

CLASSROOM BLOCK - with 3 classrooms - (Black Cotton Soil)


GENERAL NOTES:



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- 3. Written dimensions overrides scaled dimensions.
- 4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
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Program




Enhancing Community
Resilience and Local
Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED THREE CLASSROOMS BLOCK

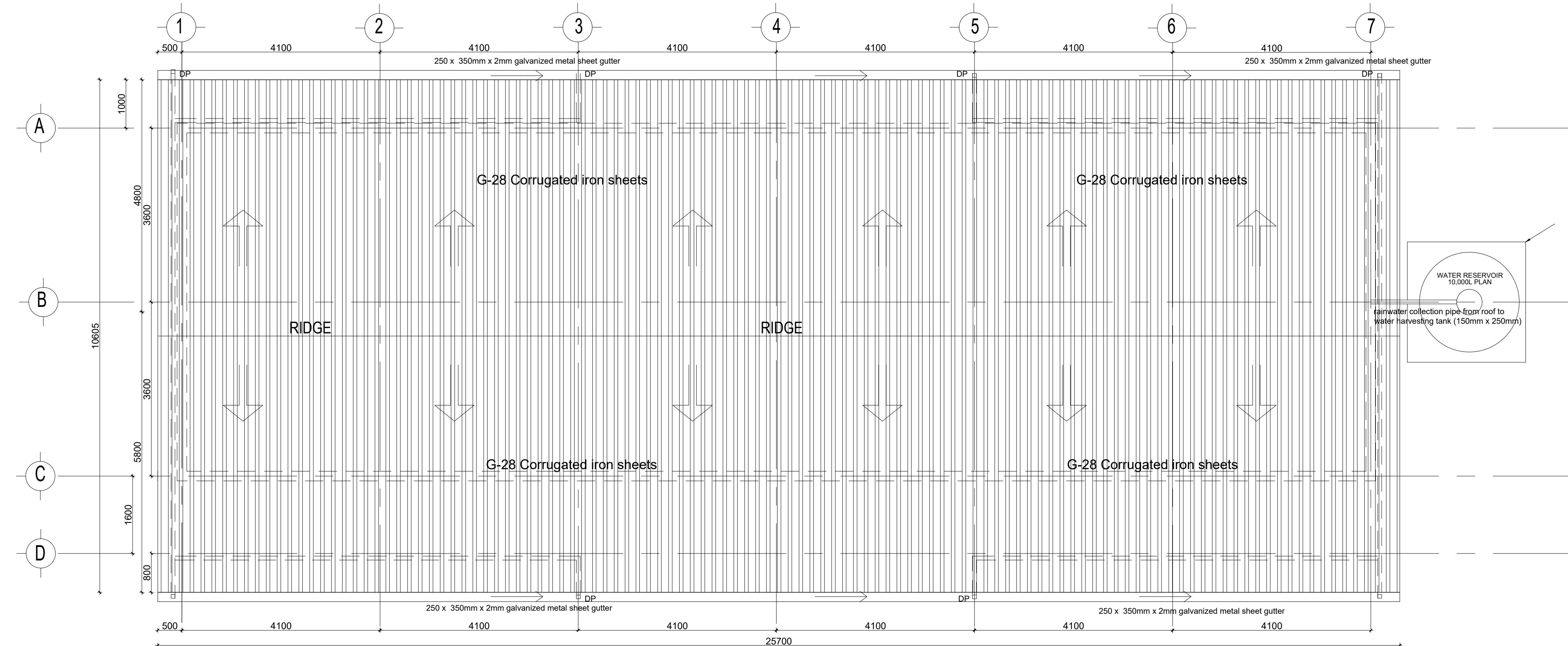
Drawing Tittle

COVER PAGE

Designed By: H.A	Drawn by: H.A
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Date: 10 December 2023	Rev: 0



3 CLASS ROOM BLOCK FLOOR PLAN
Sc. 1:60





3 CLASS ROOM BLOCK ROOF PLAN
Sc. 1:60


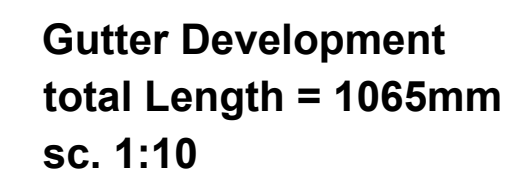
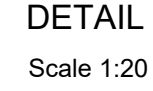
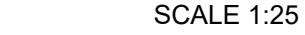
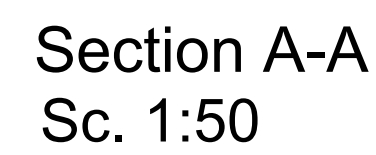
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Program	
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Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED THREE CLASSROOMS BLOCK	
Drawing Title	
FLOOR PLAN AND ROOF PLAN	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 2/9	Scale: AS SPECIFIED
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Enhancing Community Resilience and Local Governance Project

Client:

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Implemented By:	
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Project:

PROPOSED THREE CLASSROOMS BLOCK

Drawing Title

SECTION AND ELEVATIONS

Designed By: H.A

Checked: F.E & G.O

Sheet #:

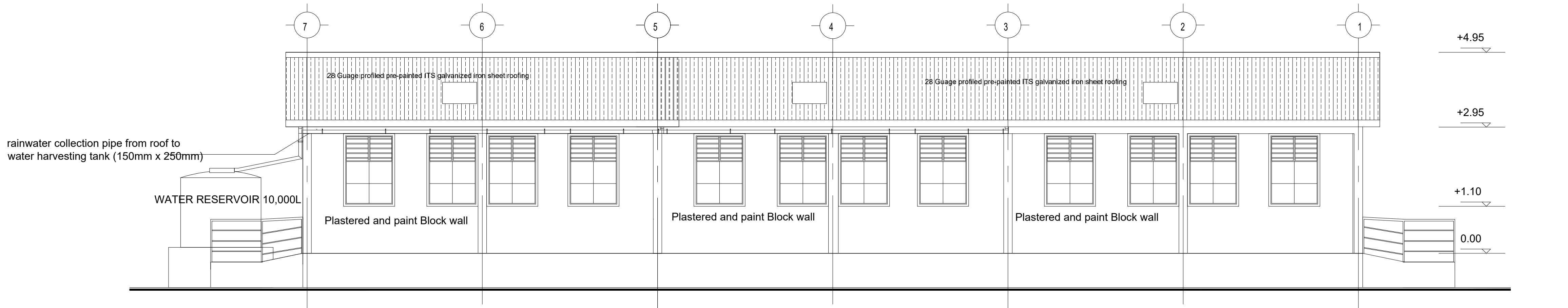
Date: 10 December 2023

Drawn by: H.A

Approved: ----

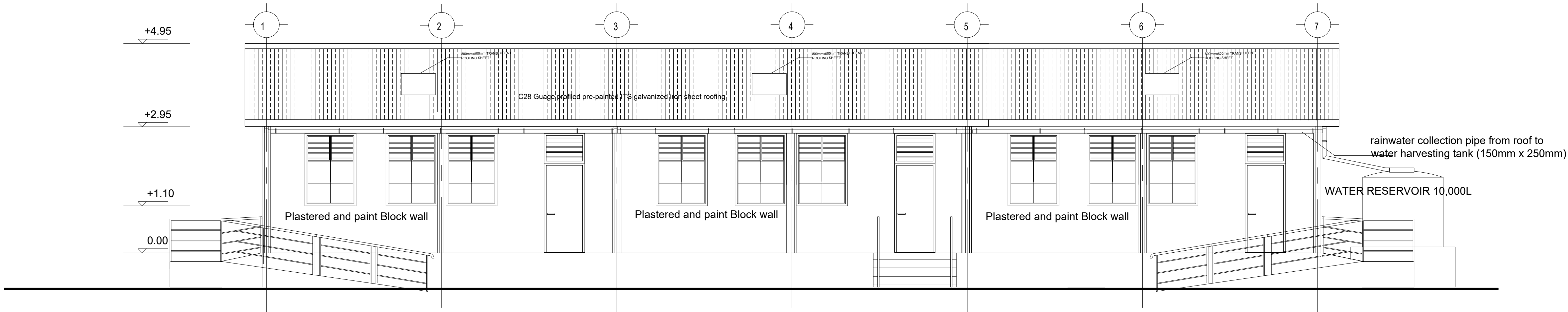
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REAR ELEVATION

Sc. 1:75

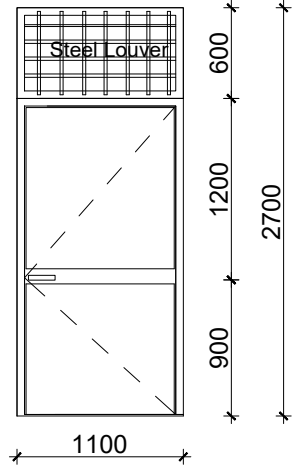


FRONT ELEVATION

Sc. 1:50

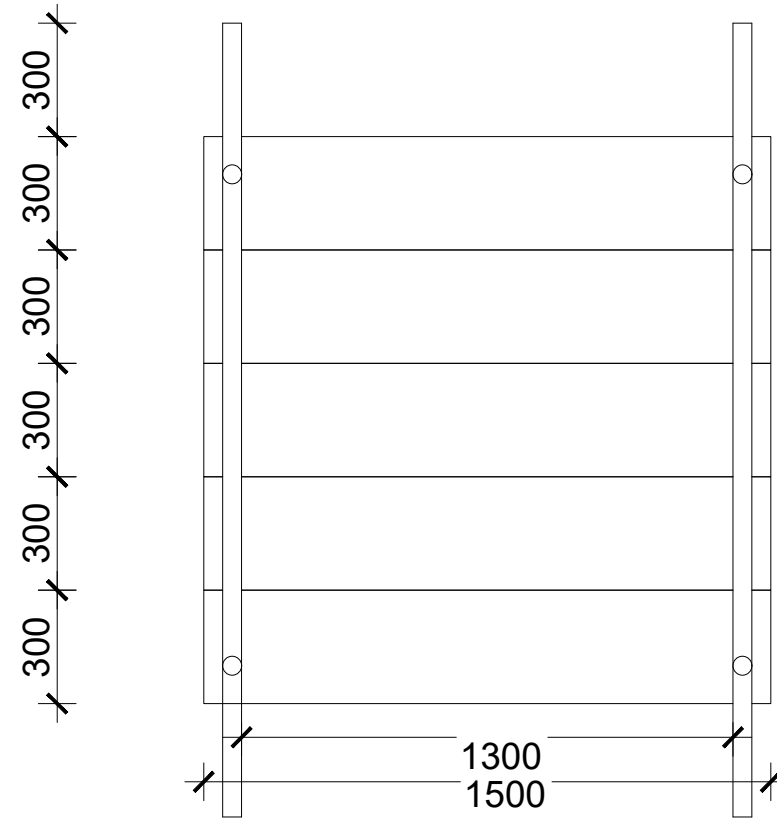
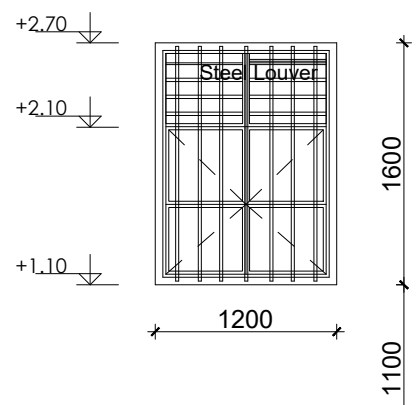
DOOR SCHEDULE

