

# CLASSROOM BLOCK - with 2 classrooms - (Black Cotton Soil)


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

Rev:	Date	Description:	Approved
----	--/--/----	-----	----
----	--/--/----	-----	----
----	--/--/----	-----	----
----	--/--/----	-----	----

Program




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

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED TWO CLASSROOM

Drawing Tittle

COVER PAGE

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

Approved: ----

Sheet #: 1/9

Scale: AS SPECIFIED

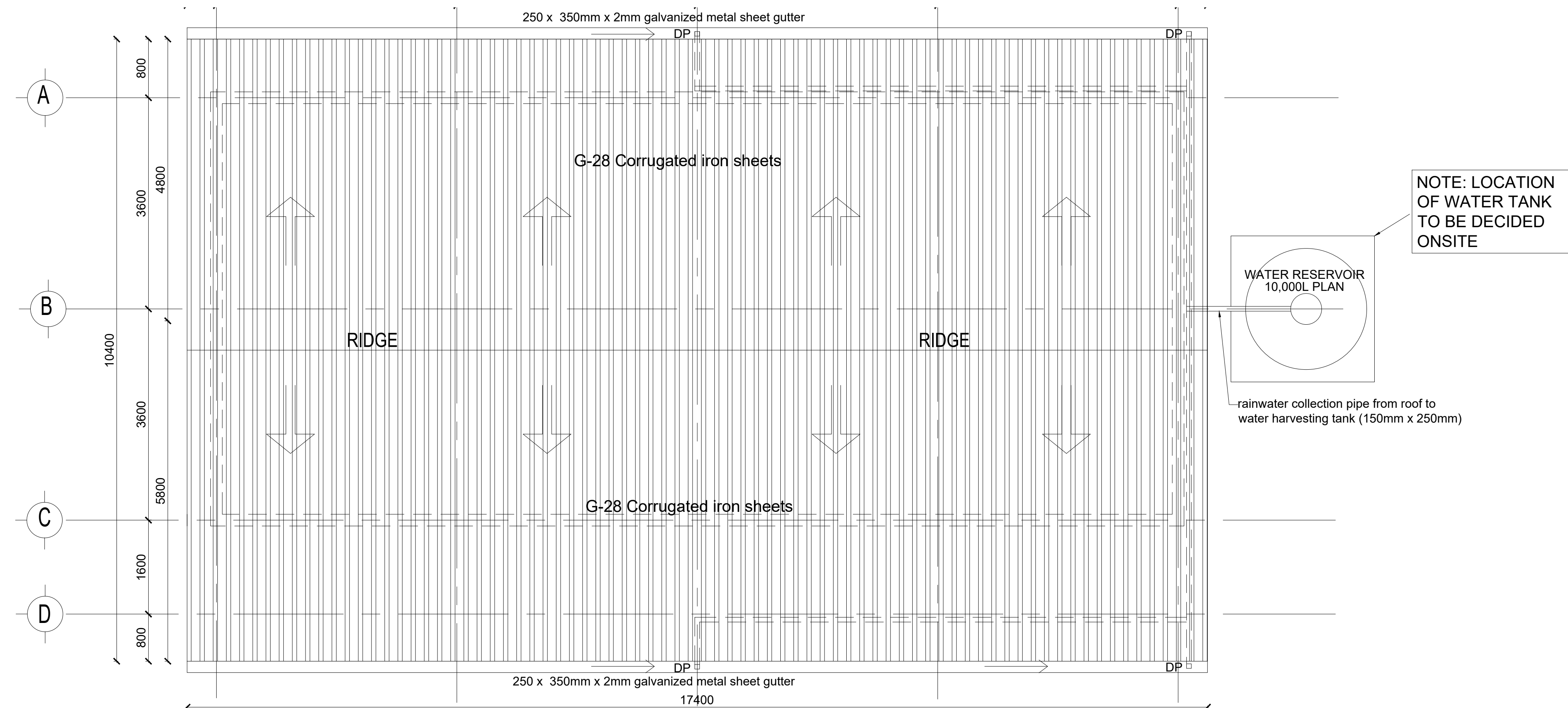
Date: 7 January 2024

Rev: 0



2 CLASS ROOM BLOCK FLOOR PLAN

