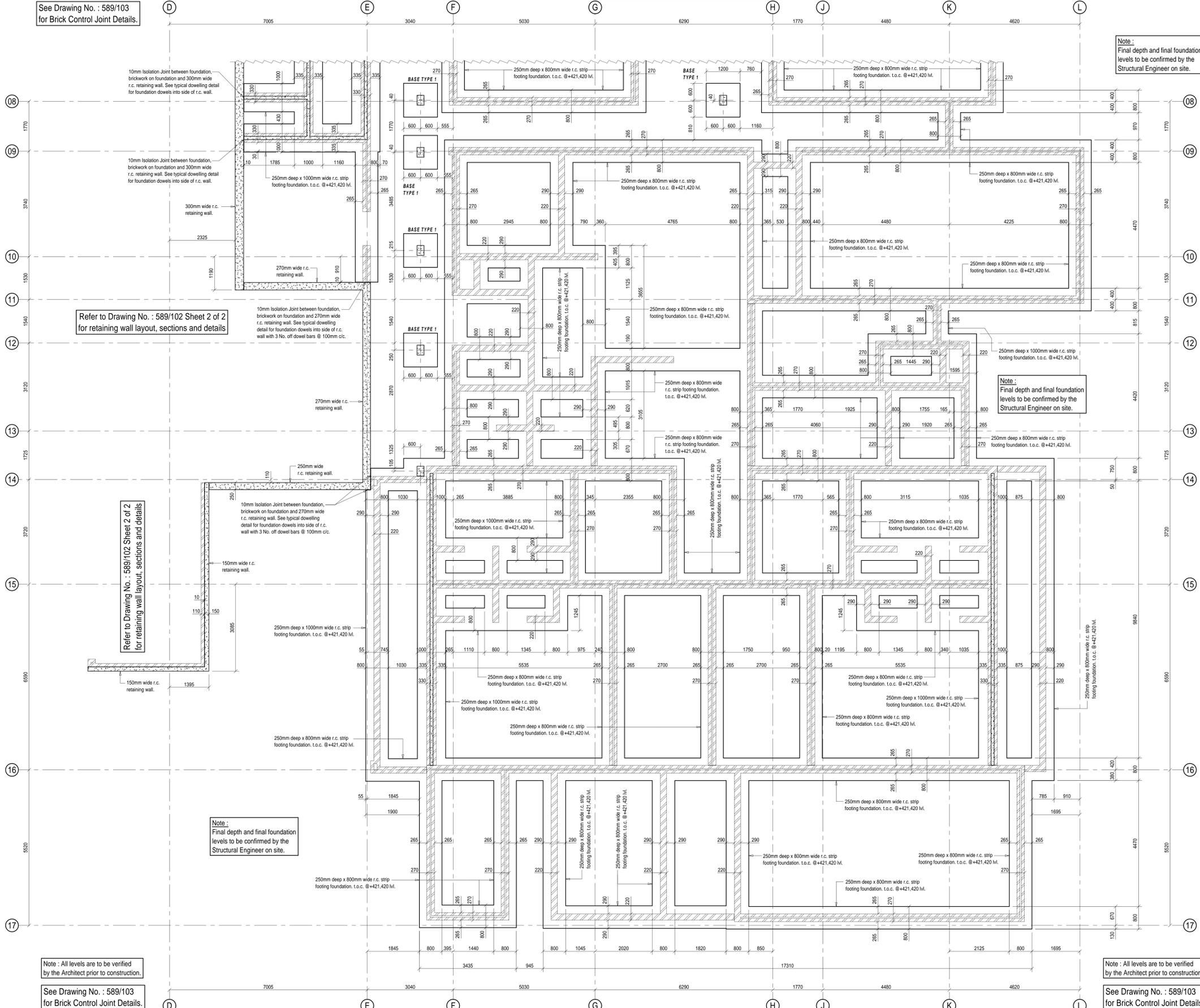


See Drawing No. : 589/103 for Brick Control Joint Details.

Note : Final depth and final foundation levels to be confirmed by the Structural Engineer on site.



Refer to Drawing No. : 589/102 Sheet 2 of 2 for retaining wall layout, sections and details

Refer to Drawing No. : 589/102 Sheet 2 of 2 for retaining wall layout, sections and details

Note : Final depth and final foundation levels to be confirmed by the Structural Engineer on site.

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Foundation Notes :

- 1. As noted in the Geotechnical Report, soft excavation is anticipated, up to depths of 1.5m to 2.0m.
2. Structures with higher bearing pressures should be placed onto 'dense' to 'very dense' material at average depth of 1.6m below existing ground levels.
3. As noted in the Geotechnical Report, depending on the proposed final depth of foundations, excavations should be excavated to the proposed final depth and backfilled with the engineered material of at least G6 quality material compacted in layers not exceeding 300mm thick to 92% MOD AASHTO Density.
4. 50mm thick blinding layer to all foundation excavations.
5. A "thicker" blinding layer (min. 50mm to max. 150mm) will be required to level the base of the foundation trenches prior to rebar installation.
6. All foundation excavations are to be inspected and approved by the Structural Engineer prior to installing the reinforcement for the foundations.

25mm x 25mm chamfers to all exposed reinforced concrete elements.

Note : R.C. Core Walls : All r.c. core walls are to be constructed in separate lifts of maximum 850mm high (10 brick courses). The Contractor must ensure that each lift (brickwork and concrete core) has cured and is stable to carry the next lift above.

A. Classification of Concrete Finish to Top Surfaces of R.C. Slabs :

The following 'finish' is to be applied to all the top surfaces of the concrete : CF1 - The following 'finish' is to be applied to all suspended r.c. slabs and r.c. surface bed slabs : The top surfaces of the slabs are to be powerfloat (with a woodfloat finish) to Degree of Accuracy II as per SABS 1200 G specification.

