

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


GENERAL NOTES:



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- 3. Written dimensions overrides scaled dimensions.
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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 FOUR CLASSROOMS BLOCK

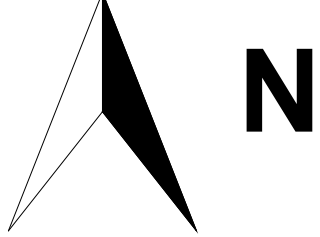
Drawing Tittle

COVER PAGE

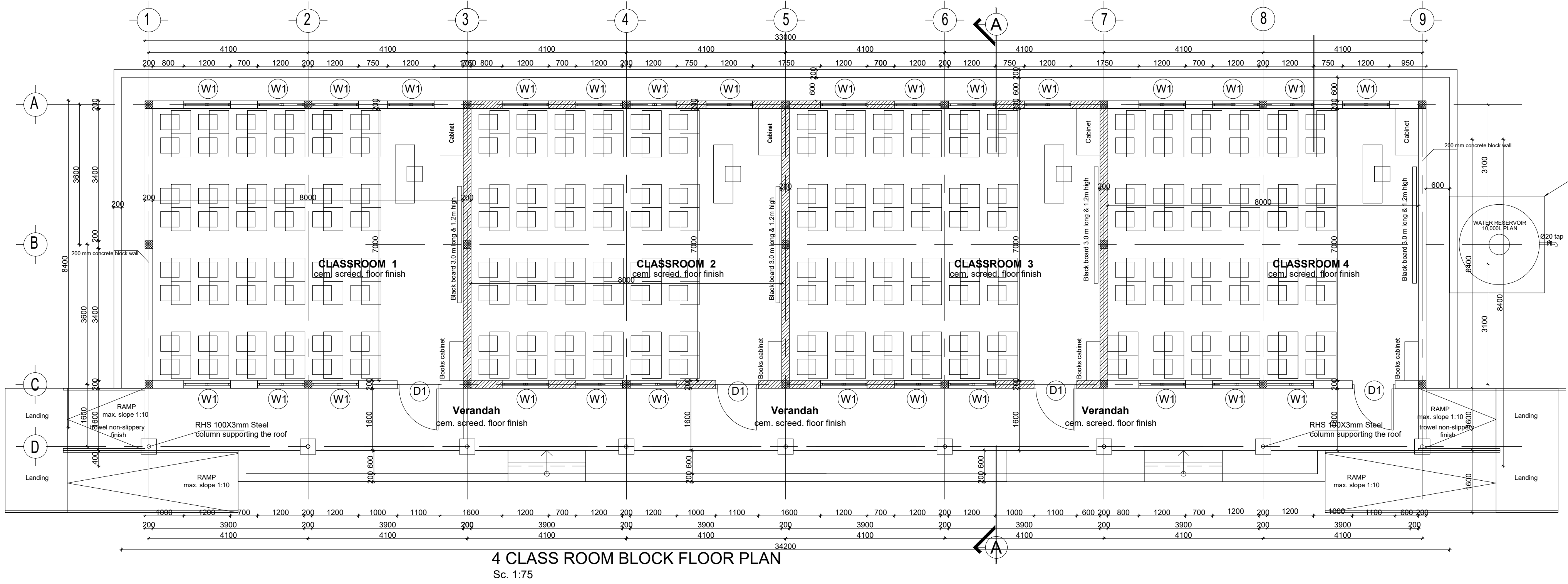
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 1/9	Scale: AS SPECIFIED
Date: 10 December 2023	Rev: 0



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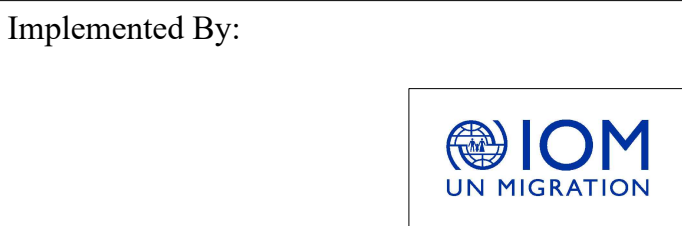


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Program



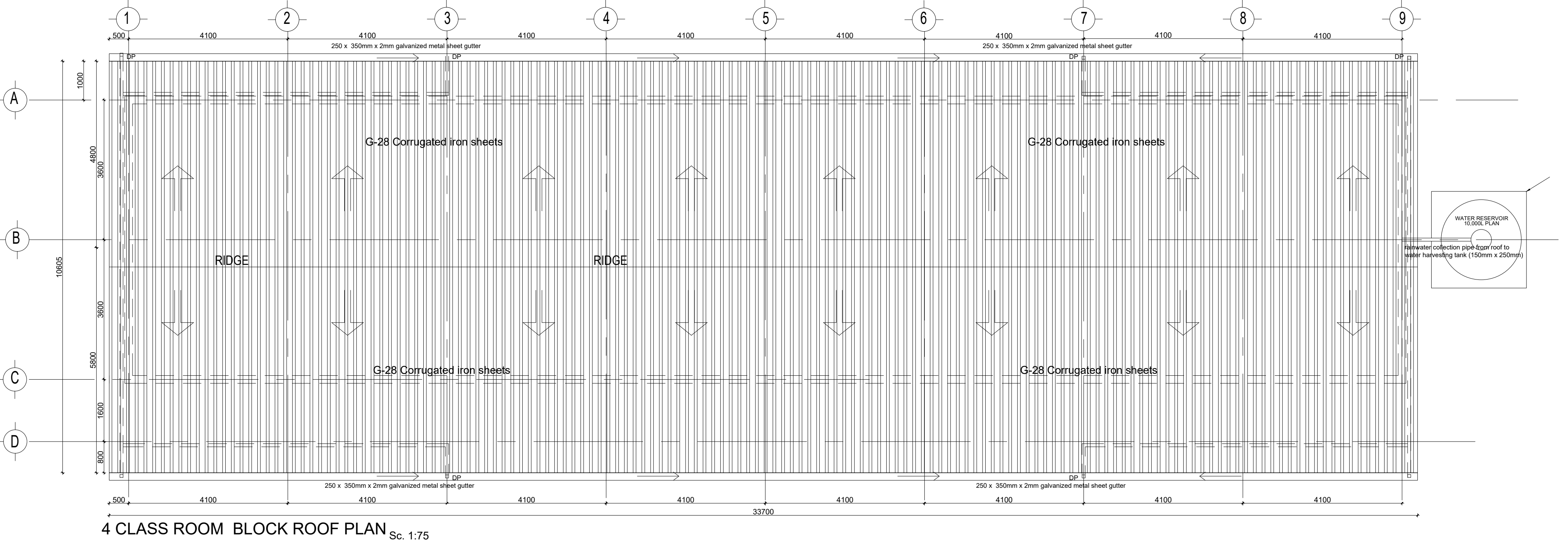
Client:  
  
GOVERNMENT OF SOUTH SUDAN



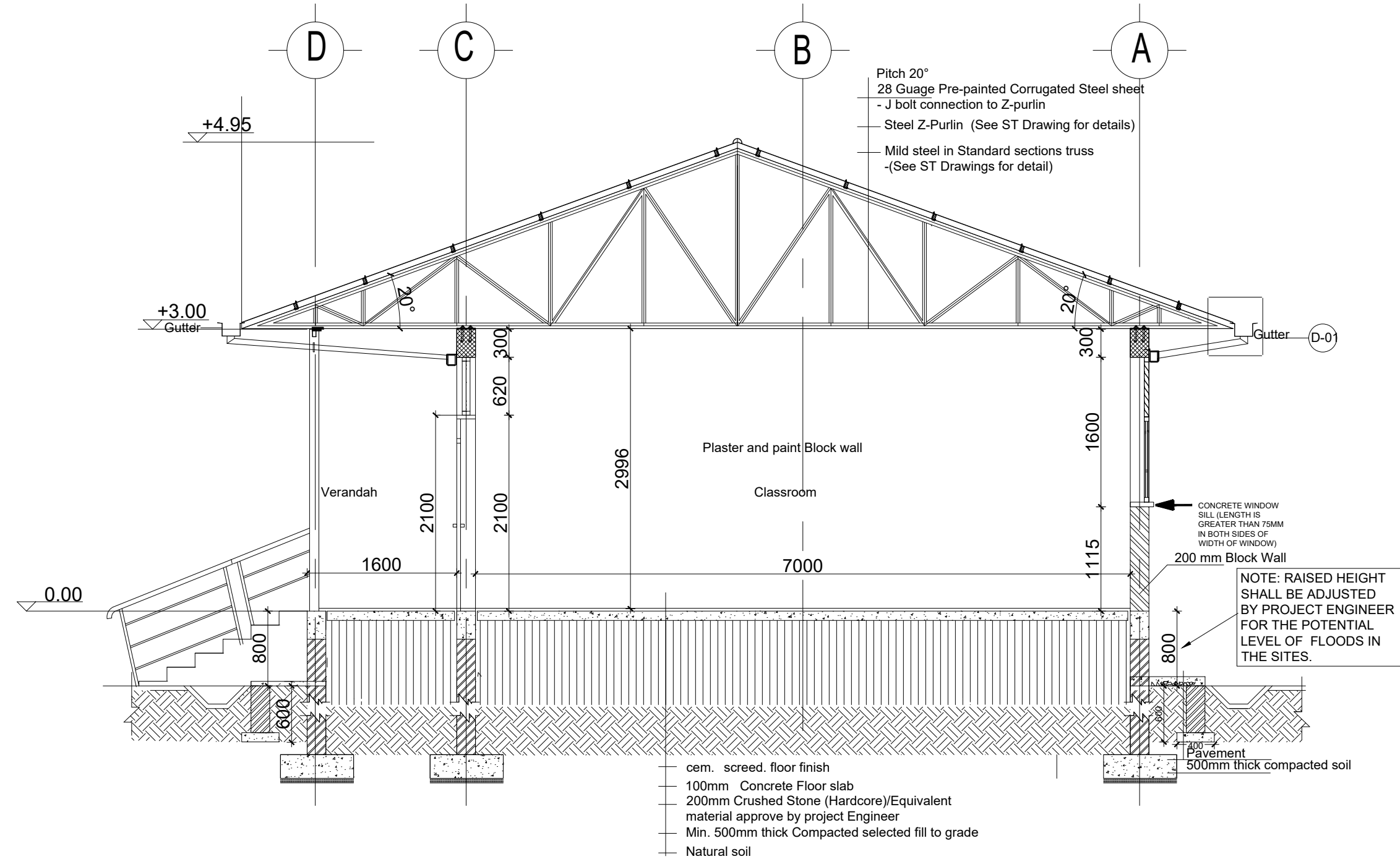
Project:  
  
PROPOSED FOUR CLASSROOMS BLOCK

Drawing Title

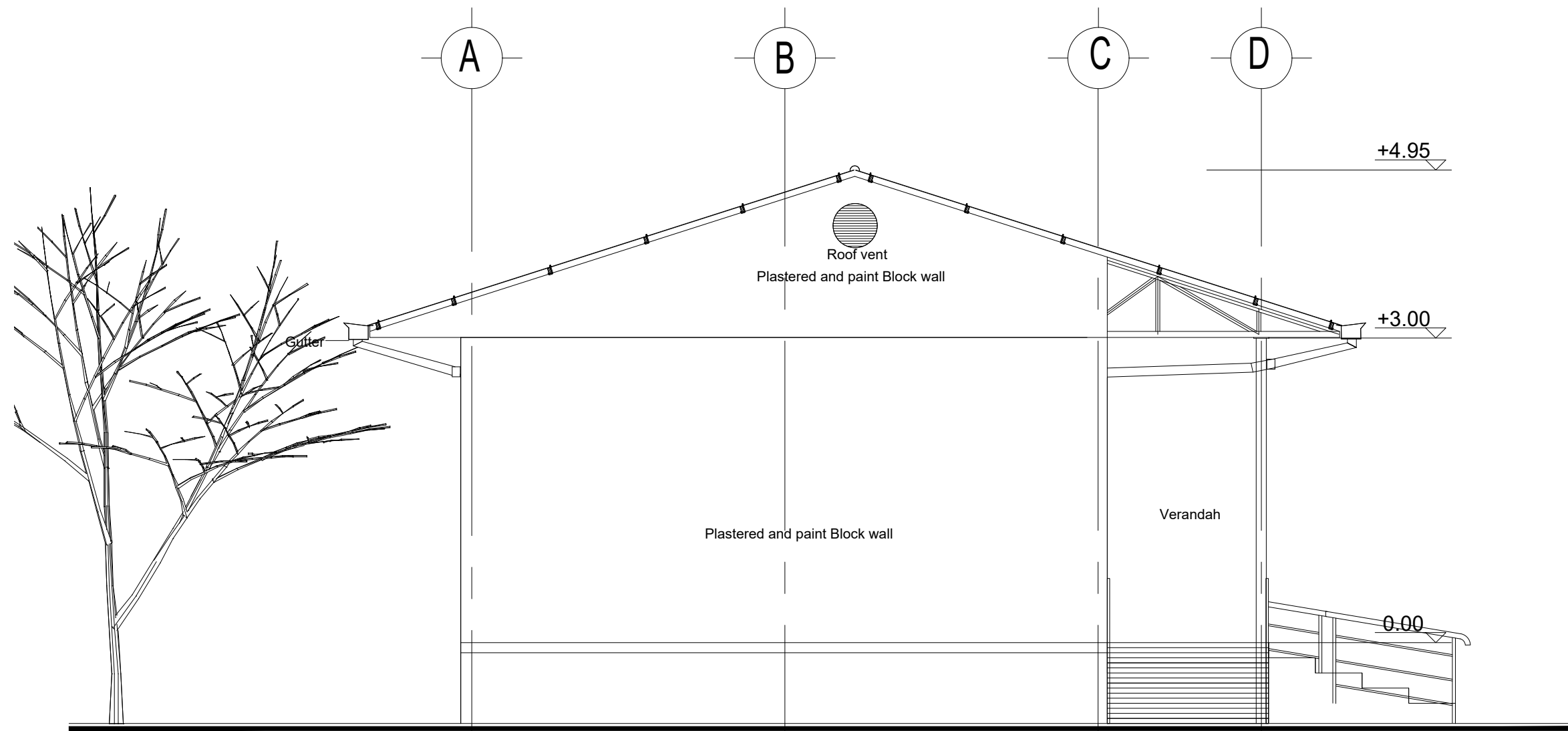
FLOOR PLAN AND ROOF PLAN	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 2/9	Scale: AS SPECIFIED
Date: 10 December 2023	Rev: 0



