

21023 **GENERAL SPECIFICATIONS NOTES:**

GENERAL

- Read this drawing in conjunction with all other relevant drawings.
- Advise engineer or architect of any discrepancies.
- All building work to comply with requirements of model building by- laws.
- Check and confirm dimensions and structural levels before construction.
- All brickwork and rammed earth walls to be load bearing – (min. 10 MPa)
- Setting out of brickwork, walls & columns as Architects drawings.
- No provision for electrics, plumbing, fixings, waterproofing, drainage etc. is shown - check and confirm requirements before construction.
- All sleeves, pockets, inserts etc for any plumbing, electrical, mechanical or other works to be to engineer's approval.
- All finishes to Architects specifications.

CONCRETE:

- PC15 cement to be used for all concrete.
- 28 day minimum concrete cube strength;

blinding	5 MPa
strip footings	15 MPa
ground slabs	20 MPa
reinf. concrete	30 MPa
- Formwork stripping time (props remaining):-

beams	-sides 2 days
	-soffit 7 days
slabs	-soffit 4 days
- Removal of props:-

beams	14 days
slabs	10 days
cantilever slab	15 days
- Concrete to be kept wet and continuously cured for 6 days after casting.

REINFORCEMENT:

- Reinforcement to be checked by engineer before placing concrete.
- B bottom; BB bottom bottom; T top; TT top top; Lb L bar;
- Ub U bar; ABS Alternate bars staggered; AP Alternately placed; ABR Alternate bars reversed; NF near face; FF far face; LLT long leg top; Mid mid-height; LLB long leg bottom; EF each face;
- Cover to reinforcement (UNO) 40 mm buried concrete 30mm elsewhere
- All bending dimensions for reinforcement shall conform to SANS 282.
- Reinforcement not to be cut, welded or heated without engineer's agreement.

UNDER FLOOR SUBBASE TO GROUND SLAB:

- Excavate and remove topsoil and all grass, roots and vegetable matter to a depth of at least 300 mm below NGL. (UNO)
- Bottom of excavation to be slightly moistened and mechanically compacted uniformly to refusal.
- Backfill to slab soffit with well graded hardcore - no pieces greater than 50mm dia. - or road gravel or decomposed granite or other approved granular fill, suitably moistened and mechanically well compacted uniformly in not greater than 150mm thick layers.
- Apply approved termite protection in accordance with manufactures instructions

CONCRETE GROUND SLAB:

- Provide one layer minimum 0.25 mm thick polythene sheeting between subbase fill and concrete ground slab.
- Cast concrete floor slab to specified thickness reinforced with S193 mesh- one top layer supported & placed 25mm below slab top surface, and one bottom layer supported at 25mm above slab soffit.
- Minimum lap between mesh sheets to be ≥ 250mm.
- Provide 2 thicknesses DPC or 6mm kaylite, or similar between edge of concrete floor slab and brick wall/ground beams
- Floor finish to Architects' specification.

- For buildings in vicinity of site investigation trial holes 1, 3, 5 & 6 estimated founding depth approximately 500mm below NGL.
- For buildings in vicinity of site investigation trial holes 2 & 4, estimated founding depth approximately 1500mm below NGL.
- Note that final founding depths to be confirmed on site.
- Bottom of excavation to be slightly moistened and very well rammed before placing concrete.
- For brickwork below ground, provide brick force every 2nd course.
- 2 x 230 walls with 285 cavity 250 x 1380 strip footing.
- 345 walls 250 x 800 strip footing
- 230 walls 250 x 800 strip footing
- 150 walls 250 x 600 strip footing.
- 115 walls 250 x 600 strip footing.
- Steel foundation ground screws type M114 2100-M24 by Krinner, South Africa.

STEEL WORK:

- Before cutting and fabrication of any steelwork, check and confirm setting out and all dimensions and structural levels.
- All welding to be minimum 6mm fillet shop weld and fully continuous all round unless noted or agreed otherwise.
- Steelwork contractor to supply main contractor with all items to be cast into concrete.
- Shop details of structural steelwork to be submitted to engineer for approval prior to fabrication.
- All steelwork to be thoroughly wire brushed and 2 coats red oxide or similar approved corrosion protection applied. Finish coat to Architects specification.
- Any proposed alternative details to be submitted to engineer/architect for approval.

TIMBER:

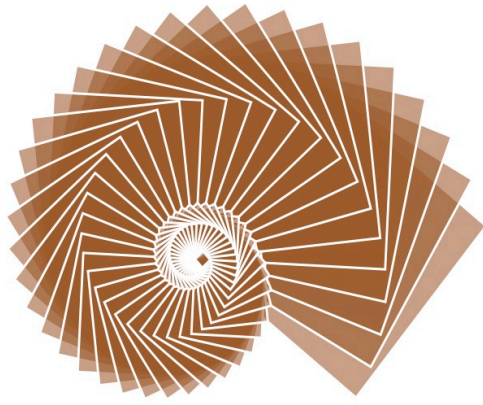
- Steel washers against timber surfaces to be at least 3 times diameter of fixing bolt.
- For column bracing connection details noted on drawing 21023-S-200, refer to details on drawing 21023-S-500. All bolts 16 dia class 4.8 and steel plate thickness not less than 5mm.

REFERENCES, DESIGN CODES:

- SABS 0100-1 Structural use of Concrete.
- SANS 10160-2:2011 Self weight & imposed loads.
- SANS 10162-1:2011 Structural use of steel.
- SANS 10163-1:2003 Structural use of timber-Limit state Design.
- SABS 0164-1:1980 Structural use of Masonry.
- SANS 10400 K:2011 Walls.
- SABS Standard Building Regulation
- SANS 10160-3:2019 Wind Actions
- SANS 10160-4:2017 Seismic Actions and General Requirements for buildings.

DRAWING SCHEDULE:

- 21023-S-000 General Specifications & Notes
- 21023-S-10 Large Stalls Foundation Layout & Sections
- 21023-S-100 Large Stalls Ground floor slab Layout & Sections
- 21023-S-110 Large Stalls Roof Rafters, Purlins & Beam layouts
- 21023-S-20 Trader Stalls Foundation Layout & Sections
- 21023-S-200 Trader Stalls Ground floor slab Layout & Sections
- 21023-S-210 Trader Stalls Roof Rafters, Purlins & Beam layouts
- 21023-S-30 Ablutions Foundation Layout & Sections
- 21023-S-300 Ablutions Ground floor slab Layout & Sections
- 21023-S-310 Ablutions Roof Rafters, Purlins & Beam layouts
- 21023-S-315 Biodigester RC layout & details
- 21023-S-40 Cooking hut Foundation Layout & Sections
- 21023-S-400 Cooking hut Ground floor slab Layout & Sections
- 21023-S-410 Cooking hut Roof Rafters, Purlins & Beam layouts
- 21023-S-50 Solid waste Foundation layout& details
- 21023-S-515 Solid waste Roof Rafters, Purlins & Beam layouts



Zimbabwe Idai Recovery
Project

Jopa Women's Market

Structural General Notes

Project no. REQ-ZIM 2021-117

Date 15/12-2021

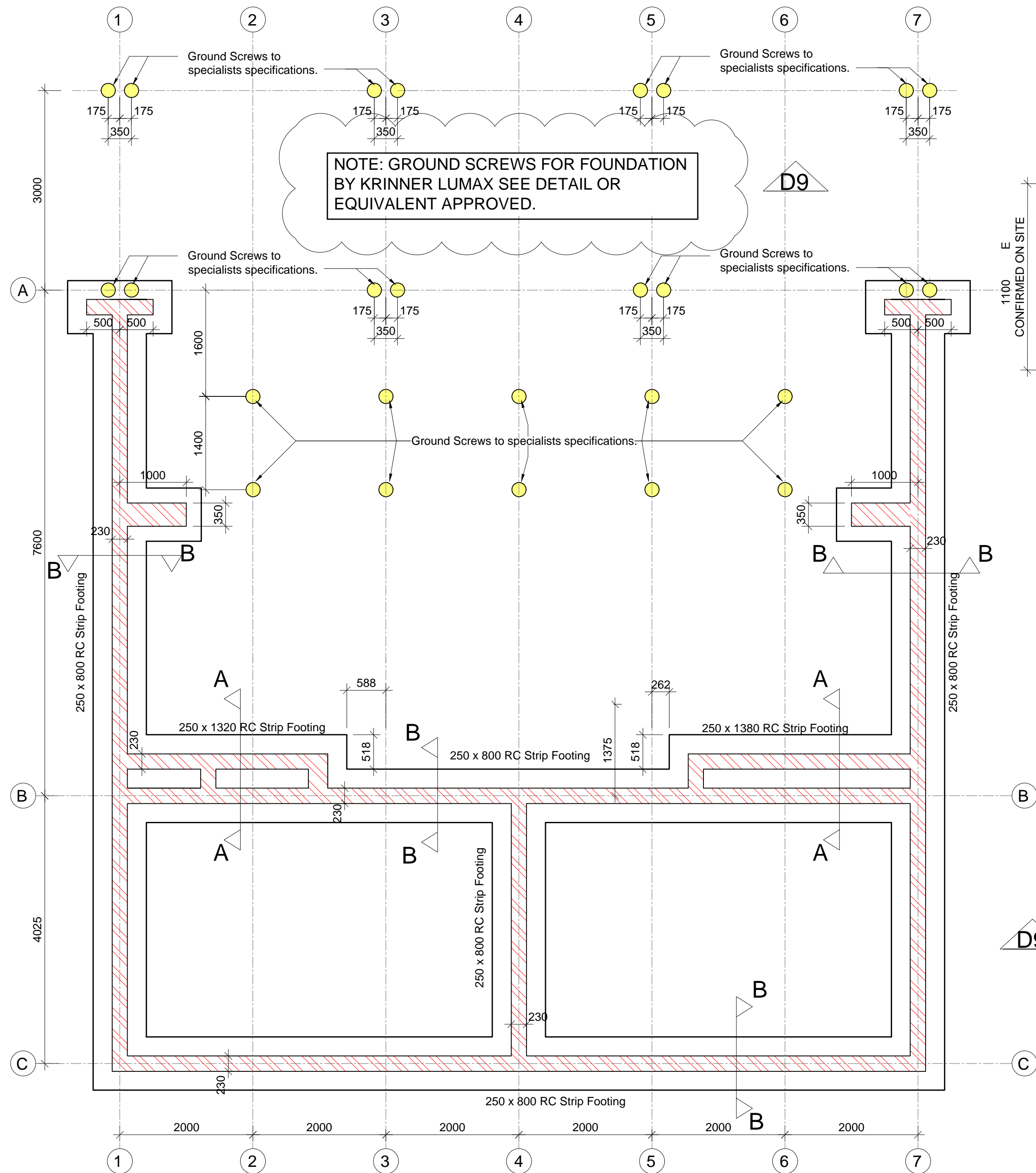
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S-000

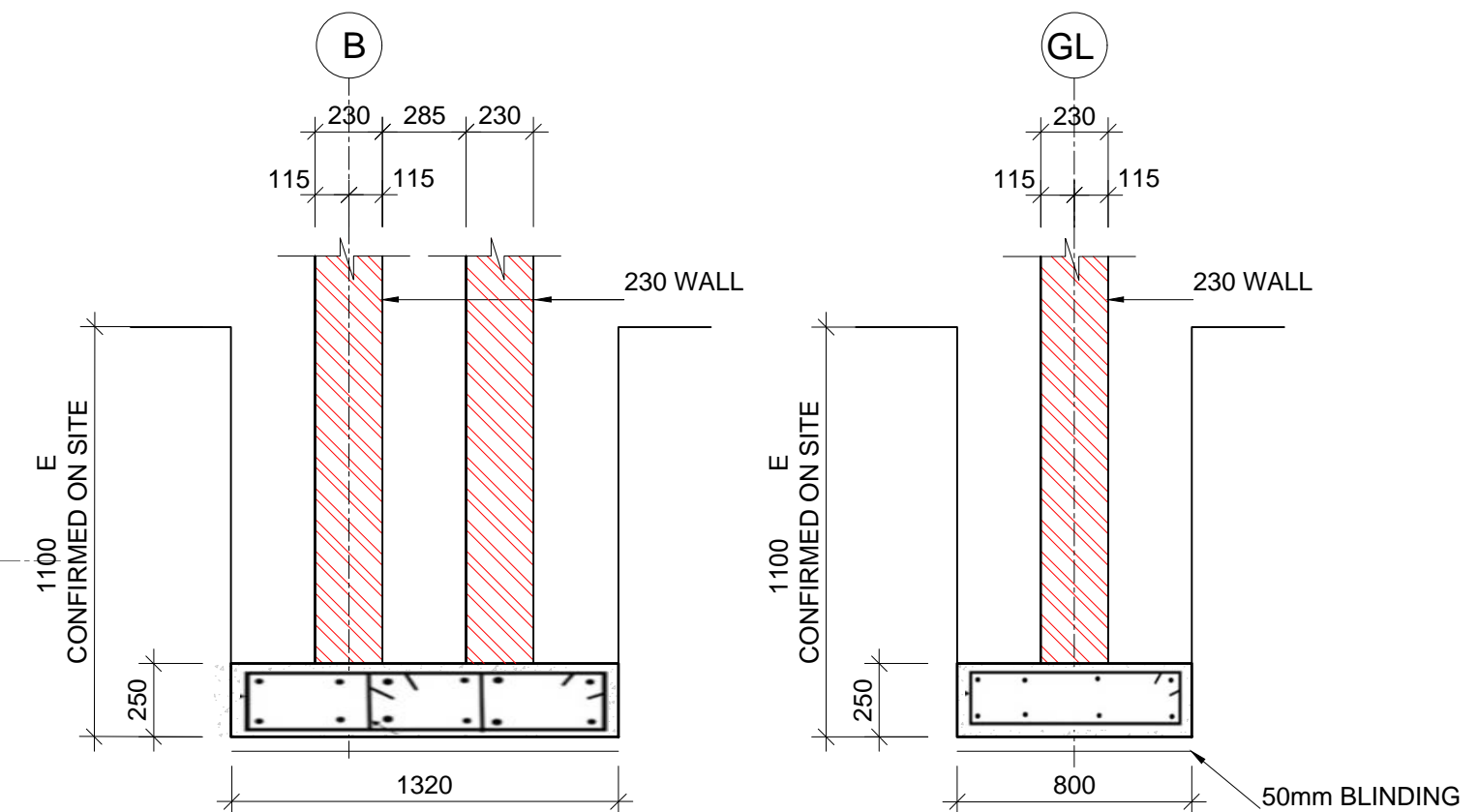
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D6



LARGE MARKET STALLS FOUNDATION LAYOUT

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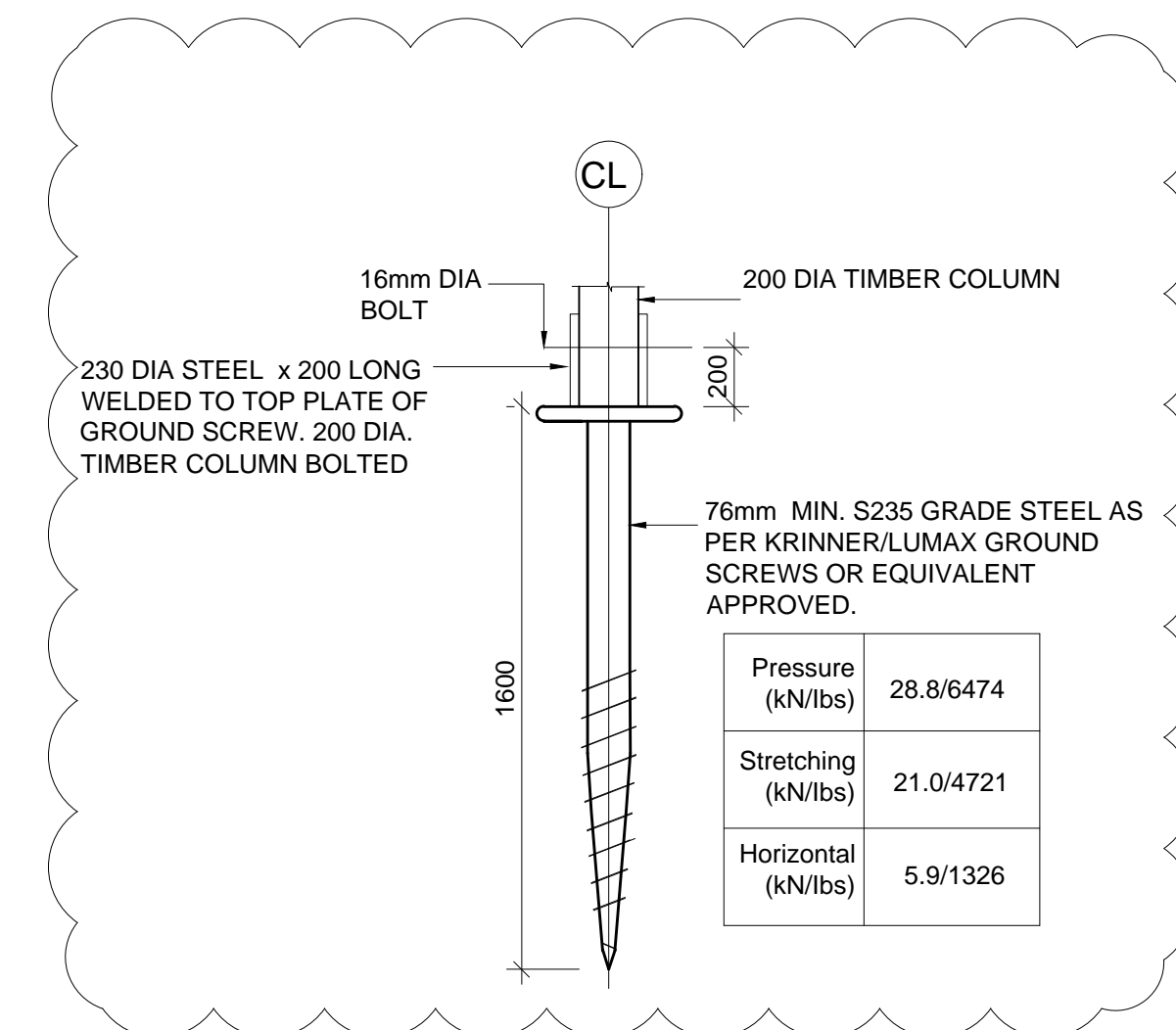


SECTION A - A

Scale: 1 : 25

SECTION B - B

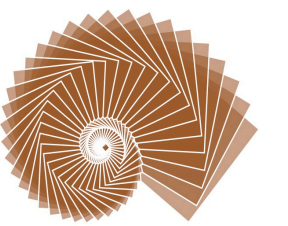
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TYPICAL GROUND SCREW DETAIL

Scale: 1 : 25

Pressure (kN/lbs)	28.8/6474
Stretching (kN/lbs)	21.0/4721
Horizontal (kN/lbs)	5.9/1326



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Zimbabwe Idai Recovery Project
Jopa Women's Market

Large Stalls -
Foundation Layout & Sections

Project no. REQ-ZIM 2021-117

Date 15/12-2021

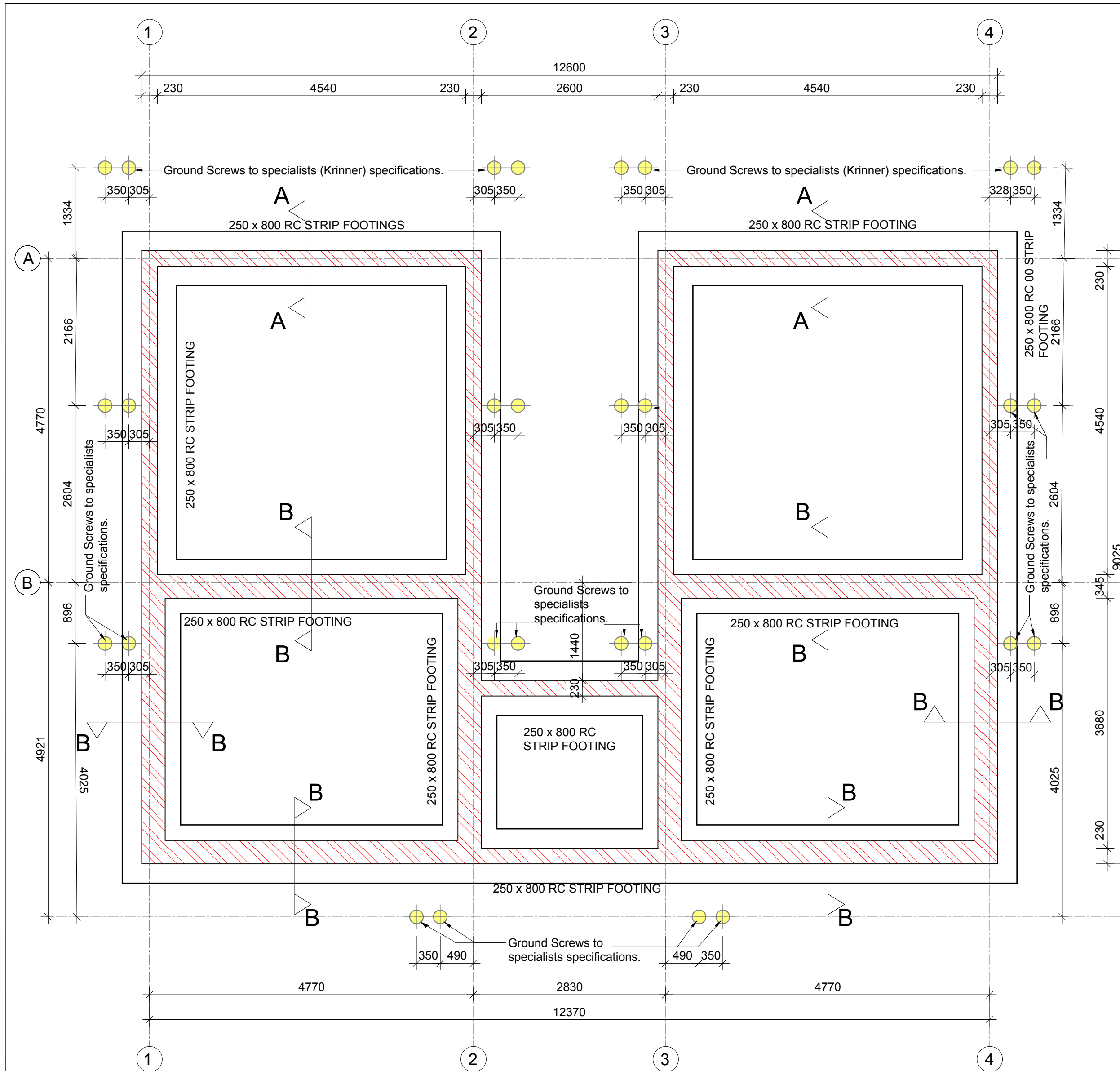
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S-10

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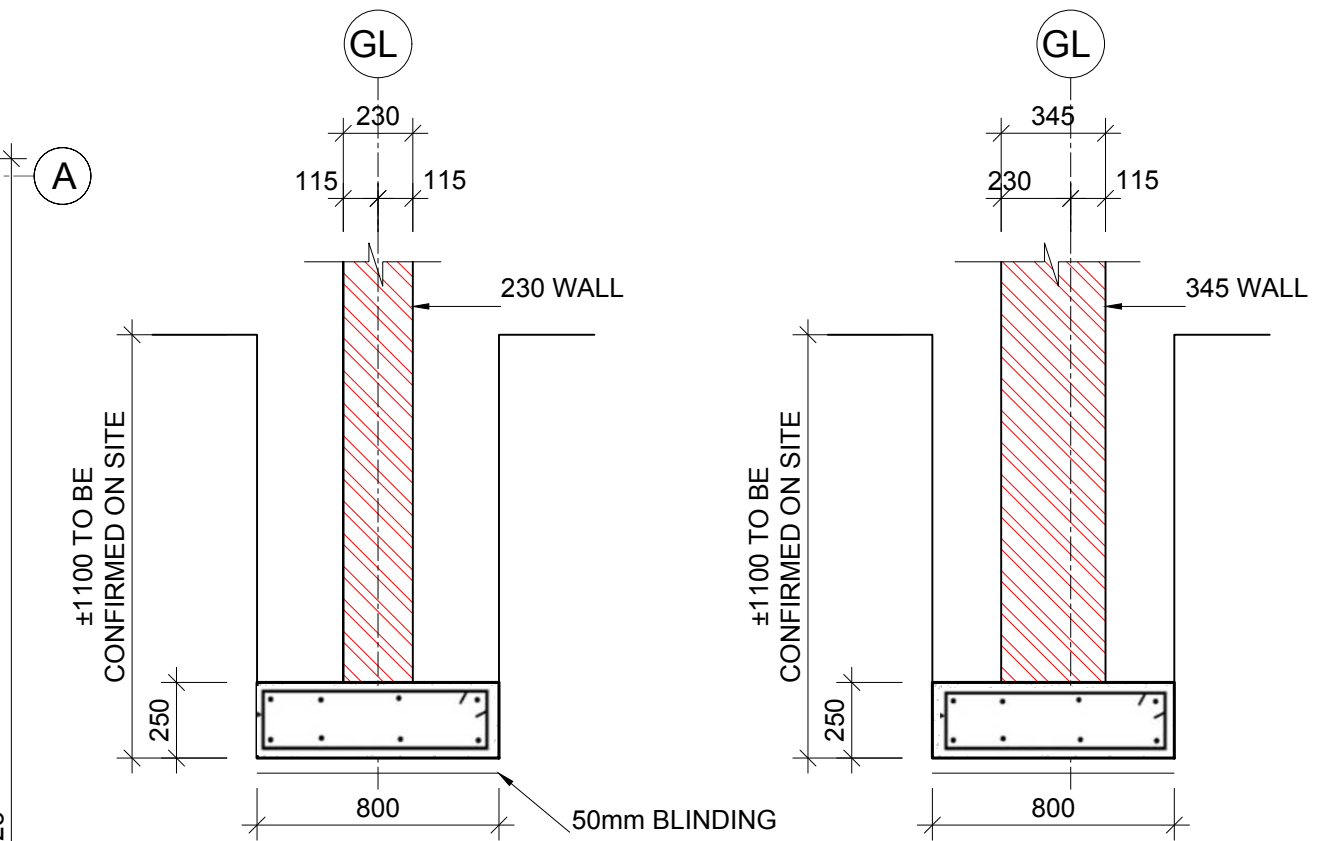
D9



ABLUTIONS FOUNDATION LAYOUT

Scale: 1:50

NOTE: GROUND SCREWS FOR FOUNDATION
BY KRINNER LUMAX SEE DETAIL OR
EQUIVALENT APPROVED.

