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- Depth of pad foundation 1200mm. Depth of strip foundation 750mm.
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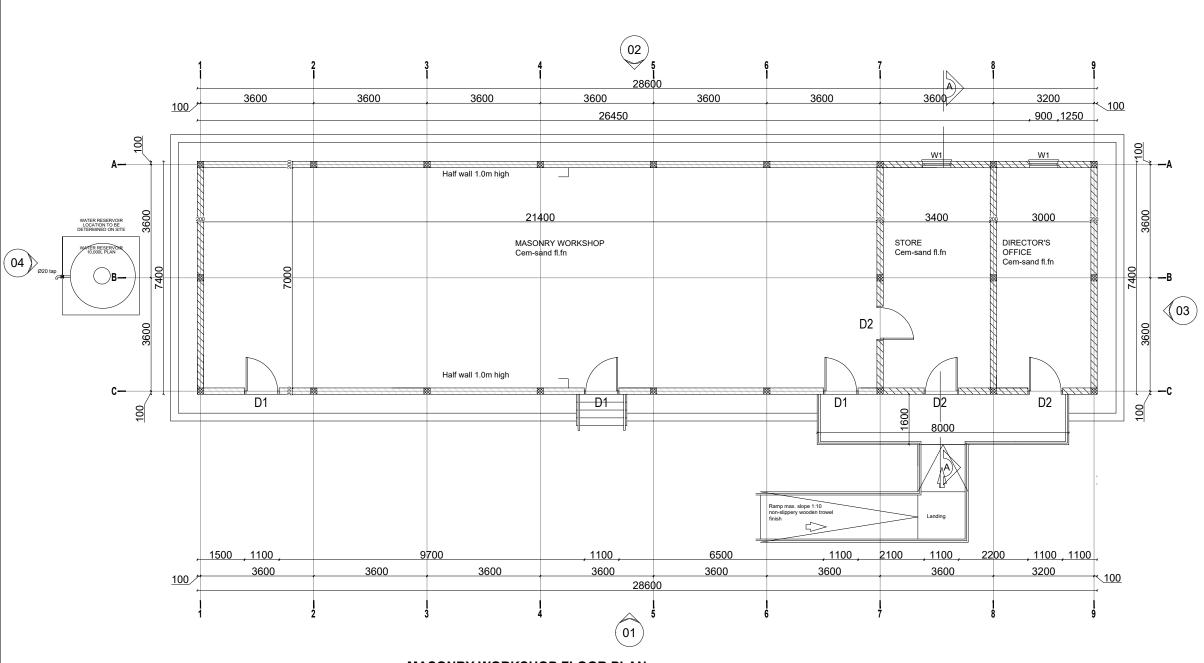


PROPOSED CONSTRUCTION OF WORKSHOPS FOR

BENTIU TVET CENTRE Drawing Tittle

Layout Plan

Designed By: S.S.D Drawn by: S.S.D Checked: F.E Approved: S.P Scale: AS SPECIFIED Sheet #: 2/18 Date: 25 October 2024



# MASONRY WORKSHOP FLOOR PLAN

Sc. 1:60





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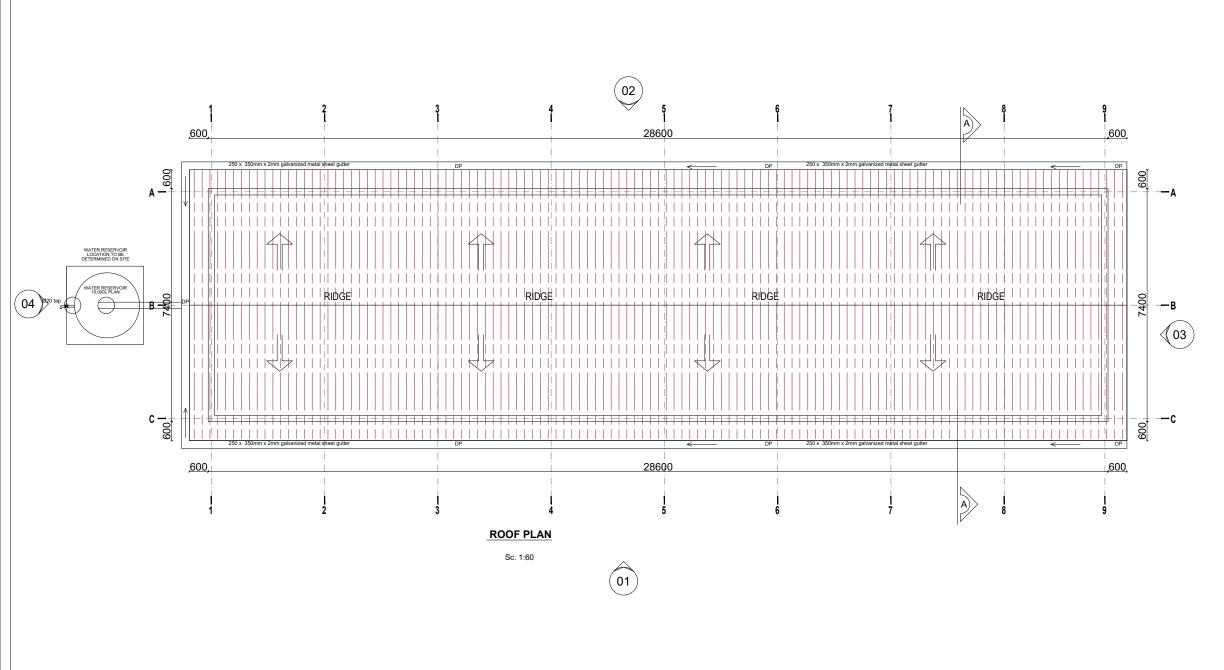