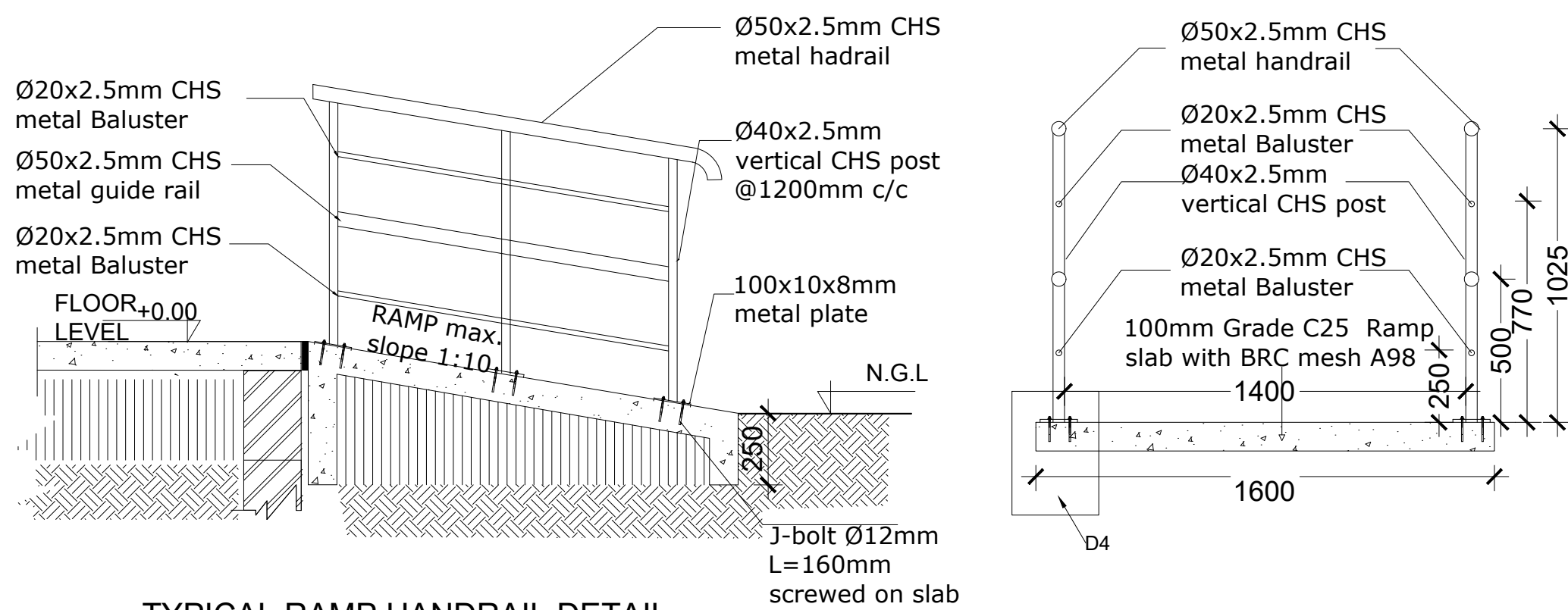




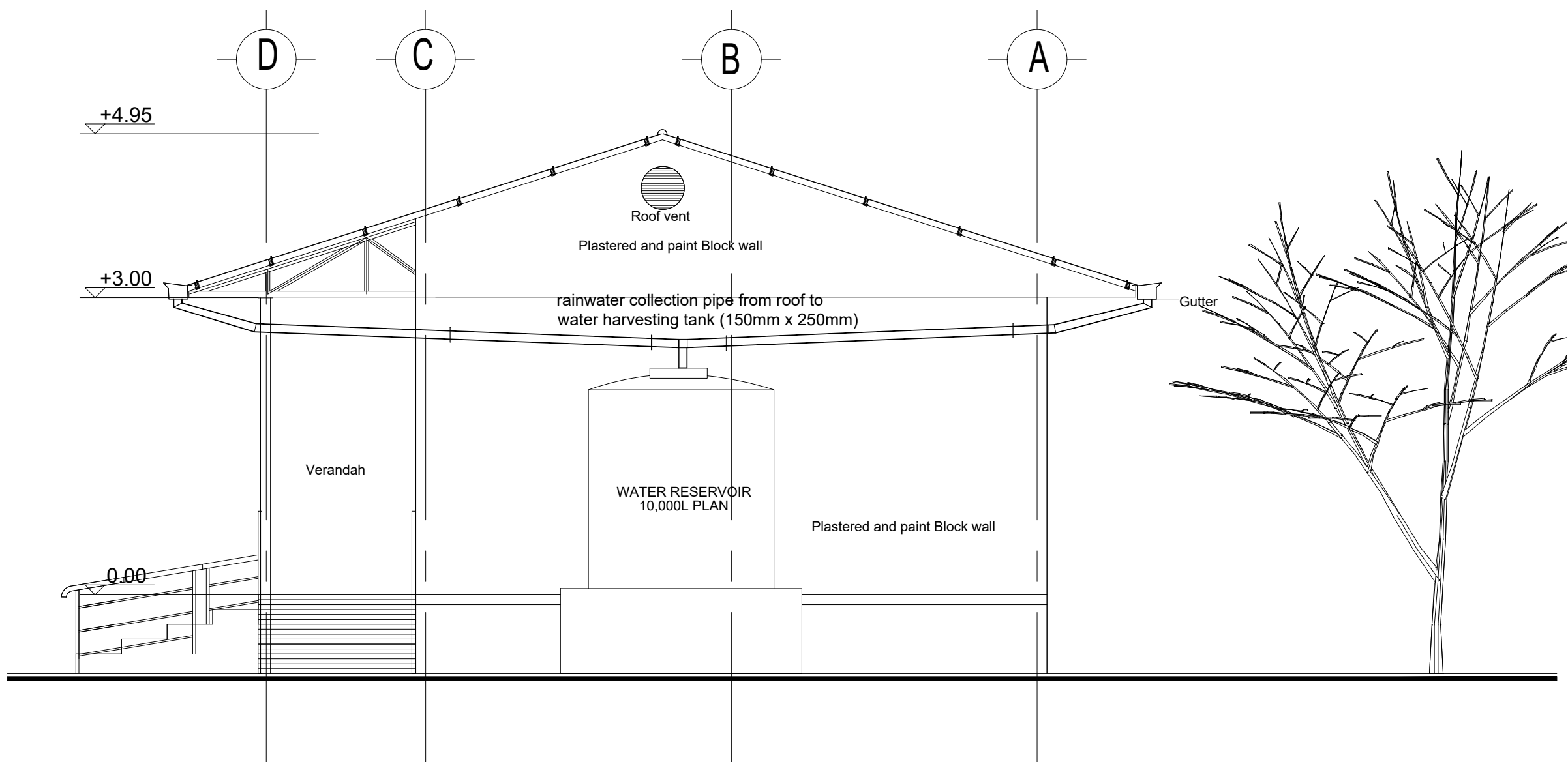
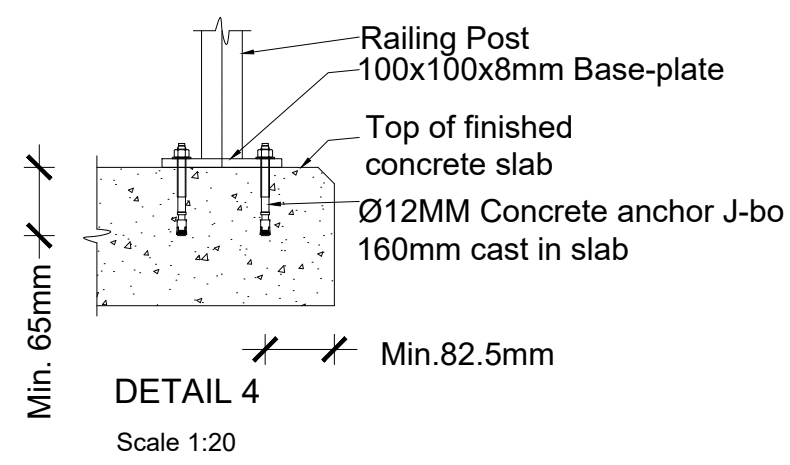
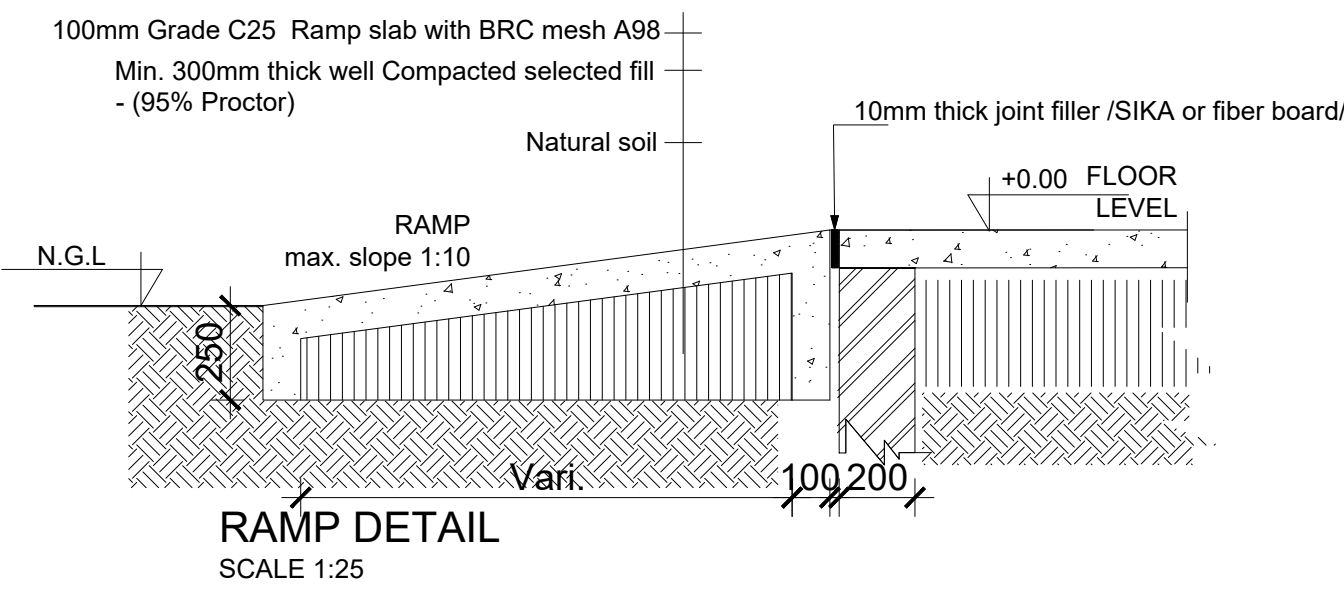
Section A-A  
Sc. 1:50



