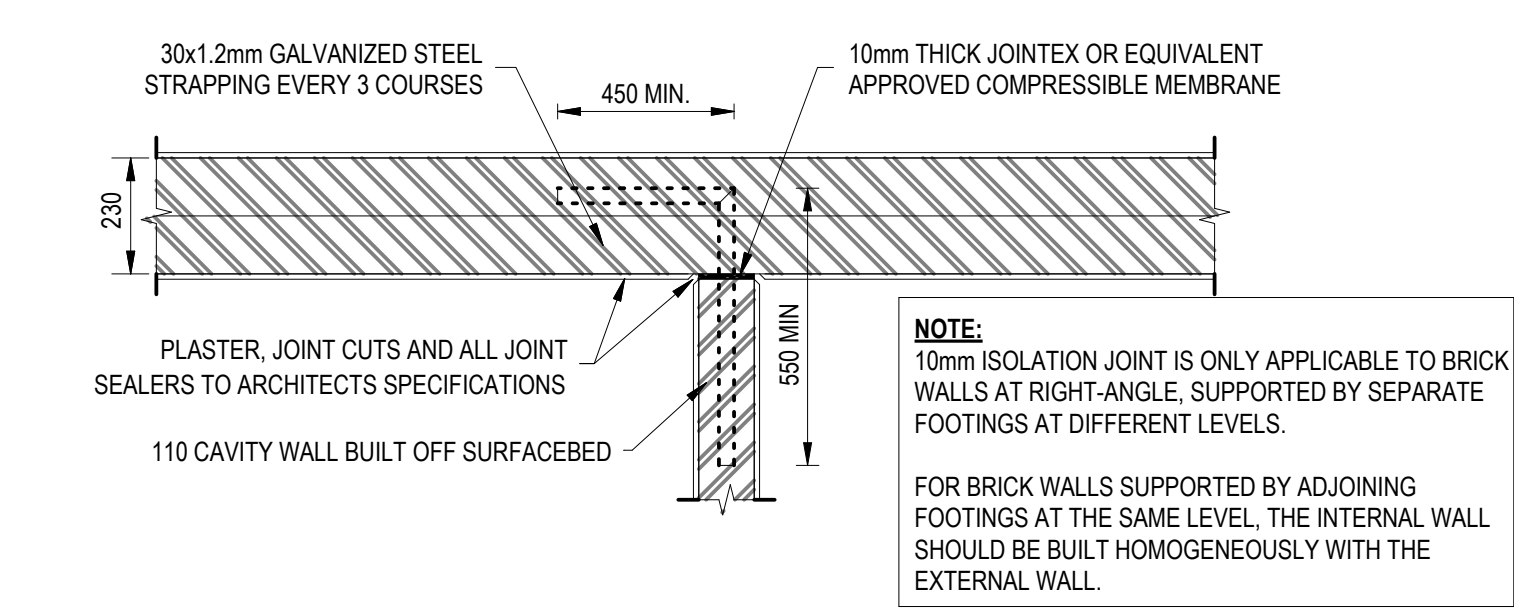
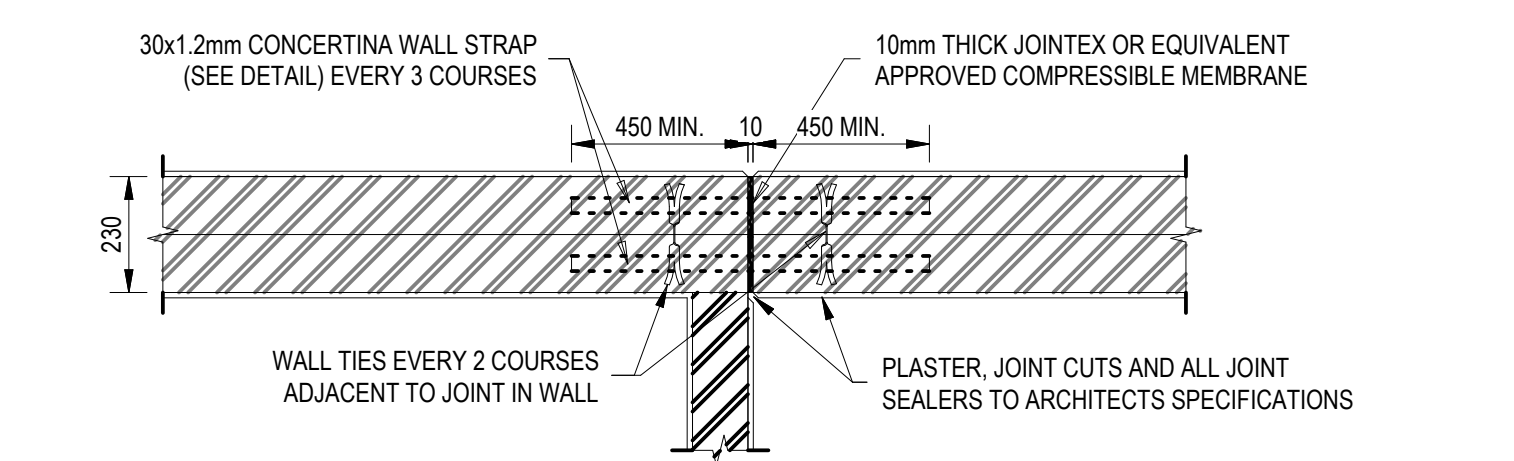


MASONRY NOTES:

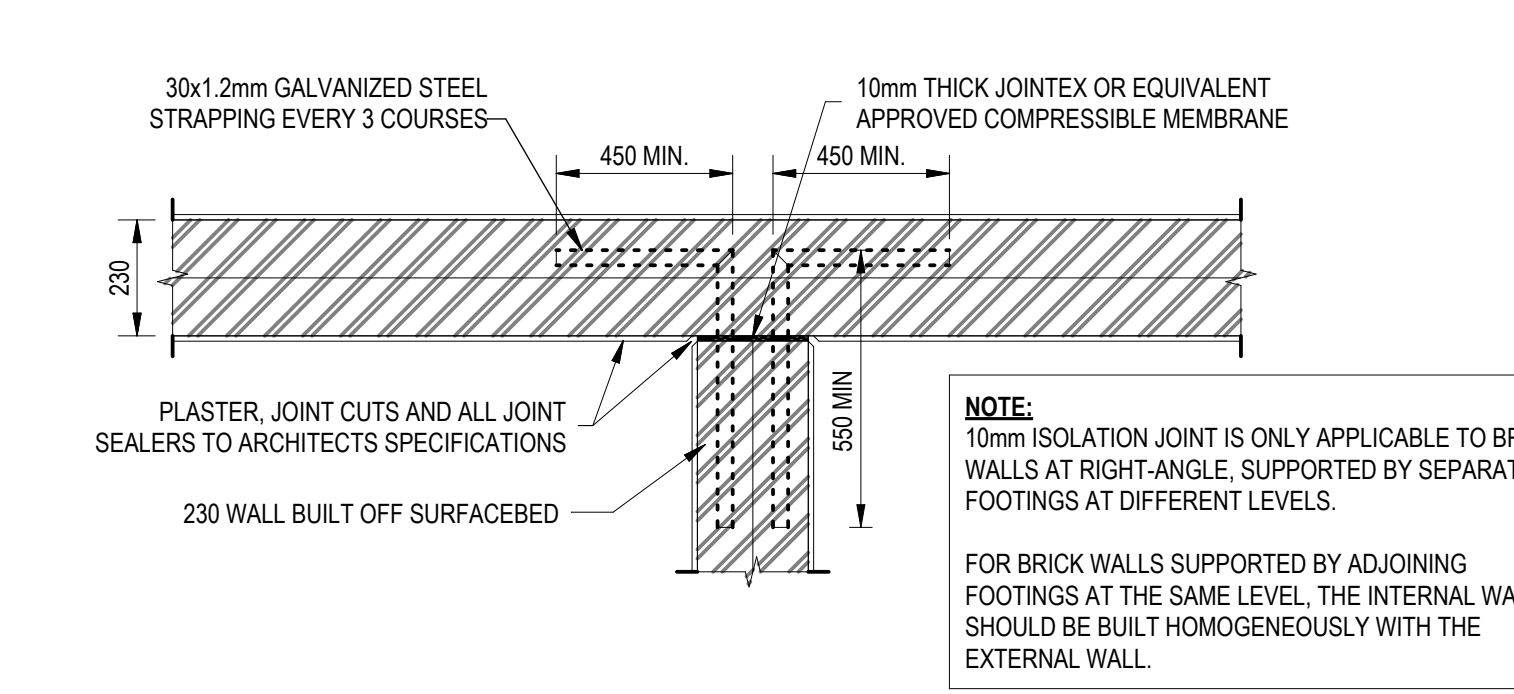
- M1. ALL FOUNDATION, LOAD BEARING BRICKWORK AND BRICK RETAINING WALLS SHALL BE CONSTRUCTED FROM BURNT CLAY MASONRY UNITS COMPLYING WITH SANS 227:2007 OR CONCRETE MASONRY UNITS COMPLYING WITH SANS 1215:2008 AND SET IN MORTAR OF CLASS II IN ACCORDANCE WITH SANS 2001-CM1:2012.
- M2. LOAD BEARING BRICKWORK WITH CONCRETE ON TOP IS TO BE ERECTED PRIOR TO CONCRETE OVER BEING CAST.
- M3. ALL NON-LOAD BEARING MASONRY WALLS SHALL BE CONSTRUCTED FROM BURNT CLAY MASONRY UNITS COMPLYING WITH SANS 227:2007 OR CONCRETE MASONRY UNITS COMPLYING WITH SANS 1215:2008 AND SET IN MORTAR OF CLASS II IN ACCORDANCE WITH SANS 2001-CM1:2012.
- M4. ALL NON-LOAD BEARING MASONRY WALLS ARE TO HAVE A 10mm ISOLATION JOINT (JOINTEX) OR EQUALLY APPROVED COMPRESSIBLE MEMBRANE BELOW THE SOFFIT OF SLABS AND BEAMS AND AT VERTICAL JOINTS BETWEEN CONCRETE COLUMNS AND WALLS AND MASONRY WALLS.
- M5. BRICKWORK ABOVE WINDOW AND DOOR OPENINGS AND DIRECTLY ABOVE FLOORS SLABS TO TYPICALLY HAVE 4 LAYERS OF BRICKFORCE BUILT IN BETWEEN THE FIRST 5 COURSES OF BRICKWORK.
- M6. FOR THE TREATMENT OF JOINTS BETWEEN THE BRICKWORK AND THE CONCRETE STRUCTURE AND FOR THE POSITIONS OF OTHER JOINTS IN BRICKWORK TO ACCOMMODATE BRICKWORK MOVEMENT, REFER TO THE ARCHITECT'S DRAWINGS.
- M7. MASONRY WALL CONSTRUCTION ON SUSPENDED SLABS MAY ONLY COMMENCE ONCE THE SLAB HAS REACHED DESIGN STRENGTH AND IS SELF-SUPPORTING, I.E. NO PROPPING UNDERNEATH OR FROM ABOVE.
- M8. ALL LOAD BEARING WALLS SHALL BE FINISHED LEVEL AND A SMOOTH TOP SURFACE CREATED BY TROWEL FLOATING A 3:1 SAND/CEMENT MORTAR LAYER TWO CONTINUOUS LAYERS OF 3-PLY MALTHOID TO BE PLACED ON THE WALL PRIOR TO CASTING OF CONCRETE. (SLIP JOINT)
- M9. ALL CHASING OF BRICKWORK TO COMPLY WITH THE REQUIREMENTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON SPECIFIC DRAWINGS.



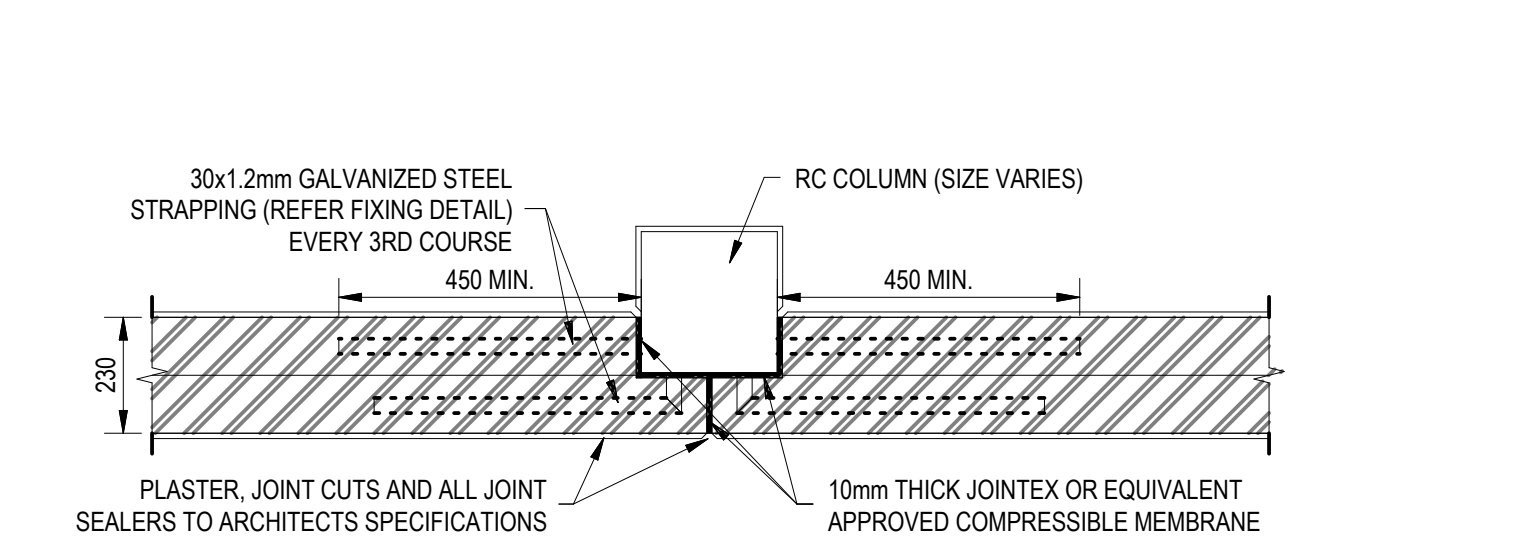
110 INTERNAL WALL AND 230 EXTERNAL WALL JOINT DETAIL (CJ1)
1 : 15