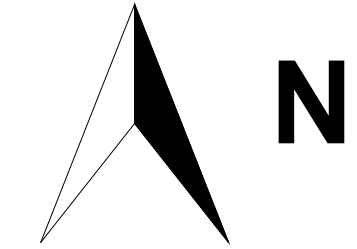
Sc. 1:50



2 CLASS ROOM BLOCK ROOF PLAN

Sc. 1:50

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

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

Program



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

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

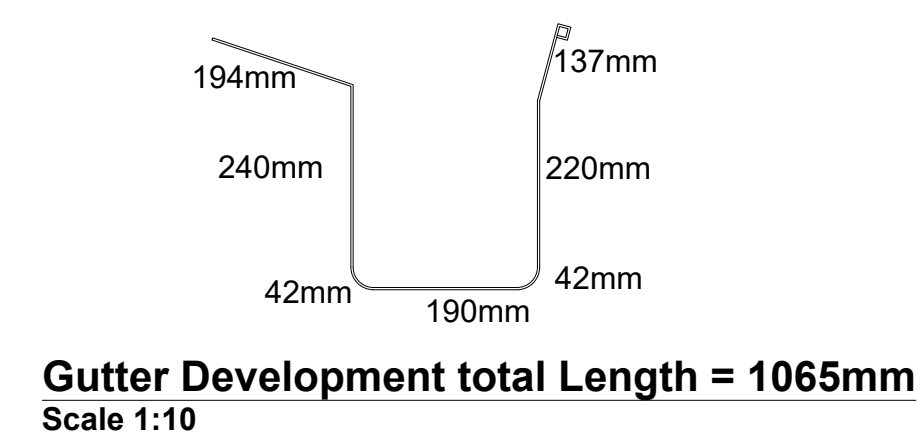
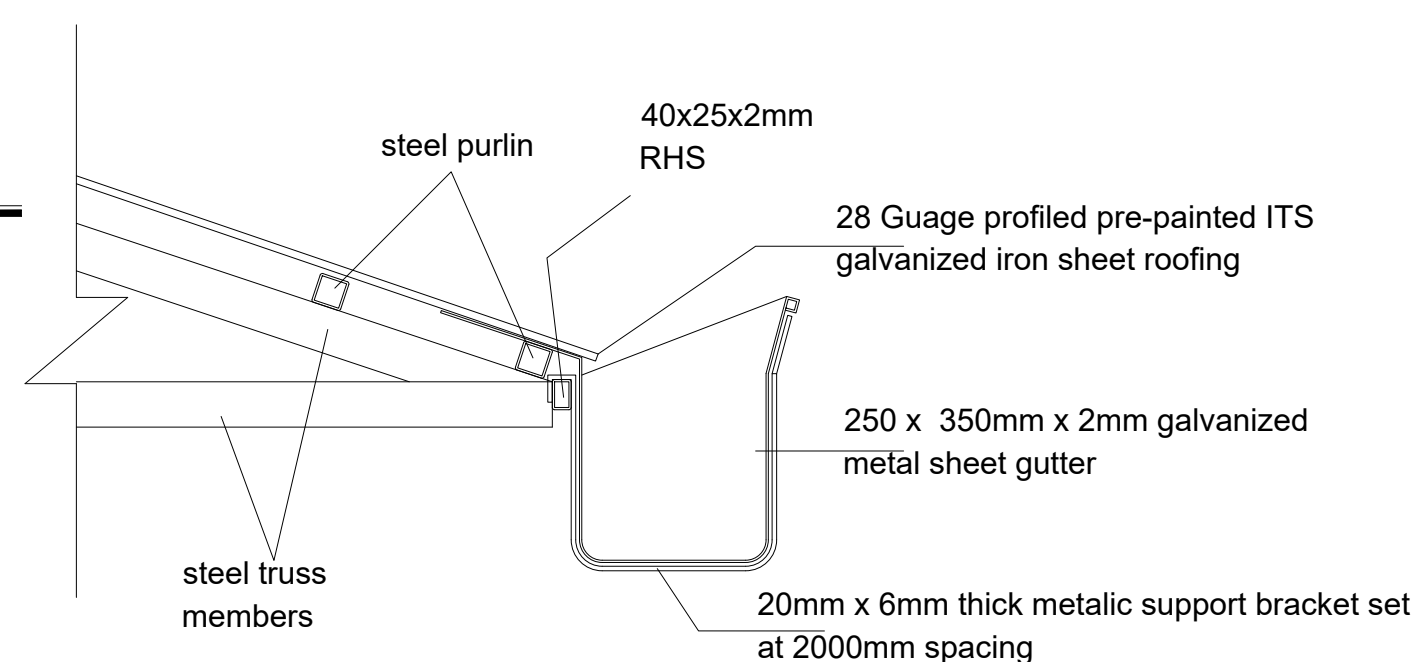
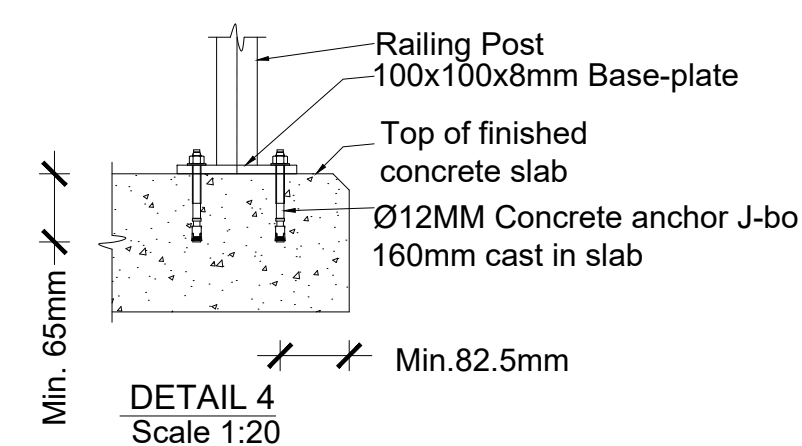
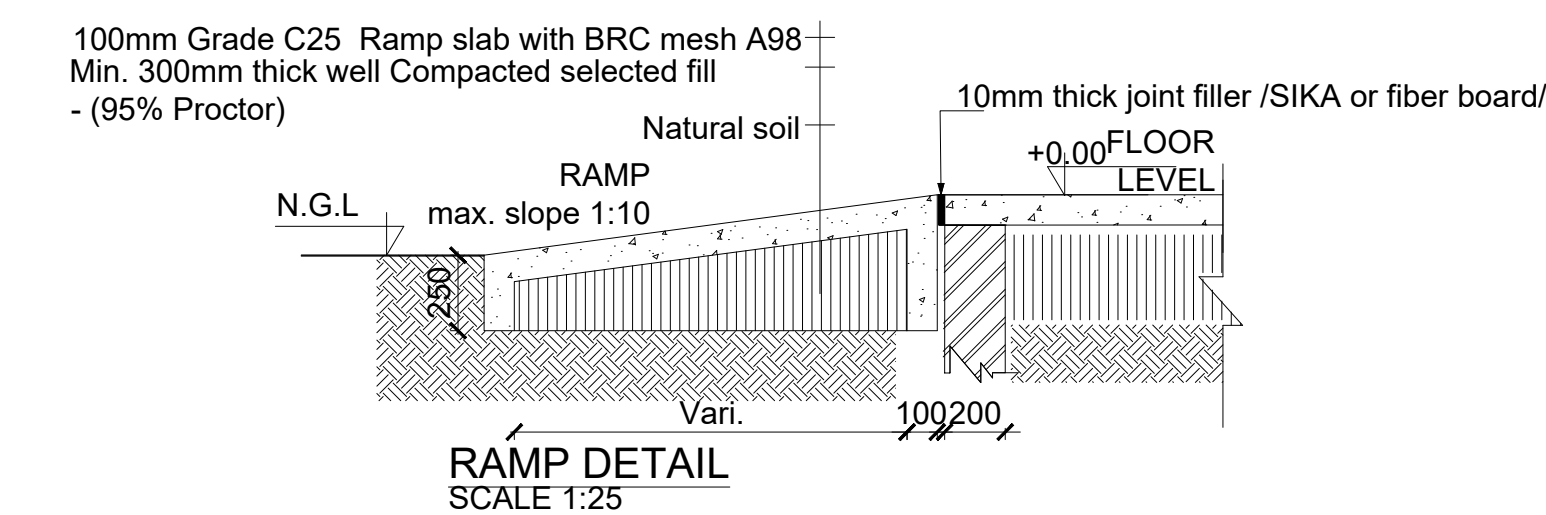
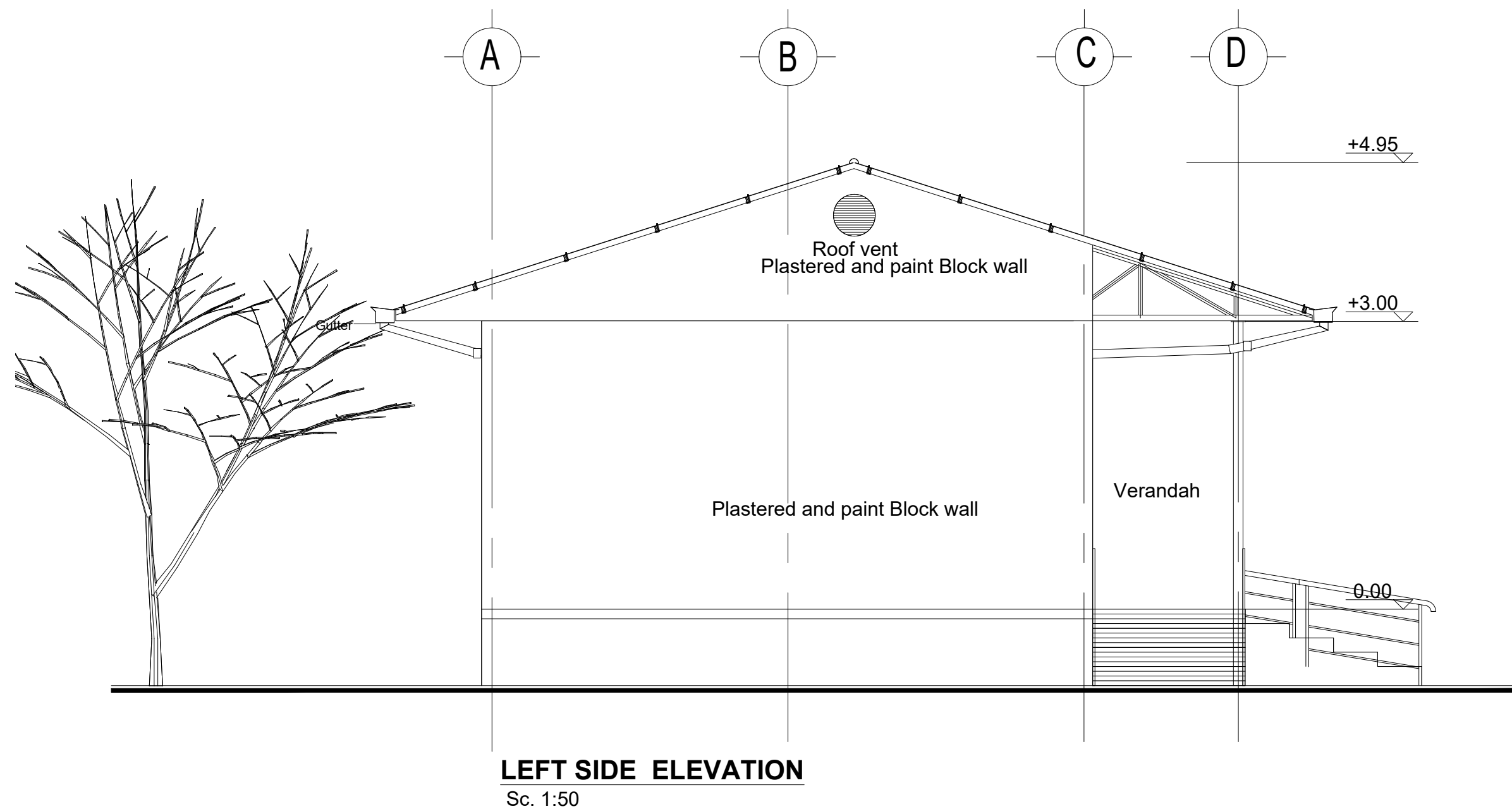
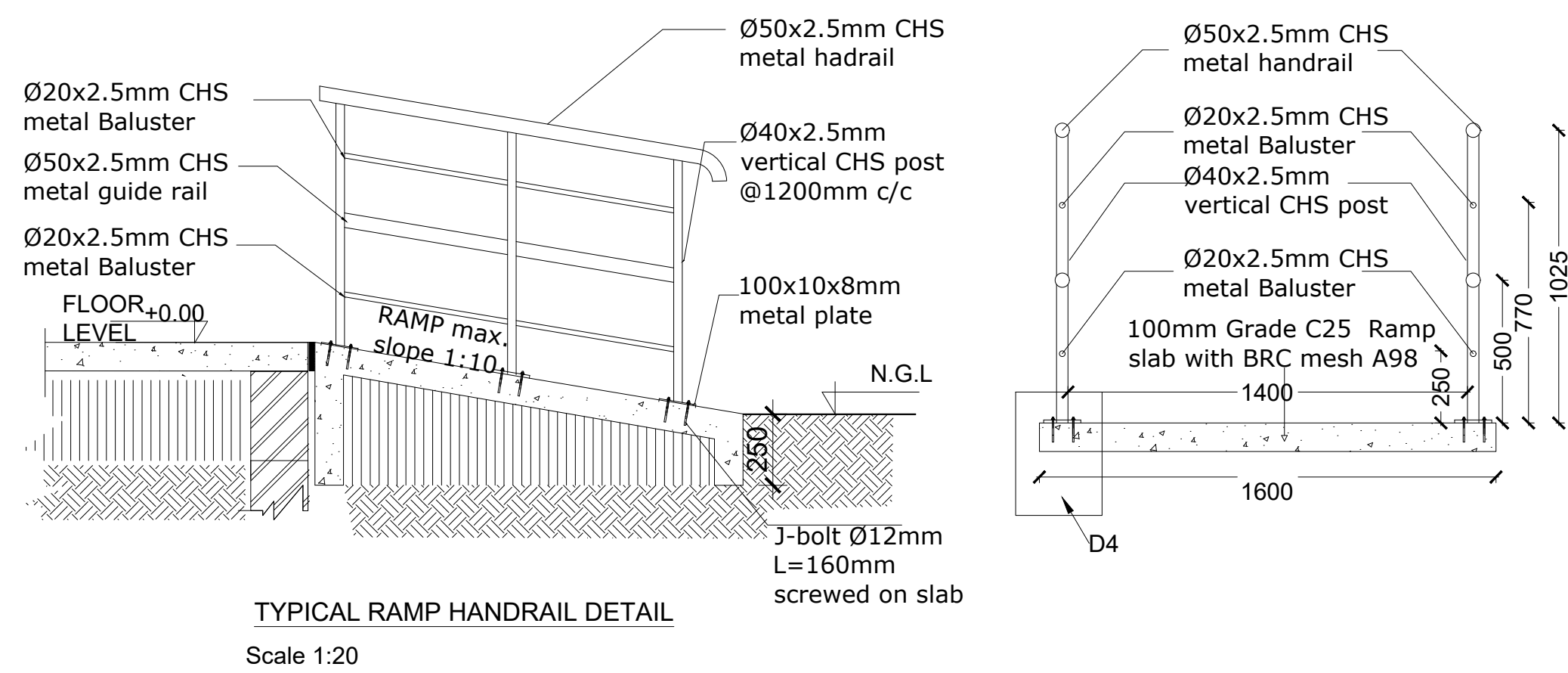
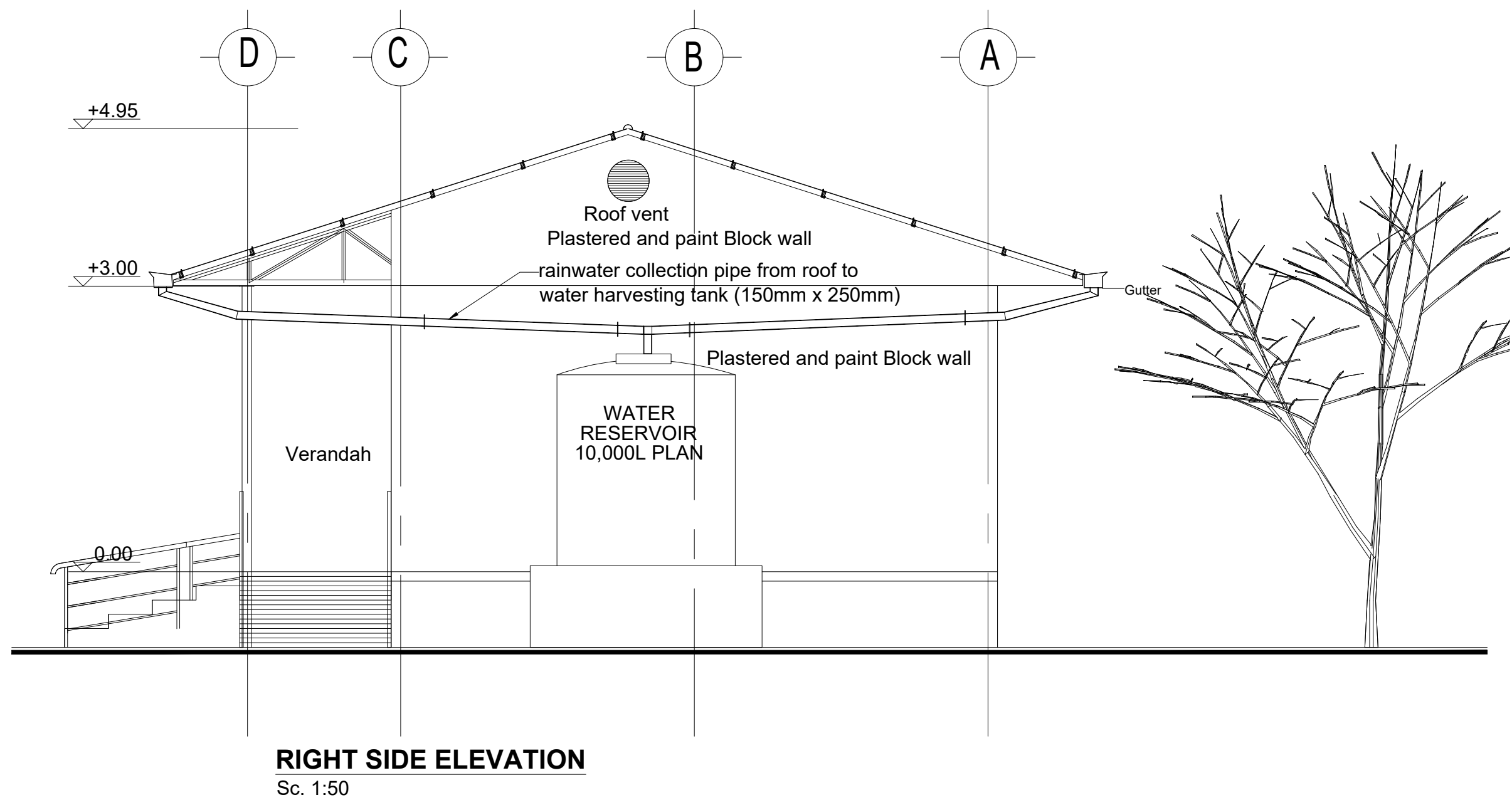
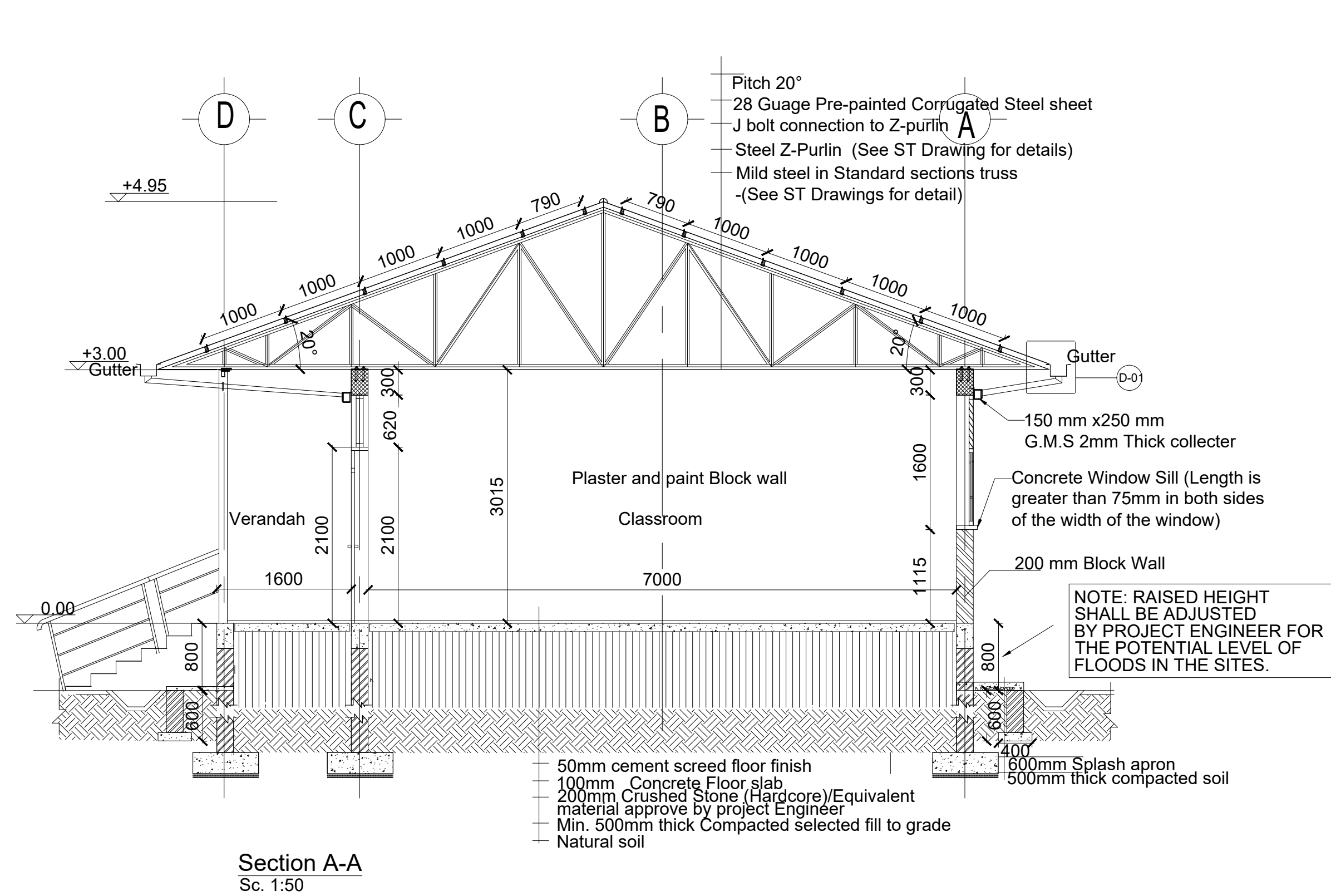
PROPOSED TWO CLASSROOM