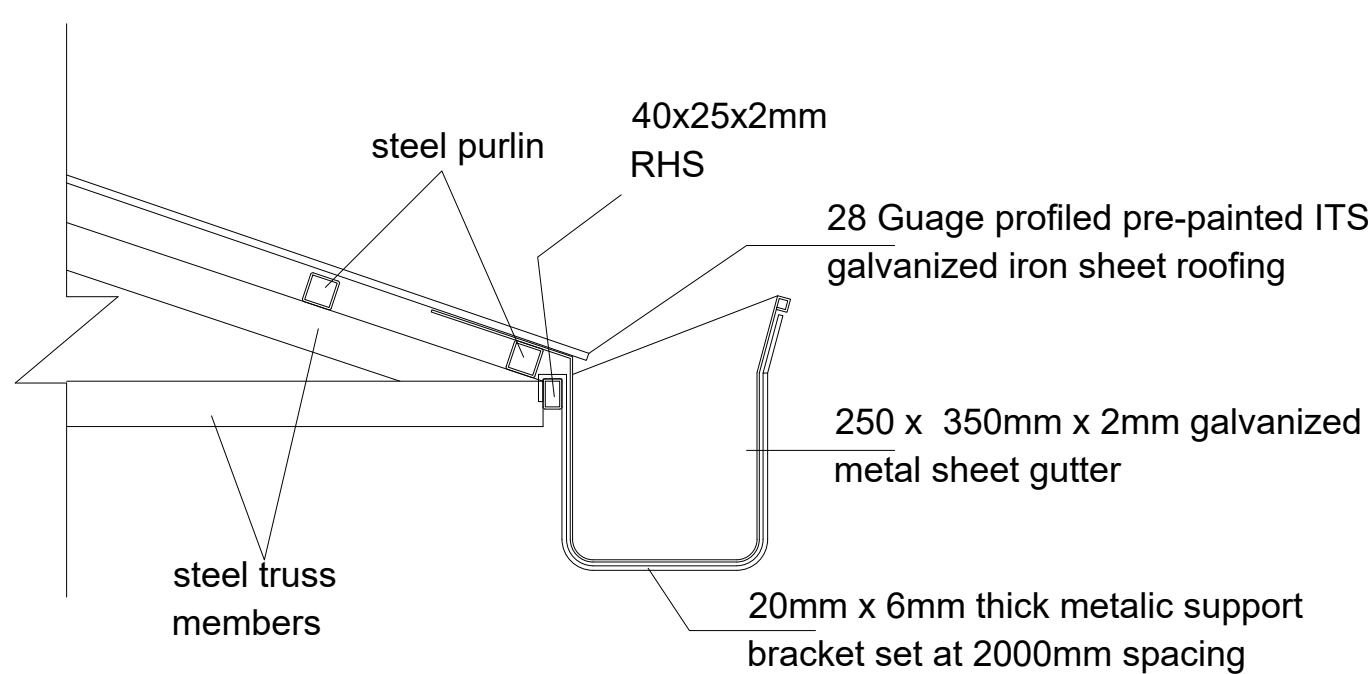
LEFT SIDE ELEVATION  
Sc. 1:50



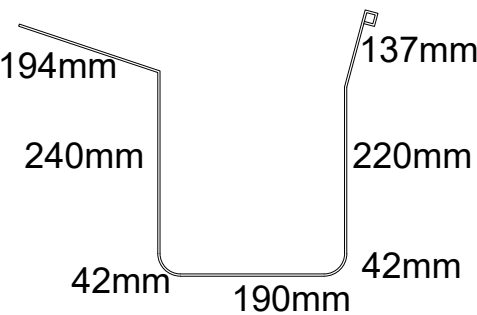
TYPICAL RAMP HANDRAIL DETAIL  
Scale 1:20



RIGHT SIDE ELEVATION  
Sc. 1:50



Detail 01: Overhung Gutter Detail  
sc. 1:10





GENERAL NOTES:

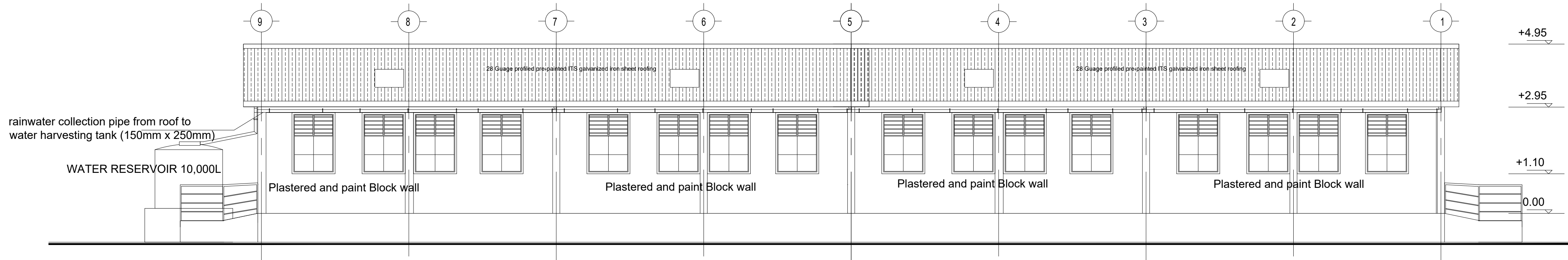


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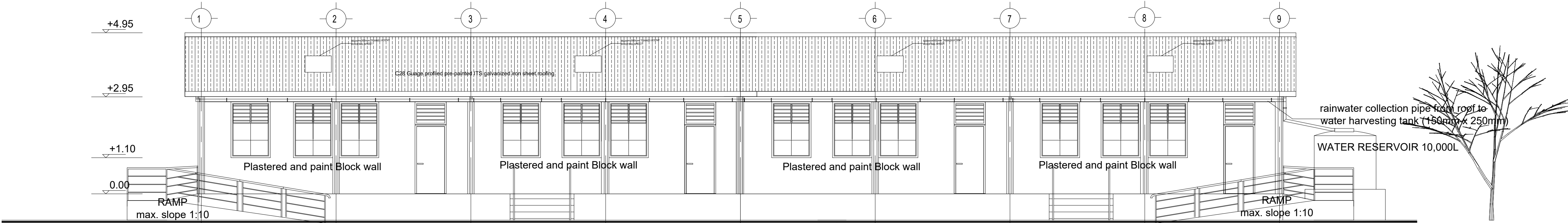
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Program	
 Enhancing Community Resilience and Local Governance Project	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED FOUR CLASSROOMS BLOCK	
Drawing Title	
SECTION AND ELEVATIONS	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 3/9	Scale: AS SPECIFIED
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REAR ELEVATION  
Sc. 1:75



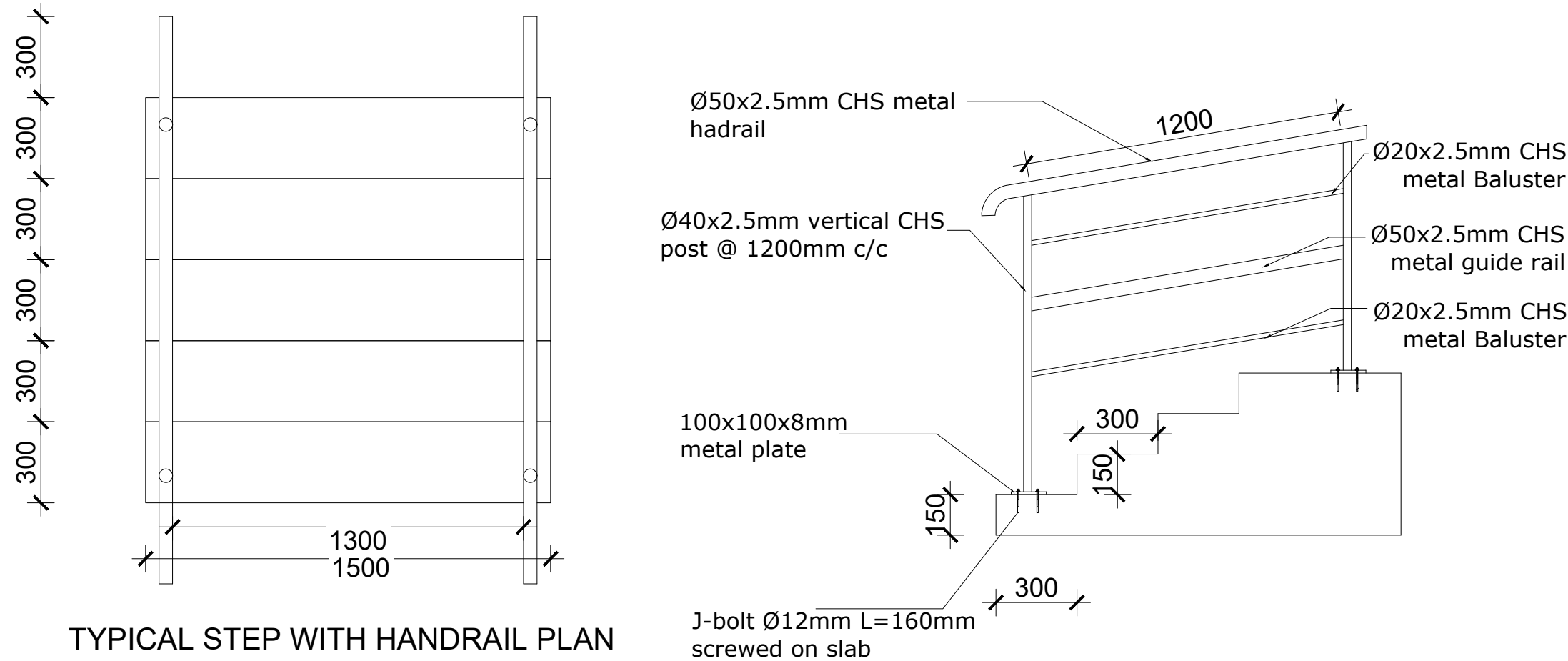
FRONT ELEVATION  
Sc. 1:50

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.

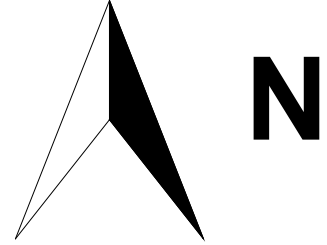
WINDOW SCHEDULE

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 FOUR 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
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- 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

GENERAL NOTES:

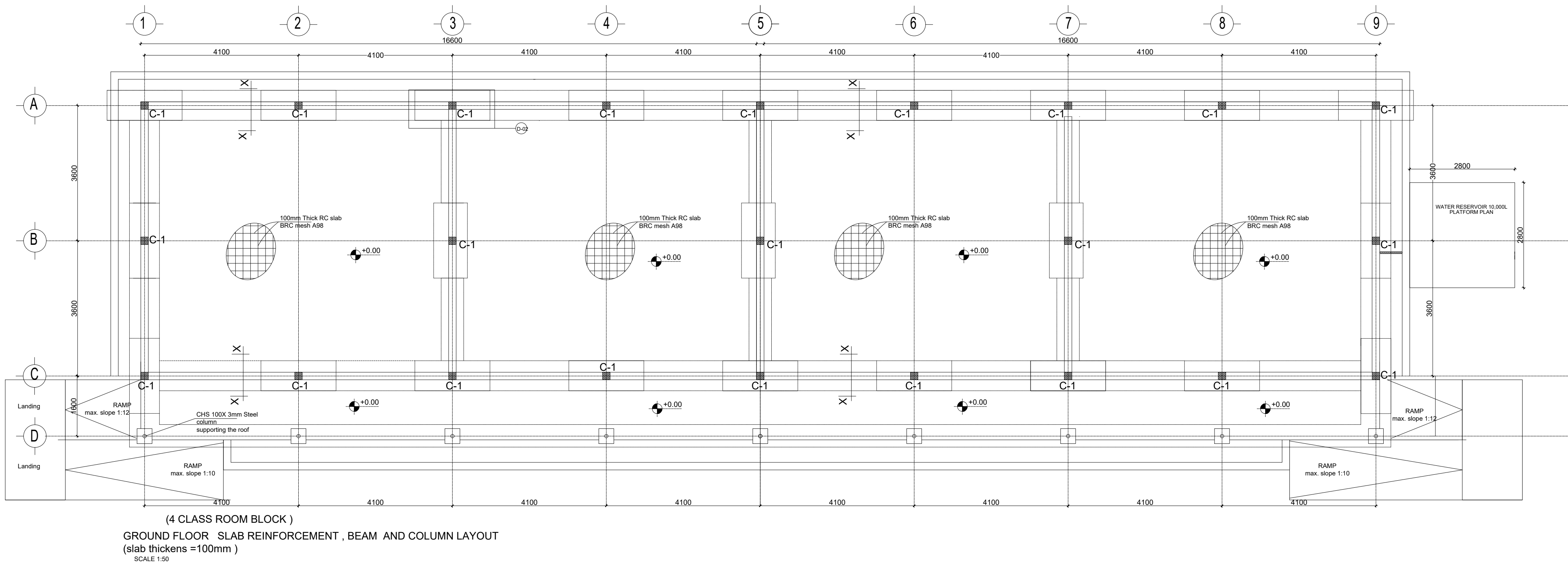


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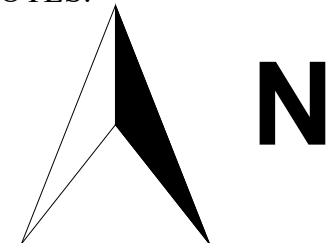
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Program	
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Client:	
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<div></div>	
Project:	
PROPOSED FOUR CLASSROOMS BLOCK	
Drawing Title	
STRUCTURAL NOTES	
Designed By: H.A	Drawn by: H.A
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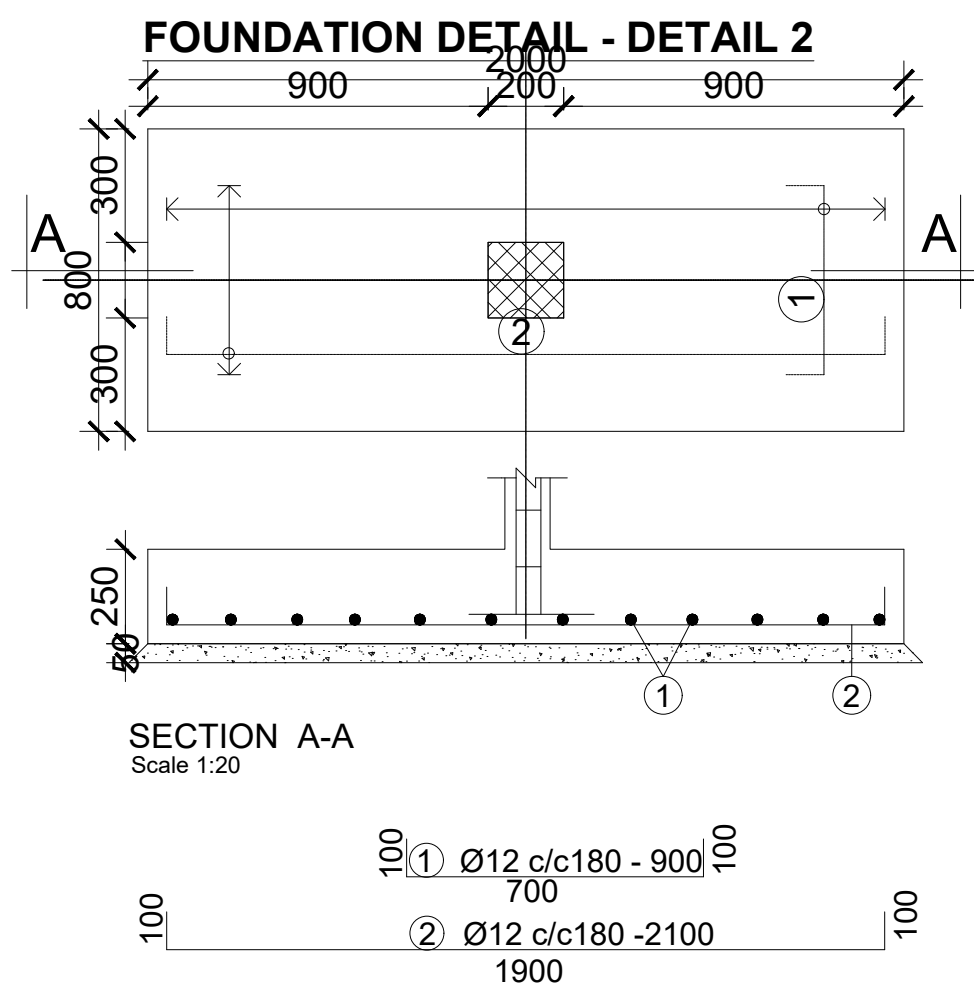
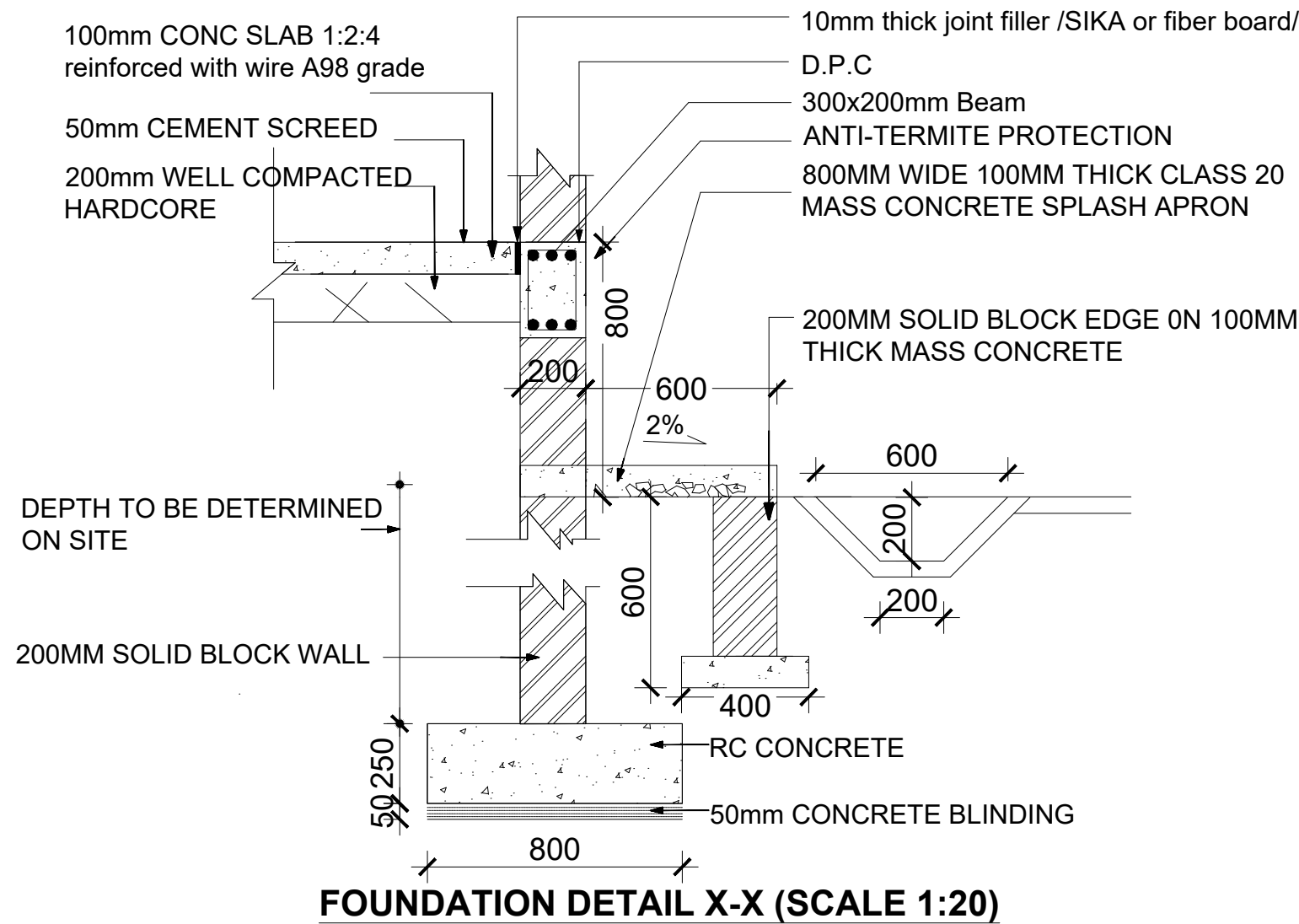
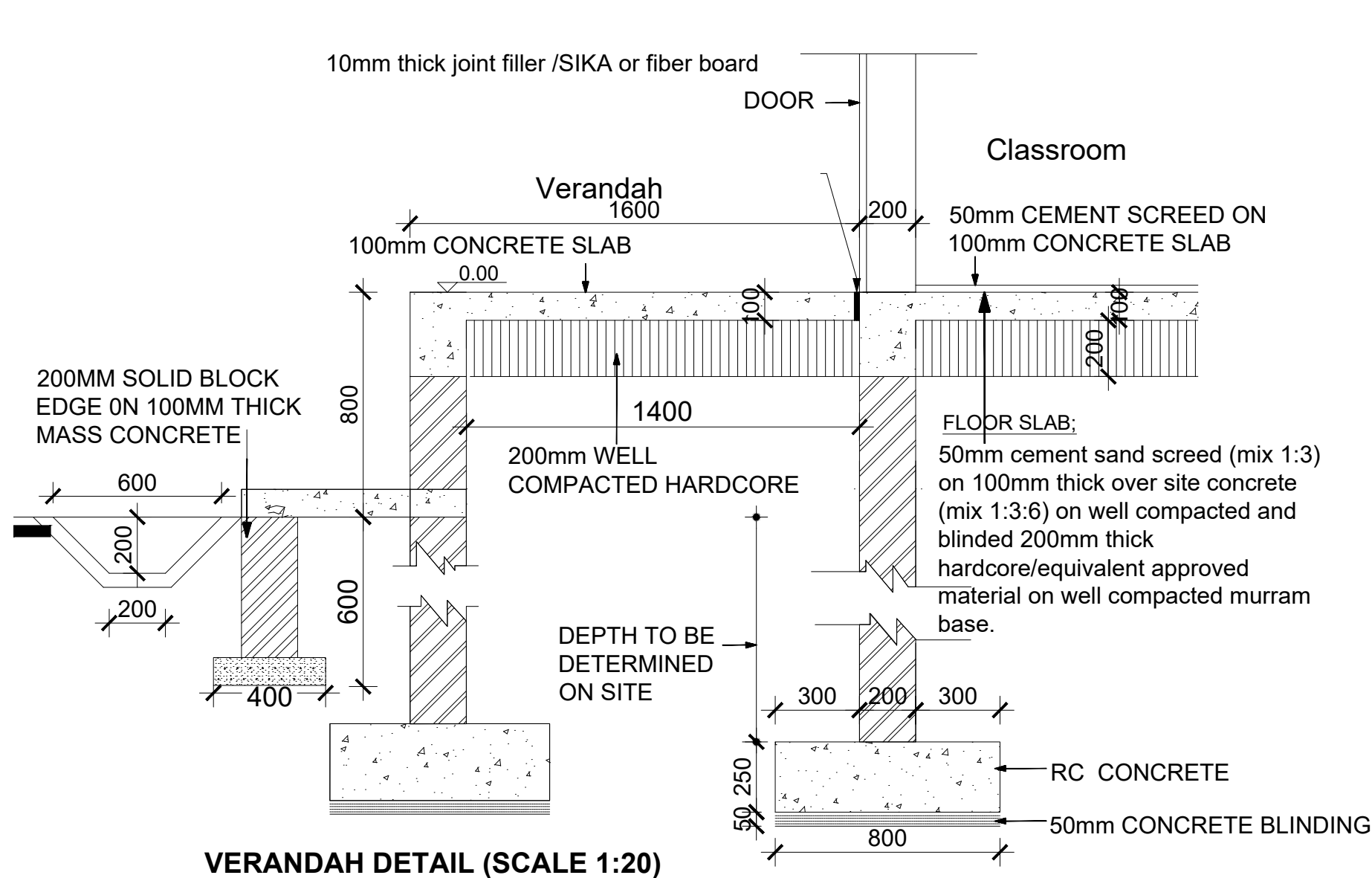
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Program



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Implemented By:



Project:

PROPOSED FOUR CLASSROOMS BLOCK

Drawing Title

FOUNDATION PLAN AND FOUNDATION DETAILS

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

Approved: -----

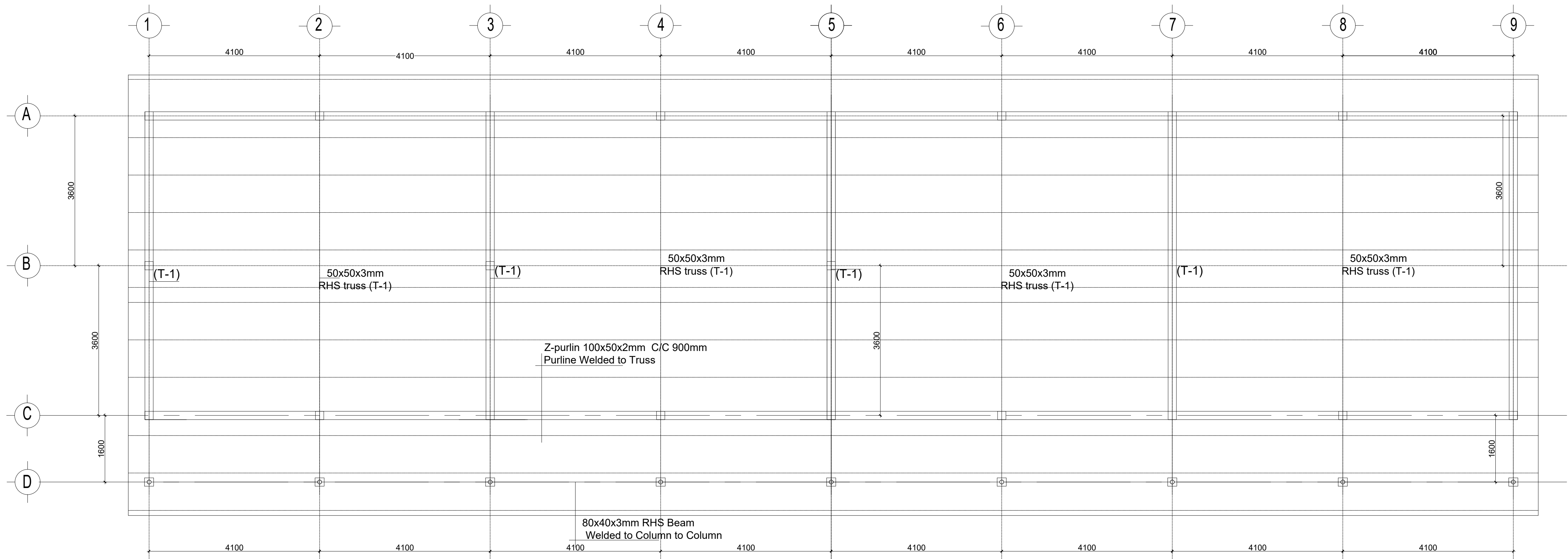
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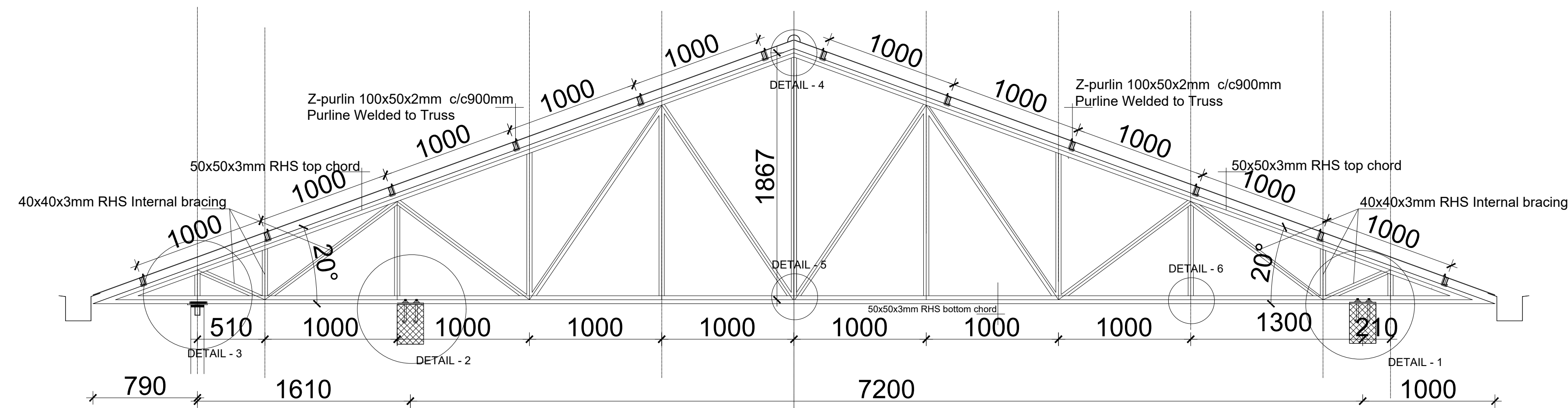
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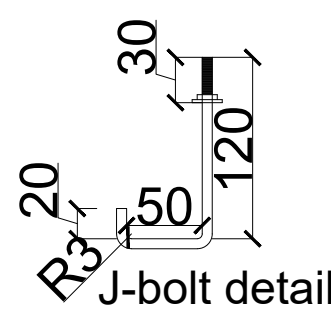
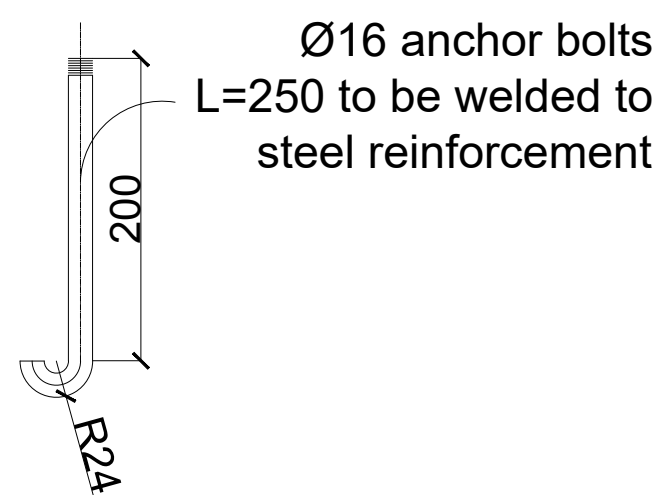




(4 CLASS ROOM BLOCK )  
ROOF BEAM AND TRUSS LAYOUT  
SCALE 1:60



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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- B) Concrete reinforcement bar
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- D) Grade of Bolts
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### Program



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Resilience and Local  
Governance Project

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### Implemented By:



### Project:

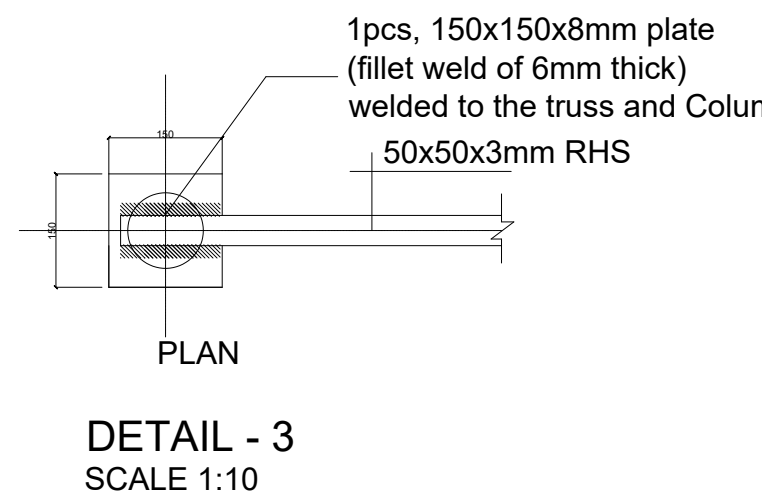
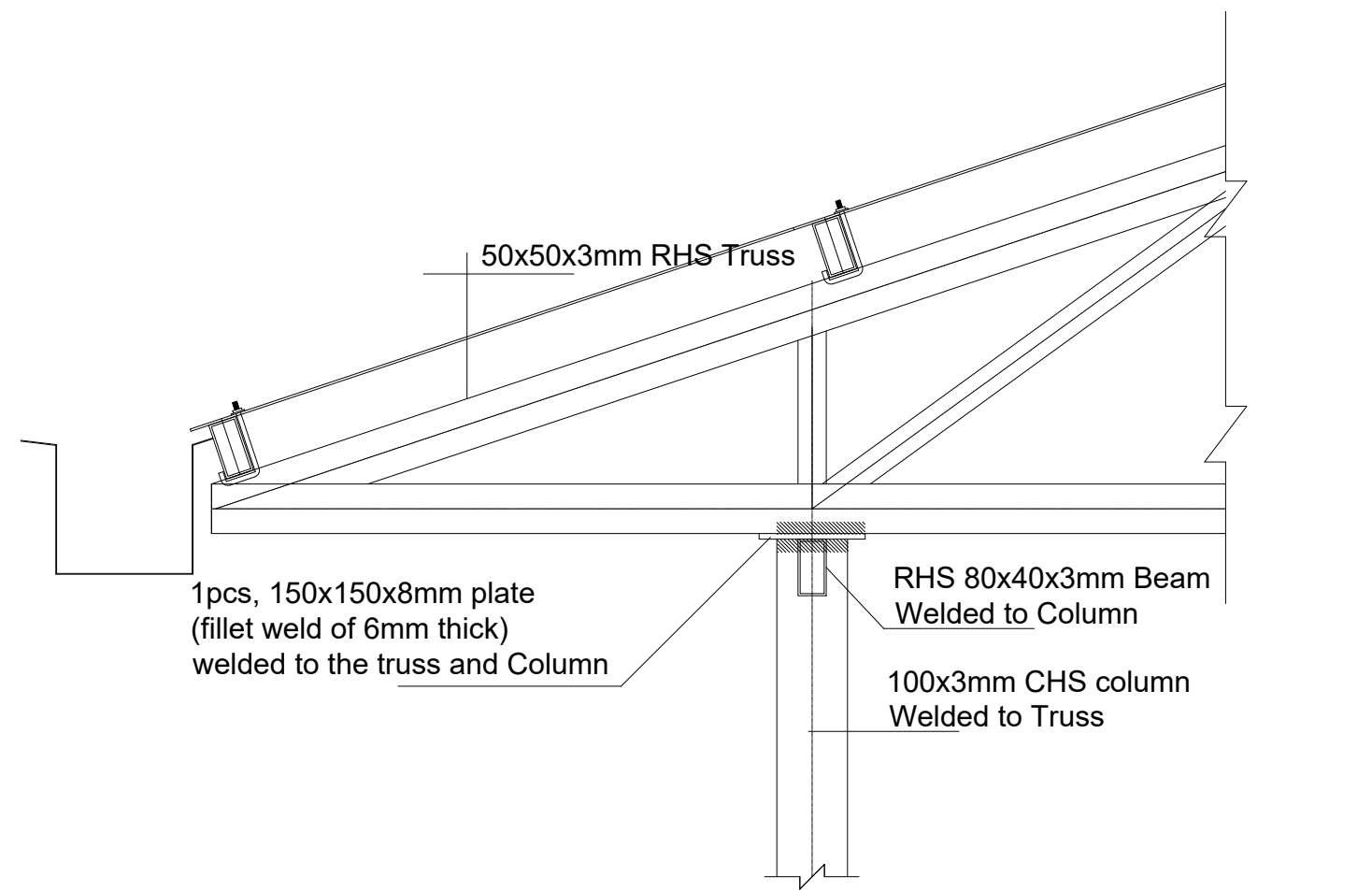
PROPOSED FOUR CLASSROOMS BLOCK

