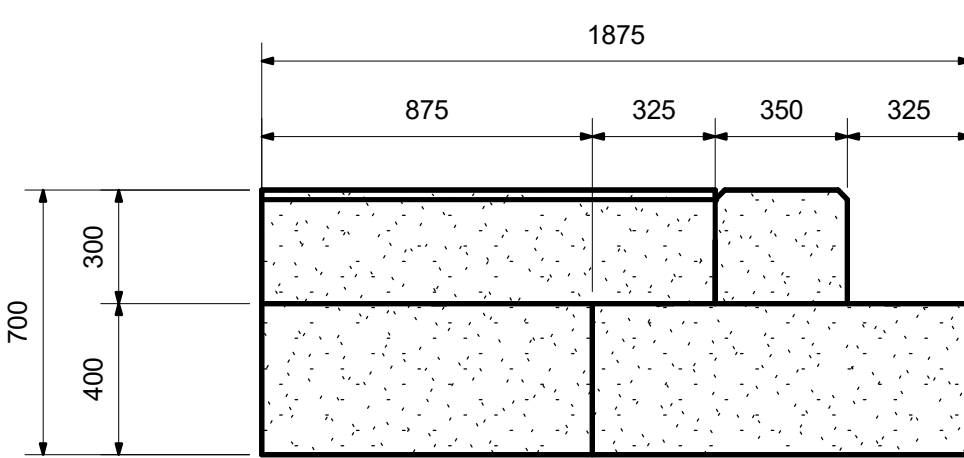
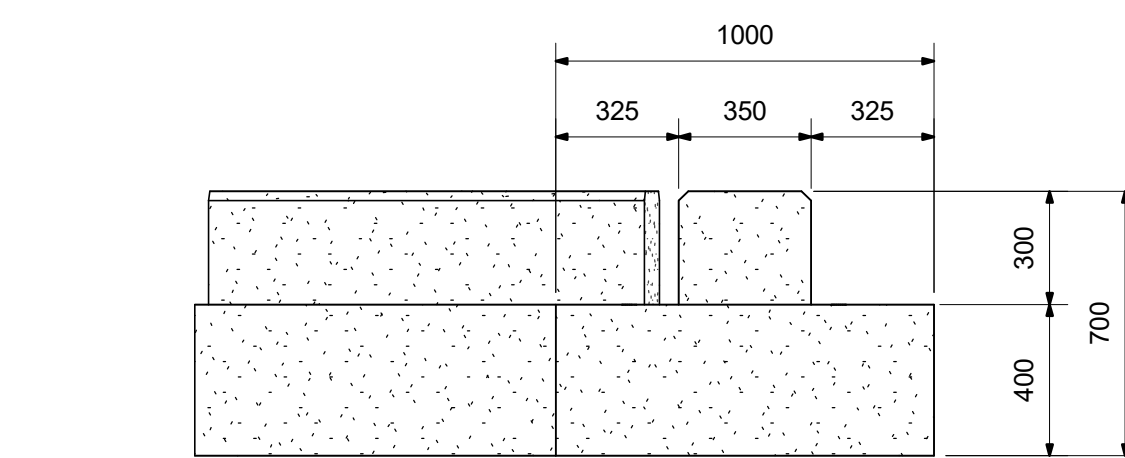