PROPOSED CONSTRUCTION OF WORKSHOPS FOR BENTIU TVET CENTRE

Drawing Tittle

Floor Plan

Designed By: S.S.D	Drawn by: S.S.D
	Approved: S.P
Sheet #: 3/18	Scale: AS SPECIFIED
Date: 25 October 2024	Rev: 0







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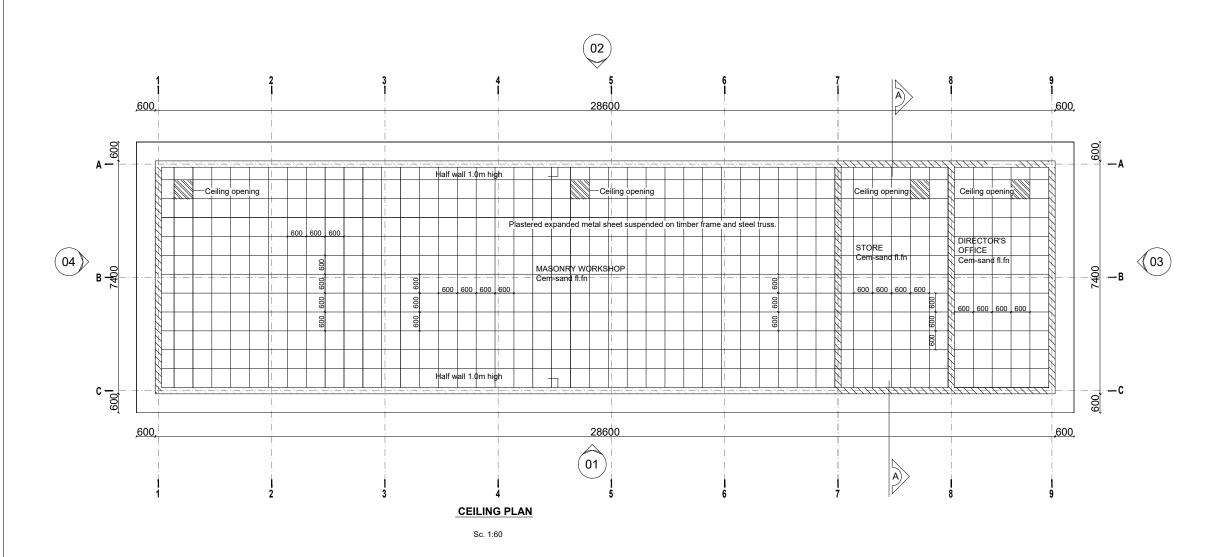
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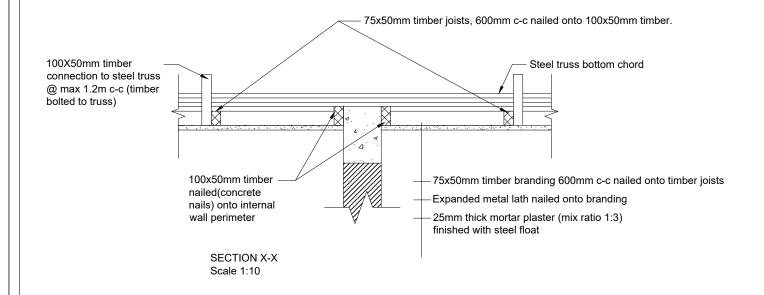
BENTIU TVET CENTRE

Drawing Tittle

Roof Plan

Designed By: S.S.D Drawn by: S.S.D Checked: F.E Approved: S.P Scale: AS SPECIFIED Sheet #: 4/18 Date: 25 October 2024