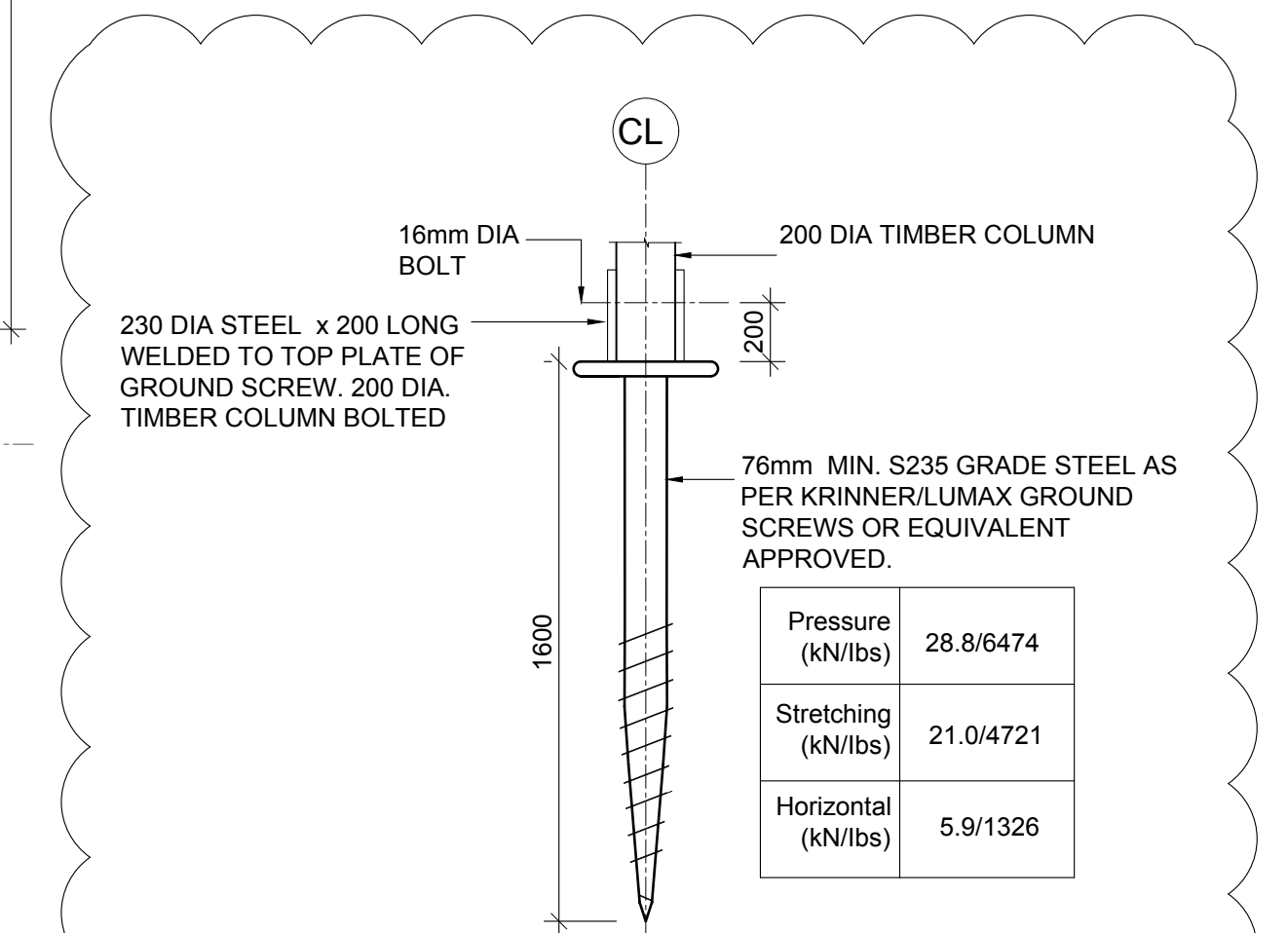


SECTION A - A

Scale: 1 : 25

SECTION B - B

Scale: 1 : 25



TYPICAL GROUND SCREW DETAIL

Scale: 1 : 25

Pressure (kN/lbs)	28.8/6474
Stretching (kN/lbs)	21.0/4721
Horizontal (kN/lbs)	5.9/1326

Zimbabwe Idai Recovery
Project

Jopa Women's Market

Ablutions
Foundation Layout
& Section

Project no. REQ-ZIM 2021-117

Date 15/12-2021

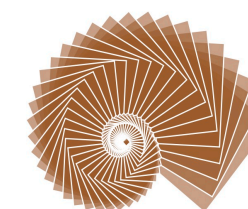
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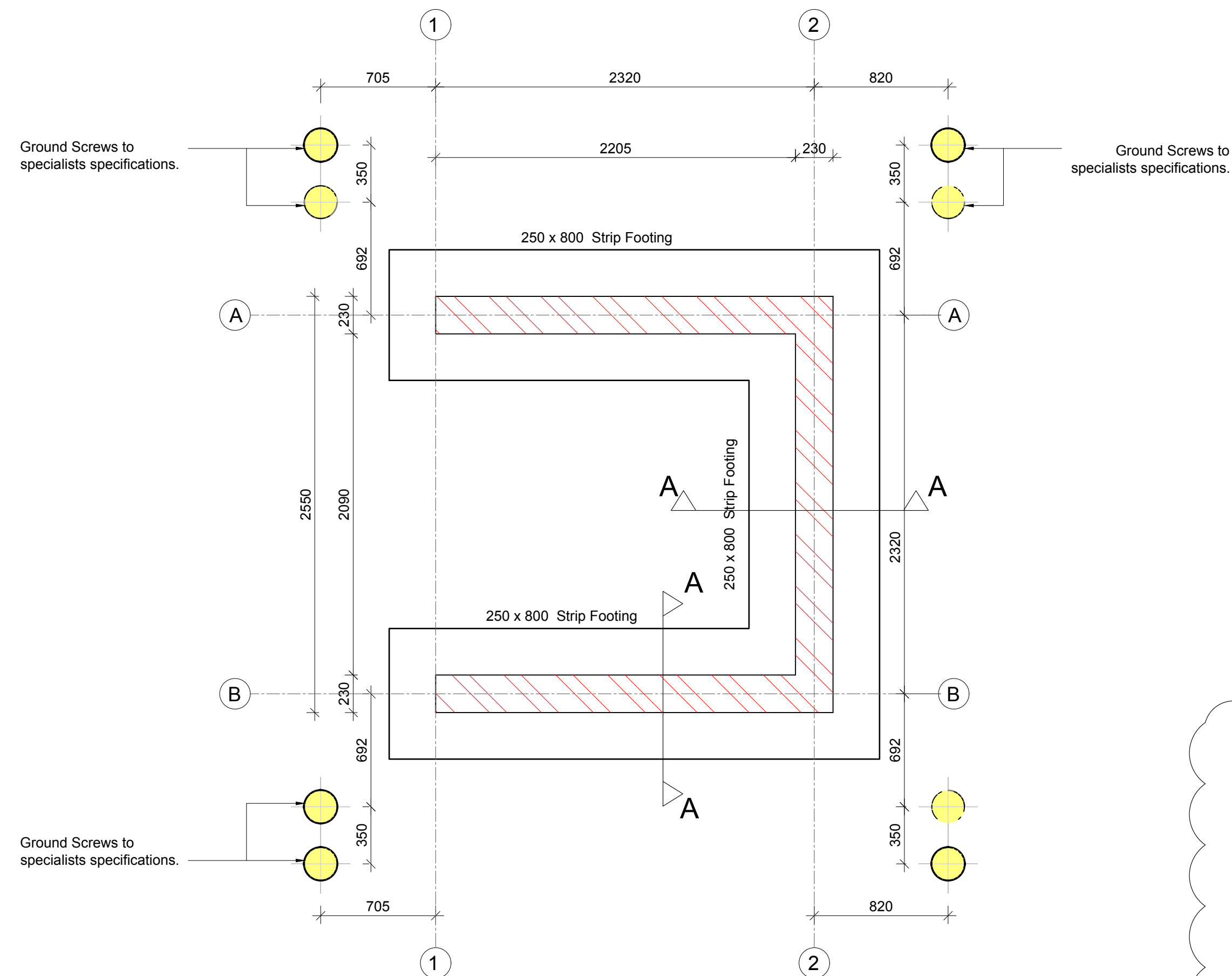
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Scale	As indicated
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D8



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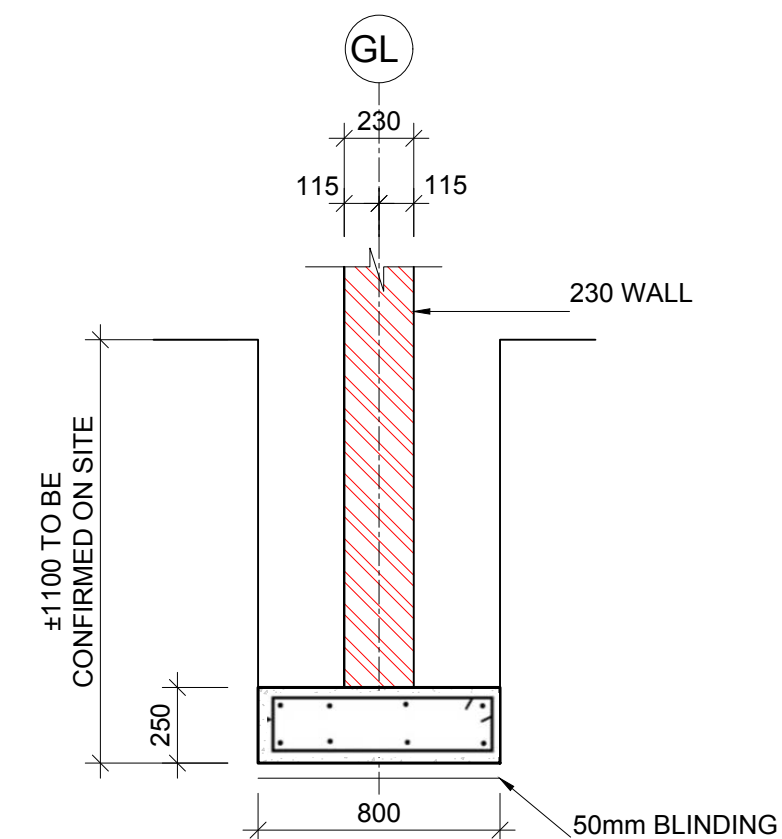


COOKING HUT FOUNDATION LAYOUT

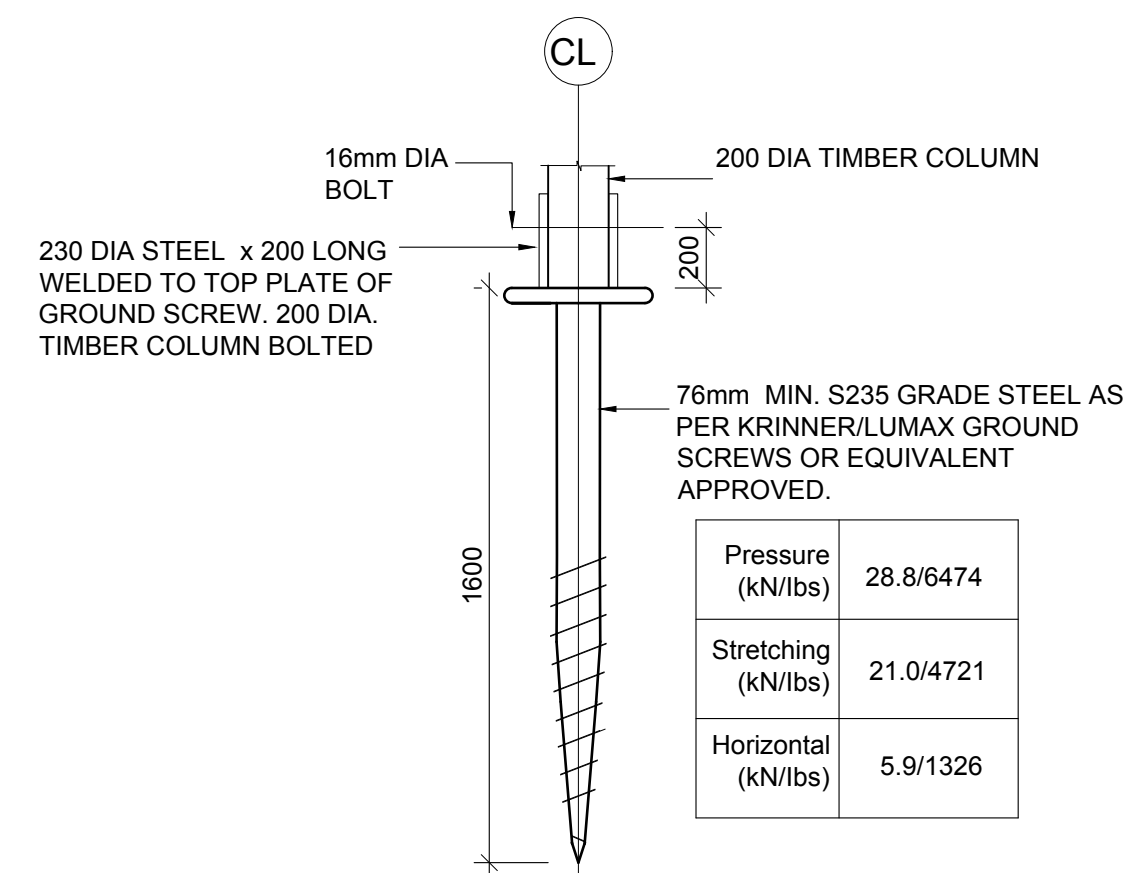
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NOTE: GROUND SCREWS FOR FOUNDATION BY KRINNER LUMAX SEE DETAIL OR EQUIVALENT APPROVED.

D2



SECTION A - A



TYPICAL GROUND SCREW DETAIL

Scale: 1 : 25

D2

Zimbabwe Idai Recovery Project

Jopa Women's Market

Cooking Hut Foundation Layout & Section

Project no. REQ-ZIM 2021-117

Date 15/12-2021

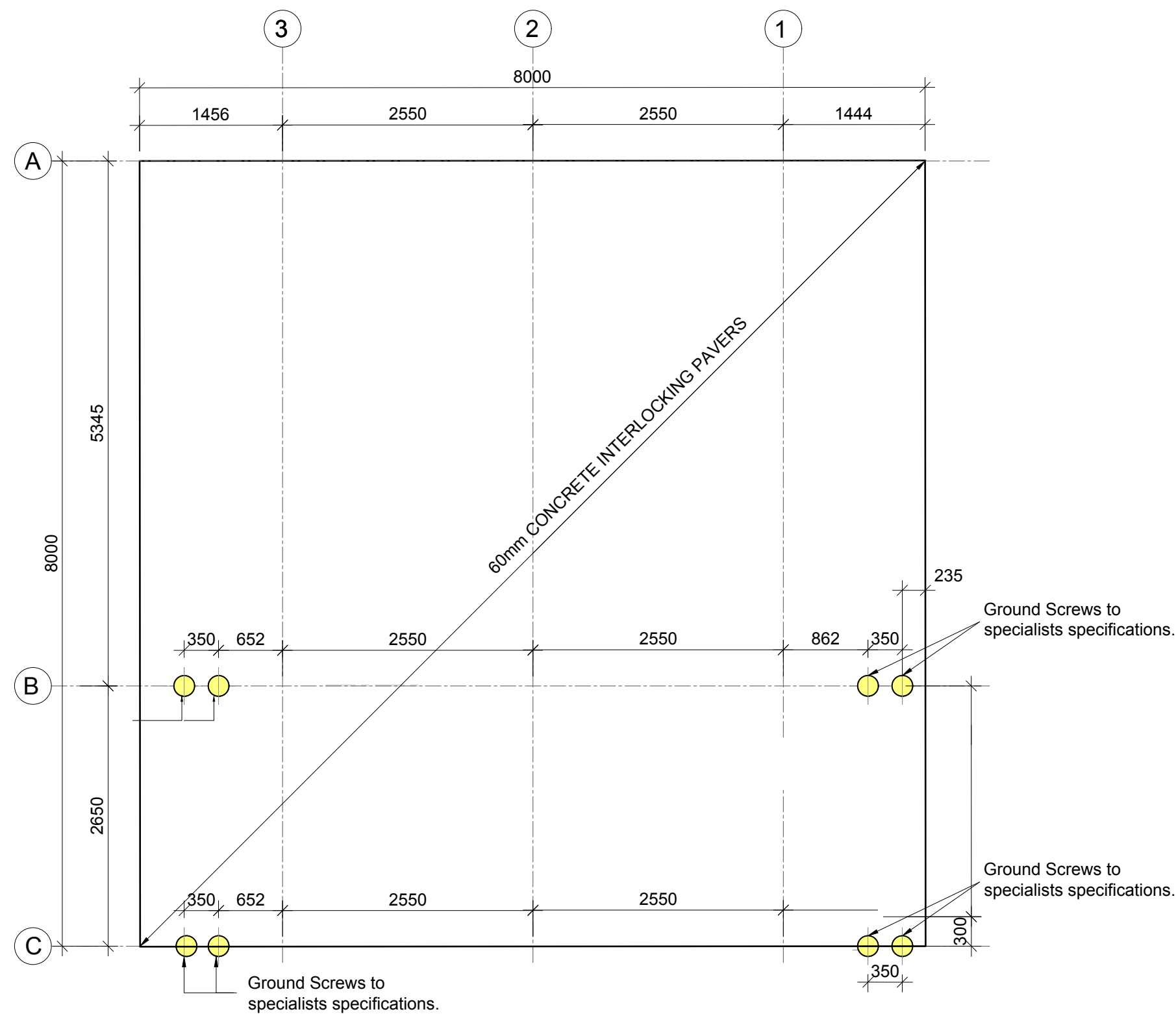
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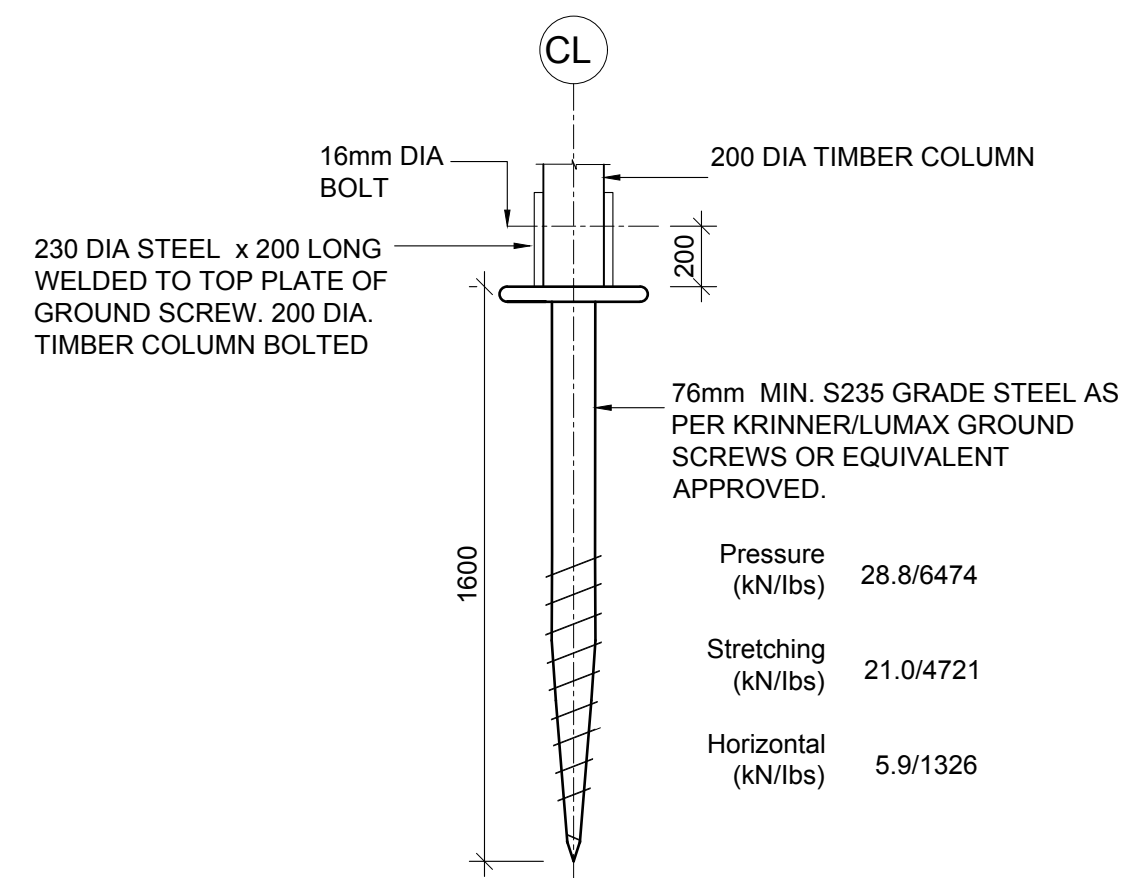
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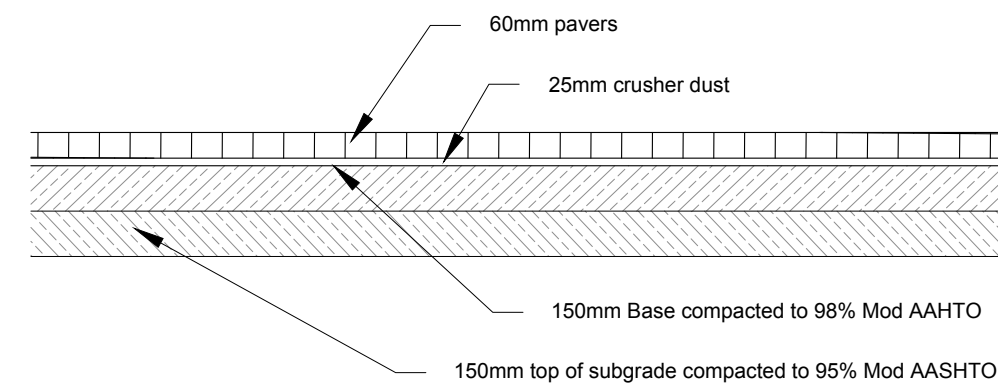


SOLID WASTE FOUNDATION LAYOUT
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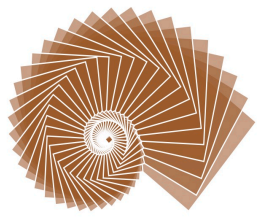
NOTE: GROUND SCREWS FOR FOUNDATION TO BY KRINNER LUMAX SEE DETAIL OR EQUIVALENT APPROVED.



TYPICAL GROUND SCREW DETAIL
Scale: 1 : 25



TYPICAL SECTION FOR 60mm CONCRETE PAVERS
SCALE 1:10



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Zimbabwe Idai Recovery Project
Jopa Women's Market

