

CLASSROOM BLOCK - with 4 classrooms - (Black Cotton Soil)


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Program




Enhancing Community
Resilience and Local
Governance Project
Phase II (ECRP II)

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED FOUR CLASSROOMS BLOCK

Drawing Tittle

COVER PAGE

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

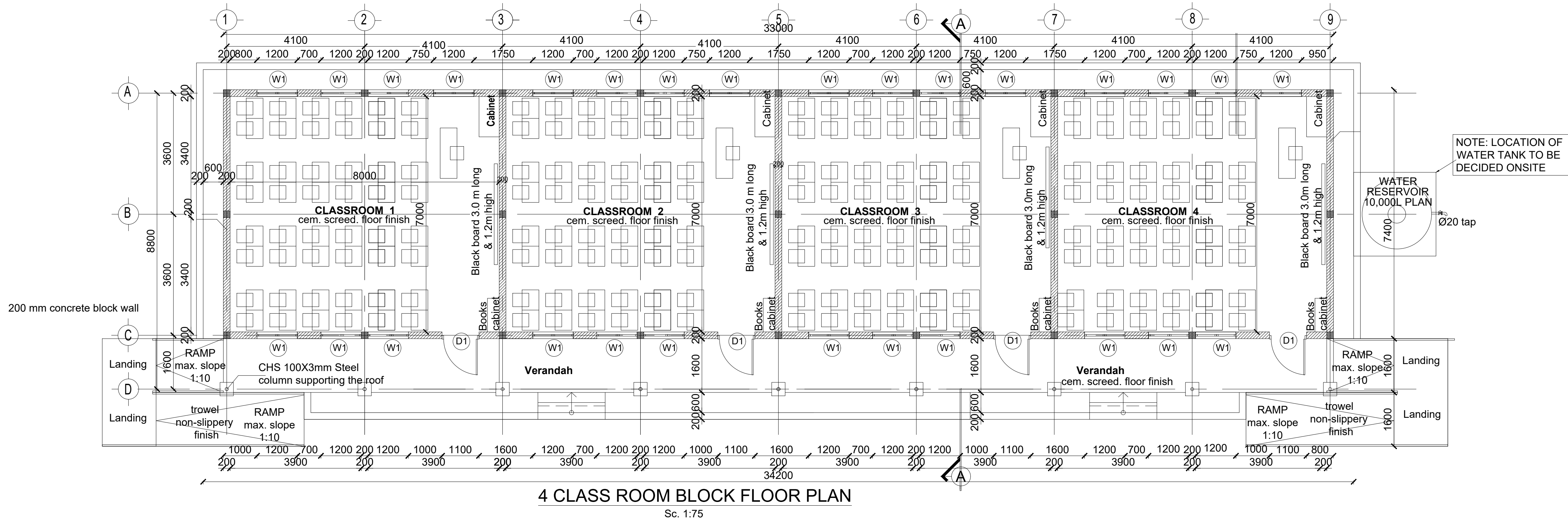
Approved: ----

Sheet #: 1/9

Scale: AS SPECIFIED

Date: 7 January 2024

Rev: 0

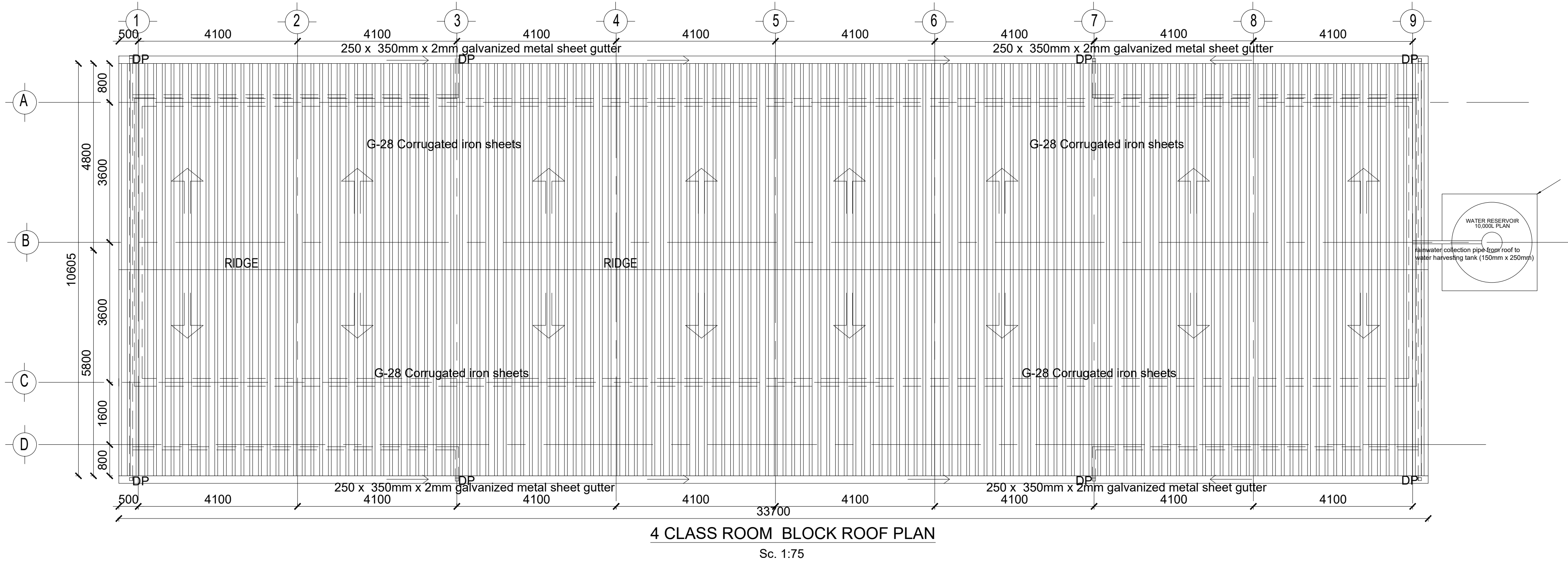
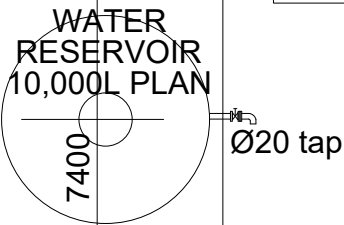


GENERAL NOTES:





