

# 4 CLASSROOM BLOCK (Black Cotton Soil)

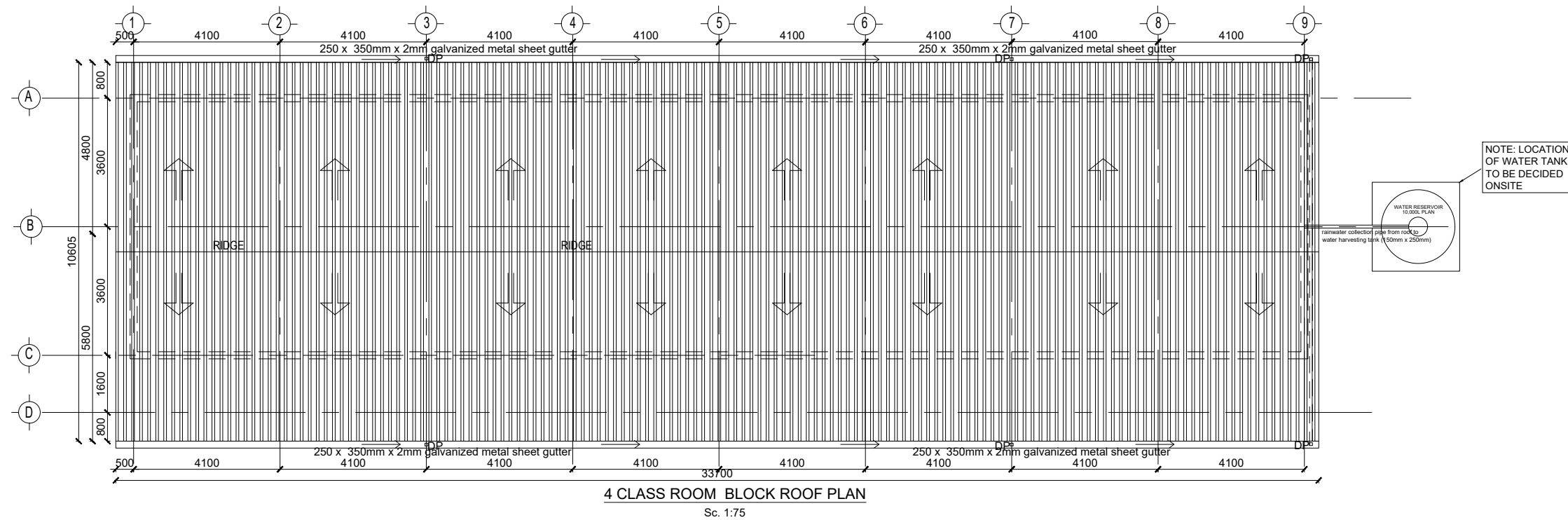
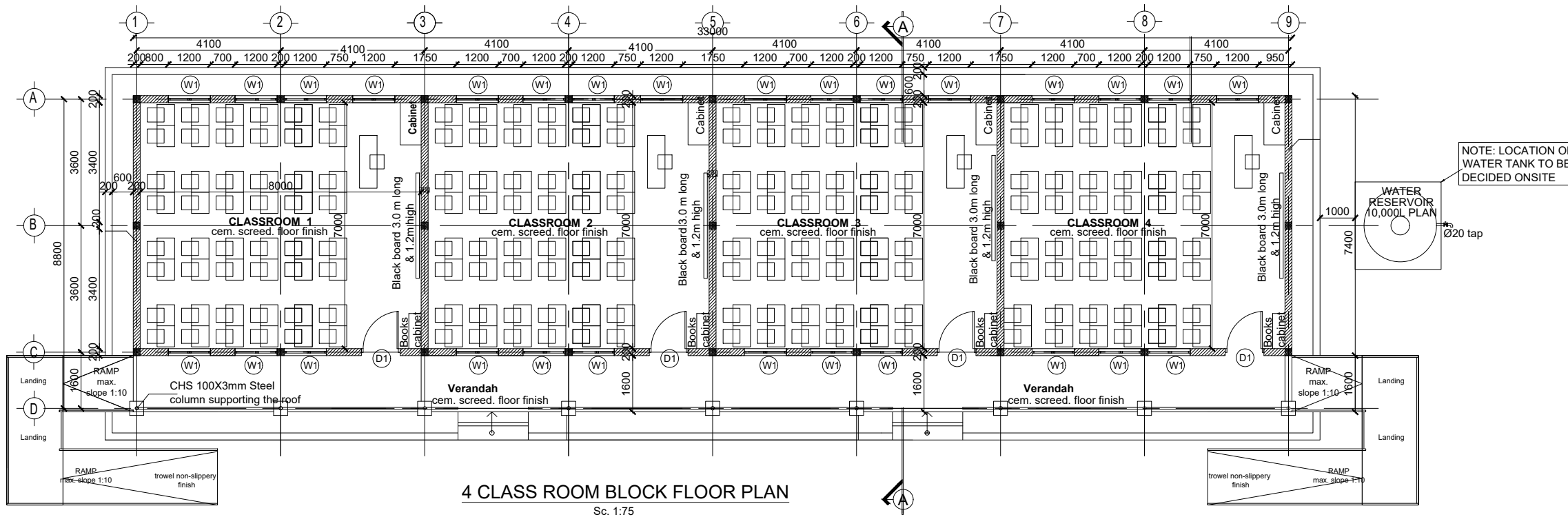
GENERAL NOTES:



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3. Written dimensions override scaled dimensions.
4. Depth of pad foundation 1200mm.
5. Depth of strip foundation 750mm.
6. Any discrepancy or changes is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
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Program	
 <b>Enhancing Community Resilience and Local Governance Project</b>	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
Project:	
PROPOSED FOUR CLASSROOMS BLOCK	
Drawing Title	
COVER PAGE	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 1/12	Scale: AS SPECIFIED
Date: 25 June 2024	Rev: 2



Rev:	Date	Description:	Approved
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Program

Client:

**GOVERNMENT OF SOUTH SUDAN**

Implemented By:

Project:

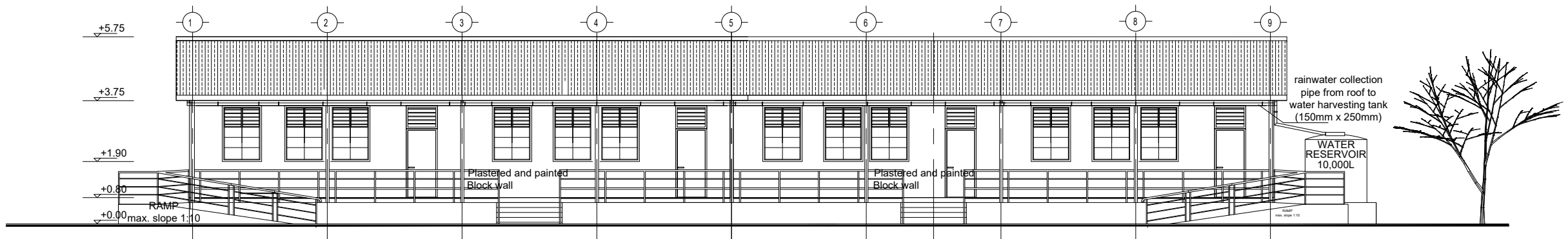
**PROPOSED FOUR CLASSROOMS BLOCK**

Drawing Title

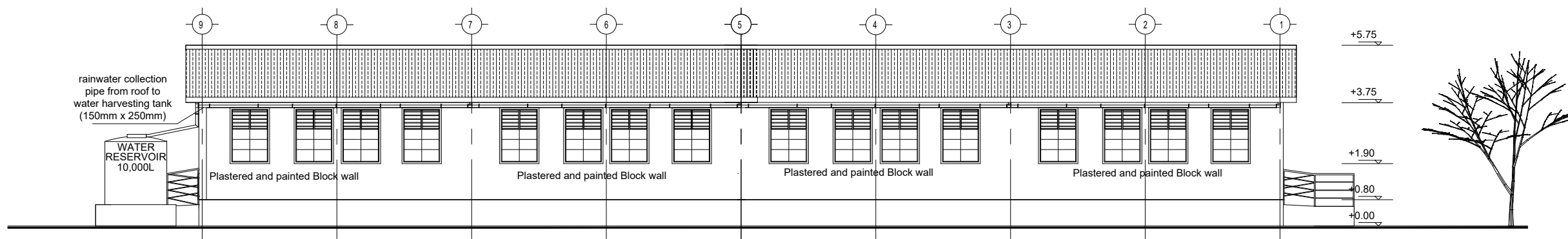
**FLOOR PLAN AND ROOF PLAN**

Designed By: H.A	Drawn by: H.A
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Sheet #: 2/12	Scale: AS SPECIFIED
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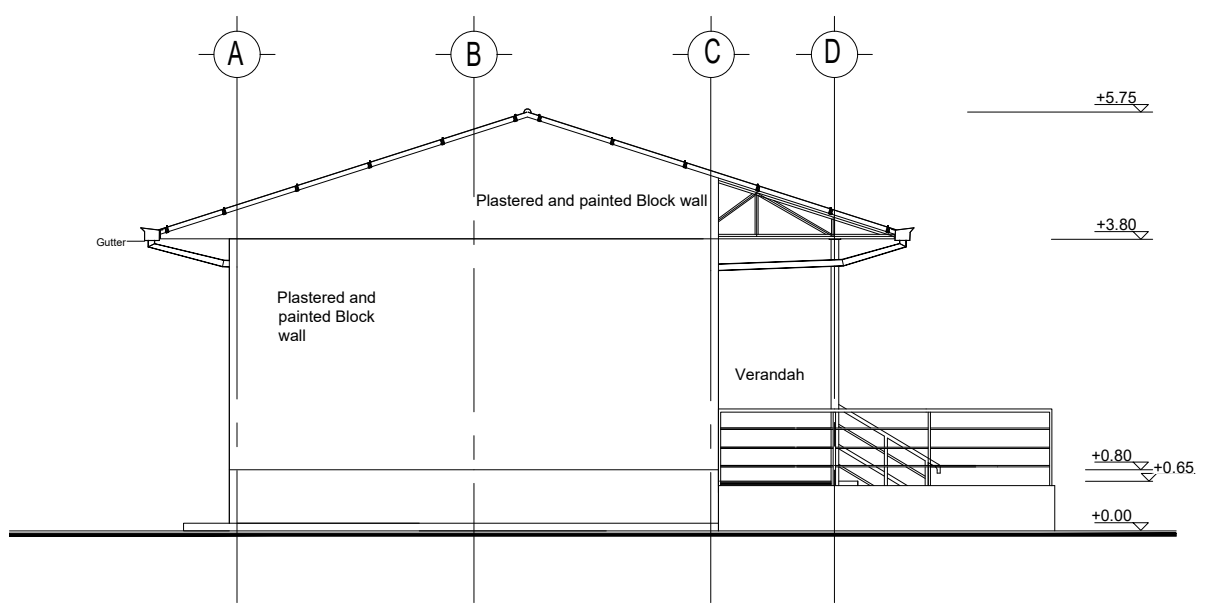
Min.200mm thick well compacted select



