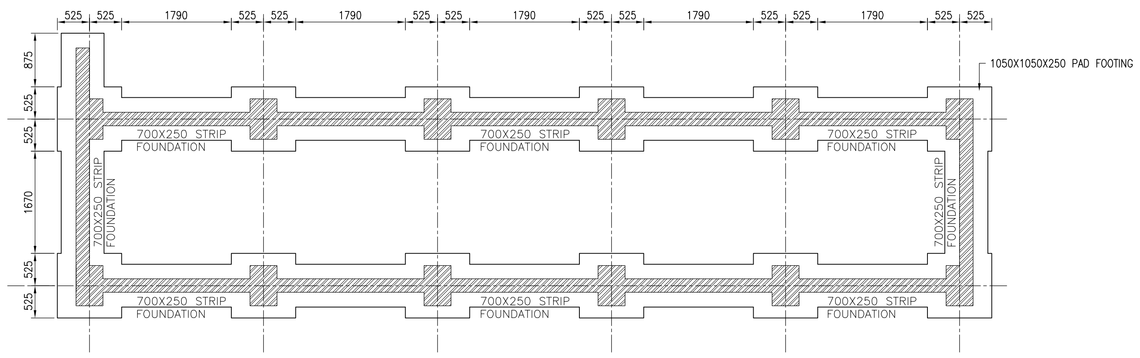
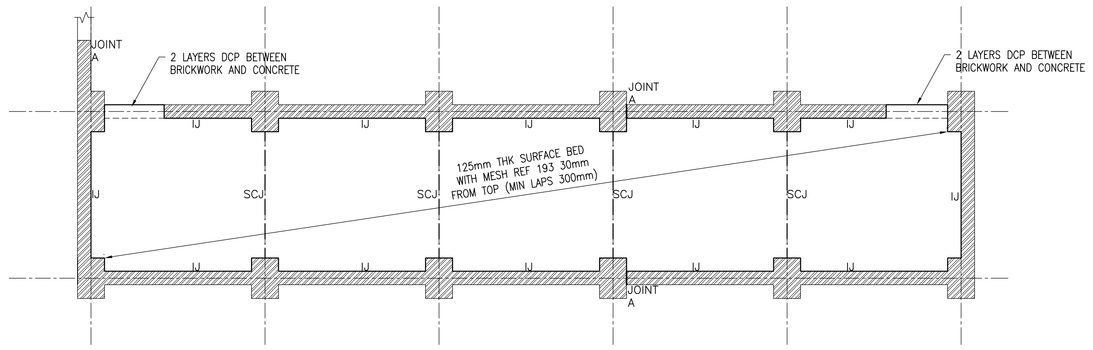
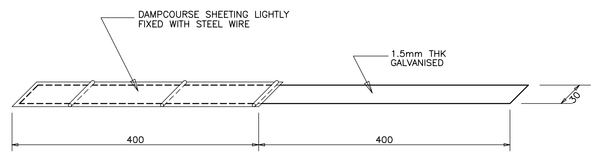