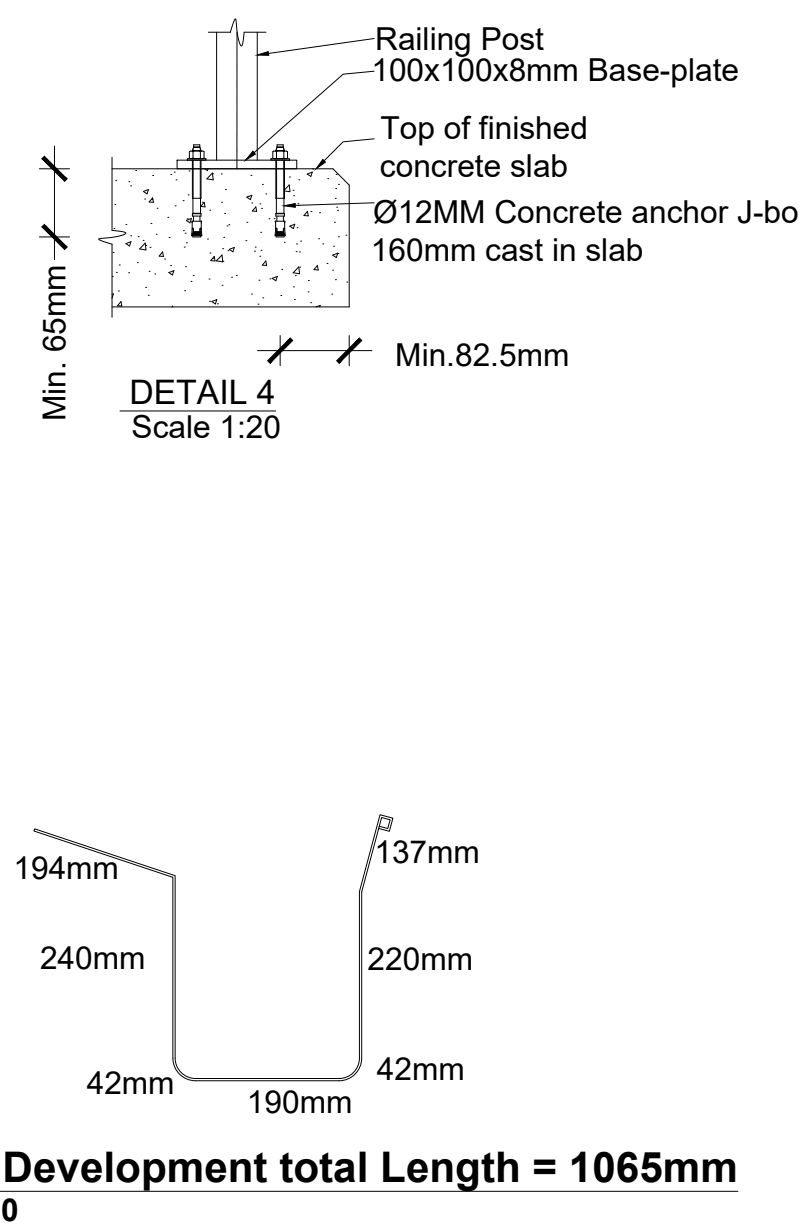
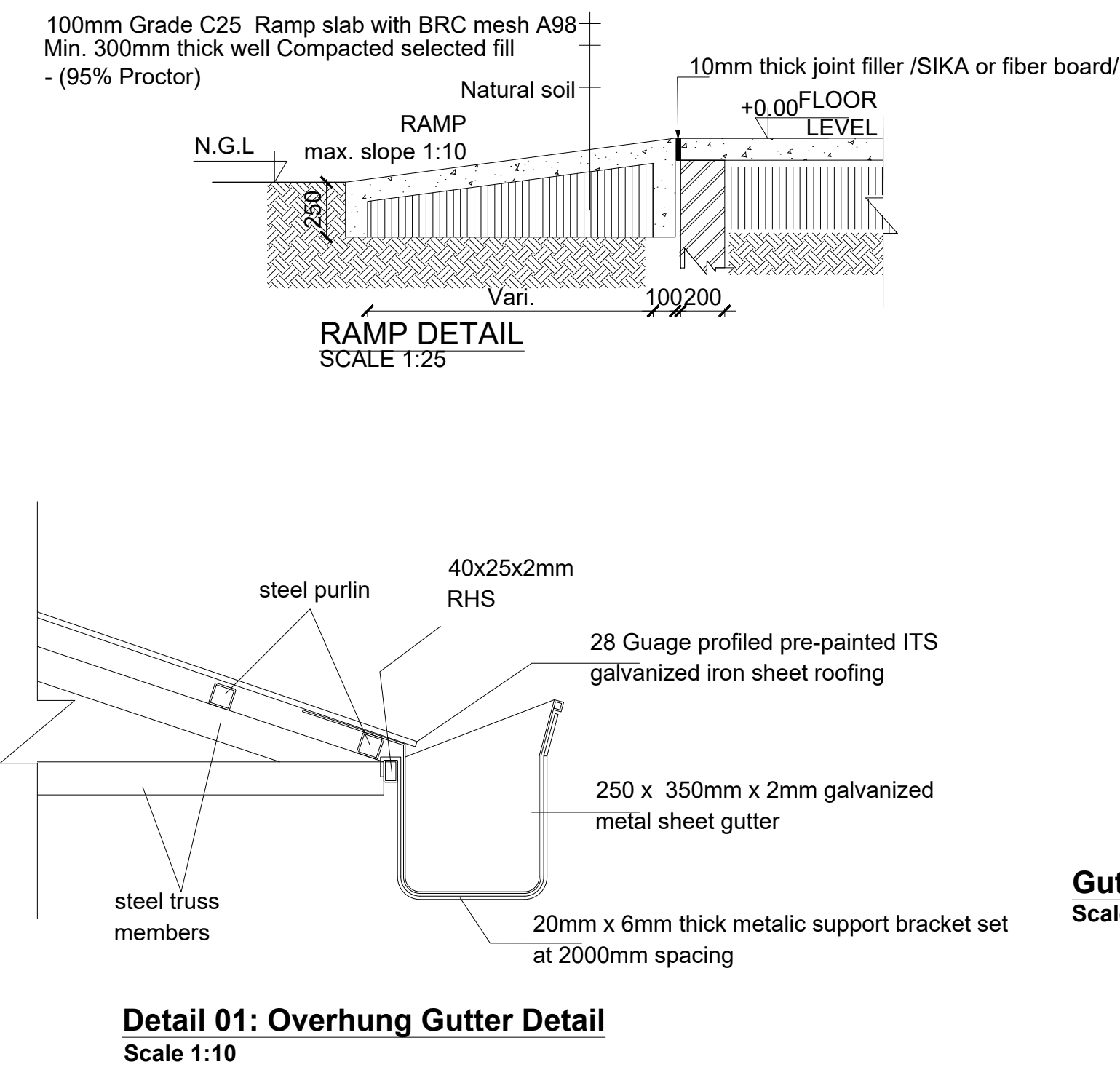
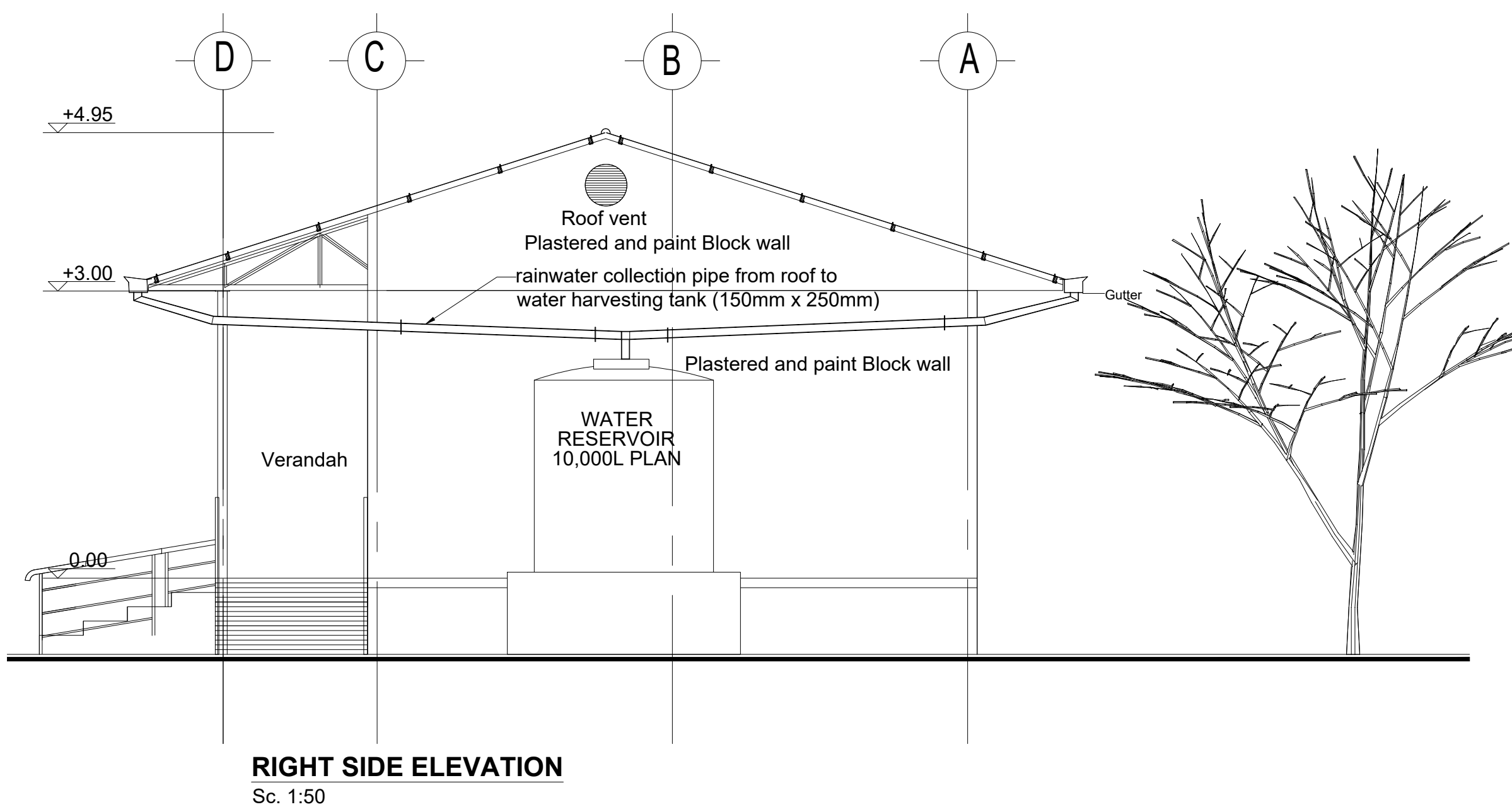
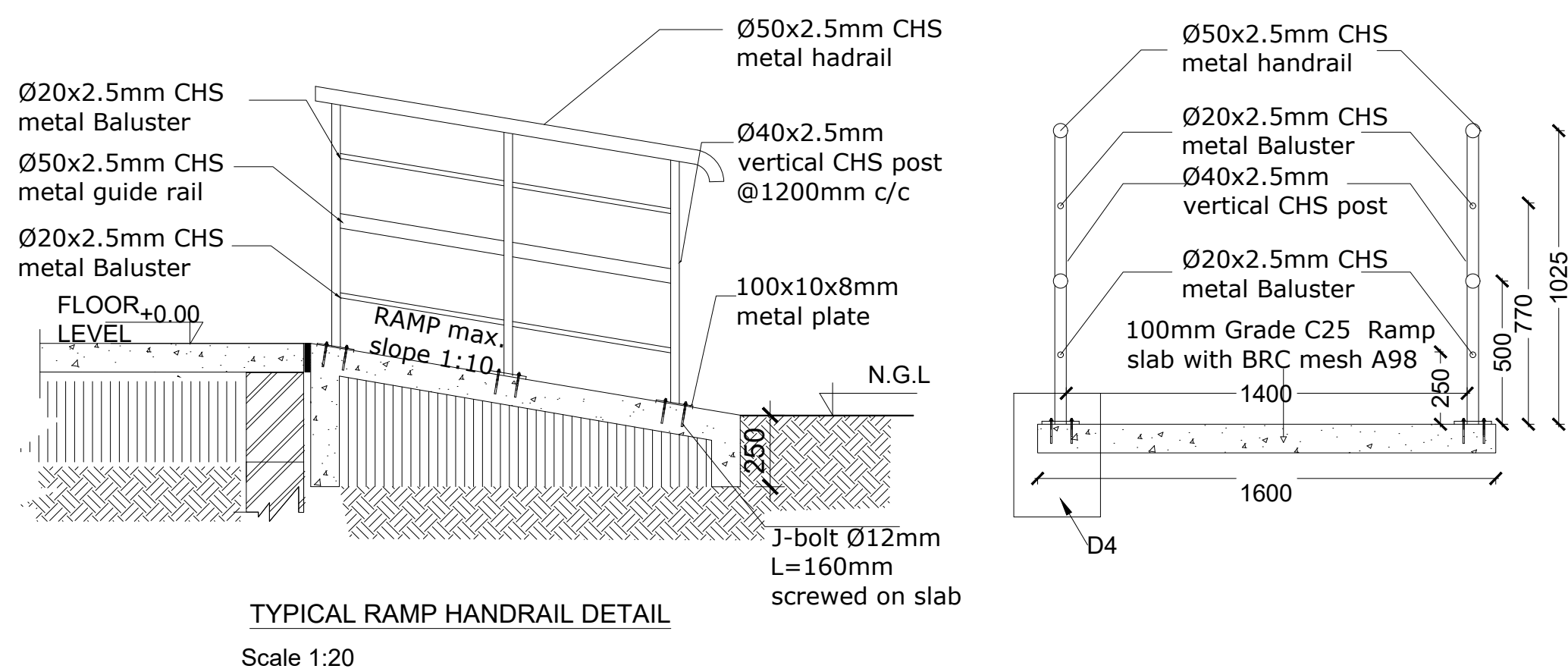
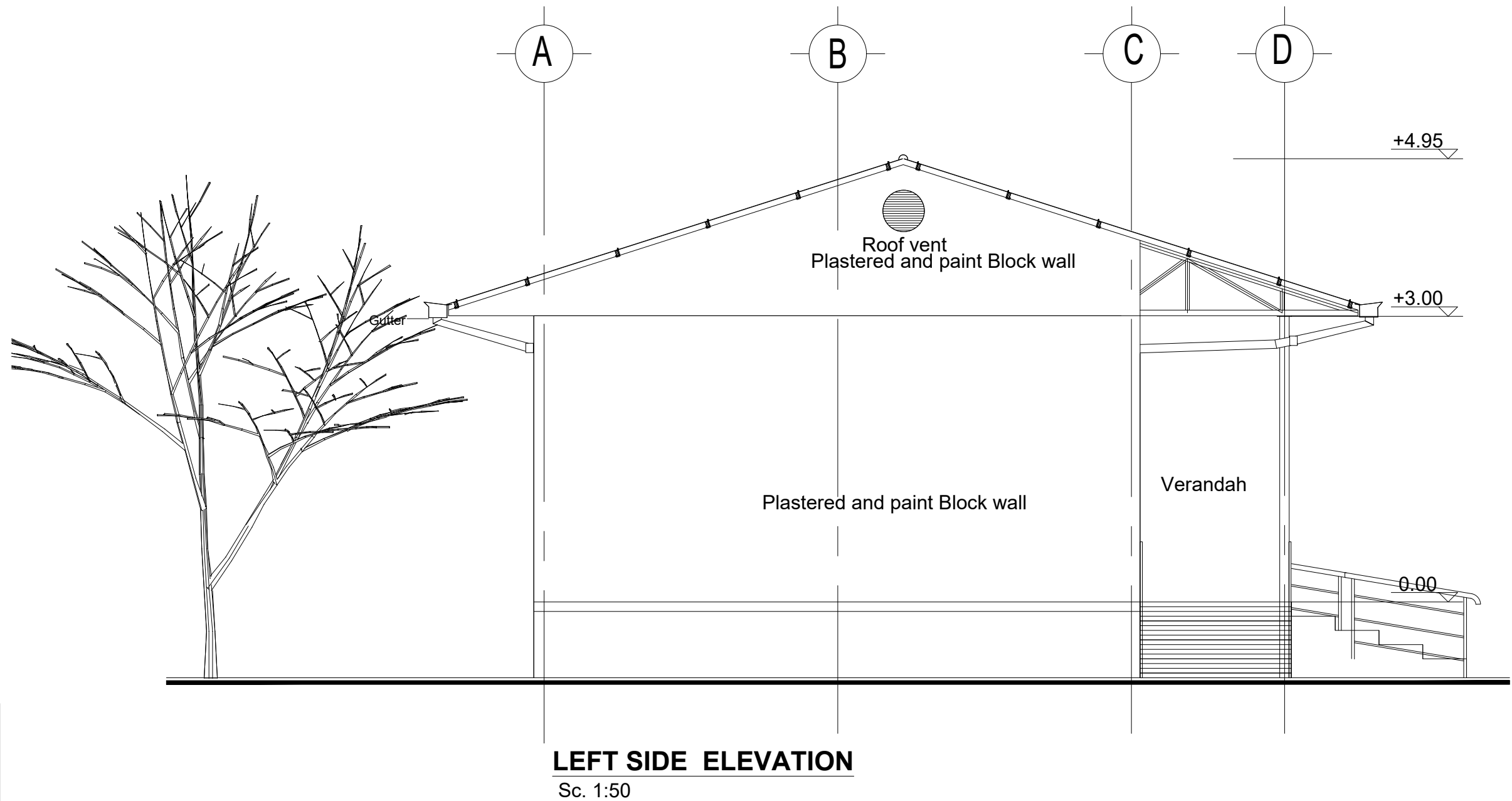
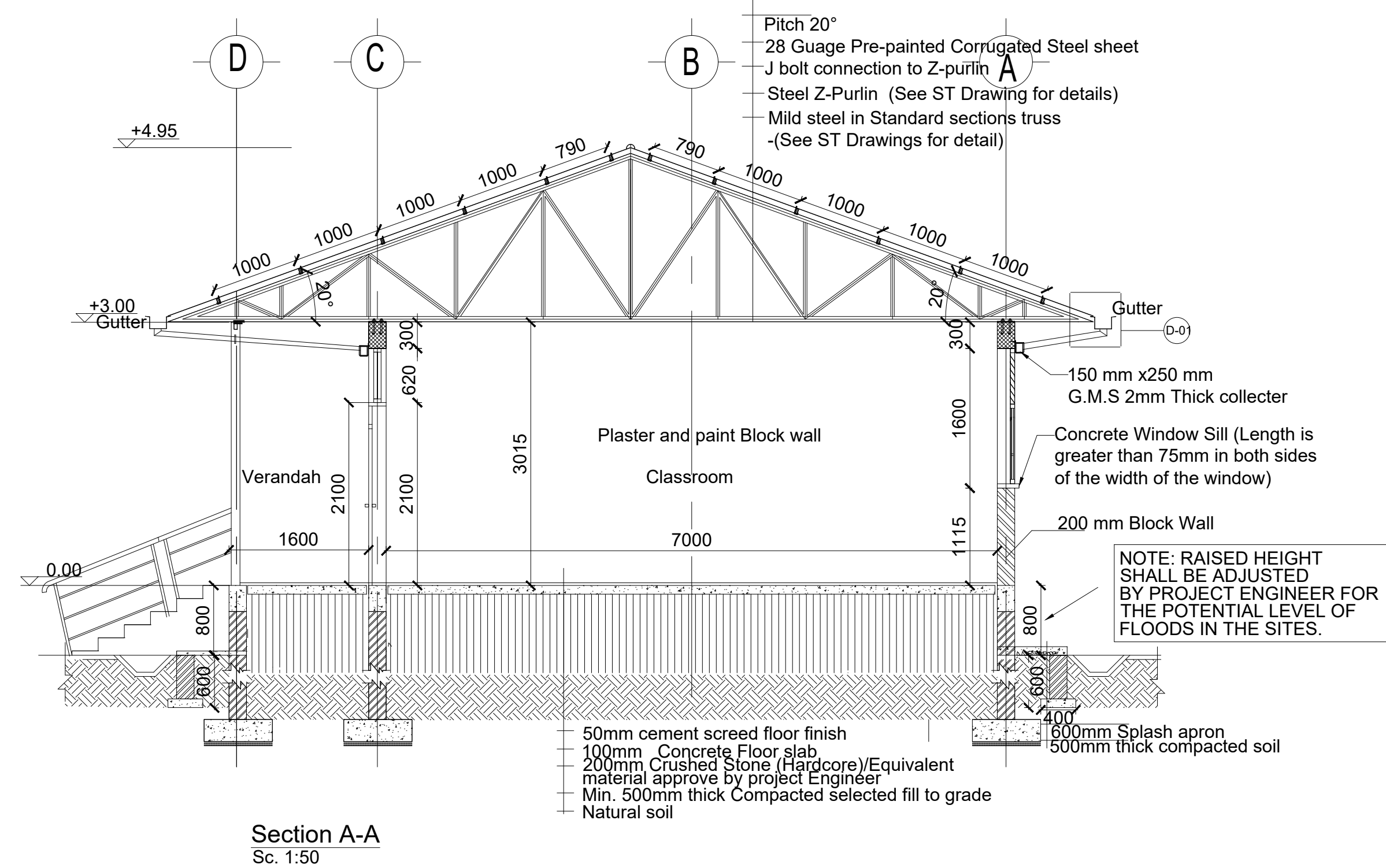
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NOTE: LOCATION OF WATER TANK TO BE DECIDED ONSITE