Drawing Title

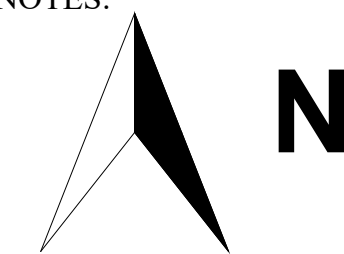
FLOOR PLAN AND ROOF PLAN

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





GENERAL NOTES:

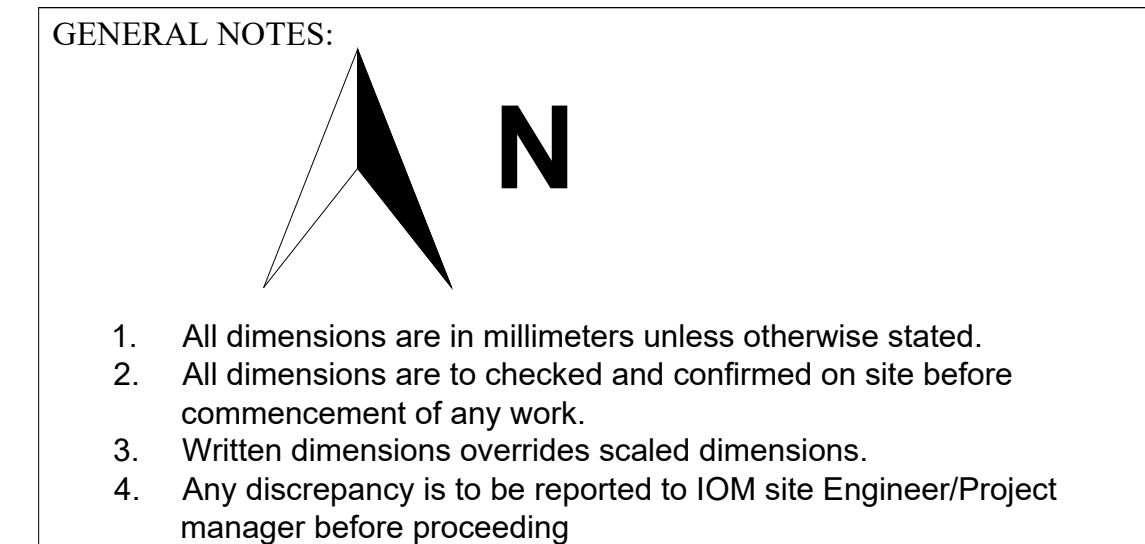


1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

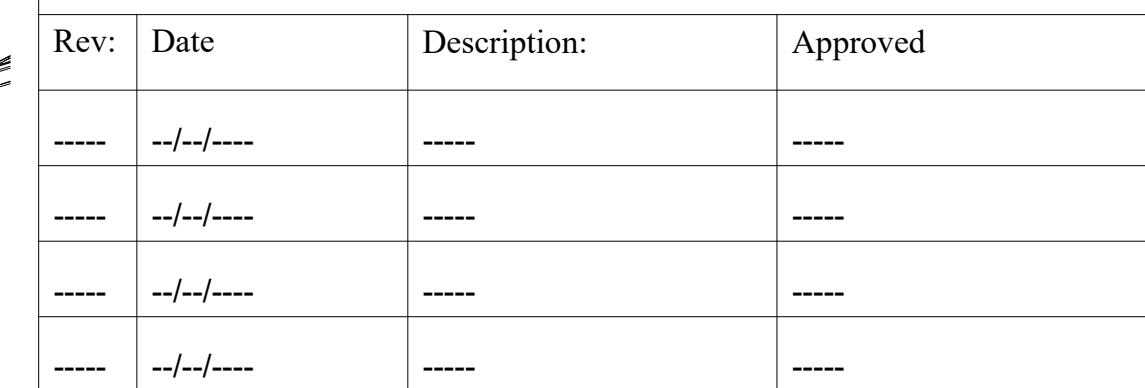
Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

<p>Program</p>	
<p>Client:</p> <p>GOVERNMENT OF SOUTH SUDAN</p>	
<p>Implemented By:</p>	
<p>Project:</p> <p>PROPOSED TWO CLASSROOM</p>	
<p>Drawing Title</p>	
<p>SECTION AND ELEVATIONS</p>	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 3/9	Scale: AS SPECIFIED
Date: 7 January 2024	Rev: 0





Sc. 1:50



Sc. 1:50

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.
<b>Ironmongery</b>	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>Technical drawing of a door assembly showing dimensions and components:</p> <ul style="list-style-type: none"> <li>Overall width: 1100</li> <li>Overall height: 2700</li> <li>Louver height: 600</li> <li>Handle area height: 900</li> <li>Main door panel height: 1200</li> <li>Label: Steel Louver</li> </ul>

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>The drawing shows a square window frame with a width of 1200 and a height of 1600. The frame is composed of vertical and horizontal bars. The vertical bars are labeled with dimensions: +2.70, +2.10, +1.10, and +0.00. The horizontal bars are labeled with dimensions: +2.70, +2.10, +1.10, and +0.00. The central area of the frame is labeled 'Steel Louver'. The drawing is a technical representation of the window frame and louver system.</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

GENERAL NOTES:

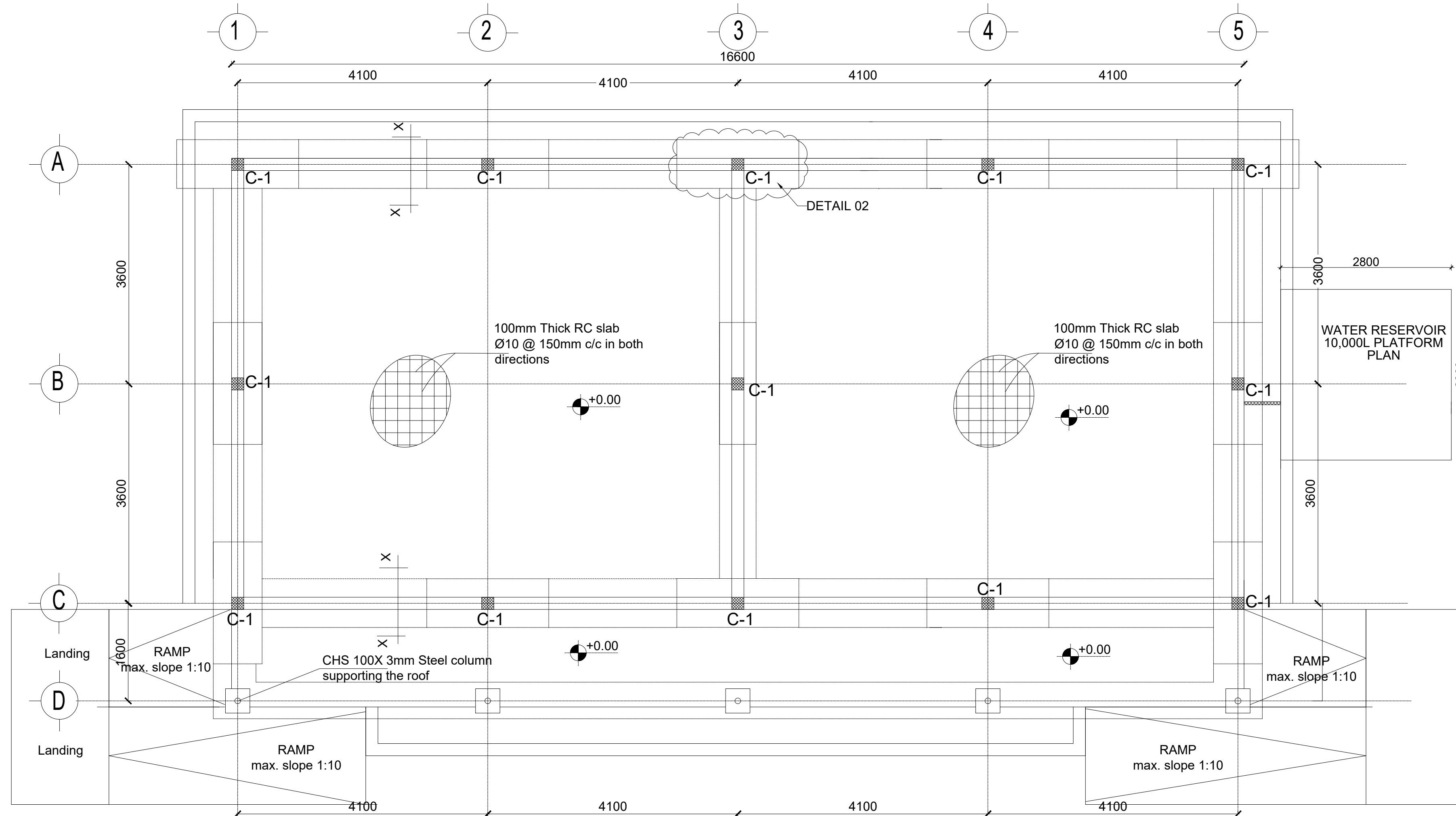


- All dimensions are in millimeters unless otherwise stated.
- All dimensions are to be checked and confirmed on site before commencement of any work.
- Written dimensions overrides scaled dimensions.
- Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