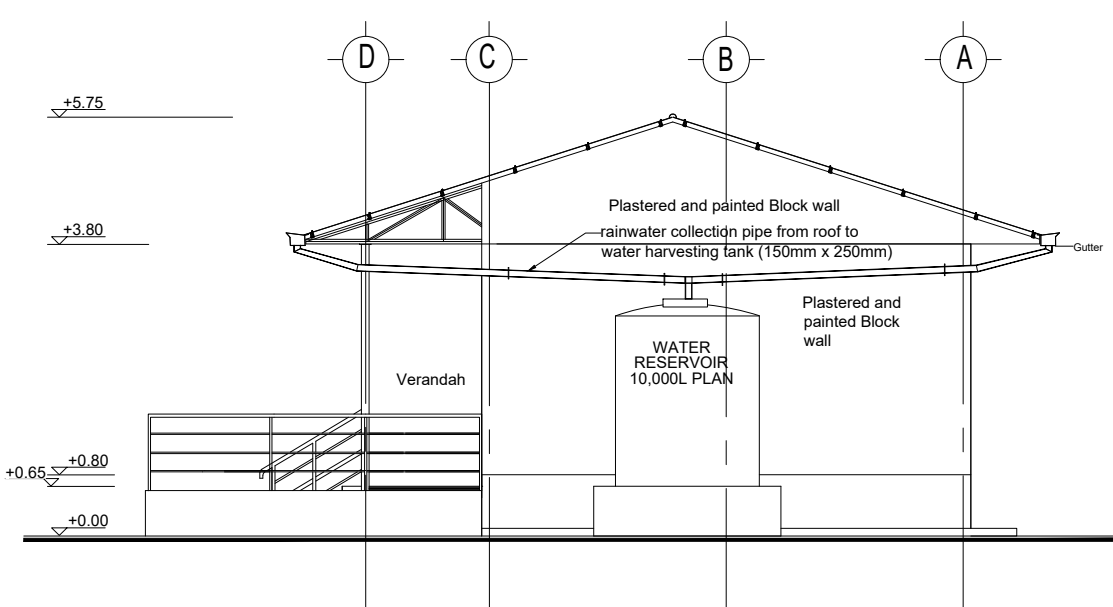
**FRONT ELEVATION**  
Sc. 1:50



**REAR ELEVATION**  
Sc. 1:75



**LEFT SIDE ELEVATION**  
Sc. 1:50



**RIGHT SIDE ELEVATION**  
Sc. 1:50

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Program

Enhancing Community Resilience and Local Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM  
UN MIGRATION

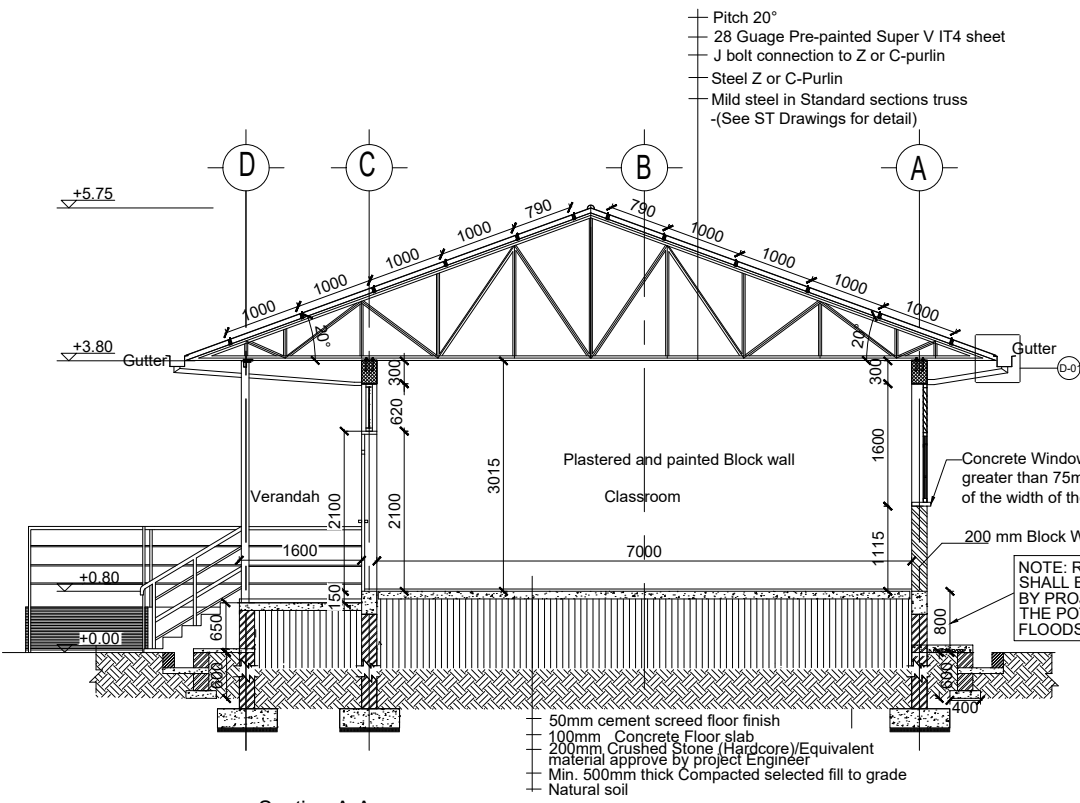
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PROPOSED FOUR CLASSROOMS BLOCK

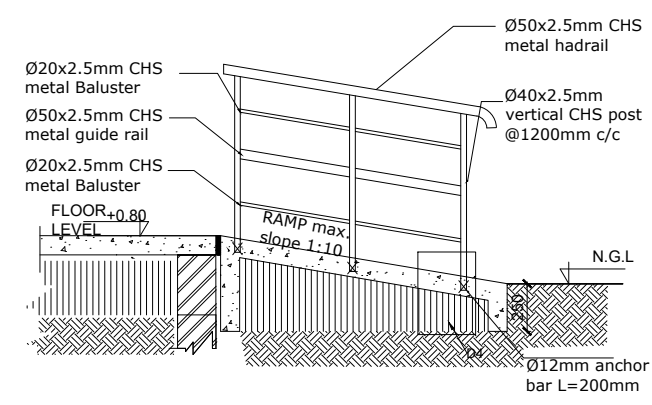
Drawing Title

ELEVATIONS

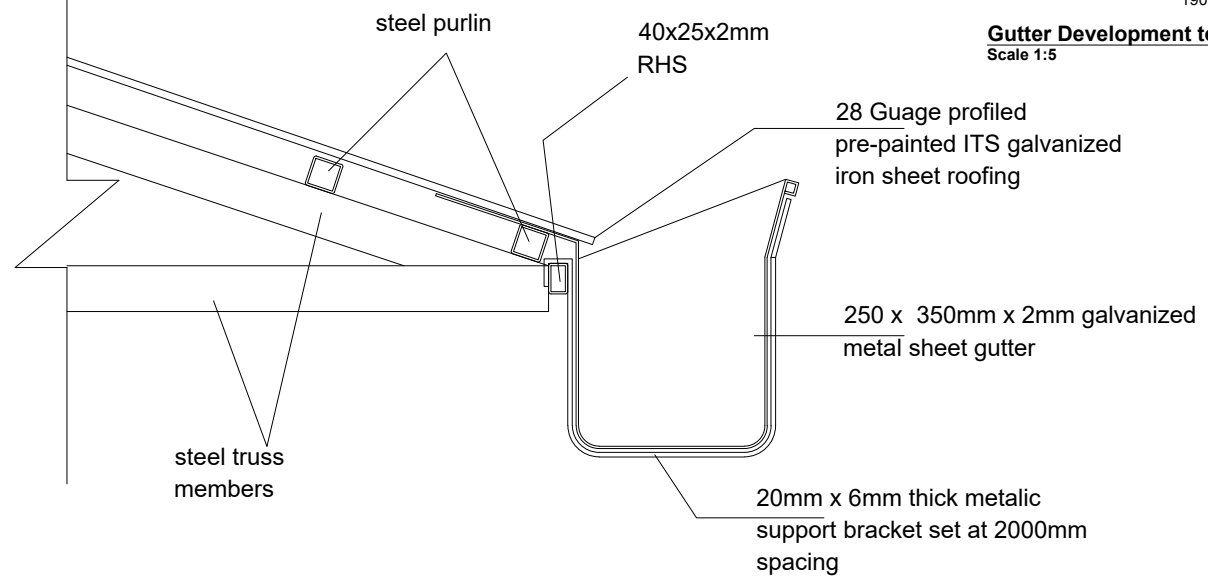
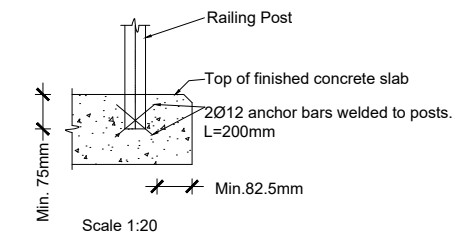
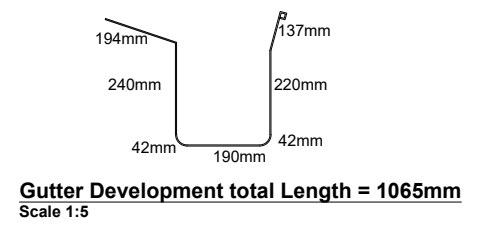
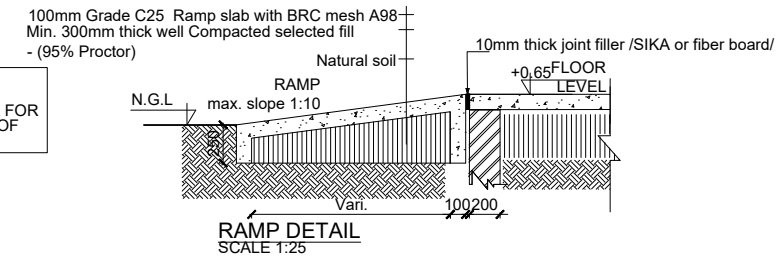
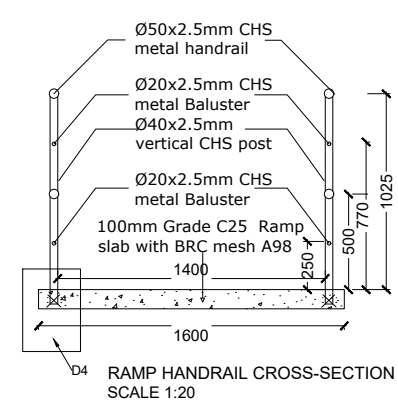
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Date: 25 June 2024	Rev: 0



