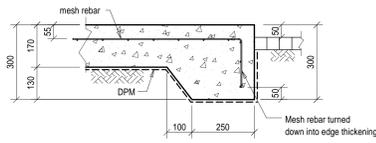
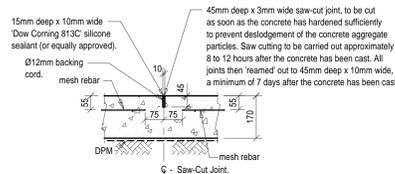


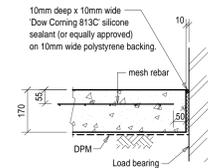
TYPICAL 300mm deep x 270mm wide  
EDGE THICKENING DETAIL



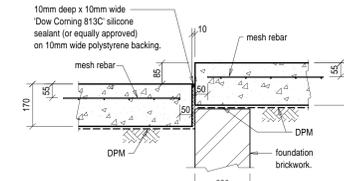
TYPICAL 300mm deep x 250mm wide  
EDGE THICKENING DETAIL



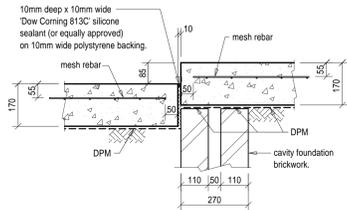
TYPICAL SAW-CUT JOINT DETAIL  
FOR 170mm thk. SURFACE BED SLAB



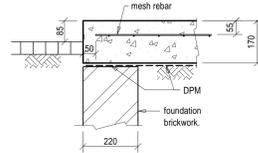
TYPICAL ISOLATION  
JOINT DETAIL (I.J.)  
FOR 170mm thk. SURFACE BED SLAB



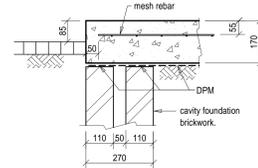
EXTERNAL DOOR THRESHOLD (E.D.T.1)



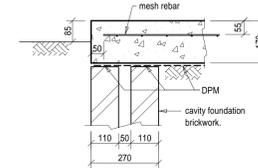
INTERNAL DOOR THRESHOLD (E.D.T. 2)



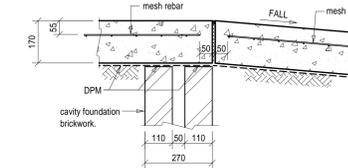
EXTERNAL DOOR THRESHOLD (E.D.T.3)



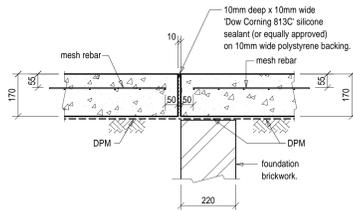
EXTERNAL DOOR THRESHOLD (E.D.T.4)



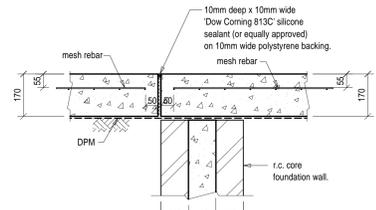
EXTERNAL DOOR THRESHOLD (E.D.T.5)



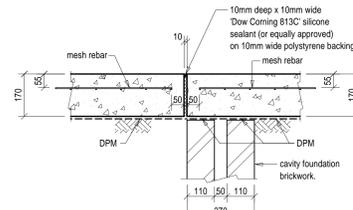
EXTERNAL DOOR THRESHOLD (E.D.T.6)



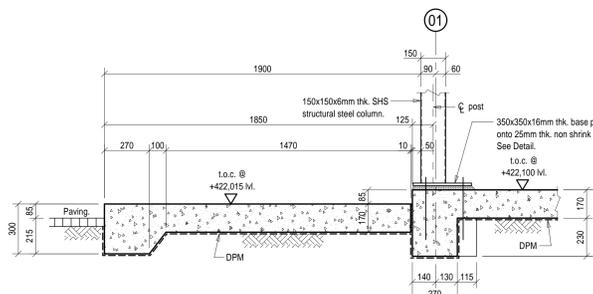
INTERNAL DOOR THRESHOLD (I.D.T. 1)



