INSET A. SCALE 1:500

PROPOSED PUMP CHAMBER, FLOW TO BE LIMITED TO 2.9 l/sec FOR UP TO 1 IN 100-YEAR RETURN PERIOD WITH 40% CLIMATE CHANGE APPLIED, IN ACCORDANCE WITH WELSH GOVERNMENT CLIMATE CHANGE GUIDANCE.

SMH1-012

PROPOSED OUTLET HEADWALL TO EXISTING DITCH.

SMH1-011

3.0m WIDE GRASSED MAINTENANCE AREA.

1.016

1.017

1.016

PROPOSED OUTLET HEADWALL FROM DETENTION BASIN

SMH1-010
Drain

1.014

PROPOSED INLET HEADWALL TO DETENTION BASIN. SEDIMENT FOREBAY PROVIDED AT INLET LOCATION.

TOPOGRAPHICAL SURVEY OF UPPER MOTHER DITCH (BOTH SIDES) AT OUTFALL LOCATION REQUIRED PRIOR TO FINALISATION OF DETAILED DESIGN

PROPOSED DETENTION BASIN
PLAN AREA: 716.1m²
BASE AREA: 203.4m²
DEPTH: 2.344m
FREEBOARD: 0.300m (MINIMUM)
SIDE SLOPES: 1 in 3

NATIVE PLANTING / WILDFLOWERS TO BE INCORPORATED INTO EARTHWORKS AND / OR GRASSED AREAS TO SUPPORT AMENITY AND BIODIVERSITY.

1.013

EXISTING DITCH TO BE DIVERTED TO EAST TO ACCOMMODATE PROPOSED DETENTION BASIN

Pond

ASSOCIATED DRAWINGS:

MARPT-BHK-01-ZZ-SH-C-081010 - 08_LOR_0001 - MARGAM DRAINAGE SCHEDULE SHEET 01 OF 01
~~MARPT-BHK-01-ZZ-DG-C-181009 - 18_LOR_0206 - MARGAM DRAINAGE LAYOUT SHEET 01 OF 01~~
MARPT-BHK-01-ZZ-DG-C-181022 - 18_LOR_0207 - MARGAM DRAINAGE CONSTRUCTION DETAILS SHEET 01 OF 02
MARPT-BHK-01-ZZ-DG-C-181023 - 18_LOR_0208 - MARGAM DRAINAGE CONSTRUCTION DETAILS SHEET 02 OF 02
MARPT-BHK-01-ZZ-DG-C-181025 - 18_LOR_0210 - MARGAM DRAINAGE CESSPOOL DETAILS SHEET 01 OF 01
MARPT-BHK-01-ZZ-DG-C-181026 - 18_LOR_0211 - MARGAM DRAINAGE ATTENUATION DETAILS SHEET 01 OF 01

SPECIFICATIONS:

1. DRAINAGE WORKS TO BE IN ACCORDANCE WITH:-
   - NGTS 2.10.01 - OIL CONTAINMENT (ISSUE 2 - DECEMBER 2020)
   - NGTS 2.10.05 - COVERS, DUCTS & TRENCHES (ISSUE 1 - APRIL 2017)
   - NGTS 2.10.09 - DRAINAGE (ISSUE 1 - APRIL 2017)
   - NGTS 3.10.02 - MATERIALS (ISSUE 2 - APRIL 2017)
   - NGTS 3.10.03 - EXCAVATE, BACKFILL AND RESTORE (ISSUE 2 - APRIL 2017)
   - NGTS 3.10.05 - PIPELINES (ISSUE 2 - APRIL 2017)

LAING O'ROURKE

PRELIMINARY

WATERCOURSE DIVERSION INDICATIVE. FINAL LOCATION TO BE CONSIDERATE OF FUTURE WORKS TO AVOID ITS PROPOSED EXTENTS. FOR DETAILS REFER TO MARPT-BHK-01-ZZ-DG-C-181601.

PROPOSED CHAMBER WITH PENSTOCK ON OUTGOING PIPE AND NON-RETURN VALVE ON INCOMING PIPES

PROPOSED FLOOD GATE AT NEW ACCESS TO NEW SUB STATION

PROPOSED 600mm CROSS CARRIAGEWAY PIPE TO BE 150mm BEDDED INTO THE GROUND TO FORM A NATURAL BED AND TO ALLOW EXISTING DRAINAGE POND DISCHARGE

PROPOSED ACCESS ROAD

3.0m WIDE GRASSED MAINTENANCE AREA.

REFER TO INSET A

PROPOSED SURFACE WATER GRAVITY SEWER SYSTEM CONVEYING RUNOFF FROM ONSITE DRAINAGE SYSTEM TO OFFSITE ACCESS ROAD SYSTEM. EXACT LOCATIONS AND TYPE OF CHAMBERS AND PIPES TO BE DETERMINED PRIOR TO DETAILED DESIGN BEING CARRIED OUT

SMH1-010
Drain

1.018

EXISTING DITCH TO BE DIVERTED TO EAST TO ACCOMMODATE PROPOSED DETENTION BASIN

SMH1-009

1.012

SMH1-008

SMH1-007

SMH1-006

SMH1-005

1.010

1.009

1.008

1.011

9000 LITRE CESSPOOL

CESS TANK INLET

SMH1-003

SMH1-002

SMH1-001

SIC1-010

SIC1-009

PARKING (6 x SPACES)