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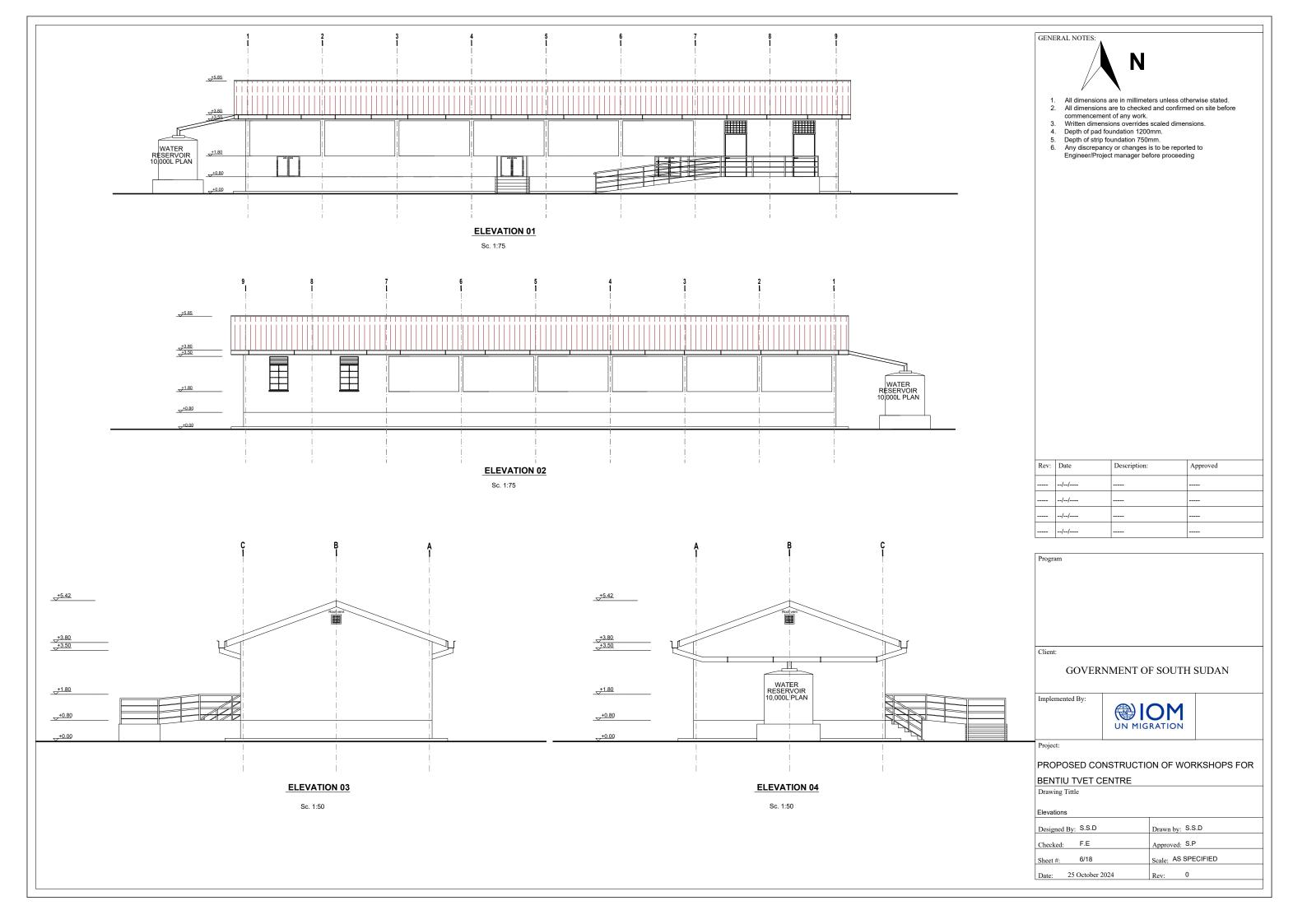
  Depth of strip foundation 750mm.