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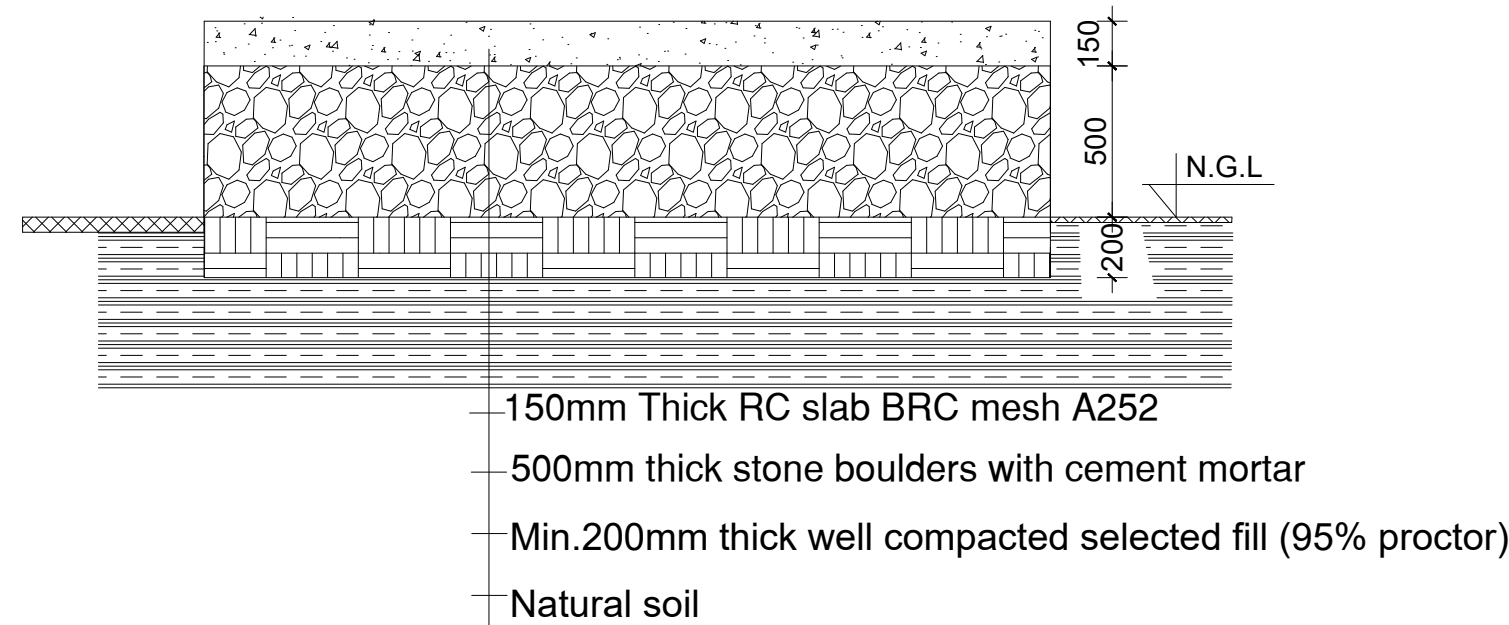
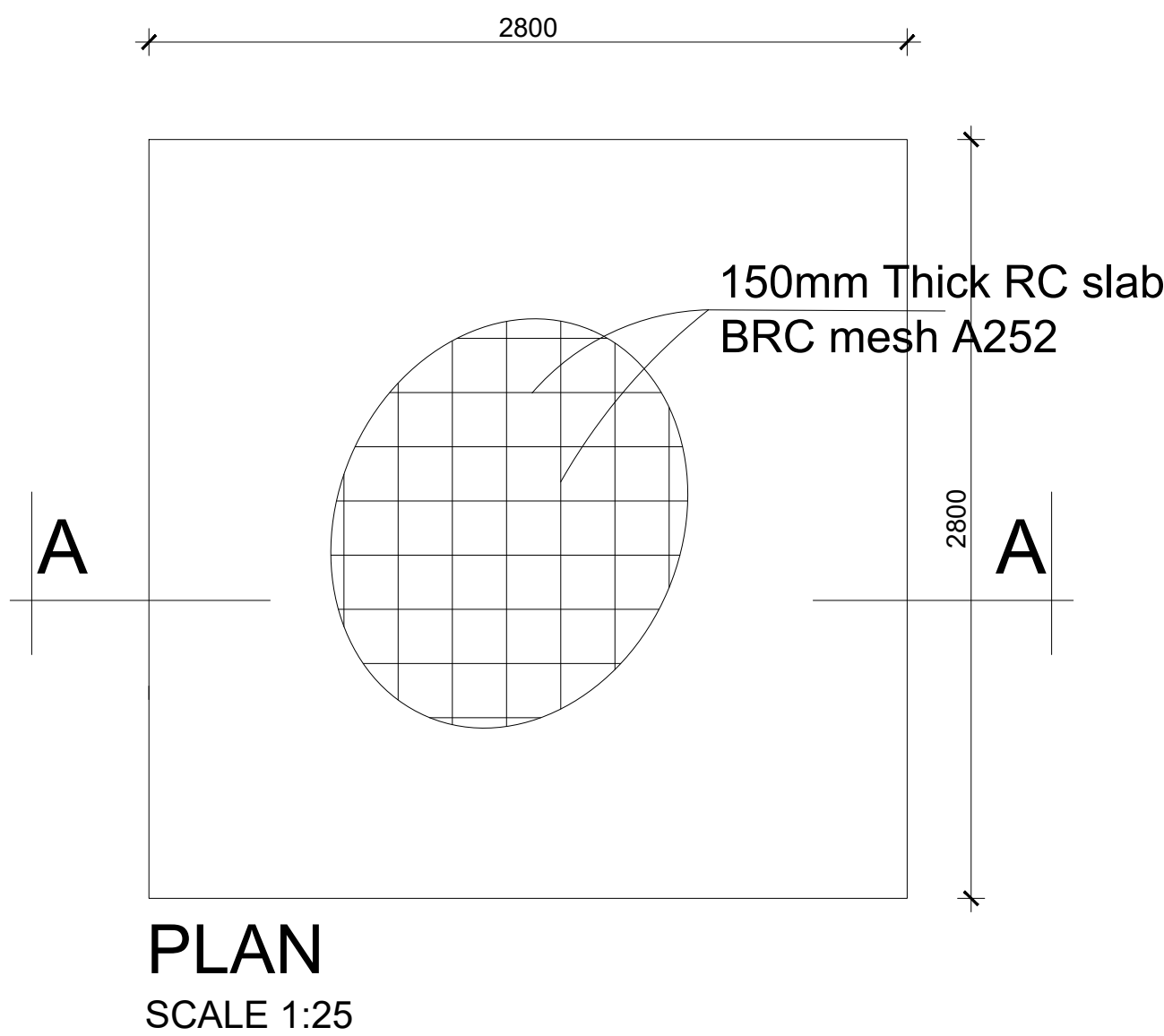
### TRUSS LAYOUT AND DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 7/9	Scale: AS SPECIFIED
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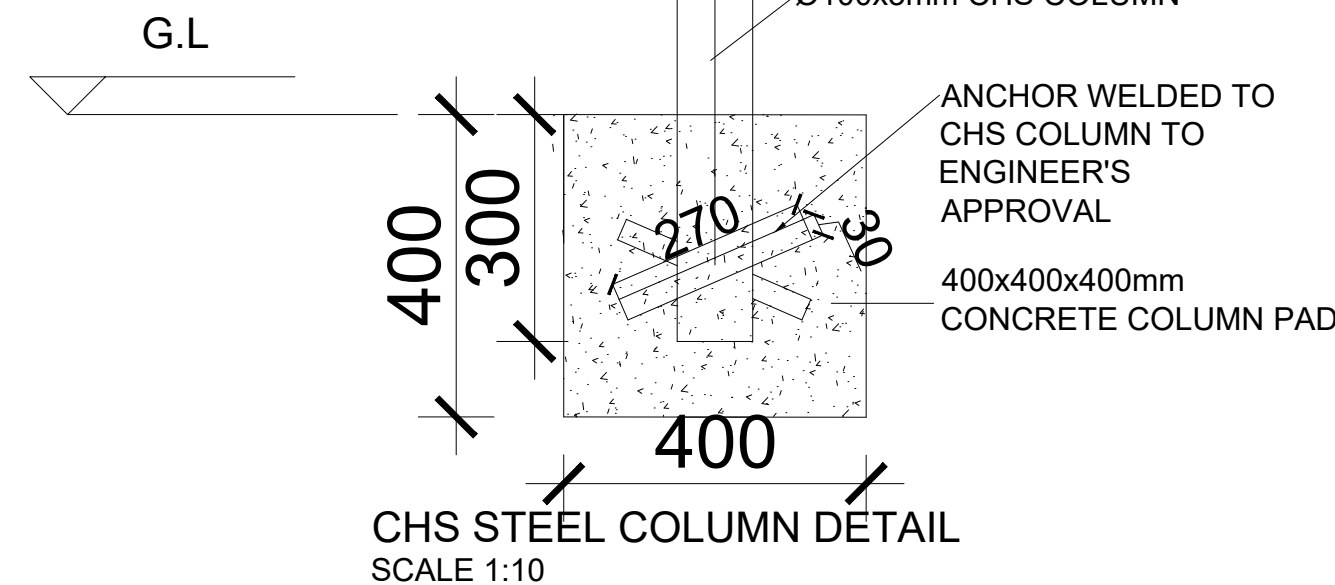