Section A-A  
 Sc. 1:50

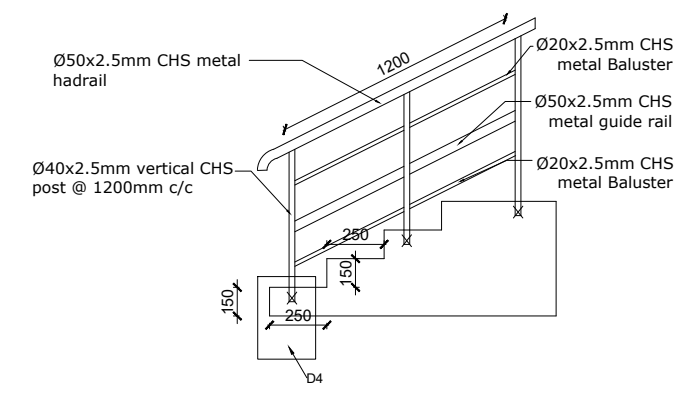
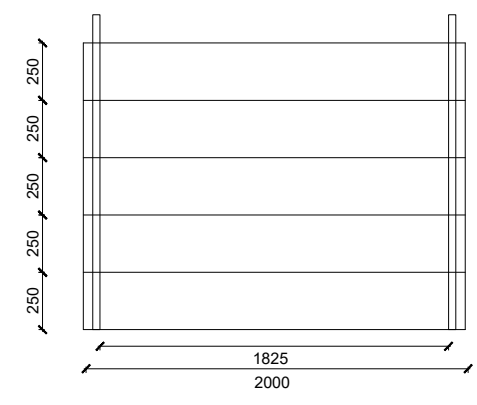
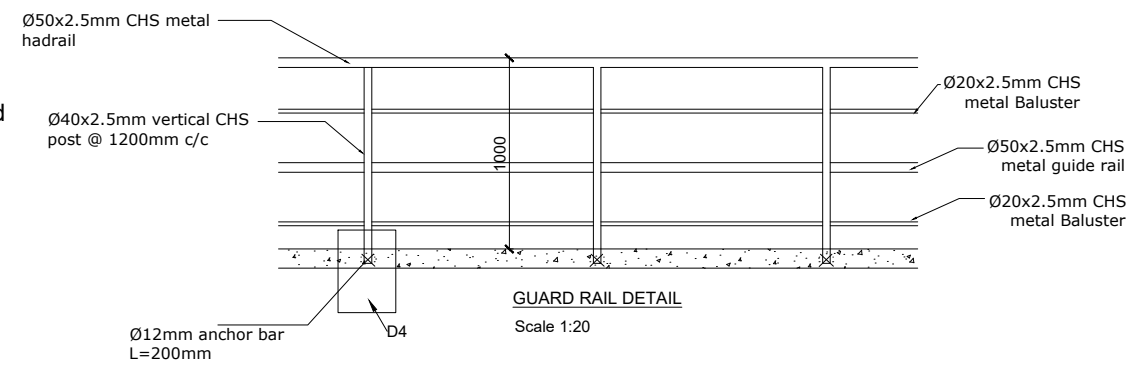


TYPICAL RAMP HANDRAIL DETAIL  
 SCALE 1:20



Detail 01: Overhung Gutter Detail

Scale 1:5



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Program

Enhancing Community Resilience and Local Governance Project

Client:  
 GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM  
 UN MIGRATION

Project:  
 PROPOSED FOUR CLASSROOMS BLOCK

Drawing Title  
 SECTION, RAMP AND STAIR DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
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Date: 25 June 2024	Rev: 2

**STRUCTURAL NOTES:**

- I) Building shall be founded on load bearing stone masonry wall having a depth of 750mm and pad foundation having depth of 1200mm 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/m<sup>2</sup>.
- 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, mix ratio 1:1.5:3) for columns and beams;

C-20 (Cube characteristics strength of 20 MPa, mix ratio 1:2:4 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: 25mm
- All foundation (below the ground level): 50mm

❖ Protection of steel work

- Surface preparation by blast cleaning, pickling process or where approved by wire brushing
- Application of one coat of an approved pre-fabrication primer e.g. Zinc chromate

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**Program**



**Client:**  
GOVERNMENT OF SOUTH SUDAN

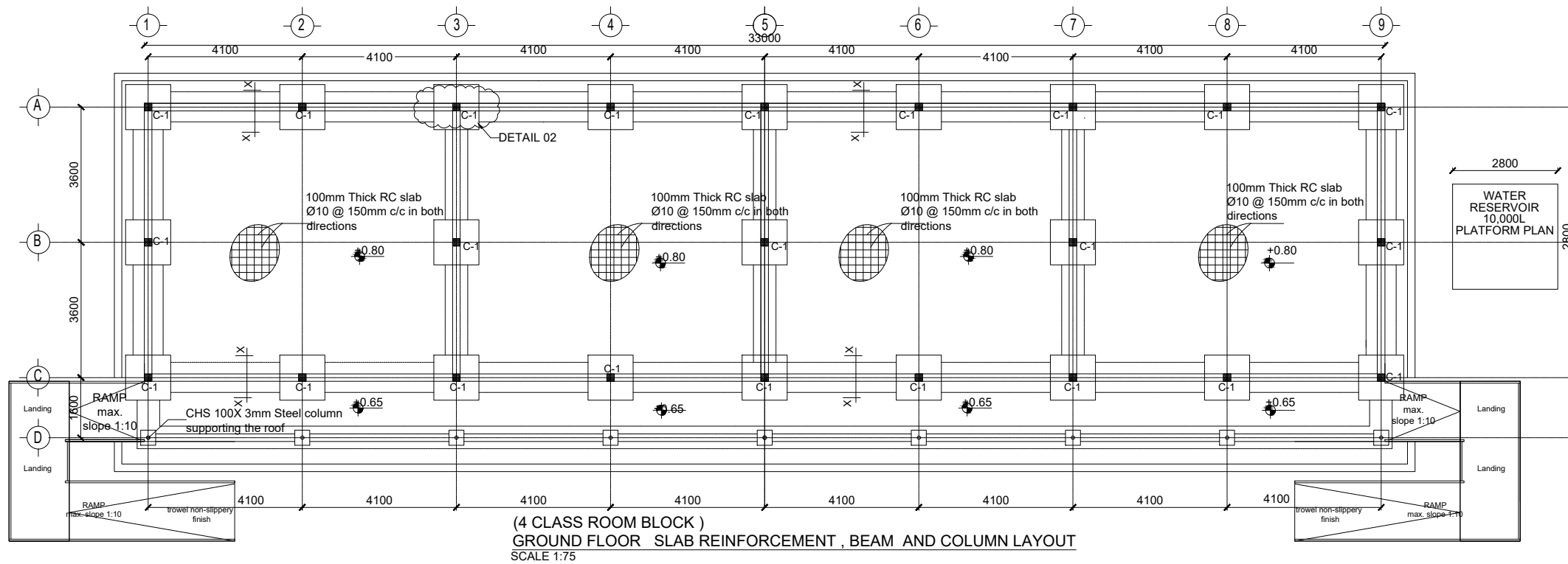
**Implemented By:**  


**Project:**  
PROPOSED FOUR CLASSROOMS BLOCK

**Drawing Title**

STRUCTURAL NOTES

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Sheet #: 5/12	Scale: AS SPECIFIED
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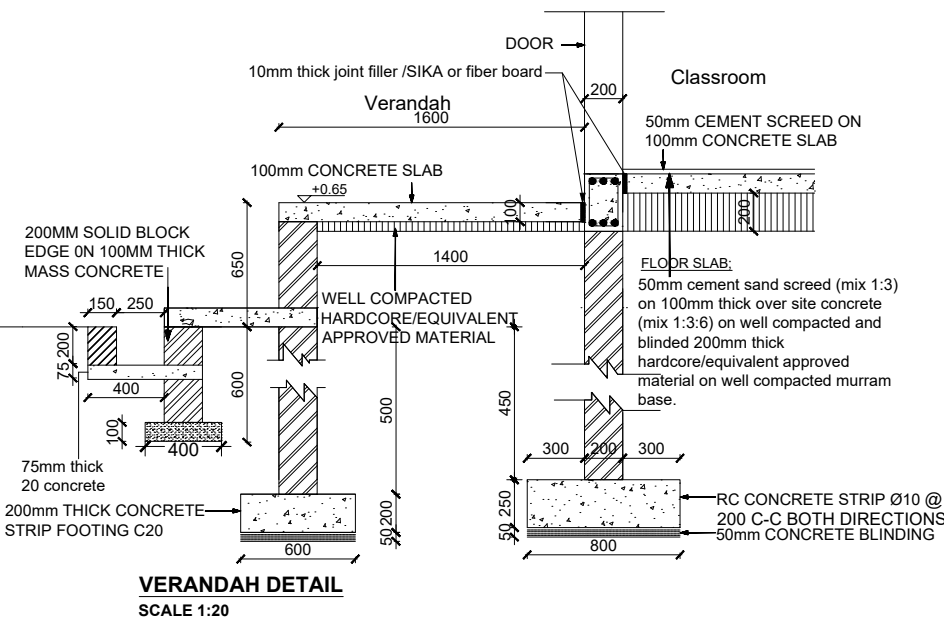
(4 CLASS ROOM BLOCK )  
GROUND FLOOR SLAB REINFORCEMENT , BEAM AND COLUMN LAYOUT  
SCALE 1:75