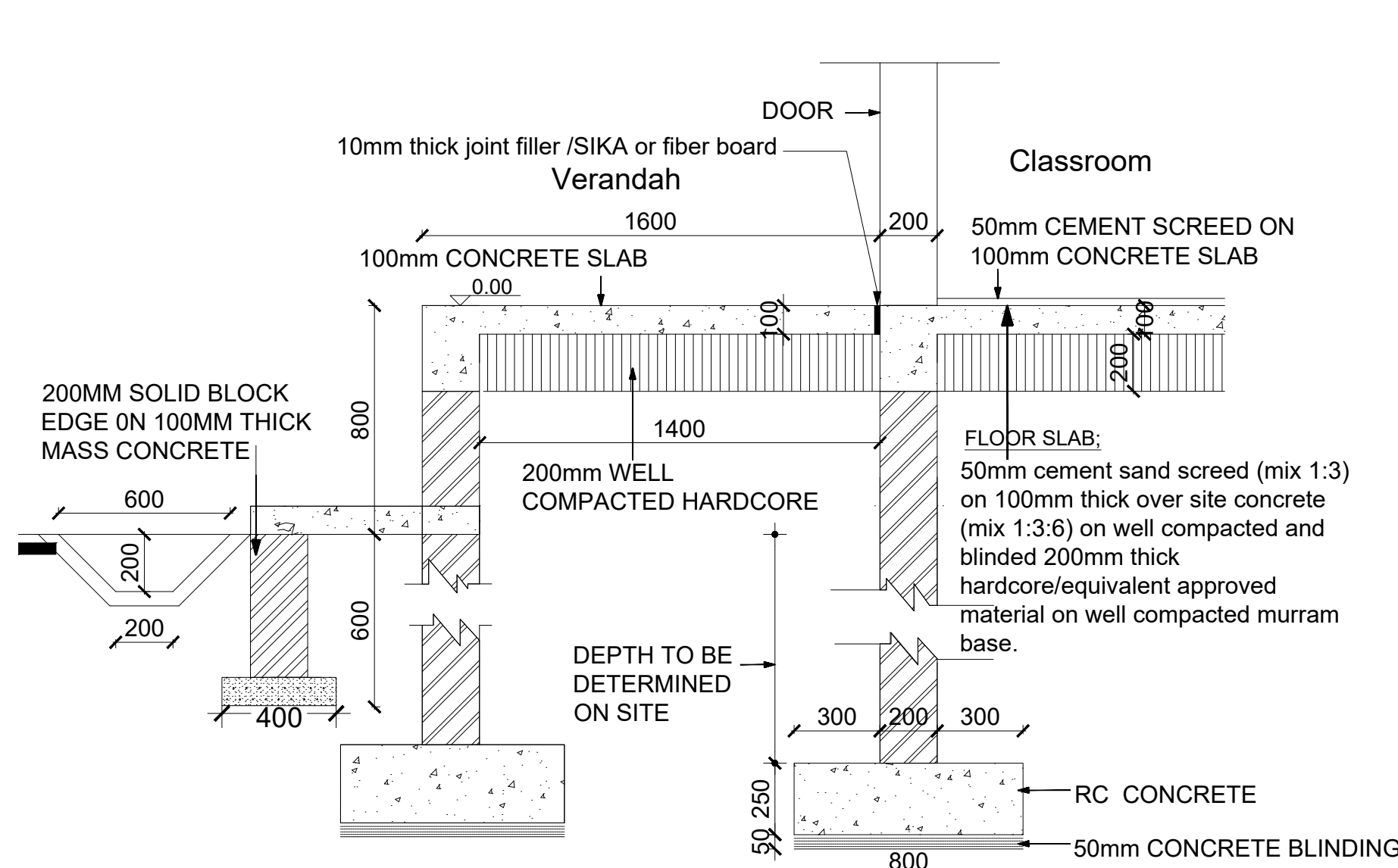
Rev:	Date	Description:	Approved
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----

Program	
<div><div></div><div>Enhancing Community Resilience and Local Governance Project Phase II (ECRP II)</div></div>	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
<div><div></div></div>	
Project:	
PROPOSED TWO CLASSROOM	
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

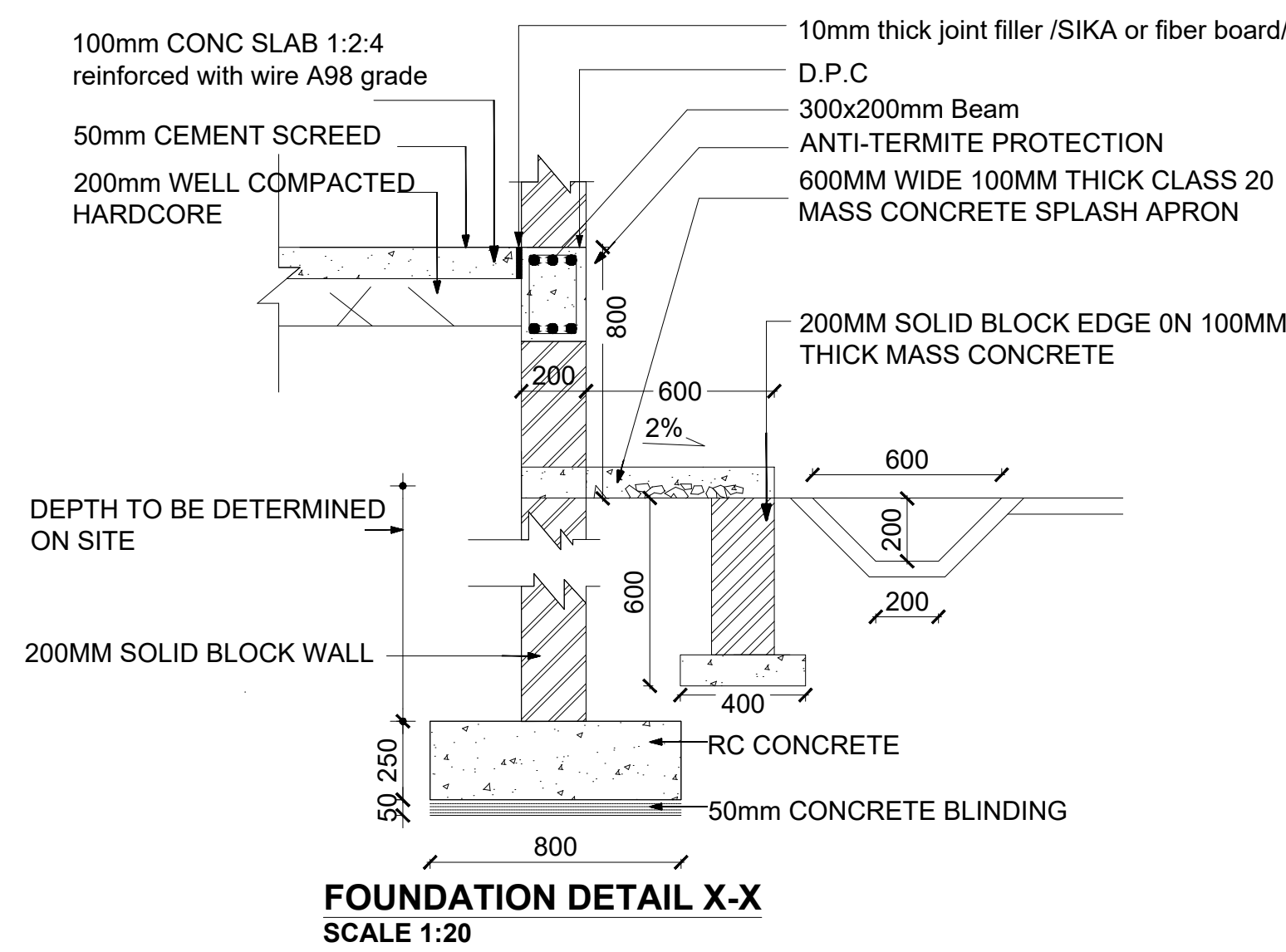




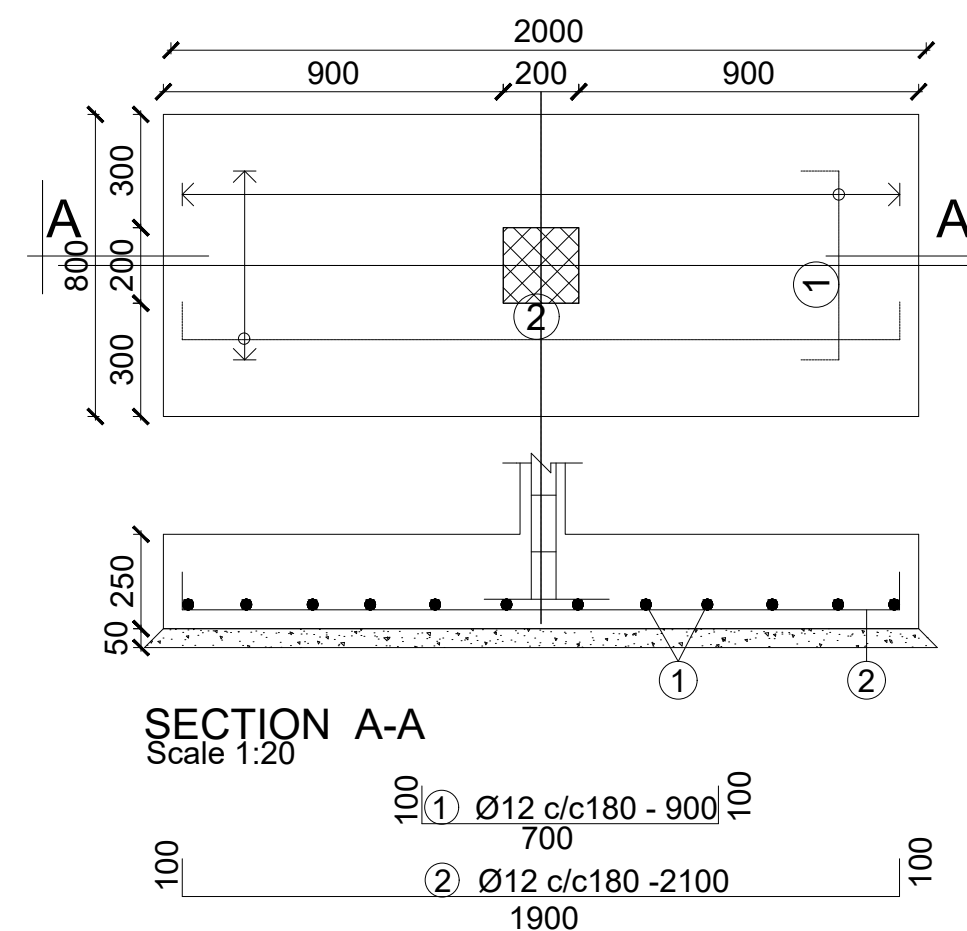
(2 CLASS ROOM BLOCK )  
GROUND FLOOR SLAB REINFORCEMENT , BEAM AND COLUMN LAYOUT  
SCALE 1:50