Door Name	D1
Quantity	2
Frame material	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & one coat of enamel paint
Door leaf construction	180D Opening, 0.5mm casement metal pane
Burglar Proofing	RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the exterior side.
Ironmongry	stainless steel pull-push bar handle
Louver	0.5mm thick steel louvers at top welded to RHS frame. Louver to be covered with approved mosquito net.



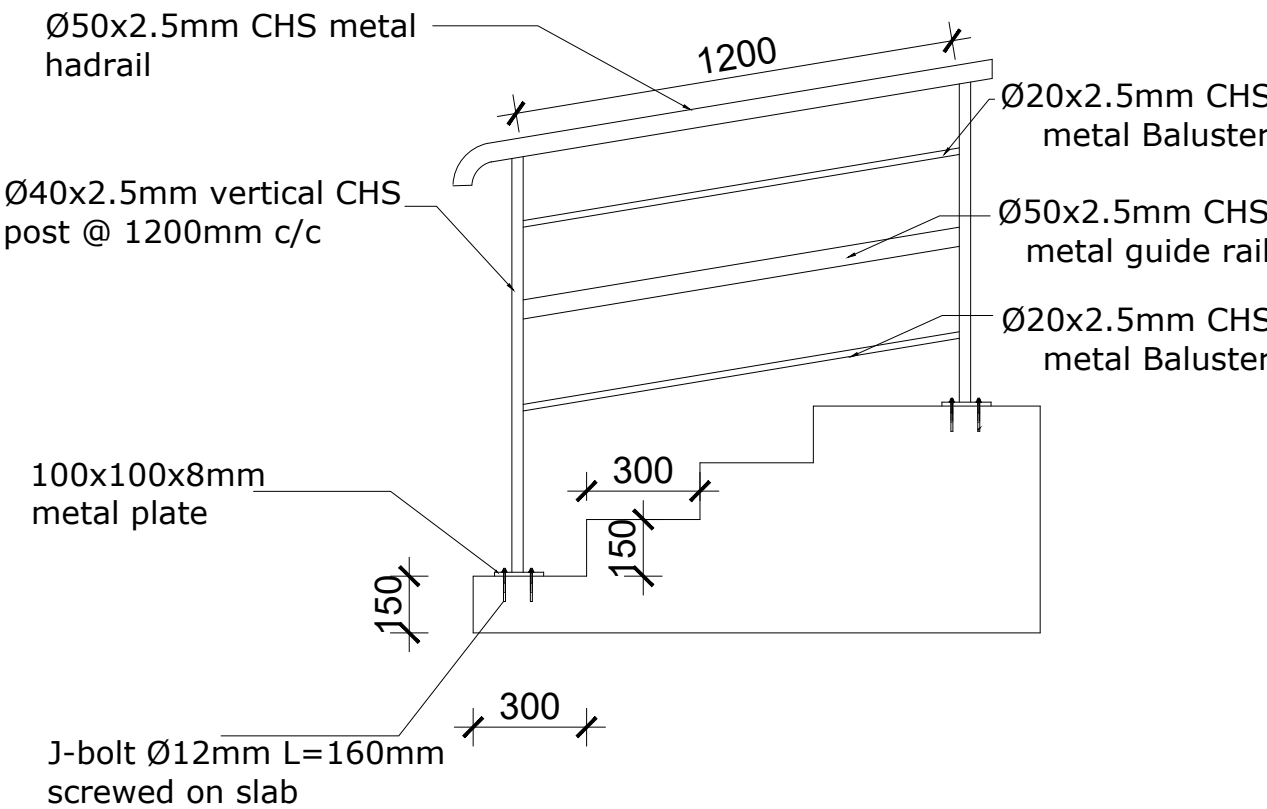
WINDOW SCHEDULE

Window Name	W1
Quantity	14
Frame material	LTZ steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & one coat of enamel paint
Glazing	5mm thick clear glass
Burglar proofing	RHS 25 X 25 X 2 mm steel bars welded to frames at equal spacing behind glazings on the interior side
Louver	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.
Ironmongry	stainless steel pull-push bar handle

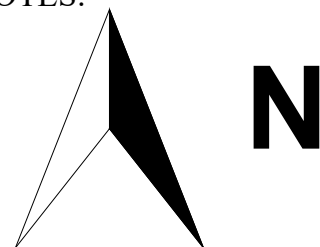


TYPICAL STEP WITH HANDRAIL PLAN

Scale 1:20



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Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED THREE CLASSROOMS BLOCK

Drawing Title

ELEVATIONS AND DOOR & WINDOWS SCHEDULE

Designed By:	H.A	Drawn by:	H.A
Checked:	F.E & G.O	Approved:	----
Sheet #:	4/9	Scale:	AS SPECIFIED
Date:	10 December 2023	Rev:	0

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- II) Stone masonry foundation shall be placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m2. . The top 500 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
- III) Foundation trench excavation to be approved by the Engineer prior to the construction of the stone masonry foundation.

IV) Material Specification

A) Grade of Structural Concrete

C-25 (Cube characteristics strength of 25 MPa) for columns and beams;

C-20 (Cube characteristics strength of 20 MPa) for floor slab)

B) Concrete reinforcement bar

Grade 460 (Characteristics yield strength of $f_yk = 460$ MPa)

C) Steel hollow section for roofing system, verandah column and plates

Grade C: Tensile Strength = 375 Mpa

Yield Strength = 275 Mpa

D) Grade of Bolts

Grade 4.6: Yield Strength = 240 Mpa

Tensile Strength = 400 Mpa

V) Durability Requirements

❖ Concrete Cover to Reinforcement

- Floor slabs: 25mm.
- Beams: 25mm
- Columns: 38mm
- All substructure (below the ground level): 50mm

❖ Protection of steel work

- Surface preparation by blast cleaning, pickling process or where approved by wire brushing