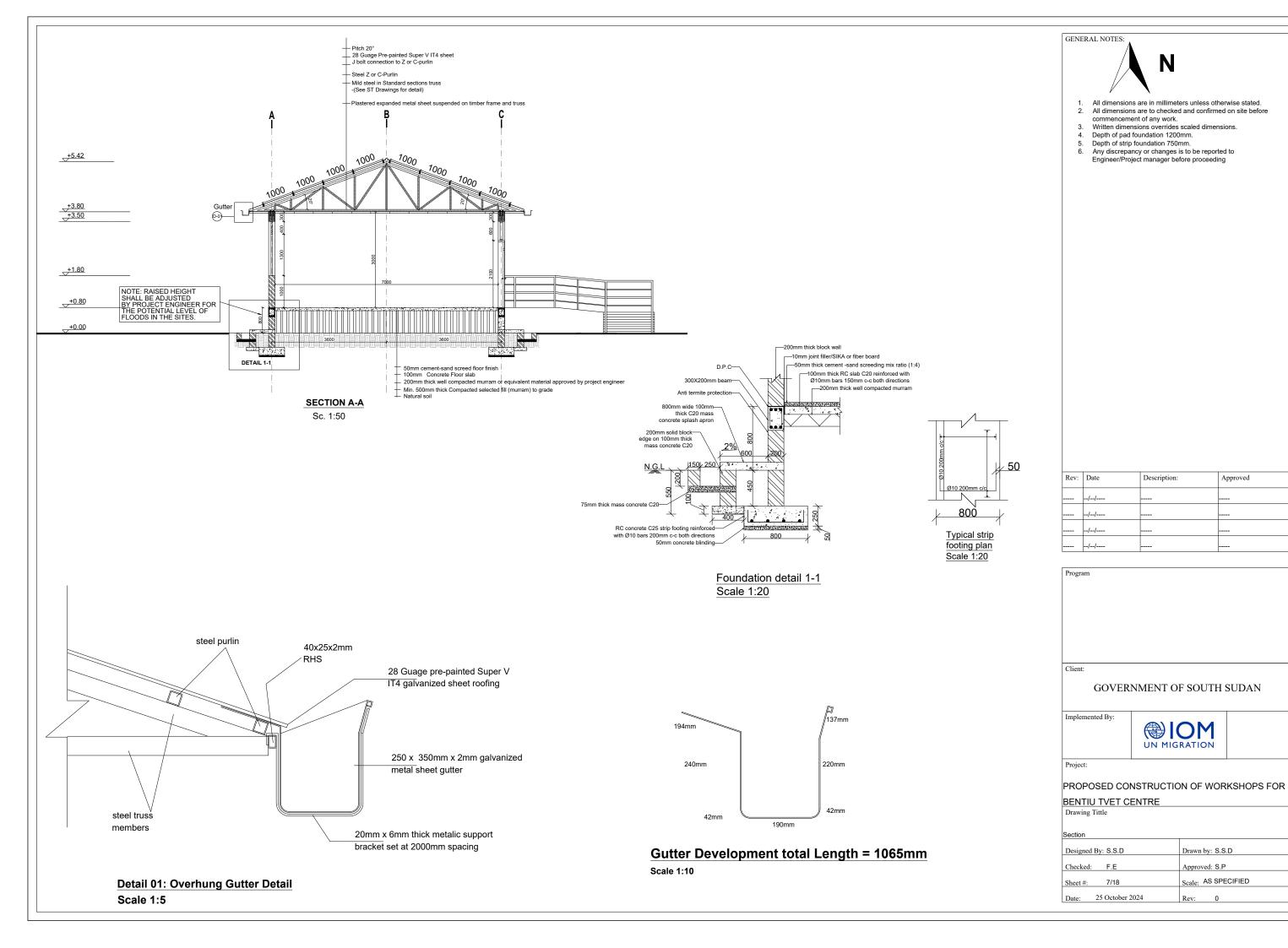
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## STRUCTURAL NOTES:

- Building shall be founded on load bearing stone/concrete block masonry wall having a depth of 750mm and pad foundation having a depth of 1200mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
- Stone masonry foundation shall be on reinforced concrete strip footing placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m2.
- III) Foundation trench excavation to be approved by the Engineer prior to the construction of footing and the stone/block masonry foundation.
- 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)

Concrete reinforcement bar

Grade 460 (Characteristics yield strength of fyk = 460 MPa)

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

- **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 fabrication primer e.g. Zinc chromate
  - Two coats of an approved paint system to be proposed by Architect, one applied at shop and the other on site after erection.





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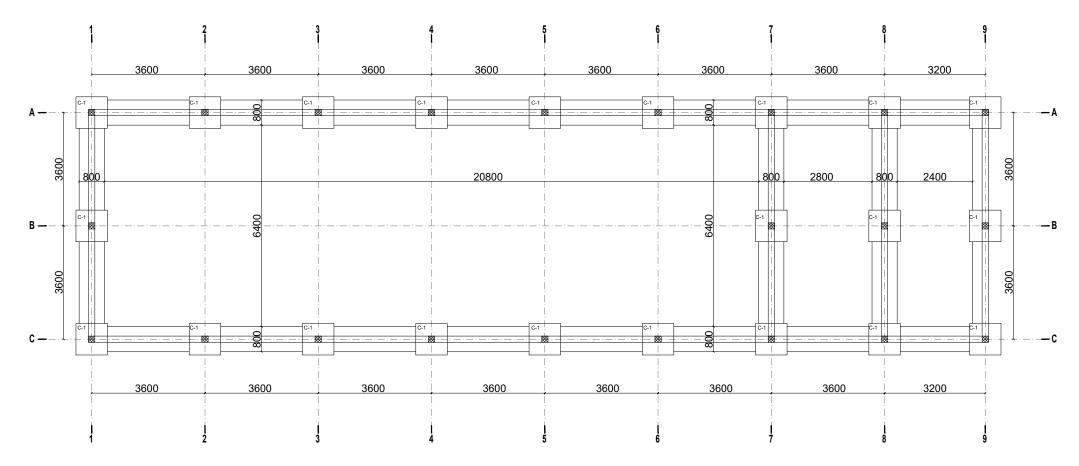
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PROPOSED CONSTRUCTION OF WORKSHOPS FOR BENTIU TVET CENTRE