VERANDAH DETAIL  
SCALE 1:20



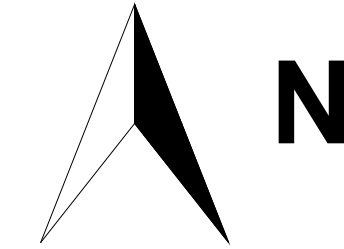
FOUNDATION DETAIL X-X  
SCALE 1:20



SECTION A-A  
Scale 1:20

FOUNDATION DETAIL - DETAIL 2  
SCALE 1:20

GENERAL NOTES:

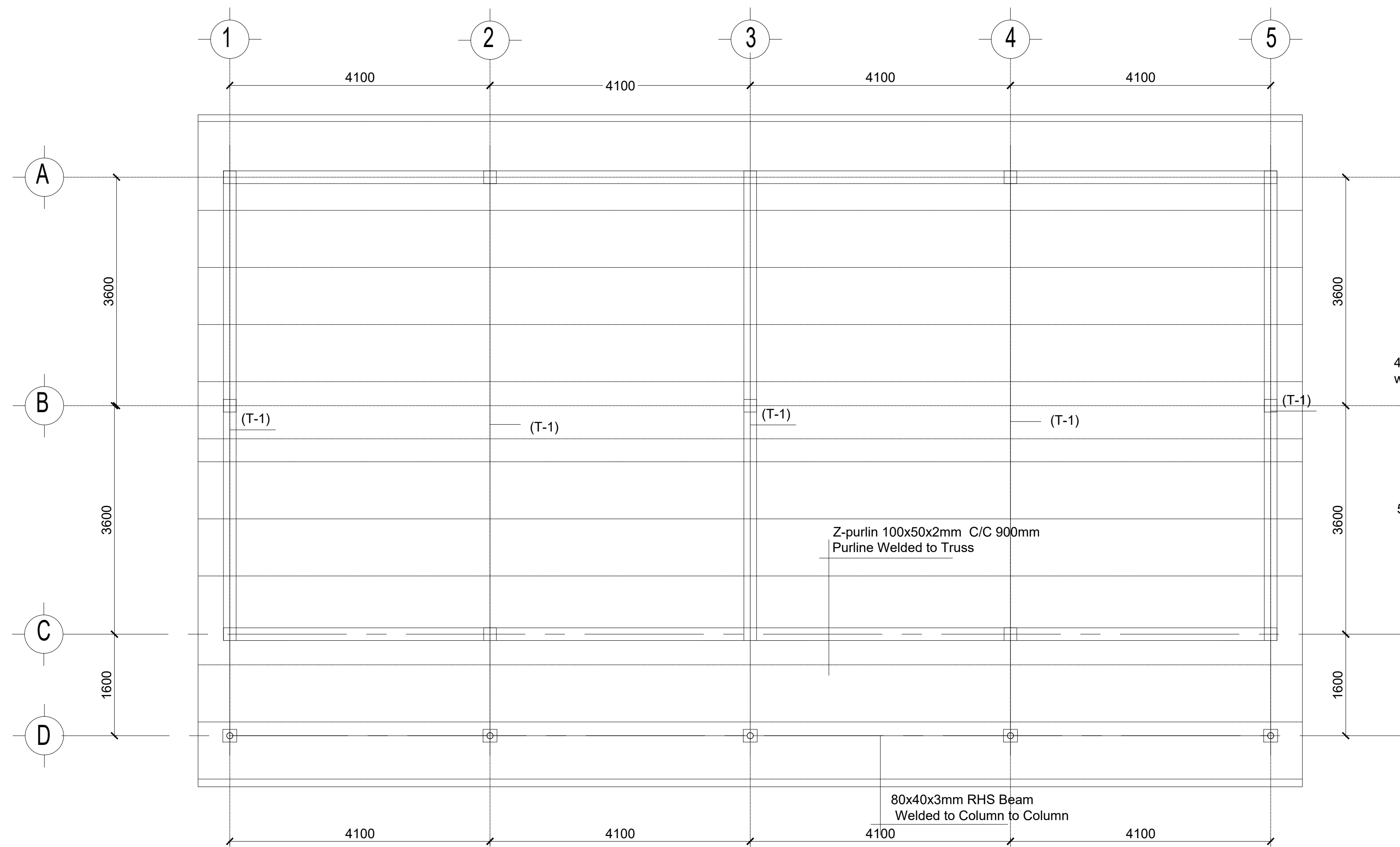


1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

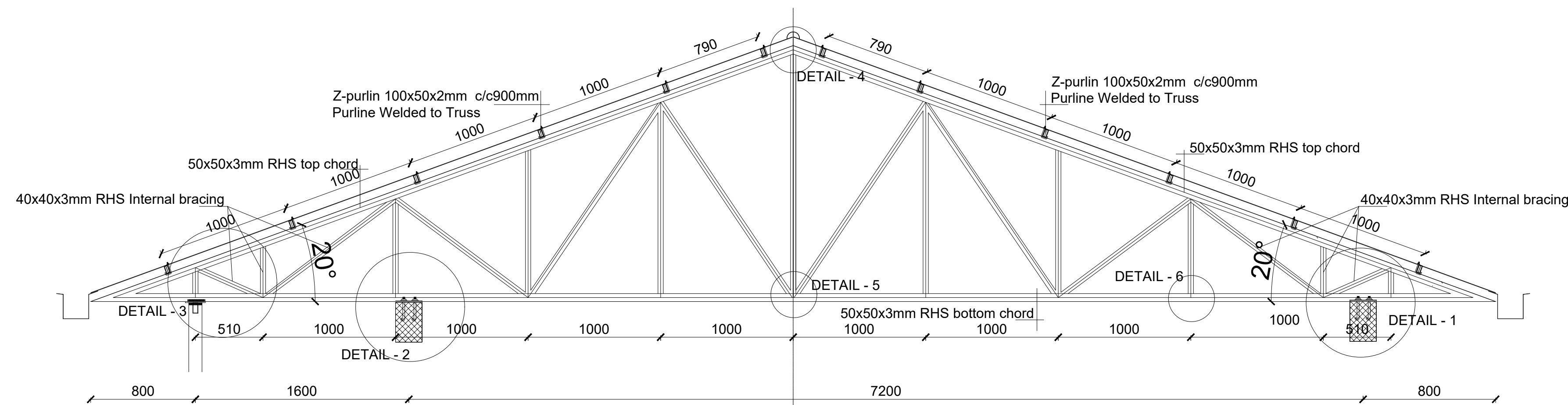
Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

Program	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
Project:	
PROPOSED TWO CLASSROOM	
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: 7 January 2024	Rev: 0

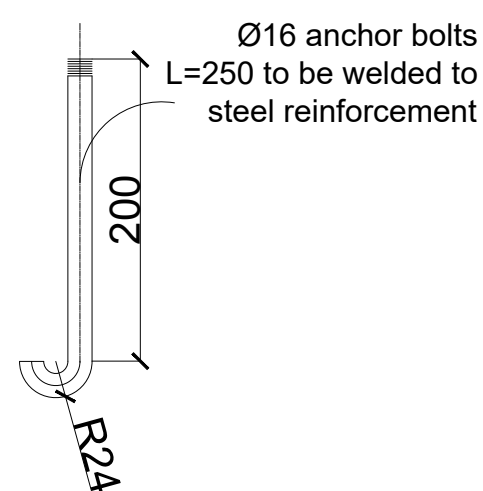




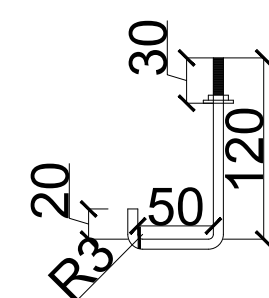
(2 CLASS ROOM BLOCK )  
ROOF BEAM AND TRUSS LAYOUT  
SCALE 1:50