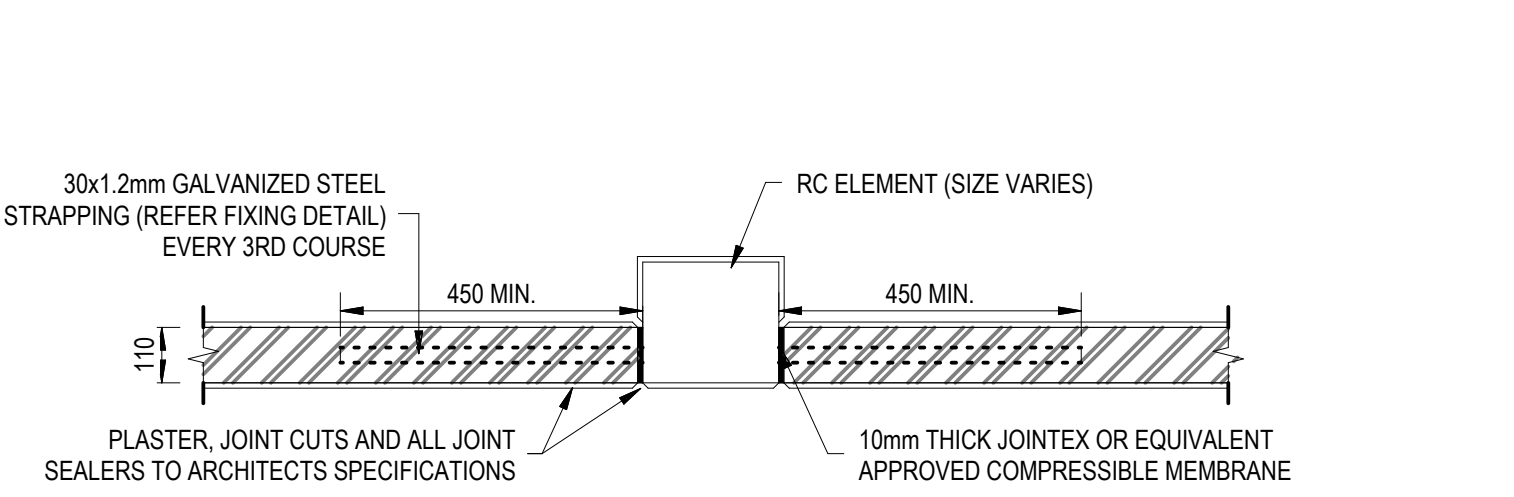
110 INTERNAL WALL AND 230 EXTERNAL WALL EXPANSION JOINT DETAIL (CJ2)
1 : 15



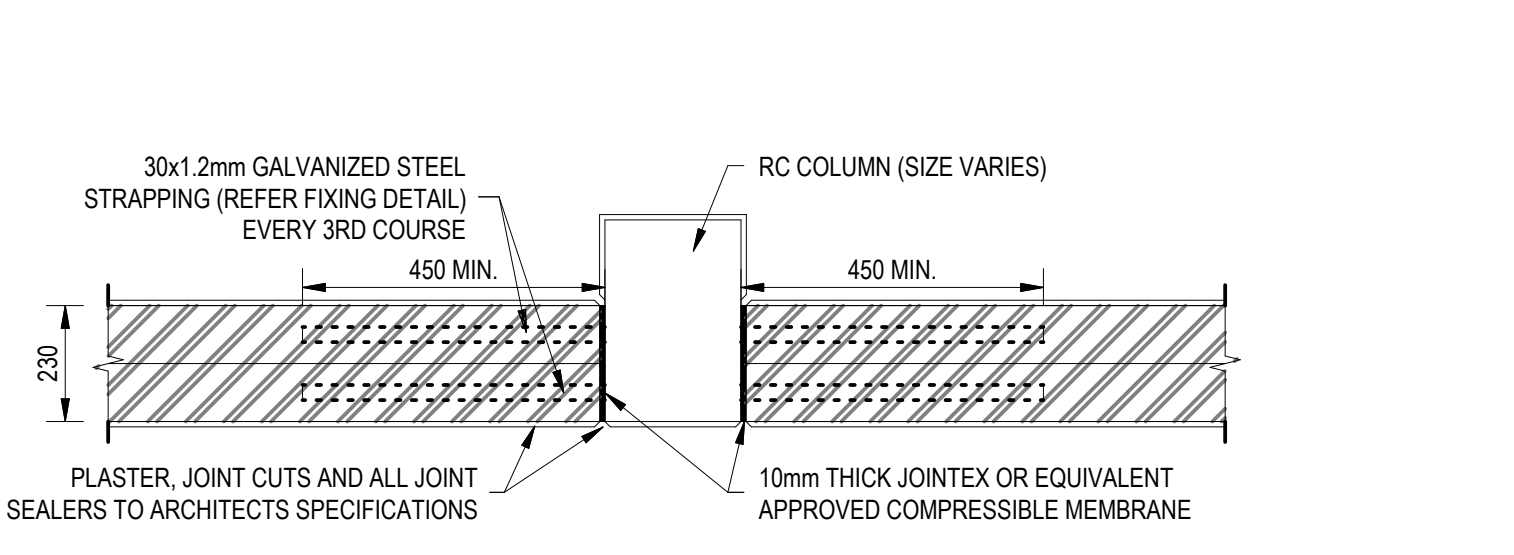
230 INTERNAL WALL AND 230 EXTERNAL WALL JOINT DETAIL (CJ3)
1 : 15



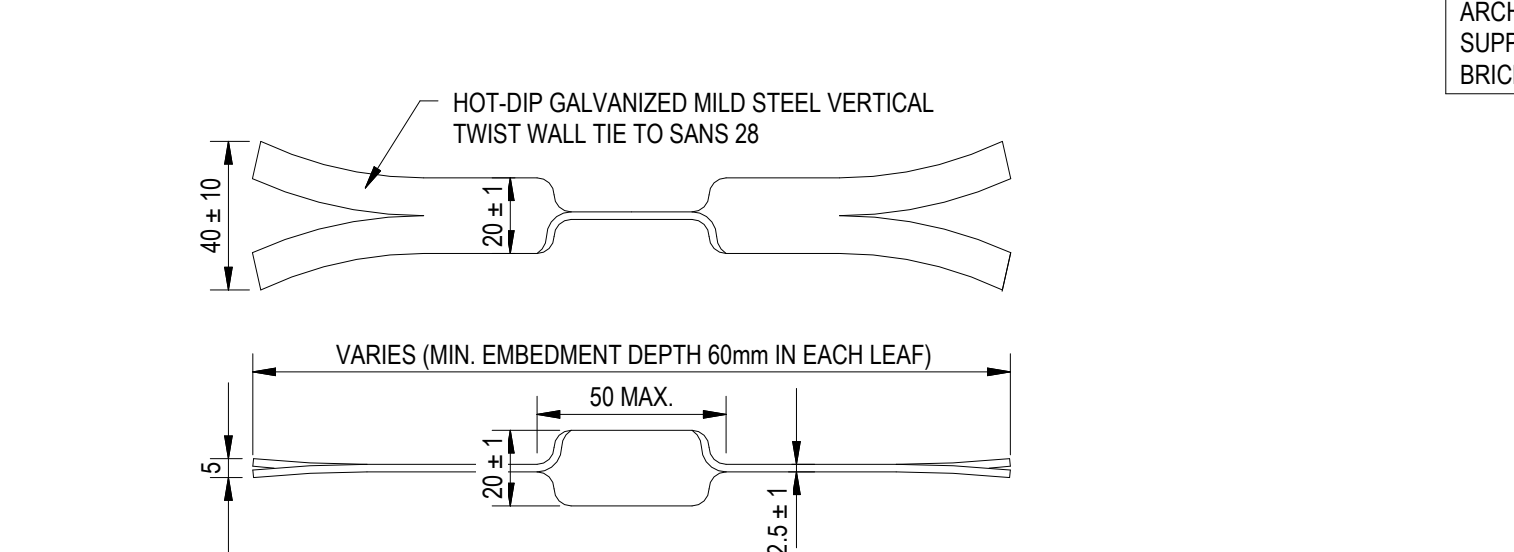
230 MASONRY WALL JOINT DETAIL AT RC COLUMN (FACING) (CJ4)
1 : 15