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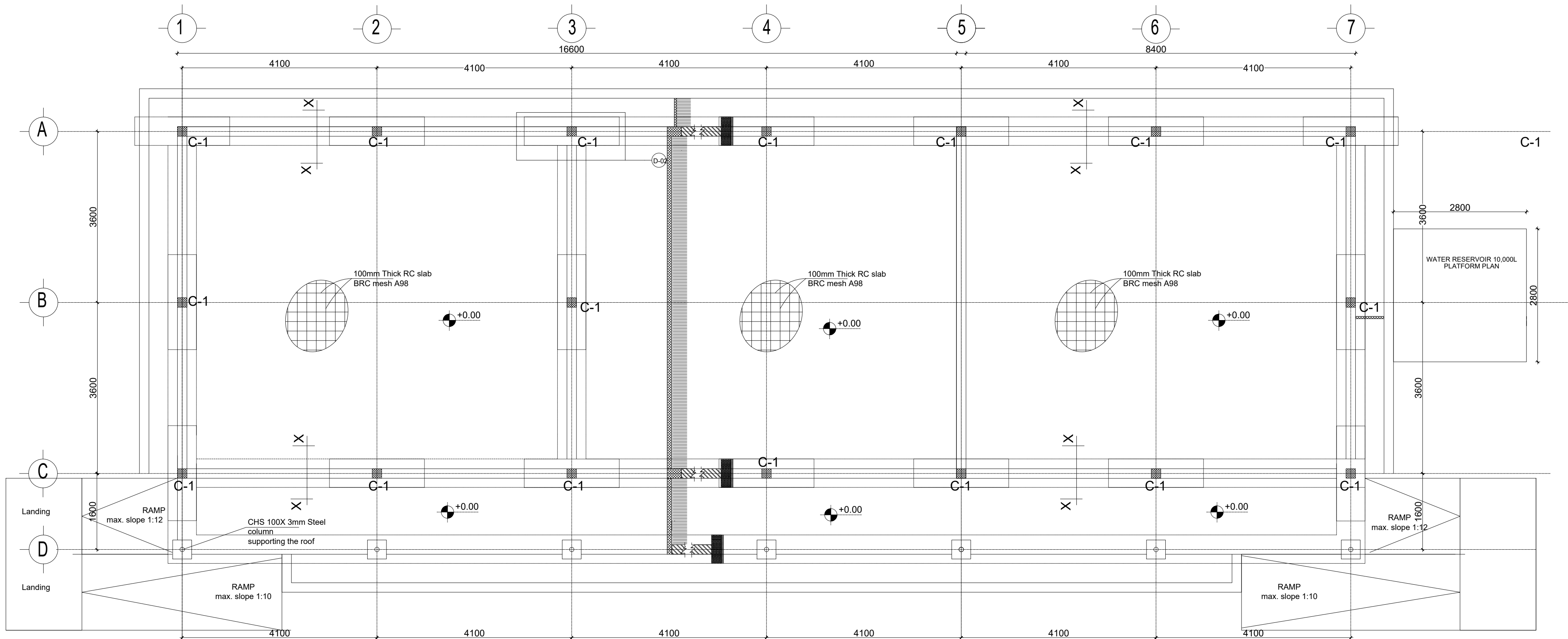
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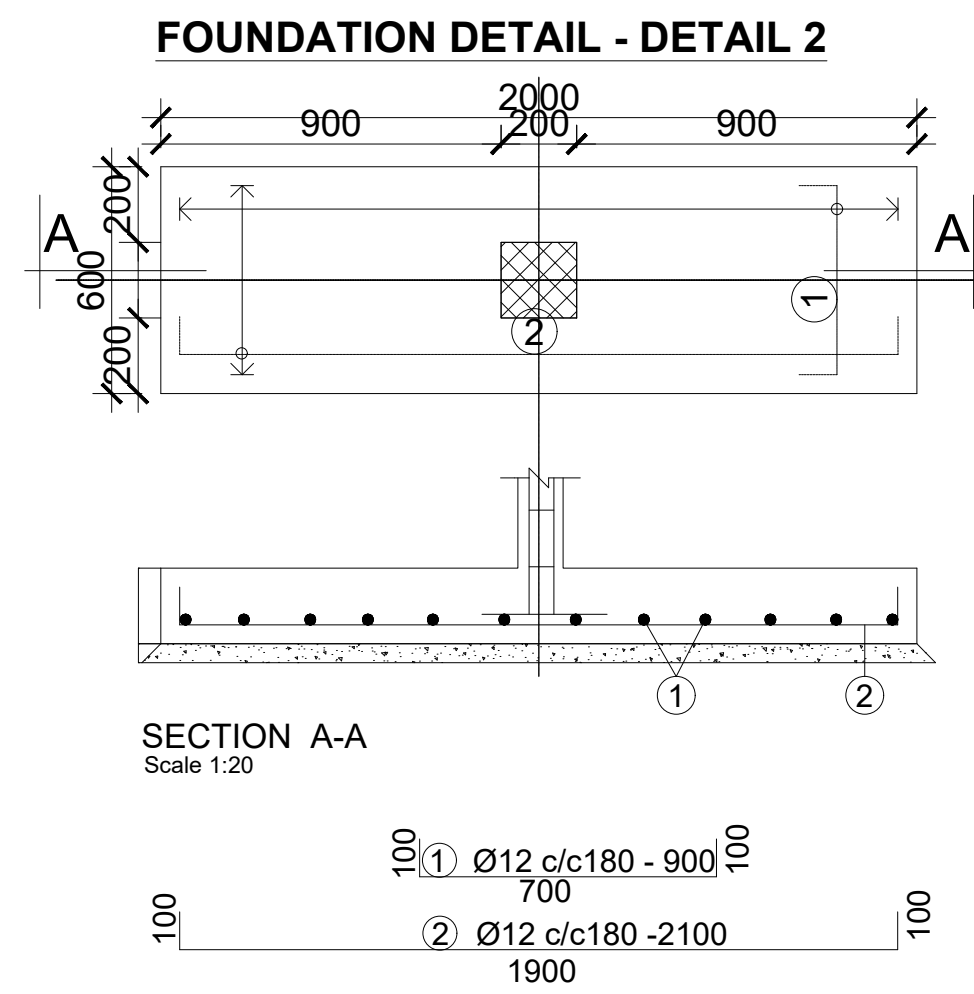
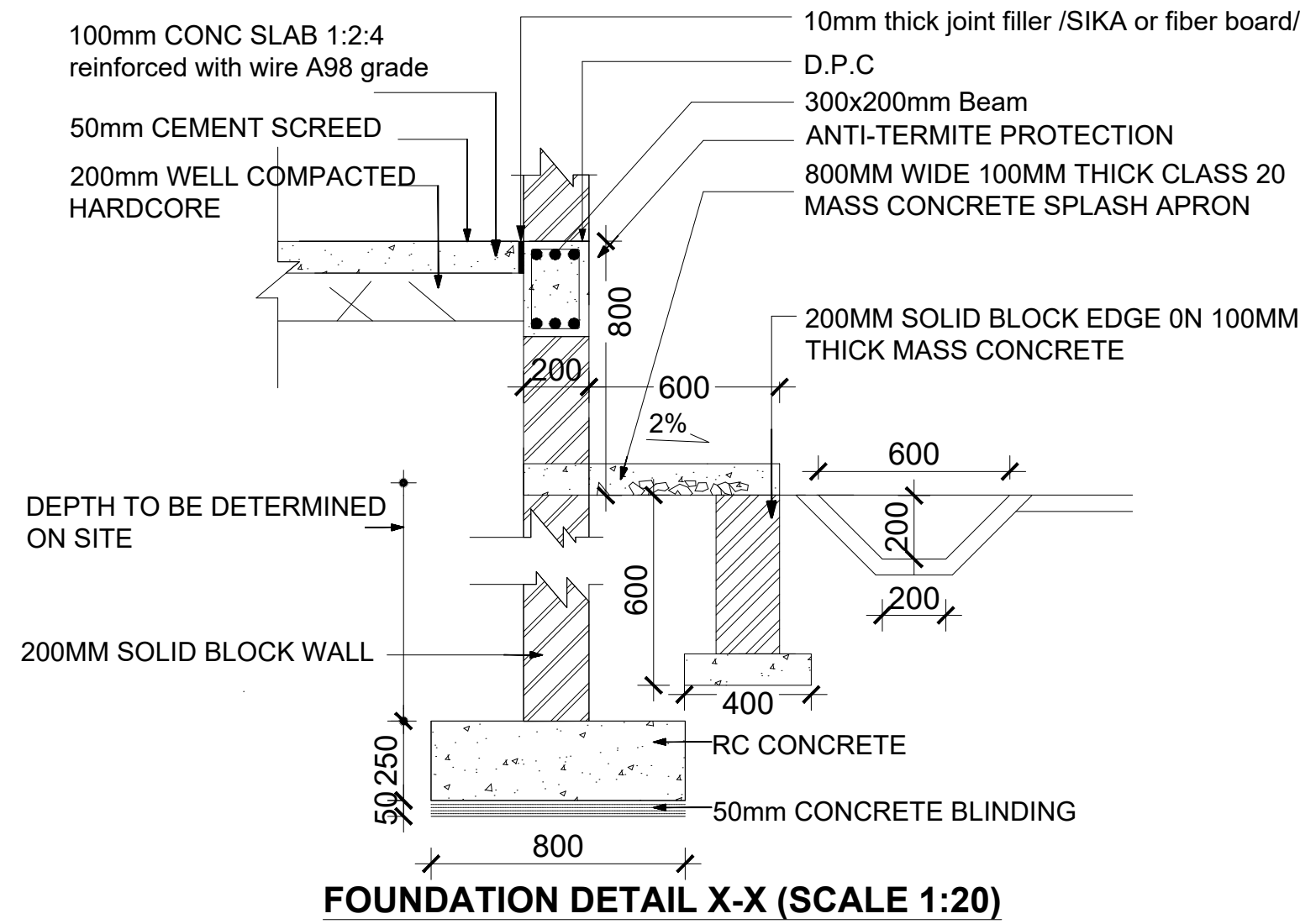
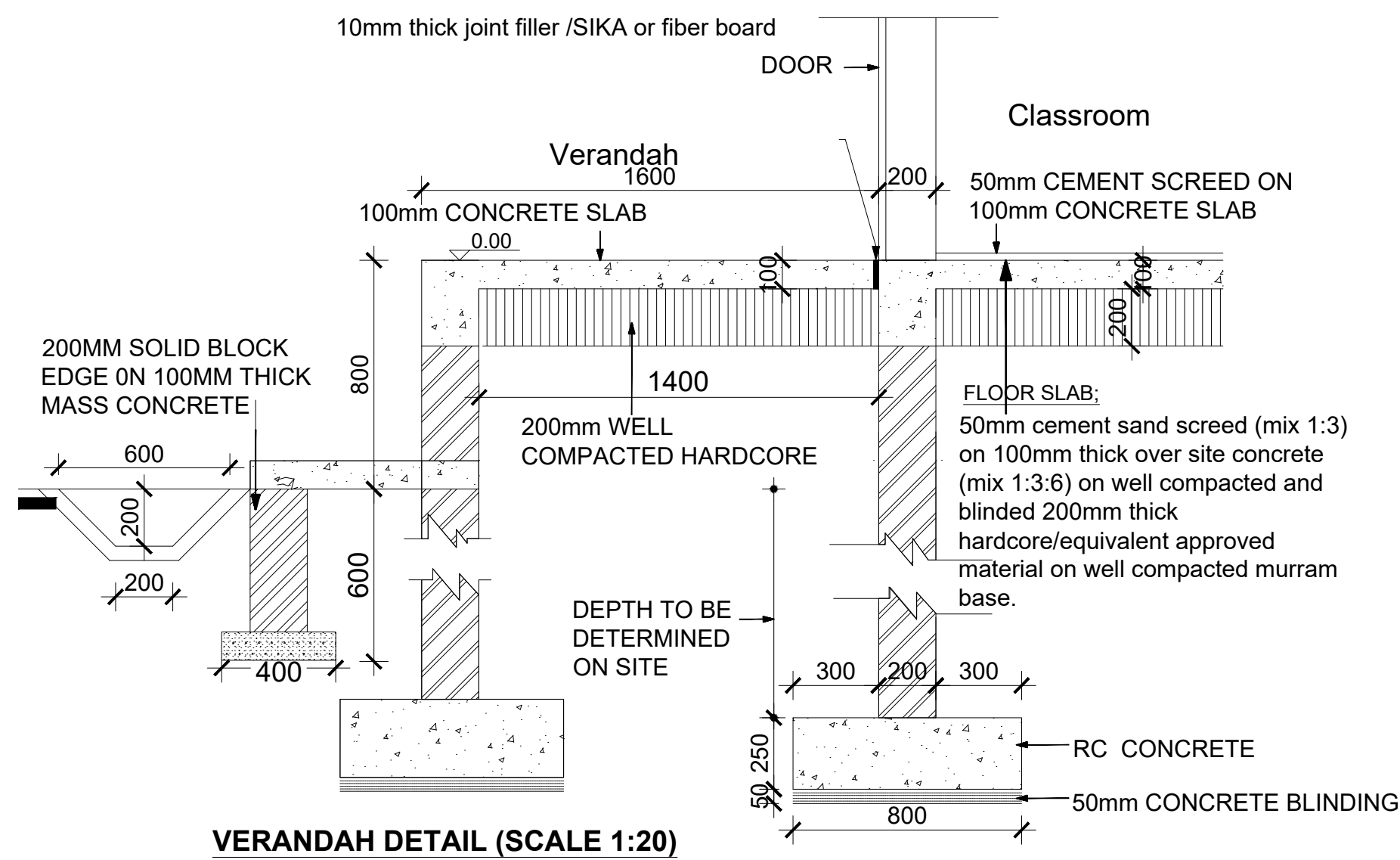
Project:

PROPOSED THREE CLASSROOMS BLOCK

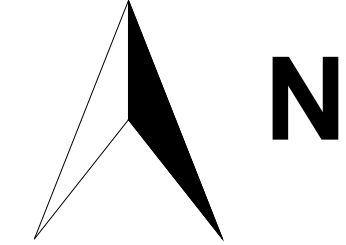
Drawing Title			
STRUCTURAL NOTES			
Designed By: H.A		Drawn by: H.A	
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Sheet #: 5/9		Scale: AS SPECIFIED	
Date: 10 December 2023		Rev: 0	



(3 CLASS ROOM BLOCK)
GROUND FLOOR SLAB REINFORCEMENT , BEAM AND COLUMN LAYOUT
(slab thickness =100mm)
SCALE 1:50



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 - B) Concrete reinforcement bar
 - Grade 460 (Characteristics yield strength of fyk = 460 MPa)
 - C) Steel hollow section for roofing system, verandah column and plates
 - Grade C: Tensile Strength = 375 Mpa
 - Yield Strength = 275 Mpa
 - D) Grade of Bolts
 - Grade 4.6: Yield Strength = 240 Mpa
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Program



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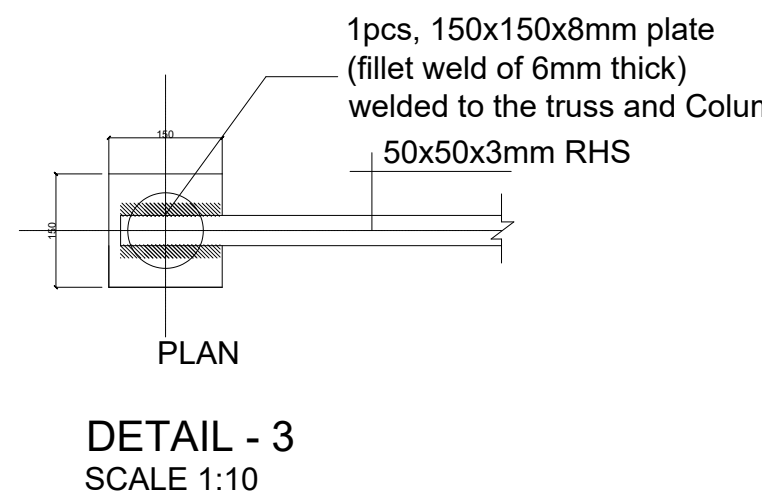
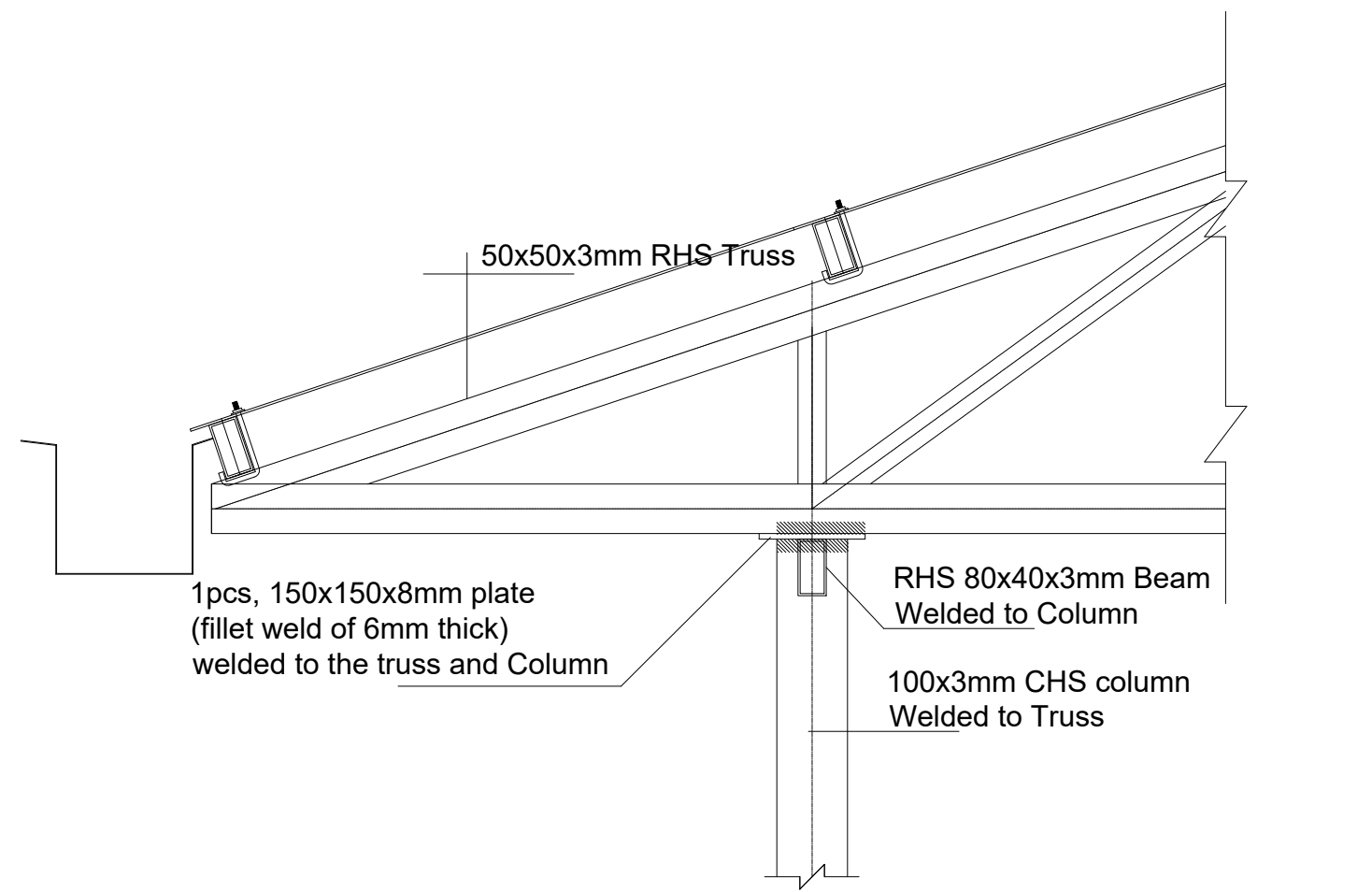
Project:

PROPOSED THREE CLASSROOMS BLOCK

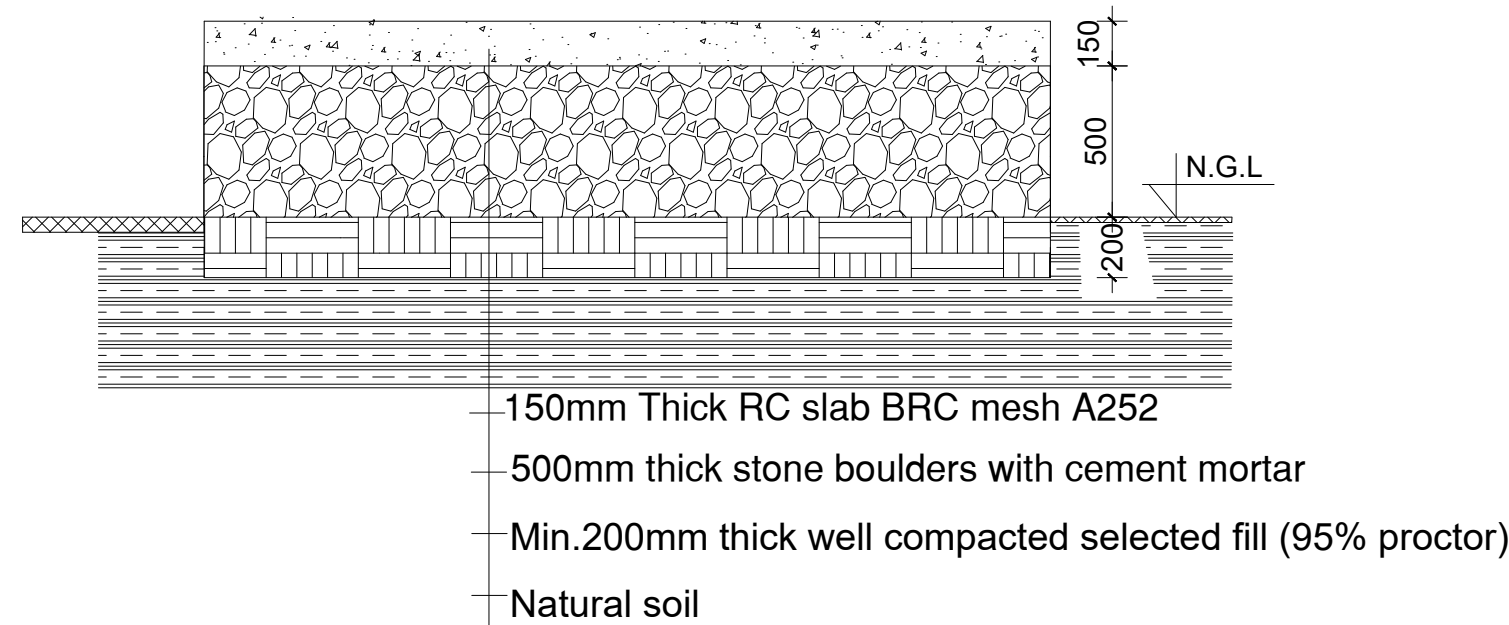
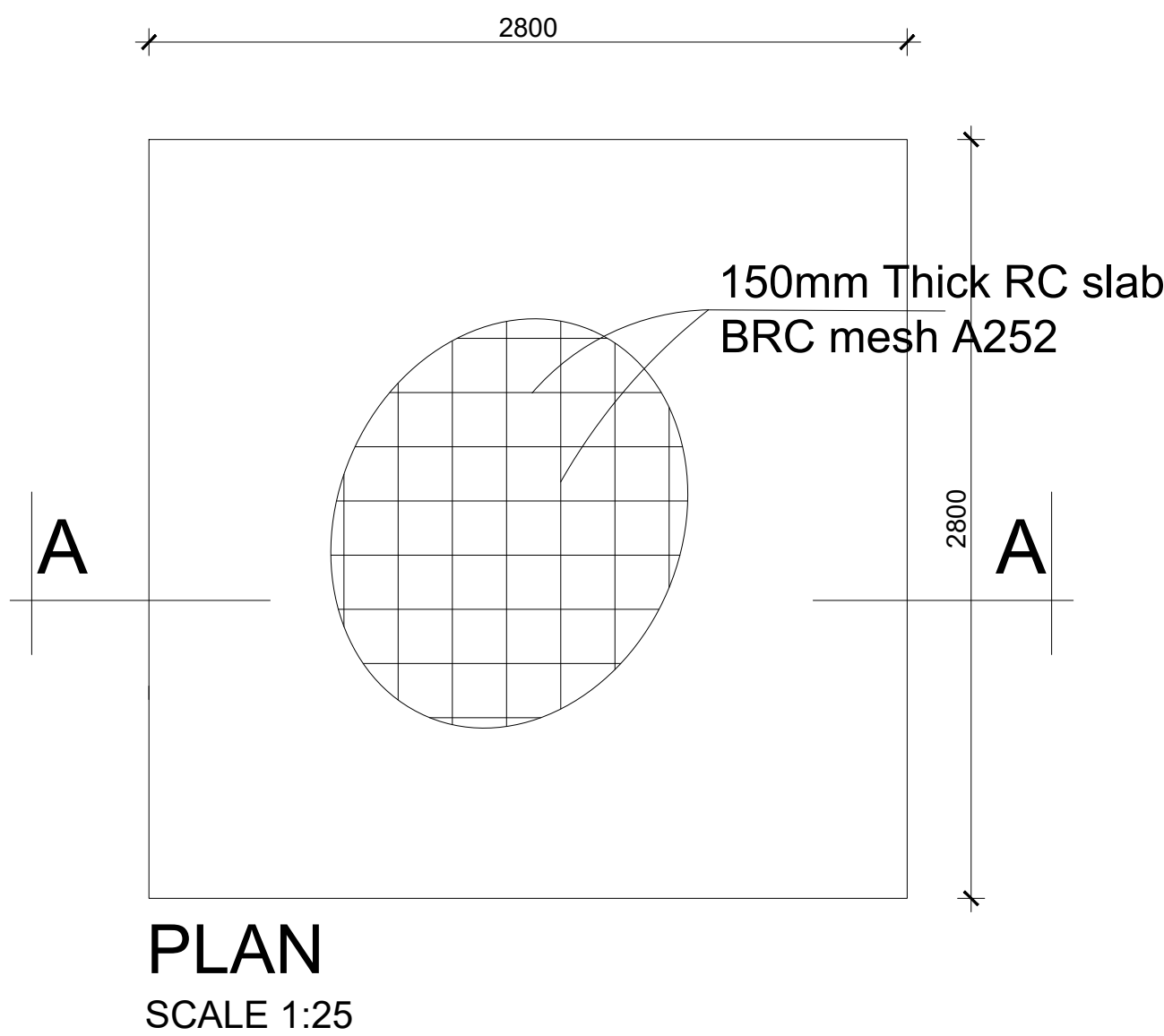
Drawing Title

FOUNDATION PLAN AND FOUNDATION DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 6/9	Scale: AS SPECIFIED
Date: 10 December 2023	Rev: 0