GENERAL NOTES:

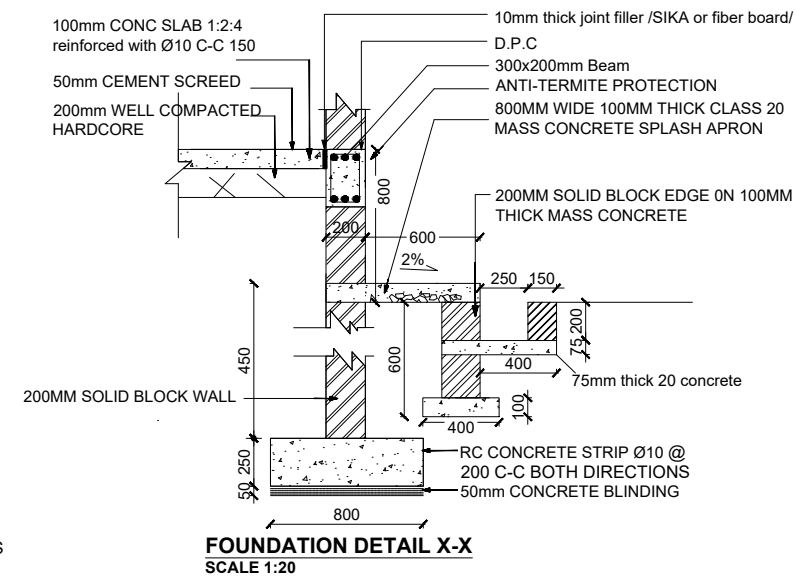


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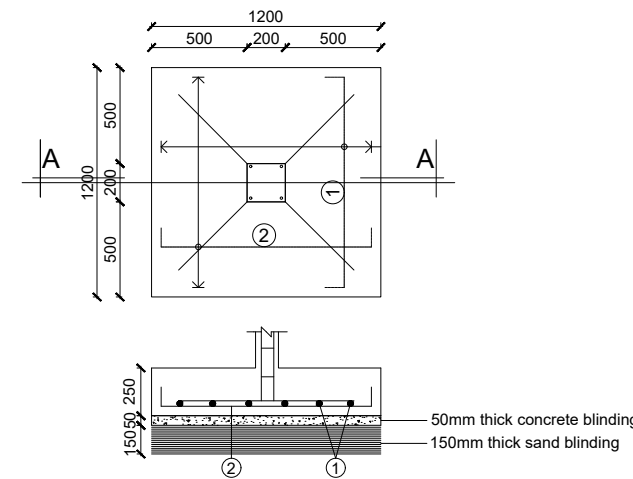
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VERANDAH DETAIL  
SCALE 1:20



FOUNDATION DETAIL X-X  
SCALE 1:20



SECTION A-A  
Scale 1:20

FOUNDATION DETAIL - DETAIL 2  
SCALE 1:20

Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



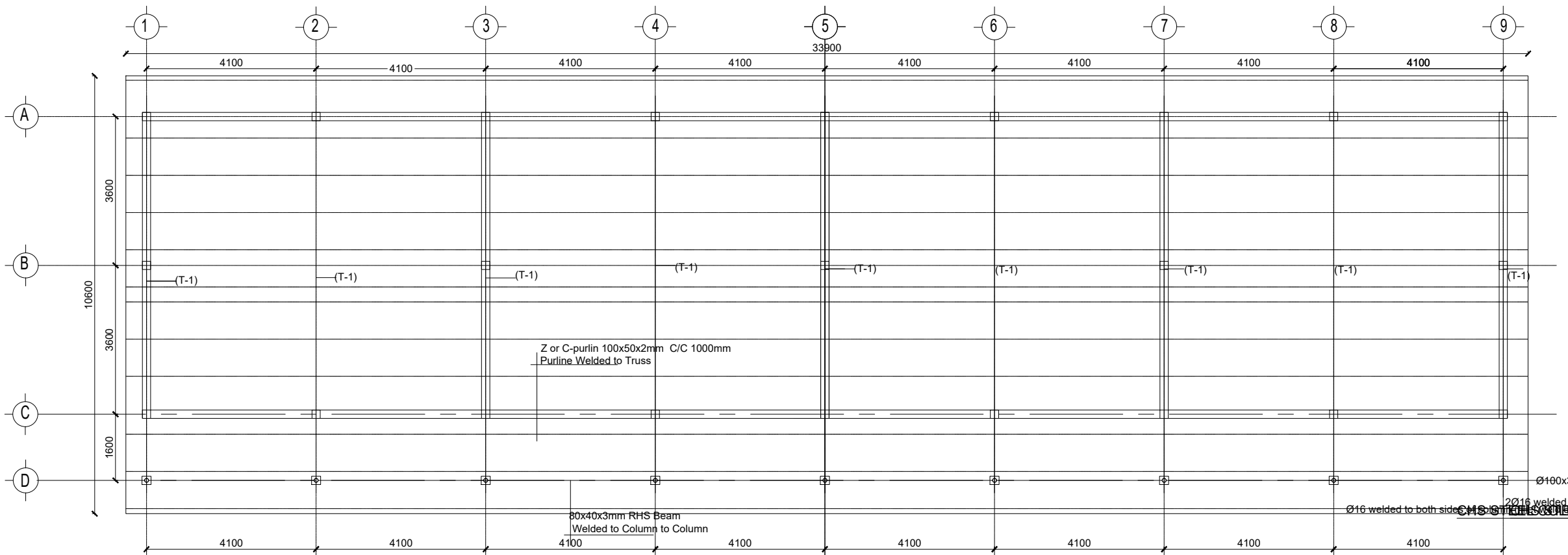
Project:

PROPOSED FOUR CLASSROOMS BLOCK

Drawing Title

FOUNDATION PLAN AND FOUNDATION DETAILS

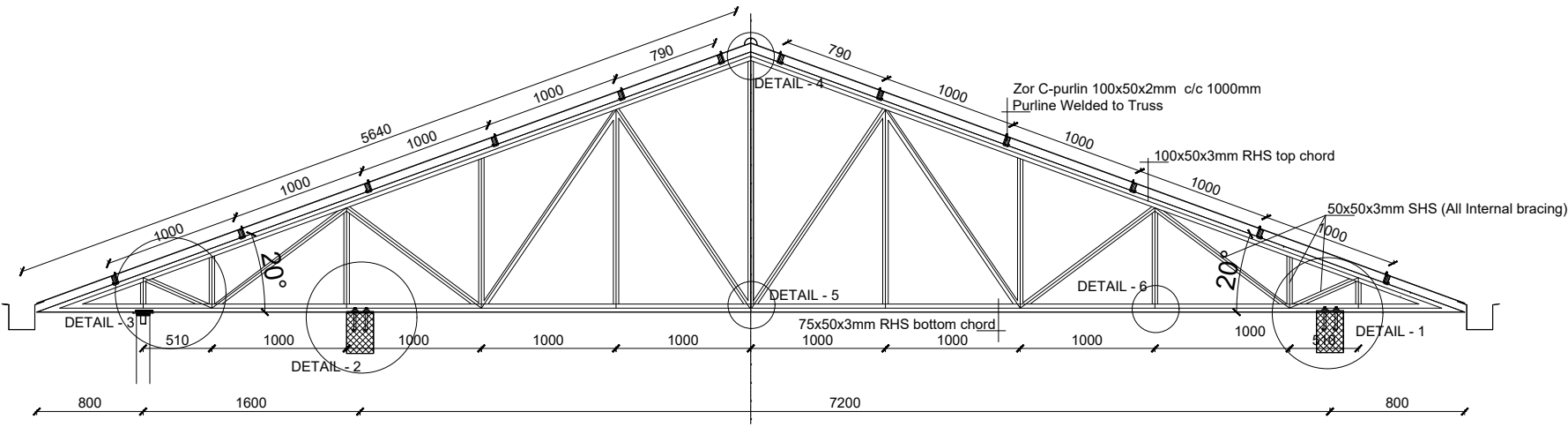
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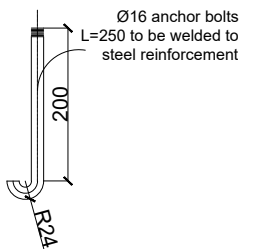
(4 CLASS ROOM BLOCK)  
**ROOF BEAM AND TRUSS LAYOUT**  
 SCALE 1:50



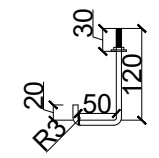
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**TRUSS T-1 DETAIL**  
 SC:1.25



**Beam to Truss J bolt Details**  
 SCALE 1:5



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

Rev:	Date	Description:	Approved
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Program