110 MASONRY WALL JOINT DETAIL AT RC COLUMN (CJ5)
1 : 15

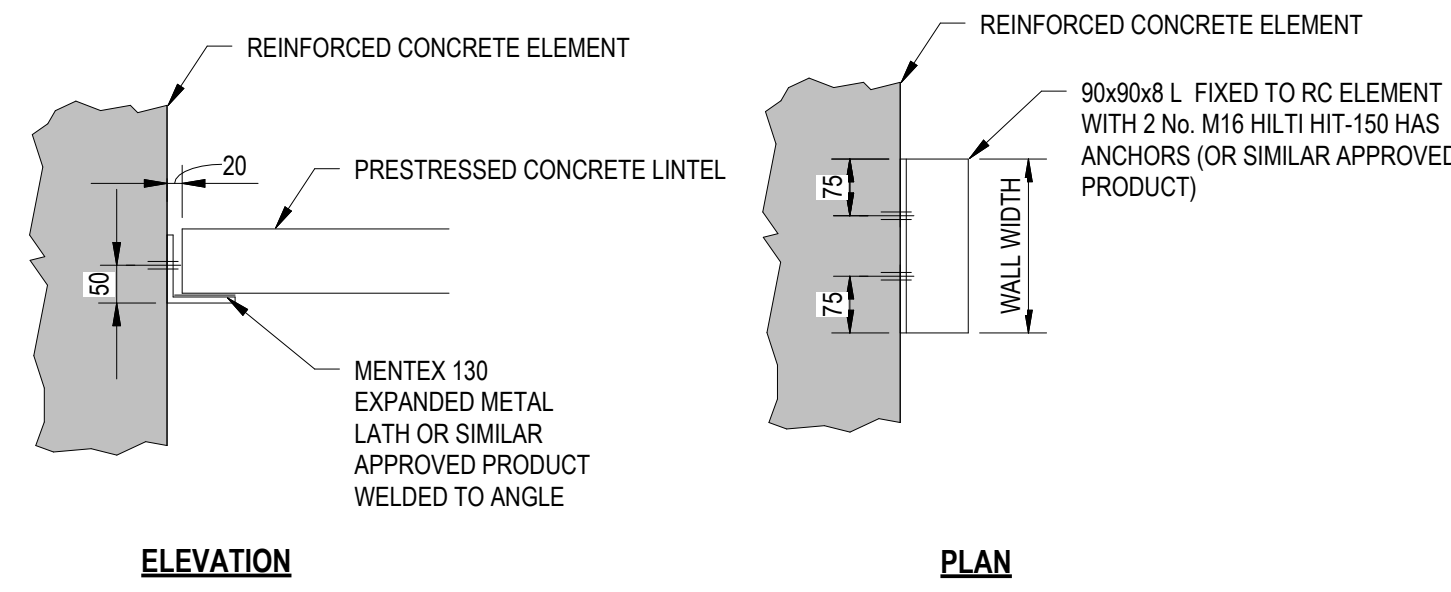


230 MASONRY WALL JOINT DETAIL AT RC COLUMN (CJ6)
1 : 15

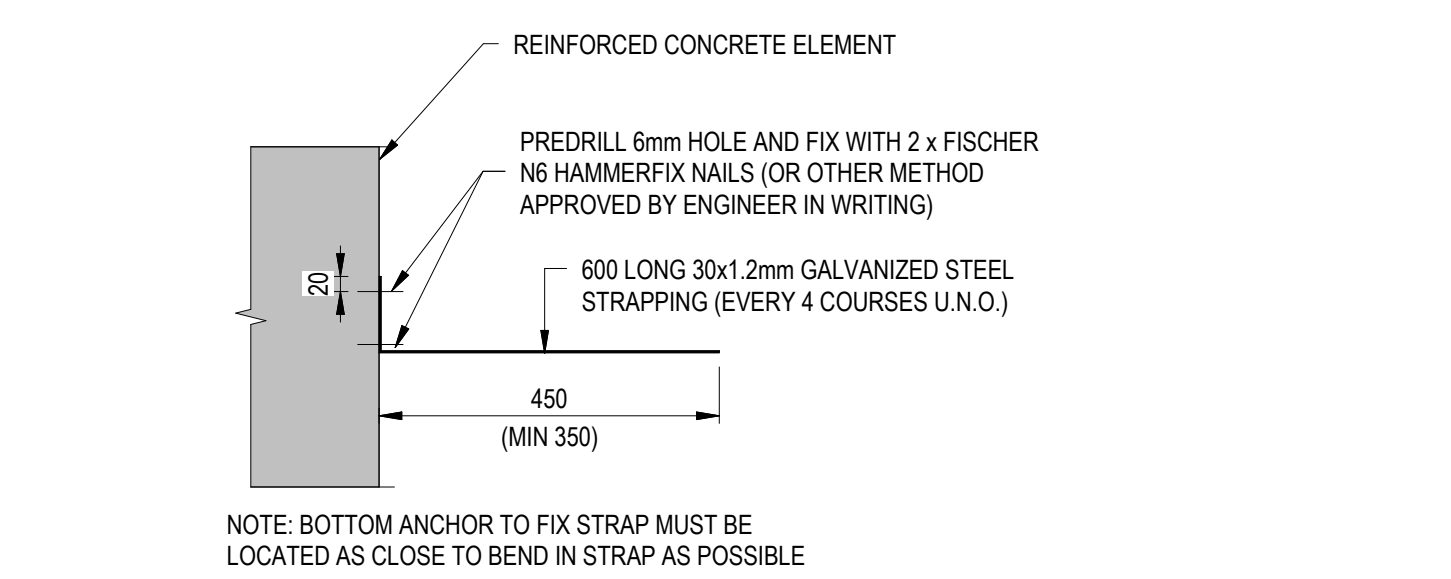


VERTICAL TWIST WALL TIES
1 : 2

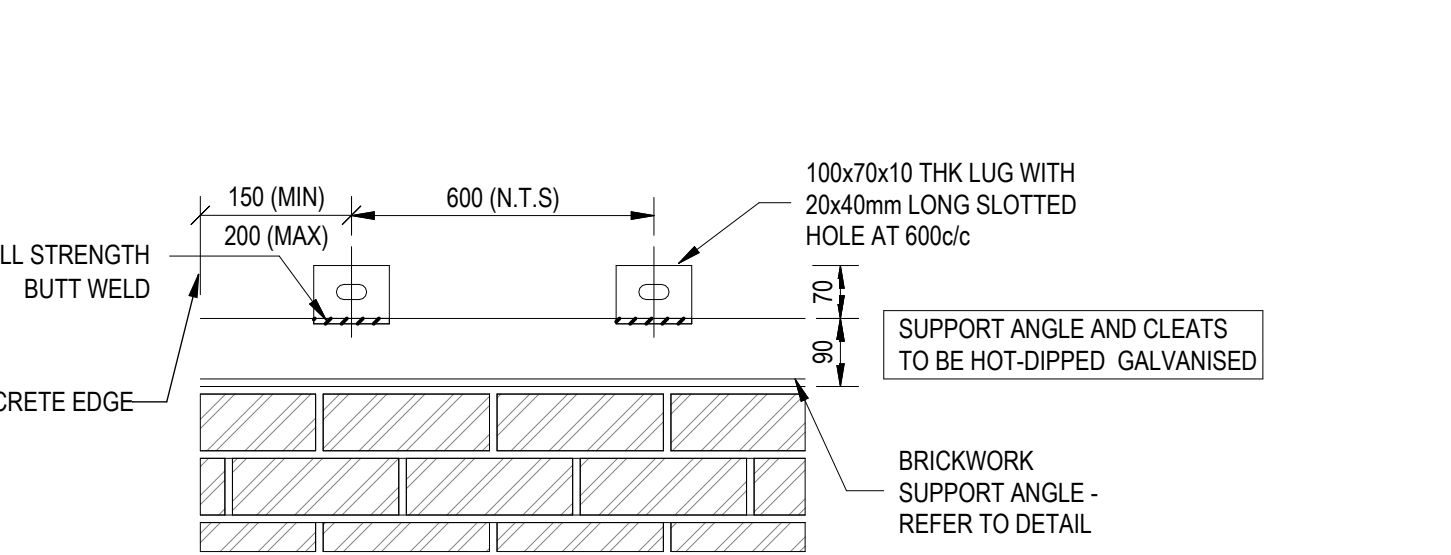
CONCERTINA WALL STRAP DETAIL
1 : 5



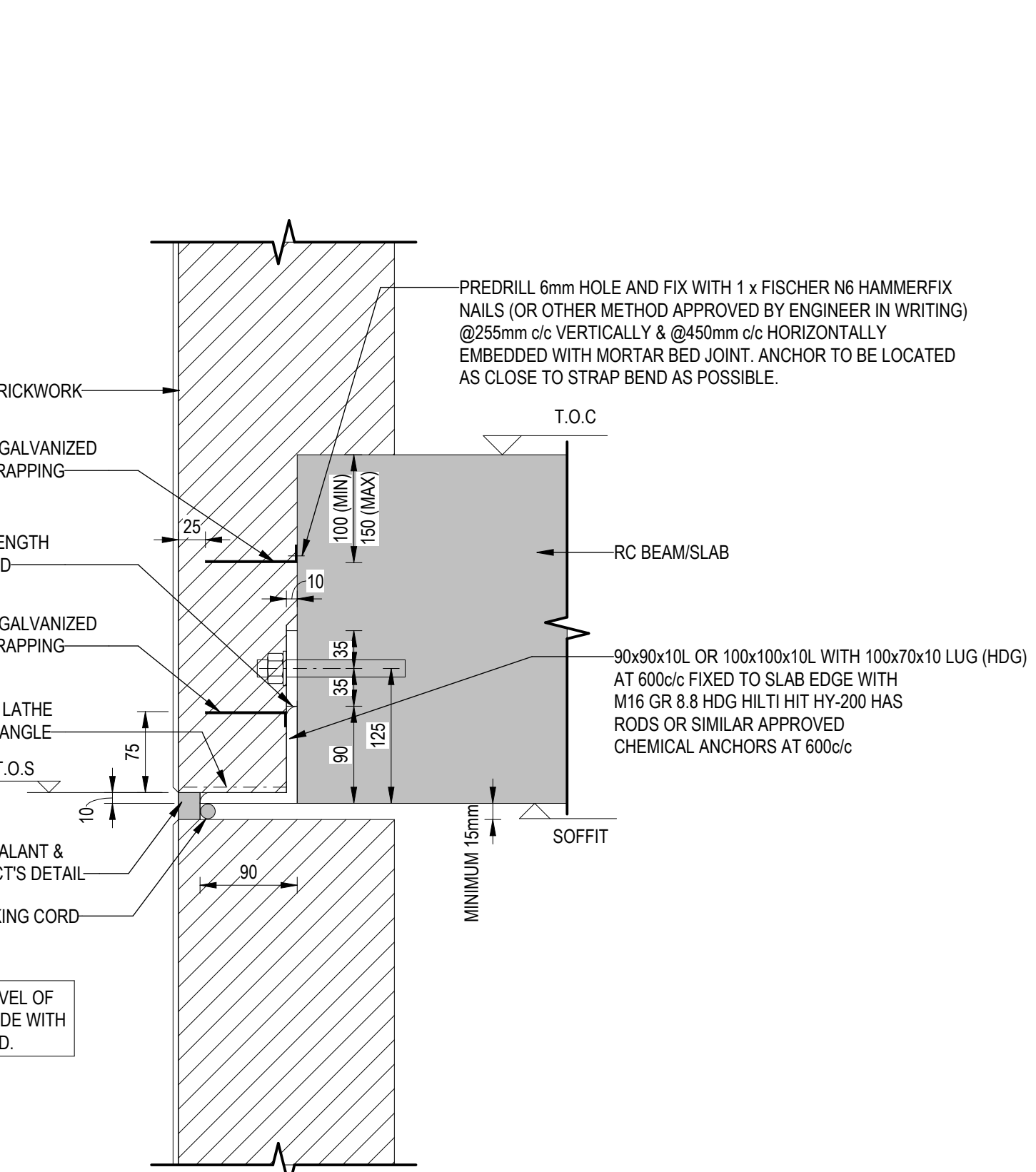
