUBJECT TO APPROVAL FROM AND AGREEMENT WITH M.T.C.B.C. DRAINAGE

FLOW CONTROL CHAMBER

HEADWALL STRUCTURE

NOTE :
PROVIDE WATER BUTTS TO ALL PROPERTIES.

DRAINAGE KEY

- PROPOSED PERMEABLE PAVING SYSTEM TO INDIVIDUAL PARKING PARKING BAYS WITH DISCHARGE TO THE SURFACE WATER SYSTEM. NO INFILTRATION TO GROUND - FOR WATER QUALITY AND PARTIAL S.W. STORAGE ONLY.
- PROPOSED SERVICE STRIP FOR SAB DRAINAGE : STANDARD PAVIORS (NON PERMEABLE)
- PROPOSED ROAD SWALE
- PROPOSED DETENTION BASIN (FOR ROAD DRAINAGE) WITH MODULAR STORAGE UNITS BELOW AND INDICATING MAXIMUM WATER LEVEL FOR ABOVE GROUND SURFACE WATER STORAGE
- PROPOSED RAIN GARDEN (FOR DRIVE DRAINAGE) WITH MODULAR STORAGE UNITS BELOW
- PROPOSED DOMESTIC RAIN GARDEN FEATURE WITH 150mmø PERFORATED PIPE BELOW.
- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE
- EXISTING WATERCOURSE
- PROPOSED FOUL WATER DRAINAGE [DOMESTIC]
- PROPOSED FOUL WATER DRAINAGE [S104]
- PROPOSED SURFACE WATER DRAINAGE [DOMESTIC]
- PROPOSED SURFACE WATER DRAINAGE [SAB]
- PROPOSED FLOW CONTROL CHAMBER [SAB] SEE TABLE FOR DETAILS
- PROPOSED CHANNEL DRAINAGE [EG. ACO]
- PROPOSED KERB DRAINAGE SYSTEM WITH PIPED DISCHARGE INTO DETENTION BASIN [S38]
- PROPOSED S.W. ATTENUATION : WAVIN AQUACELL SYSTEM OR EQUIVALENT
- OVERFLOW / VENT PIPE COMPLETE WITH PROPRIETARY COWL FOR GEOCELL STORAGE TANKS IN DETENTION BASIN RAIN GARDEN AREAS.
- O/F — OVERFLOW / CLEANING ACCESS PIPE COMPLETE WITH PROPRIETARY COWL FOR RAIN GARDENS, SWALES AND FILTER DRAINS : SEE PLAN FOR LOCATIONS

SURFACE WATER STORAGE / FLOW CONTROL REQUIREMENTS :

ZONE	VOLUME REQUIRED	FLOW CONTROL CHAMBER	DISCHARGE RATE	HEAD	HYDROBRAKE REF
1	TBCm³	S49	TBC l/second	0.00m	TBC
2	TBCm³	S10	TBC l/second	0.00m	TBC

KEY TO KERB TYPES

- HB2 HALF BATTERED : 125mm UPSTAND
- SP2 – 45 SPLAY : 75mm UPSTAND
- MINI BEANY BLOCK : 75mm UPSTAND
- MINI BEANY BLOCK : 25mm UPSTAND
- BN2 BULLNOSED : 25mm UPSTAND
- BN2 BULLNOSED : 6mm DOWNSTAND
- BN2 BULLNOSED : 6mm UPSTAND

NOTES :

USE BN2 BULLNOSED KERB WITH 6mm UPSTAND AT TACTILE CROSSING ONLY.

NO TRANSITION KERBS HAVE BEEN SHOWN FOR CLARITY

GENERAL NOTE : FOUL WATER DRAINAGE

ADOPTION OF THE FOUL WATER DRAINAGE IS TO SUBJECT TO THE APPROVAL OF DCWW.

ALL ADOPTED FOUL WATER DRAINAGE TO BE 100mmø WHERE IT SERVES 10 PROPERTIES AND LESS. A MINIMUM OF 150mmø IS TO BE USED WHERE IT SERVES MORE THAN 10 PROPERTIES.

THE ADOPTABLE FOUL WATER DRAINAGE DESIGN IS SUBJECT TO APPROVAL BY DWR CYMRU WELSH WATER. ANY CONTRACTOR COMMENCING DRAINAGE WORKS PRIOR TO THE COMPLETION OF THE AGREEMENT WILL BE ACTING UNLAWFULLY.

ALL ADOPTABLE DRAINAGE IS TO WITH : SEWERS FOR ADOPTION 7th EDITION

MERTHYR VALLEYS HOMES

SMART ASSOCIATES
Consulting Civil & Structural Engineers
32 Lambourne Crescent
Cardiff Business Park
Llanishen, Cardiff
CF14 5GG
TEL: 029 20754321

Project Title: DEVELOPMENT AT SWANSEA ROAD MERTHYR TYDFIL

Drawing Title: SAB : SITE LAYOUT – DRAINAGE

Scales 1:250 @ A1 | Drawn av | Checked | Date APR 2023 | Client MERTHYR VALLEYS HOMES | Architect C2J ARCHITECTS

Drawing Number: S.7810-SAB-004 | REV: D

REVISIONS

REV	DATE	BY
D	19 JUL 2023	av
PARKING LAYOUT TO PLOTS 7 – 14 UPDATED TO SUIT ARCHITECTS LAYOUT		
C	14 JUL 2023	av
SITE PLAN UPDATED TO MTCBC HIGHWAYS RECOMMENDATION		
B	14 JUN 2023	av
ROAD LEVELS ADJUSTED		
A	22 MAY 2023	av
LAYOUT / DRAINAGE UPDATED		