Solid Waste Foundation Layout & Details

Project no. REQ-ZIM 2021-117

Date 15/12-2021

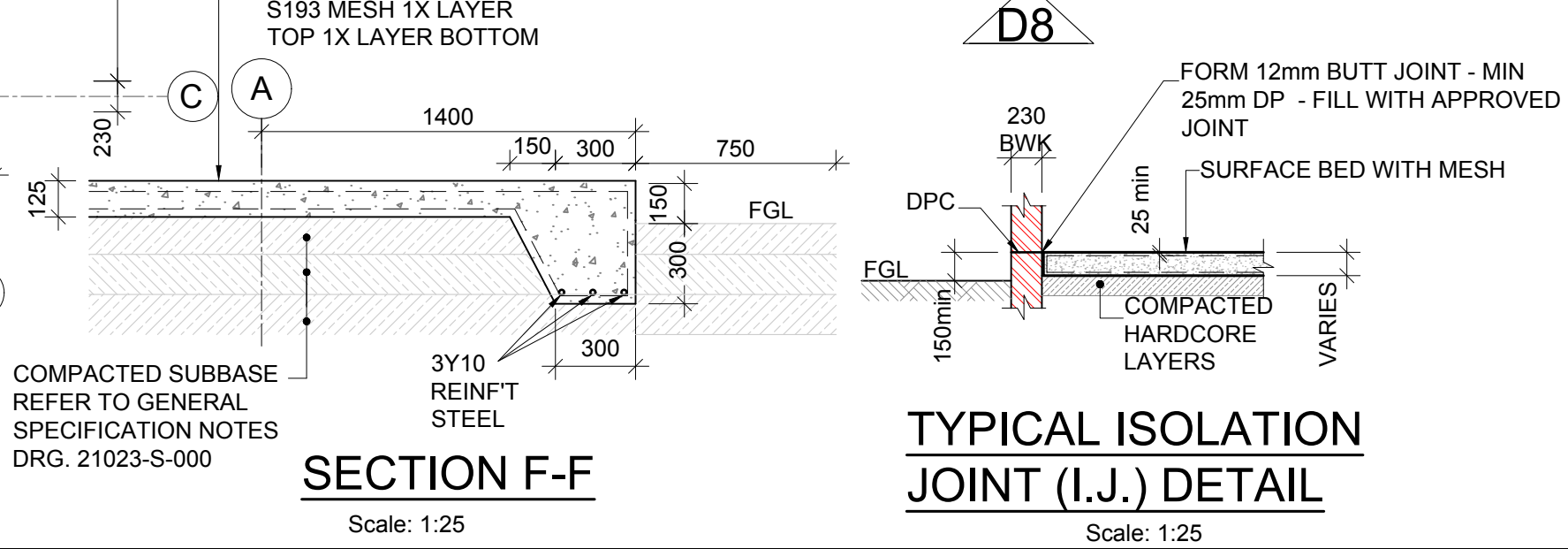
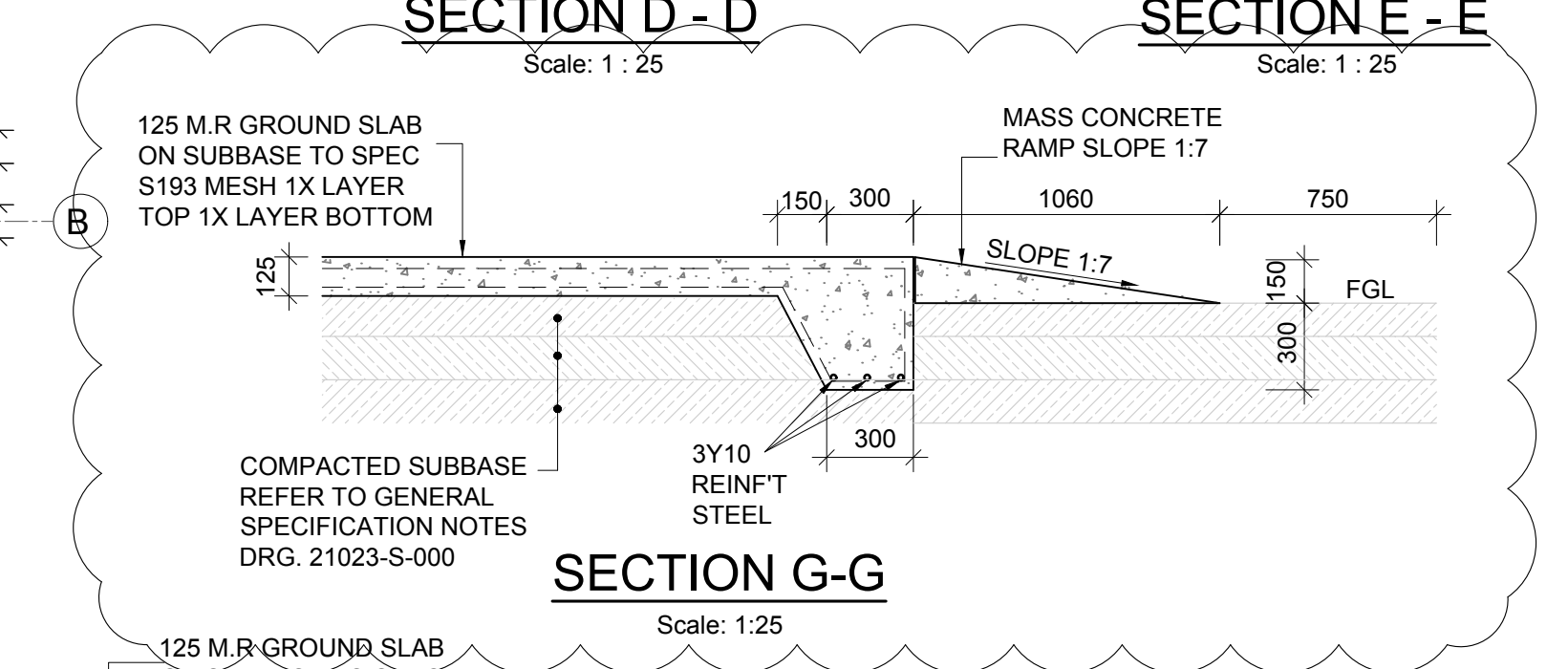
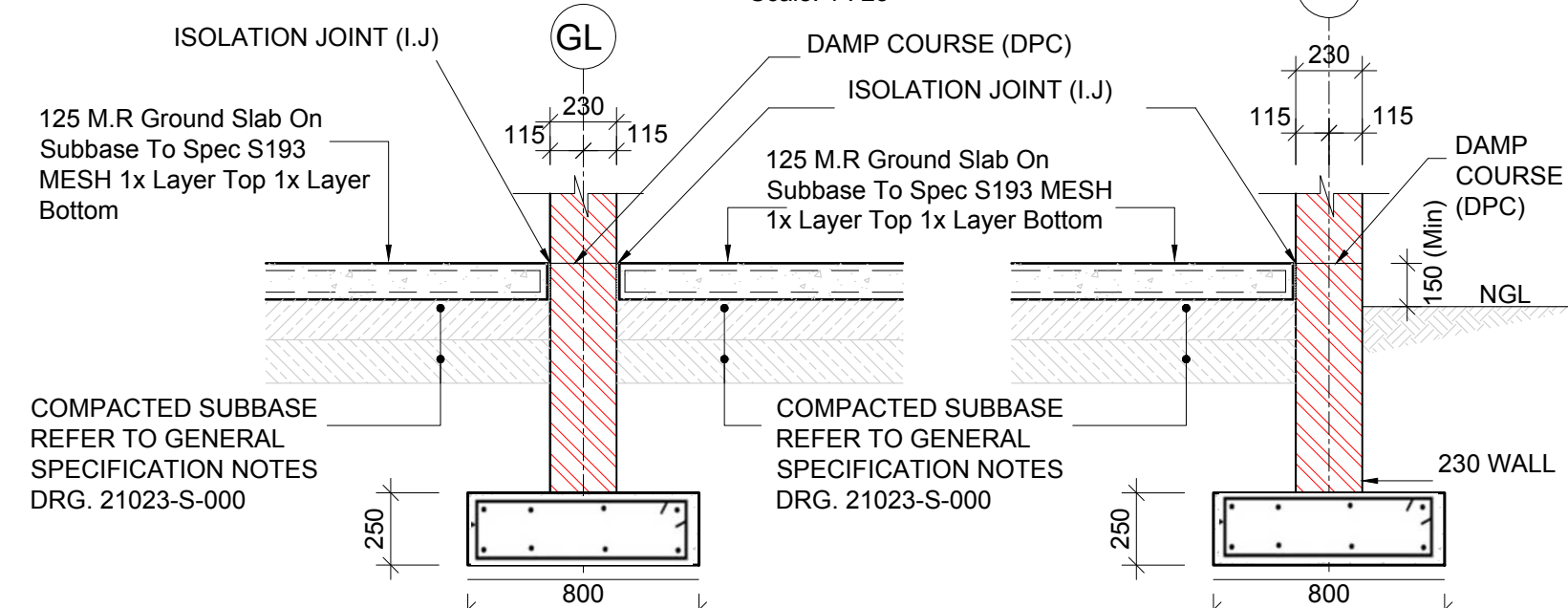
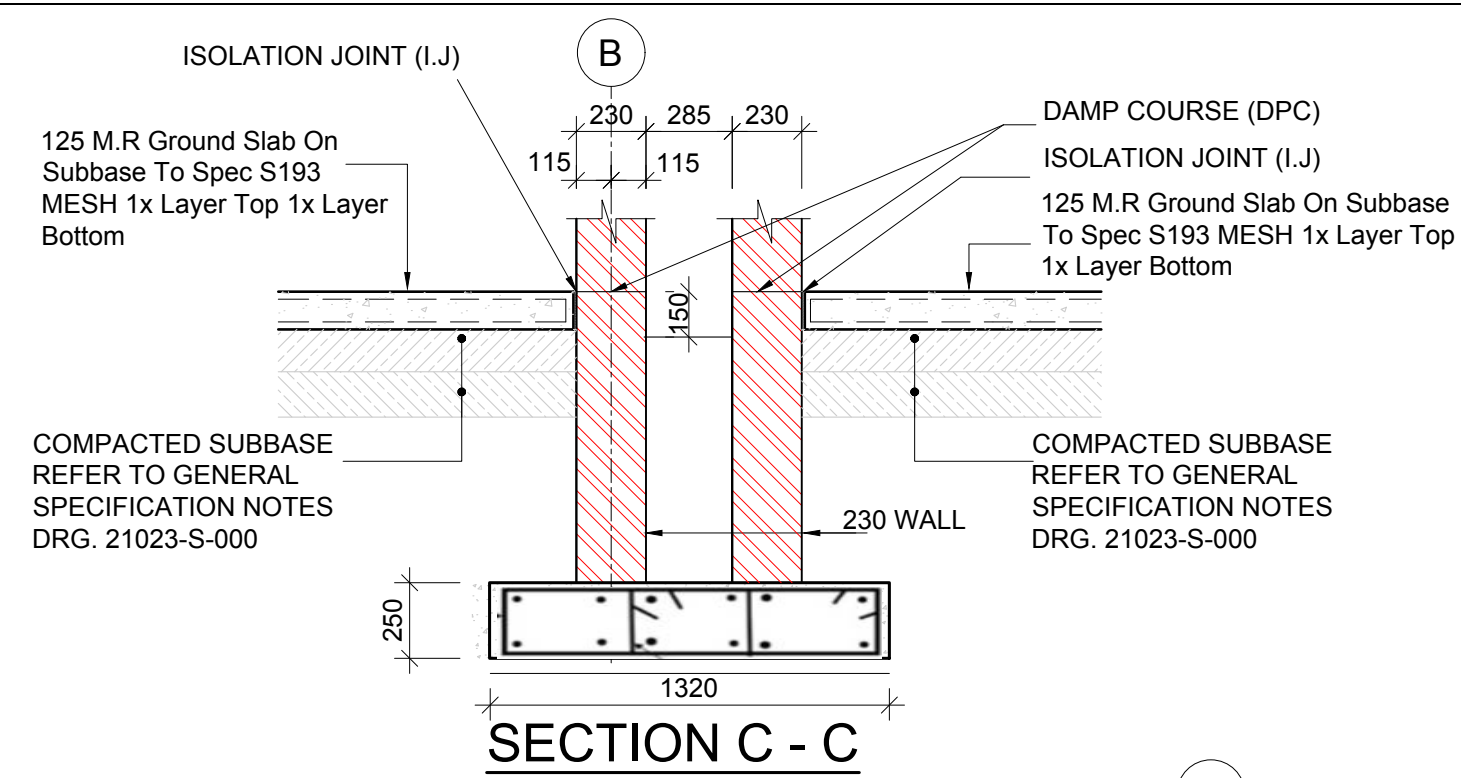
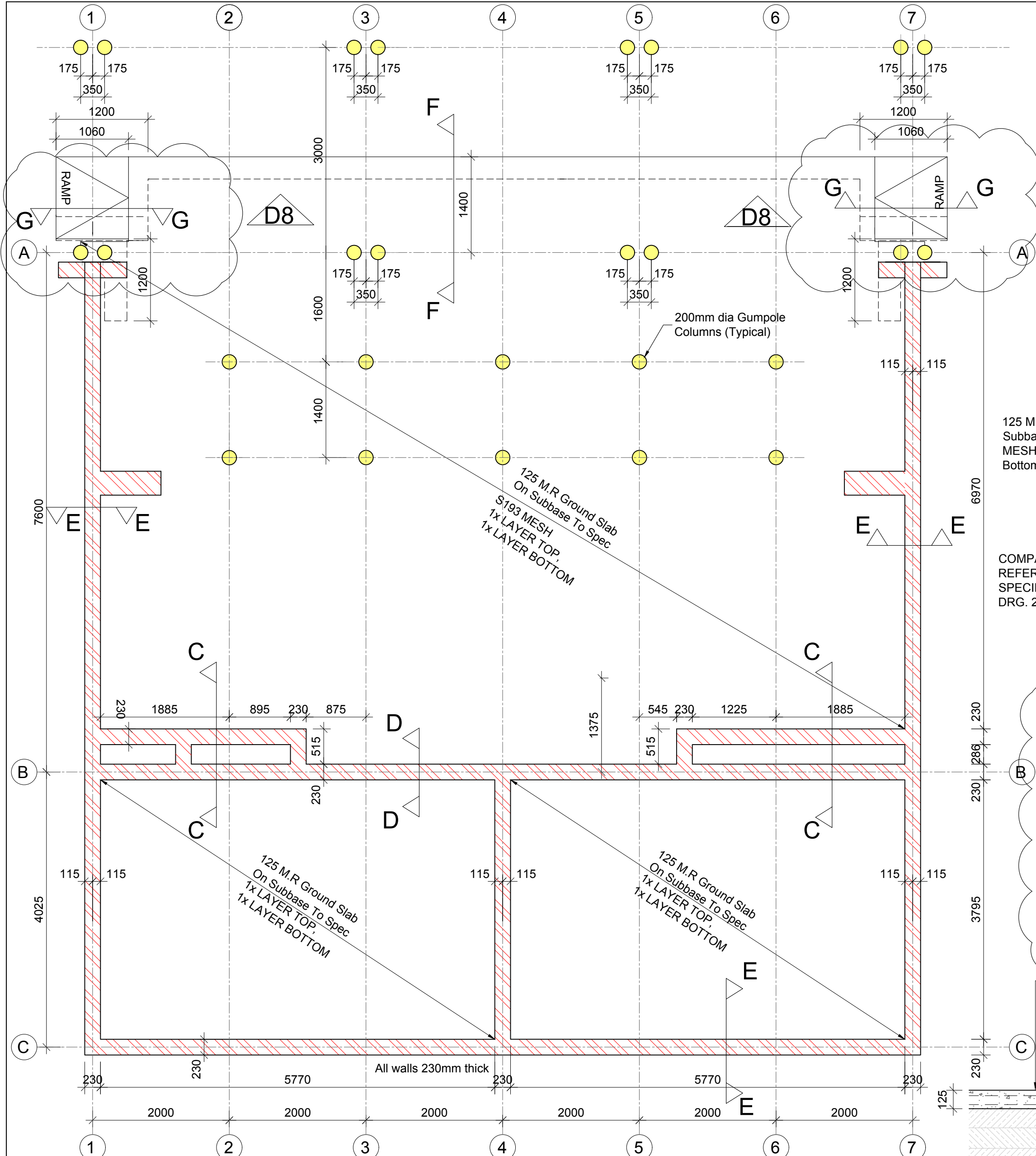
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Scale As indicated

D1



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Zimbabwe Idai Recovery Project

Jopa Women's Market

Large Stalls - Groundfloor Layout & Sections

Project no. REQ-ZIM 2021-117

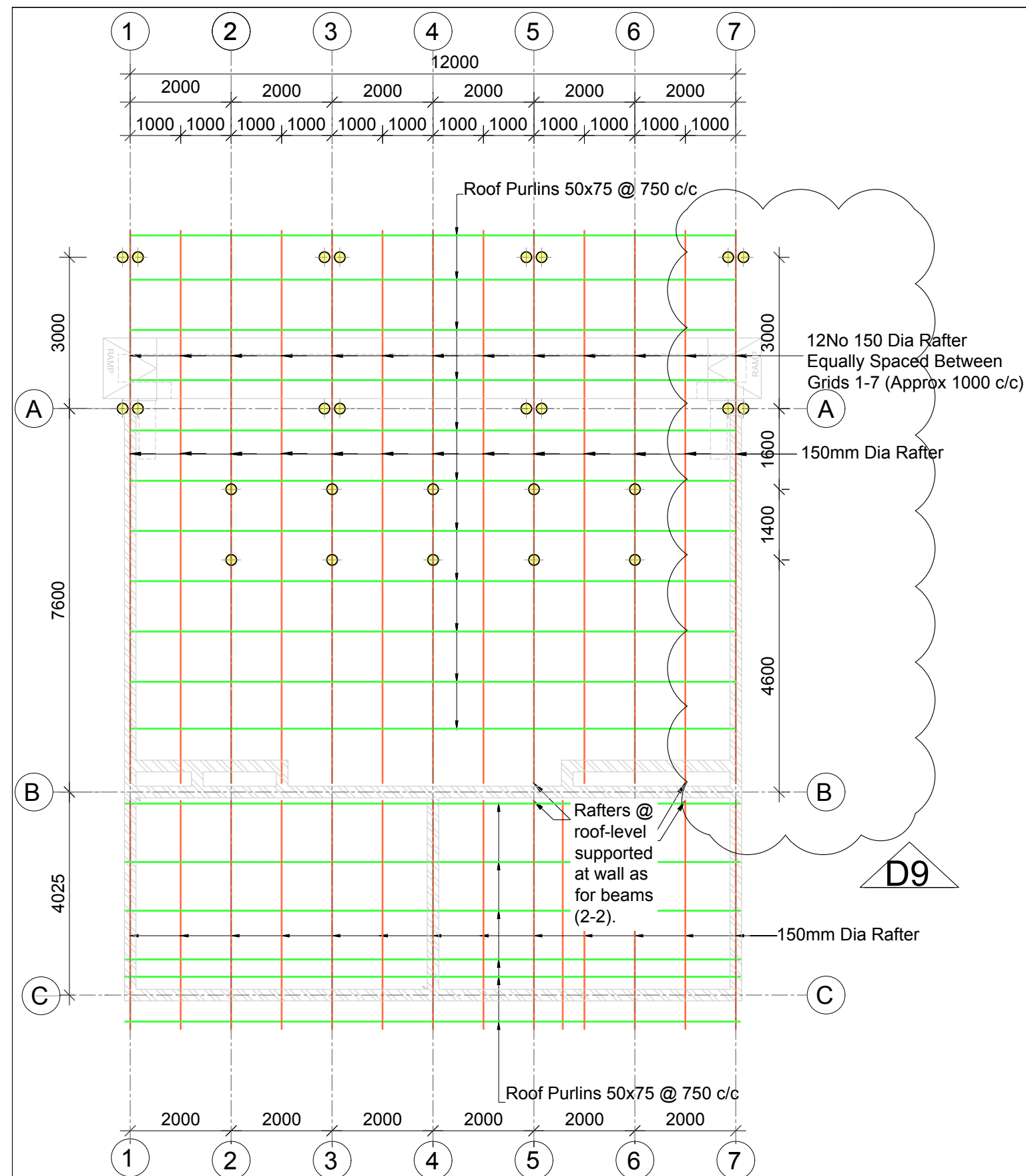
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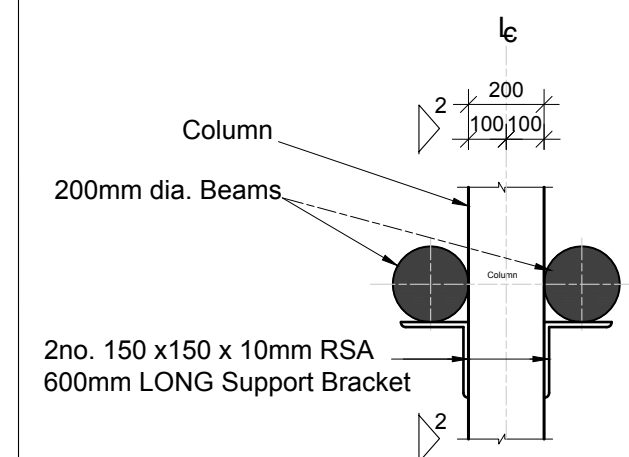
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Scale As indicated D8



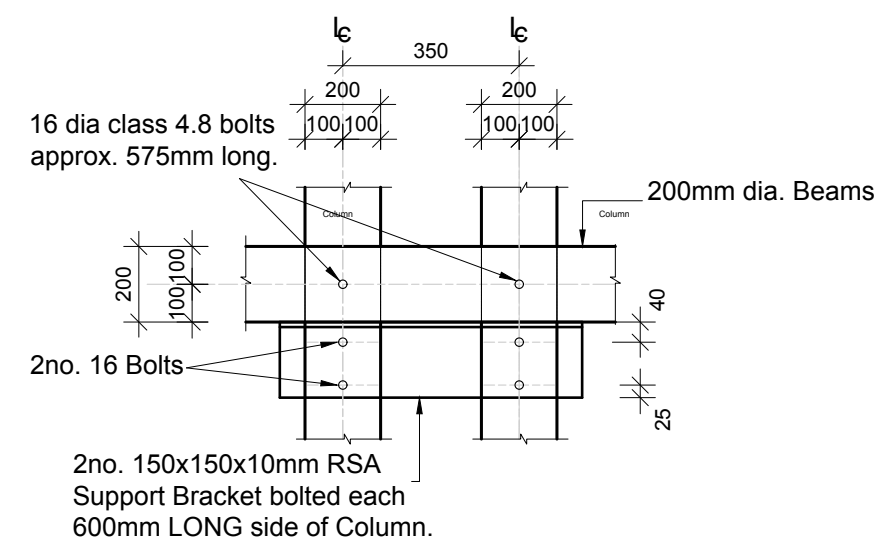
LARGE MARKET STALLS RAFTER & PURLINS ROOF LAYOUT

Scale: 1:100



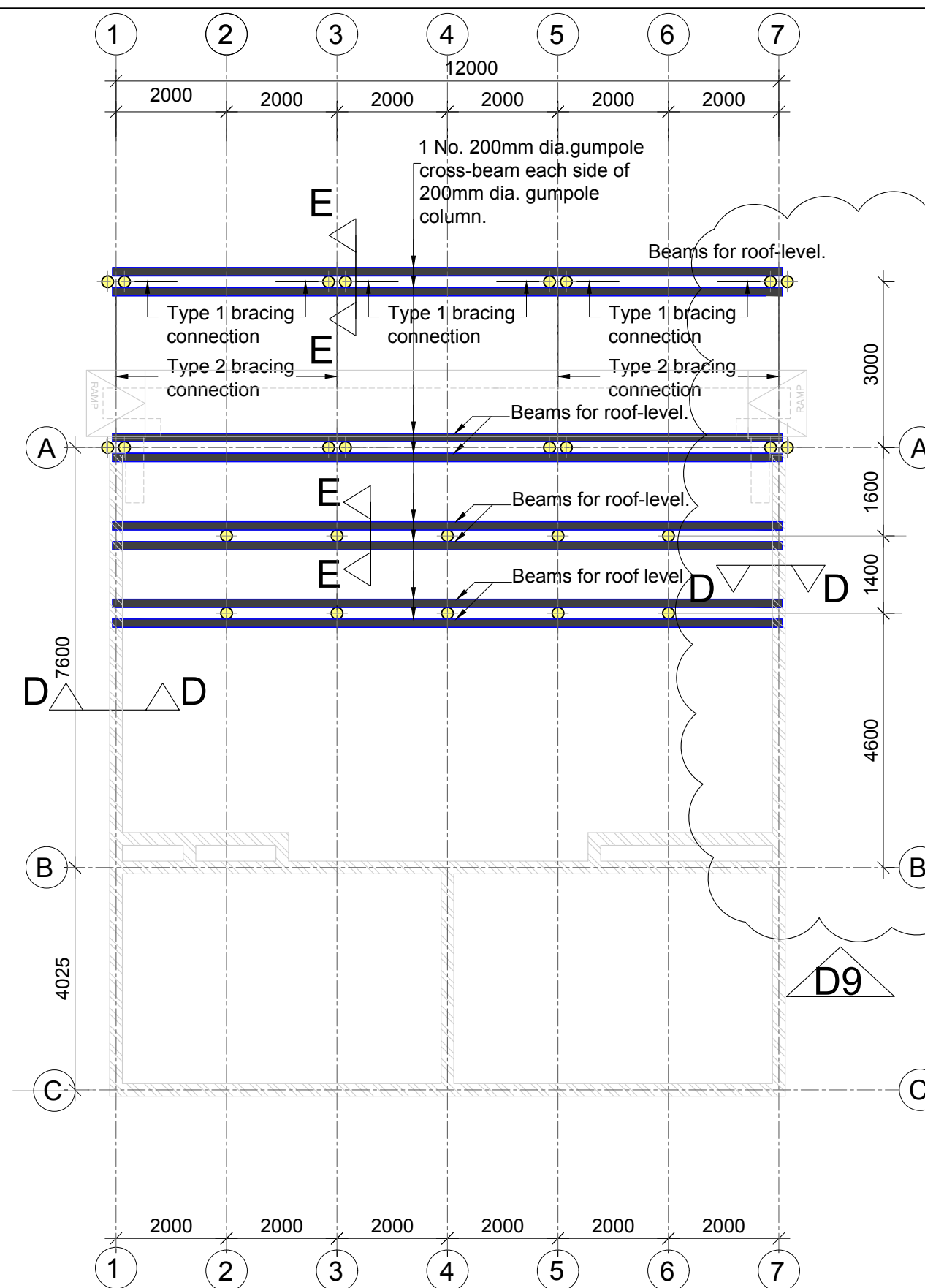
SECTION E-E

Scale 1:15



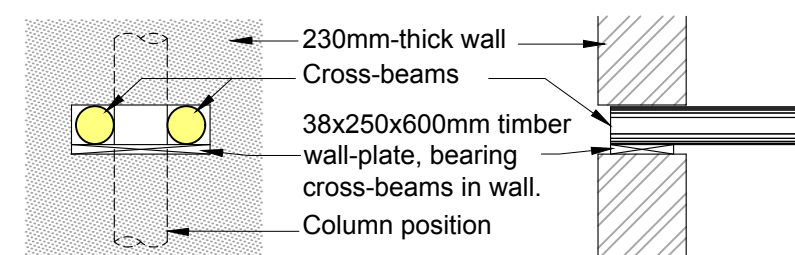
ELEVATION 2-2

Scale 1:15



LARGE MARKET STALLS BEAMS AT ROOF-LEVEL RAFTERS

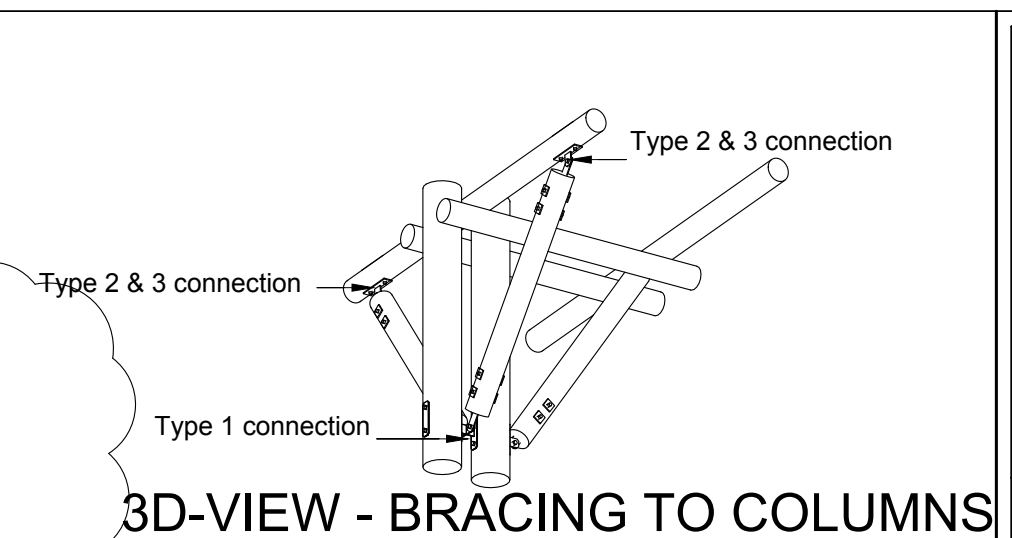
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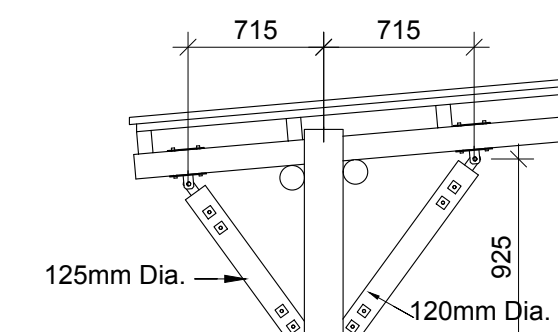
Elevation on wall

Section D-D (through wall)

SUPPORT DETAIL TO CROSSBEAMS

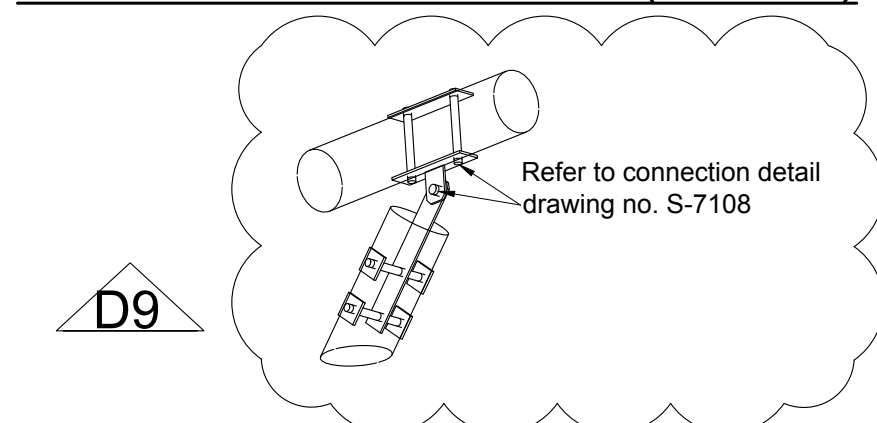


3D-VIEW - BRACING TO COLUMNS

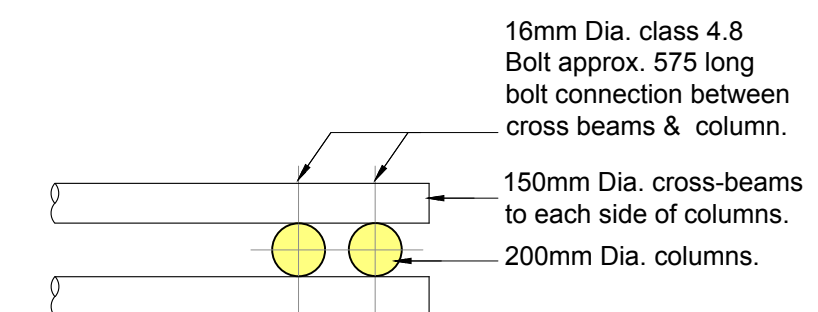


BRACING TO COLUMNS

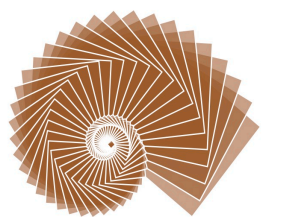
BRACING TO COLUMNS (TYPE 1)



BRACING (TYPE 2 & 3)



CROSS-BEAMS CONNECTION TO COLUMNS PLAN-VIEW



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Zimbabwe Idai Recovery Project

Jopa Women's Market

Large Stalls - Roof Rafters, Purlins, Beams, Sections & Details

Project no. REQ-ZIM 2021-117

Date 15/12-2021

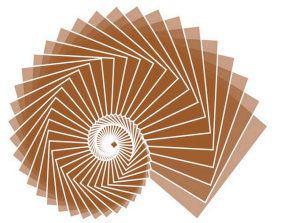
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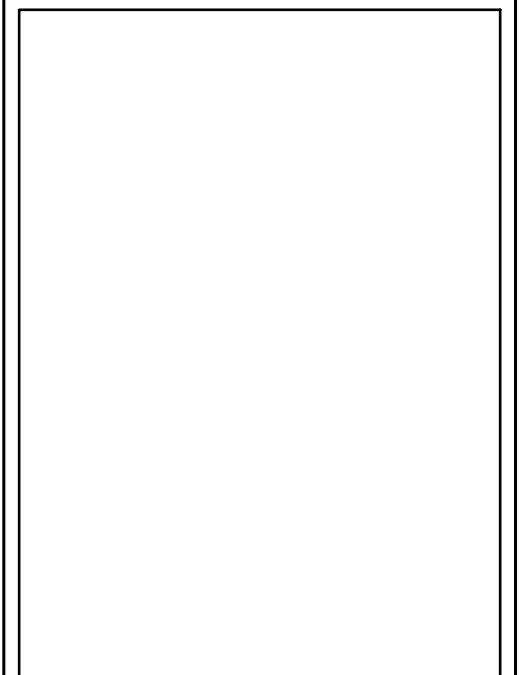
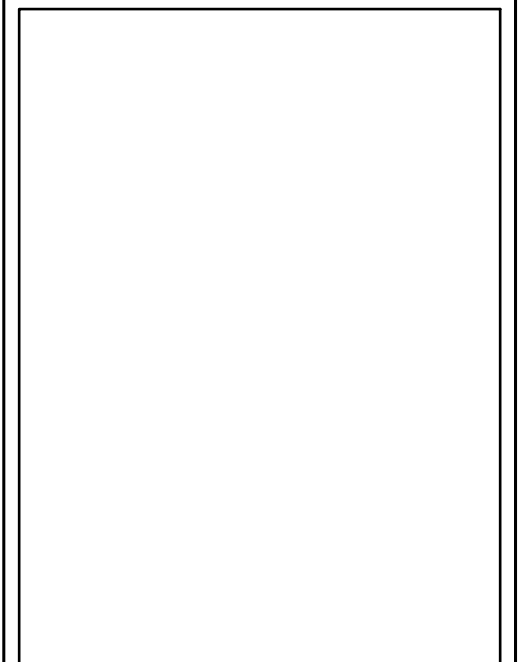
Scale As indicated