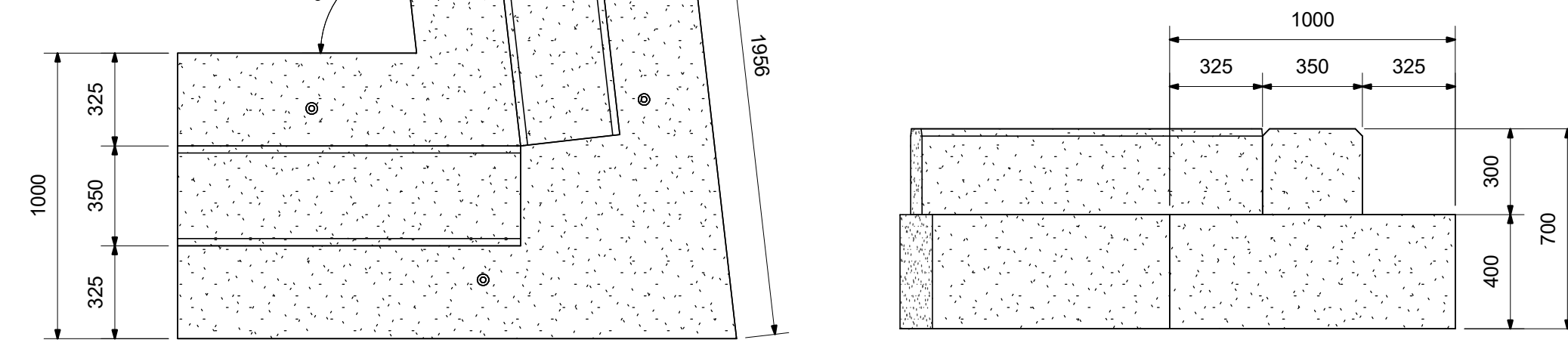
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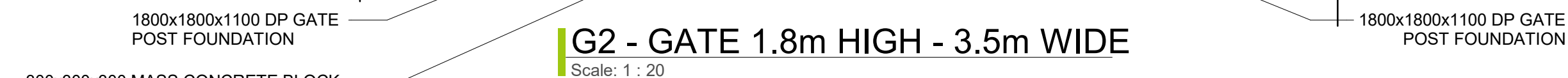
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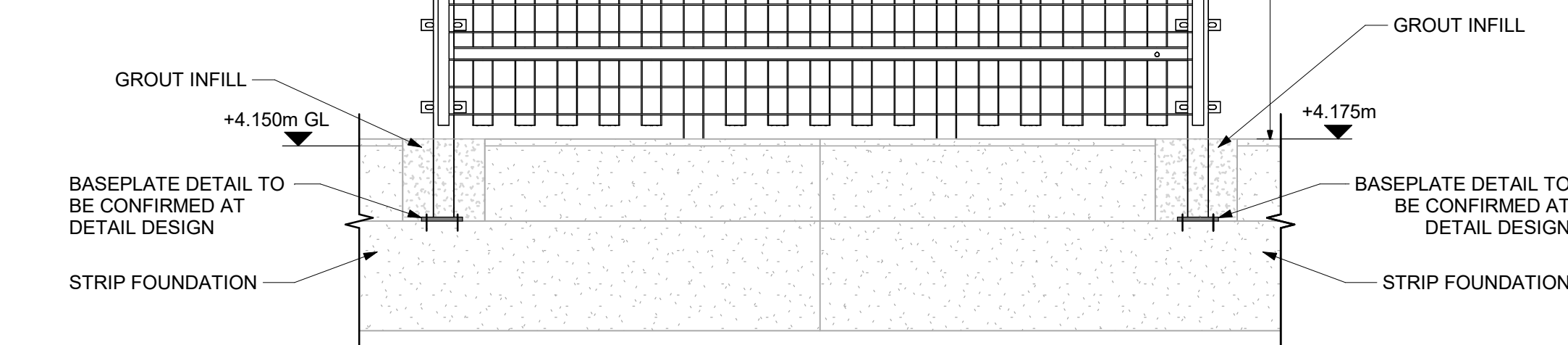
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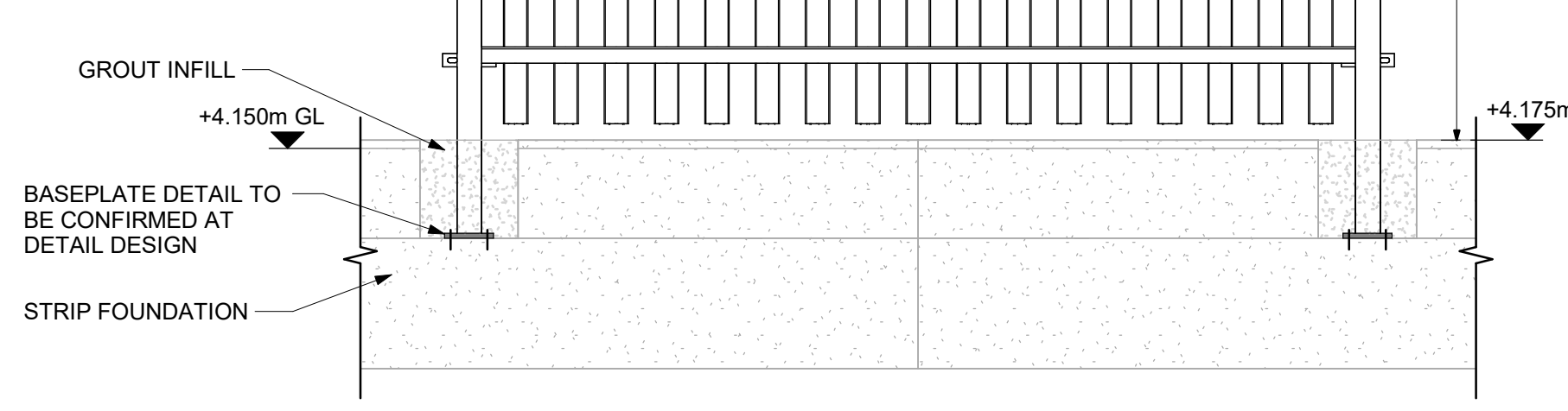
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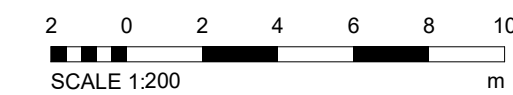
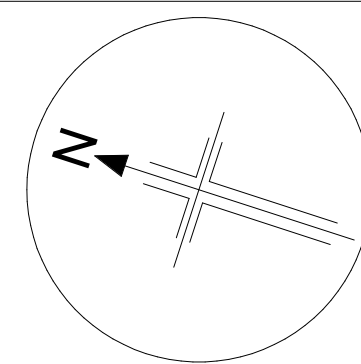
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Scale: 1 : 20