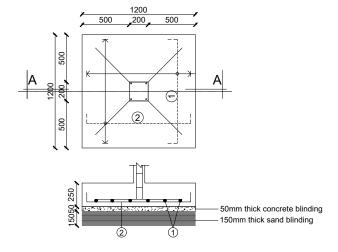
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## **FOUNDATION PLAN**

Sc. 1:60



# SECTION A-A Scale 1:20

PAD FOOTING DETAIL SCALE 1:20

GENERAL NOTES:



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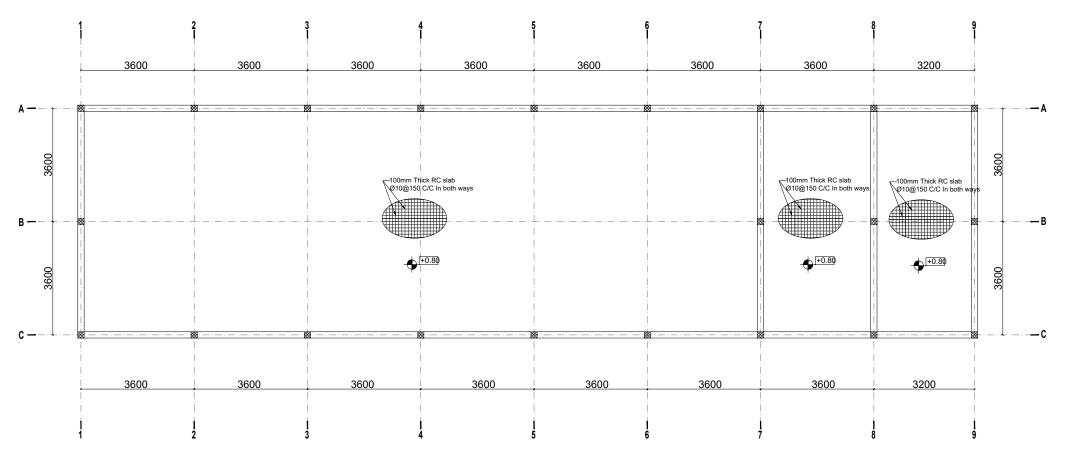
PROPOSED CONSTRUCTION OF WORKSHOPS FOR

BENTIU TVET CENTRE

Drawing Tittle

Foundation Plan

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GROUND FLOOR SLAB REINFORCEMENT, BEAM AND COLUMN LAYOUT

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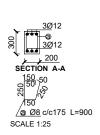
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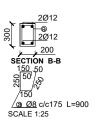
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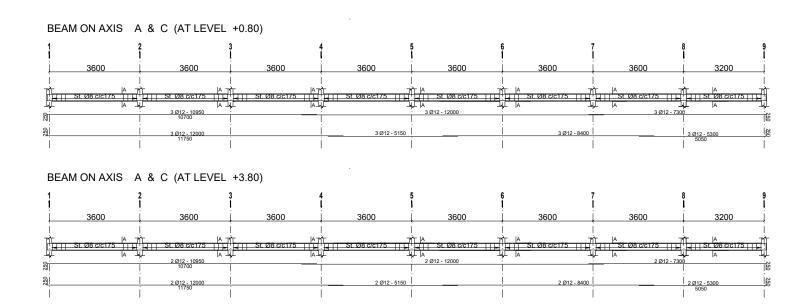
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Ground slab reinforcement, beam and cloumn layout

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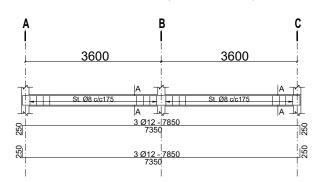


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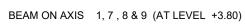
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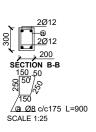
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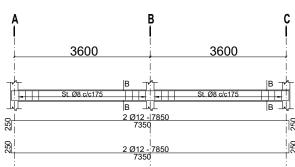
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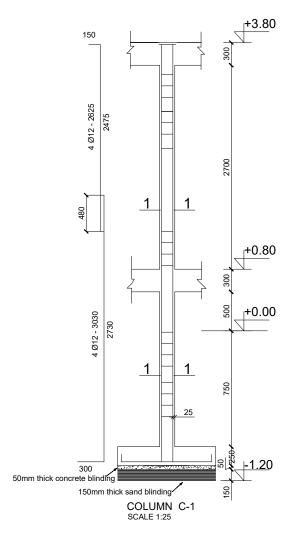


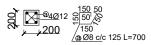
BEAM ON AXIS 1, 7, 8 & 9 (AT LEVEL +0.80)