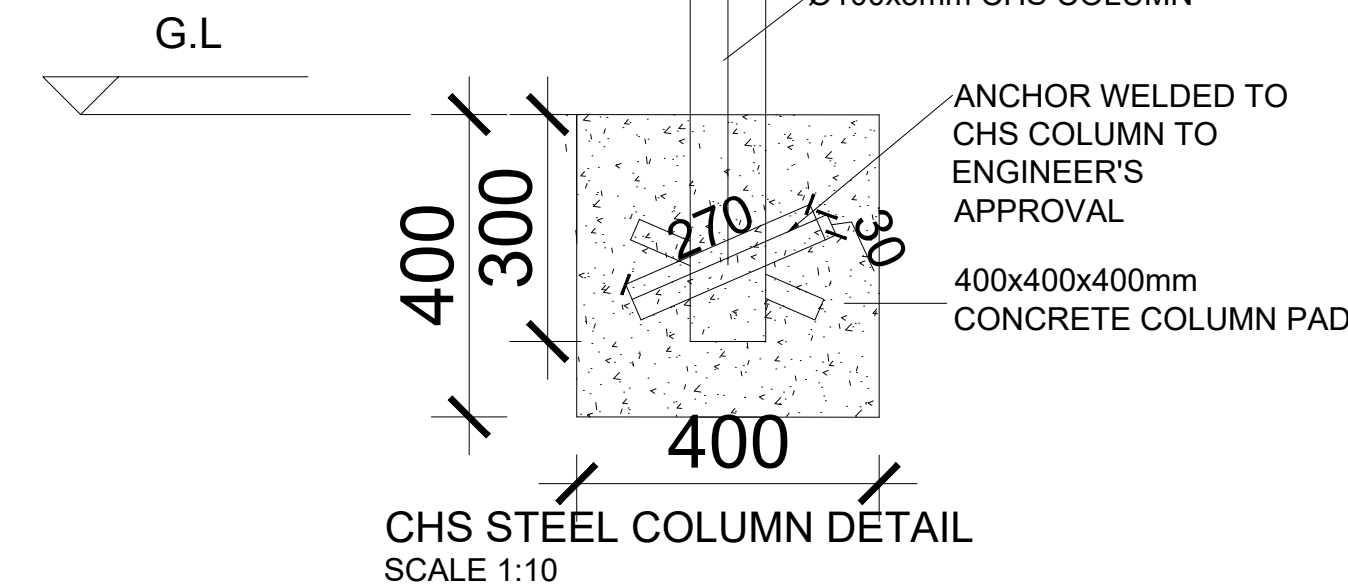
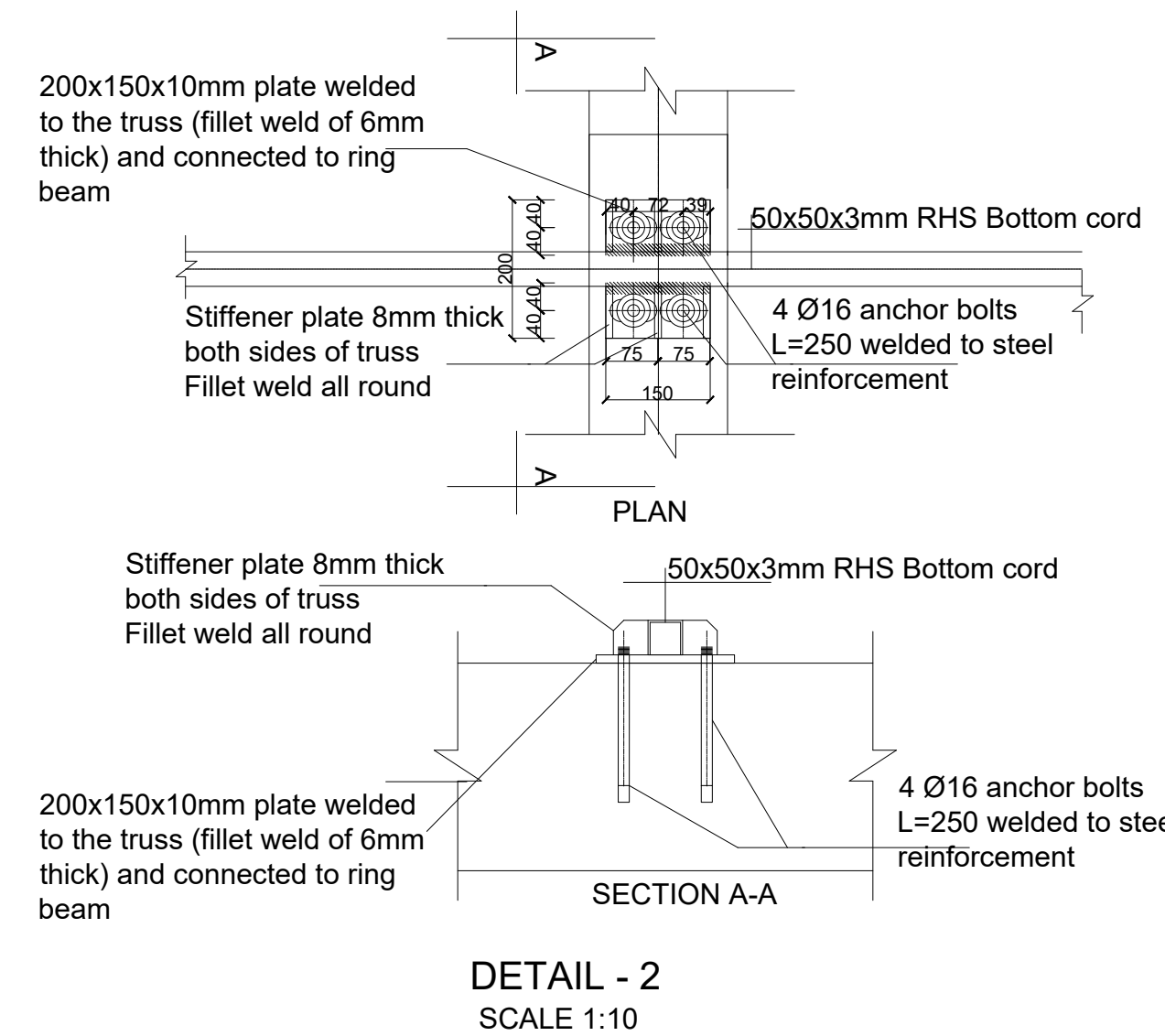
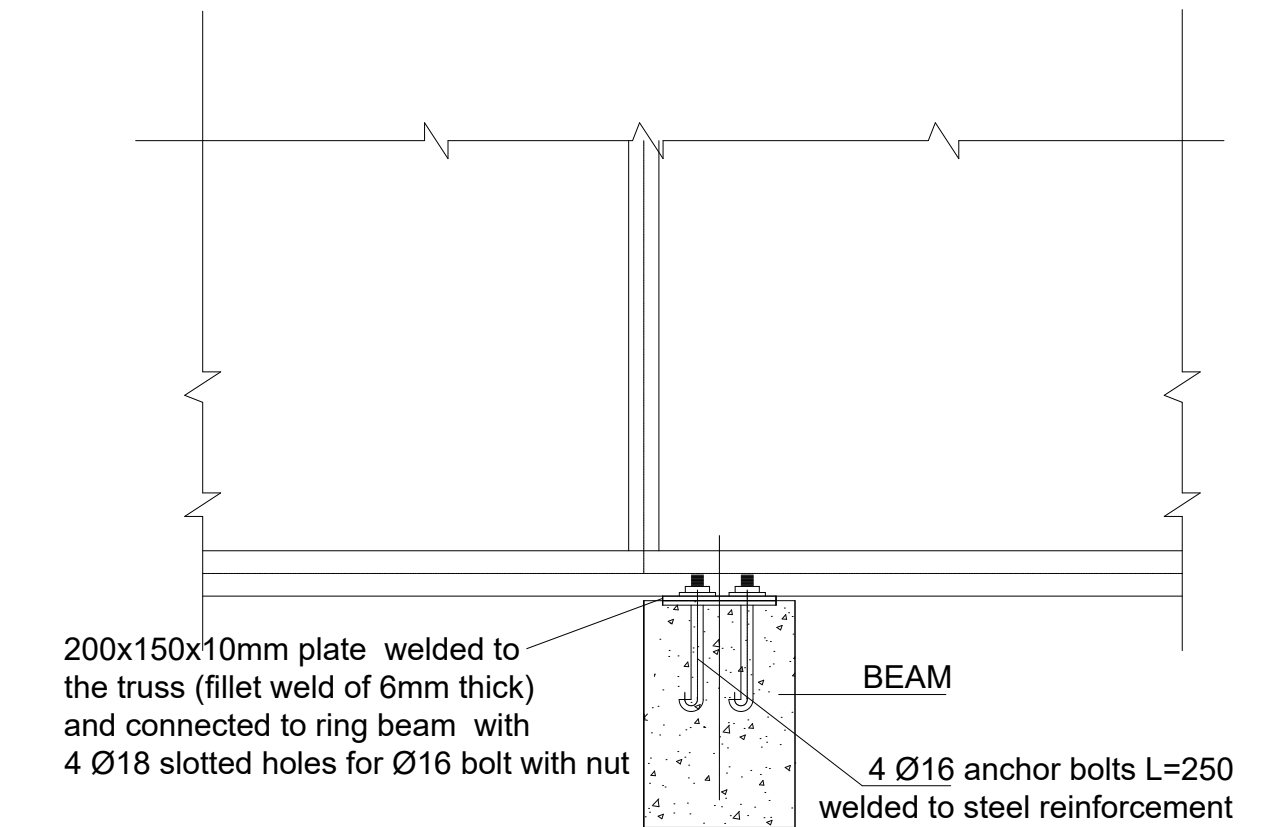
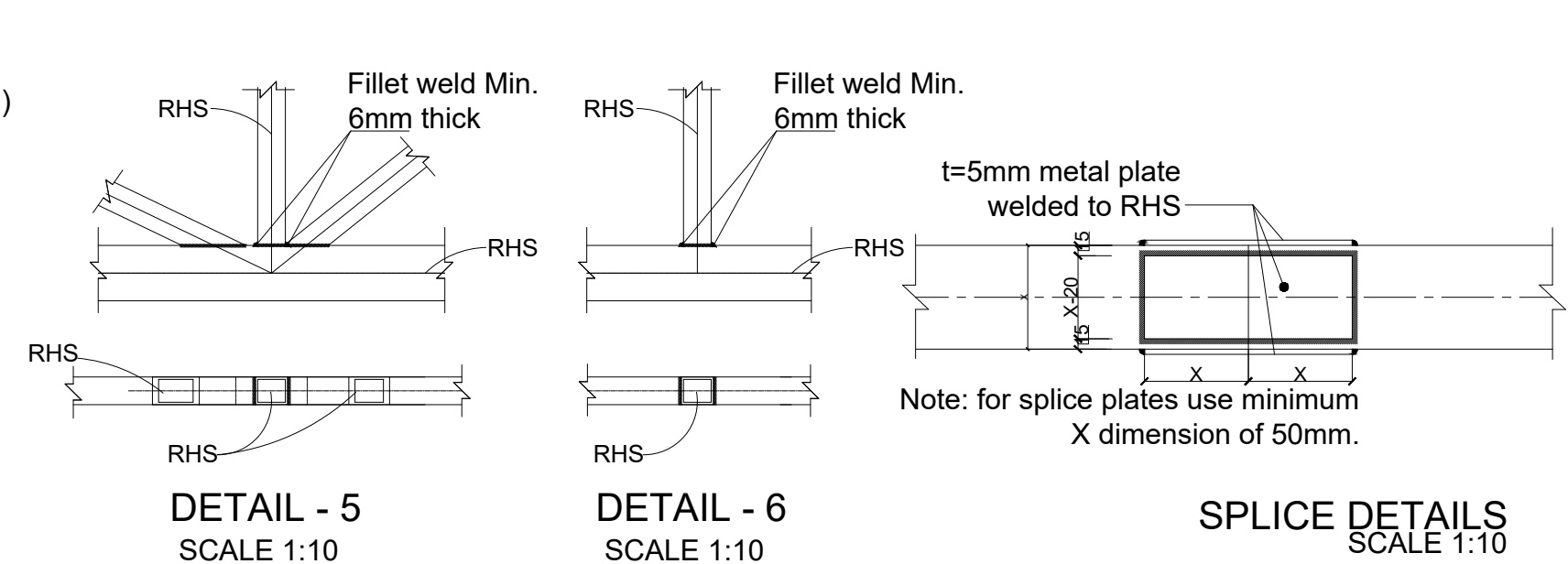