Note : All levels are to be verified by the Architect prior to construction.

See Drawing No. : 589/103 for Brick Control Joint Details.

Note : All levels are to be verified by the Architect prior to construction.

See Drawing No. : 589/103 for Brick Control Joint Details.

PLAN : MAIN BUILDING GROUND LEVEL : FOUNDATION LAYOUT

See Drawing No. : 589/101 for Details.

This Drawing is to be read in conjunction with the latest Architectural Drawings and any discrepancies to be reported to the Architect and/or Structural Engineer.

FOR TENDER

- GENERAL NOTES :
1. All levels and dimensions to be checked on site.
2. This drawing is to be read in conjunction with the Architectural drawings.
3. All concrete work is to comply with SABS 1200G.
4. Concrete Class :
a) Strip Footings & Bases = 25 MPa
b) Columns & Staircases = 30 MPa
c) Slabs & Beams = 25 MPa
d) Retaining Walls = 20 MPa
e) Surface Bed Slabs = 25 MPa
f) Blinding = 10 MPa
5. Cover to reinforcement :
a) Strip Footings & Bases = 50mm
b) Columns (Below Ground) = 50mm
c) Columns (Above Ground) = 40mm
d) Slabs, Beams & Staircases = 30mm
e) Slabs (On the Ground) - Bottom Mat = 50mm
f) Slabs (On the Ground) - Top Mat = 30mm
g) Retaining Walls (Earth Face) = 50mm
h) Retaining Walls (Front Face) = 40mm
6. All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
7. All reinforcing fixing is to be inspected by the Structural Engineer prior to casting of concrete.
8. Six concrete cubes to be taken per pour. Three cubes to be tested at seven days, the remainder at twenty eight days. The results are to be forwarded to the Engineer for review and approval.
9. The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
10. All structural concrete is to be cured for a minimum of five days.
11. All brickwork shown 'hatched' are load bearing. All load bearing brickwork is to be 14MPa NFX bricks in Class 2 mortar. The top of all load bearing brickwork (at all concrete interfaces) is to receive 2 layers of 3 ply method placed on a smooth rendered surface.
12. All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
13. All concrete plaster and brickwork plaster interfaces to receive V-joints.
14. The Engineer requires 24 hours notice for all inspections.

Brickwork Notes :

- 1. All solid brick walls are 220mm wide or 110mm wide with brickforce built in every course below surface bed level, above all window and door openings, and every 3rd course above surface bed level with 150mm wide x 2.8mm thk. NHRBC Galvanized Brickforce for 220mm wide walls and 75mm wide x 2.8mm thk. NHRBC Galvanized Brickforce for 110mm wide walls.
2. All cavity brick walls are 270mm wide with 110mm wide inner & outer skin brickwork with 50mm wide central cavity with brickforce built in every course below surface bed level, above all window and door openings, and every 3rd course above surface bed level with 220mm wide x 2.8mm thk. NHRBC Galvanized Brickforce.
3. All brickwork to be min. 14MPa NFX bricks in Class 2 mortar.
4. All 110mm wide walls are to be constructed directly onto the 170mm thk. surface bed slabs.
5. All load bearing brickwork and concrete interfaces to receive a Slip Joint of which consists of the following : 2 layers of 3 ply method on a smooth rendered surface on top of the load bearing brickwork.

A. Classification of Concrete Finish to Top Surfaces of R.C. Slabs :

The following 'finish' is to be applied to all the top surfaces of the concrete : CF1 - The following 'finish' is to be applied to all suspended r.c. slabs and r.c. surface bed slabs : The top surfaces of the slabs are to be powerfloat (with a woodfloat finish) to Degree of Accuracy II as per SABS 1200 G specification.

Penetration Specification : Waterproofing Specification for all R.C. Retaining Walls (and all R.C. Elements where one face of the concrete element is in direct contact with soil and the other face of the concrete element is exposed) :

- 1. All R.C. Retaining Walls (30 MPa) are to be waterproofed with Penetron Admix with Tracer, 20 year warranty, dosed at 0.8% by weight of cementitious content, up to manufacturer's specifications and details.
2. All formwork ferrule tubes are to be removed by drilling a slightly larger hole than the ferrule hole. Then prime the ferrule hole with a Penetron Slurry Coat. Repair the ferrule tube hole by completely filling the hole with Penetron Mortar / Penetron Slurry combination, all to manufacturer's specifications and details.
3. Penetron Penetaply S/SYS Type 'A' is to be installed (with Penetaply Primer), along all R.C. Wall and R.C. Footing interfaces, along all construction joints (vertically and horizontally) and is to be installed by an approved applicator and all installed in accordance with the manufacturer's specifications and details.

Table with 4 columns: REV, DESCRIPTION, BY, DATE. Rows include T1 FOR TENDER, P2 AS PER REVISION CLOUD, P1 PRELIMINARY FOR PRICING.

Professional Person: M. NAR. P. TechEng. ECA Registration No.: 200670111

CLIENT : IMPLEMENTING AGENTS :



PROJECT MANAGERS : LDM Solutions for the Built Environment

ARCHITECTS : SAKHISIZWE ARCHITECTS

PROJECT : 19/1/9/1/59 TB (22) PROPOSED MSINSINI POLICE STATION IN KZN

DETAILS : POLICE STATION BUILDING : GROUND LEVEL FOUNDATION LAYOUT & DETAILS

DISCIPLINE : STRUCTURAL ENGINEERING

MAP AFRICA CONSULTING logo and contact information.

Table with 4 columns: DESIGNED, DRAWN, APPROVED, DRAWING NO. Values include S.N., M.N., PL, 589 / 100 (2 OF 2).