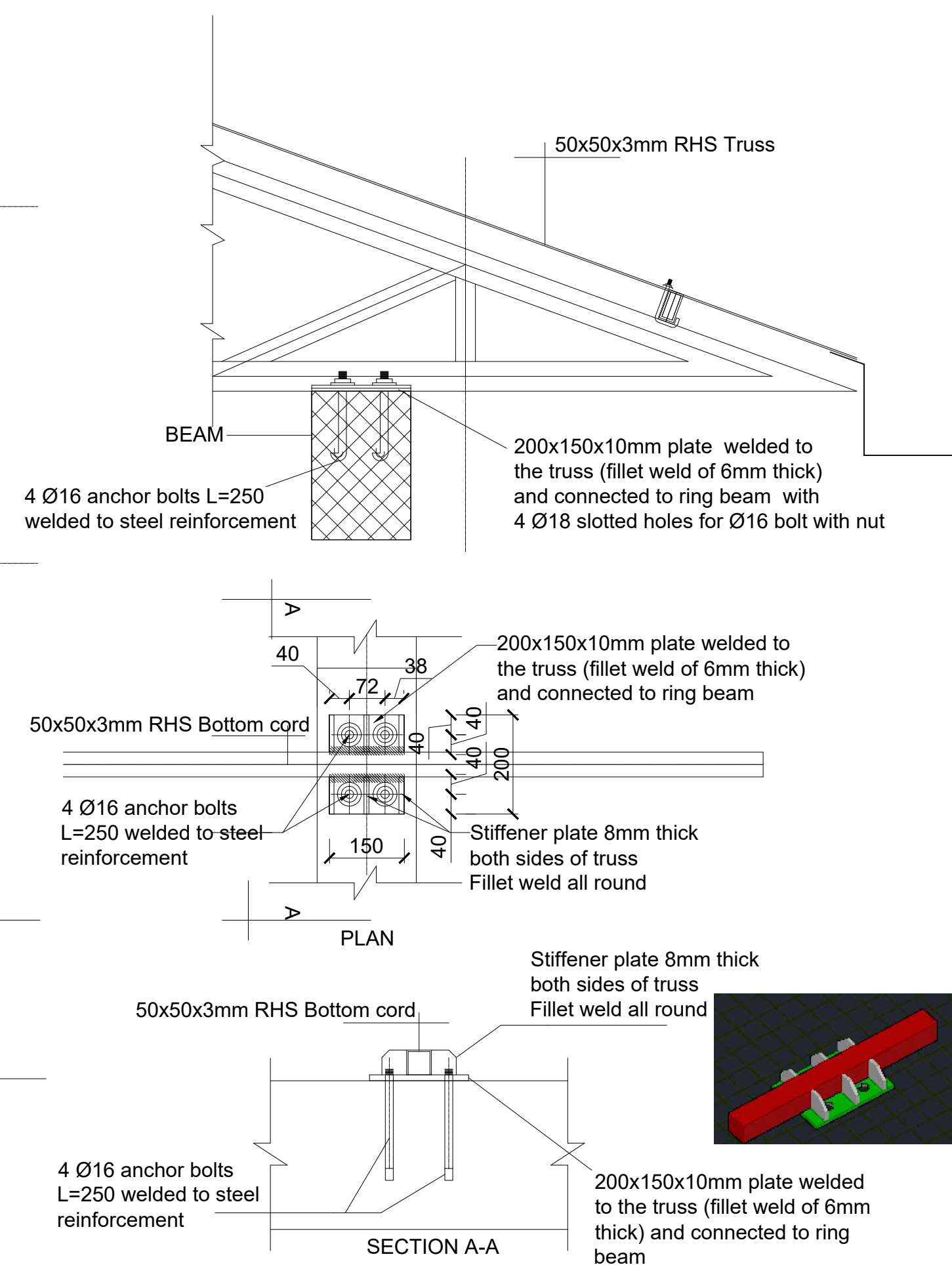
TRUSS T-1 DETAIL  
SC:1.25



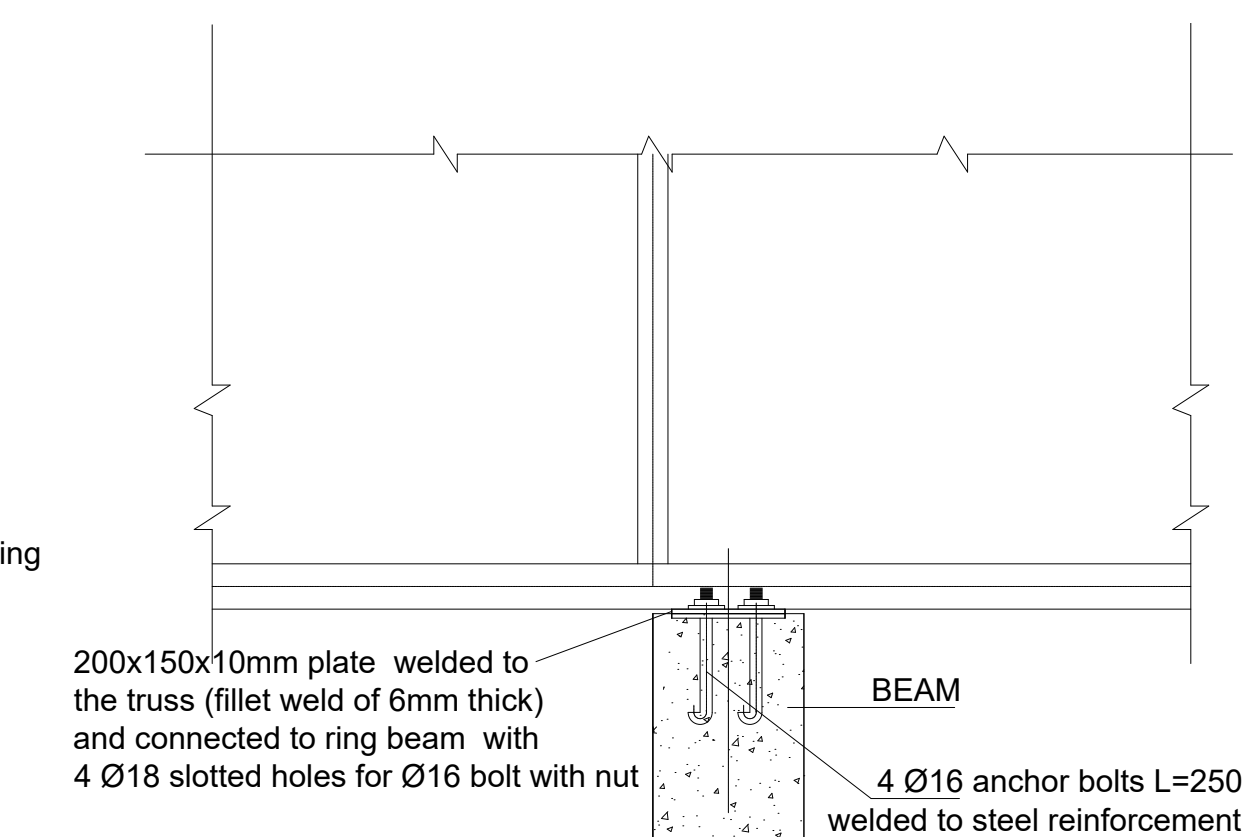
Beam to Truss J bolt Details  
SCALE 1:5



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

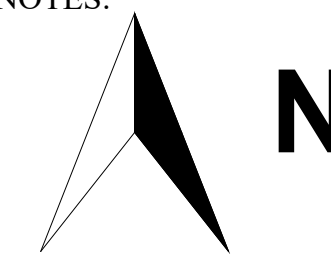


DETAIL - 1  
SCALE 1:10



DETAIL - 2  
SCALE 1:10

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

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



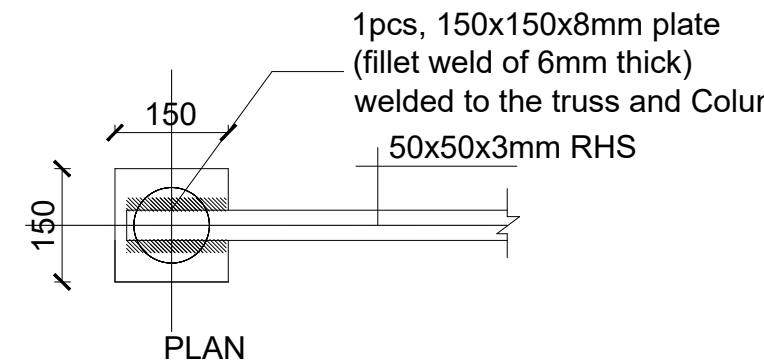
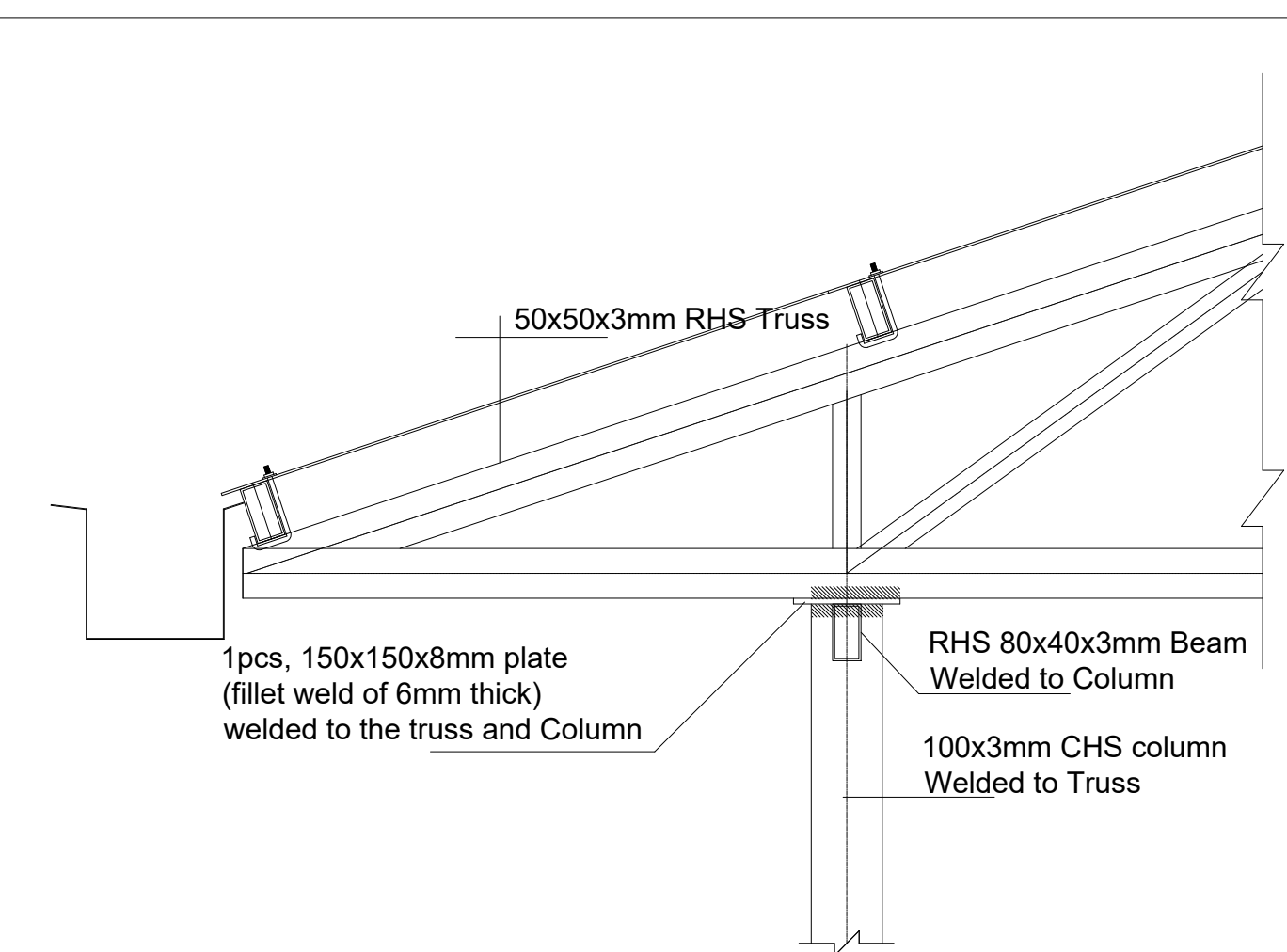
Project:

PROPOSED TWO CLASSROOM

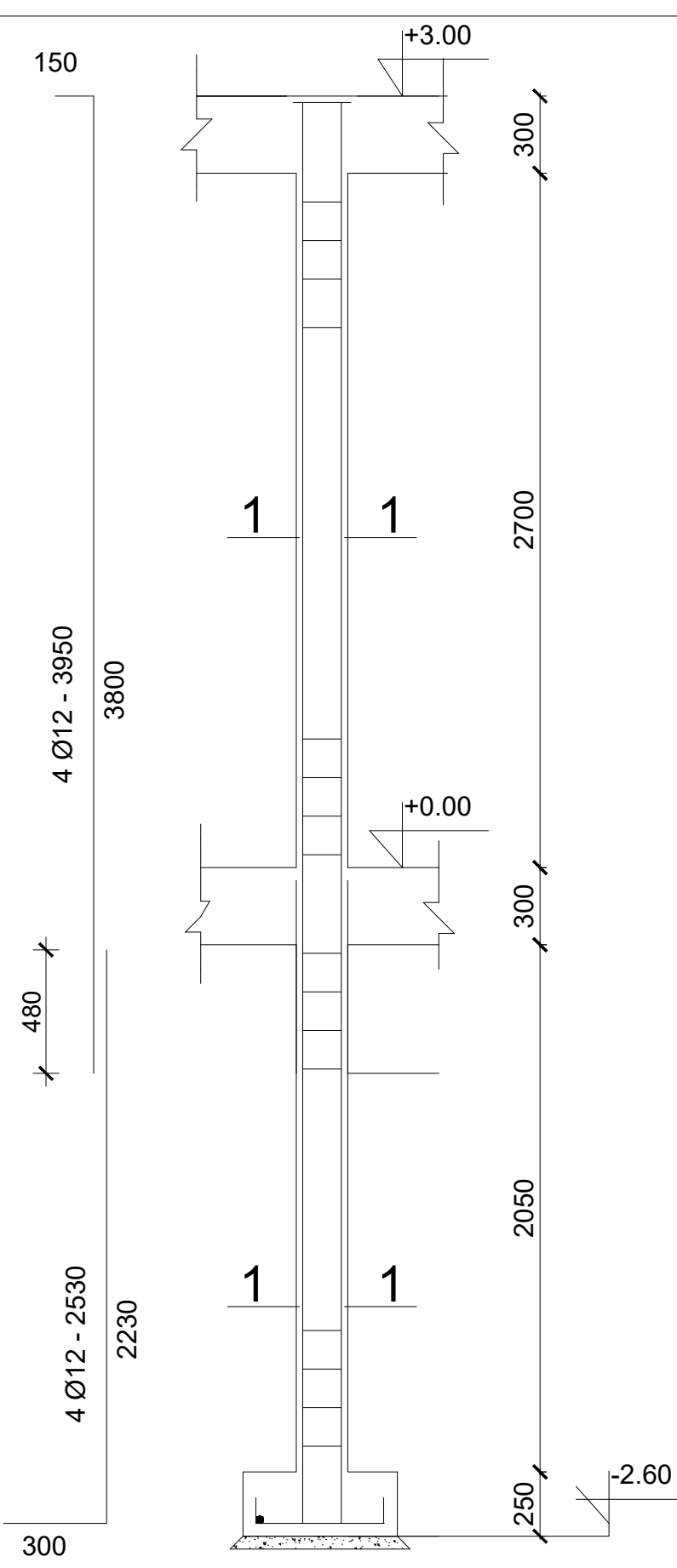
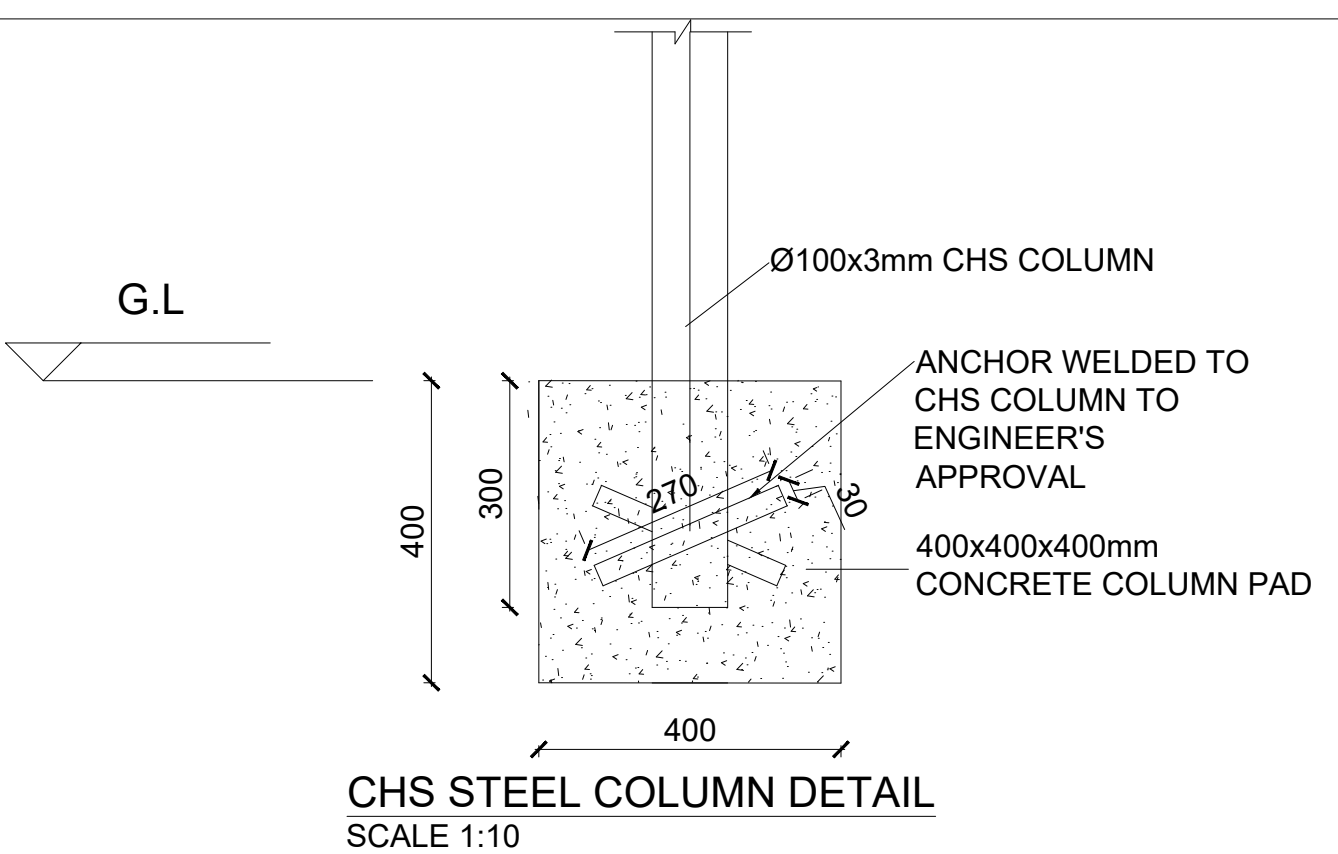
Drawing Title

TRUSS LAYOUT AND DETAILS

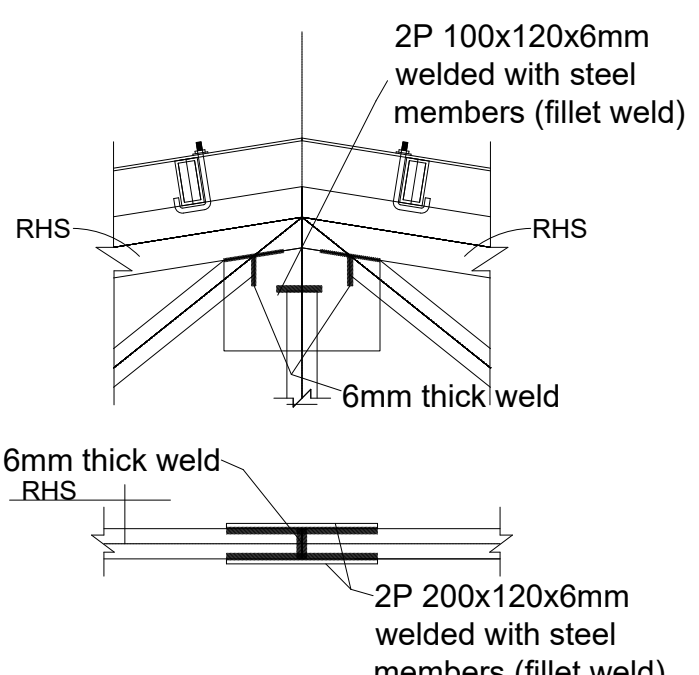
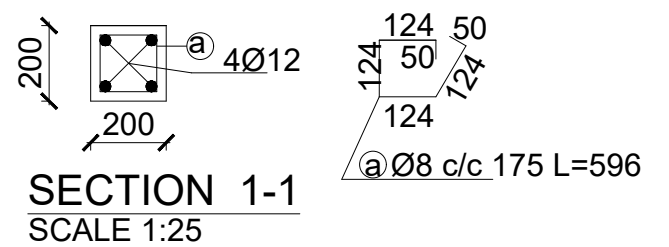
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 7/9	Scale: AS SPECIFIED
Date: 7 January 2024	Rev: 0



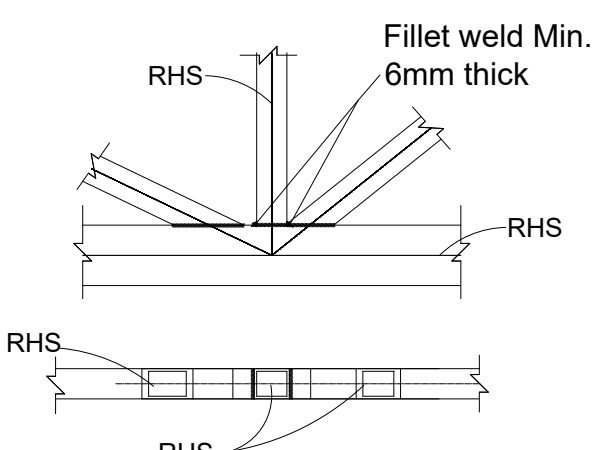
DETAIL - 3  
SCALE 1:10



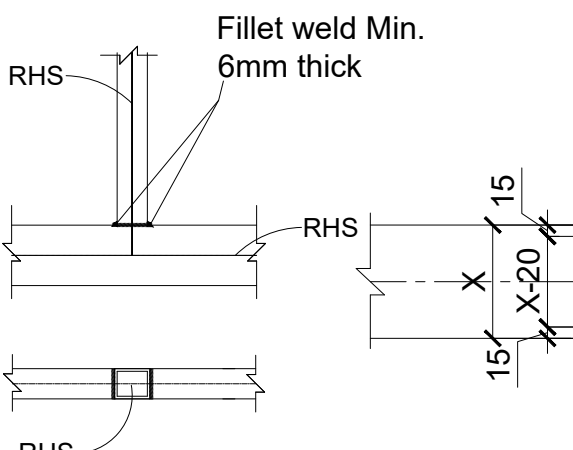
COLUMN C-1  
SCALE 1:25



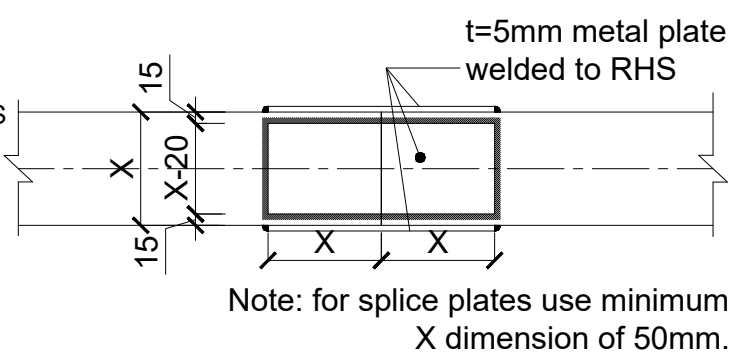
DETAIL - 4  
SCALE 1:10



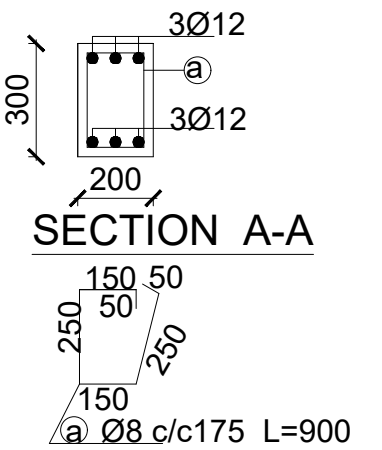
DETAIL - 5  
SCALE 1:10



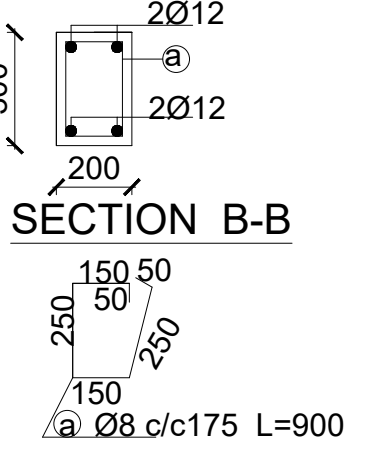
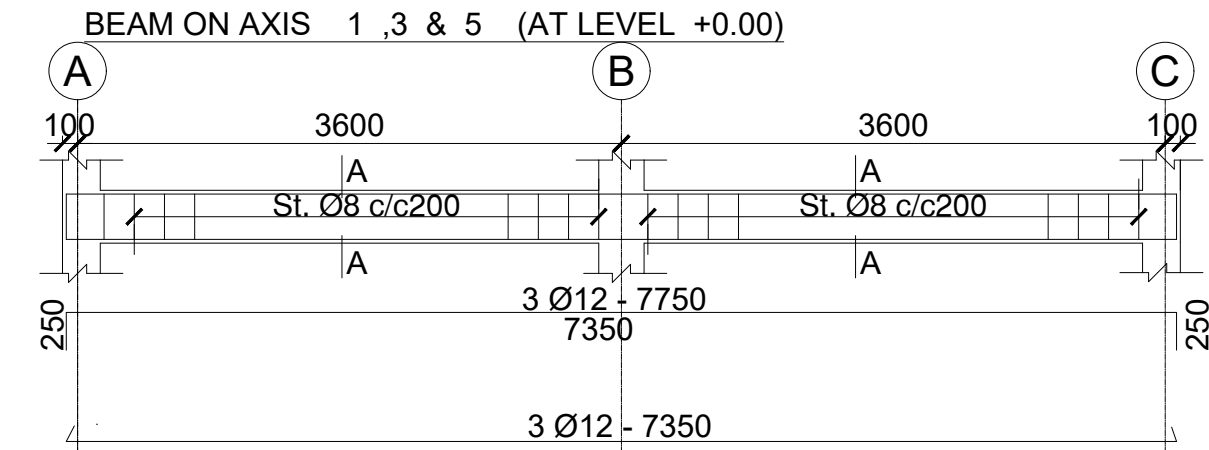
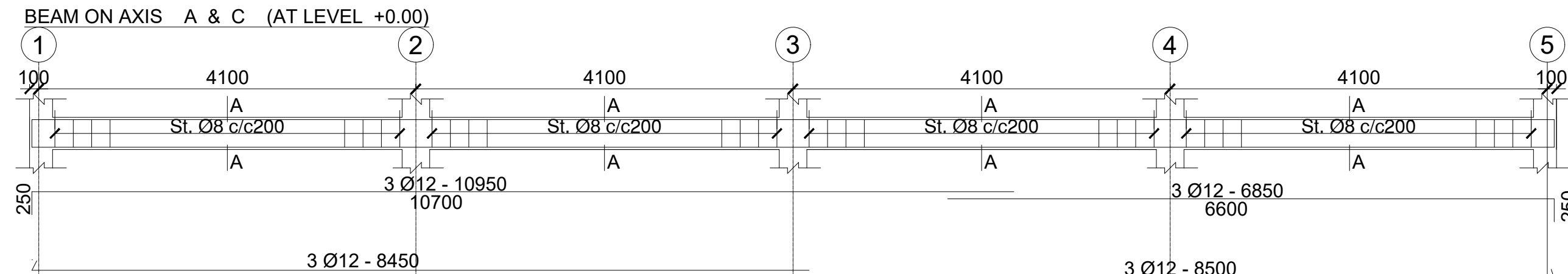
DETAIL - 6  
SCALE 1:10