D9



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Zimbabwe Idai Recovery Project

Jopa Women's Market

Trader Stalls -
Groundfloor Layout & Sections

Project no. REQ-ZIM 2021-117

Date 15/12-2021

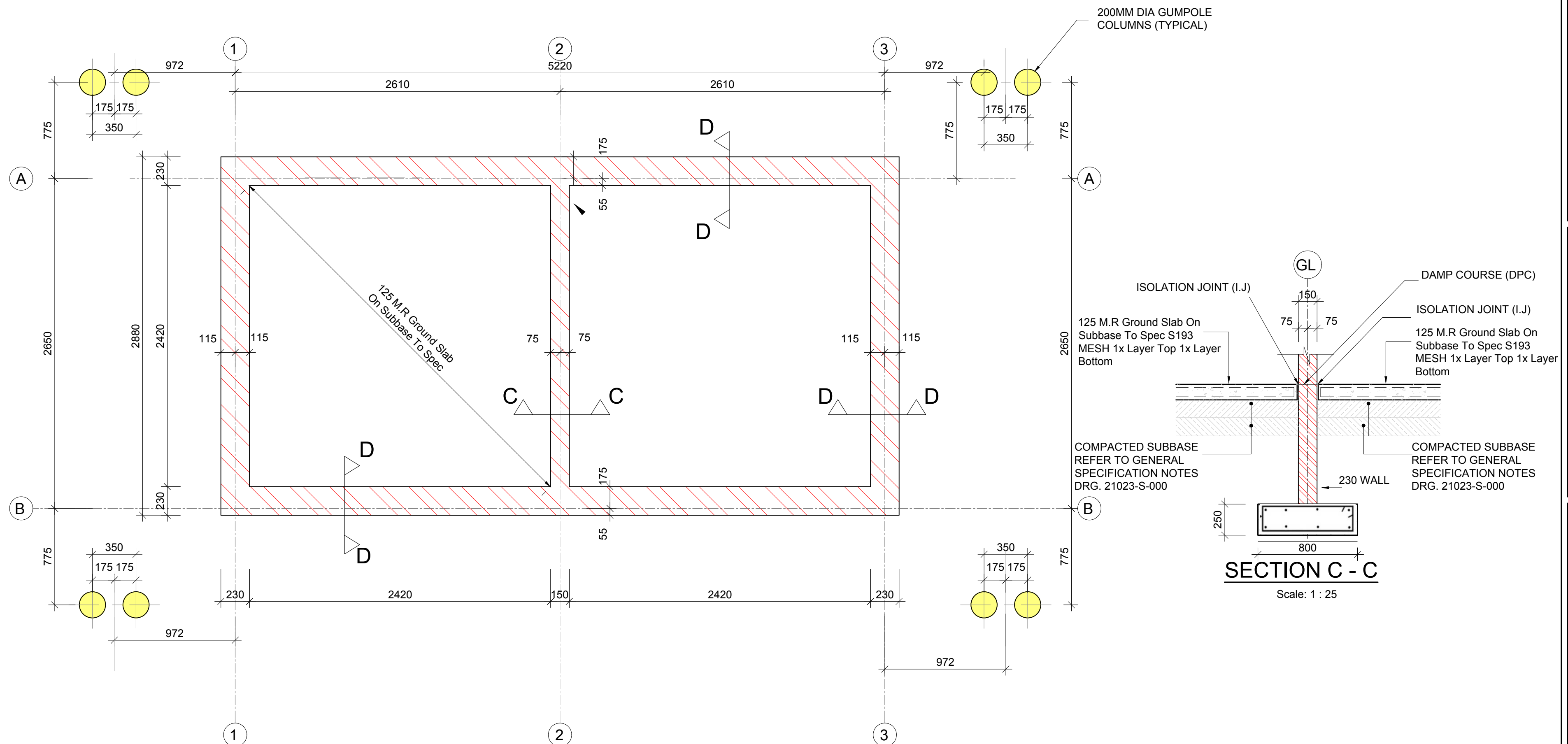
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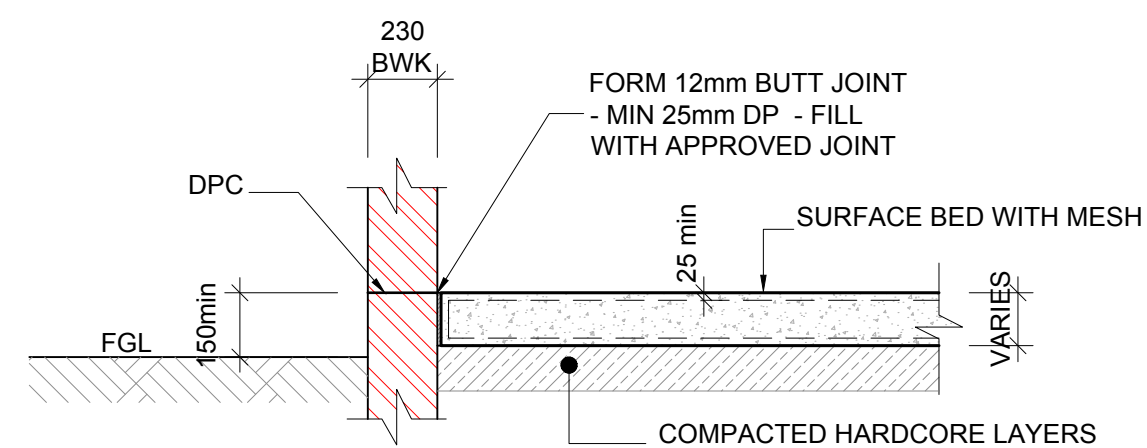
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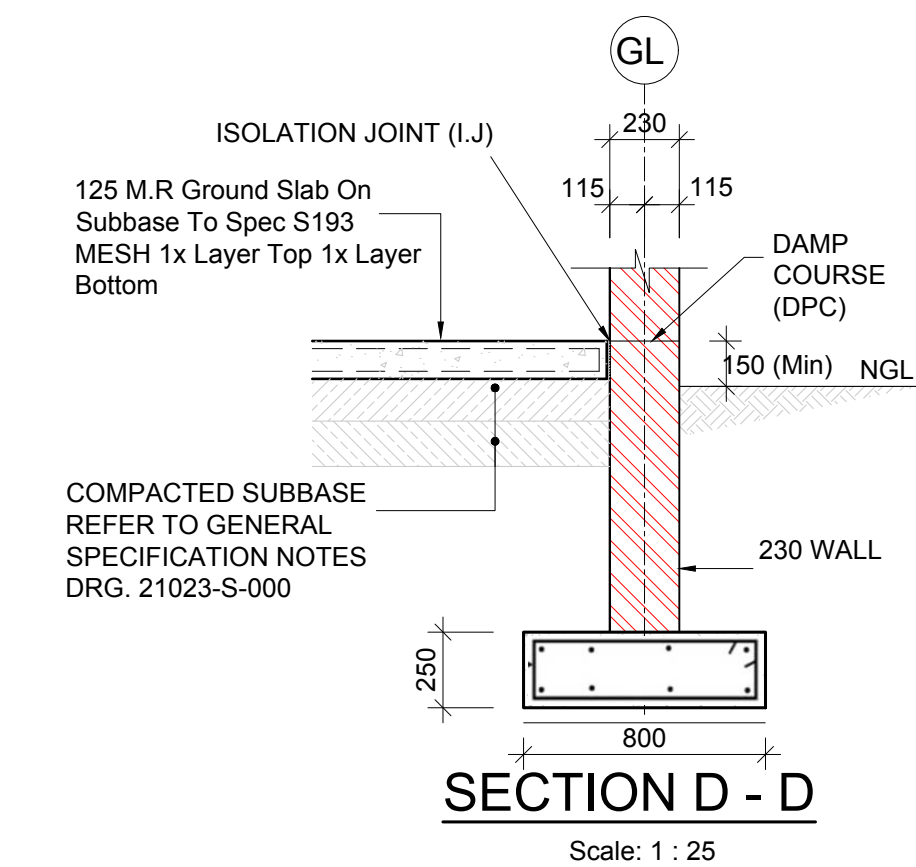
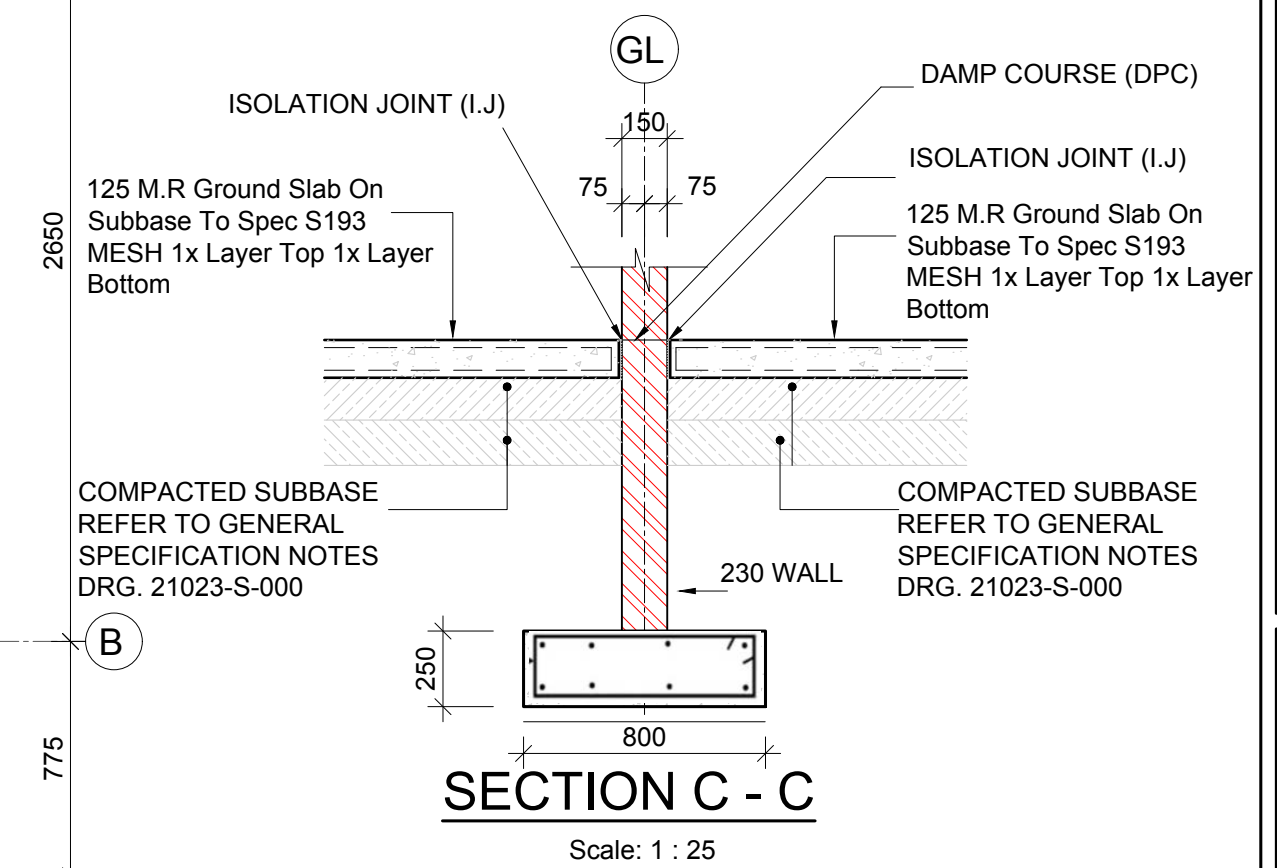
TRADER STALLS GROUND FLOOR SLAB LAYOUT

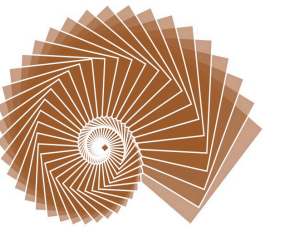
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TYPICAL ISOLATION JOINT (I.J.) DETAIL

Scale: 1:25





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Zimbabwe Idai Recovery
Project

Jopa Women's Market

Trader Stalls -
Raft & Purlins Roof Layout

Project no. REQ-ZIM 2021-117

Date 15/12-2021

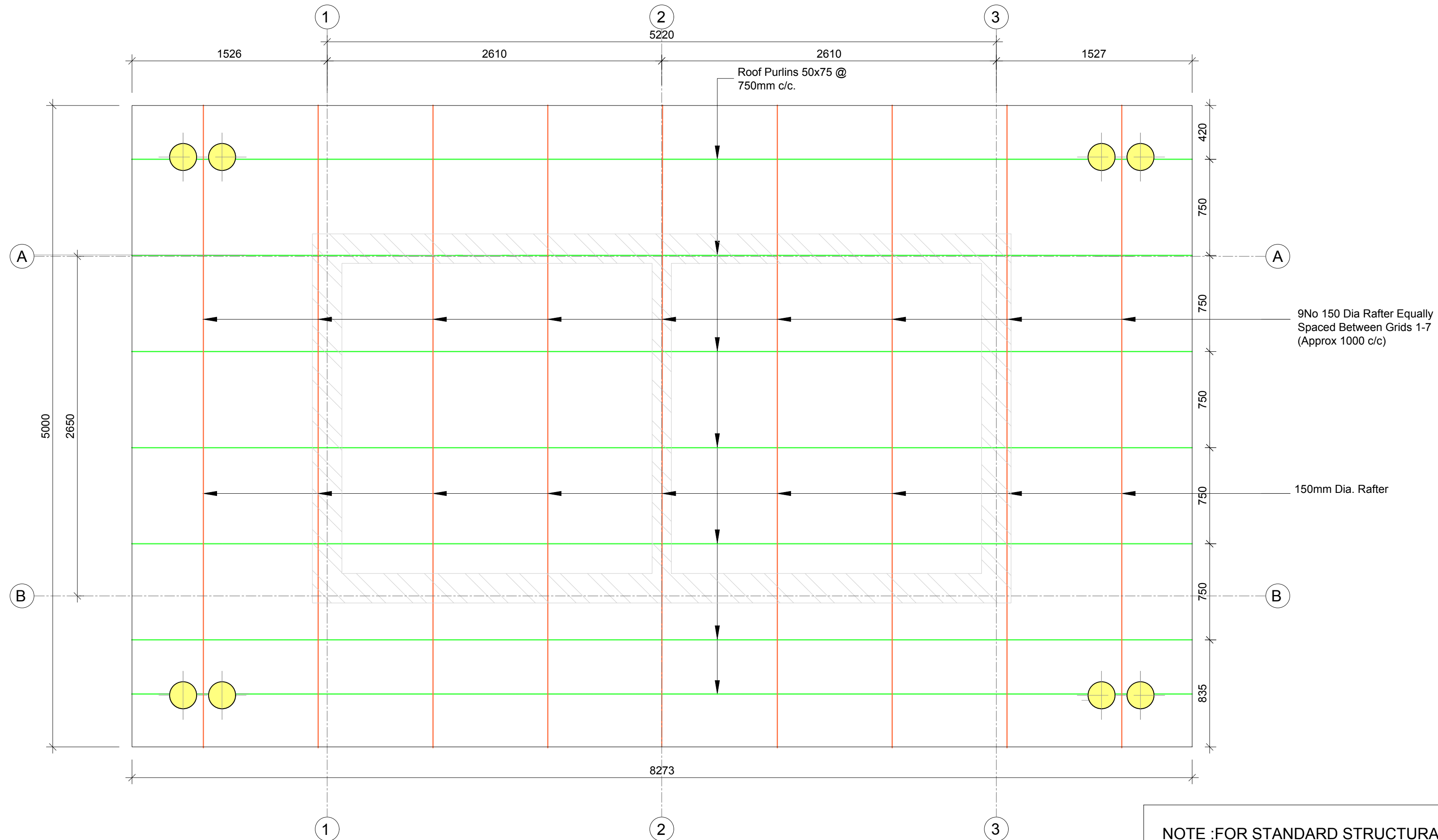
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S-210

Scale As indicated

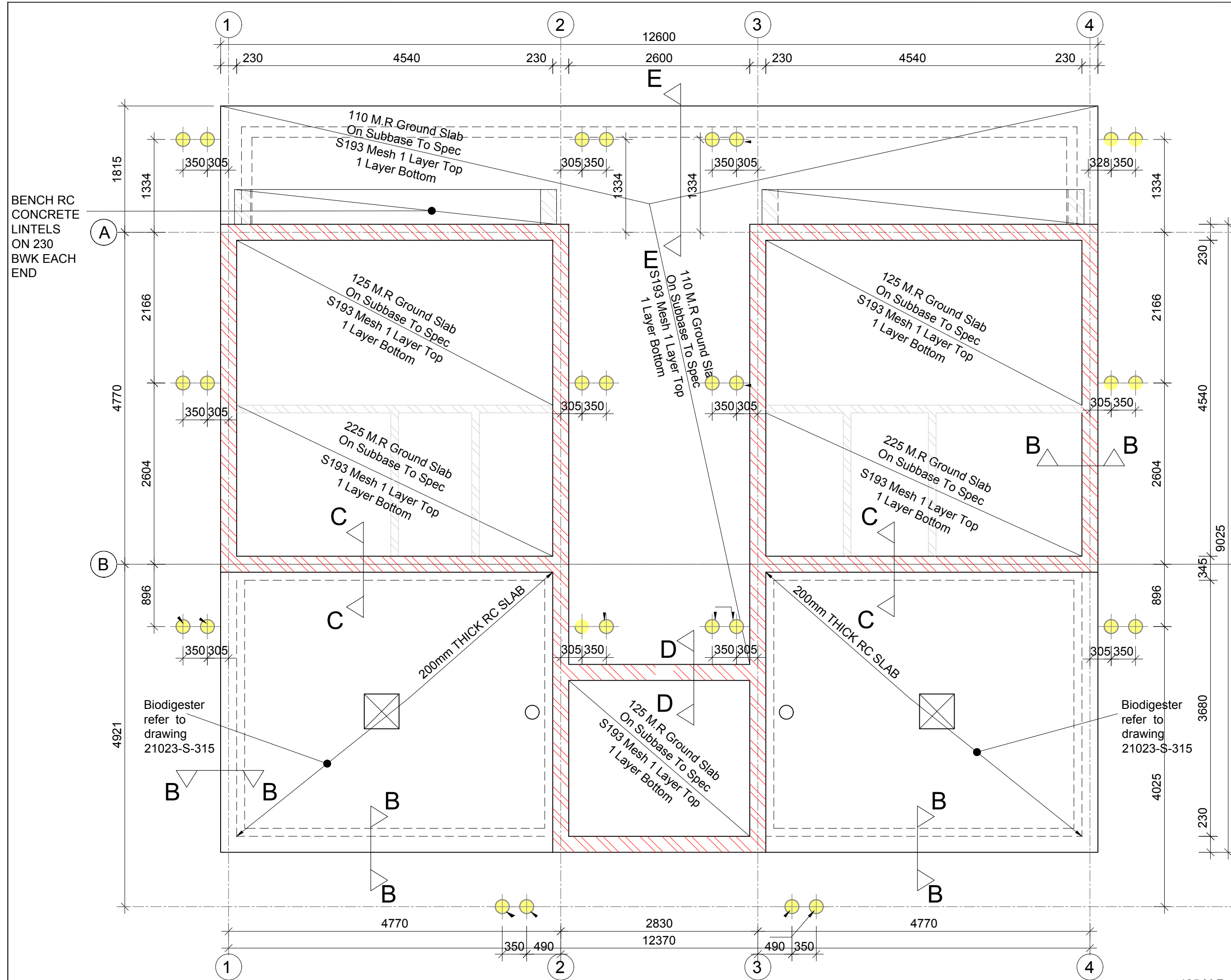
D8



TRADER STALLS RAFTER & PURLIN ROOF LAYOUT

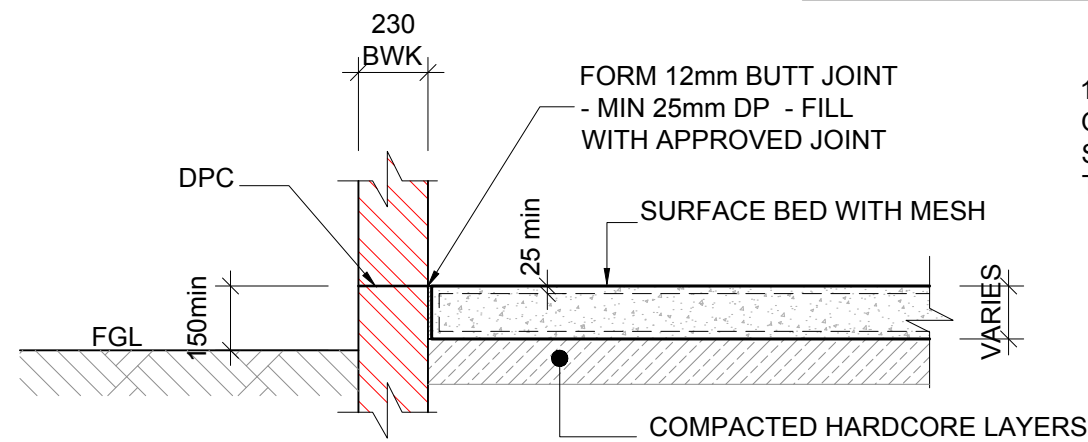
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NOTE :FOR STANDARD STRUCTURAL
NOTES REFER TO DRAWING NUMBER
21023 - S-000 FOR COLUMN BRACING
REFER TO DRAWING NO. S - 7108.