SECTION 1-1 SCALE 1:25





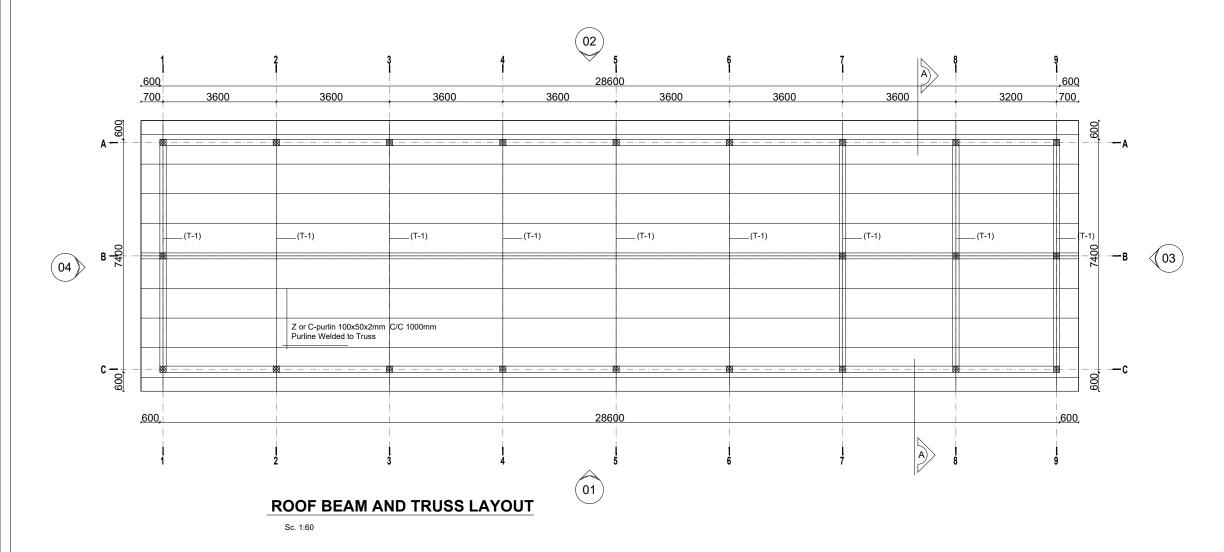
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Beam reinforcement					
Designed By: S.S.D		Drawn by: S.S	.D		