**Enhancing Community Resilience and Local Governance Project**

Client:  
**GOVERNMENT OF SOUTH SUDAN**

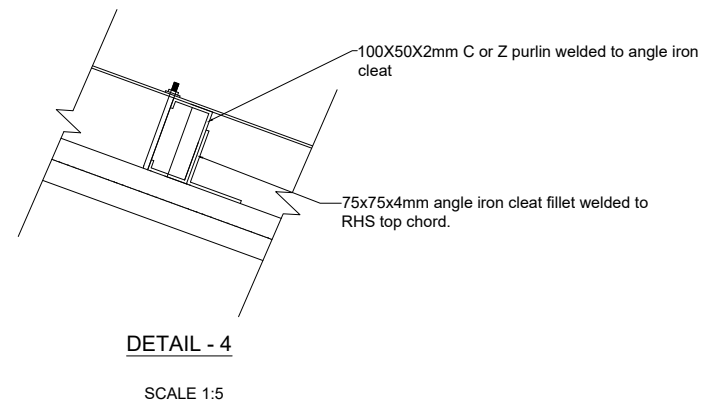
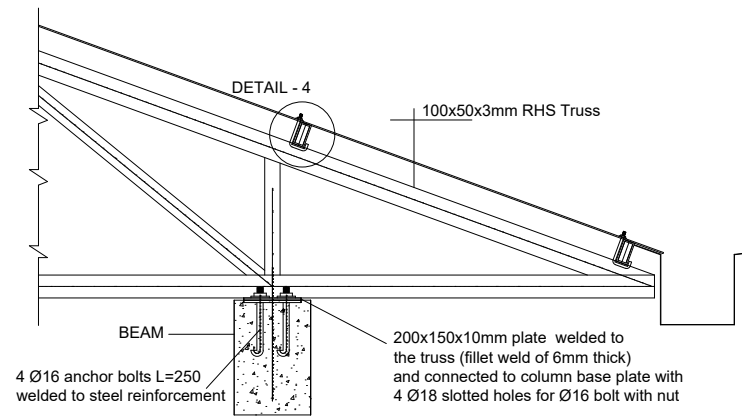
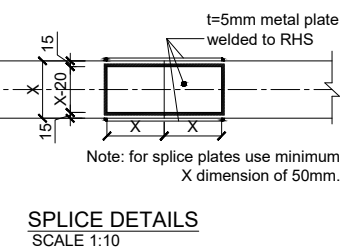
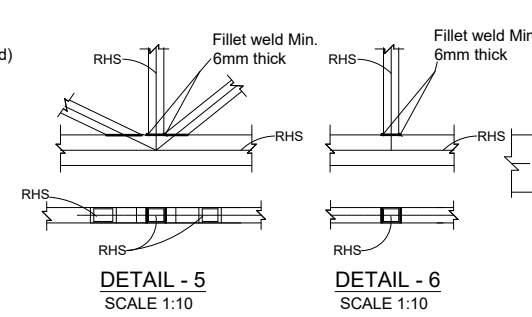
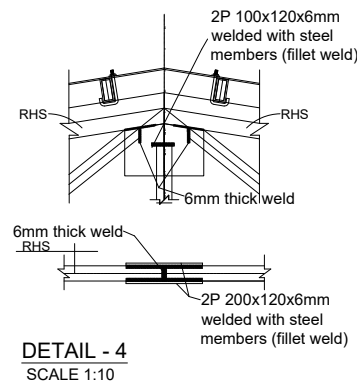
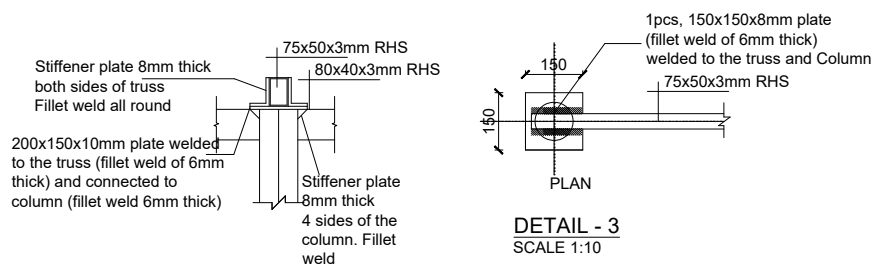
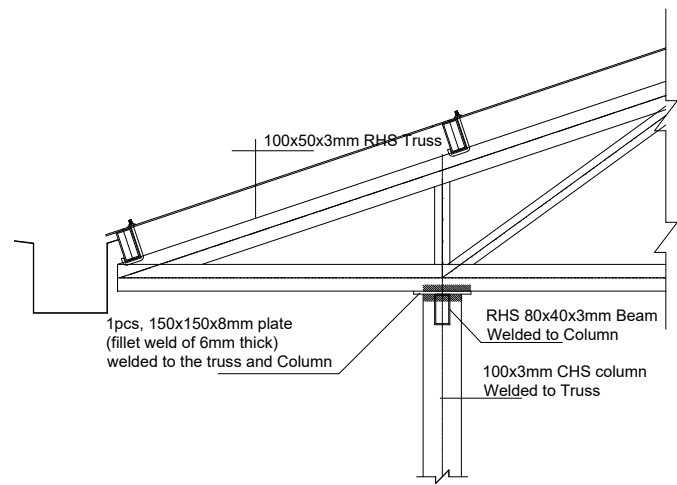
Implemented By:

**IOM**  
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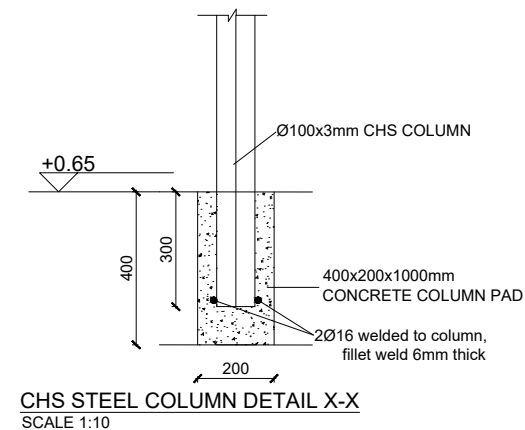
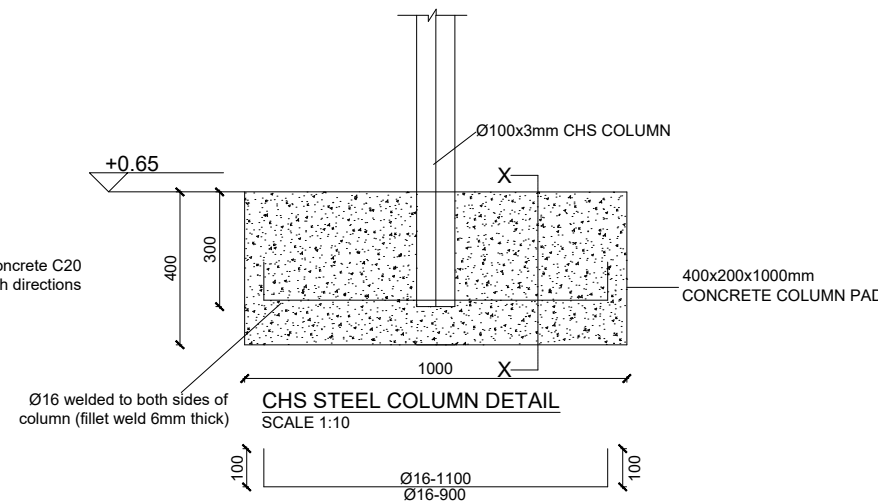
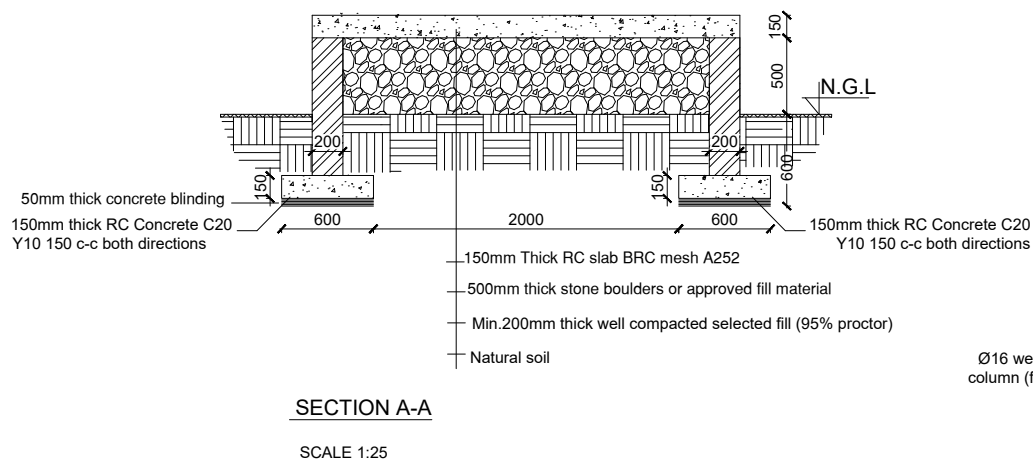
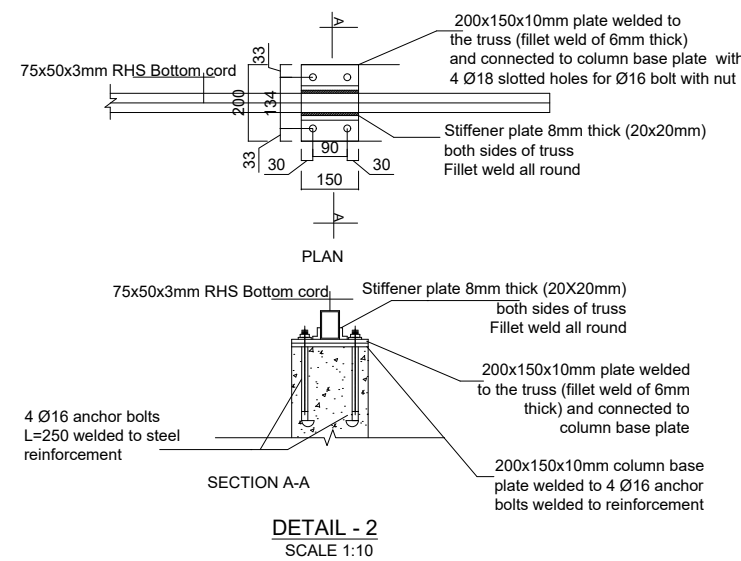
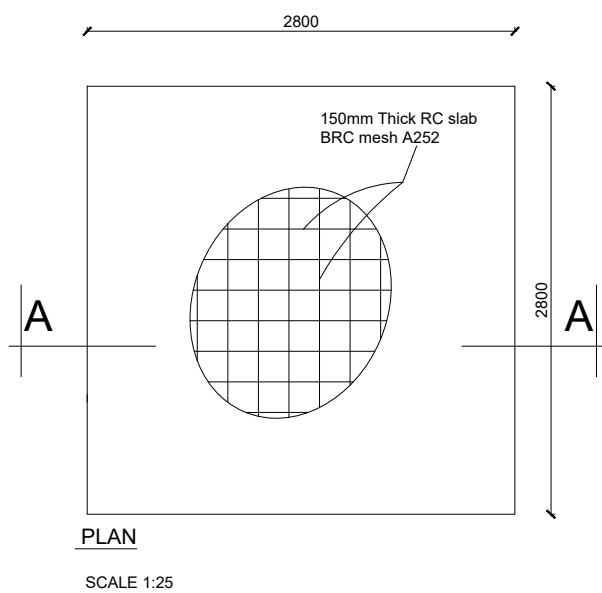
Project:  
**PROPOSED FOUR CLASSROOMS BLOCK**