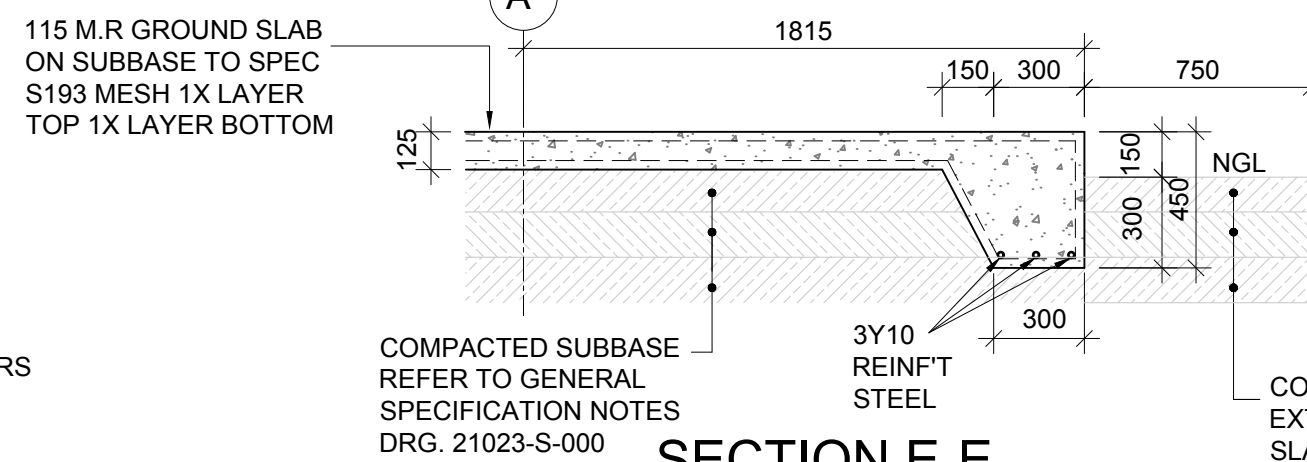
ABLUTIONS GROUND FLOOR SLAB LAYOUT

Scale: 1:50



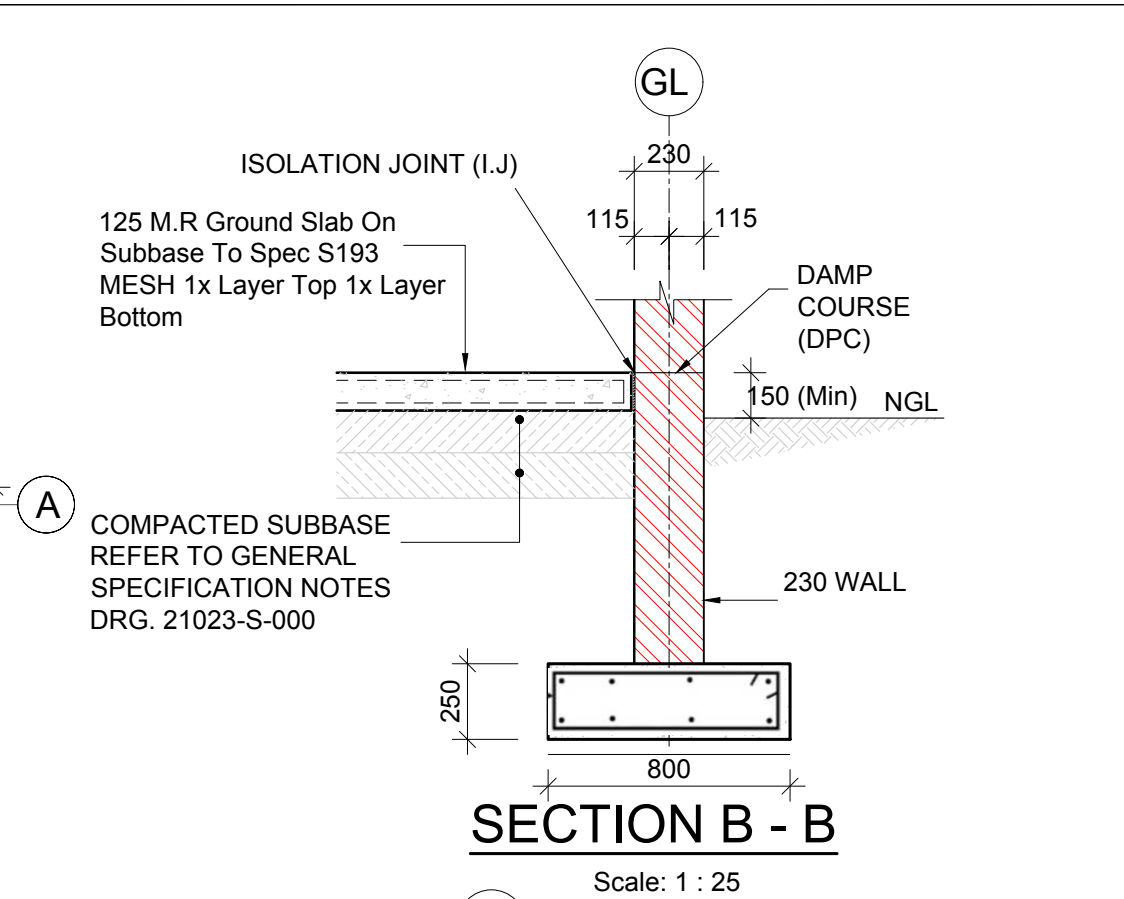
TYPICAL ISOLATION JOINT (I.J.) DETAIL

Scale: 1:25



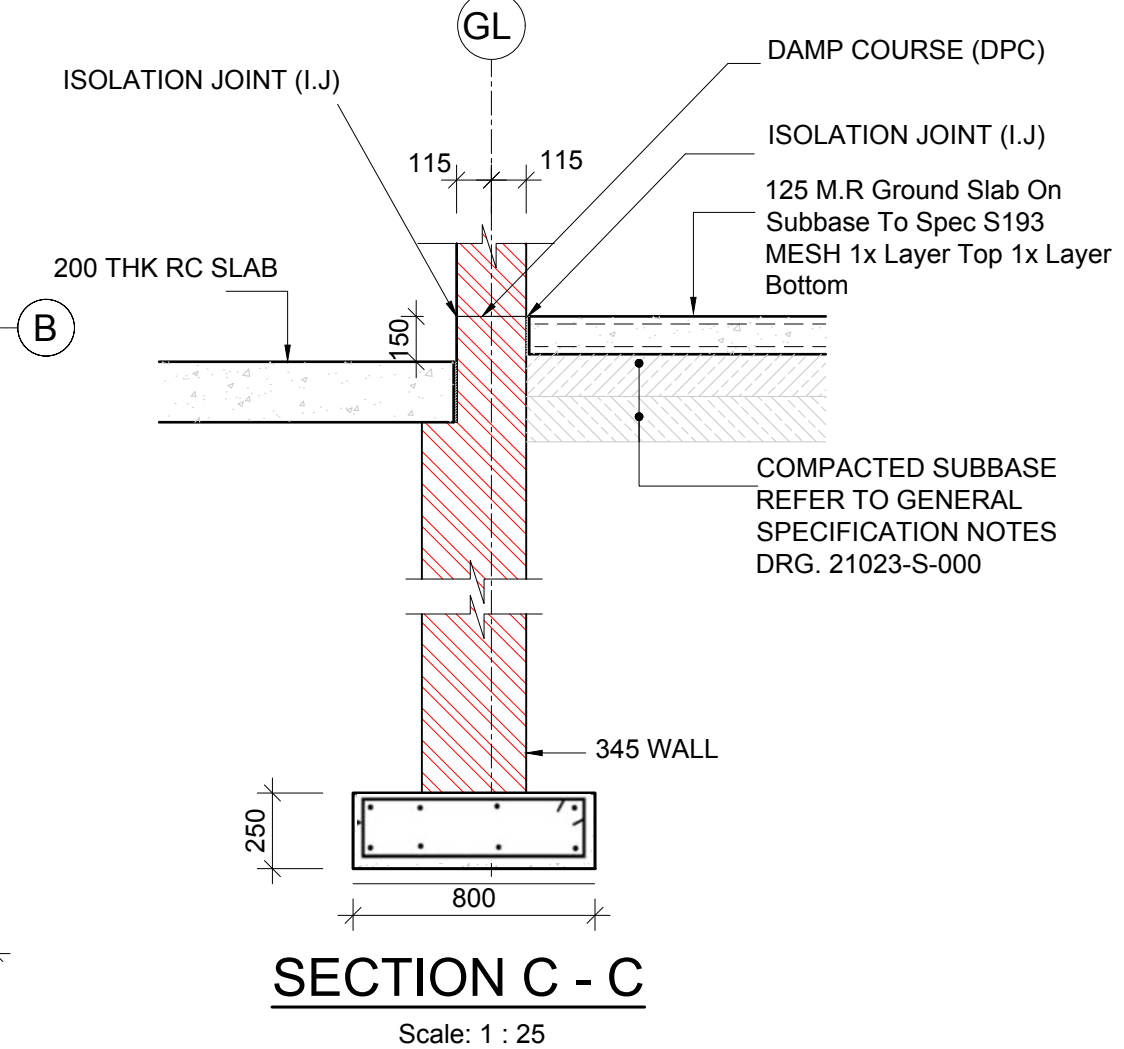
SECTION E-E

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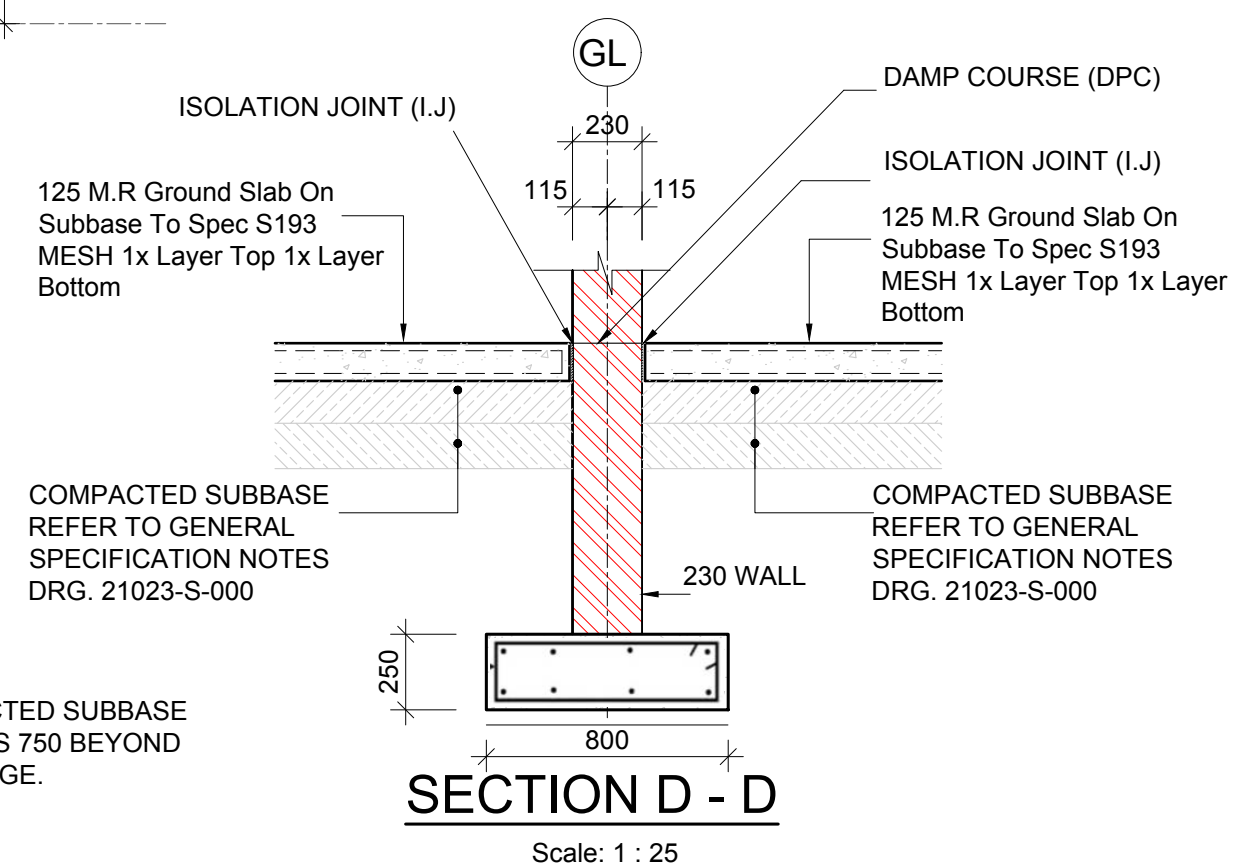
SECTION B - B

Scale: 1 : 25



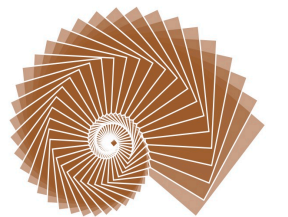
SECTION C - C

Scale: 1 : 25



SECTION D - D

Scale: 1 : 25



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Zimbabwe Idai Recovery Project

Jopa Women's Market

Ablutions
Ground Floor Slab Layout
& Section

Project no. REQ-ZIM 2021-117

Date 15/12-2021

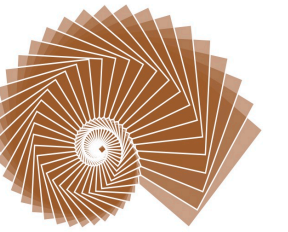
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S-300

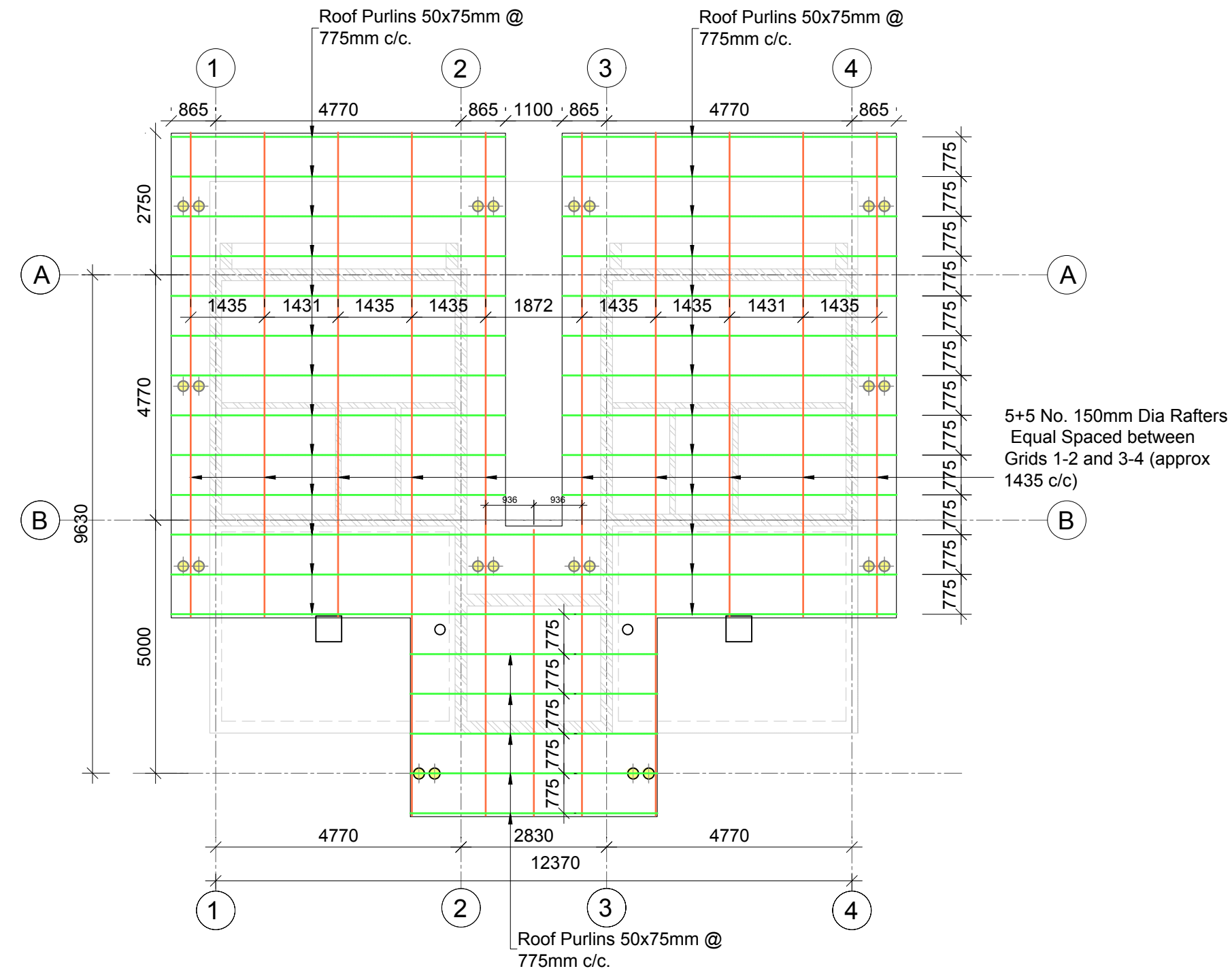
Scale As indicated

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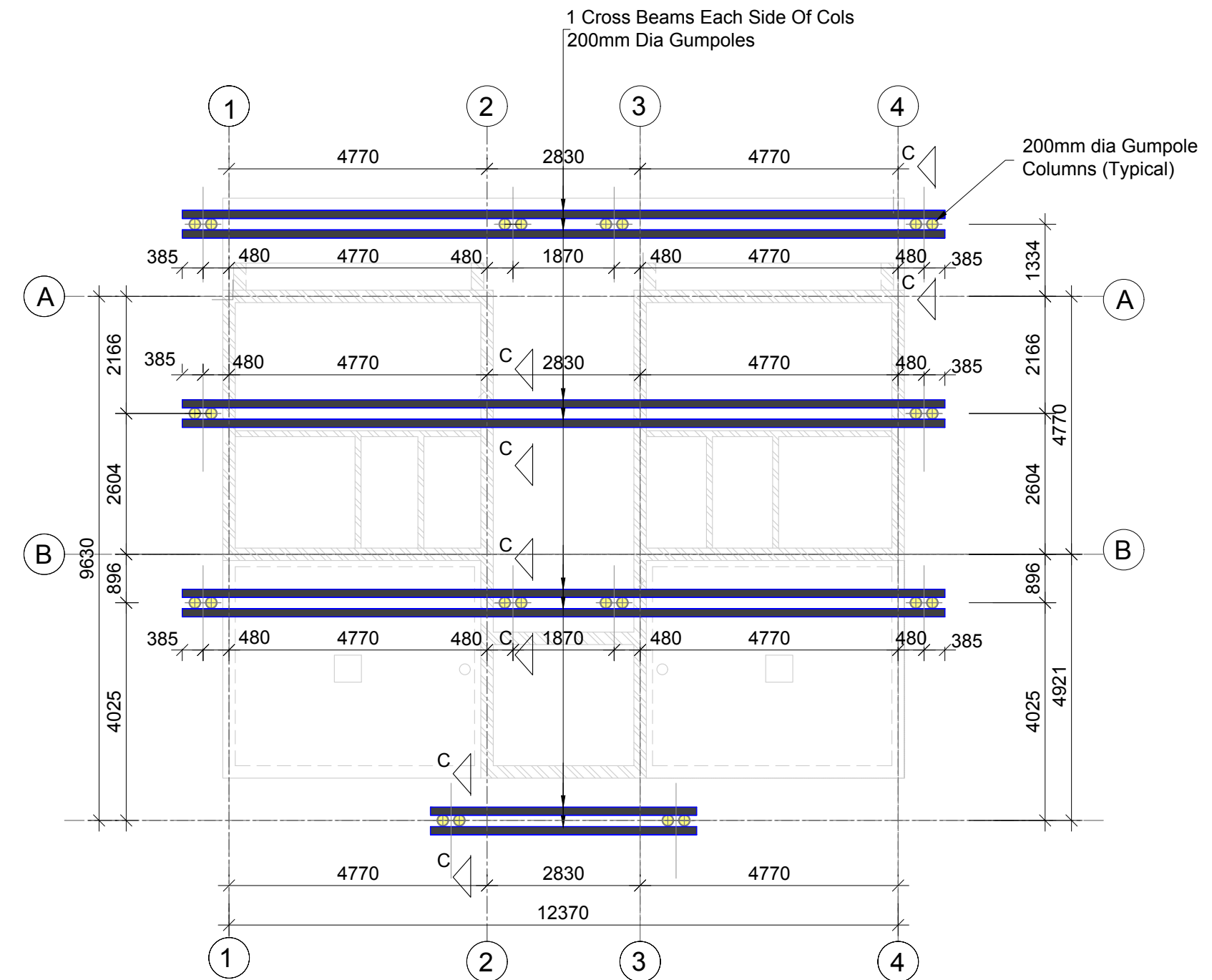
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ABLUCTIONS RAFTER AND PURLINS ROOF LAYOUT

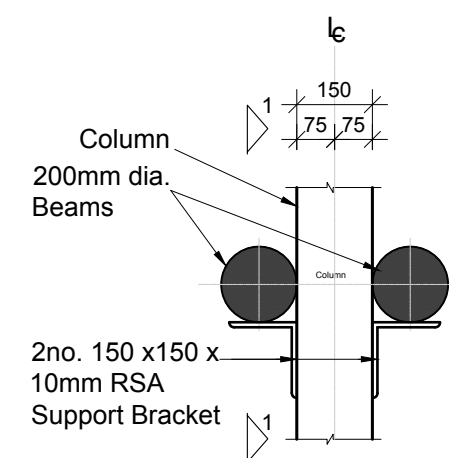
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NOTE :FOR STANDARD STRUCTURAL NOTES REFER TO DRAWING NUMBER 21023 - S-000 FOR COLUMN BRACING REFER TO DRAWING NO. S-7108.



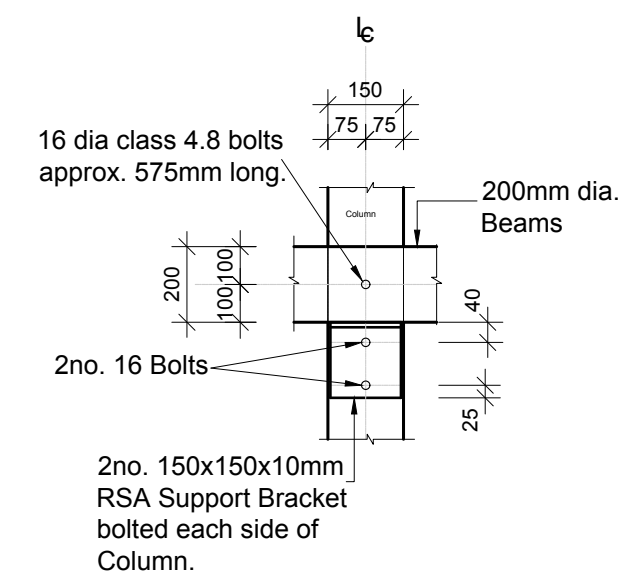
ABLUCTIONS BEAMS ON ROOF LAYOUT

Scale: 1:100



SECTION C-C

Scale 1:15



ELEVATION 1-1

Scale 1:15

Zimbabwe Idai Recovery Project

Jopa Women's Market

Ablutions
Roof Rafter, Purlins &
Beams Layout & Section

Project no. REQ-ZIM 2021-117

Date 15/12-2021

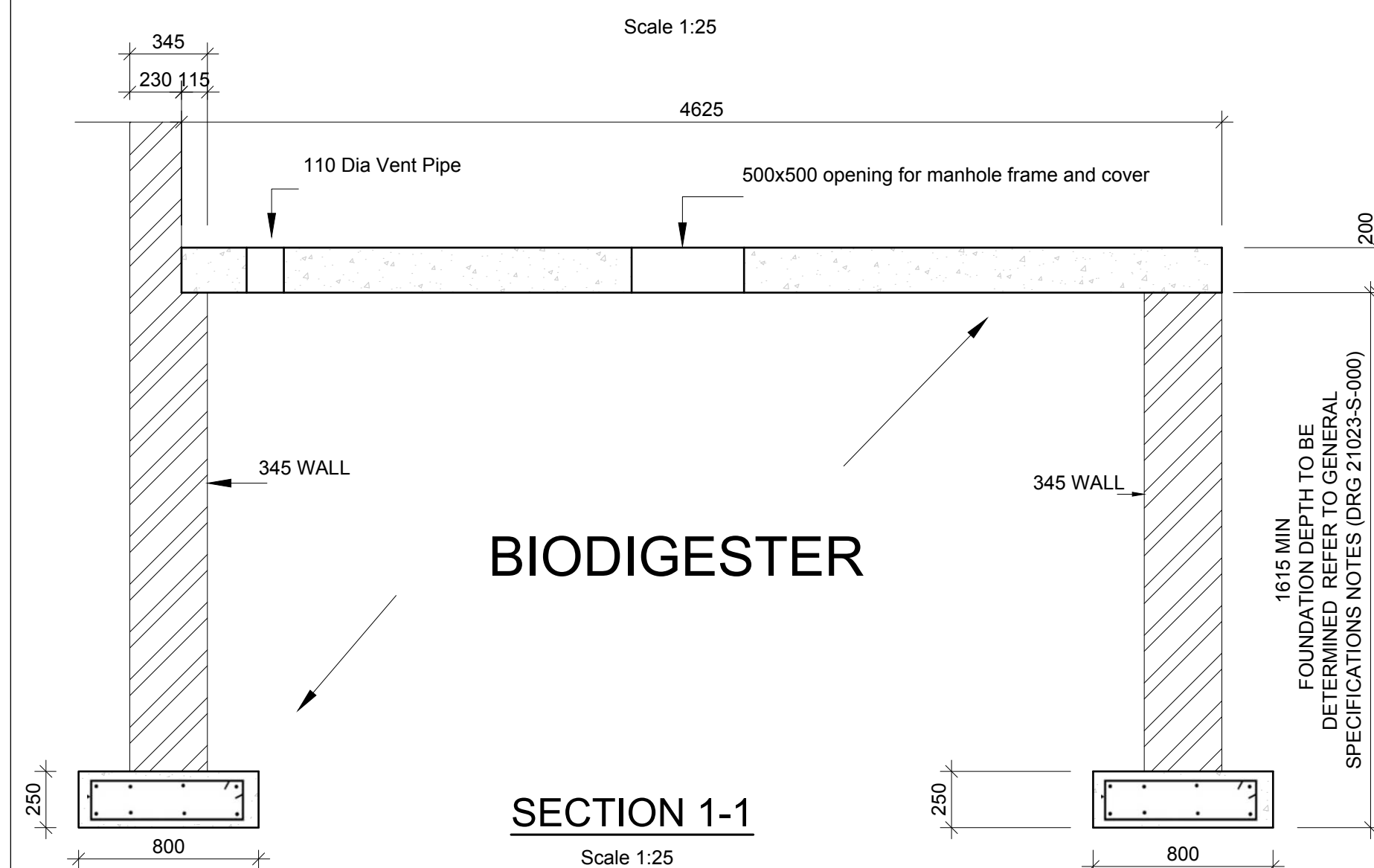
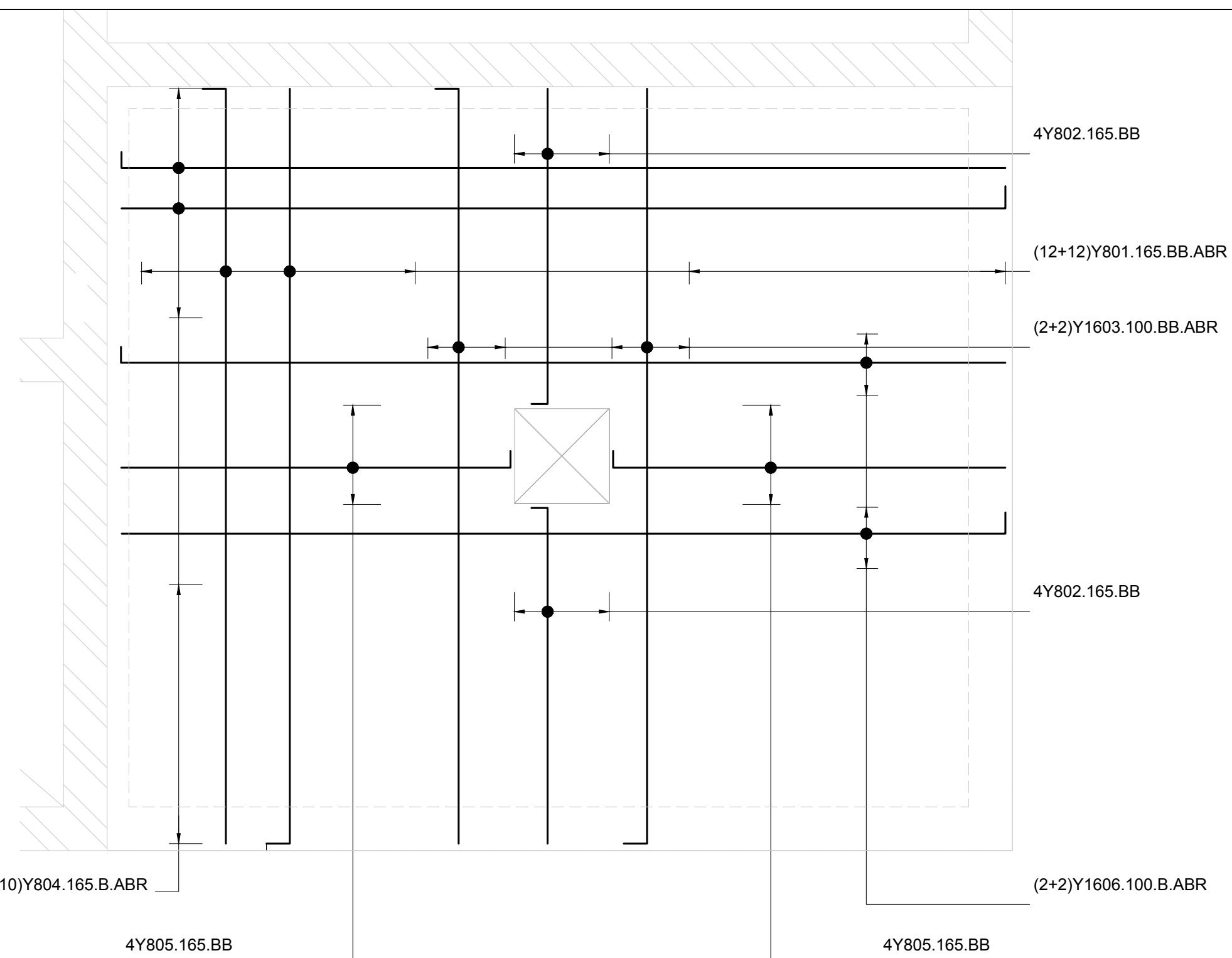
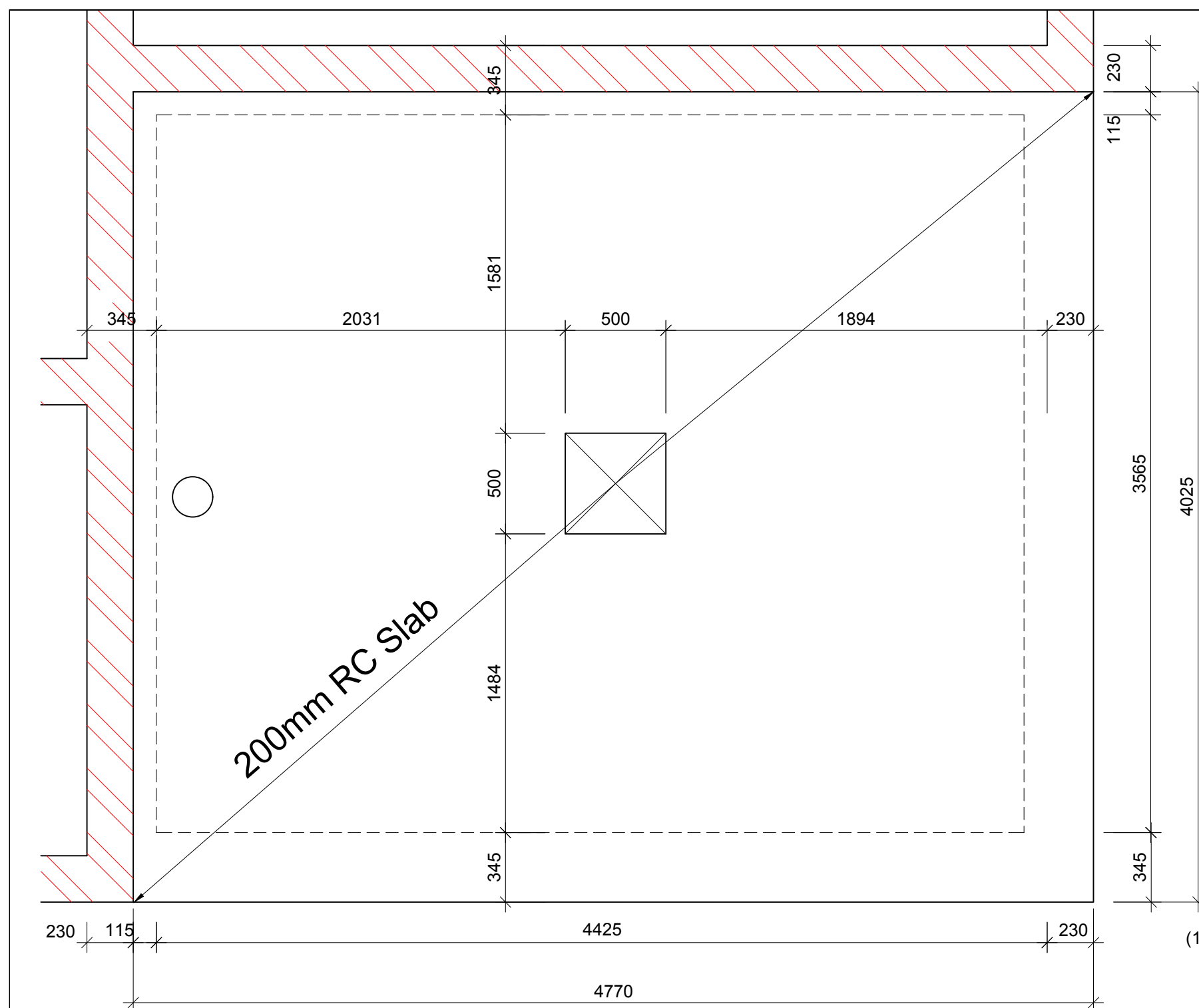
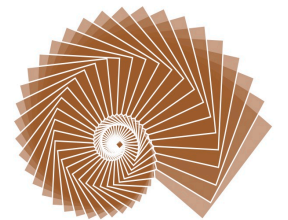
Drawn by PM