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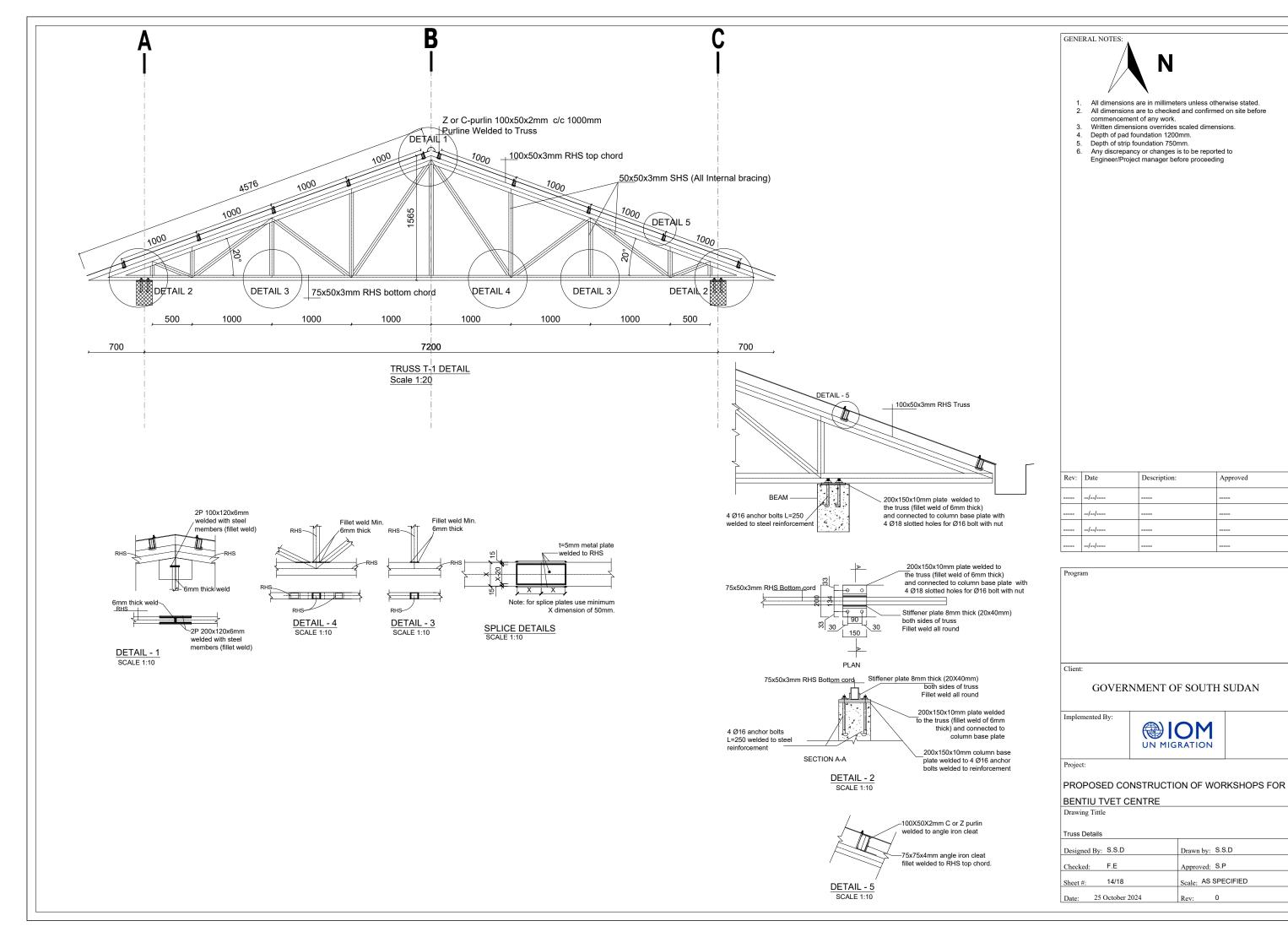
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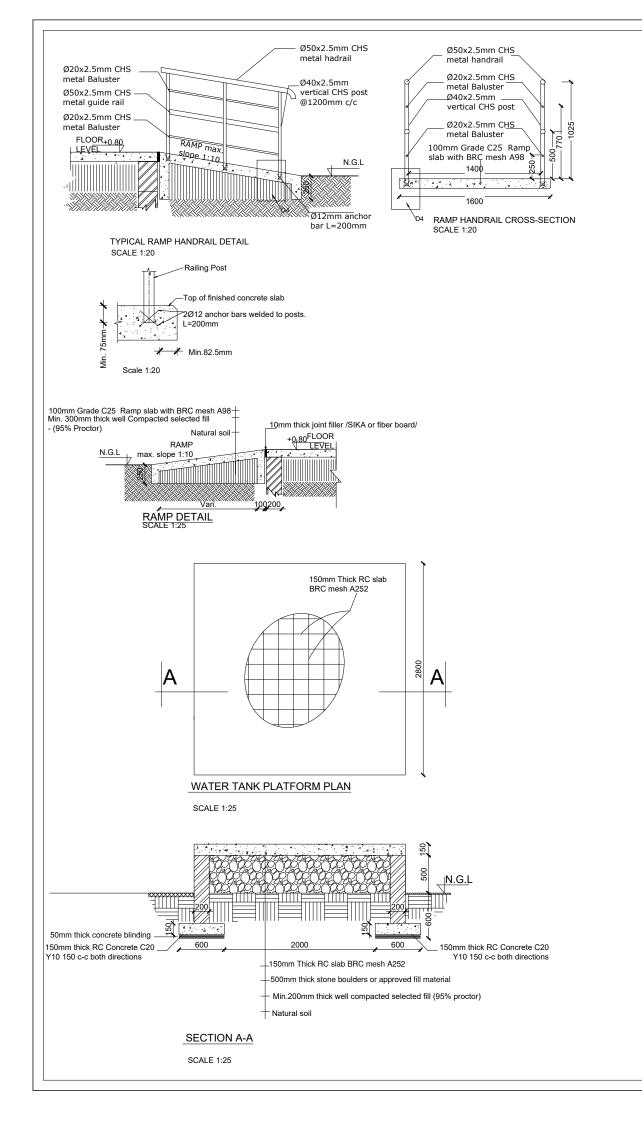
PROPOSED CONSTRUCTION OF WORKSHOPS FOR BENTIU TVET CENTRE