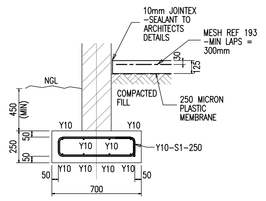

FOUNDATION LAYOUT
SCALE 1:50



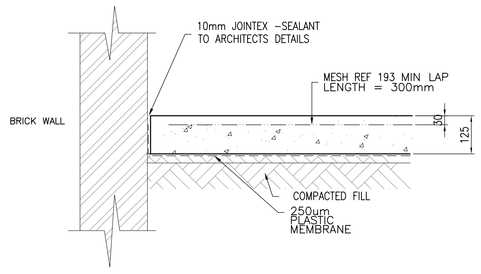

SURFACE BED LAYOUT
SCALE 1:50



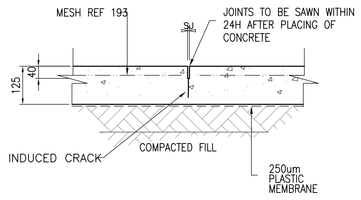

DETAIL OF ORDINARY HOOP IRON WALL TIE
SCALE 1:5



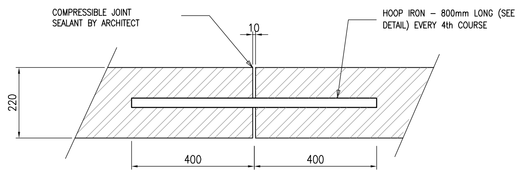

TYPICAL SECTION THROUGH FOUNDATIONS INDICATING REINFORCEMENT
SCALE 1:20




TYPICAL ISOLATION JOINT DETAIL(I.J)
SCALE 1:10




TYPICAL SAW–CUT DETAIL(S.J)
SCALE 1:10




TYPICAL PLAN DETAIL OF JOINT 220 WALLS (JOINT TYPE 'A')
SCALE 1:10

## GENERAL NOTES:

### EXCAVATIONS AND FILL

1.1 PREPARATION OF THE BULK EARTHWORKS ARE TO BE AS STIPULATED IN THE GEOTECHNICAL REPORT.
1.2 ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED BY A COMPETENT PERSON BEFORE CASTING OF CONCRETE
1.3 ALL FILL BELOW SURFACE BEDS IS TO BE COMPACTED IN LAYERS OF 150mm TO 93% MOD AASHTO DENSITY AT -1 TO +2% OF ITS OPTIMUM MOISTURE CONTENT
1.4 COMPACTION TESTS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS FOR ALL FILL AREAS.
1.5 ALL FOUNATIONS ARE TO BE FOUNDED LOCALLY ON ENGINEERING FILL WITH A MAXIMUM ALLOWABLE BEARING PRESSURE RESTRICTED TO 75kPa
1.6 THE BOTTOM OF ALL FOUNDATION EXCAVATIONS ARE TO BE CLEARED OF ALL LOOSE MATERIAL PRIOR TO CASTING OF CONCRETE.

### FOOTINGS

2.1 ALL 220mm WALLS SHALL BE FOUNDED ON STRIP FOOTINGS OF CLASS 25/19mm MPa CONCRETE REINFORCED WITH Y10 BARS AS PER DETAIL.
2.2 ALL 110mm WALLS SHALL BE FOUNDED ON 600WD X 250THK STRIP FOOTINGS AS PER THE DETAIL (UNO) - UNREINFORCED
2.3 ALL WALLS ARE PLACED CENTRAL TO FOUNDATIONS
2.4 ALL WALLS ARE TO BE POSITIONED AS PER THE ARCHITECTS LAYOUTS

### BRICKWORK SPECIFICATIONS

3.1 ALL BRICKWORK IS TO BE LOADBEARING AND OF SOLID HARD BURNT CLAY BRICKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 14MPa LAID ON CLASS II MORTAR WITH A 28 DAY COMPRESSIVE STRENGTH OF 7.0MPa AS SPECIFIED IN SANS 10164 PART 1 (CODE OF PRACTICE FOR MASONRY). TESTS WILL BE DONE ACCORDINGLY AND SUBMITTED FOR APPROVAL.
3.2 SAND FOR MORTAR SHALL COMPLY WITH SANS 1091 AND BE WELL GRADED.
3.3 CEMENT FOR MORTAR SHALL COMPLY WITH SANS 50197-1 OR SANS 50413-1 THE ADDITION OF BUILDING LIME WILL COMPLY WITH SANS 523:2002 AND SHALL BE USED IN ALL MORTAR WORK.
3.4 THE PREPARATION AND HANDLING OF MORTAR SHALL COMPLY WITH SANS 2001 CM1 THE INGREDIENTS FOR MORTAR SHALL BE MEASURED IN PROPER GUAGE BOXES OR OTHER CALIBRATED MEASURES AND BE MIXED ON A BOARDED PLATFORM. ALTERNATIVELY, MIXING MAY BE DONE BY AN APPROVED MECHANICAL BATCH TYPE MIXER.
3.5 MASONRY UNITS SHALL BE WETTED PRIOR TO LAYING IN A WALL. UNITS SHALL BE LAID ON A FULL BEDDING OF MORTAR AND VERTICAL JOINTS BETWEEN UNITS SHALL BE COMPLETELY FILLED WITH MORTAR (UNO).
3.6 UNITS SHALL BE LAID IN STRETCHER BOND I.E. WITH STAGGERED VERTICAL JOINTS (UNO).

