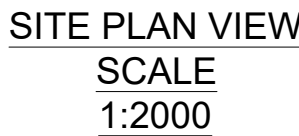


AREA (m ²)	PROPOSED GROUND LEVEL (m)	PROPOSED BED LEVEL (m)	DEPTH (m)	TOTAL BASIN VOLUME (m ³)	100-YEAR RETURN PERIOD POND DEPTH / FREEBOARD (m)
730.404	3.600	1.155	2.445	1,046.9	3.292 / 0.308



Significant risks associated with this drawing are identified below and, where applicable, at specific locations on the drawing.
Refer to the CDM Regulation 9 Risk Register
(30004595-BHK-XX-XX-RE-HS-0012) for full details.

1. DO NOT CONSTRUCT FROM THIS DRAWING - FOR REVIEW ONLY
2. WORKS WITHIN CLOSE PROXIMITY OF TO EXISTING OHL.
3. WORKS TO BE CONSIDERATE OF PRESENCE OF GROUND CONTAMINATION.
4. WORKING IN PROXIMITY TO ACTIVE DRAINAGE DITCHES, CARE SHOULD BE TAKEN WHEN NEAR DITCHES.
5. DEEP EXCAVATIONS REQUIRED FOR DETENTION BASIN. EXCAVATIONS SHOULD BE OPEN FOR THE MINIMUM TIME PRACTICABLE AND PROTECTED.









GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. G/L LEVELS ARE IN METRES AND ARE RELATIVE TO ORDNANCE DATUM (A.O.D).
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
5. DETAILS AND CONDITIONS OF ALL EXISTING SERVICES TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
6. DRAWINGS NOT TO BE USED FOR CONSTRUCTION.

DRAINAGE

1. DETENTION BASIN
 - 1.1. TOP OF DETENTION BASIN LEVEL: 3.6m AOD.
 - 1.2. BOTTOM OF DETENTION BASIN LEVEL: 1.55m AOD.
 - 1.3. MAXIMUM SLOPE OF DETENTION BASIN IS 1:3 (V/H).
 - 1.4. WIDTH OF GRASSED MAINTENANCE AREA: 3m.
 - 1.5. MAXIMUM SLOPE FROM GRASSED MAINTENANCE AREA TO EXISTING SURFACE IS 1:3 (V/H)
2. PIPE NETWORK
 - 2.1. INVERT LEVEL OF INLET HEADWALL: 1.195m AOD.
 - 2.2. INVERT LEVEL OF OUTLET HEADWALL: 1.155m AOD.
 - 2.3. OUTLET AT THE OF PIPE NETWORK TO BE PUMPED INTO UPPER MOTHER DITCH.
3. PUMP CHAMBER, FLOW TO BE LIMITED TO 2.9/sec FOR UP TO 1 IN 100-YEAR RETURN PERIOD WITH 40% CLIMATE CHANGE APPLIED, IN ACCORDANCE WITH WELSH GOVERNMENT CLIMATE CHANGE GUIDANCE.
3. EXISTING LEVELS BASED ON COMBINATION OF TOPOGRAPHICAL SURVEY (109964_03_01 - Bakerkicks - Margam South Wales - GPR Utility Mapping & Topographical Survey) AND LIDAR INFORMATION.

KEY:

- | | |
|---|-----------------------------------|
|  | SURFACE WATER PIPE |
|  | SURFACE WATER CATCHMENT CHAMBER |
|  | GRASSED MAINTENANCE AREA |
|  | EARTHWORKS CUT SECTION |
|  | EARTHWORK FILL SECTION |
|  | 100-YEAR RETURN PERIOD POND DEPTH |
|  | EXISTING GROUND LEVEL |
|  | DETENTION BASIN LEVEL |

NOTE - FOR CLARITY THIS DRAWING
SHOULD BE PLOTTED IN COLOUR

PRELIMINARY

P01	S3 - FOR REVIEW AND COMMENT	KA	CE/JD	30.05.2025
Rev	Description	Cre'd	Chk'd / App'd	Date

nationalgrid

National Grid Electricity Transmission plc, Warwick Technology Park, Gallows Hill, Warwick. CV34 6DA

Master Scheme No: 101677	Sub-Scheme No:	Site: MARGAM / PORT TALBOT
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Scheme Name: MARGAM CONNECTION

Document Title:

MARGAM DRAINAGE
ATTENUATION DETAILS
SHEET 01 OF 01

Created by: KA	Date: 30.05.25	Checked by: CE	Date: 30.05.25	Approved by: JD	Date: 30.05.25
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