Checked by PM

S-310

Scale As indicated

D8

[illegible]

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Zimbabwe Idai Recovery Project

Jopa Women's Market

Biodigester RC Layout & Details

Project no. REQ-ZIM 2021-117

Date	15/12-2021
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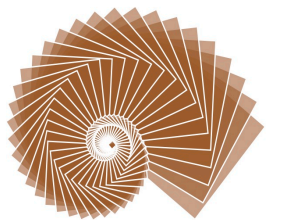
Drawn by	PM
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Checked by	PM
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S-315

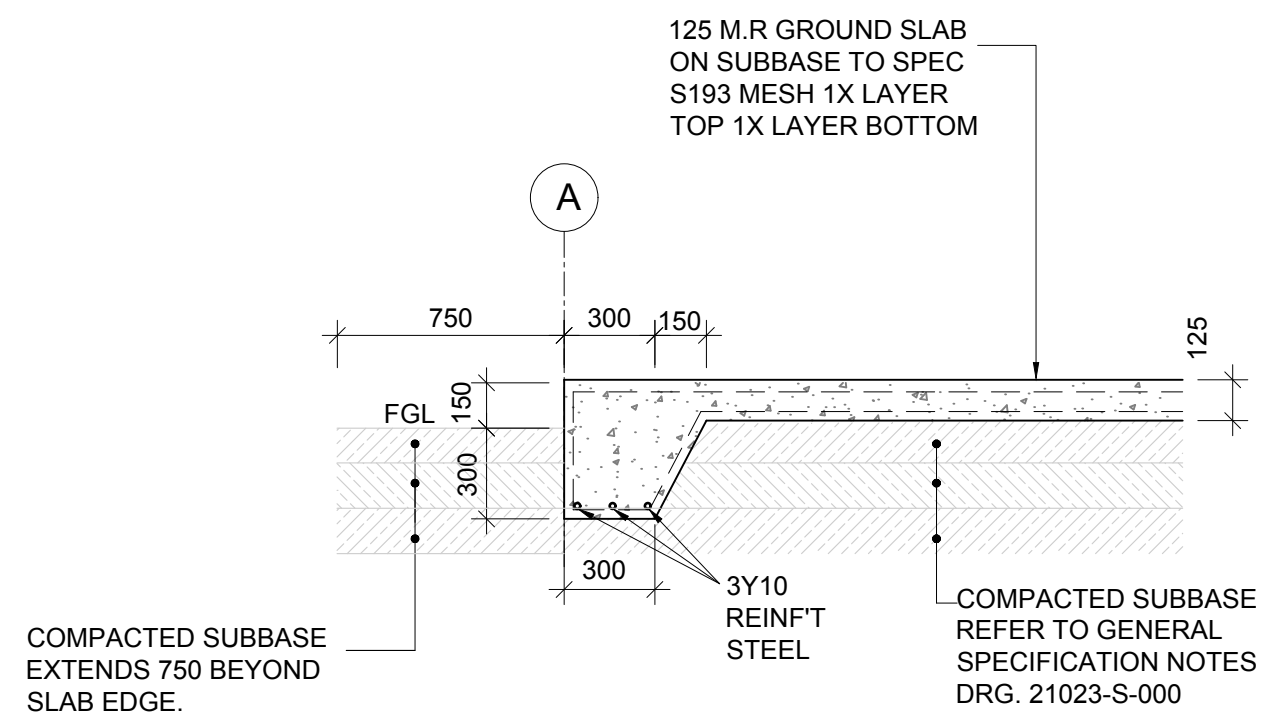
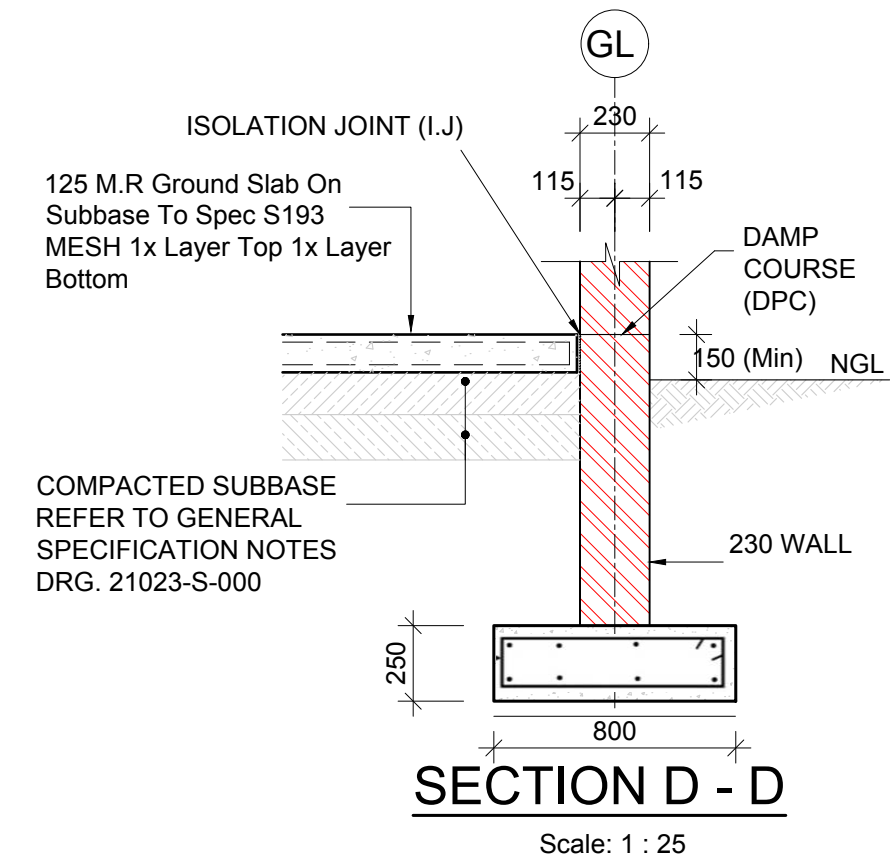
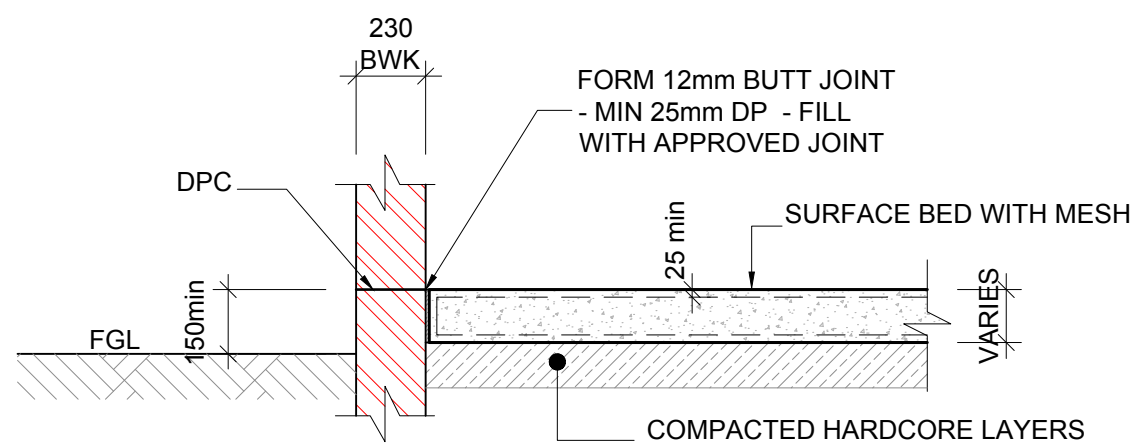
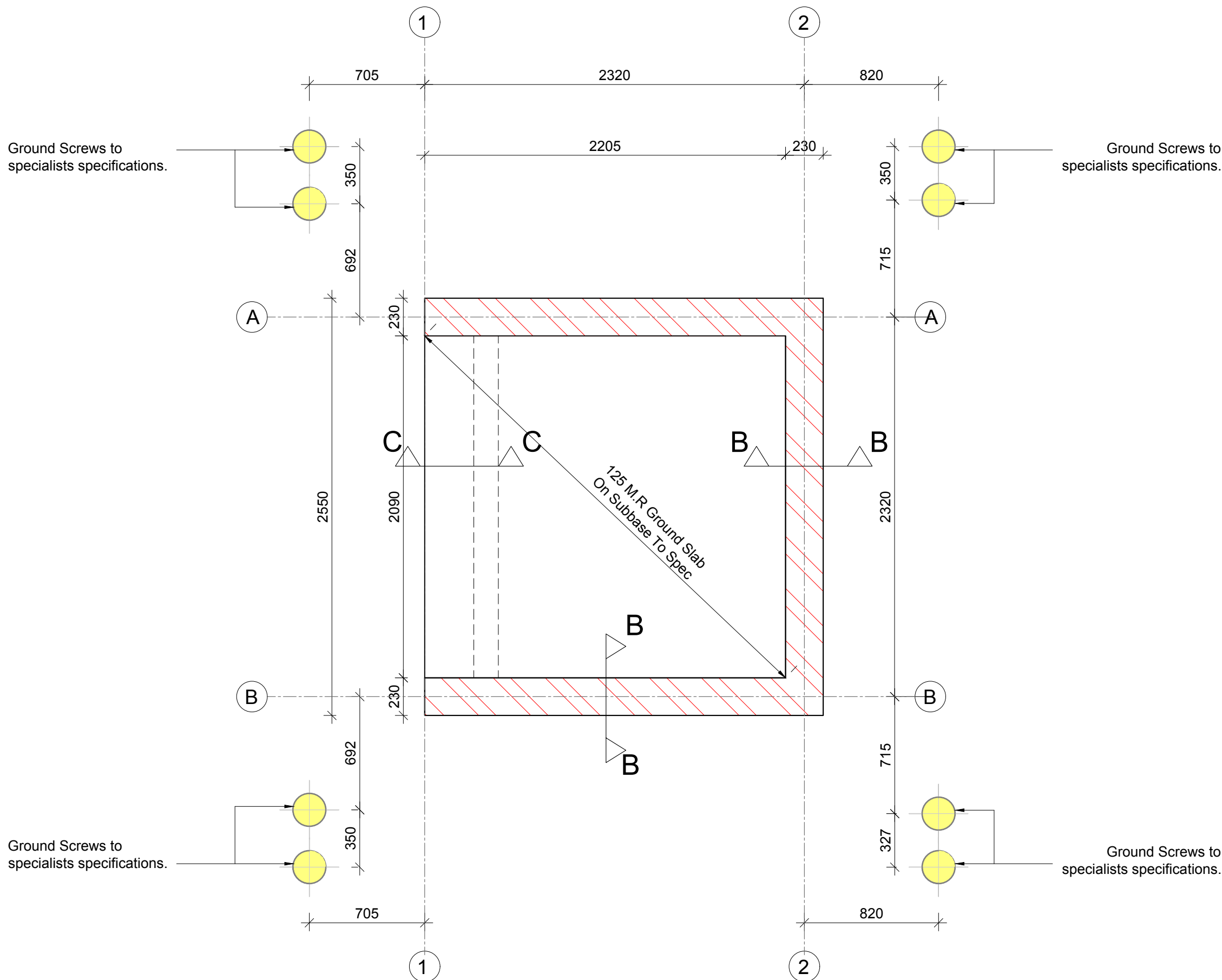
Scale	As indicated
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D6



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Zimbabwe Idai Recovery Project

Jopa Women's Market

Cooking Hut Ground Floor Slab Layout & Section

Project no. REQ-ZIM 2021-117

Date 15/12-2021

Drawn by PM

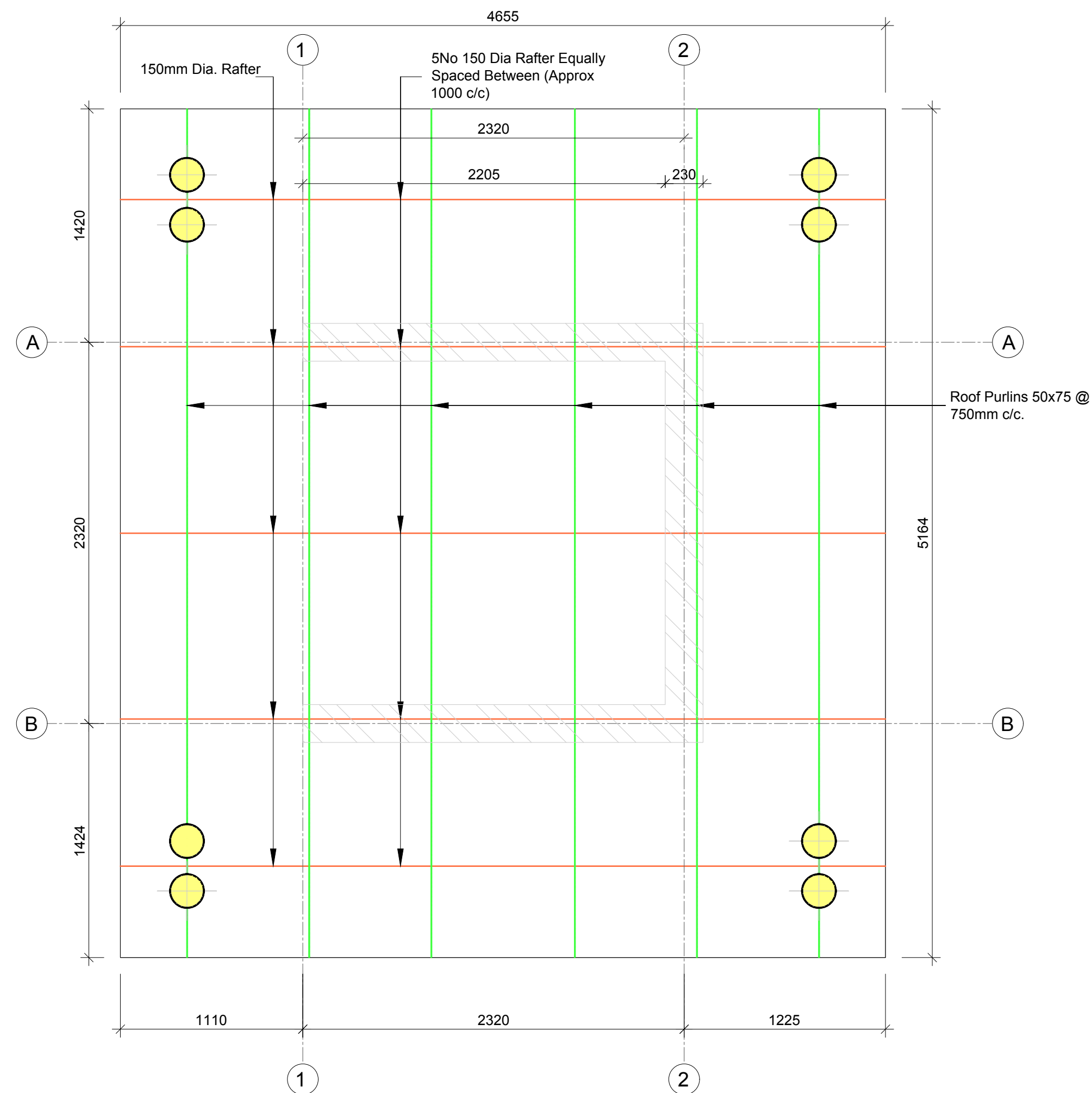
Checked by PM

S-400

Scale As indicated

D2

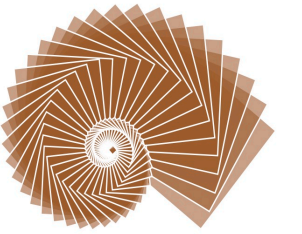
Scale	As indicated
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COOKING HUT RAFTER & PURLIN ROOF LAYOUT

Scale: 1 : 25

NOTE :FOR STANDARD STRUCTURAL
NOTES REFER TO DRAWING NUMBER
21023 - S-000 FOR COLUMN BRACING
REFER TO DRAWING NO. S-7108.



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Zimbabwe Idai Recovery
Project

Jopa Women's Market

Cooking Hut
Roof Rafters & Purlins
Layout

Project no. REQ-ZIM 2021-117

Date 15/12-2021

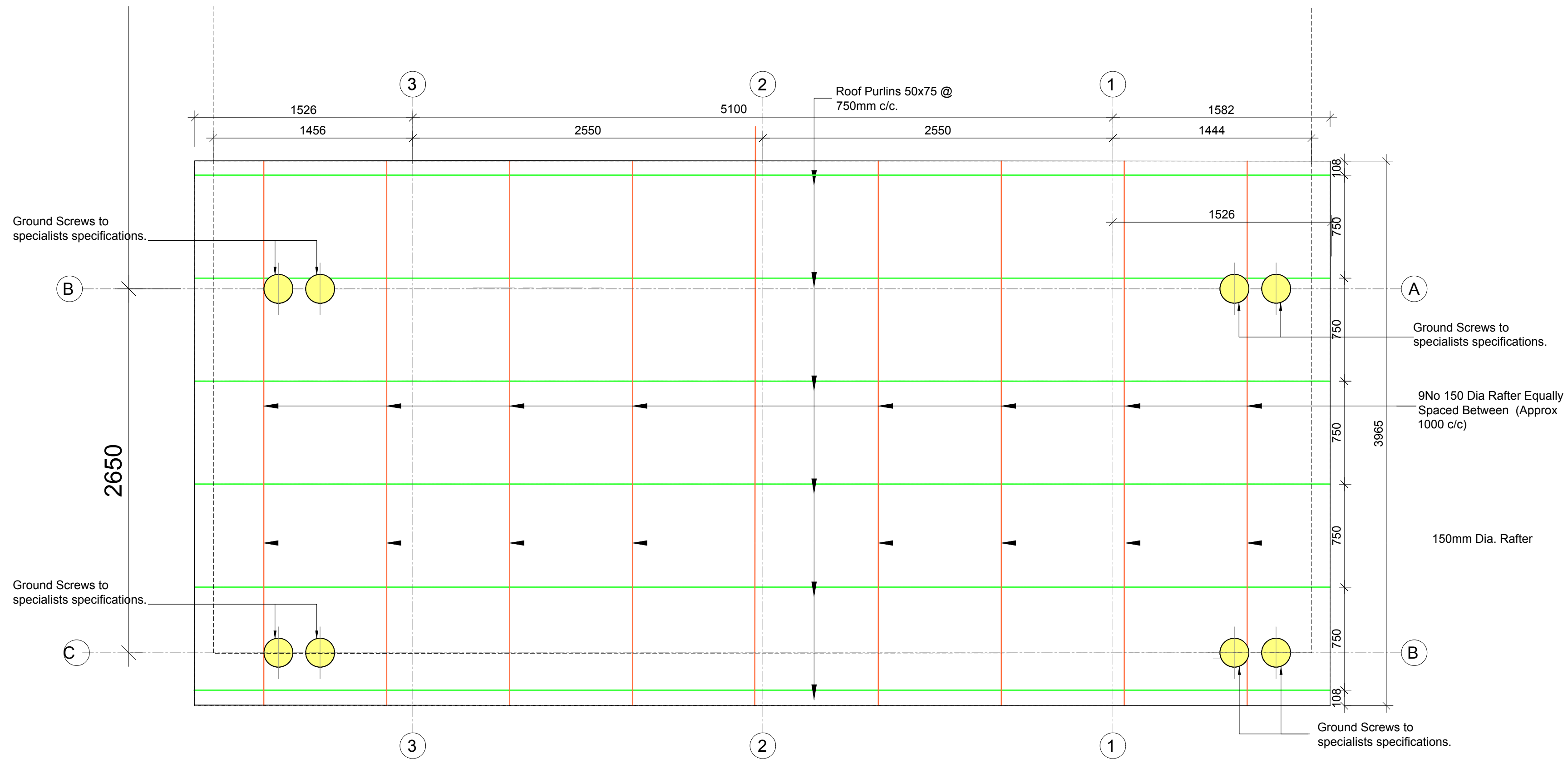
Drawn by PM

Checked by PM

S-410

Scale As indicated

D3



SOLID WASTE RAFTER & PURLIN ROOF LAYOUT

Scale: 1 : 25

NOTE :FOR STANDARD STRUCTURAL
NOTES REFER TO DRAWING NUMBER
21023 - S-000 FOR COLUMN BRACING
REFER DRAWING NO. S-7108.

Zimbabwe Idai Recovery
Project

Jopa Women's Market

Solid Waste Roof Rafters & Purlins Layout

Project no. REQ-ZIM 2021-117

Date 15/12-2021

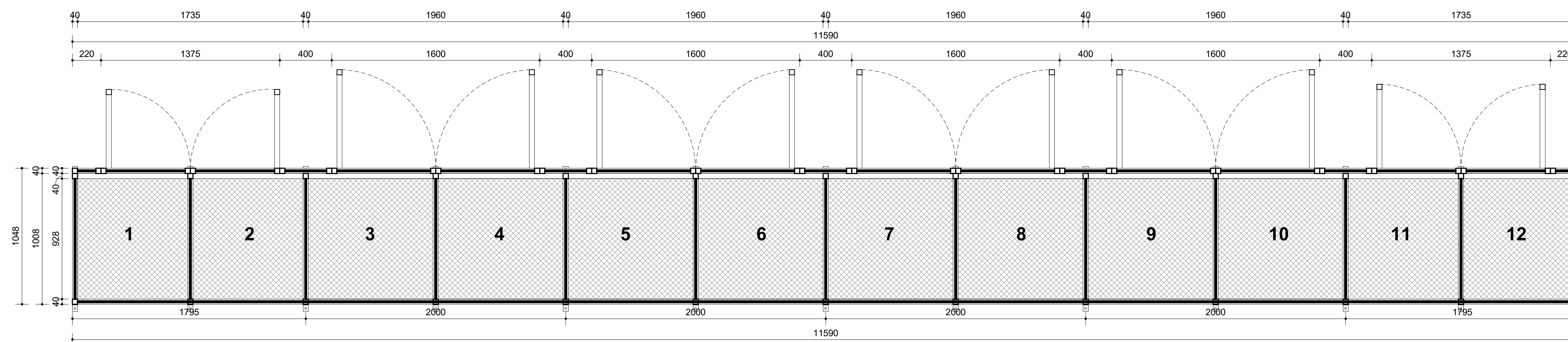
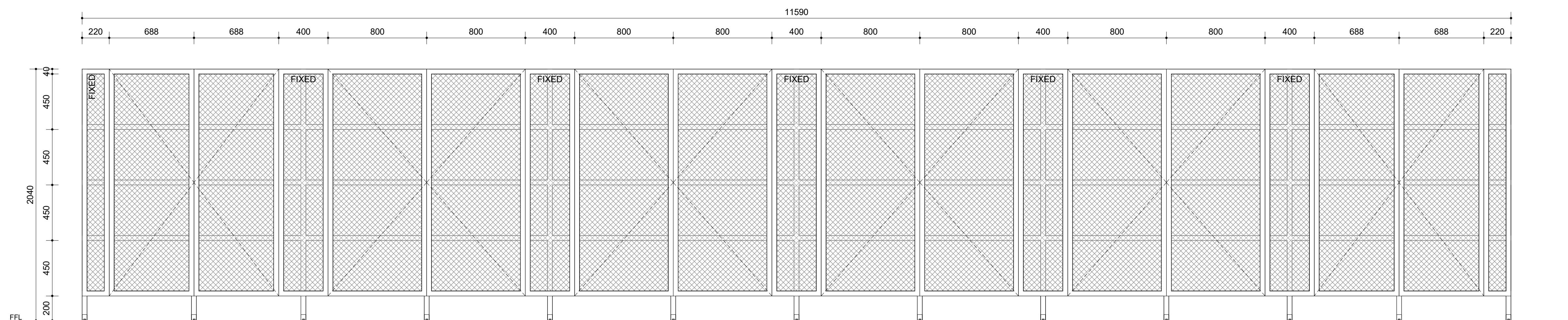
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Checked by _____ PM _____

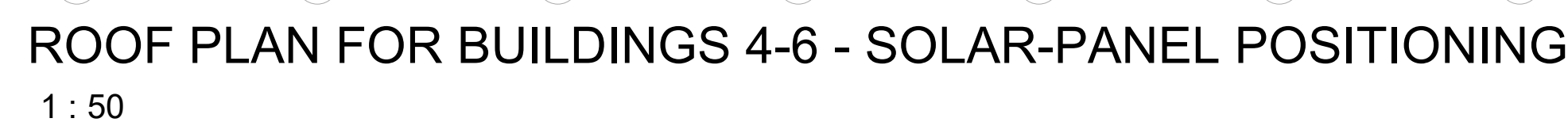
S-510

Scale	As indicated
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D3



Scale 1 : 20



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Zimbabwe Idai Recovery
Project

Jopa Women's Market

Solar panel fixing detailing

Project no. REQ-ZIM 2021-117

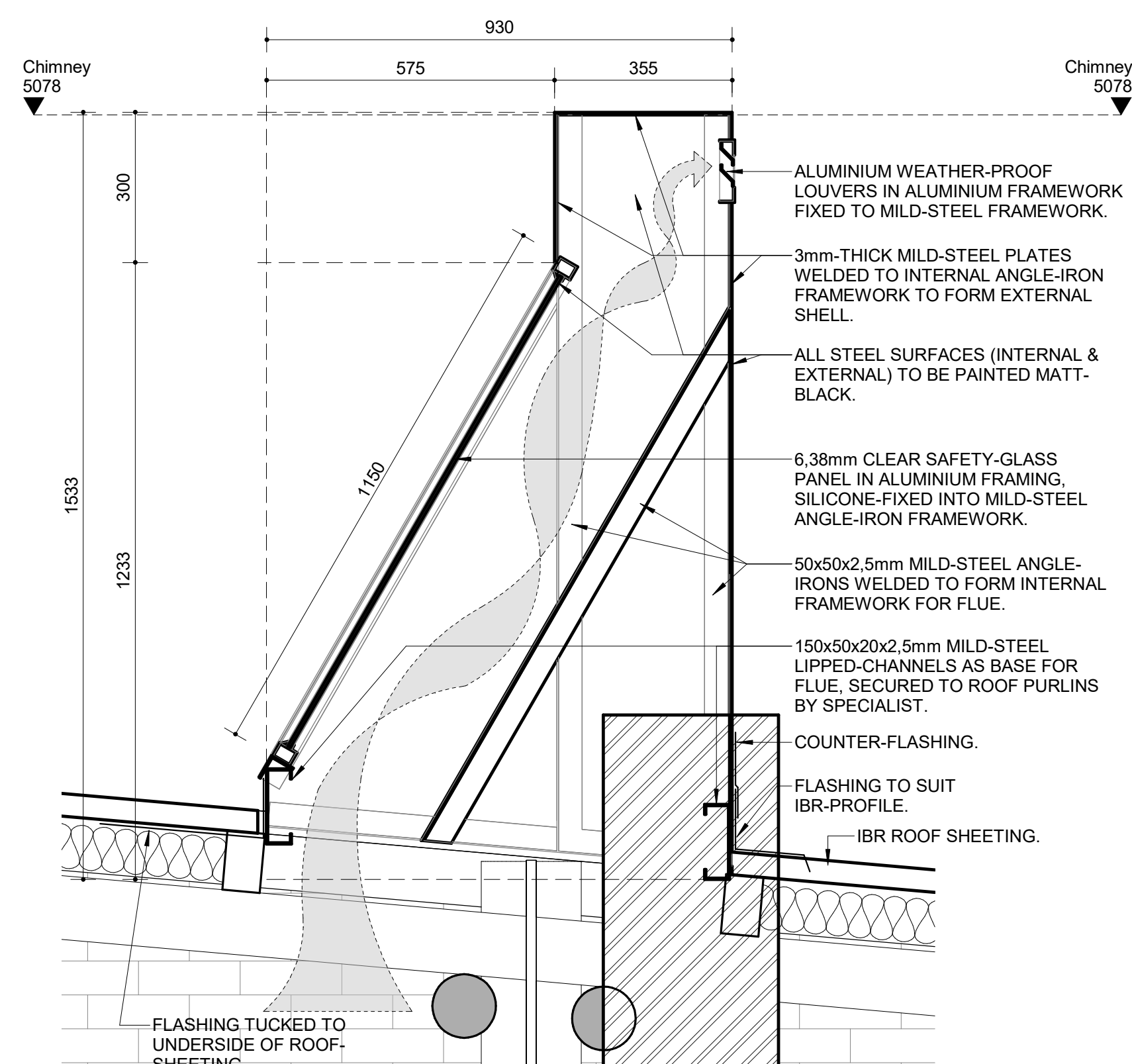
Date	14/03/2022
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Drawn by JD