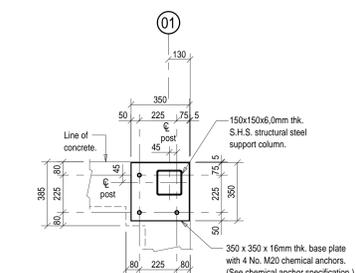
INTERNAL DOOR THRESHOLD (I.D.T. 2)



INTERNAL DOOR THRESHOLD (I.D.T. 3)

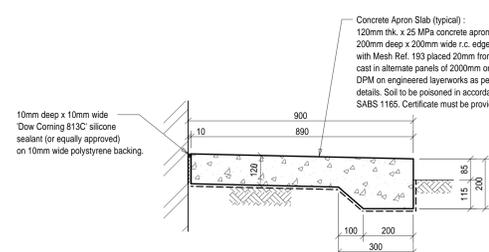


SECTION A - A

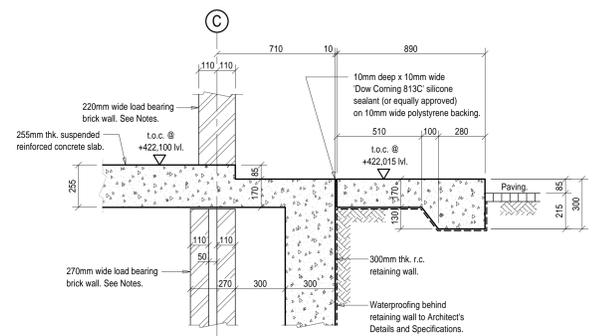


BASE PLATE DETAIL  
(1 No. OFF)

**M20 CHEMICAL ANCHOR SPECIFICATION :**  
Fischer M20 (8.8) galvanised H.D. Anchor Studs (with embedment length = 300mm) with Fischer FIS-V-360 Chemical Mortar or equally approved Chemical Anchors with 'ETA' ( European Technical Approval).



TYPICAL SECTION THROUGH  
CONCRETE APRON



SECTION B - B

**Note :**  
No thickening required in surface bed slab for 170mm thk. slab. All internal 110mm wide walls are to be built directly onto the 170mm thk. surface bed slab.

**170mm thk. Surface Bed Slab :**  
170mm thk. x 25 MPa powerlasted (wood float finish) concrete surface bed slab reinforced with Mesh Ref. 245 (min. 300mm laps) placed at 55mm cover from the top of the slab on 250mm SABS approved DPM on min. 150mm thk. G3 quality soil material compacted to 98% Mod AASHTO on engineered layernetworks as per Civil Engineers layouts. Top mesh will be sitting on R10 stools (75mm high) @ 600mm centres both ways and each leg of the stool will be supported on (2 No. off) 25mm cover blocks. Soil to be positioned in accordance with SABS 1165. Certificate must be provided.

**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.

- All levels and dimensions to be checked on site.
- This drawing is to be read in conjunction with the Architectural drawings.
- All concrete work is to comply with SABS 1209G.
- 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
- 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 (Face Face) = 40mm
- All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
- All reinforcing fixing is to be inspected by the Structural Engineer prior to casting of concrete.
- 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.
- The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
- All structural concrete is to be cured for a minimum of five days.
- All brickwork shown hatched are load bearing. All load bearing brickwork is to be 140Pa NF3 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.
- All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
- All concrete plaster and brickwork plaster interfaces to receive V-joints.
- The Engineer requires 24 hours notice for all inspections.

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**

REV.	DESCRIPTION	BY	DATE
T1	FOR TENDER	S.N.	11/04/2025
P1	PRELIMINARY FOR PRICING	S.N.	18/10/2024

Professional Person: M. NAR. P.TechEng ECSA Registration No.: 200670211



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  
SURFACE BED SLAB DETAIL

DISCIPLINE: STRUCTURAL ENGINEERING

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DESIGNED:	S.N.	COPYRIGHT RESERVED	SCALES:
DRAWN:	S.N.		1:50 1:20 1:10
APPROVED:	M.N.	PL	DATE: 18/10/2024

DRAWING No.: 589 / 103 REV. T1