Scale: 1 : 20



## HEALTH & SAFETY

SIGNIFICANT RISKS ASSOCIATED WITH THIS DRAWING ARE IDENTIFIED BELOW AND, WHERE APPLICABLE, AT SPECIFIC LOCATIONS ON THE DRAWING. REFER TO HAZARD REGISTER 09\_LOR\_0005 / 30004595-BHK-XX-XX-RE-HS-0012 FOR FULL DETAILS

• DRAWING PRELIMINARY ONLY. DO NOT CONSTRUCT FROM THIS DRAWING.

GENERAL NOTES:

1. DO NOT SCALE THIS DRAWING.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. STRUCTURAL LEVELS IN METRES UNLESS NOTED OTHERWISE AND RELATIVE TO ORDNANCE DATUM.
3. ALL DIMENSIONS MUST BE VERIFIED ON SITE. CONTRACTOR TO NOTIFY ENGINEER OF DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS, SPECIFICATIONS AND OTHER RELEVANT DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, ERECTION AND REMOVAL OF ALL TEMPORARY WORKS ASSOCIATED WITH SAFE ERECTION.
5. SETTING OUT IN ACCORDANCE WITH BS 5964-1 AND BS 5506.
6. BUILDING CONSTRUCTION TOLERANCES IN ACCORDANCE WITH BS EN 13670 CLASS 1

FENCING NOTES:

1. ALL FENCING 2.4m HIGH SLIPALISADE (GALV) TO THE REQUIREMENTS OF:
  - NQTS 2.10.02 ISSUE 2 PERMETER SECURITY
  - TS 3.10.02 ISSUE 2 MATERIALS
  - BS 1772-12 SLIPALISADE FENCES
2. PERMETER FENCING AND GATES CATEGORY 2 - STANDARD (INCORPORATING 3.4m HIGH ELECTRIC PULSE FENCE). INTERNAL FENCING AND GATES CATEGORY 3 - REDUCED
3. FABRICATION DRAWINGS BY FENCING SUBCONTRACTOR, TO BE REVIEWED BY BAKERKIRKS PRIOR TO CONSTRUCTION.
4. FENCE FOUNDATION DESIGN BASED ON MAXIMUM STRAIN FORCE OF 18kg PER WIRE.
5. SUITABLE SAFETY SIGNAGE REQUIRED IN ACCORDANCE WITH TS 2.10.02 CLAUSE 4.11

CONCRETE NOTES

1. ALL CONCRETE WORKS IN ACCORDANCE WITH BS EN 1992-1-1:2004 WITH UK NATIONAL ANNEX, TS 2.10.03 & TS 3.10.04.
2. ALL STRUCTURAL CONCRETE DESIGNED IN ACCORDANCE WITH BS EN 1992-1-1:2004 AND THE RELEVANT CLAUSES OF BS 8500-1 & 2.
3. CONCRETE GRADE TO BE UNIFIED; CONTRACTOR TO PROVIDE MIX DESIGNS TO ENGINEER FOR REVIEW.
4. CONCRETE MIX EMBEDDED CARBON TO COMPLY WITH LIMITS AS PER NATIONAL GRID ENGINEERING BULLETIN "INTRODUCTION OF EMBEDDED CARBON LIMITS FOR CONCRETE".
5. ALL CONCRETE FINISHES IN ACCORDANCE WITH BS EN 13637.
  - BELOW GROUND CONCRETE SURFACES TO RECEIVE "BASIC" FINISH.
  - ABOVE GROUND SLAB SURFACES TO RECEIVE "PLAIN FORMED FINISH WITH 25mm RAKE".
  - TRANSFER TO ALL AREAS UNLESS NOTED OTHERWISE.
  - TOP OF ANTI BURROW CLIP TO HAVE NOMINAL PLANS AWAY FROM POSTS.