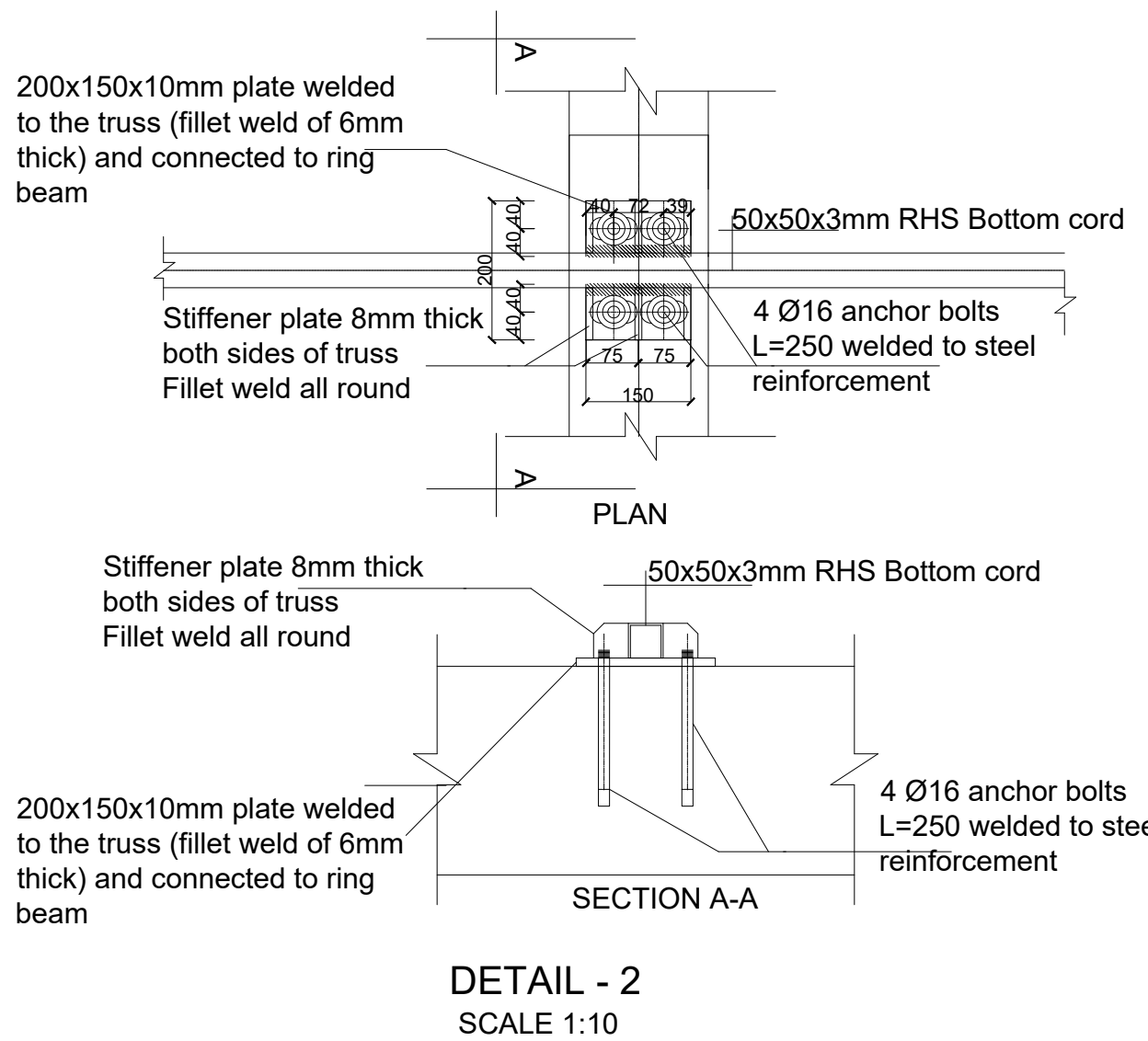
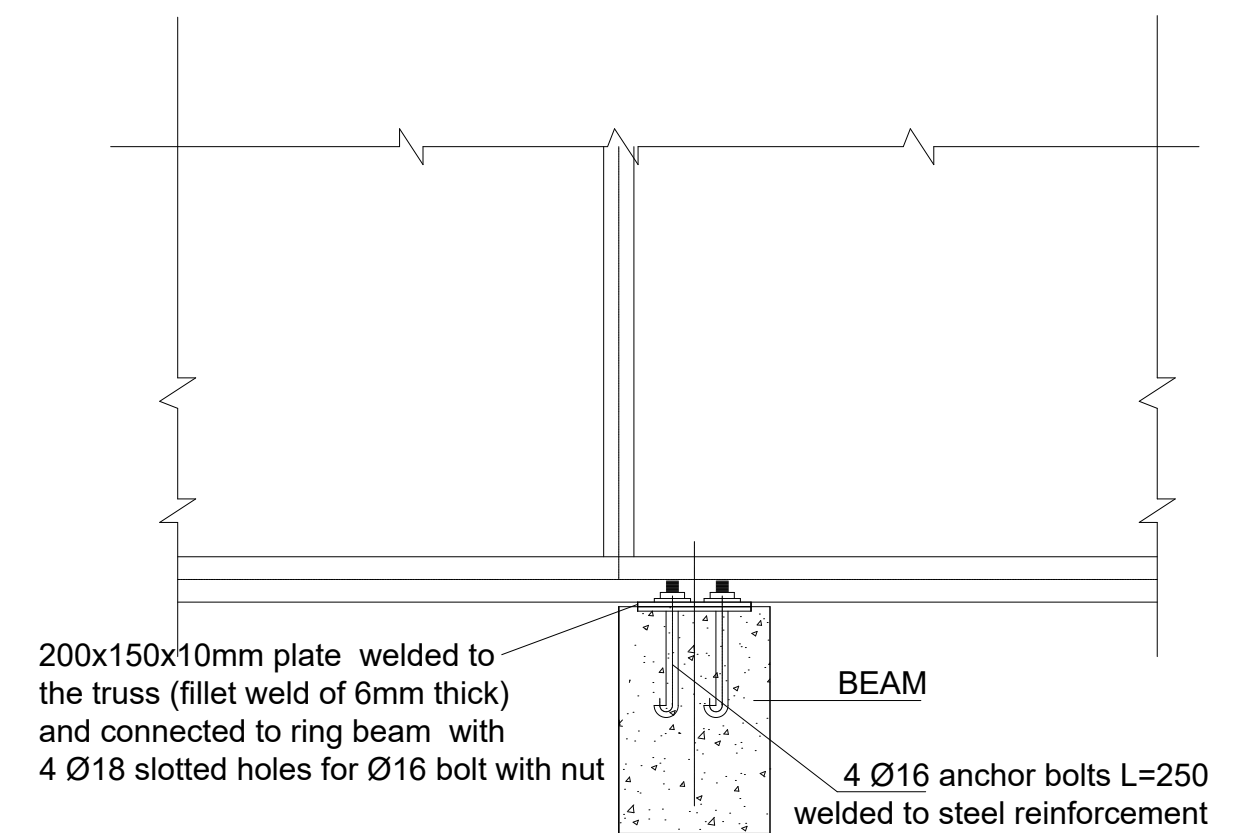
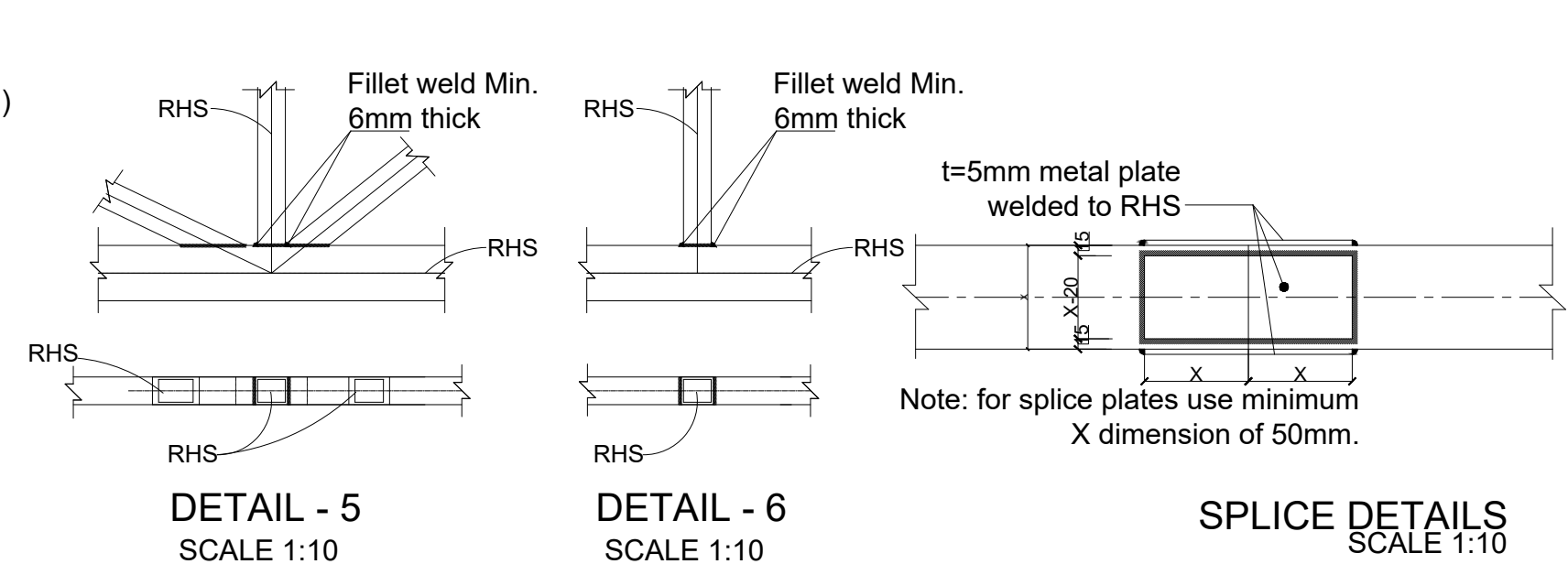
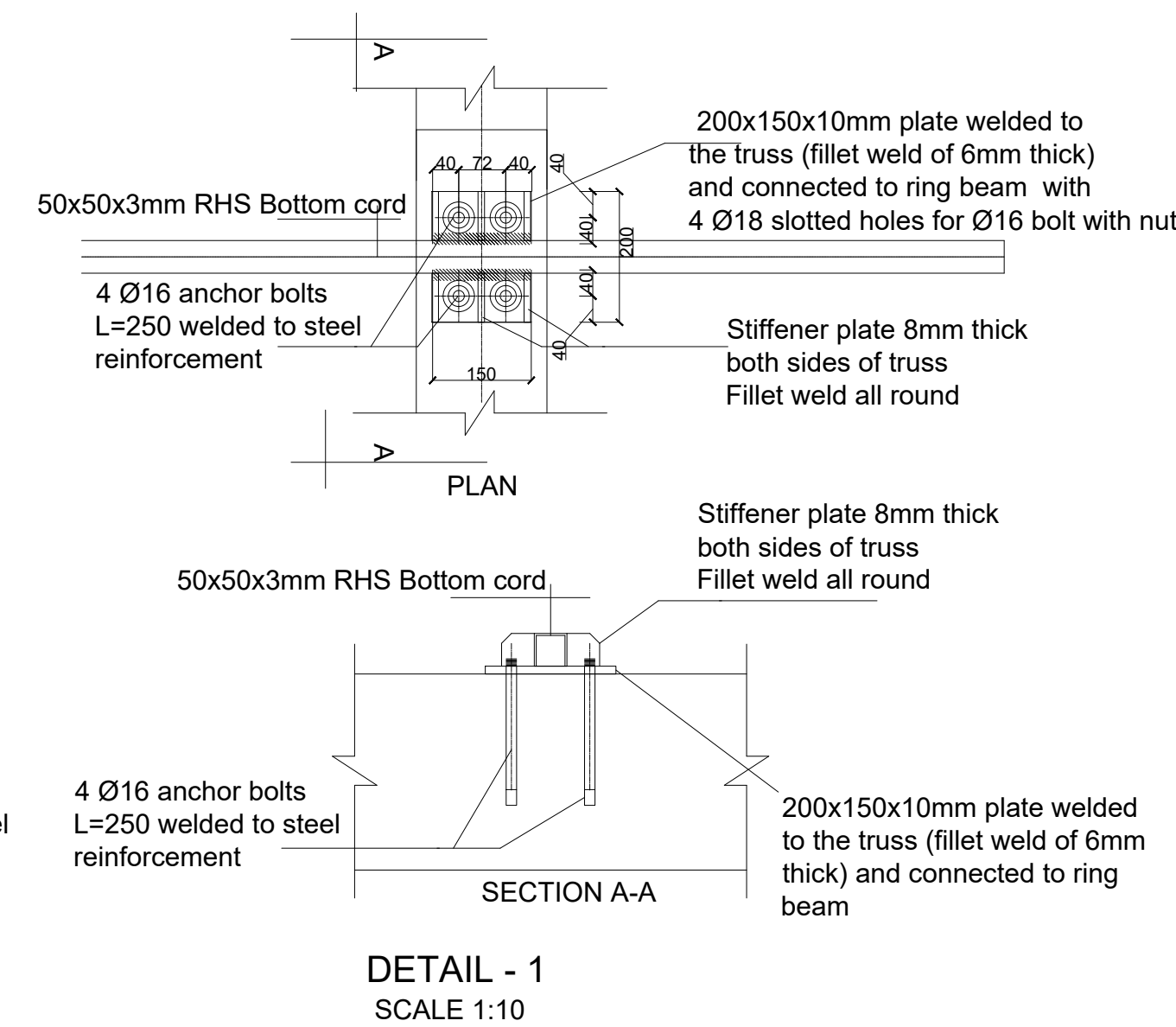
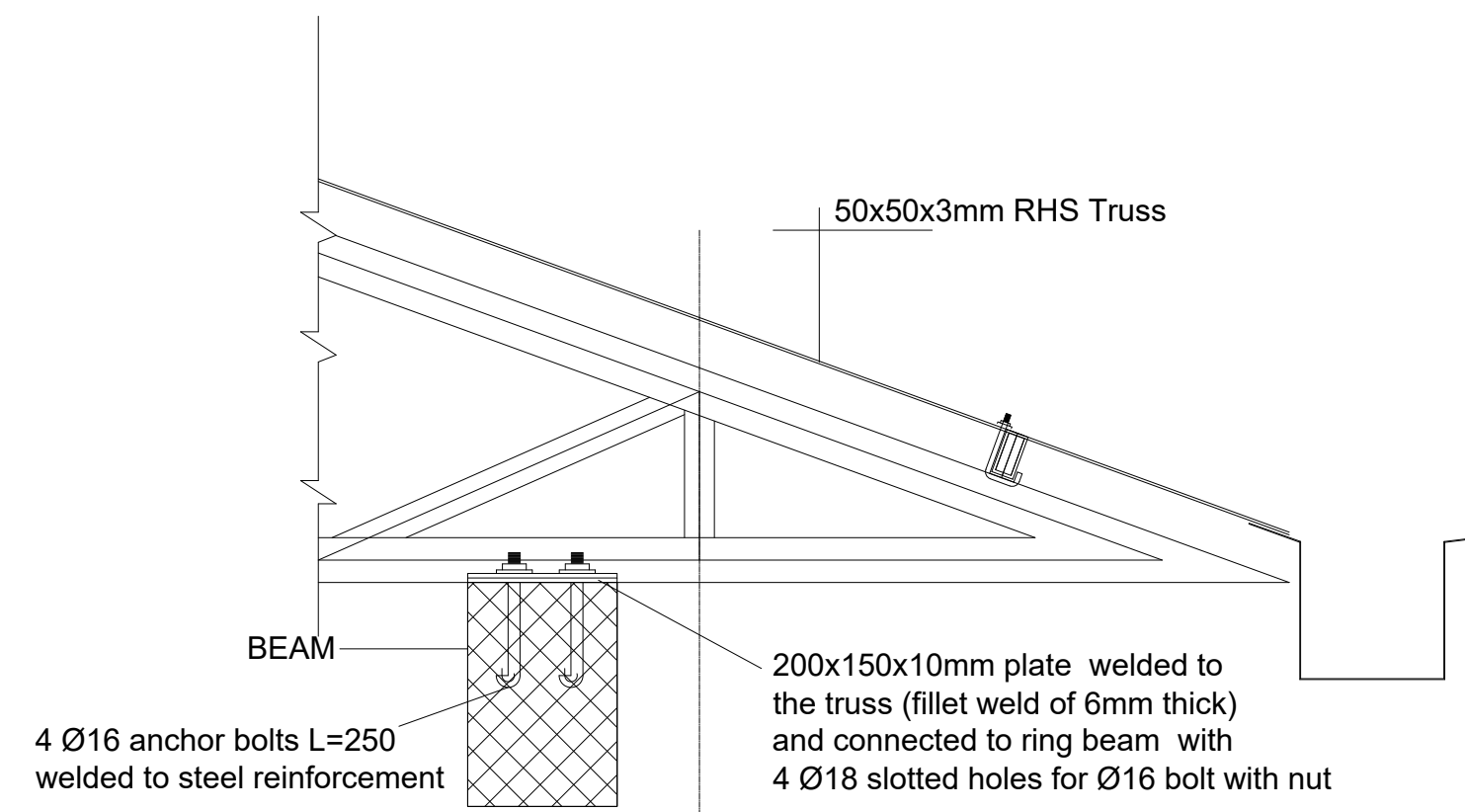
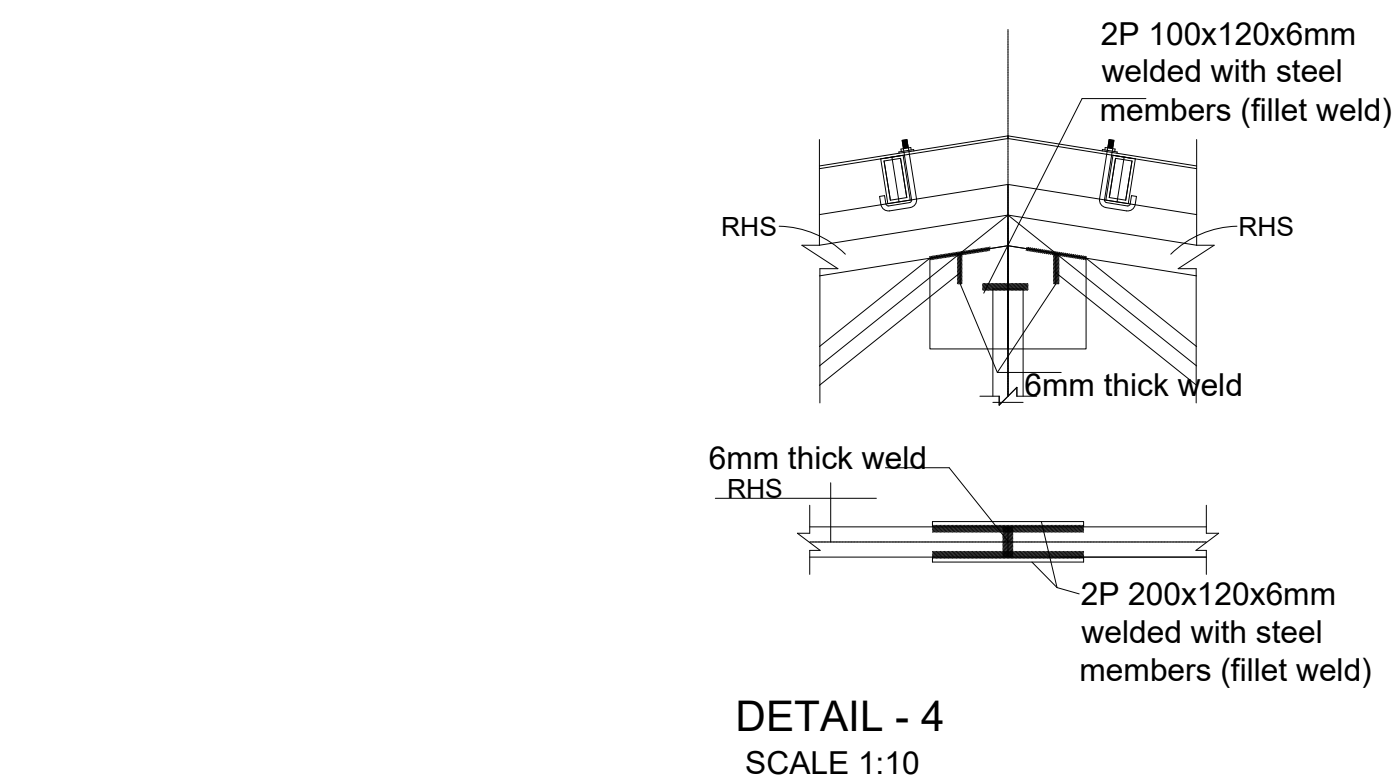


