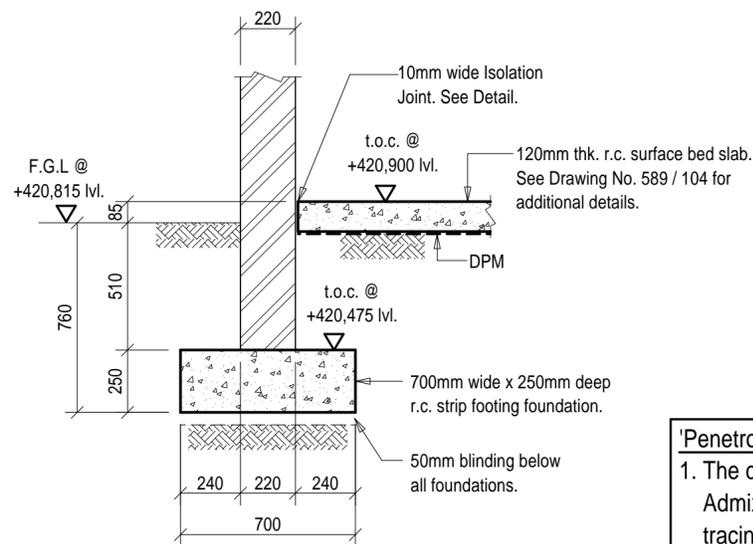


**POLICE STATION:
FOUNDATION LAYOUT**

All foundations are
700mm Wide x 250mm Deep
unless otherwise stated.

25mm x 25mm chamfers to all
exposed concrete edges / surfaces.



**TYPICAL SECTION THROUGH
FOUNDATIONS**

'Penetron Admix' Specification :

1. The concrete strip footing is to be cast with "Penetron Admix Crystalline waterproofing additive with non-toxic tracing agent, dosed to minimum 0,8% by weight of cementitious content, with 20-year warranty to manufacturer's specification" - or equally approved.
2. The concrete is to be cast, protected and cured according to SANS 10100-2.

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 = 30 MPa
 - e) Surface Bed Slabs = 25 MPa
 - f) Blinding = 10 MPa
5. Cover to reinforcement :-
 - a) Strip Footing & 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 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 malthoid 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.

**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 powerfloated (with a woodfloat finish) to Degree of Accuracy II as per SABS 1200 G specification.

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.
3. As noted in the Geotechnical Report, a maximum allowable bearing capacity of 150kN/m² to 250kN/m² has been considered applicable.
5. 50mm thick blinding layer to all foundation excavations.
6. A "thicker" blinding layer (min. 50mm to max. 150mm) will be required to level the base of the foundation trenches prior to rebar installation.
7. All foundation excavations are to be inspected and approved by the Structural Engineer prior to installing the reinforcement for the foundations.

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. NHBRC Galvanized Brickforce for 220mm wide walls and 75mm wide x 2,8mm thk.
2. All brickwork to be min. 14MPa NFX bricks in Class 2 mortar.
3. All load bearing brickwork and concrete interfaces to receive a 'Slip Joint' of which consists of the following : 2 layers of 3 ply malthoid on a smooth rendered surface on top of the load bearing brickwork.

FOR TENDER

REV.	DESCRIPTION	BY	DATE
T1	ISSUED FOR TENDER	M.X.	11/04/2025

Professional Person : M. NAIR, PrTechEng. ECSA Registration No.: 200670211

CLIENT :
IMPLEMENTING AGENTS :



PROJECT MANAGERS :



ARCHITECTS :



PROJECT :

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

DETAILS :

**POLICE STATION
BIN AREA
FOUNDATION LAYOUT**

DISCIPLINE :

STRUCTURAL ENGINEERING



SUITE GR01A, GROUND FLOOR, BUSINESS PARTNERS CENTER
23 JAN HOFMEYR RD, WESTVILLE, DURBAN, 3630
e-mail : admin@mapafrica.co.za
FAX (031) 3092929 TEL. (031) 3095831

DESIGNED :	M.X.	COPYRIGHT RESERVED	SCALES :
DRAWN :	M.X.		1:50 1:20 1:10
APPROVED :	M.N.	PL	DATE : 25/11/2024

DRAWING No. : **589 / 117**

REV. **T1**