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Program	
 Enhancing Community Resilience and Local Governance Project Phase II (ECRP II)	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED FOUR 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
Date: 7 January 2024	Rev: 0



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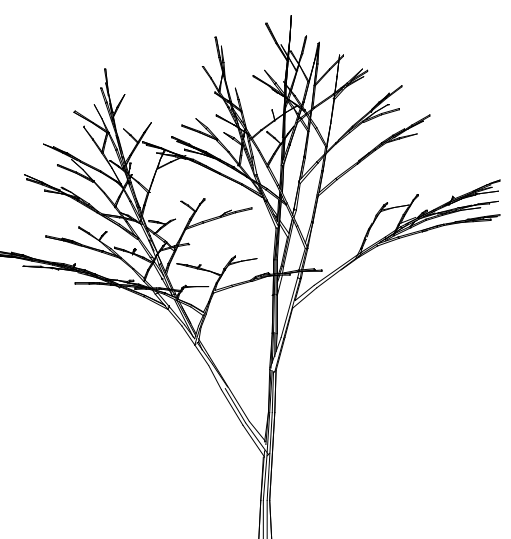
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<p>Program</p>	
<p>Client:</p> <p>GOVERNMENT OF SOUTH SUDAN</p>	
<p>Implemented By:</p>	
<p>Project:</p> <p>PROPOSED FOUR CLASSROOMS BLOCK</p>	
<p>Drawing Title</p> <p>SECTION AND ELEVATIONS</p>	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
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Date: 7 January 2024	Rev: 0

NOTES.

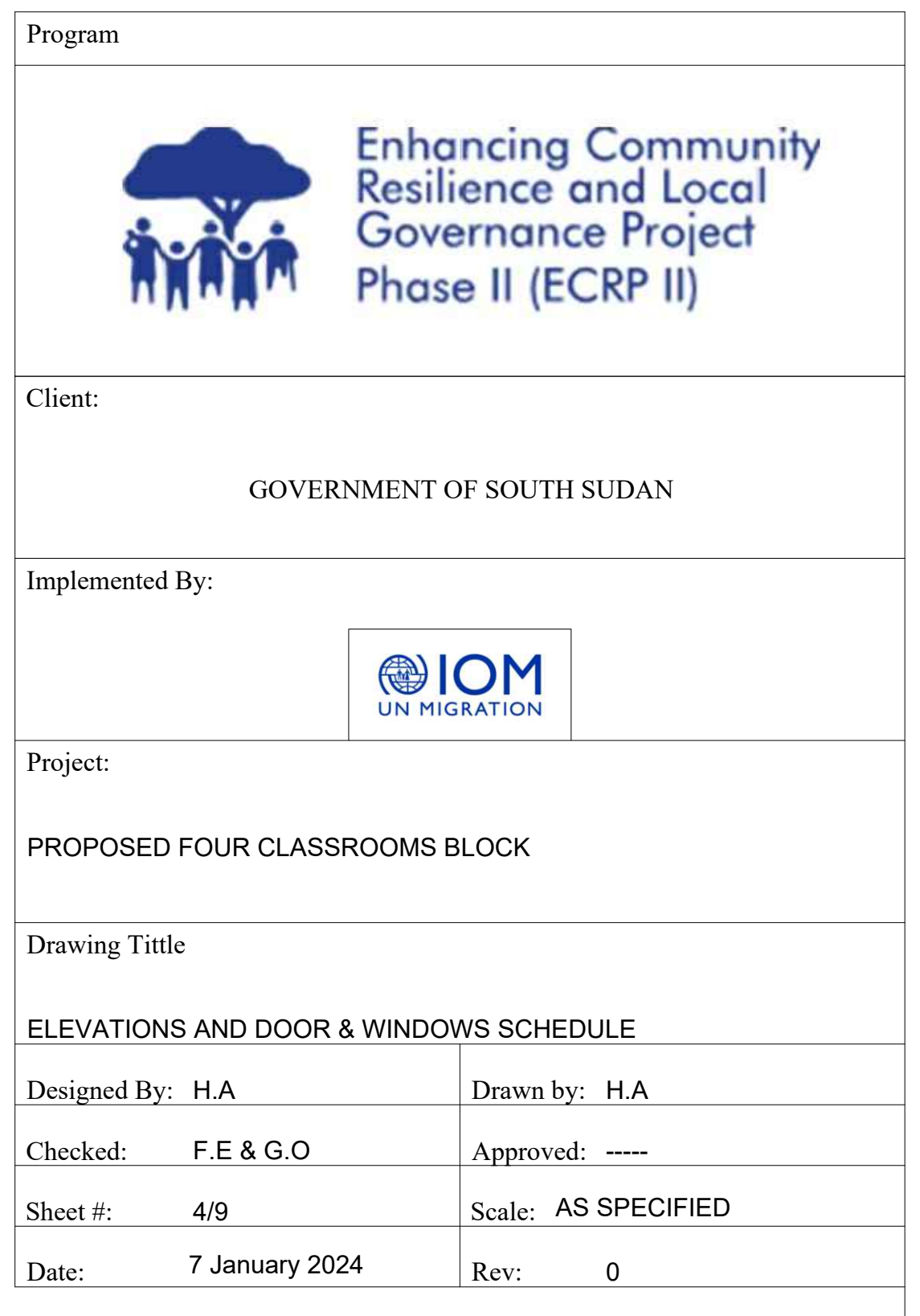


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Door Name	D1
Quantity	2
Frame material	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & one coat of enamel paint
Door leaf construction	180D Opening, 0.5mm casement metal panel
Burglar Proofing	RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the exterior side.
Ironmongery	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.
	<p>The drawing shows a door with a width of 1100 and a total height of 2700. The door is divided into three vertical sections: a top section with a height of 600, a middle section with a height of 1200, and a bottom section with a height of 900. A dashed diagonal line runs from the top-left corner to the bottom-right corner. A detail of the top section shows a 'Steel Louver' with a grid pattern.</p>

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
Ironmongery	stainless steel pull-push bar handle
Louver	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.
	<p>Technical drawing of a window louver assembly. The drawing shows a square frame with a grid of vertical and horizontal bars. The text "Steel Louver" is written inside the grid. Dimensions are indicated with arrows: a width of 1200 and a height of 1600. There are also smaller dimensions: +2.70 at the top, +2.10 and +1.10 on the left side, and +0.00 at the bottom. The bottom right corner has a dimension of 1100.</p>



STRUCTURAL NOTES:

- I) Building shall be founded on load bearing stone masonry wall having a depth of 1800mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
- 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