Drawing Title  
**TRUSS LAYOUT AND DETAILS**

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
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**WATER RESERVOIR PLATFORM PLAN**



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Implemented By:

**IOM**  
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Project:

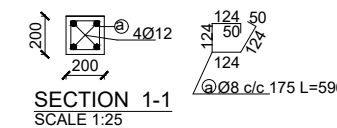
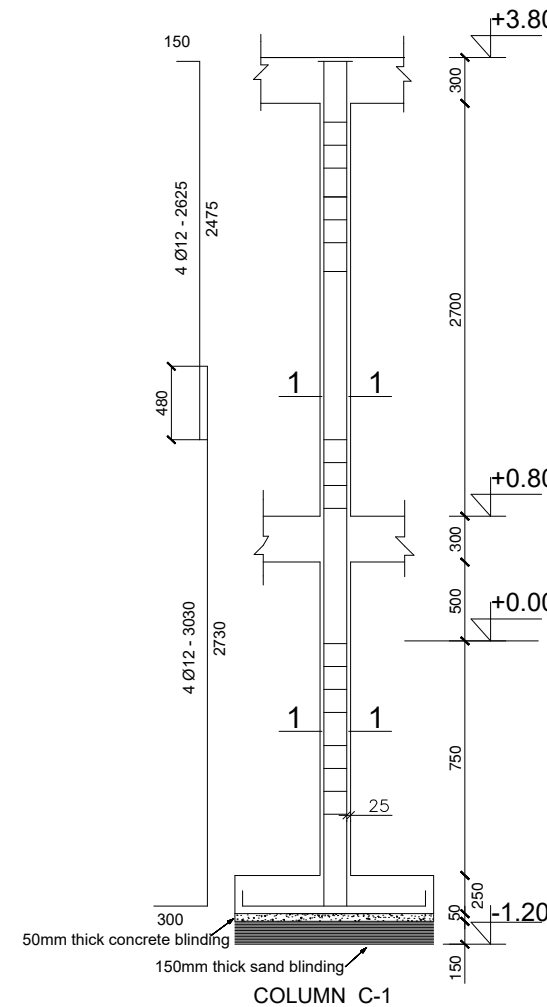
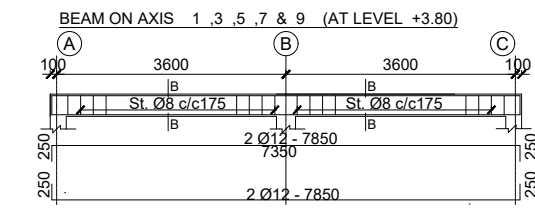
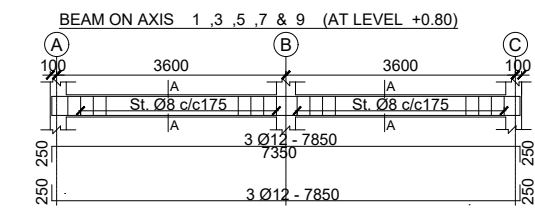
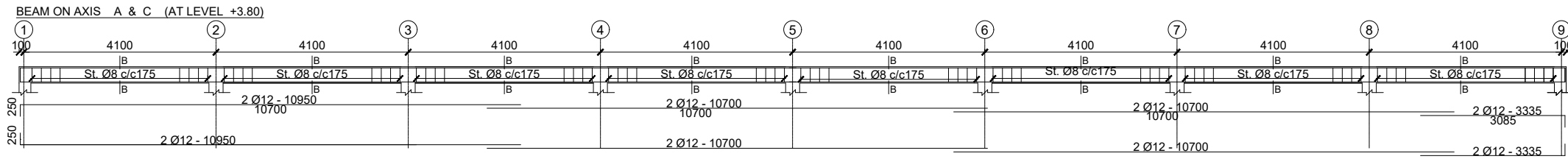
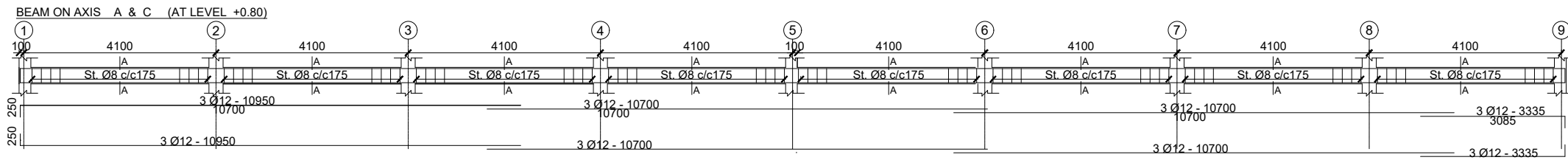
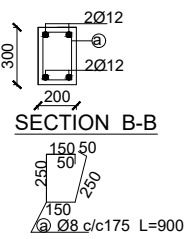
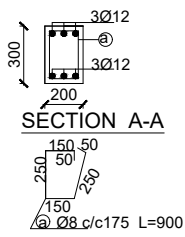
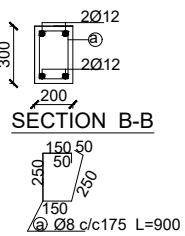
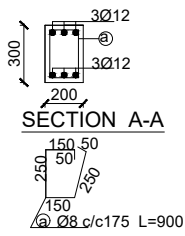
**PROPOSED FOUR CLASSROOMS BLOCK**

Drawing Title

**TRUSS, TANK SHED AND COLUMN DETAILS**

Designed By: H.A	Drawn by: H.A
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Client:  
**GOVERNMENT OF SOUTH SUDAN**



Project:  
**PROPOSED FOUR CLASSROOMS BLOCK**

Drawing Title	
BEAM AND COLUMN DETAILS	
Designed By: H.A	Drawn by: H.A
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**DOOR SCHEDULE**

Door Name	D1
Quantity	4
Frame material	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & 2 coats of enamel paint
Door leaf construction	90D Opening, 1.5mm casement metal panel
Burglar Proofing	RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the interior side.
<b>Ironmongry</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.

**WINDOW SCHEDULE**

Window Name	W1
Quantity	28
Frame material	LTZ steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & 2 coats of enamel paint
Window leaf construction	1.5mm casement metal pane
Burglar proofing	RHS 25 X 25 X 2 mm steel bars welded to frames at equal spacing behind glazings on the interior side
<b>Ironmongry</b>	stainless steel pull-push bar handle
Louver	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.