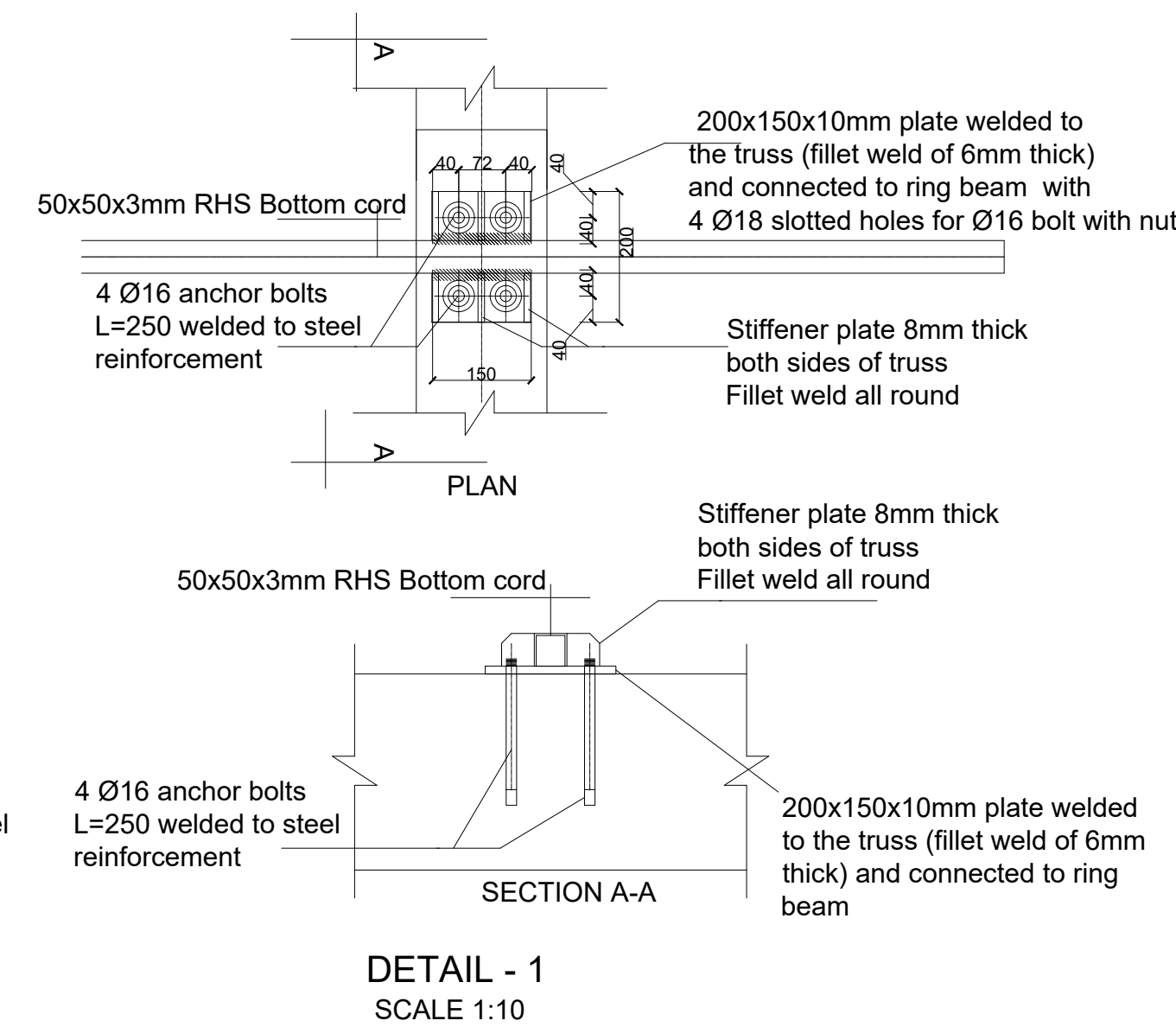
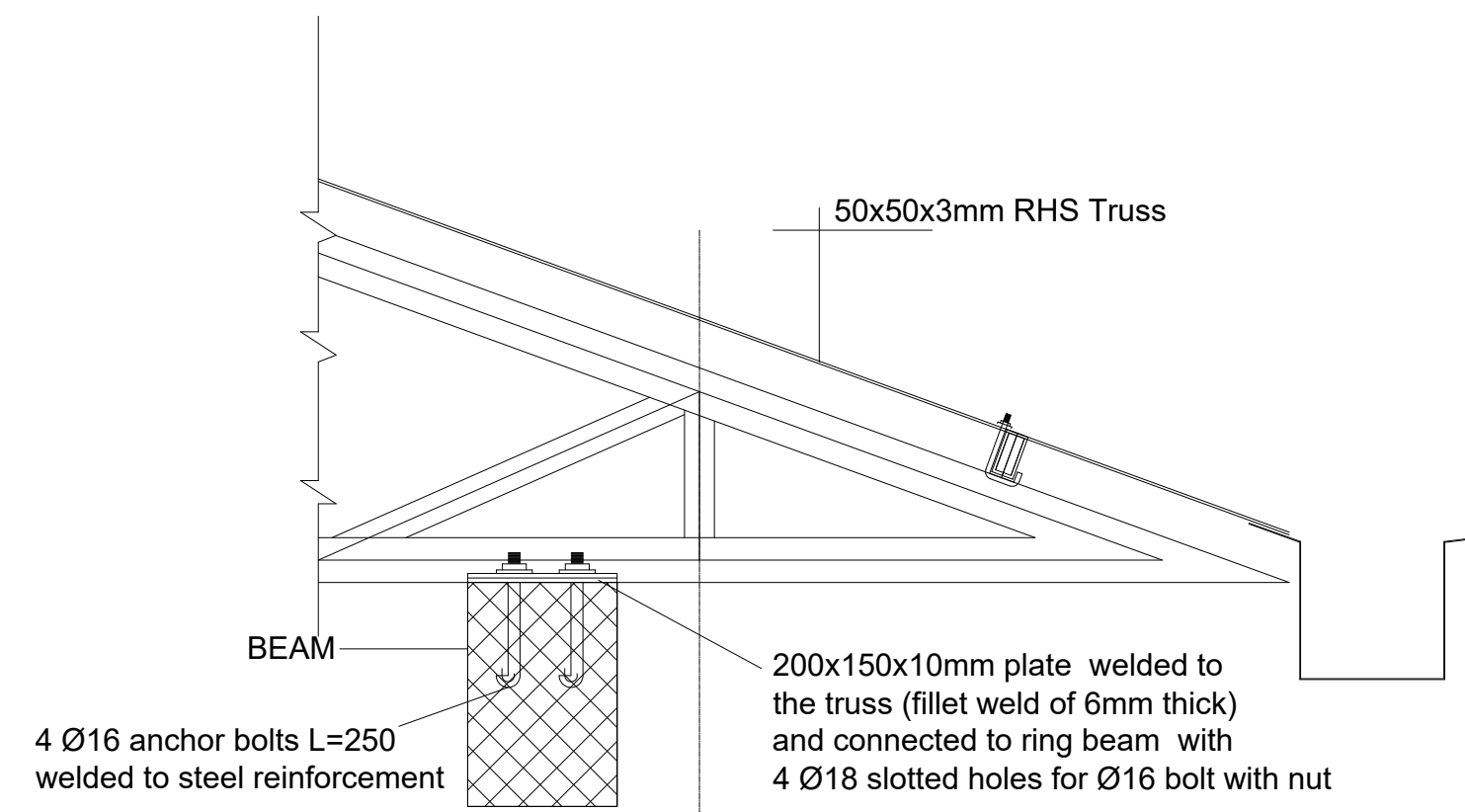
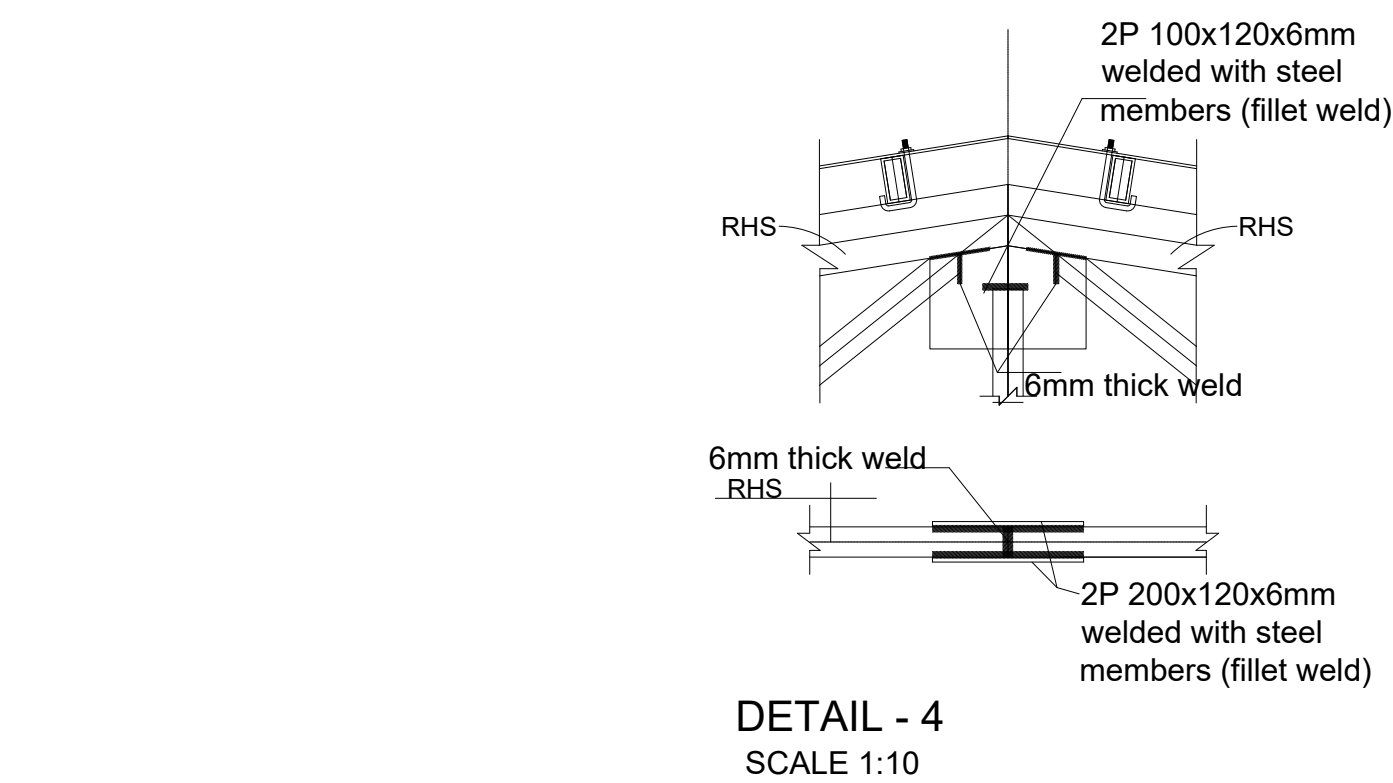