Checked by	PM
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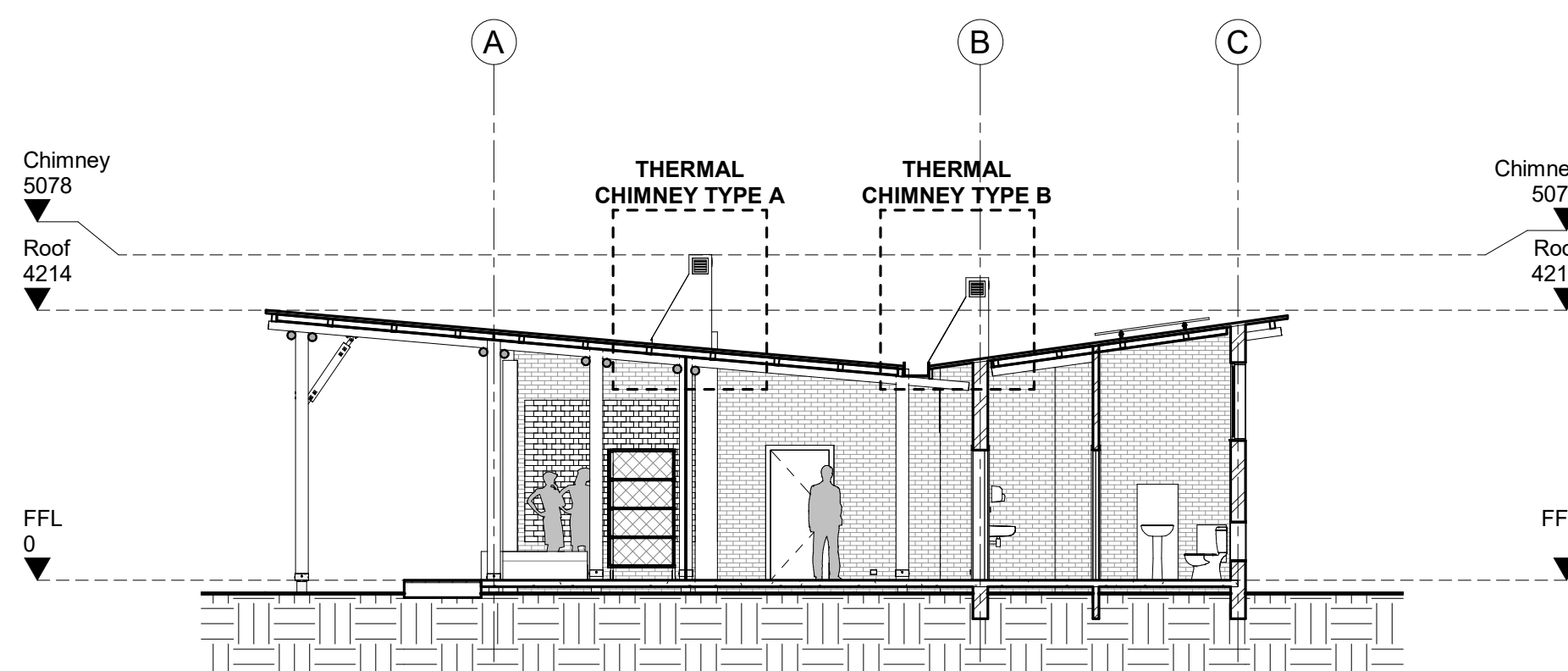
7102

Scale	As indicated
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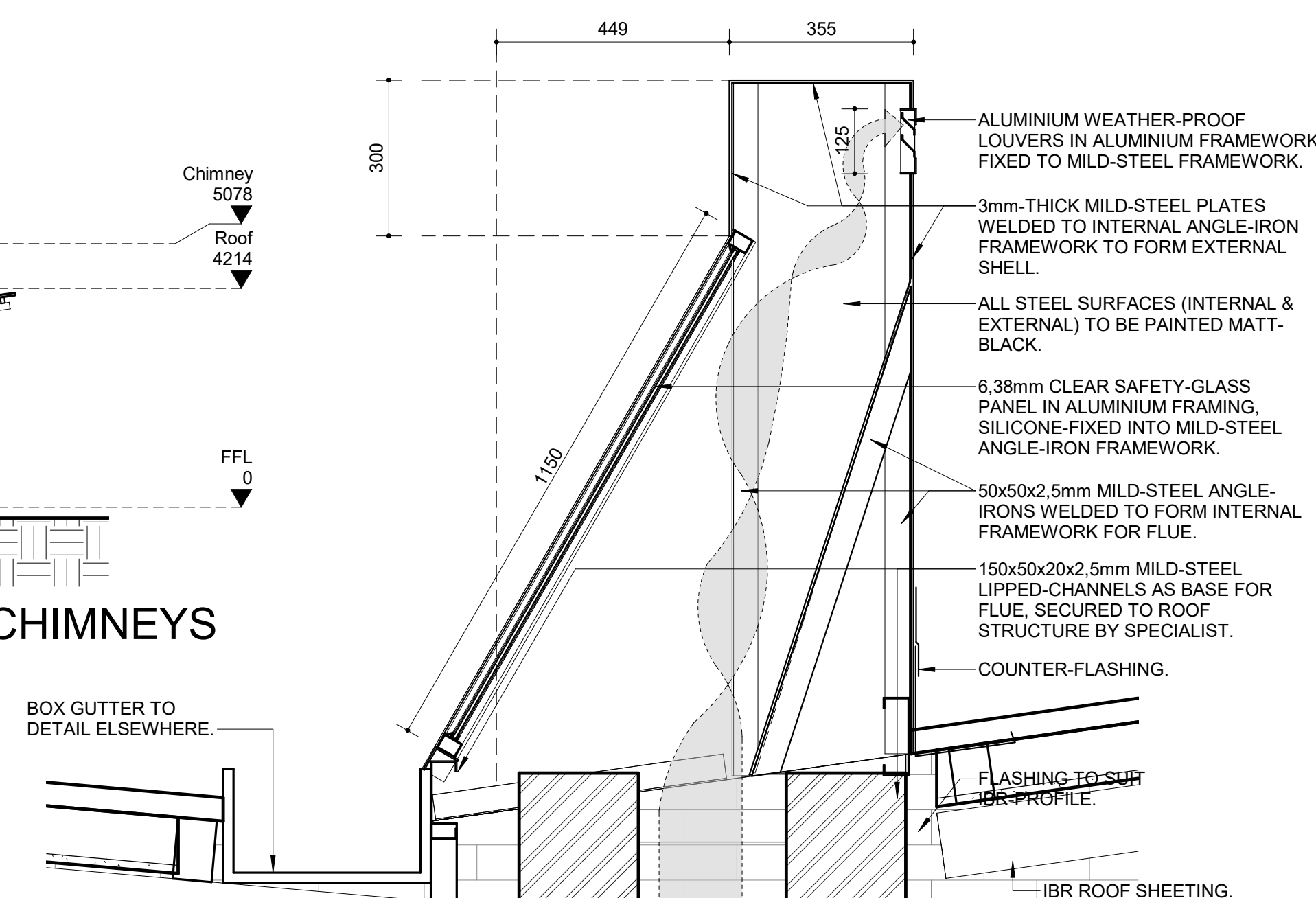
THERMAL CHIMNEY TYPE A - SECTION

1 : 10



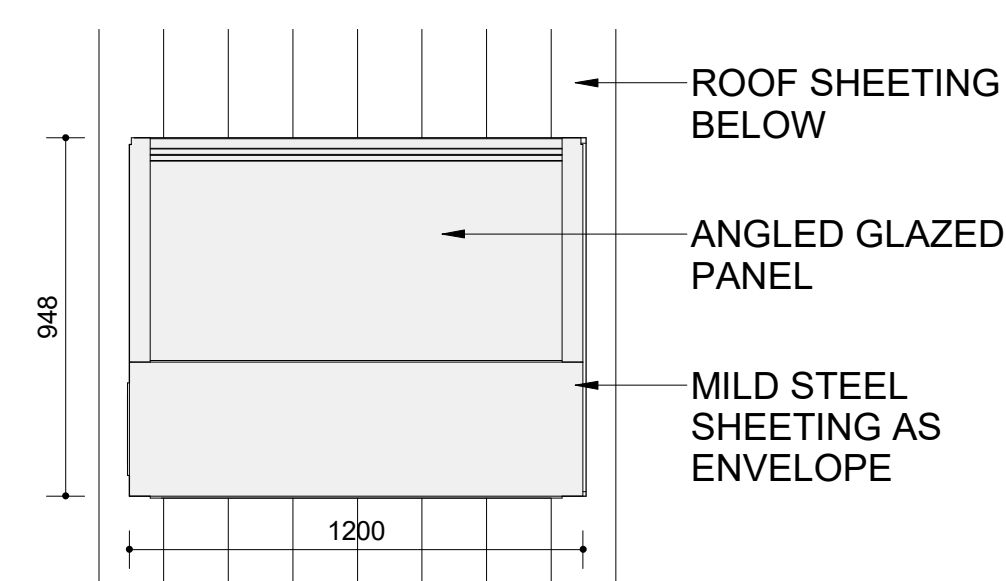
TYPICAL MARKET-STALL SECTION - THERMAL CHIMNEYS