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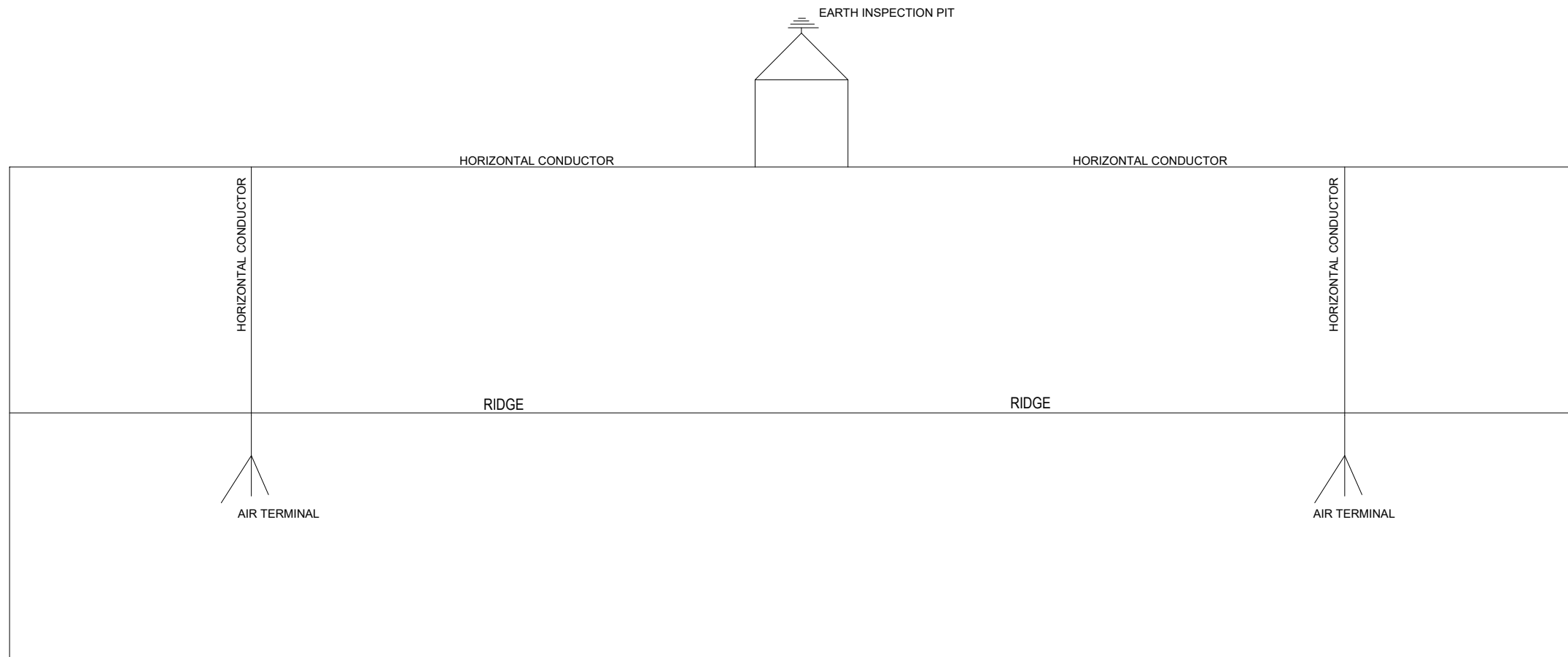
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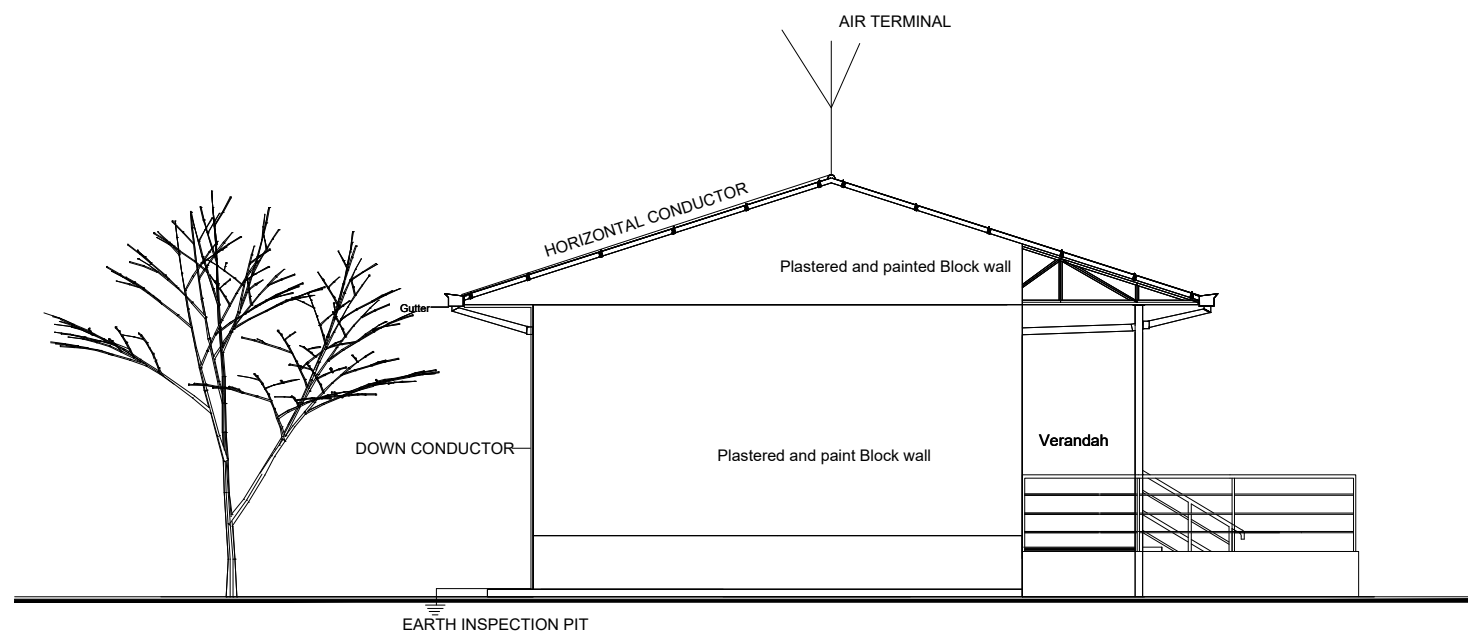
Drawing Title

DOOR AND WINDOW SCHEDULE

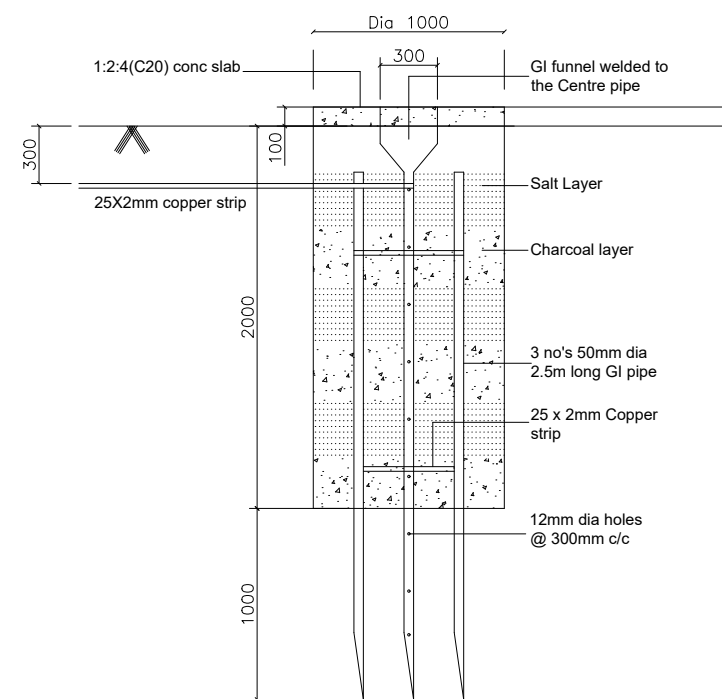
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Checked: F.E & G.O	Approved: ----
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**LIGHTNING PROTECTION PLAN**  
SCALE 1:60



**LEFT SIDE ELEVATION**  
Sc. 1:50



**EARTH PIT**  
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. Depth of pad foundation 1200mm.
5. Depth of strip foundation 750mm.
6. Any discrepancy or changes is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
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Program



Client:  
**GOVERNMENT OF SOUTH SUDAN**

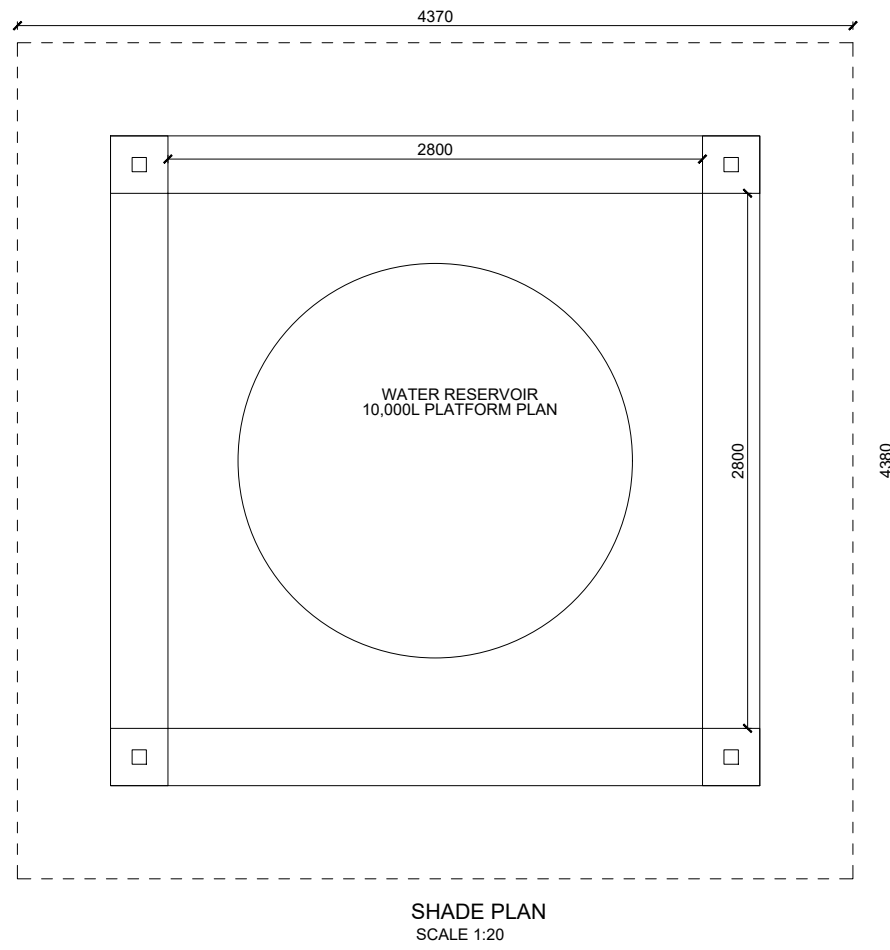
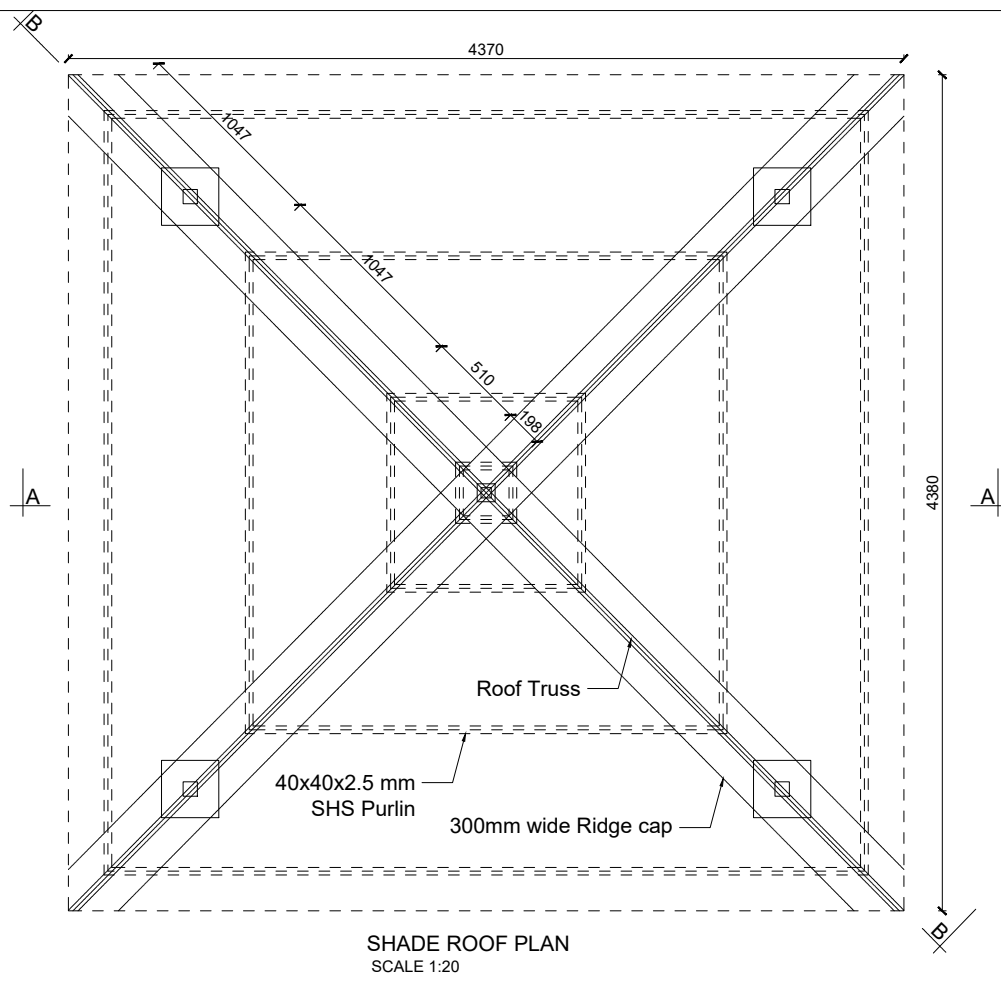
Implemented By:  
**IOM**  
UN MIGRATION