LINTEL SUPPORTS AT RC ELEMENTS
1 : 10



GALVANIZED STEEL STRAP FIXING DETAIL
1 : 10

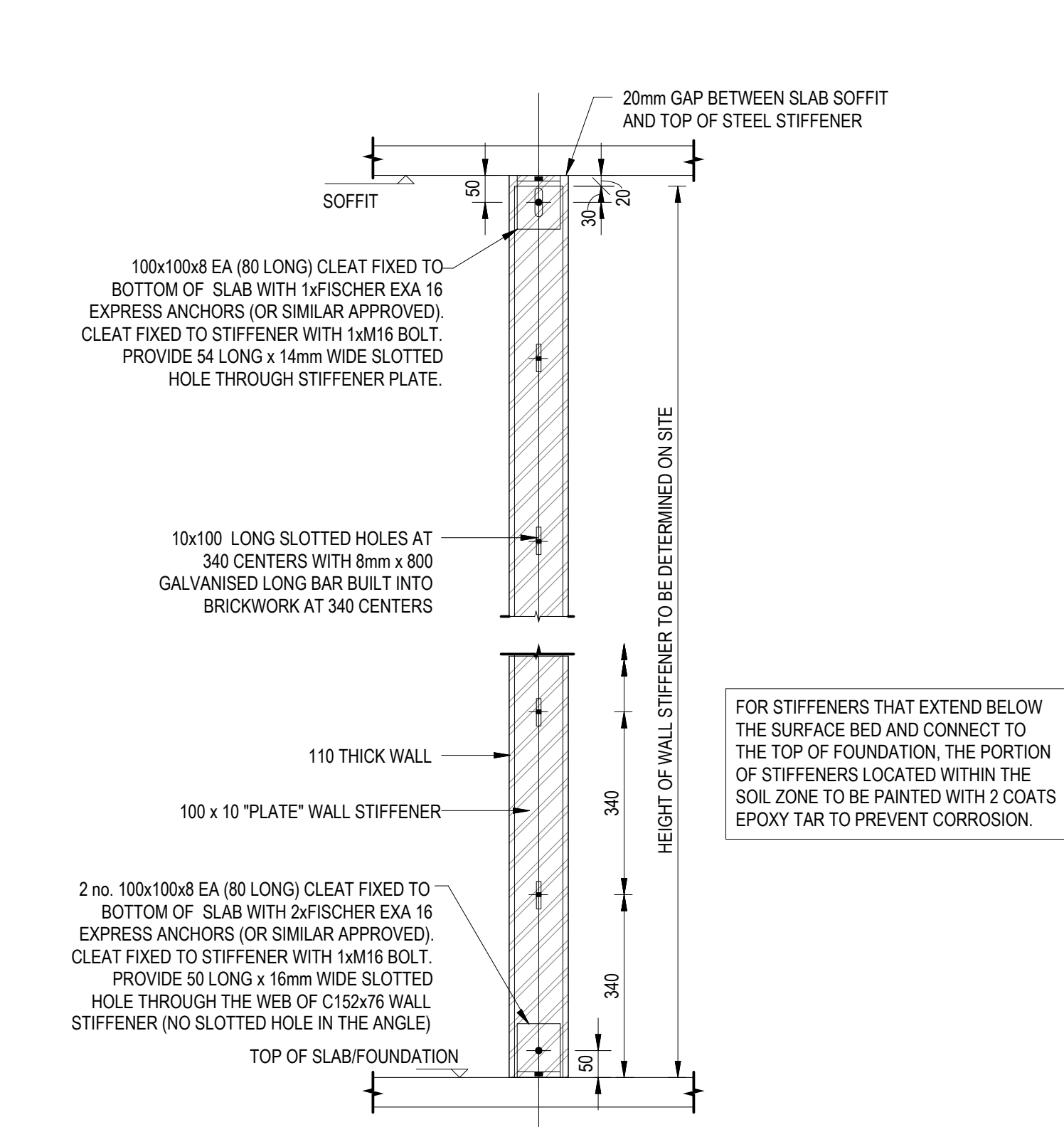


ELEVATION ON LUGS
1 : 10

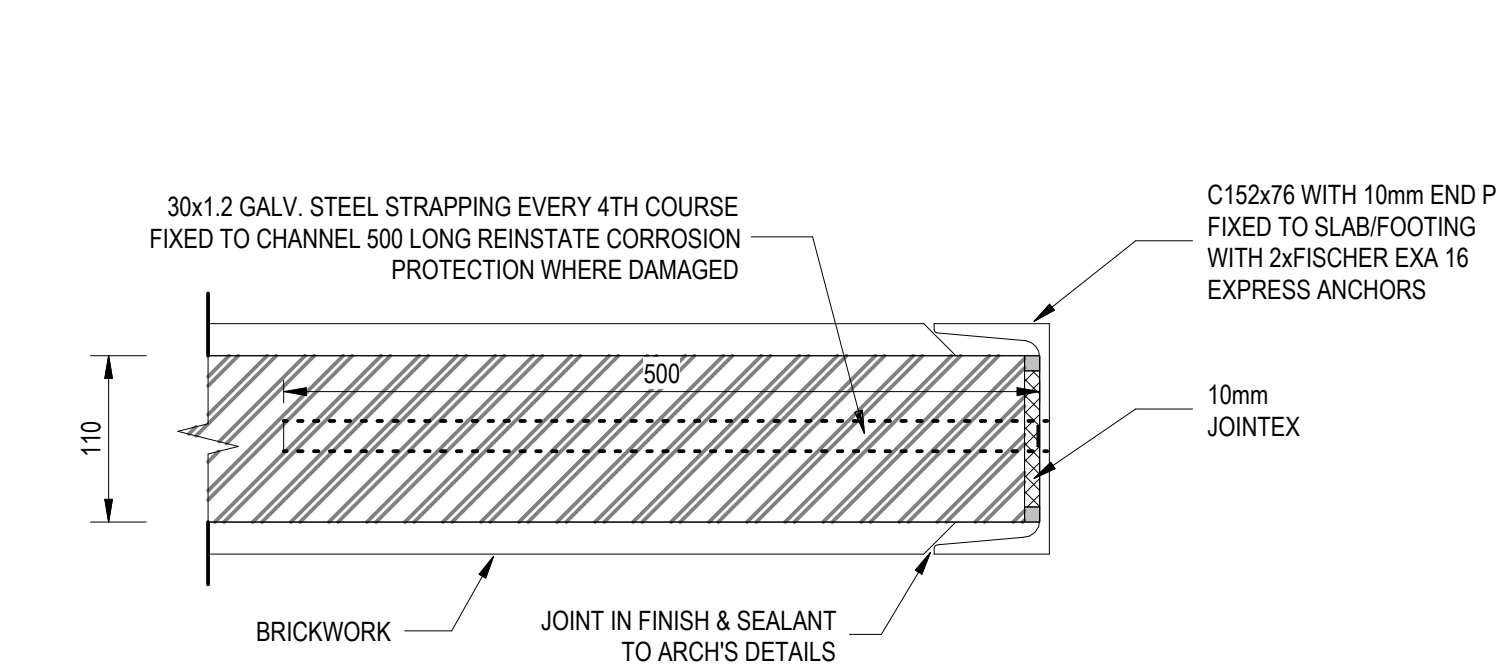


TYPICAL BRICKWORK SUPPORT ANGLE DETAIL
1 : 5

PLAN OF "PLATE" STIFFENER TYPE 1 FOR 110mm INTERNAL WALL (WS01)
1 : 5



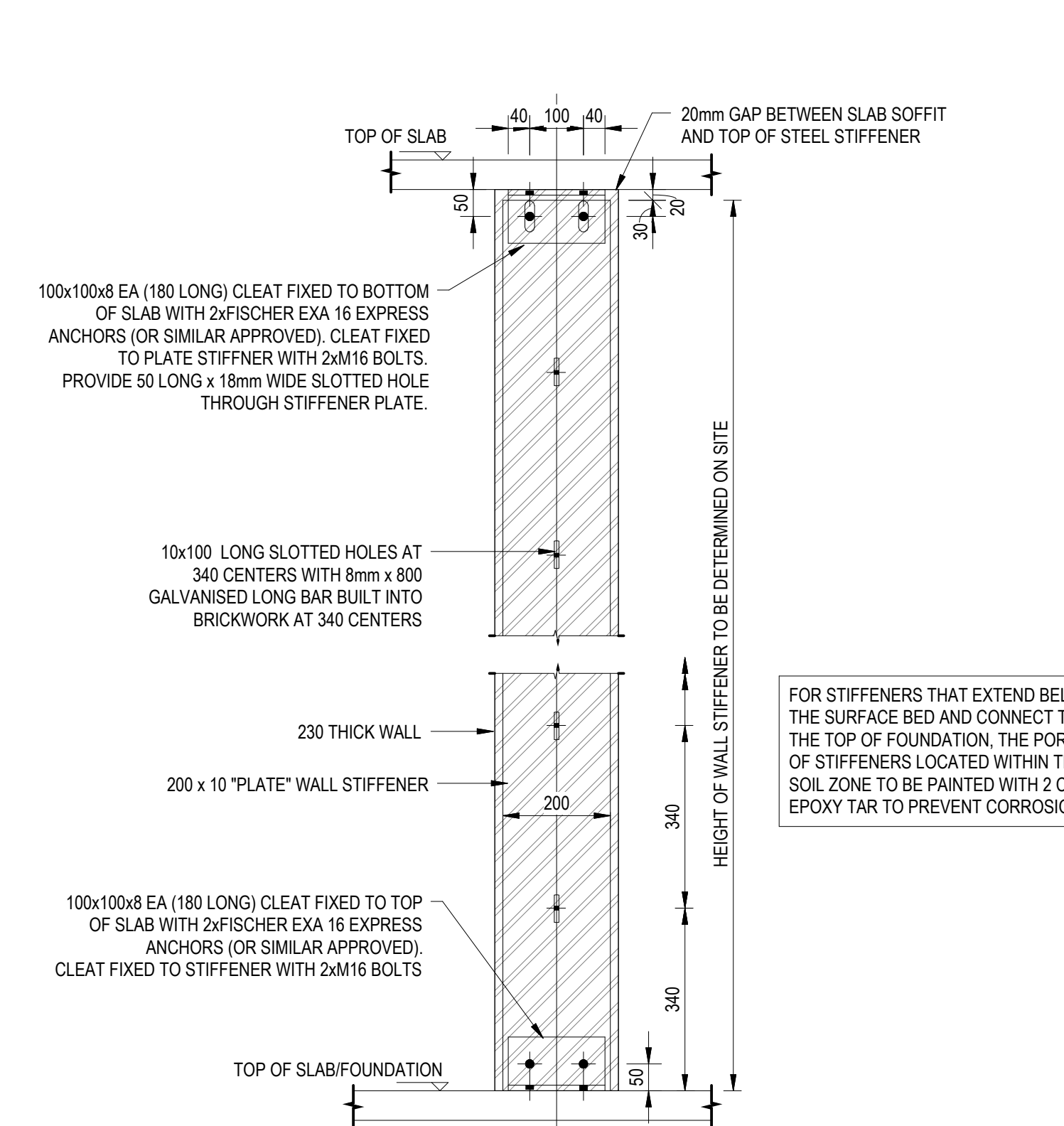
