

PLAN  
FOUNDATION LAYOUT  
1:25

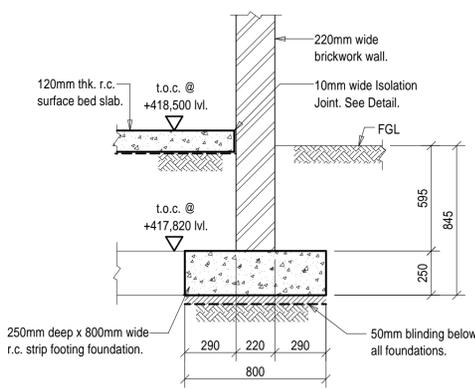
All gridlines relative to Living Quarters.

All compacted bulk and engineered fill below all foundations, to civil Engineers details and specifications.

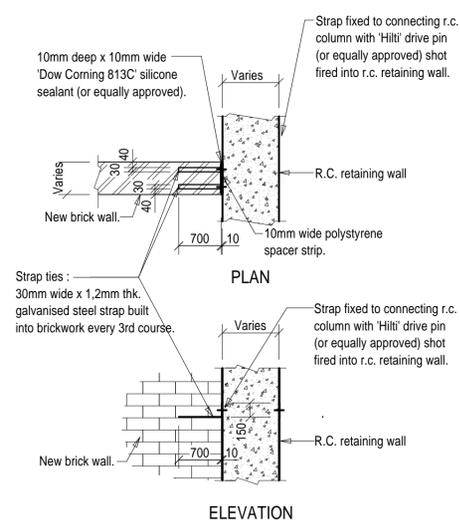
25mm x 25mm chamfers to all exposed reinforced concrete elements.

**'Penetron Admix' Specification :**  
 1. The concrete raft slab 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) Raft slab & beams = 30 MPa  
 5. Cover to reinforcement :-  
 a) Ground Beams = 50mm  
 b) Slabs (On the Ground) - Bottom Mat = 50mm  
 c) Slabs (On the Ground) - Top Mat = 30mm  
 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 concrete plaster and brickwork plaster interfaces to receive 'V'-joints.  
 12. The Engineer requires 24 hours notice for all inspections.



TYPICAL SECTION  
THROUGH FOUNDATION  
1:20



TYPICAL BRICKWORK STRAPPING DETAIL  
TO R.C. RETAINING WALL  
1:25

**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. NHBRC 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 230mm wide x 2,8mm thk. NHBRC 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 malthoid 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. raft 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.

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.

REV.	DESCRIPTION	BY	DATE
T1	FOR TENDER	M.X.	13/05/2025

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 :  
 METER ROOM:  
 FOUNDATIONS LAYOUT

DISCIPLINE : STRUCTURAL ENGINEERING

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DESIGNED :	M.X.	COPYRIGHT RESERVED	SCALES :
DRAWN :	M.X.		1:25 1:20
APPROVED :	M.N.	PL	DATE : 13/05/2025

FOR TENDER

DRAWING No. : 589 / 130 REV. T1