DIESEL GENERATOR

WATER TANK

5.000

1.006

1.005

4.000

FWMH02

FWMH04

FW 1.004

FW 1.003

FWMH03

FW 2.001

FW 3.001

SIC1-012

SIC1-014

6.001

SIC1-025

FW 2.002

FWMH05

6.000

FWMH06

SIC1-011

SIC1-005

SIC1-006

SIC1-007

SIC1-008

1.007

1.004

1.003

3.000

3.001

6.002

11.000

RWP

FW 3.002

SIC1-024

10.000

MSC1 COMPOUND

WASHDOWN AREA

FW 1.001

7.000

SIC1-013

GIS HALL CONNECTION 2

WASHDOWN CHAMBER

GIS HALL CONNECTION 1

FW 1.000

FWMH01

GIS HALL BUILDING

9.003

9.002

8.004

8.003

8.002

8.001

8.000

SIC1-022

SIC1-019

SIC1-018

SIC1-017

SIC1-016

SIC1-015

SIC1-004

SIC1-003

2.000

1.002

1.001

SIC1-002

1.000

SIC1-001

9.001

SIC1-021

9.000

SIC1-020

EXISTING POND

OUTFALL FROM EXISTING SUBSTATION

AMENITY BLOCK

EXISTING SUB STATION

PARKING (6 x SPACES)

EXISTING PYLON

START OF EXISTING DITCH DIVERSION

PROPOSED FLOOD GATE AT EXISTING ACCESS TO EXISTING SUB STATION

PROPOSED FLOOD GATE AT EXISTING ACCESS TO EXISTING SUB STATION

NOTE - FOR CLARITY THIS DRAWING SHOULD BE PLOTTED IN COLOUR

0 5 10 20 30
1:500 SCALE (m)

DRAINAGE LAYOUT
SCALE 1:500

Health & Safety
CDM regulations 2015

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 PLANNING ONLY
2. WORKS WITHIN CLOSE PROXIMITY OF LIVE OHL, SUFFICIENT CLEARANCES TO BE PROVIDED AT ALL TIMES.
3. WORKS TO BE CONSIDERATE OF PRESENCE OF GROUND CONTAMINATION.
4. WORKS TO BE CONSIDERATE OF PEAT PRESENCE/POOR GROUND CONDITIONS.
5. WORKING IN PROXIMITY OF OPEN WATER BODIES, CARE BE TAKEN DURING PLANT MANOUVRES.
6. DEEP EXCAVATIONS REQUIRED FOR CESSPOOL & DETENTION BASI, EXCAVATIONS TO BE OPEN FOR MINIMUM TIME PRACTICABLE AND PROTECTED DURING WORKS.
7. HIGH GORUND WATER LEVELS ON SITE. SUITABLE DEWATERING TO BE IN PLACE DURING INSTALLATION OF SYSTEMS.

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. UNLESS NOTED OTHERWISE, LEVELS (AOD) AND CO-ORDINATES (RELATIVE TO ORDINANCE DATUM) ARE IN METERS
3. DESIGN IN ACCORDANCE WITH:
   - 3.1. NATIONAL GRID TECHNICAL SPECIFICATION (NGTS) 2.10.09 SITE DRAINAGE (ISSUE 1).
   - 3.2. NATIONAL GRID TECHNICAL SPECIFICATION (NGTS) 2.10.01 OIL CONTAINMENT (ISSUE 2)
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
5. ALL WORK SHALL BE CARRIED OUT WITH THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES AND REGULATORS.
6. ALL PIPES SHALL BE LAID WITH SOFFITS LEVEL UNLESS NOTED OTHERWISE.

KEY:

- PROPOSED SURFACE WATER PIPE
- PROPOSED SURFACE WATER RISING MAIN
- PROPOSED FILTER DRAIN
- PROPOSED FOUL DRAINAGE PIPE
- PROPOSED FRENCH DRAIN (GRANULAR MATERIAL)
- PROPOSED RAINWATER PIPE CONNECTION
- PROPOSED CROSS CARRIAGEWAY PIPE
- PROPOSED GULLY AND CONNECTION
- PROPOSED SURFACE WATER CHAMBER/INSPECTION CHAMBER
- PROPOSED HEADWALL
- PROPOSED FOUL WATER CHAMBER
- PROPOSED CESSPOOL TANK
- EXISTING HEADWALL INLET / OUTLET
- EXISTING WATERCOURSE
- PROPOSED WATERCOURSE DIVERSION
- PROPOSED DETENTION BASIN
- PROPOSED 3M WIDE MAINTENANCE AREA TO DETENTION BASIN
- PROPOSED FLOOD DEFENCE WALL
- PROPOSED IMPERMEABLE ROAD AREA
- PROPOSED CONCRETE SLAB FOOTPATH AREA
- PROPOSED GRANULAR STONE PLATFORM
- PROPOSED CABLE TROUGH
- SITE BOUNDARY
- PROPOSED EARTHWORKS CUT SECTION
- PROPOSED EARTHWORKS FILL SECTION

Rev	Description	Cre'd	Chk'd / App'd	Date
P03	S3 - FOR REVIEW AND COMMENT	IL	CE/RC	21.08.25
P02	S3 - FOR REVIEW AND COMMENT	KA	CE/JD	17.06.25
P01	S3 - FOR REVIEW AND COMMENT	KA	CE/JD	30.05.25

nationalgrid

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

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

Scheme Name: MARGAM CONNECTION

Document Title:

MARGAM
DRAINAGE LAYOUT
SHEET 01 OF 01

Created by:	Date:	Checked by:	Date:	Approved by:	Date:
KA	30.05.25	CE	30.05.25	JD	30.05.25
Development Eng:	Document Type:	Scale:	Format:	Sheet(s):	Rev:
	DWG	1:500	A1	01 OF 01	P03

National Grid Document Number: 18_LOR_0206

Document Number: MARPT-BHK-01-ZZ-DG-C-181009

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