ELEVATION OF WALL STIFFENER TYPE 1 FOR 110mm WALL (WS01)
1 : 10



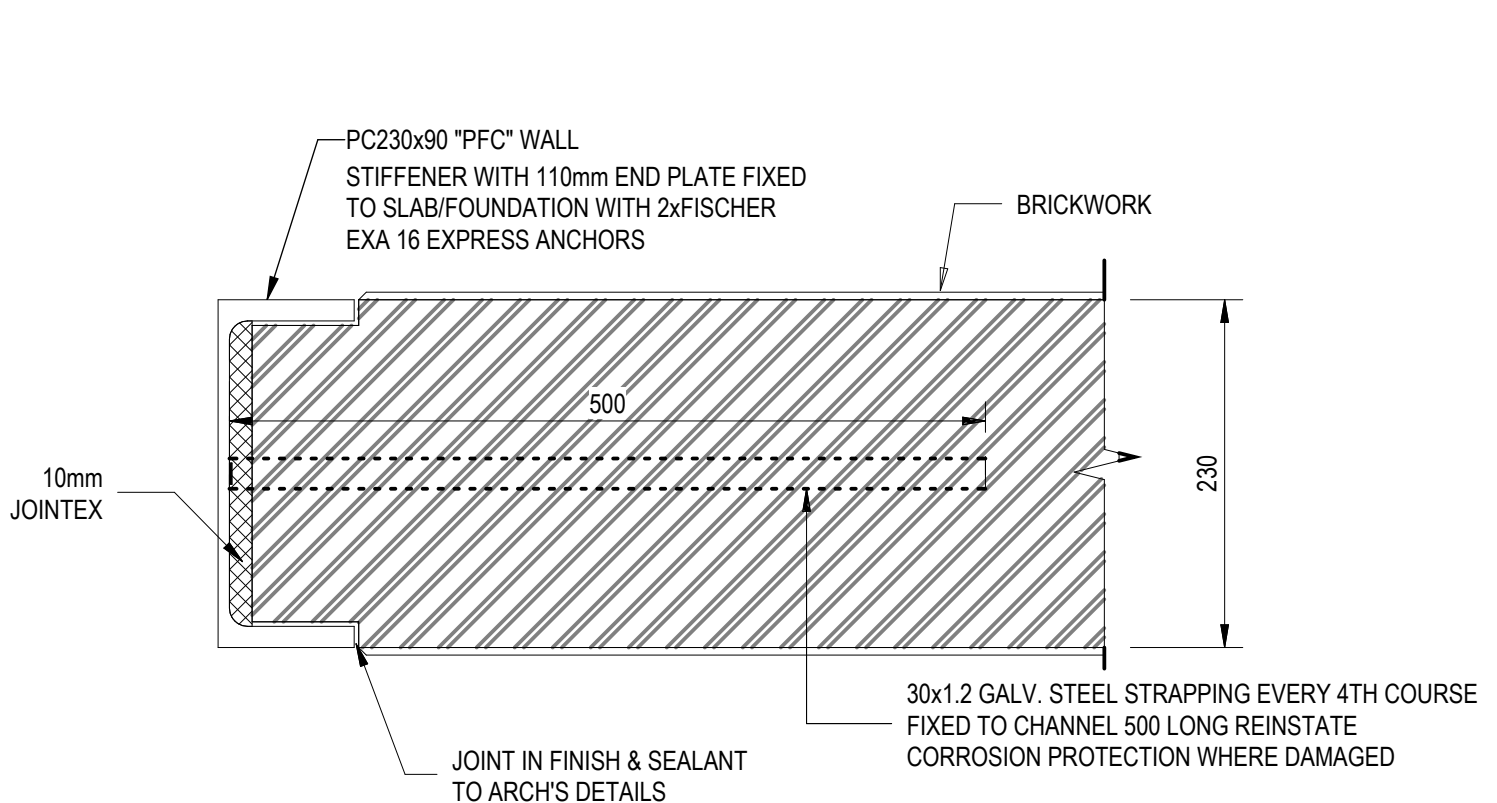
PLAN OF CHANNEL STIFFENER TYPE 3 FOR 110mm WALL END (WS03)
1 : 5



PLAN OF "PLATE" STIFFENER TYPE 2 FOR 230mm INTERNAL WALL (WS02)
1 : 5



ELEVATION OF WALL STIFFENER TYPE 2 FOR 230mm WALL (WS02)
1 : 10



PLAN OF CHANNEL STIFFENER TYPE 4 FOR 230mm WALL END (WS04)
1 : 5



MASONRY WALL CHASES

- CHASES WILL ONLY BE PERMITTED IN MASONRY WALLS OF SOLID UNIT CONSTRUCTION.
- CHASES IN HOLLOW MASONRY UNITS ARE NOT PERMITTED. PIPES AND CONDUITS IN WALLS OF HOLLOW UNIT CONSTRUCTION SHALL BE LOCATED WITHIN THE CORES OF HOLLOW MASONRY UNITS.
- CHASING IN ANY CONCRETE ELEMENT (INCLUDING PRESTRESSED CONCRETE LINTELS) IS NOT PERMITTED.