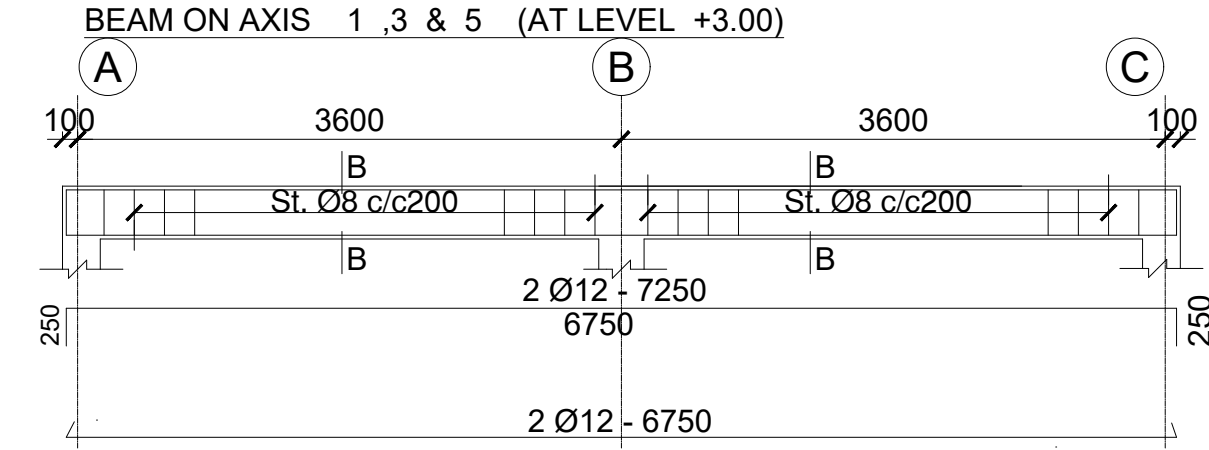
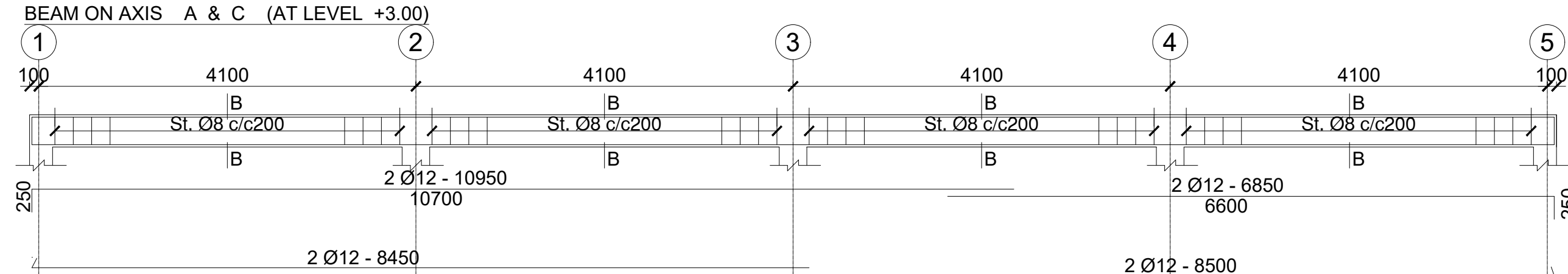
SPlice DETAILS  
SCALE 1:10



SECTION A-A  
SCALE 1:10



SECTION B-B  
SCALE 1:10



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

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

Program

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

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM UN MIGRATION

Project:

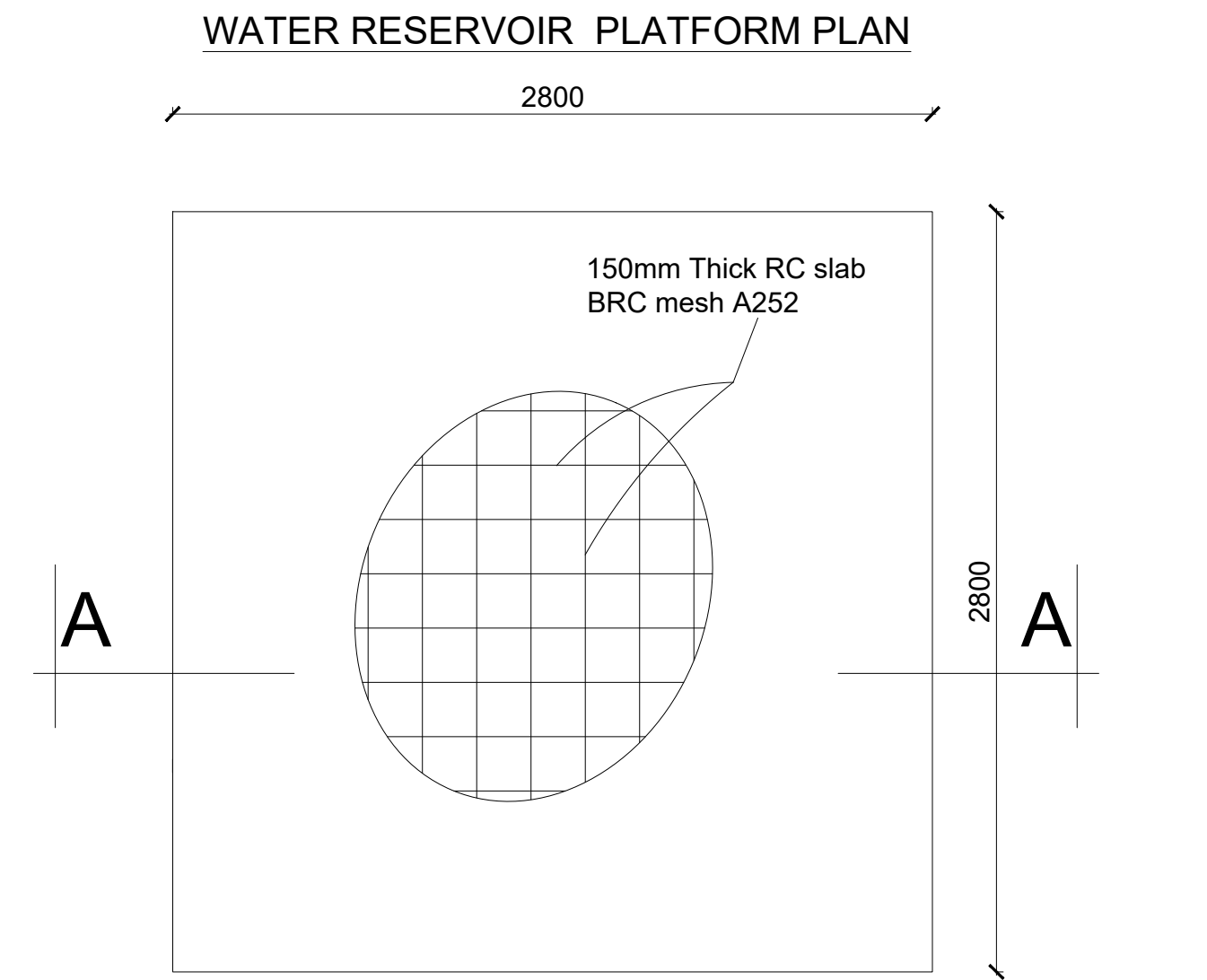
PROPOSED TWO CLASSROOM

Drawing Title

TRUSS, BEAM AND COLUMN DETAILS

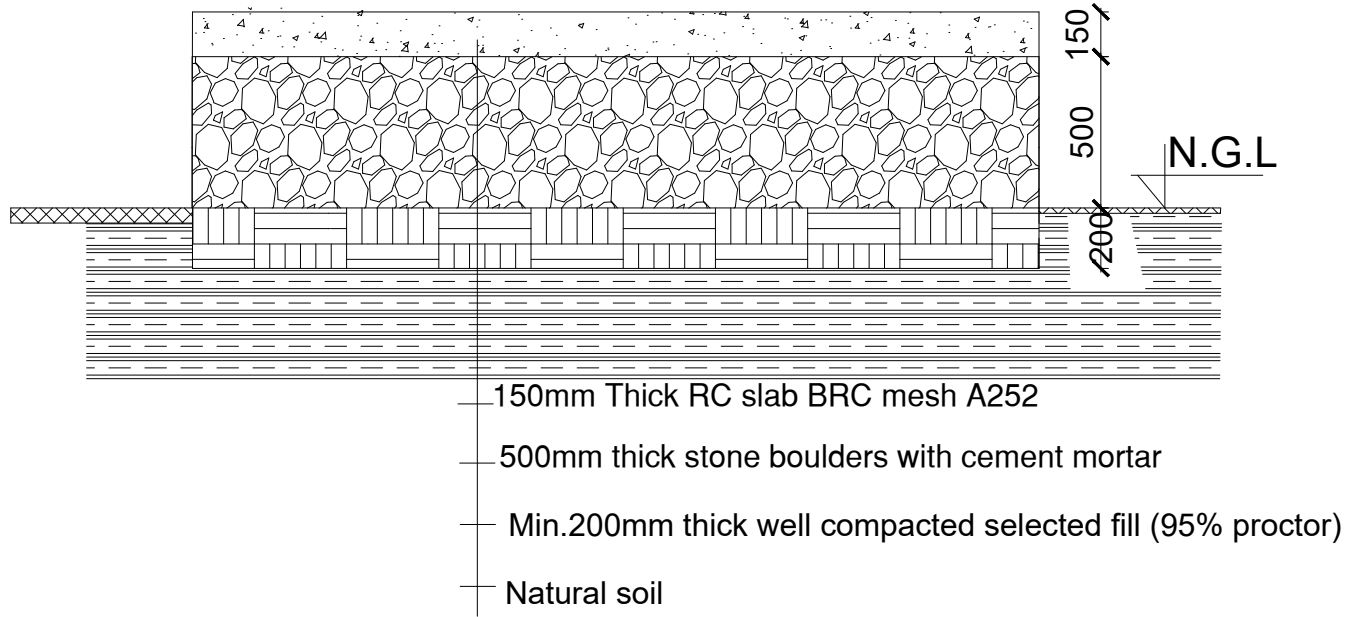
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 8/9	Scale: AS SPECIFIED
Date: 7 January 2024	Rev: 0





PLAN

SCALE 1:25



SECTION A-A



SCALE 1:25

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

Rev:	Date	Description:	Approved
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----

Program	
<div><div></div><div>Enhancing Community Resilience and Local Governance Project Phase II (ECRP II)</div></div>	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
<div><div></div></div>	
Project:	
PROPOSED TWO CLASSROOM	
Drawing Tittle	
TRUSS, BEAM AND COLUMN DETAILS	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 9/9	Scale: AS SPECIFIED
Date: 7 January 2024	Rev: 0