### WALL REINFORCEMENT

4.1 BRICKFORCE:
MINIMUM DIAMETER OF BRICKFORCE WIRES = 2.8mm
YIELD STRENGTH = 485 MPa LAP LENGTHS = 400mm MIN.
4.2 BRICKFORCE SHALL BE PLACED IN ALL COURSES ABOVE THE WALL FOOTING TO THE SURFACE BED LEVEL (MIN 7 COURSES) AND THEREAFTER IN EVERY FOURTH COURSE UP TO DOOR OPENING HEIGHT. 4 LAYERS OF BRICKFORCE OVER ALL DOORS AND WINDOWS.
4.3 BRICKFORCE SHALL BE BUILT INTO THE WALLS WITH A MORTAR COVER OF AT LEAST 20mm.

### SURFACE BEDS

5.1 SURFACE BEDS ARE TO BE CONSTRUCTED OUT OF CONCRETE CLASS 30MPa/19mm
5.2 SURFACE BEDS ARE TO BE CAST ON COMPACTED FILL AND A 250 MICRON THICK PLASTIC MEMBRANE TO ASSIST WITH THE CURING AND CREEP OF THE CONCRETE
5.3 THE SURFACE BED IS TO BE CAST INDEPENDANTLY FROM THE BRICKWORK. THE SURFACE BED IS NOT TO REST ON THE BRICKWORK UNO.
5.4 ISOLATION JOINTS ARE TO BE PROVIDED AROUND THE PERIMETER OF THE S/BED BETWEEN THE S/BED AND THE BRICKFORCE. THIS IS DONE BY TURNING UP THE PLASTIC MEMBRANE AGAINST THE BWK BEFORE CASTING. THIS ACTS AS A BOND BREAKER.
5.5 LARGE PANELS OF THE SURFACE BED ARE TO BE PROVIDED WITH SAW JOINTS AS PER THE DETAIL. PANEL SIZES SHOULD NOT EXCEED 3.5M X 3.5M AND SHOULD CORRESPOND WITH THE ARCHITECTS TILING LAYOUT.
5.6 THE SURFACE FINISH SHOULD SUIT THE FINAL FLOOR COVERING AS SPECIFIED BY THE ARCHITECT.

Issued For Tender

Client
KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

Implementing Agent
DBSA
DEVELOPMENT BANK OF SOUTHERN AFRICA
Building Africa's Prosperity

Notes:
Refer to General Notes on Sheet Number S-000

| No | Amendment | Date | App. |
|---|---|---|---|
| OB | Issued for TENDER | 22/10/21 | ET |

Project Manager
MPAMOT (Pty) Ltd
2nd Floor, South Wing, 147 Bram Fischer Drive
PO Box 3923, Randburg, 2125, South Africa
t +27 11 781 9710 f +27 11 781 9711
www.mpamot.co.za
Reg No: 1997/009813/07
CESA

Discipline:

Project
Maritime School Of Excellence

Drawing Title
STUDENT RESIDENCE
DRYING YARD
LAYOUTS, SECTIONS AND DETAILS

| | | |
|---|---|---|
| Division Head: Approver | Designed by: | P Jumman |
| | Drawn by: | P Jumman |
| Pr Eng No: | Checked by: | E Tromp |
| Date: 04/15/21 | | |
| Scale: As Indicated | Drawing No: 2025- S-RES-350 | Rev: OB |

© MPAMOT PTY LTD
This document is issued for the party which commissioned it and for the specific purpose connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or ommission which is due to an error or ommission in data supplied to us by the other parties.
This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and the party which commissioned it.

C:\Users\Jum65742\Mott MacDonald\Maritime School of Excellence - Team Documents\Structures\Drawings\Revit Models\Block B\BLOCK B.rvt