WATER RESERVOIR PLATFORM PLAN



SECTION A-A

SCALE 1:25



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 - B) Concrete reinforcement bar
 - Grade 460 (Characteristics yield strength of fyk = 460 MPa)
 - C) Steel hollow section for roofing system, verandah column and plates
 - Grade C: Tensile Strength = 375 Mpa
 - Yield Strength = 275 Mpa
 - D) Grade of Bolts
 - Grade 4.6: Yield Strength = 240 Mpa
 - Tensile Strength = 400 Mpa

- V) Durability Requirements
 - Concrete Cover to Reinforcement
 - Floor slabs: 25mm.
 - Beams: 25mm
 - Columns: 38mm
 - All substructure (below the ground level): 50mm
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Program



Client:

GOVERNMENT OF SOUTH SUDAN

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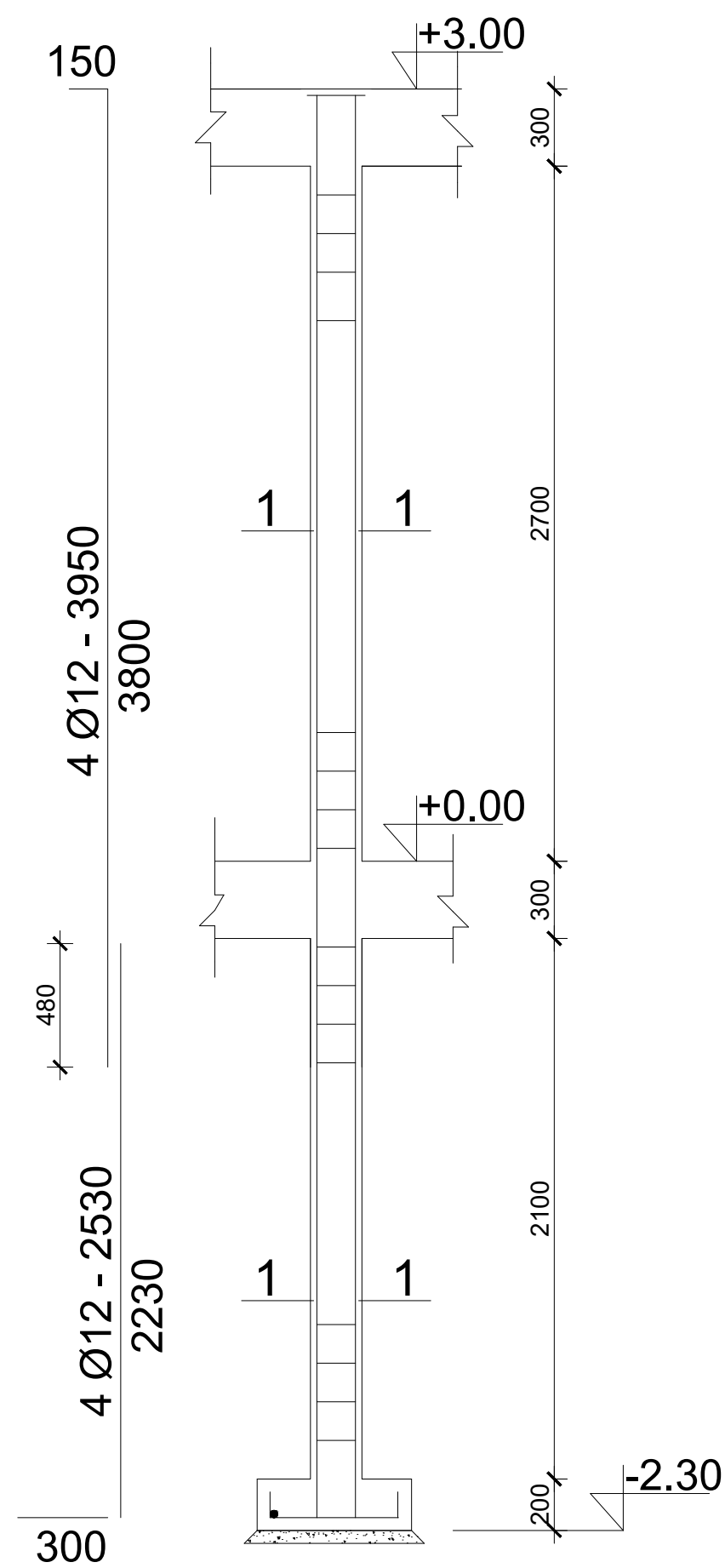
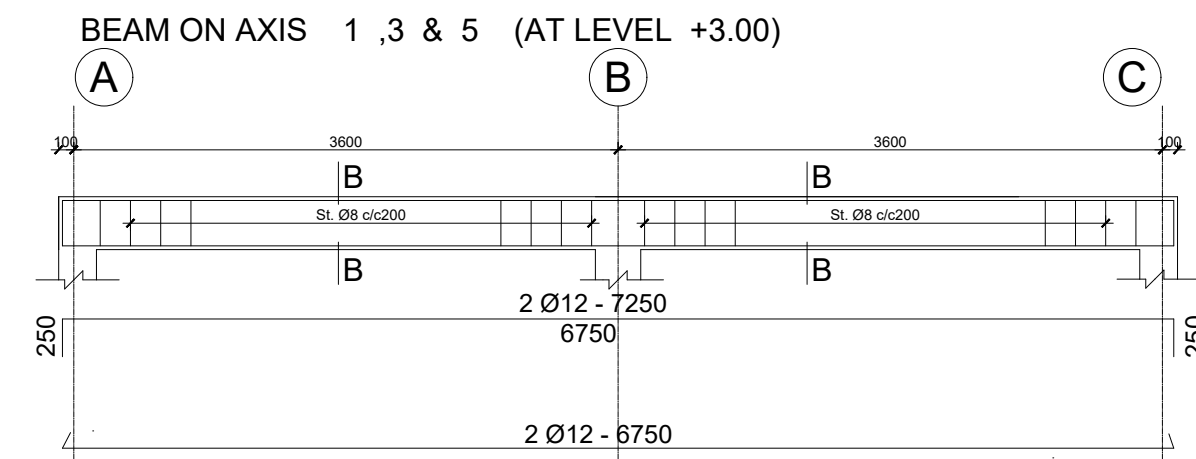
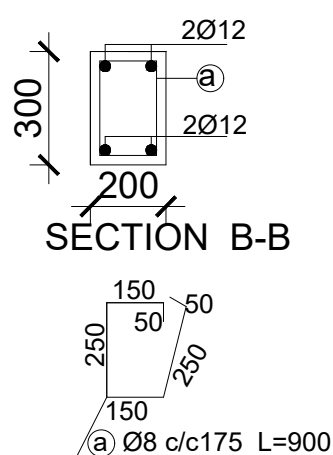
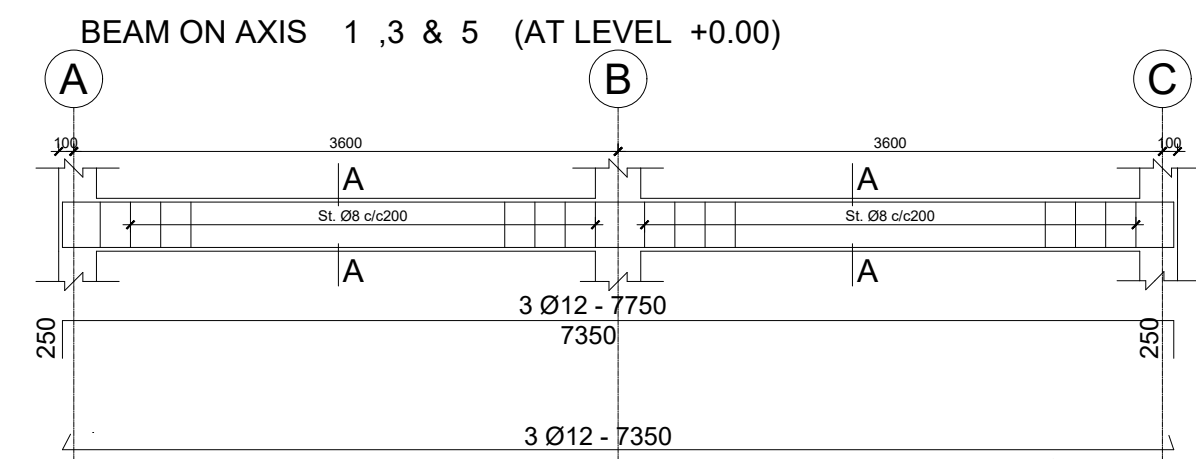
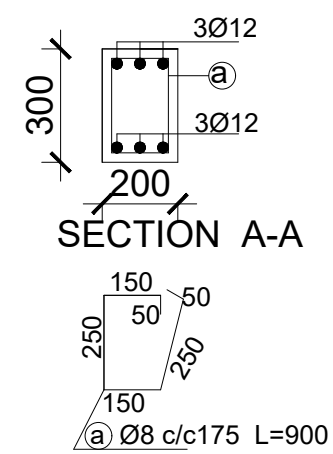
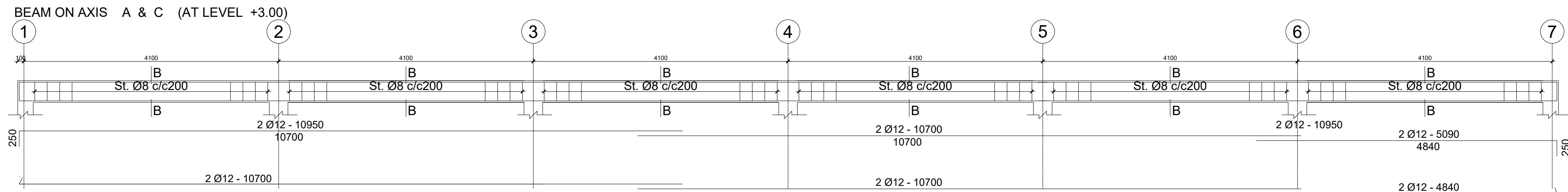
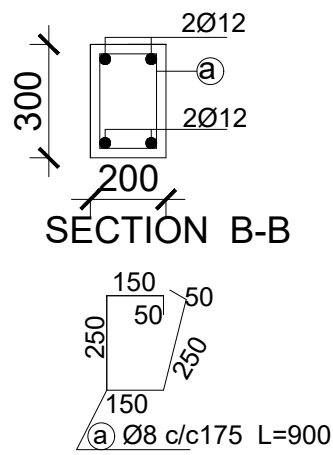
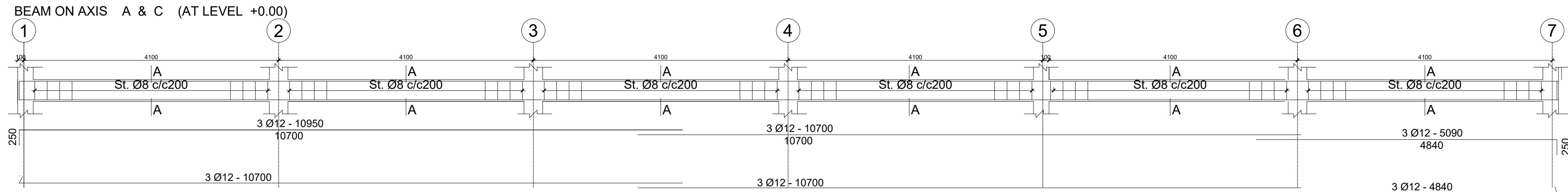
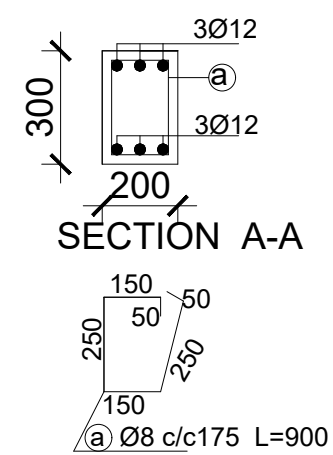
Project:

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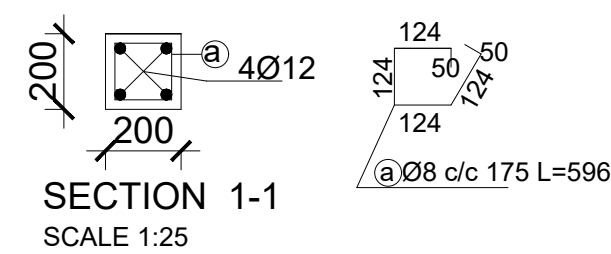
Drawing Title

TRUSS, BEAM AND COLUMN DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 8/9	Scale: AS SPECIFIED
Date: 10 December 2023	Rev: 0



COLUMN C-1
SCALE 1:25



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PROPOSED THREE CLASSROOMS BLOCK

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TRUSS, BEAM AND COLUMN DETAILS

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