Project:  
**PROPOSED FOUR CLASSROOMS BLOCK**

Drawing Title

**LIGHTNING PROTECTION**

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 11/12	Scale: AS SPECIFIED
Date: 25 June 2024	Rev: 2

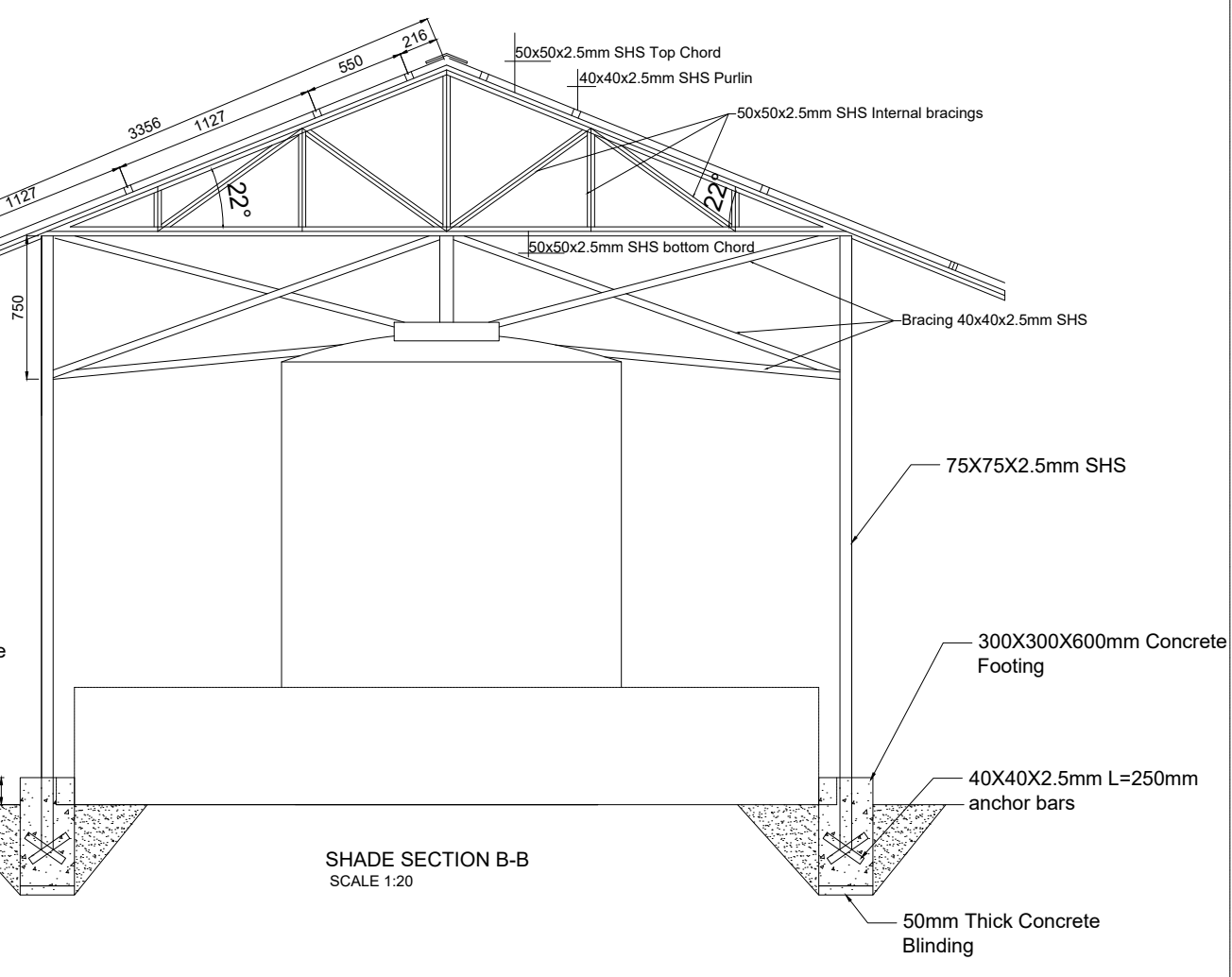
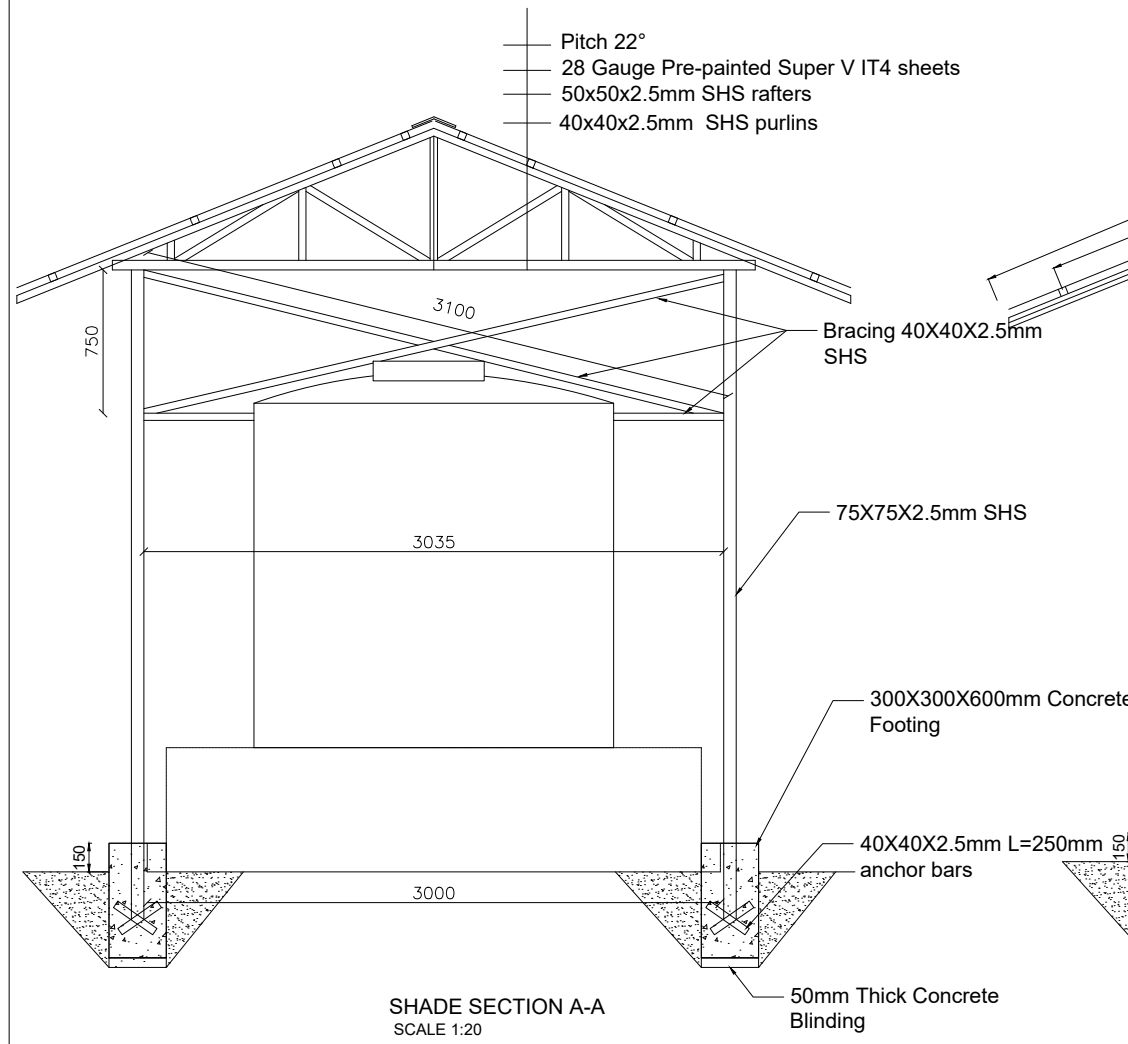


GENERAL NOTES:



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. Depth of pad foundation 1200mm.
5. Depth of strip foundation 750mm.
6. Any discrepancy or changes is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
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Program

Client:  
**GOVERNMENT OF SOUTH SUDAN**

Implemented By:

Project:  
**PROPOSED FOUR CLASSROOM**

Drawing Title  
**WATER TANK SHED**

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 12/12	Scale: AS SPECIFIED
Date: 25 June 2024	Rev: 2