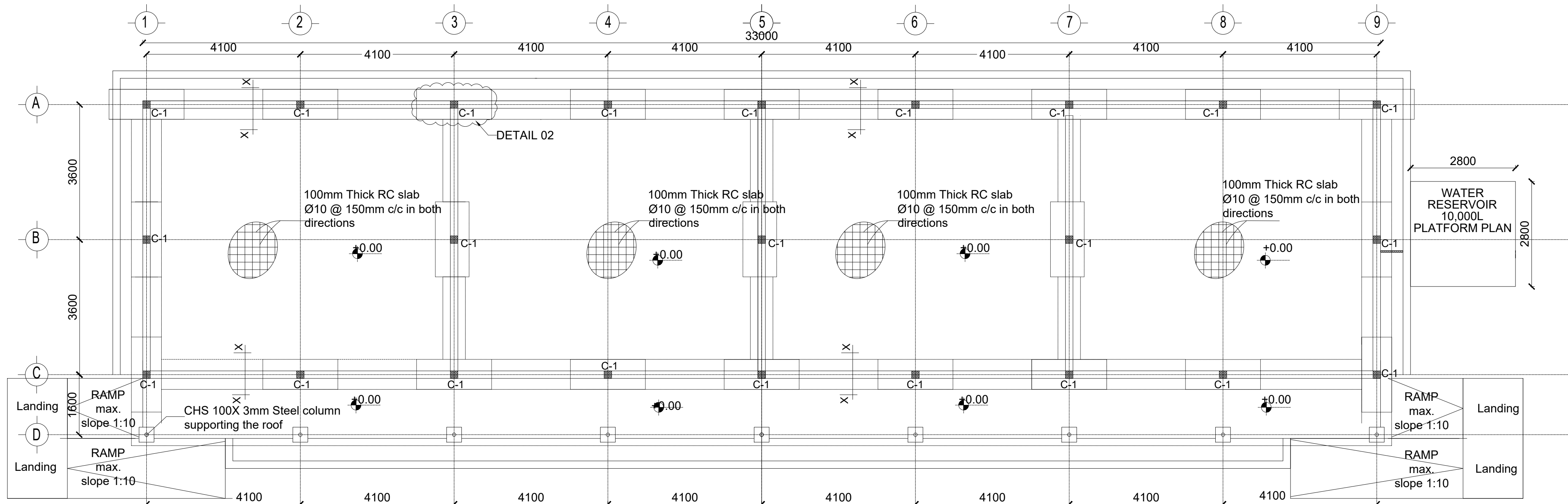
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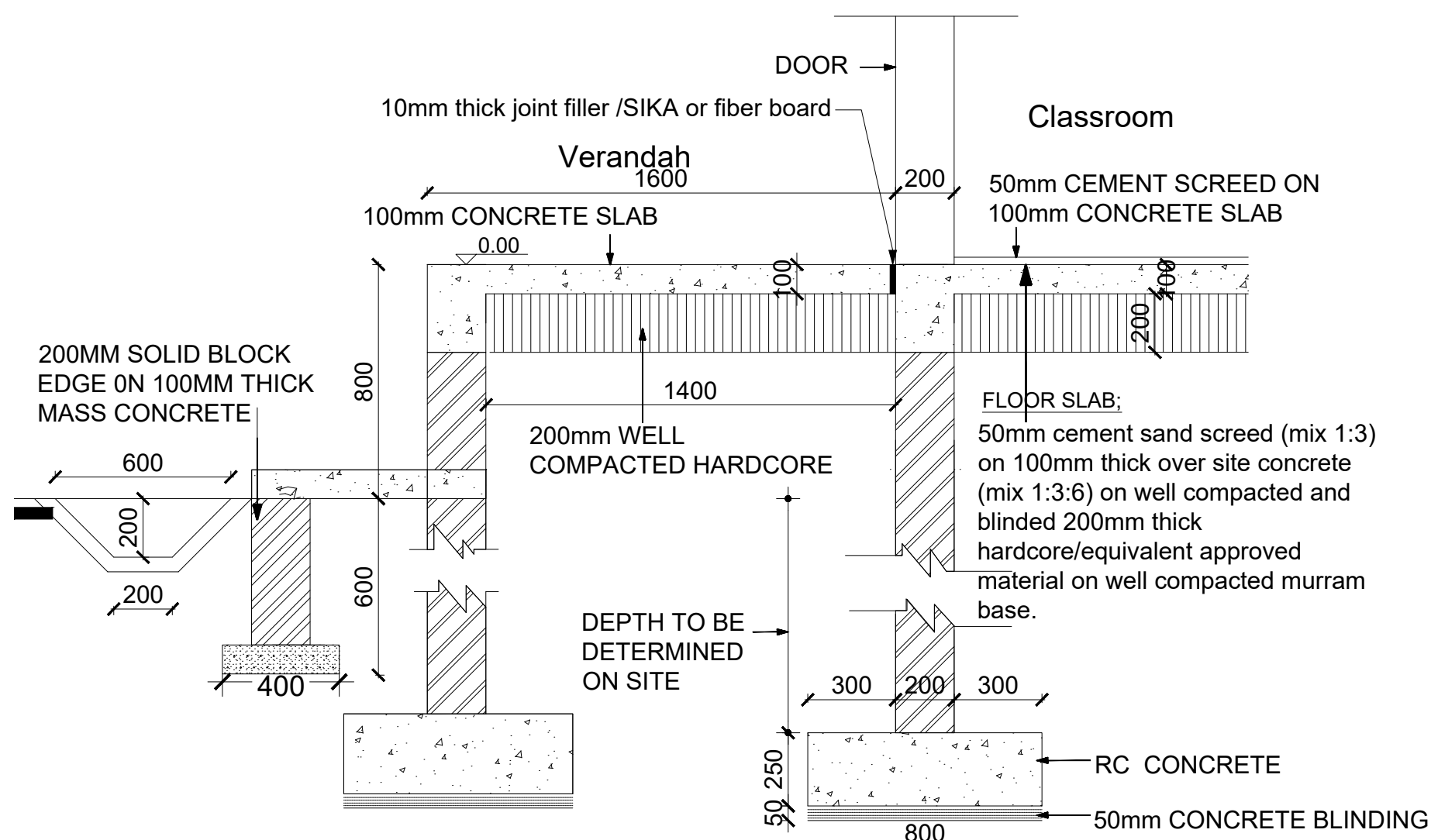
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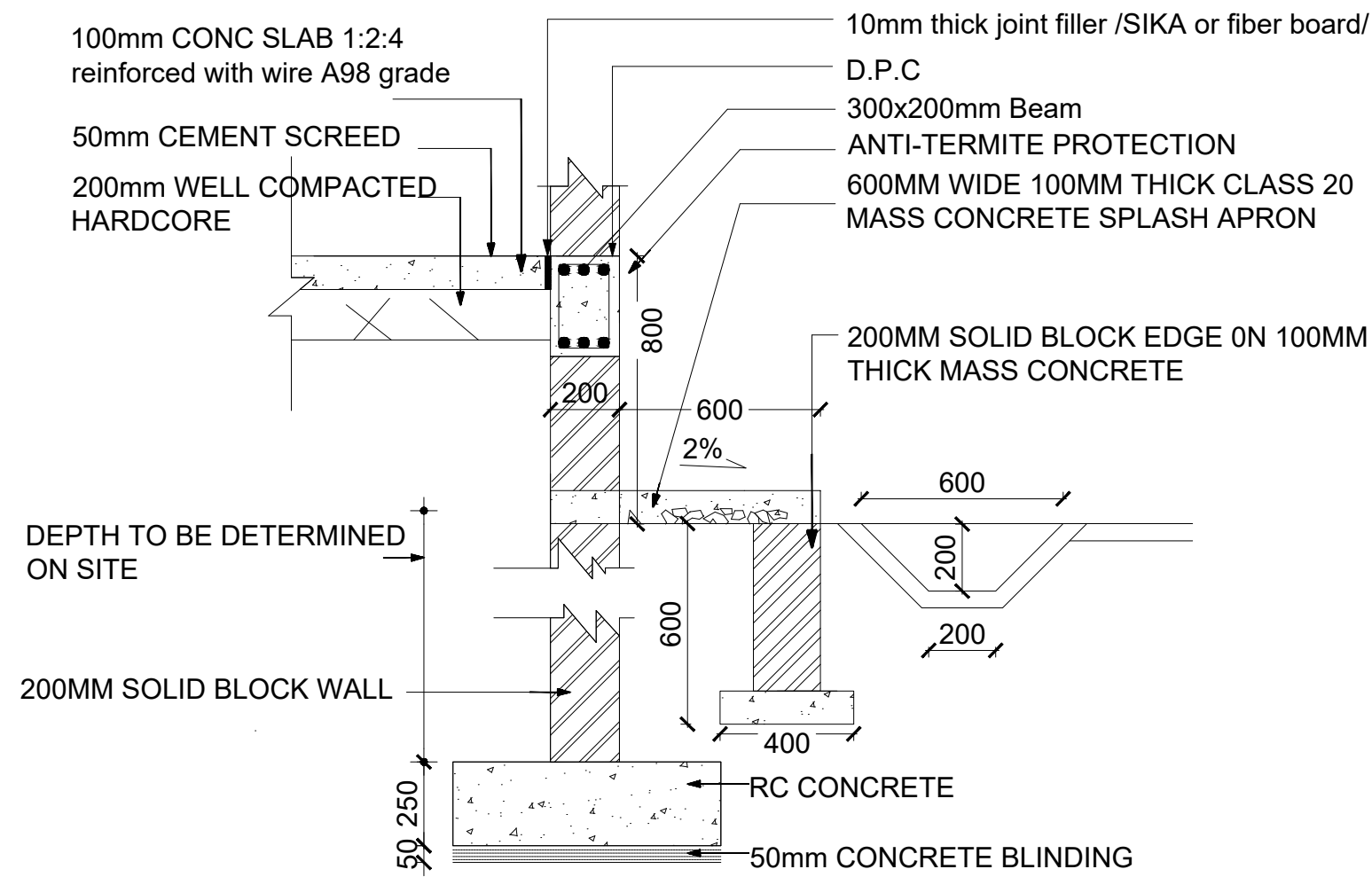
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Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
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Project:	
PROPOSED FOUR CLASSROOMS BLOCK	
Drawing Title	
STRUCTURAL NOTES	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 5/9	Scale: AS SPECIFIED
Date: 7 January 2024	Rev: 0



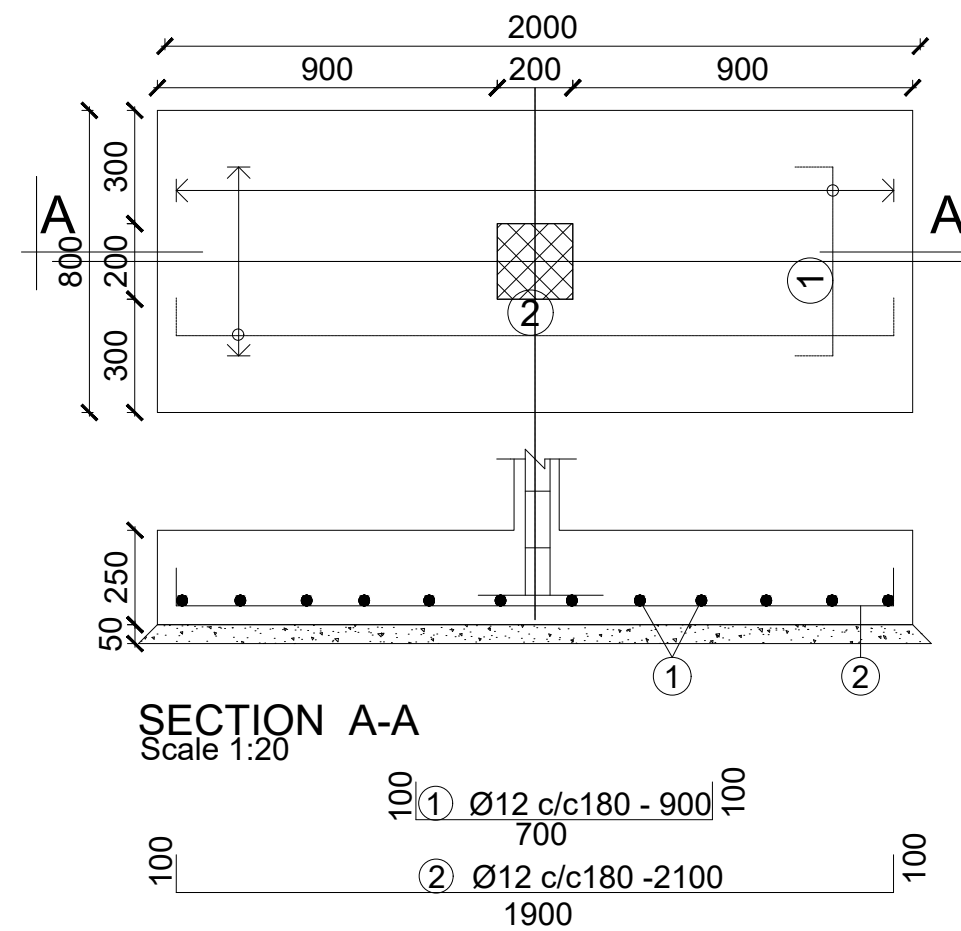
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GROUND FLOOR SLAB REINFORCEMENT , BEAM AND COLUMN LAYOUT
SCALE 1:75



VERANDAH DETAIL
SCALE 1:20

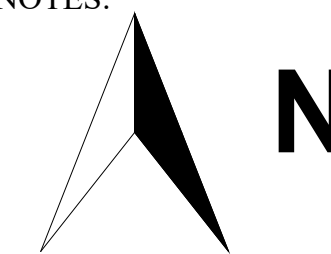


FOUNDATION DETAIL X-X
SCALE 1:20



FOUNDATION DETAIL - DETAIL 2
SCALE 1:20

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Program



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Implemented By:



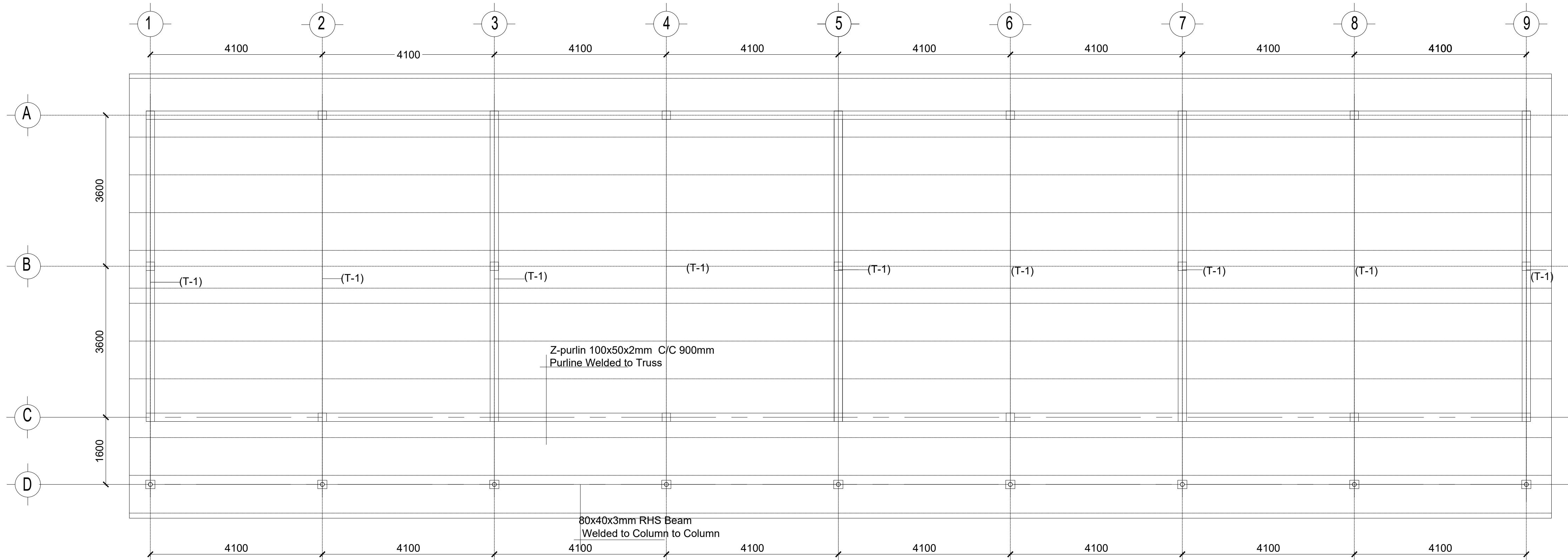
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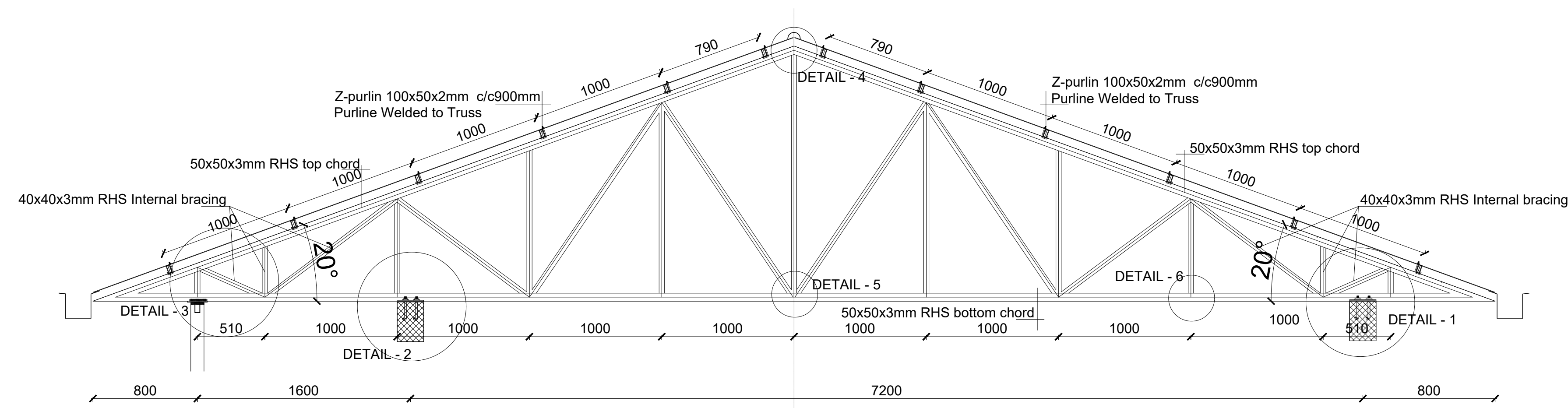
Drawing Title

FOUNDATION PLAN AND FOUNDATION DETAILS

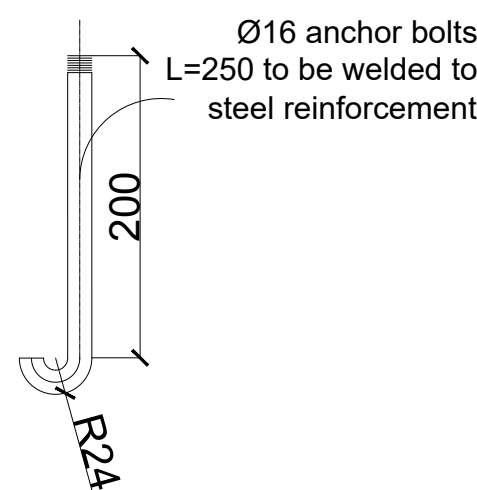
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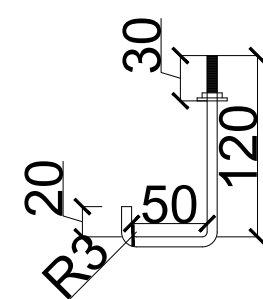
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ROOF BEAM AND TRUSS LAYOUT
SCALE 1:50