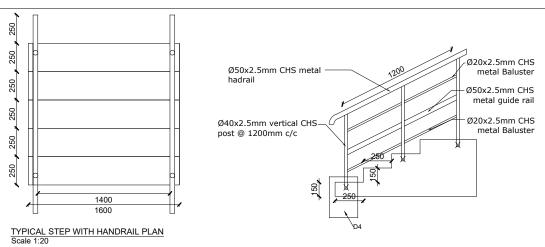
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Truss Layout

Designed By: S.S.D Drawn by: S.S.D Checked: F.E Approved: S.P Scale: AS SPECIFIED Sheet #: 13/18 Date: 25 October 2024









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PROPOSED CONSTRUCTION OF WORKSHOPS FOR			
BENTIU TVET CENTRE			
Drawing Tittle			
Stairs, Ramp, guard rail and water tank platform details			
Designed By: S.S.D Drawn by: S.S.D			.D
Checked: F.E Approved: S.P			

Scale: AS SPECIFIED

## DOOR SCHEDULE

#### DOOR SCHEDULE

DOOK SCHEDULE		DOOK SCHI	DOOK SCHEDULE	
Door Name	D1	Door Name	D2	
Quantity	3	Quantity	3	
Frame material	RHS steel frame 40mm x 40mm x 2mm	Frame material	RHS steel frame 40mm x 40mm x 2mm	
Frame finish	Painted with 2 coats of antirust paint & 2 coats of enamel paint	Frame finish	Painted with 2 coats of antirust paint & 2 coats of enamel paint	
Door leaf construction	90D Opening, 1.5mm casement metal panel	Door leaf construction	90D Opening, 1.5mm casement metal panel	
Burglar Proofing	N/A	Burglar Proofing	RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the interior side.	
Ironmongry	stainless steel pull-push bar handle	Ironmongry	stainless steel pull-push bar handle	
Louver	N/A	Louver	0.5mm thick steel louvers at top welded to RHS frame Louver to be covered with approved mosquito net.	
	+1.80		+3.50 +2.90 +0.80 1100	

### WINDOW SCHEDULE

Window Name	W1		
Quantity	2		
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		
Ironmongry	stainless steel pull-push bar handle		
Louver	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.		
	+3.50 +3.10 +1.80 +0.80		





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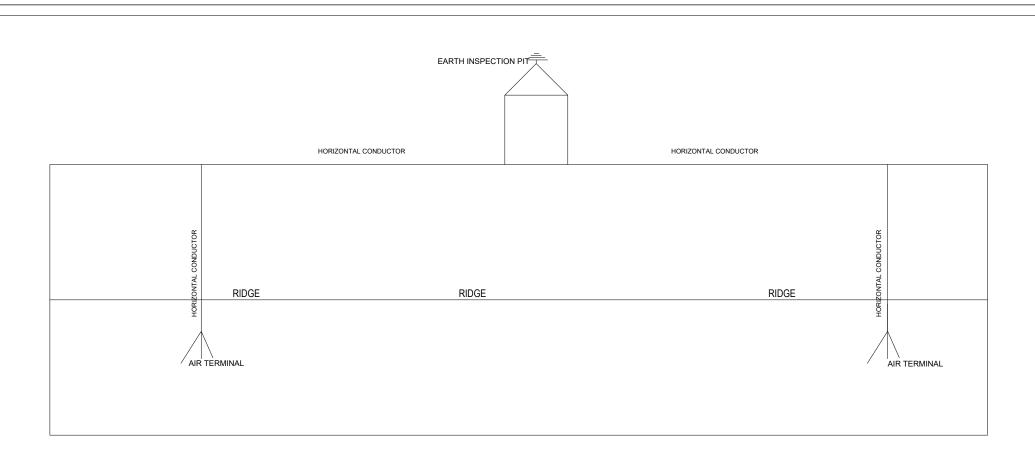
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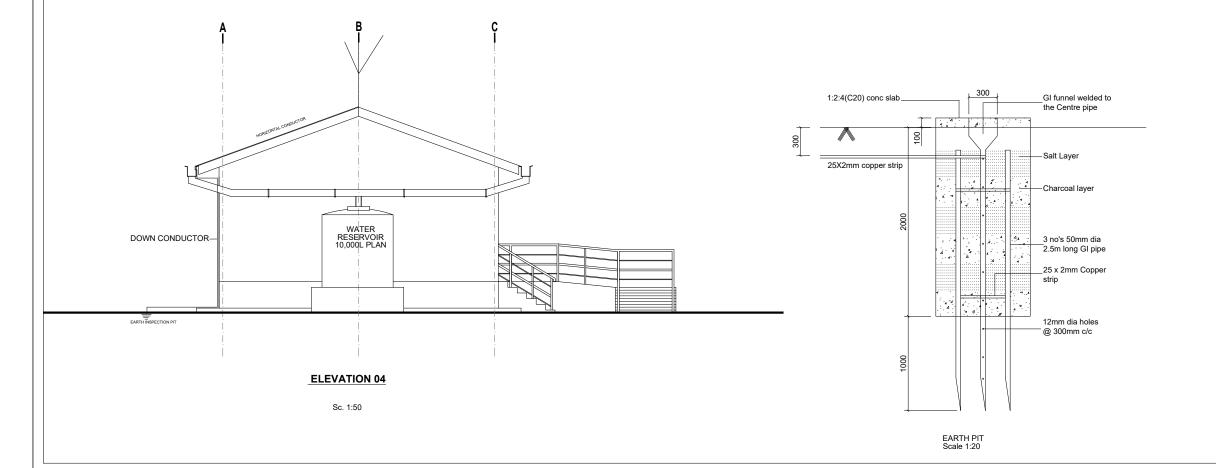
Sheet #: 16/18 Date: 25 October 2024

Door and Window Schedule Designed By: S.S.D



### LIGHTNING PROTECTION PLAN

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Program



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