## WATER RESERVOIR PLATFORM PLAN



## SECTION A-A

SCALE 1:25



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### Program



### Client:

GOVERNMENT OF SOUTH SUDAN

### Implemented By:



### Project:

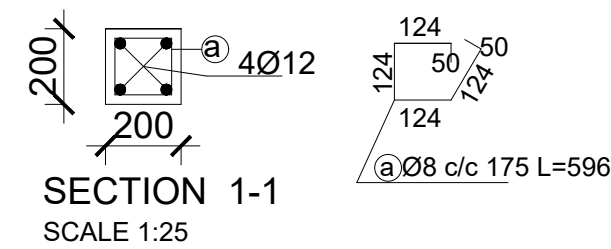
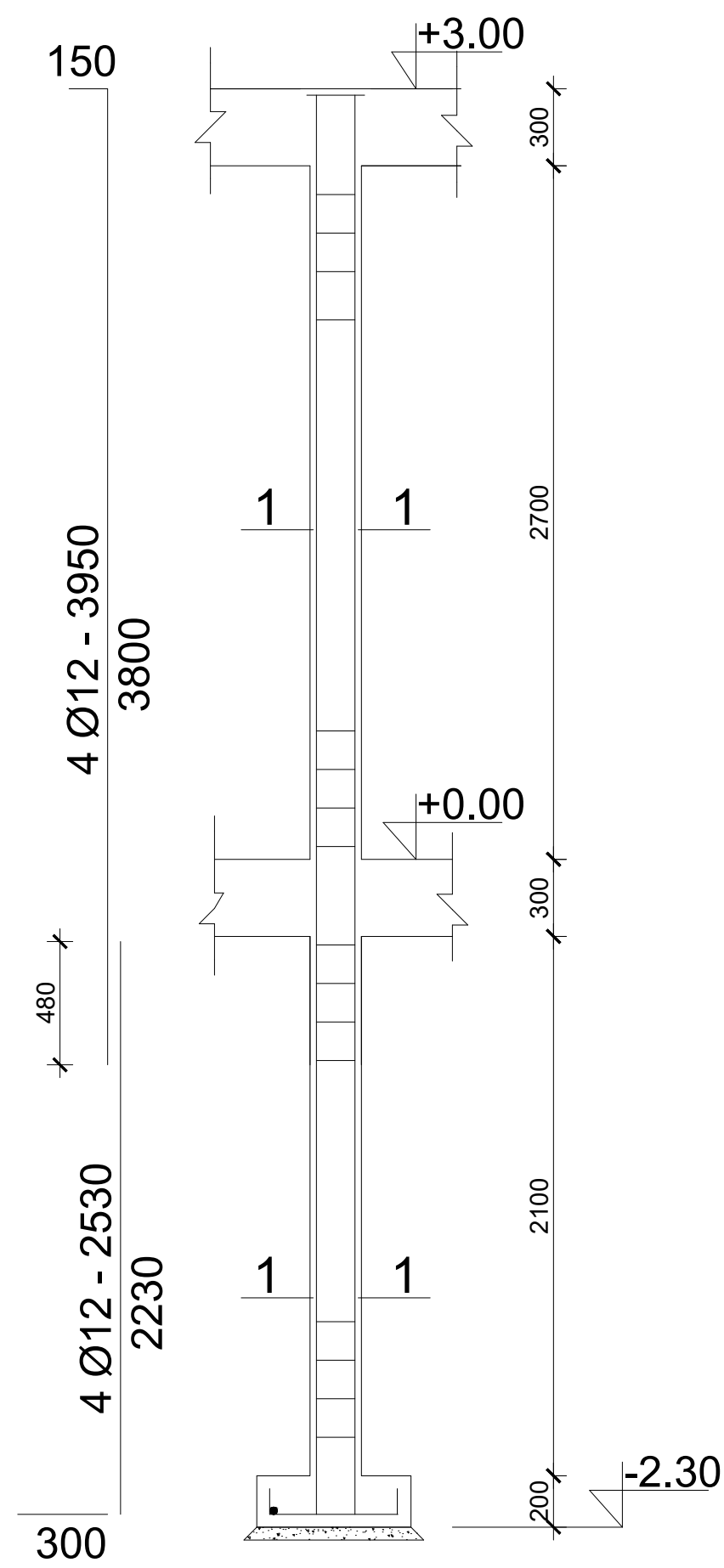
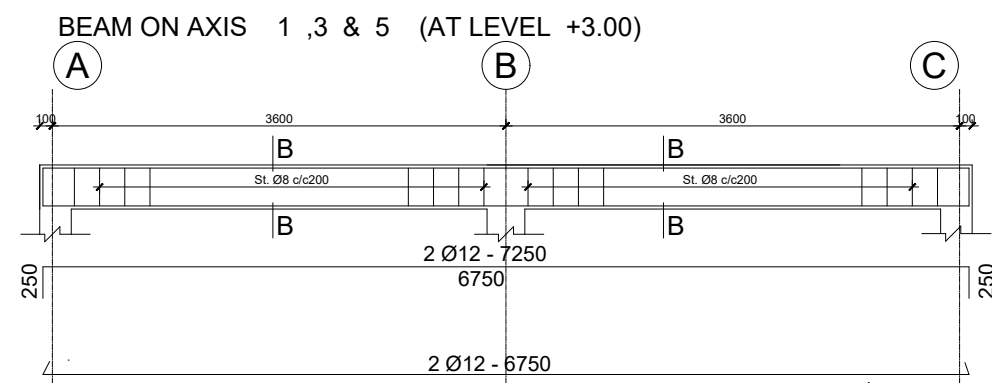
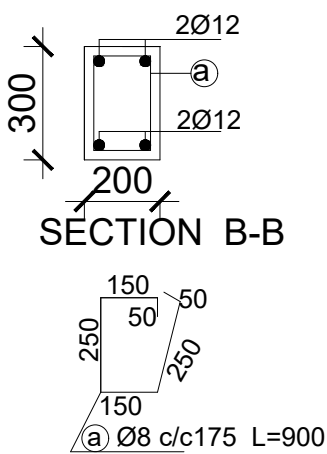
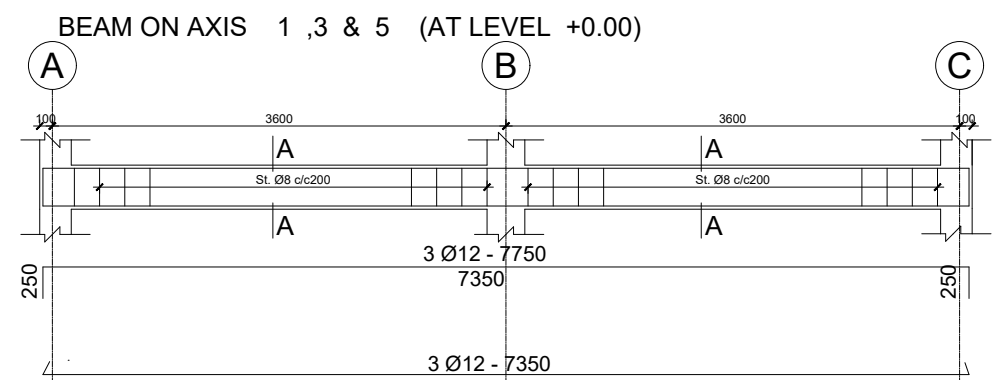
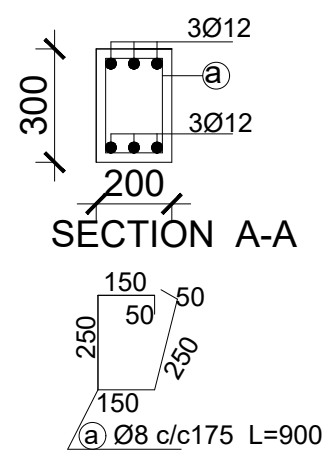
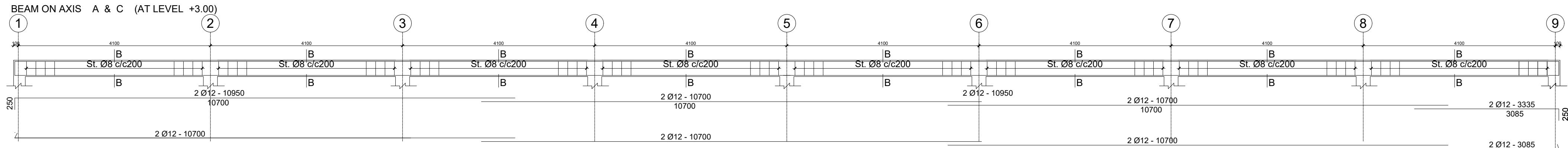
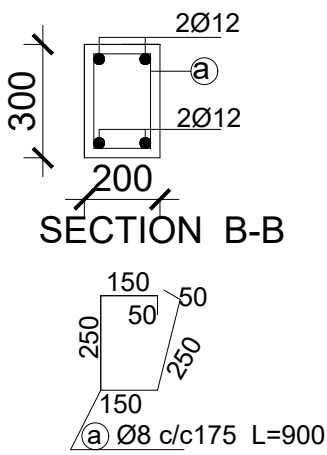
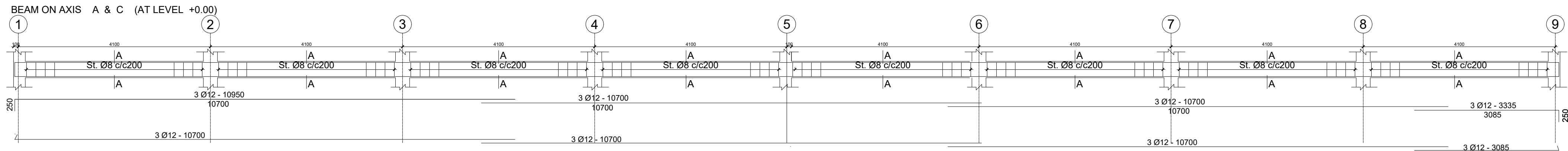
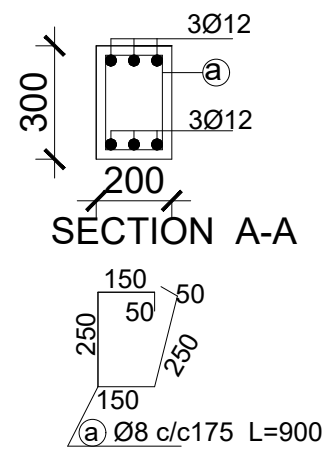
PROPOSED FOUR CLASSROOMS BLOCK

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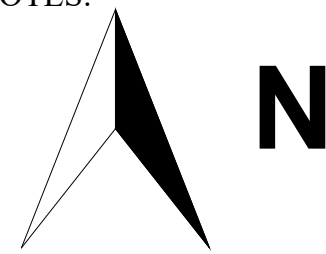
### TRUSS, BEAM AND COLUMN DETAILS

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





# GENERAL NOTES:



1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

## 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 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

### Protection of steel work

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

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## Program



## Client:

GOVERNMENT OF SOUTH SUDAN

## Implemented By:



## Project:

PROPOSED FOUR CLASSROOMS BLOCK

## Drawing Title

## TRUSS, BEAM AND COLUMN DETAILS

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