TRUSS T-1 DETAIL
SC:1.25

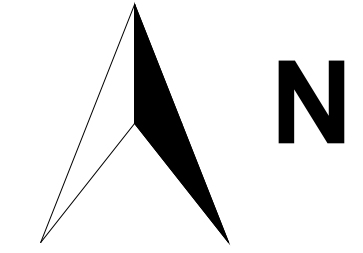


Beam to Truss J bolt Details
SCALE 1:5



Purlin to G.I Sheet J bolt Details
SCALE 1:5

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Program



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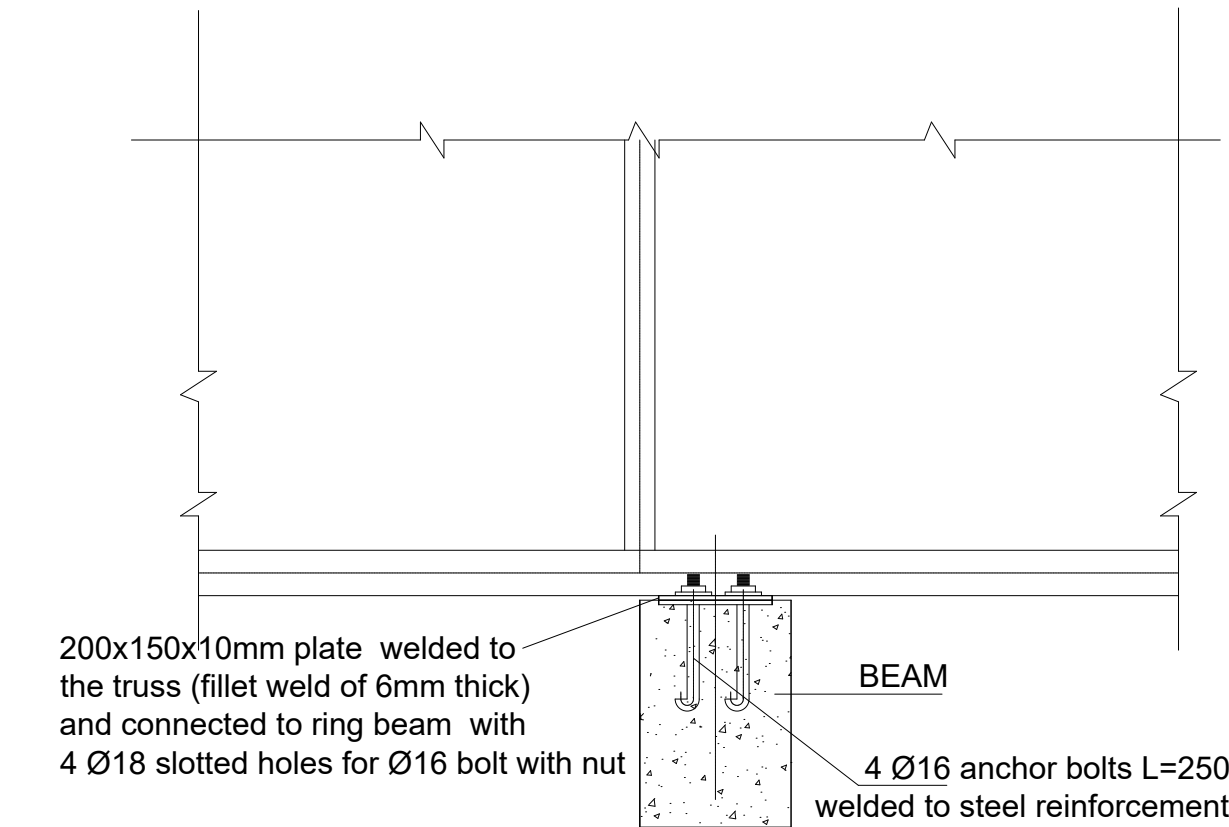
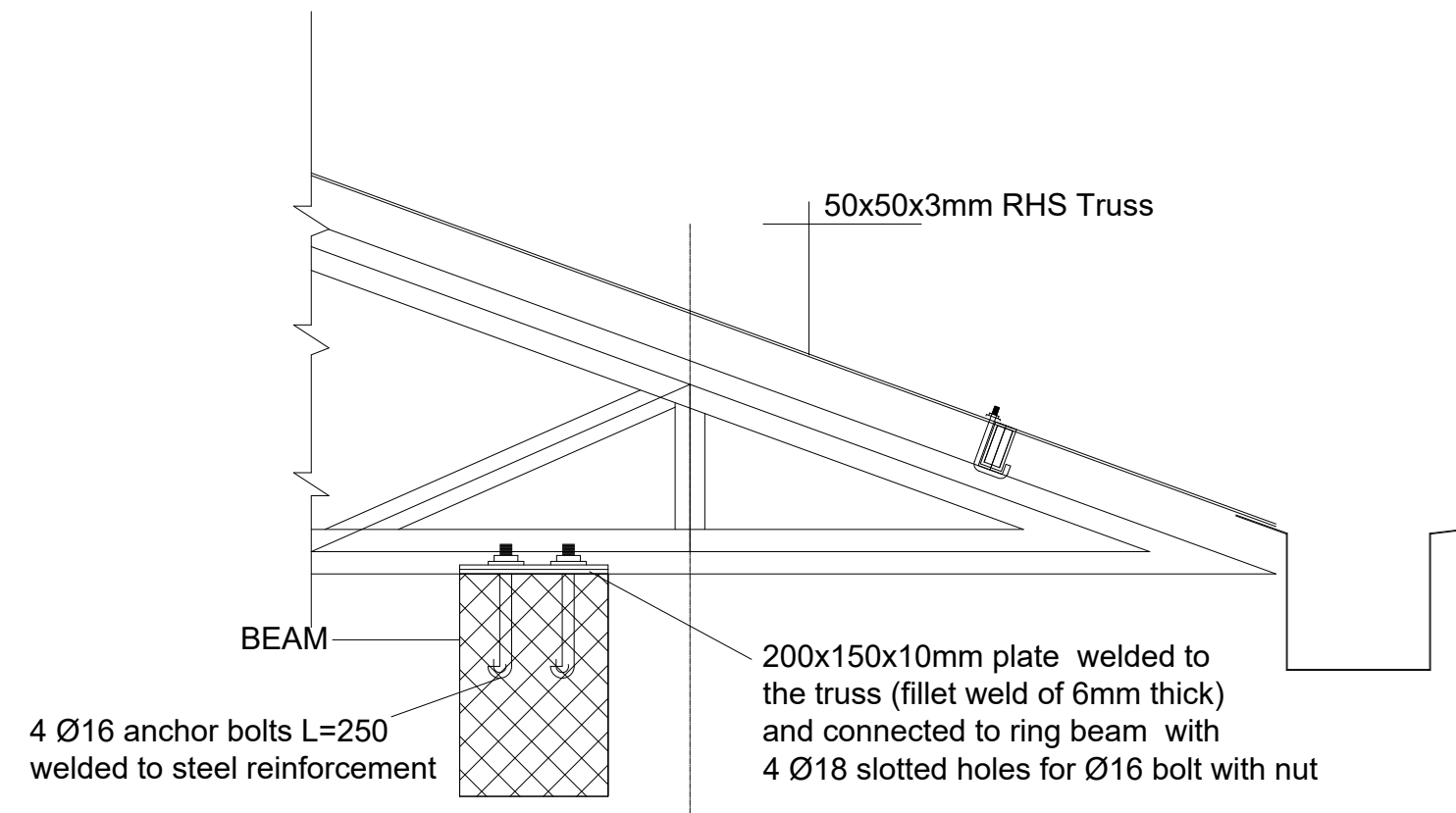
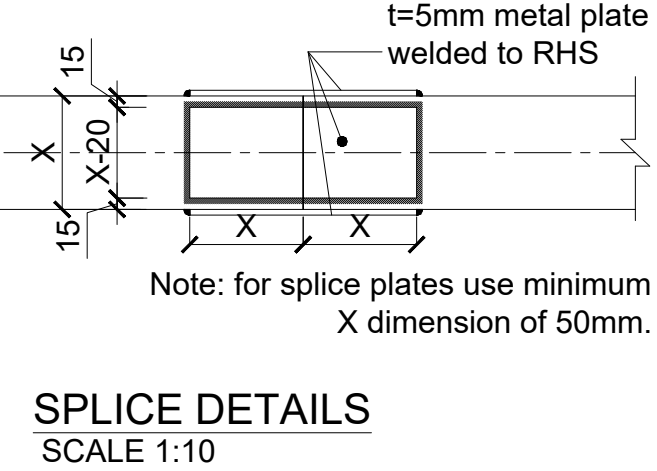
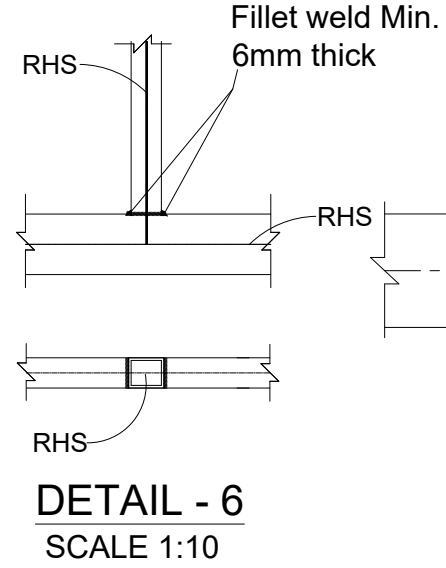
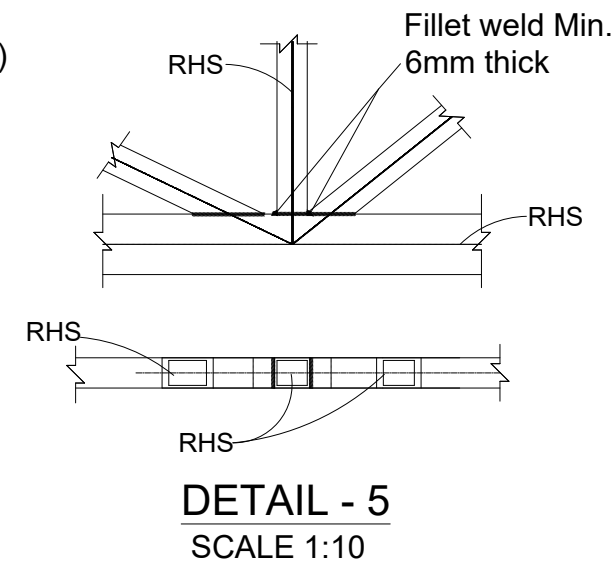
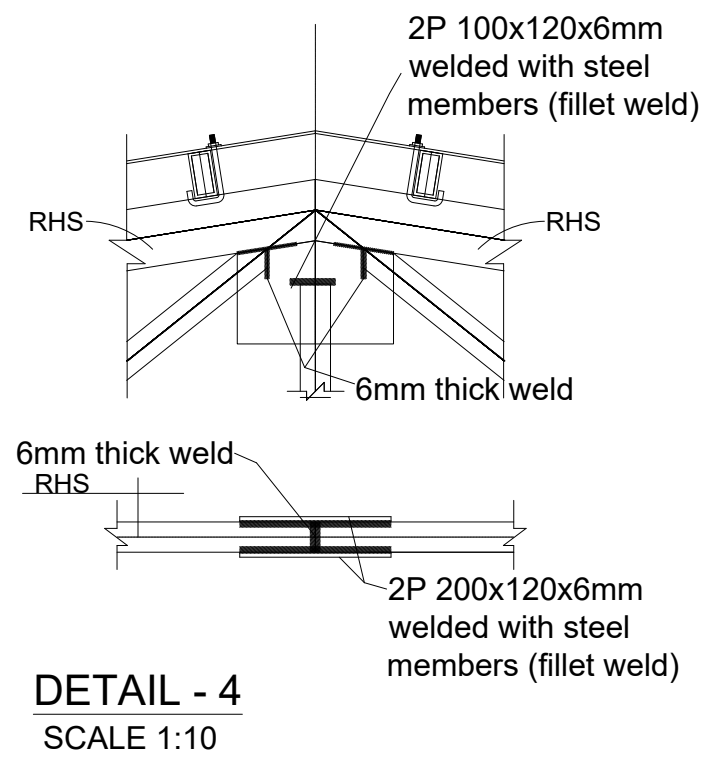
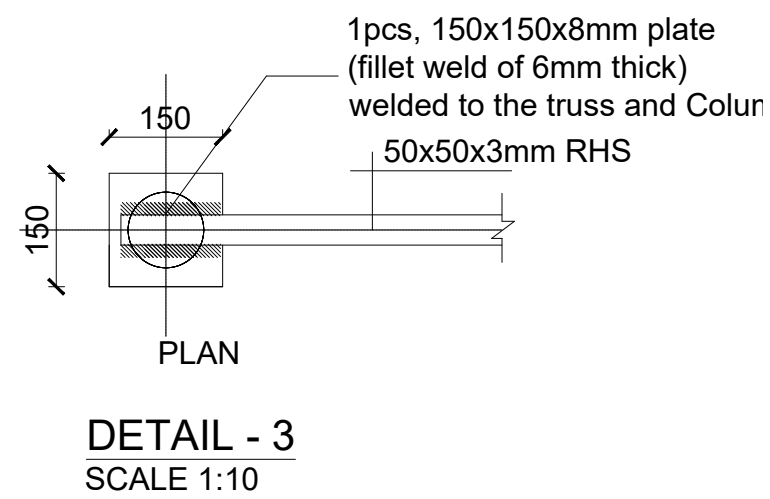
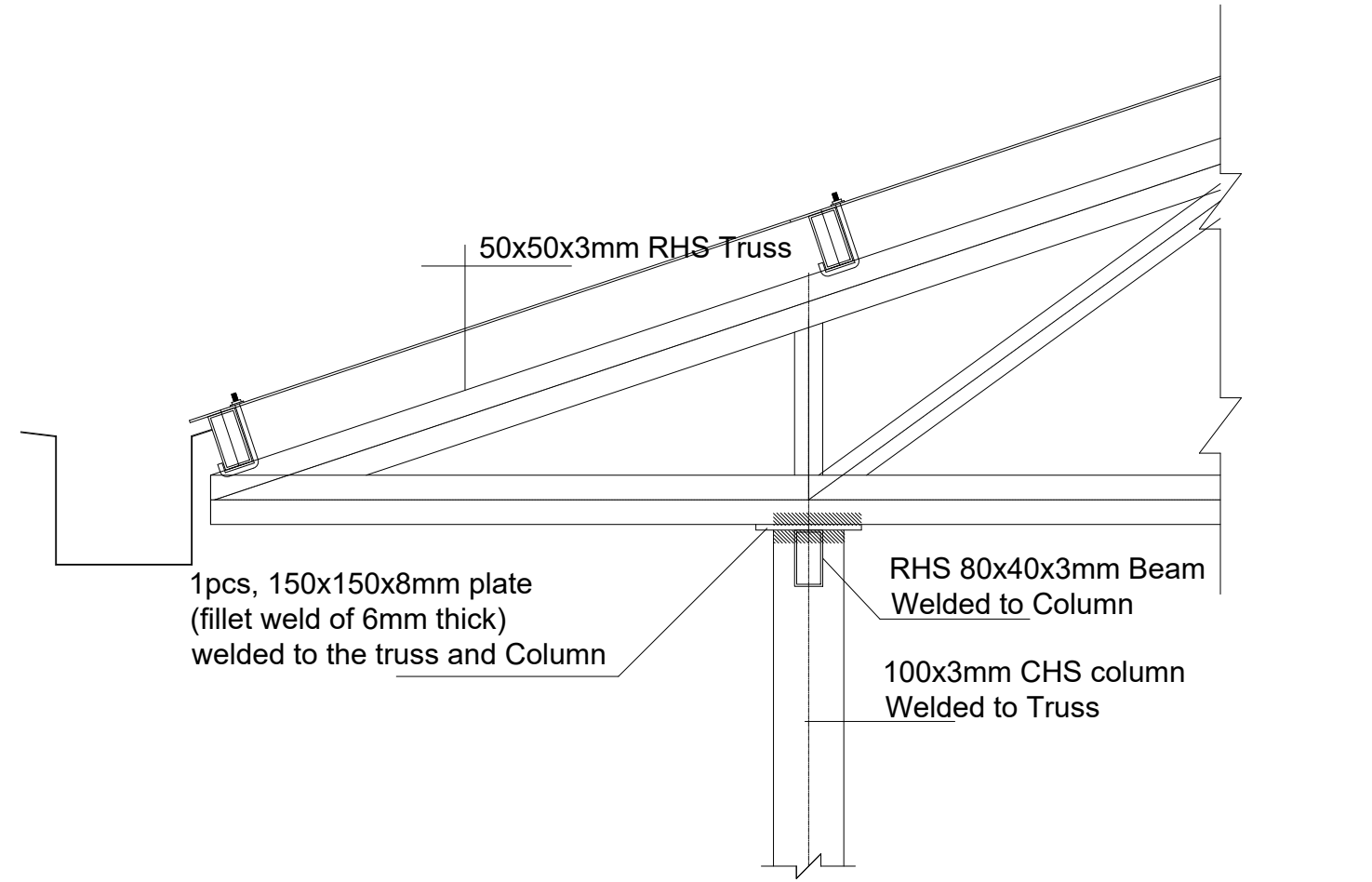
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PROPOSED FOUR CLASSROOMS BLOCK