ALL SLEEVES, CHASES AND PENETRATIONS IN MASONRY WALLS SHALL AS FAR AS POSSIBLE BE PROVIDED DURING CONSTRUCTION OF MASONRY WALLS AND SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS.

VERTICAL CHASES

VERTICAL CHASES MUST BE LIMITED TO HALF THE WALL HEIGHT FROM EITHER THE TOP OR BOTTOM OF THE WALL AND SHALL BE LIMITED IN DEPTH AS GIVEN IN THE SKETCH AND TABLE BELOW.

HORIZONTAL CHASES

HORIZONTAL CHASES SHALL BE LIMITED IN LENGTH AND LIMITED IN DEPTH AS GIVEN IN THE SKETCH AND TABLE BELOW.

CHASES MUST BE IN A STRAIGHT LINE AND DIAGONAL CHASES NOT ALLOWED.

WALL TYPE	d ¹	MAX. LENGTH OF VERTICAL CHASE	d ²	MAX. LENGTH OF HORIZONTAL CHASE (w _y)
	mm		mm	mm
110 WALL	30	HALF WALL HEIGHT	15	500
230 WALL	50	HALF WALL HEIGHT	30	1000
280 CAVITY WALL	30	HALF WALL HEIGHT	15	500

CHASE (SHOWN HATCHED)

CONCRETE ELEMENT

MASONRY WALL

CHASES IN ANY CONCRETE ELEMENT ARE NOT PERMITTED

NO CHASES HORIZONTAL OR VERTICAL SHOULD BE MADE BACK TO BACK.

ONCE PIPES AND CONDUITS HAVE BEEN PLACED IN CHASES THEY SHALL BE SOLIDLY FILLED WITH MORTAR OF THE SAME CLASS AS THE MASONRY WALL CONSTRUCTION. MULTIPLE CONDUITS SHALL BE SPACED WITH 10mm GAPS TO ALLOW FOR SOLID FILLING.

ALL PLASTER, PLASTER REINFORCING OR ANY SPECIAL DETAILS RELATING TO CHASING ARE TO BE IN ACCORDANCE WITH THE ARCHITECT.

IT REMAINS THE RESPONSIBILITY OF THE MAIN CONTRACTOR TO ENSURE SUB-CONTRACTOR COMPLIANCE WITH THIS NOTE.

ANY DEVIATION FROM THESE NOTES MUST BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO THE WORK TAKING PLACE.

MASONRY REINFORCEMENT

BRICKFORCE

MASONRY REINFORCEMENT ('BRICKFORCE') SHALL COMPRISE OF TWO HARD DRAWN WIRES OF DIAMETER NOT LESS THAN 2mm SPREAD AT A CONSTANT DISTANCE APART AND 2mm DIAMETER CROSS WIRES SPREAD AT LONGITUDINAL INTERVALS OF 300mm TO FORM A LADDER CONFIGURATION. THE REINFORCEMENT SHALL BE MANUFACTURED FROM PRE-GALVANIZED WIRE (CLASS A GALVANIZING IN ACCORDANCE WITH SANS 935). THE SPACING BETWEEN THE LONGITUDINAL WIRES SHALL BE APPROPRIATE TO THE WIDTH OF THE WALL (e.g. 5mm FOR 110mm WALLS, 150mm FOR 230mm WALLS, 230mm FOR 280mm CAVITY WALLS). THE MINIMUM LAP IN THE REINFORCEMENT SHALL BE 300mm.

REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS:

POSITION	NO. OF REINF. COURSES
ABOVE FOUNDATIONS / FLOORS SLABS	5*
BELOW ALL OPENINGS (INCL. WINDOWS AND DOORS)	5**
ABOVE ALL OPENINGS (INCL. WINDOWS AND DOORS)	5**
POSITIONS NOT DESCRIBED ABOVE FOR THE FULL HEIGHT OF ALL WALLS	EVERY 4TH COURSE

* AN ADDITIONAL LAYER IS TO BE PROVIDED IN THE LAST COURSE

** REINFORCING TO EXTEND AT LEAST 600mm EITHER SIDE OF OPENING

WALL TIES:

METAL WALL TIES SHALL BE IN ACCORDANCE WITH SANS 26 (WITH HOT-DIP GALVANIZING OF 70g/m²) UNLESS OTHERWISE SHOWN ON DRAWINGS. WALL TIES ARE TO HAVE A MINIMUM EMBEDMENT DEPTH IN EACH SKIN OF CAVITY WALLS OF 60mm AND ARE TO BE PROVIDED AS FOLLOWS:

CAVITY WIDTH	NO. OF TIES PER m ²
50mm - 75mm	5
75mm - 150mm	5 (SEE NOTE)

NOTE:

FOR CAVITY WIDTHS OF 75mm - 150mm WALL TIES ARE TO BE VERTICAL TWIST WALL TIES, REFER TO DETAIL.

RECORD DRAWING

DISCLAIMER

IF CONSTRUCTION DRAWINGS ARE ISSUED UNDESIGNED, THE MASTER WITH THE ORIGINAL SIGNATURE OF APPROVAL WILL BE HELD AT THE ZUTARI OFFICE OF THE APPROVER

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
RD1	2025-09-12	RECORD DRAWING	W. JACKSON
0	2024-10-25	ISSUED FOR CONSTRUCTION	W. JACKSON

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ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS CODE 1000, N.B.S. LOCAL AUTHORITY BYLAW.

USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.

ALL BOUNDARIES, DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BEFORE CONSTRUCTION AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT.

PARTIAL SERVICE: ANY DISCREPANCIES WITH SITE OR OTHER INFORMATION IS TO BE ADVISED TO THE ARCHITECT AND DIRECTION OR APPROVAL IS TO BE SOUGHT BEFORE IMPLEMENTATION OF THE DRAWING.

FOR THE PURPOSE OF COORDINATION, ALL RELEVANT PARTIES MUST CHECK THE INFORMATION PRIOR TO IMPLEMENTATION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

Engineer: W. JACKSON REG No: 201803351
Signature: _____ Date: _____

DBSA
DEVELOPMENT BANK OF SOUTHERN AFRICA
Building Africa's Prosperity

Client: Government Printing Works
Signature: _____ Date: _____

government printing
Department: Government Printing Works
REPUBLIC OF SOUTH AFRICA

PROJECT:
CONSTRUCTION OF NEW CARPORTS, GUARDHOUSE AND BOUNDARY WALL FOR GOVERNMENT PRINTING WORKS ADMINISTRATIVE HEADQUARTERS

PROJECT:
STRUCTURAL ENGINEERING
GENERAL NOTES - SHEET 3

Building Classification: G1: Offices	Climatic Zone: Zone 2
Paper Size: A0	Scale: AS INDICATED
Drawn: J.P. DELPORT	Checked: J. HUANG
PROJECT No: CPW/WHG/2017/02	REVISION: RD1
Drawn by: 1002370-ZUT-DRG-1X-GF-ST-0152	

RECORD DRAWINGS

ZUTARI
IMPACT. ENGINEERED.

For Zutari: _____
For Client: _____

Date: 12-09-2025
Date: _____

As there was no full-time construction monitoring on this project, this drawing has been prepared in reliance upon information provided by the Contractor and the observations and records of the Engineer's Representative on site. The signing by Zutari of this record drawing does not guarantee or certify the accuracy and correctness of the information and detail on this drawing