MIX A - STRIP FOOTINGS  
DESIGNED MIX IN ACCORDANCE WITH BS 8500-2  
DESIGN CHEMICAL CLASS: DC-1  
STRENGTH CLASS: C28/35  
MAX W/C RATIO: 0.55  
PERMITTED CEMENT COMBINATIONS: A3, A4, D3  
MIN CEMENT CONTENT: 320 kg/m<sup>3</sup>  
MAX EMBEDDED CARBON: 205 kg CO<sub>2</sub>/m<sup>3</sup>  
CONSISTENCY: S3  
AGGREGATE: 20mm

## REINFORCEMENT NOTES:

- ALL REINFORCEMENT TO BE IN ACCORDANCE WITH:
  - BS8449-2005 - SPECIFICATION FOR CARBON STEEL BARS FOR REINFORCEMENT OF CONCRETE
  - BS8449-2005 - SPECIFICATION FOR COLD ROLLED STEEL WIRE FOR THE REINFORCEMENT OF CONCRETE
  - BS8449-2005 - SPECIFICATION FOR STEEL FABRIC FOR THE REINFORCEMENT OF CONCRETE
  - BS16000 - CONCRETING - COMPLEMENTARY STANDARD TO BS EN 206 - BS8666-2005, SPECIFICATION FOR PRECAST CONCRETE
  - BS8666-2005 - CONCRETING, BENDING AND CUTTING OF STEEL REINFORCEMENT FOR CONCRETE.
- MESH REINFORCEMENT TO BE PROVIDED WITH FLYING ENDS TO PROVIDE MINIMUM LAPPS:
  - 50 x BAR DIAMETER (GOOD BOND CONDITIONS)
  - 80 x BAR DIAMETER (POOR BOND CONDITIONS)
- NOMINAL COVER TO REINFORCEMENT TO BE 50mm+ TO ANY EDGE WITH A FIXING TOLERANCE OF +/- 5mm
- ALL MESH REINFORCEMENT IN ACCORDANCE WITH BS 4449 & BS 4483. GRADE B500A WITH CHARACTERISTIC STRENGTH Y = 500 N/mm<sup>2</sup>
- CONTRACTOR TO PROVIDE SPACERS & CHAIRS IN ACCORDANCE WITH BS 7973-1. CONTINUOUS CONCRETE BLOCK SPACERS MAY NOT BE USED. SPACERS SHOULD NOT BE USED WHERE THEY ARE IN CONTACT WITH THE REINFORCING CONCRETE.

EARTHWORKS:

1. ALL BACKFILL/IN-PAVEMENT STRUCTURAL FILL SHALL BE WELL COMPACTED IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAYS WORKS SERIES 600 - EARTHWORKS AND NGTS 3.10.03.
2. EXISTING FORMATION TO BE WELL COMPACTED BEFORE LAYING BUNDING.
3. ANY BACKFILL WITHIN 500mm OF FOUNDATION MUST BE CLASSED AS NO MORE ONEROUS THAN DS-1 / AC-1.
4. IDENTIFIED SOFT SPOTS TO BE REPLACED WITH WELL COMPACTED BACKFILL.

REFERENCE DRAWINGS:

MARGAM FENCING OVERALL GA SHEET 01 OF 02 (MARPT-BHK-01  
XX-DG-S-161301 / 16\_LOR\_0766)

LAING O'ROURKE

PRELIMINARY

P01	S3 FOR REVIEW & COMMENT	JN	OT / JD	13/06/2025
Rev	Description	Cr'd	Ch'd / App'd	Date

**nationalgrid**

Master Scheme No: 101677	Sub-Scheme No:	Site: MARGAM
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MARGAM CONNECTION

Document Title:

MARGAM FENCING FOUNDATION  
DETAILS SHEET 01 OF 02

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