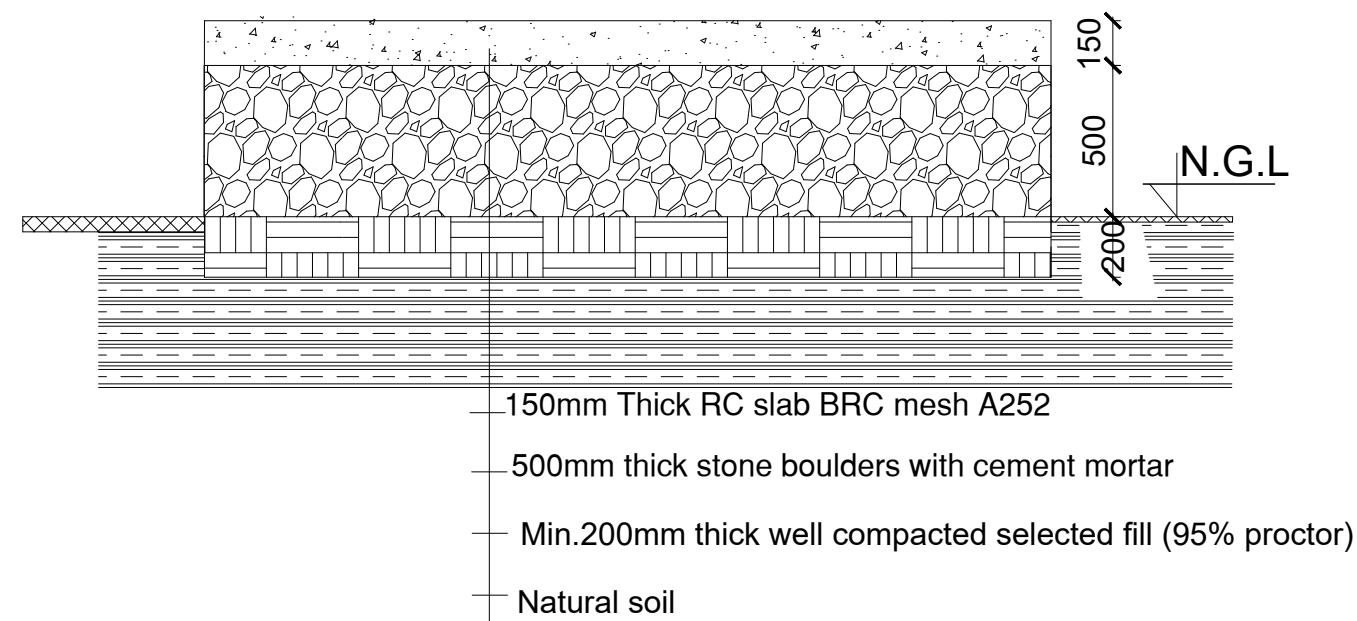
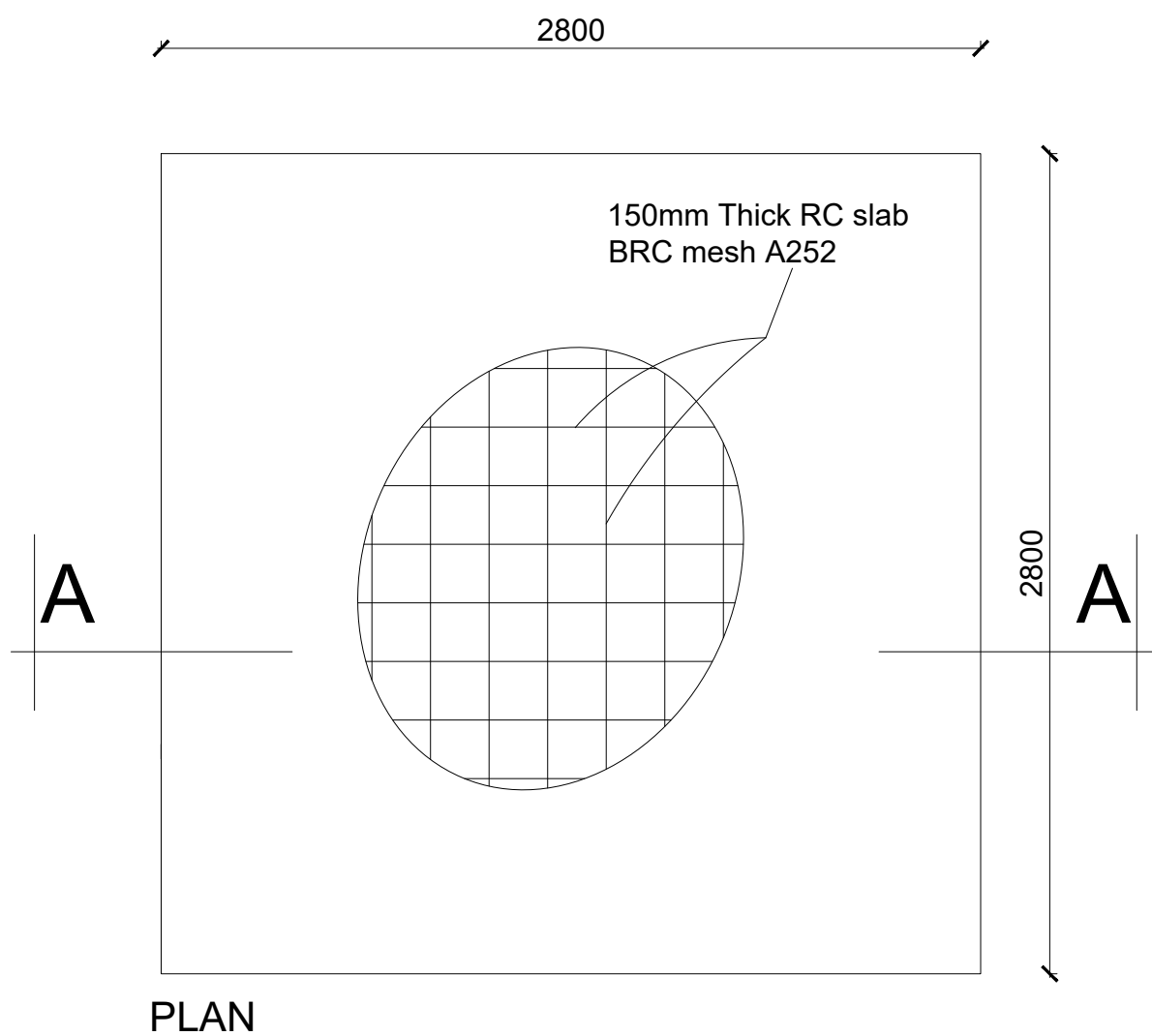
Drawing Title

TRUSS LAYOUT AND DETAILS

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Checked: F.E & G.O	Approved: ----
Sheet #: 7/9	Scale: AS SPECIFIED
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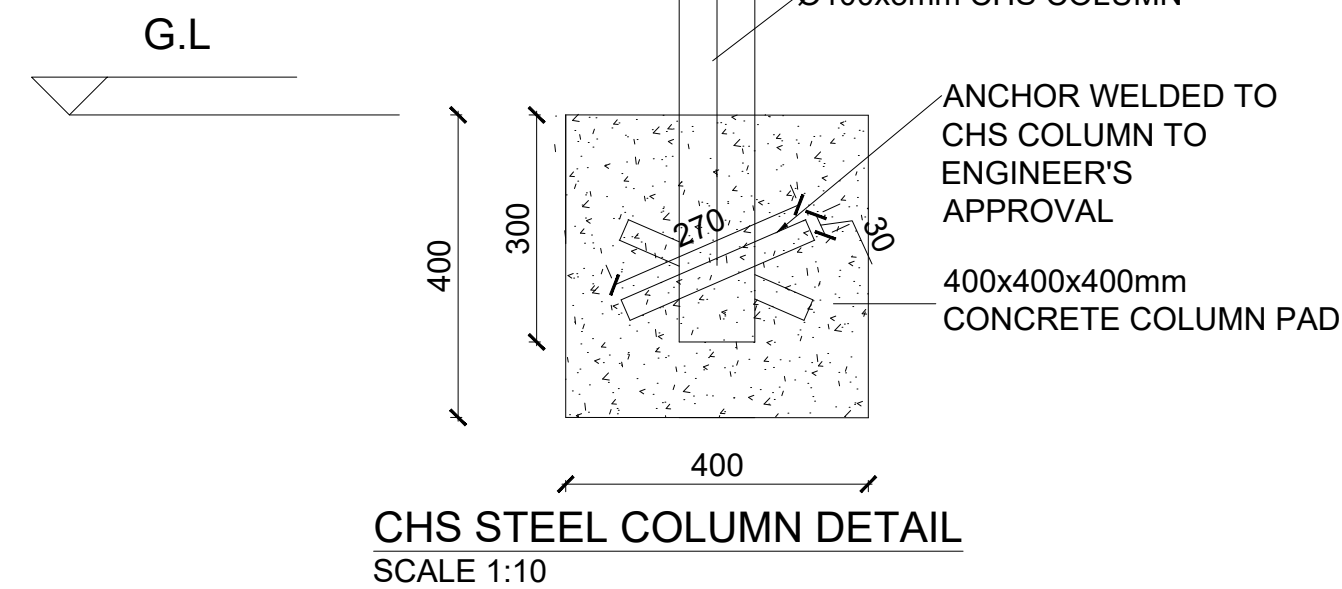
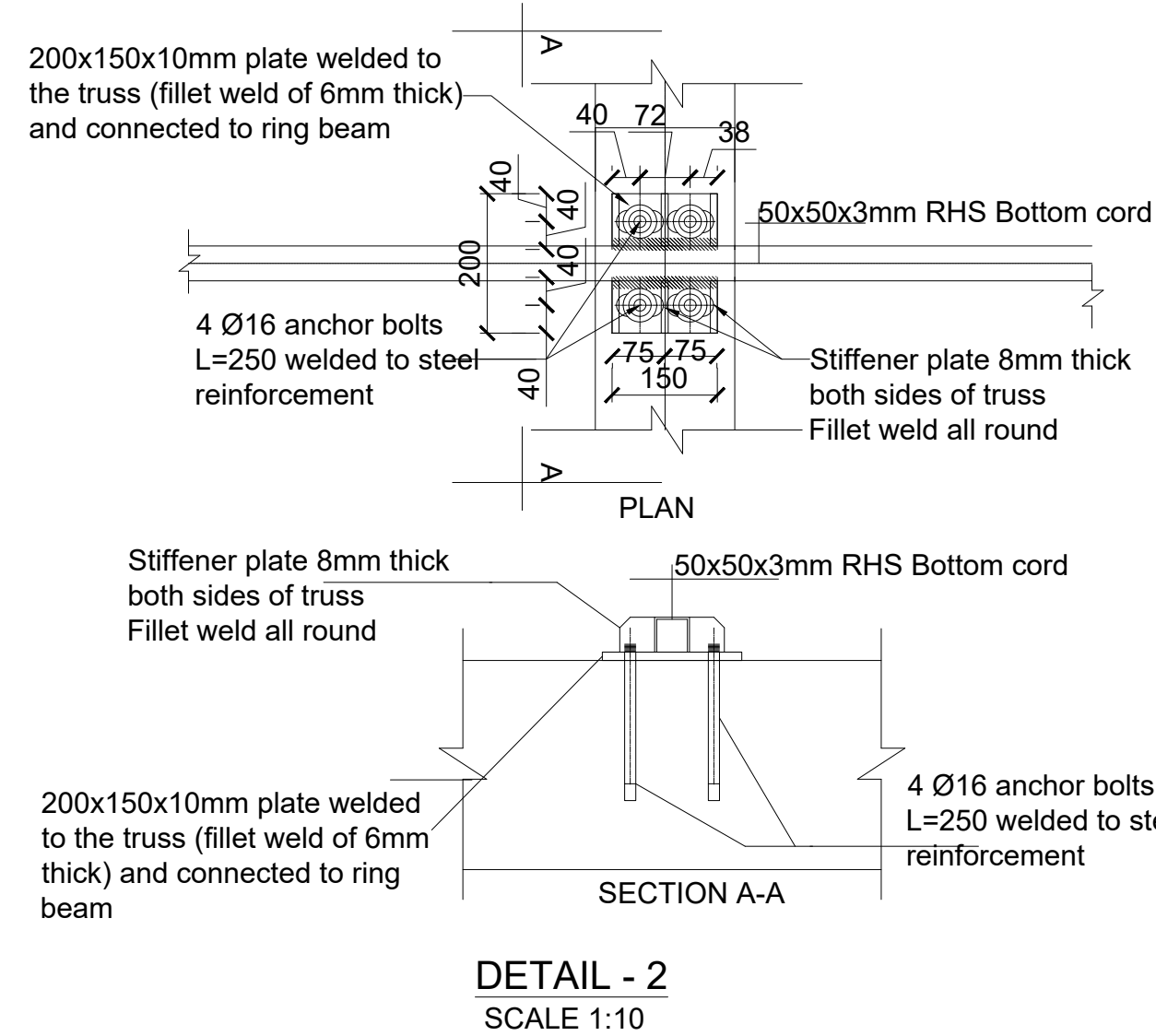
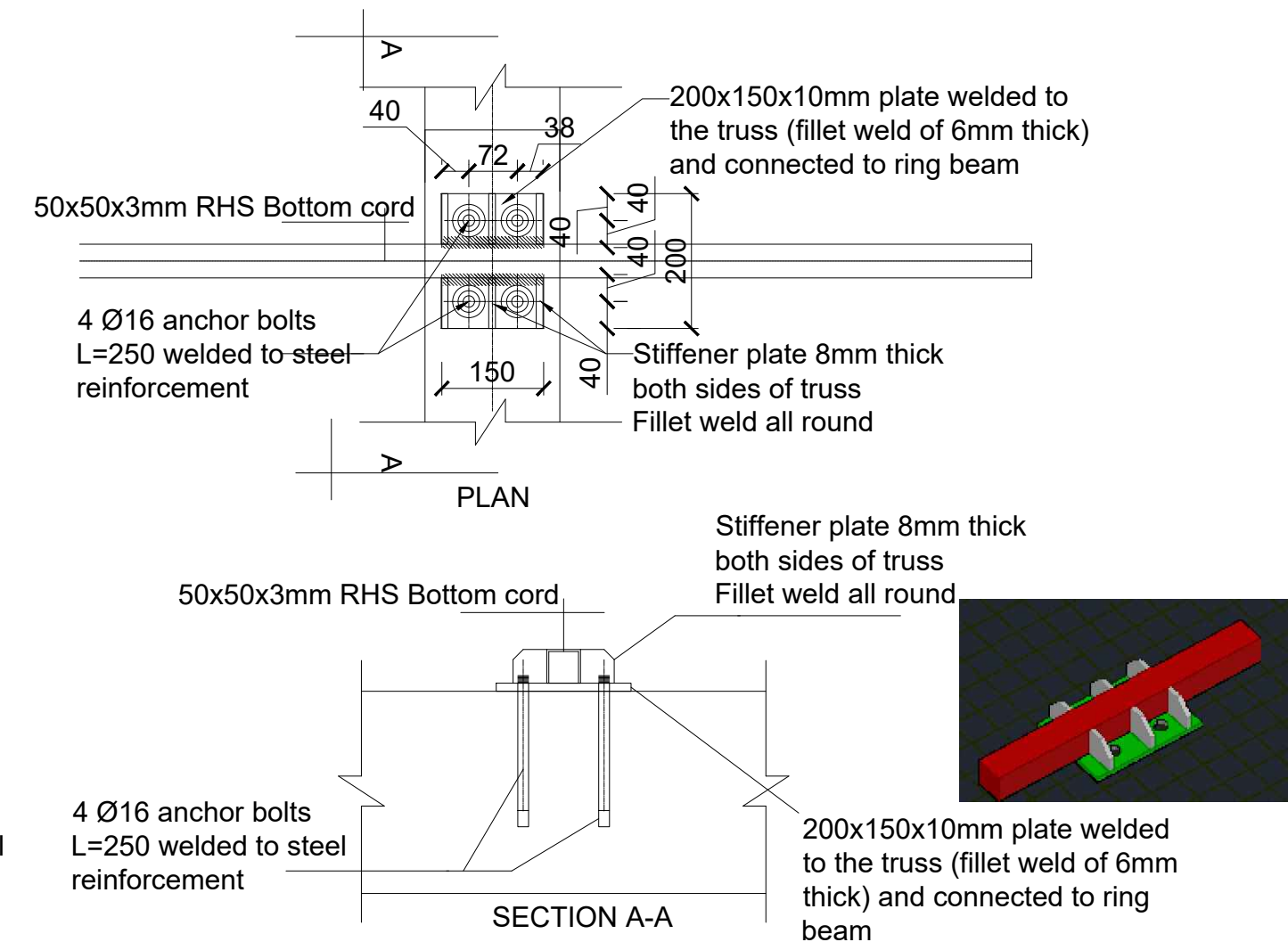