1 : 100



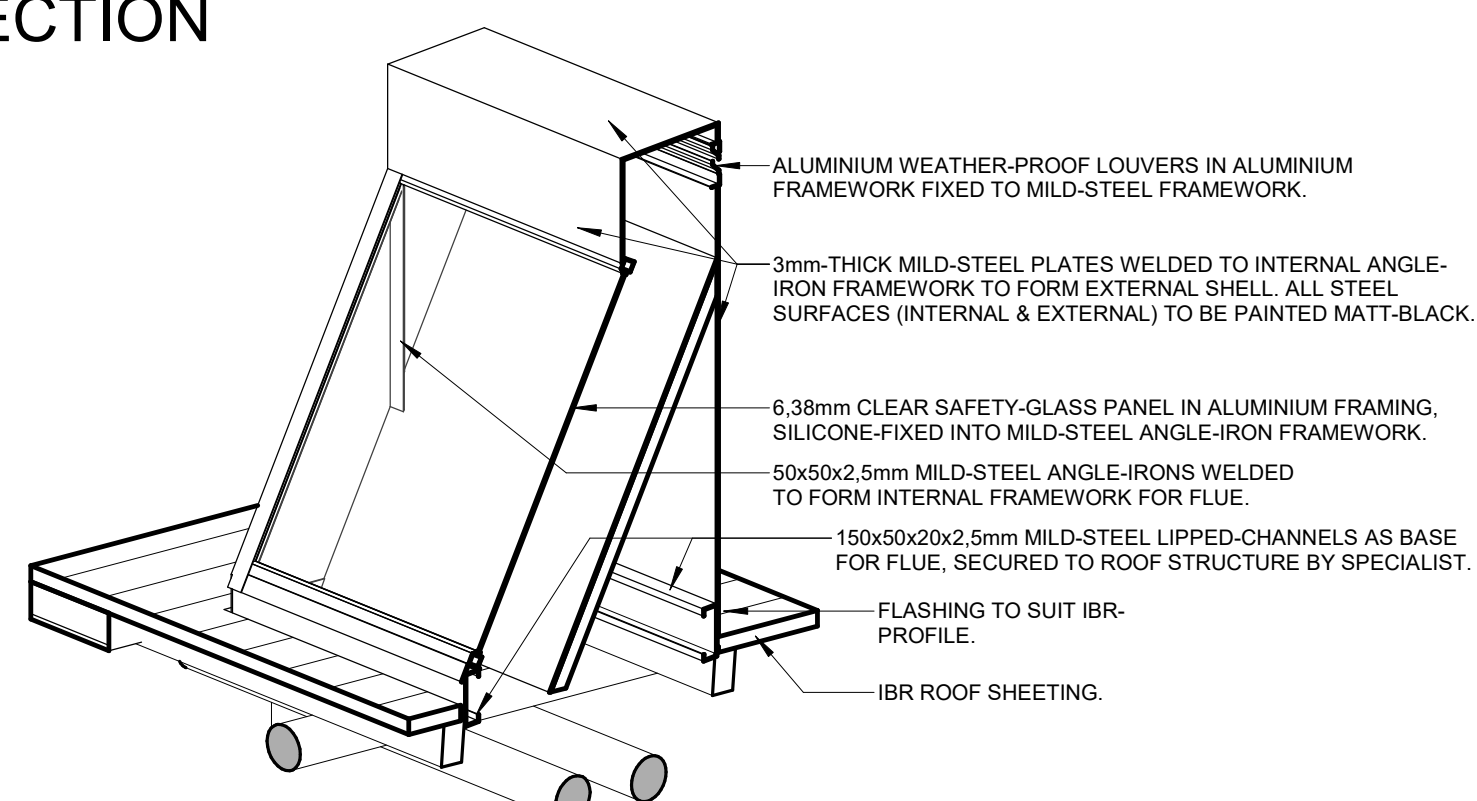
THERMAL CHIMNEY TYPE B - SECTION

1 : 10

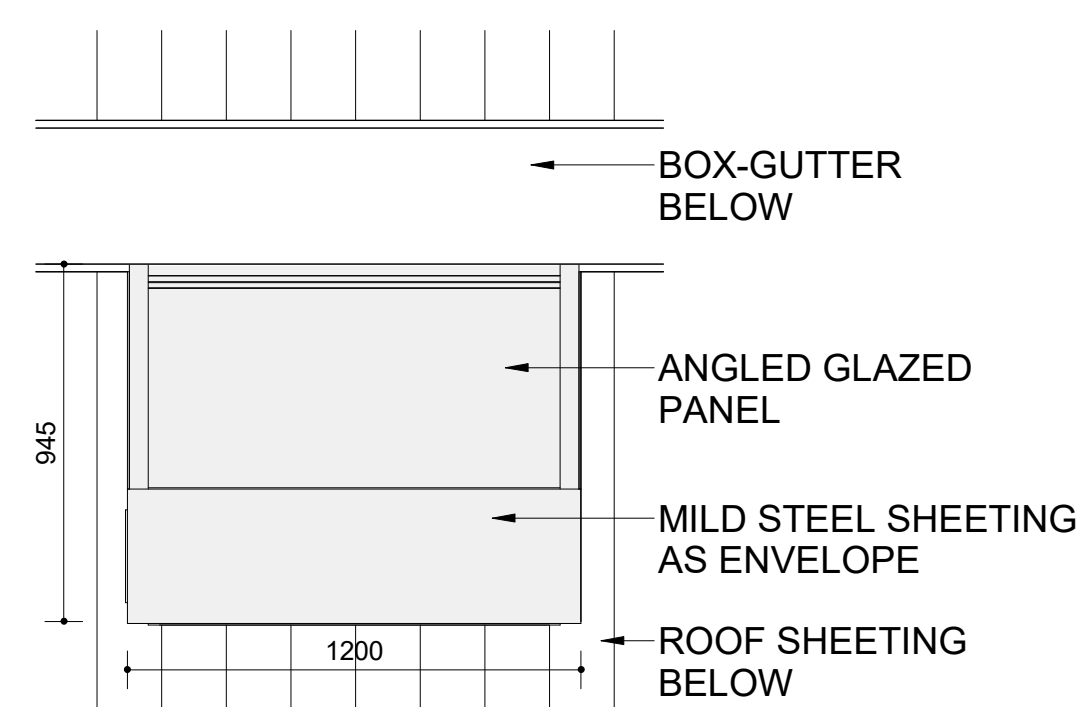


CHIMNEY TYPE A - PLAN VIEW

1 : 20

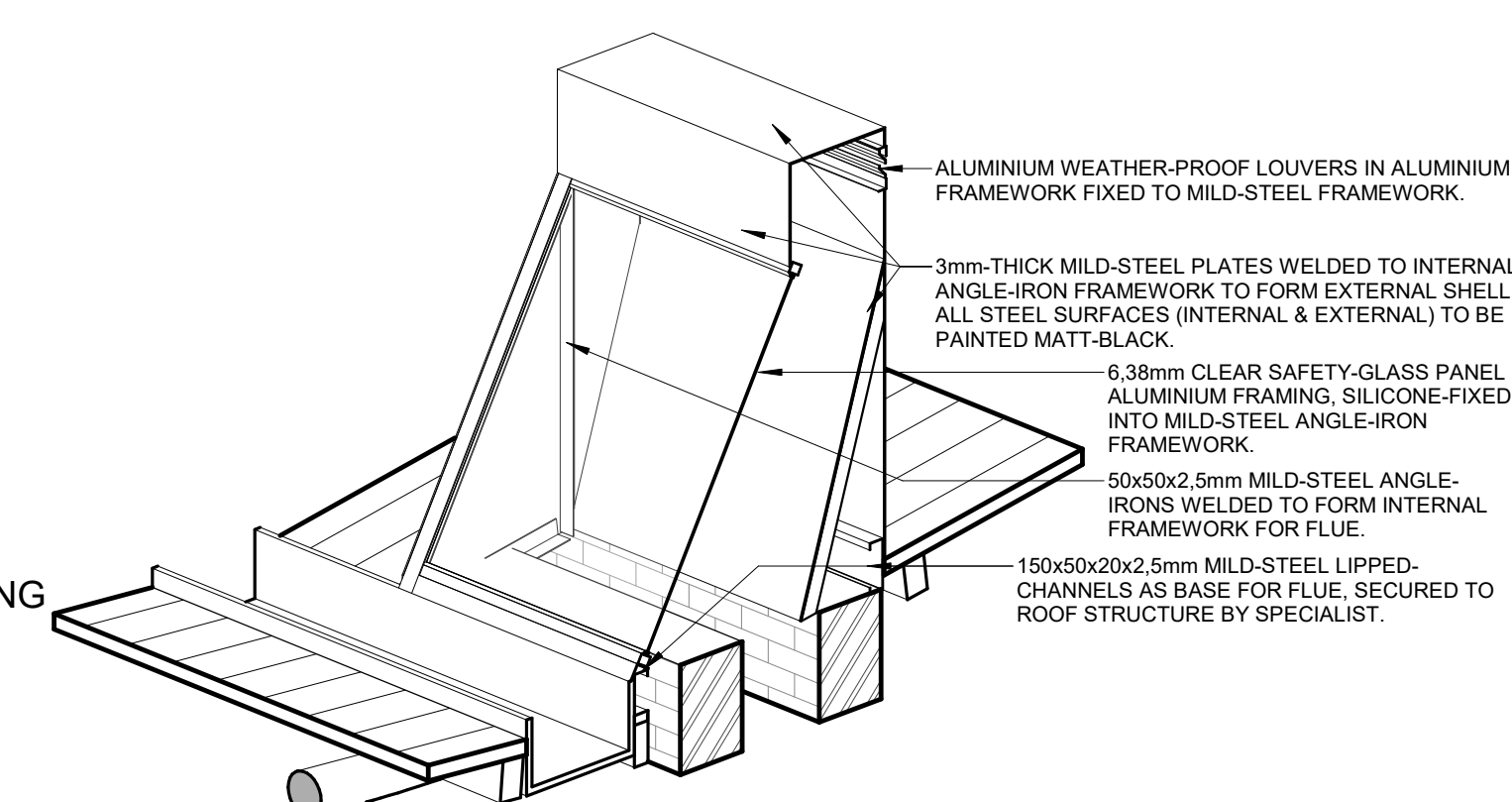


CHIMNEY TYPE A - SECTIONAL 3D

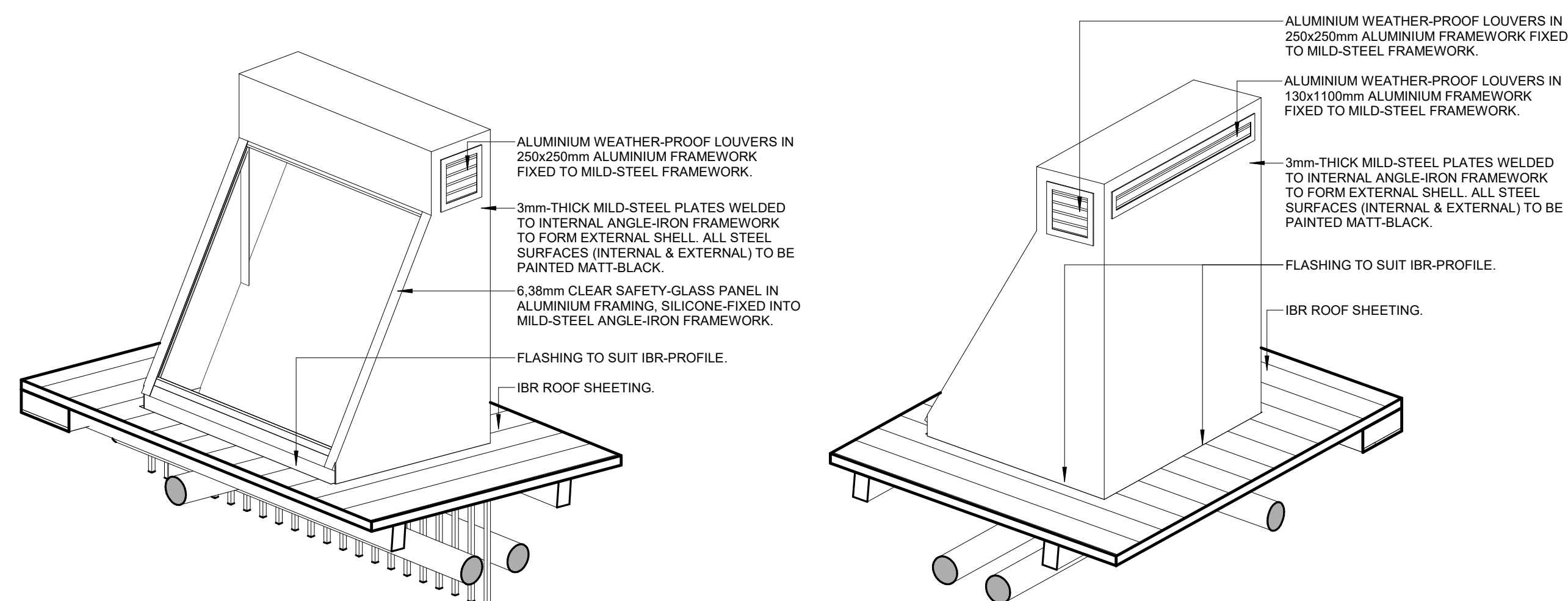


CHIMNEY TYPE B - PLAN VIEW

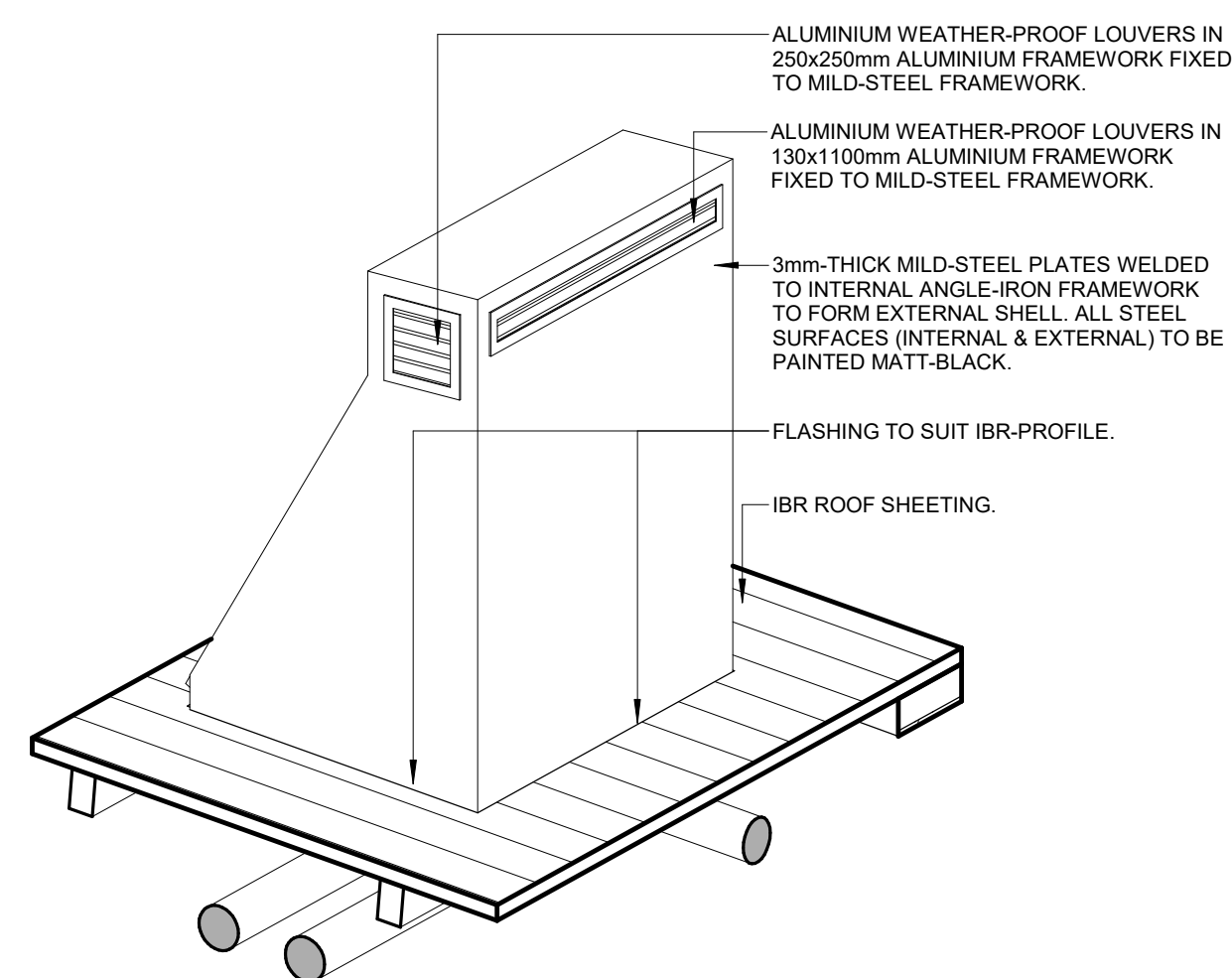
1 : 20



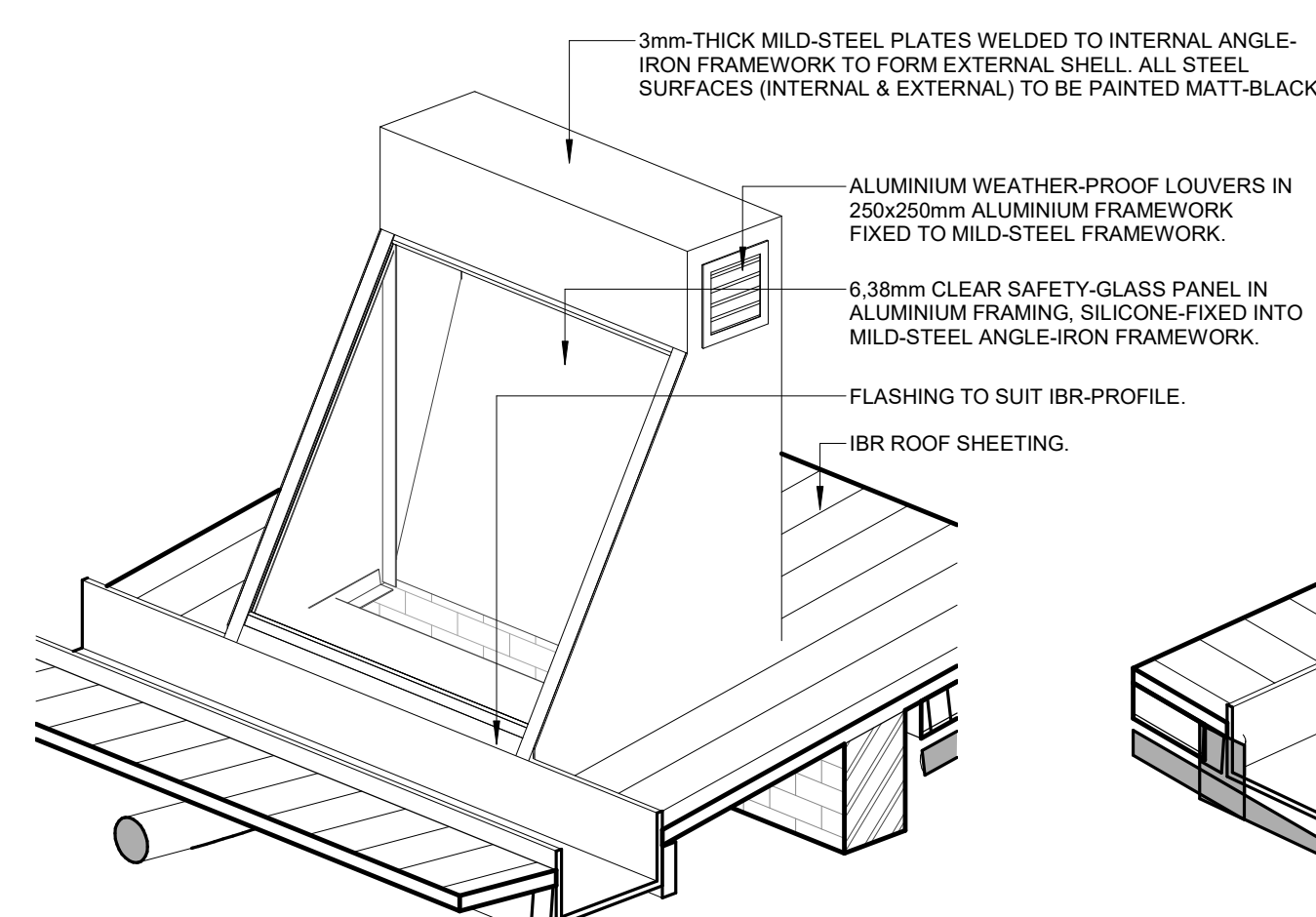
CHIMNEY TYPE B - SECTIONAL 3D



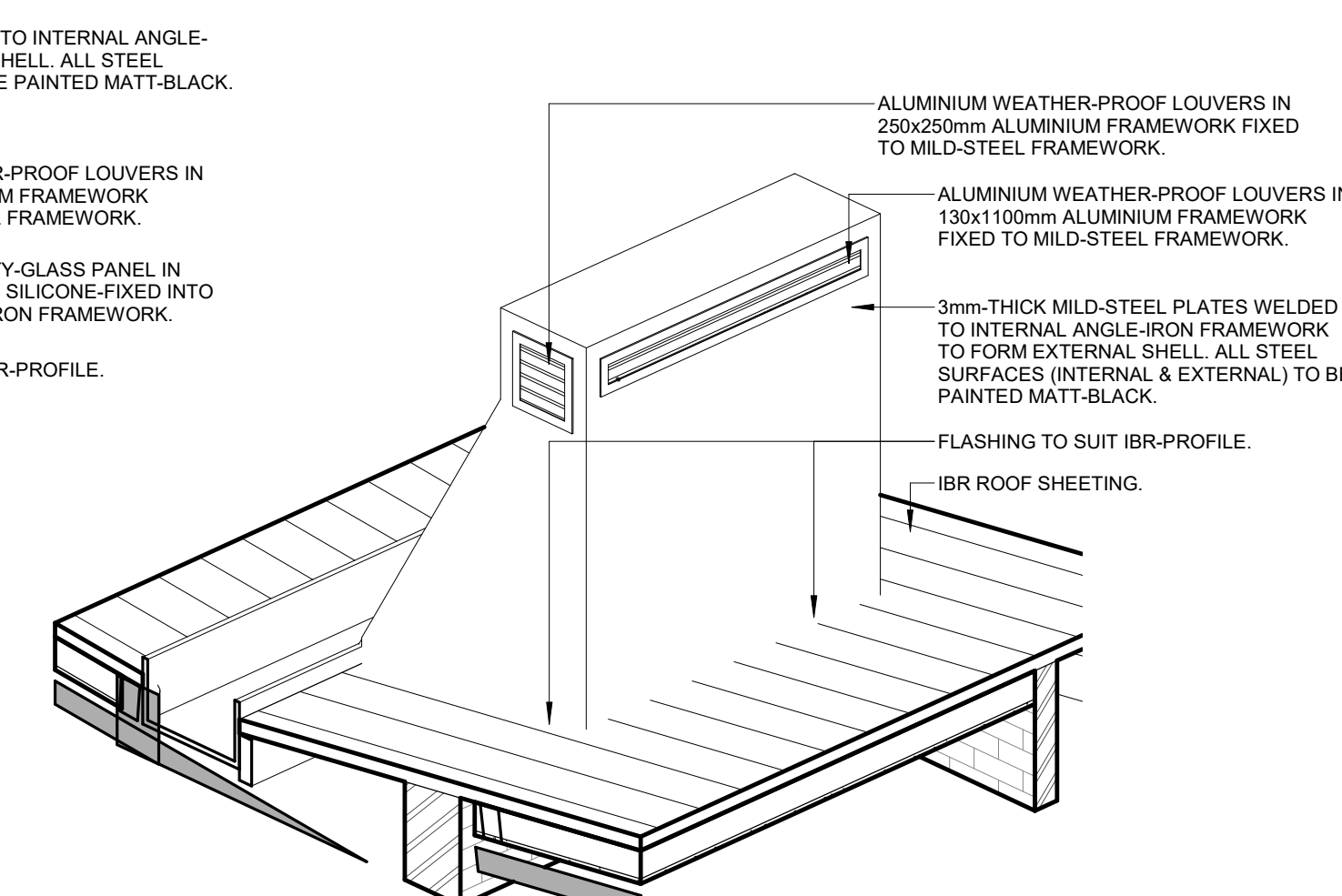
CHIMNEY TYPE A - 3D VIEW 1



CHIMNEY TYPE A - 3D VIEW 2



CHIMNEY TYPE B - 3D VIEW 1



CHIMNEY TYPE B - 3D VIEW 2

[illegible]

Zimbabwe Idai Recovery
Project

Jopa Women's Market

Thermal Chimney Detailing

Project no. REQ-ZIM 2021-117

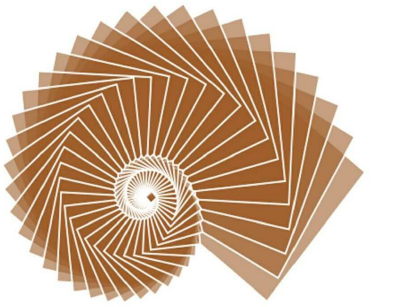
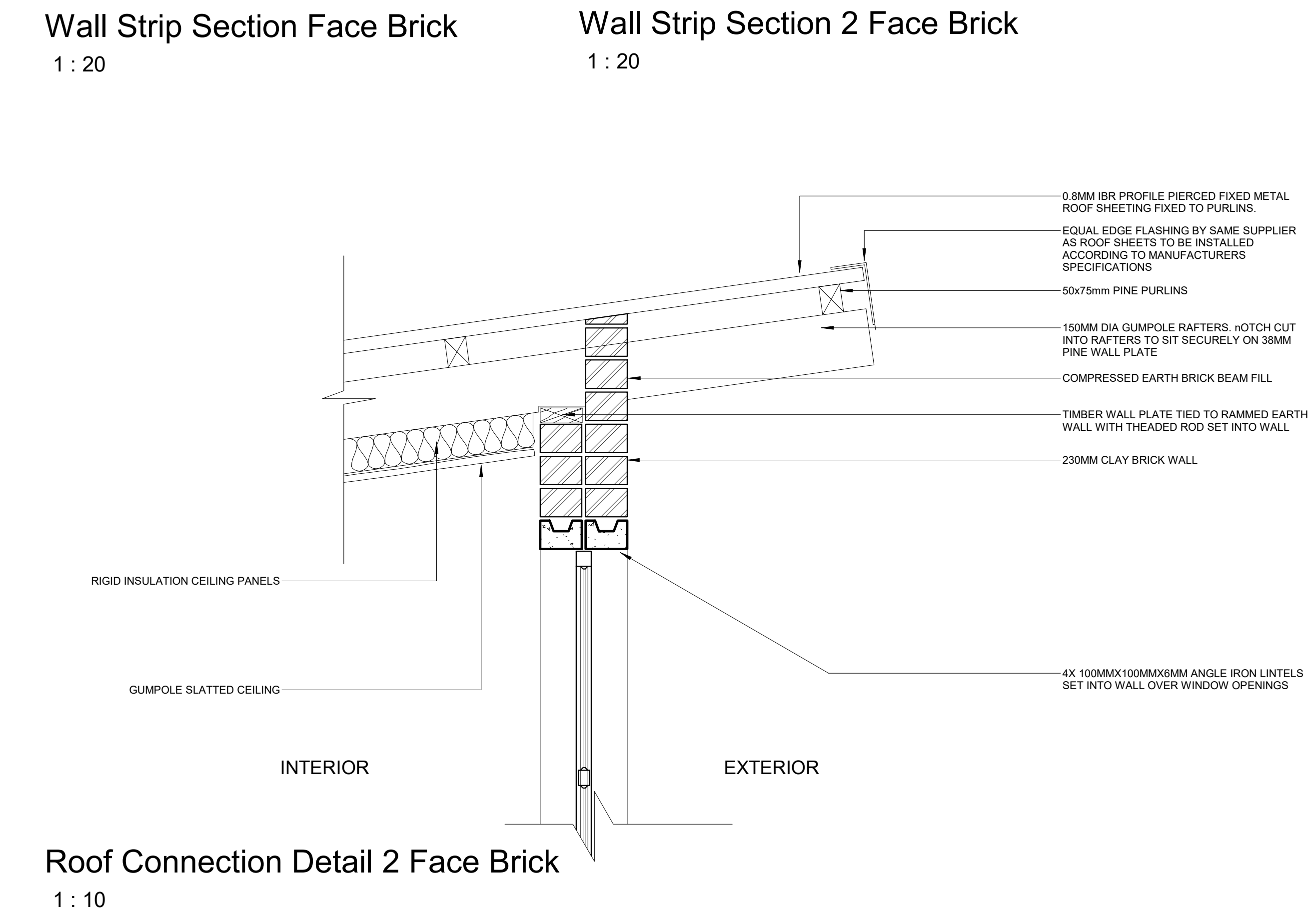
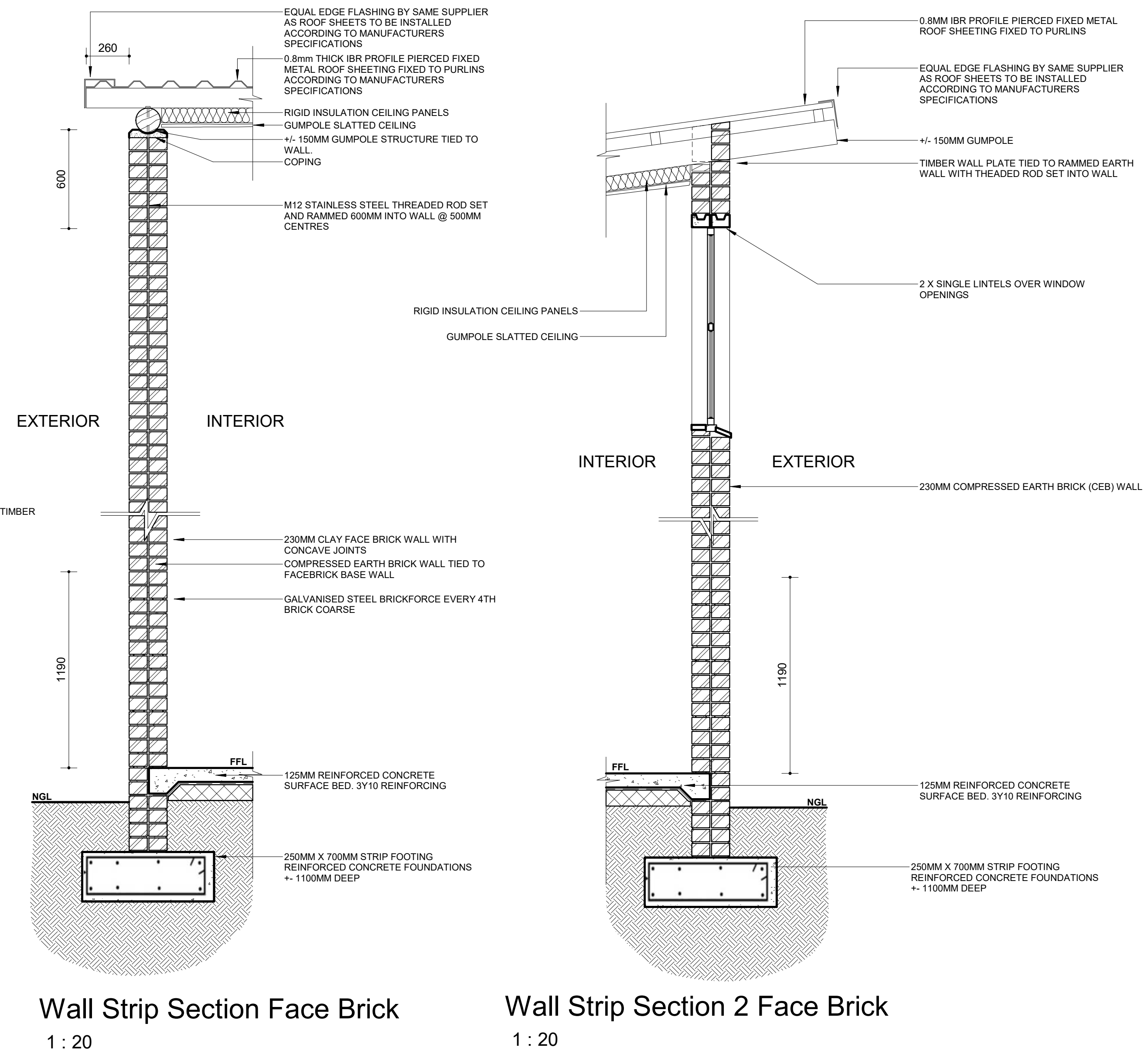
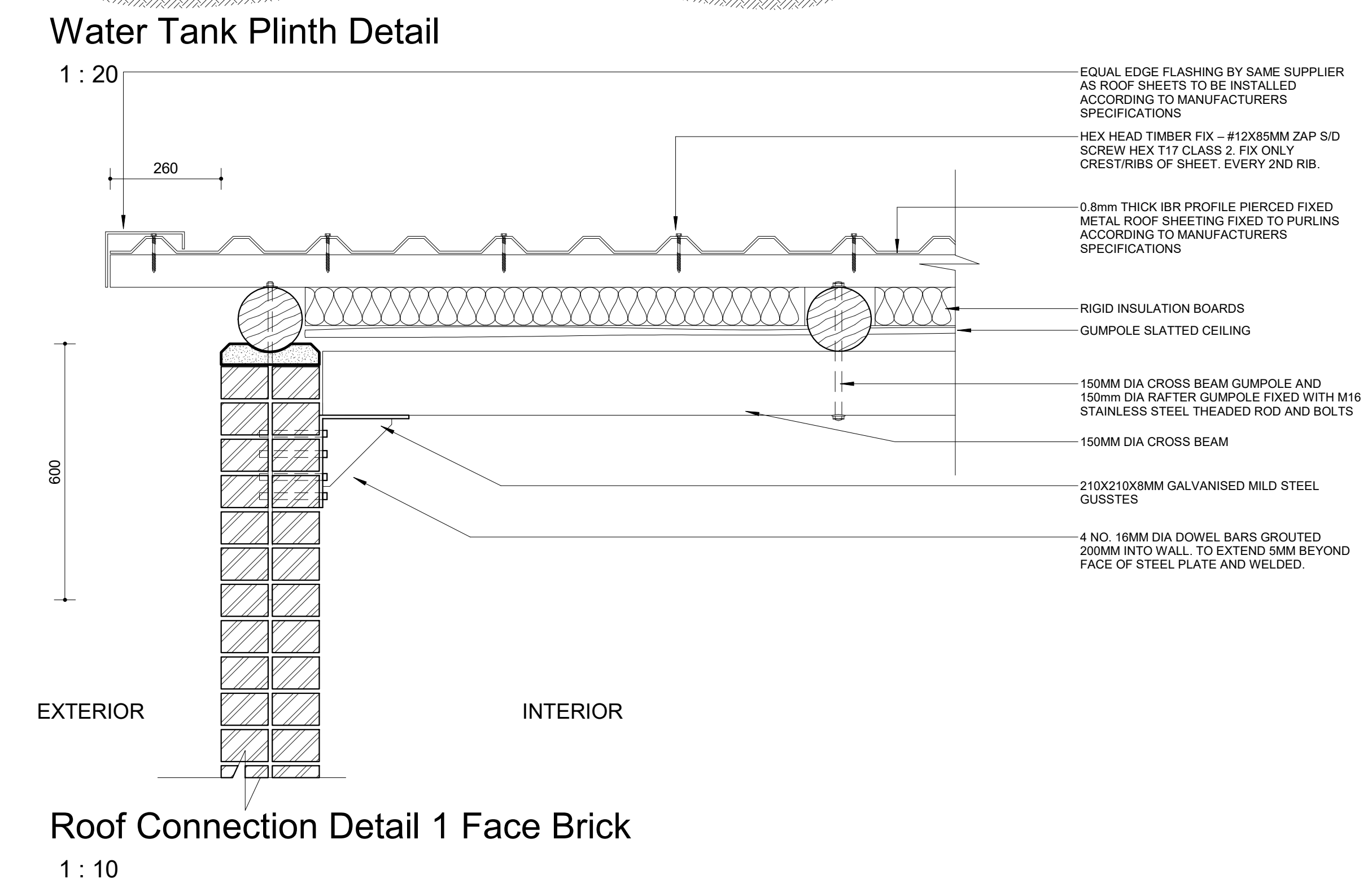
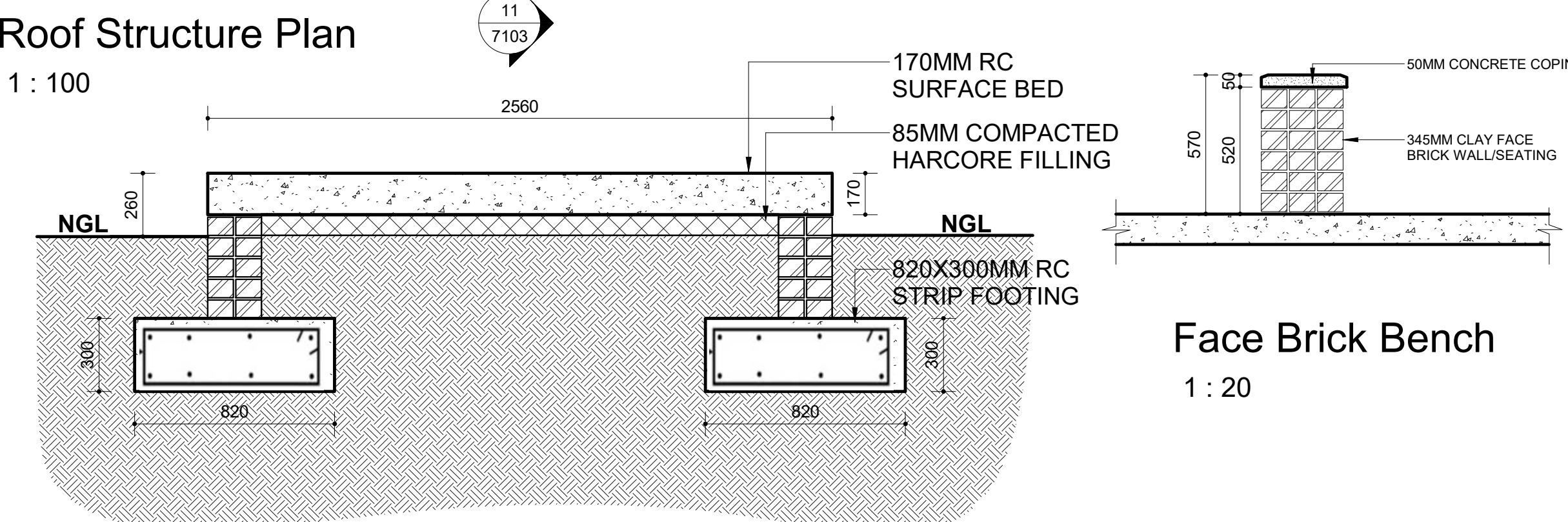
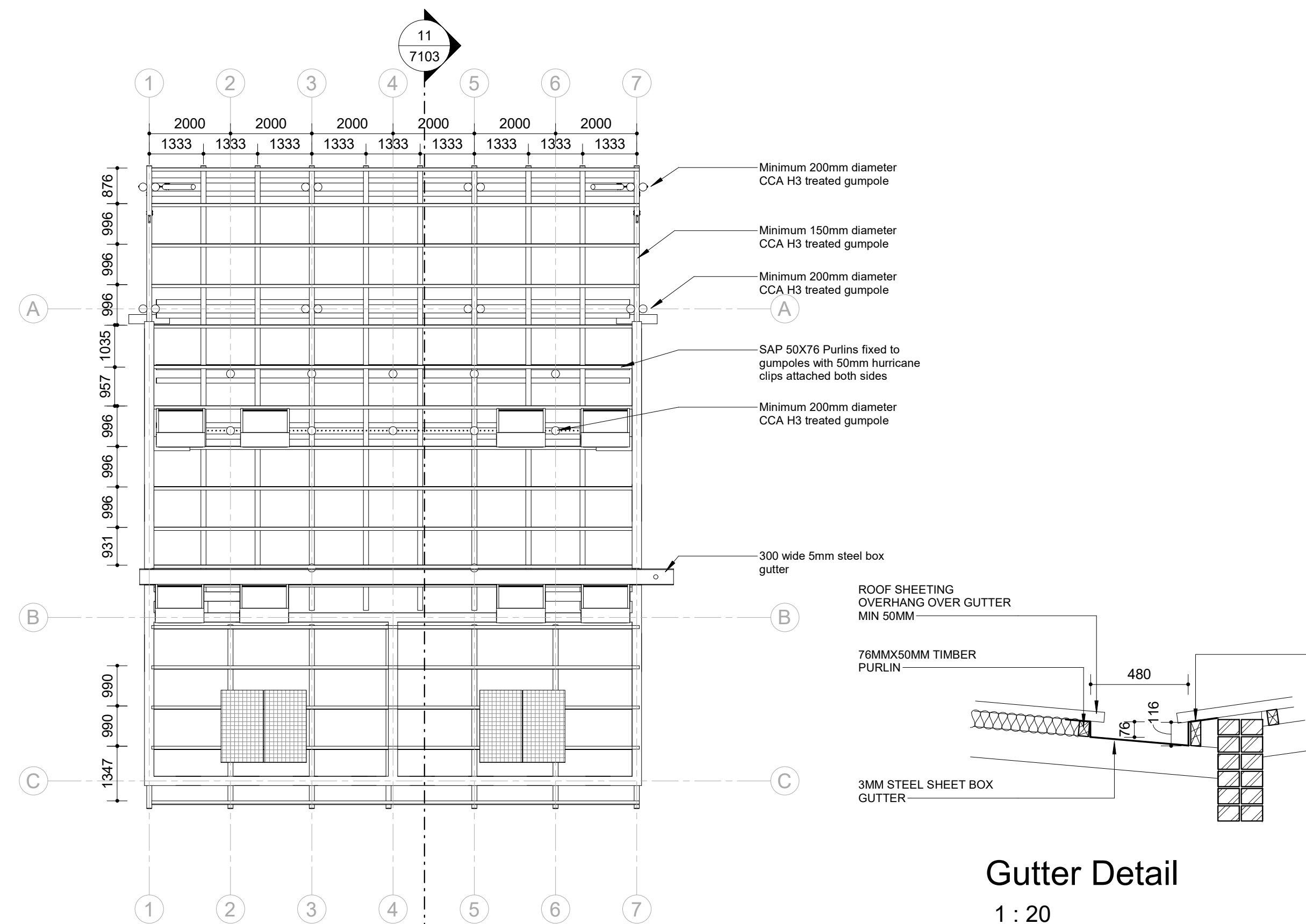
Date	14/03/2022
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Drawn by PM

Checked by	PM
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7103

Scale	As indicated
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[illegible]

Zimbabwe Idai Recovery
Project

Jopa Women's Market

General detailing - Buildings
1-6 - Building Structure
Detailing

Project no. REQ-ZIM 2021-117

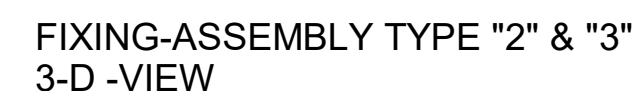
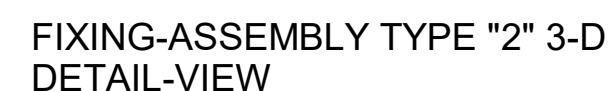
Date	14/03/2022
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Drawn by	JD
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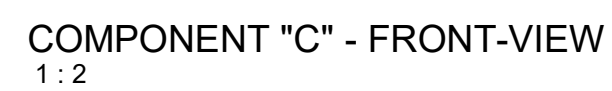
Checked by	PM
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S-500

Scale	As indicated
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- STEEL THICKNESSES INDICATED AS 5mm MAY BE REVISED BASED ON STRUCTURAL ENGINEERS COMMENTS.
- ALL MILD STEEL SHALL BE HOT DIP GALVANISED AFTER FABRICATION OF COMPONENTS.
- FINAL PAINT FINISH TO BE CONFIRMED.

[illegible]

Jopa Women's Market

Scale	As indicated
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R = Mild steel reinforcement to BS 4449
Y = Type 2 High yield reinforcement to BS 4449 or 4461

R = Mild steel reinforcement to BS 4449
Y = Type 2 High yield reinforcement to BS 4449 or 4461

R = Mild steel reinforcement to BS 4449
Y = Type 2 High yield reinforcement to BS 4449 or 4461

R = Mild steel reinforcement to BS 4449
Y = Type 2 High yield reinforcement to BS 4449 or 4461



 Revision

Schedule No.



Zimbabwe Idai Recovery
Project

Jopa Women's Market

Bending Schedules

Project no. REQ-ZIM 2021-117

Date 15/12-2021

Drawn by PM

Checked by _____ PM _____

S-900

Scale As indicated

D2