WATER RESERVOIR PLATFORM PLAN



SECTION A-A

SCALE 1:25



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Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



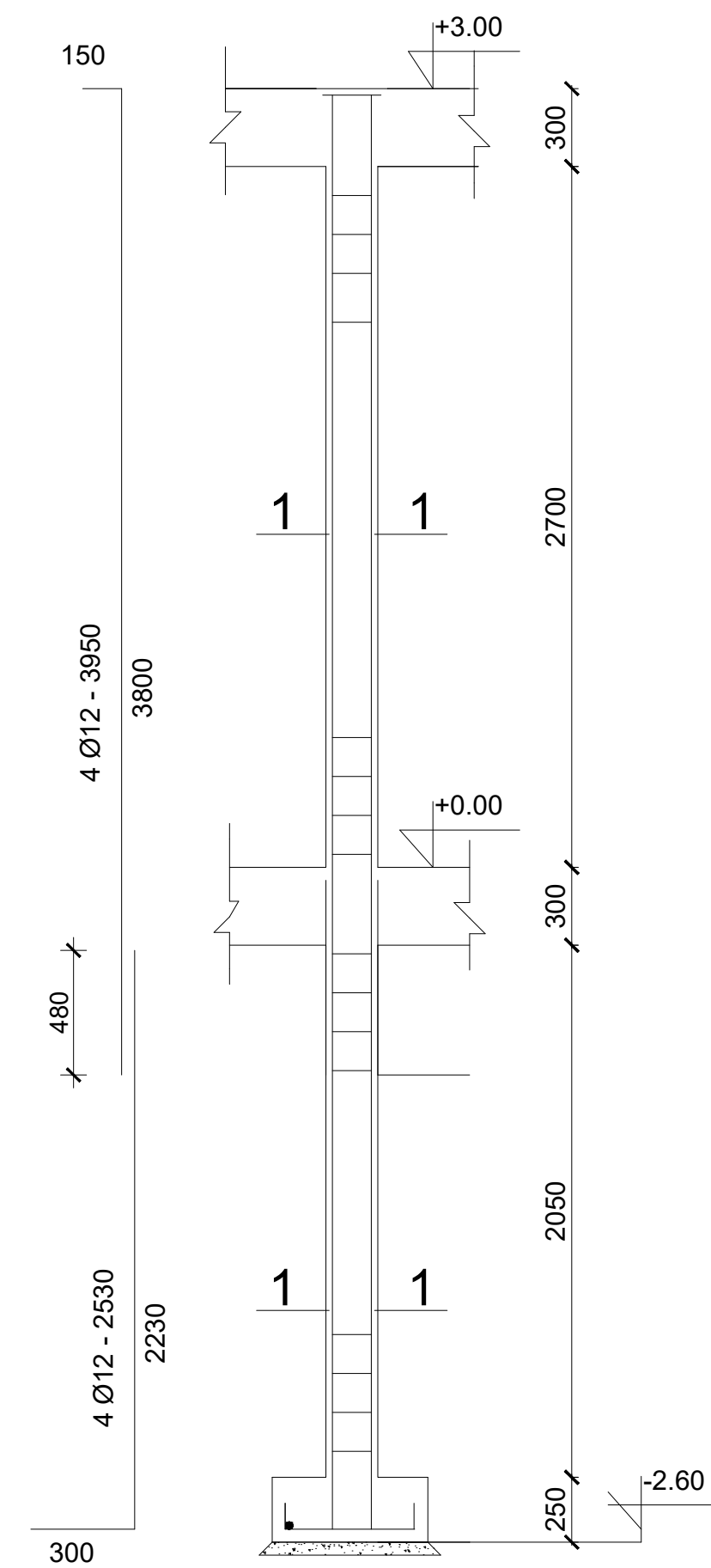
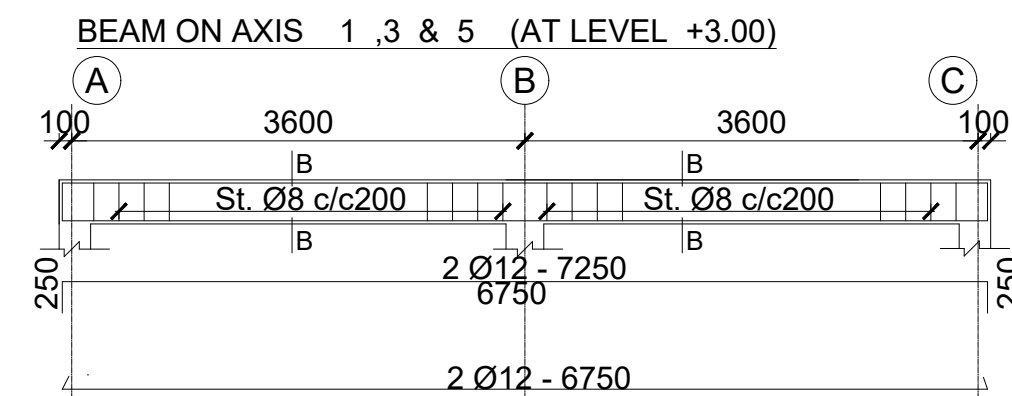
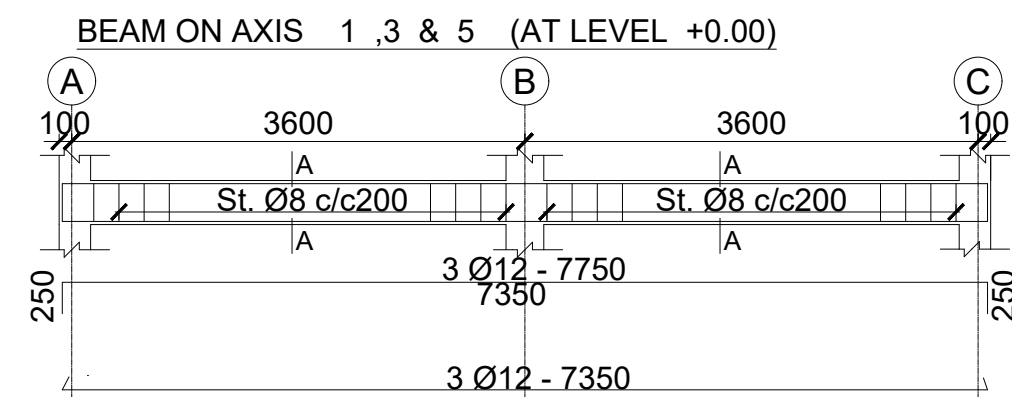
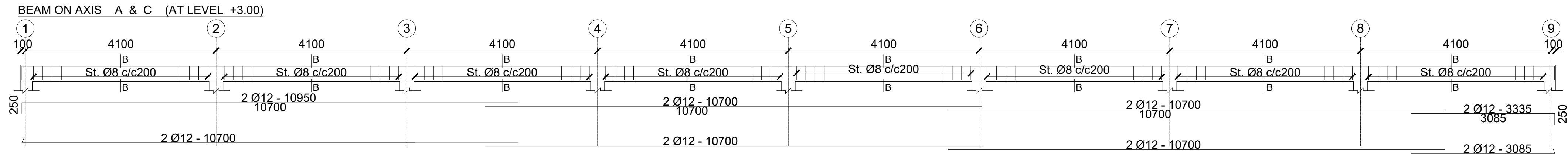
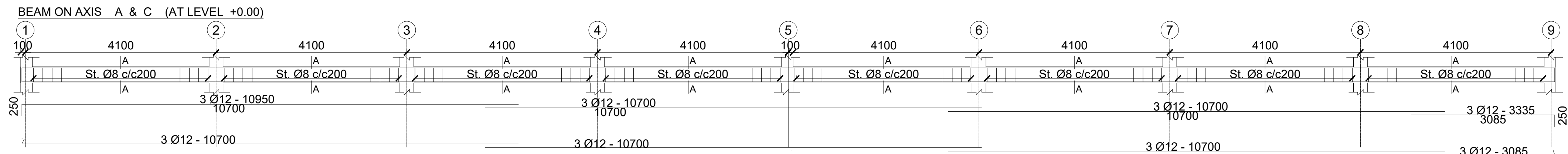
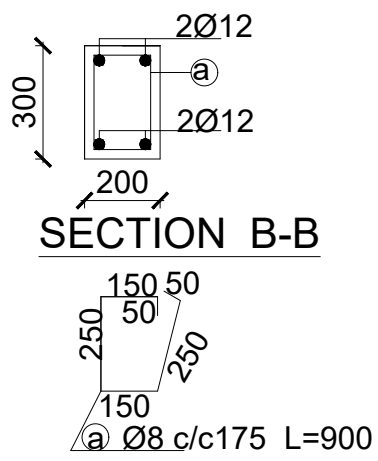
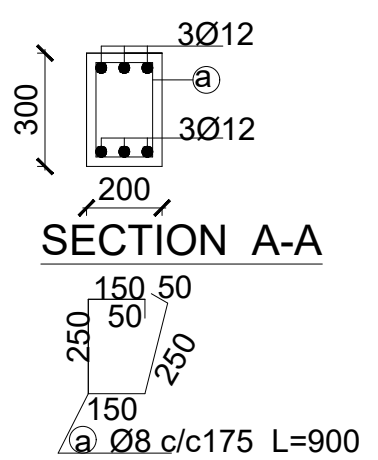
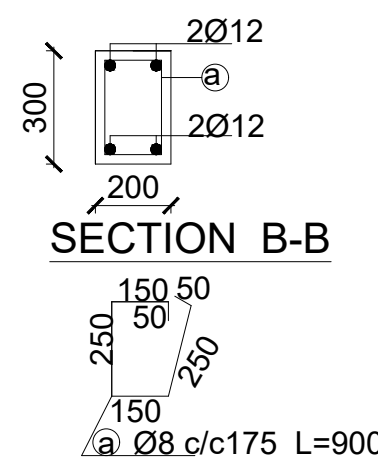
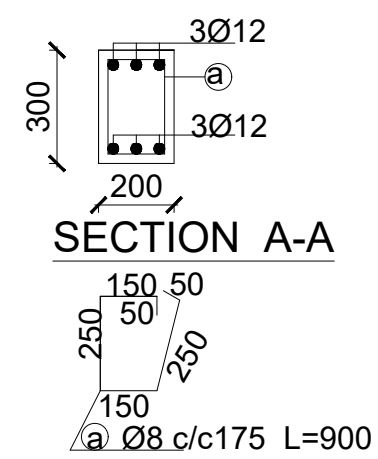
Project:

PROPOSED FOUR CLASSROOMS BLOCK

Drawing Title

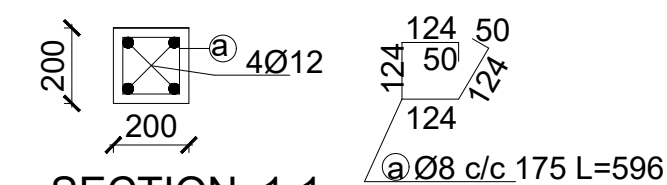
TRUSS, BEAM AND COLUMN DETAILS

Designed By:	H.A	Drawn by:	H.A
Checked:	F.E & G.O	Approved:	----
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COLUMN C-1

SCALE 1:25



SECTION 1-1

SCALE 1:25

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TRUSS, BEAM AND COLUMN DETAILS	
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