

# SHEET LIST

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G200	NOTES
G300	THREE DIMENSION
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A200	FLOOR PLAN ARCHUITECTURAL
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A400	END ELEVATIONS LEFT AND RIGHT
A500	END ELEVATIONS
A600	ROOF CROSS SECTION DETAILS
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A800	WALL SECTIONAL DETAILS
A900	FOUNDATION DETAILS
A101	STEEL SECTION U-SHAPE

DRAWINGS AND SPECIFICATIONS

## TEMPORARY LEARNING SPACE CLASSROOM BLOCKS CONSTRUCTION

All Region - Access via State HQs  
Coordinates: TBD

FUNDED BY:  
GLOBAL PARTNERSHIP FOR EDUCATION

DESIGNED BY

# UNICEF

EDUCATION



PROJECT

CONSTRUCTION  
OF  
CLASSROOM BLOCK

DRAWING DATE

12th March, 2021

REVISIONS

#	DATE

TITLE

TWO CLASSROOMS

SCALE

SHEET NUMBER

PLOT DATE

FILE NAME

TLS CLASSROOMS

**SITE PREPARATION**

- Building Site to be graded flat with 5% slope away from structure, extending a minimum of 2.5M from perimeter
- Drainage necessary away from structure, which may require substantial fill material

**CONCRETE**

- River sand may be used only after thorough washing to remove fines (silt and clay)
- All aggregate to be clean and free of organic material
- Water to be clear - use flocculent on river water or any water with suspended particles

**FOUNDATIONS COLUMN EXCAVATION**

- 400mm x 400mm x 900mm mass concrete pad foundation under each foundation steel column
- Concrete to be 1:2:4 cement:sand:aggregate, for the footing concrete
- All aggregate to be <50mm

**FOUNDATION COLUMNS FOOTINGS**

- 100mm x 100mm x 3mm fixed at the depth of 600mm, fdn. column with a
- Concrete to be 1:2:4 cement:sand: aggregate, for foundation column base

All aggregate to be <50mm

**SLAB**

- 75mm thick reinforced concrete floor slab 1:2:4 concrete and for location without murrum; compact normal soil and sand compacted before slab to reduce the compression and expansion.
- Floor slab to be with floor screed monolithically to achieve uniform bond.
- Control joints to be located between all rooms. Joint can be insert or saw cut, 10mm minimum depth

**WALL COLUMNS:**

- 100mm x 100mm x 3mm thick steel hollow wall section reinforced with
- Concrete to be 1:2:4 cement:sand:aggregate, for wall column Build half wall with brick walls,

**WALLS:**

- NOTE: for locations without clay burnt bricks, use of local materials like Bamboos, Timbers boards, and iron sheets can be used for the walls
- 400mm high from foundation use brick work to prevent flooding,
- 1800mm Bamboo walling on front and rear face of the building
- 2800mm high from the foundation and finished with iron sheets

**NOTE:** For locations without murrum; use the available black cotton soil, mixed with sand and compact. spread a layer of sand on top of the compacted ground and then cast the floor slab.

**DOORS**

- All doors are made of Iron sheets

**ROOF Metallic**

- Use corrugated 28gauge colored roof sheet
- All 60mm x 40mm x 1.5mm rafters, 60mm x40mm Tei Beam, 40mm x 40mm x 1.5mm struts and 40mm x 40mm x 1.5mm square steel purlins. All members to painted with three coats of anti rust paint or equivalent
- Purlins to be weld to rafter and to supporting cleat to provide adequate weld area and connection
- All steel members to be free of rust and all Nodes to connected with gusset plate of minimum 6mm thickness as indicated on drawings
- Rafters structure members to all be welded with adequate weld fillet of at least 6mm
- Roof structure /tie beam to be welded to 60mm x 40mm square tube.
- Roof sheets profile to be corrugated colored, 28 gauge
- All sheets to overlap 200mm


**FLOOR**

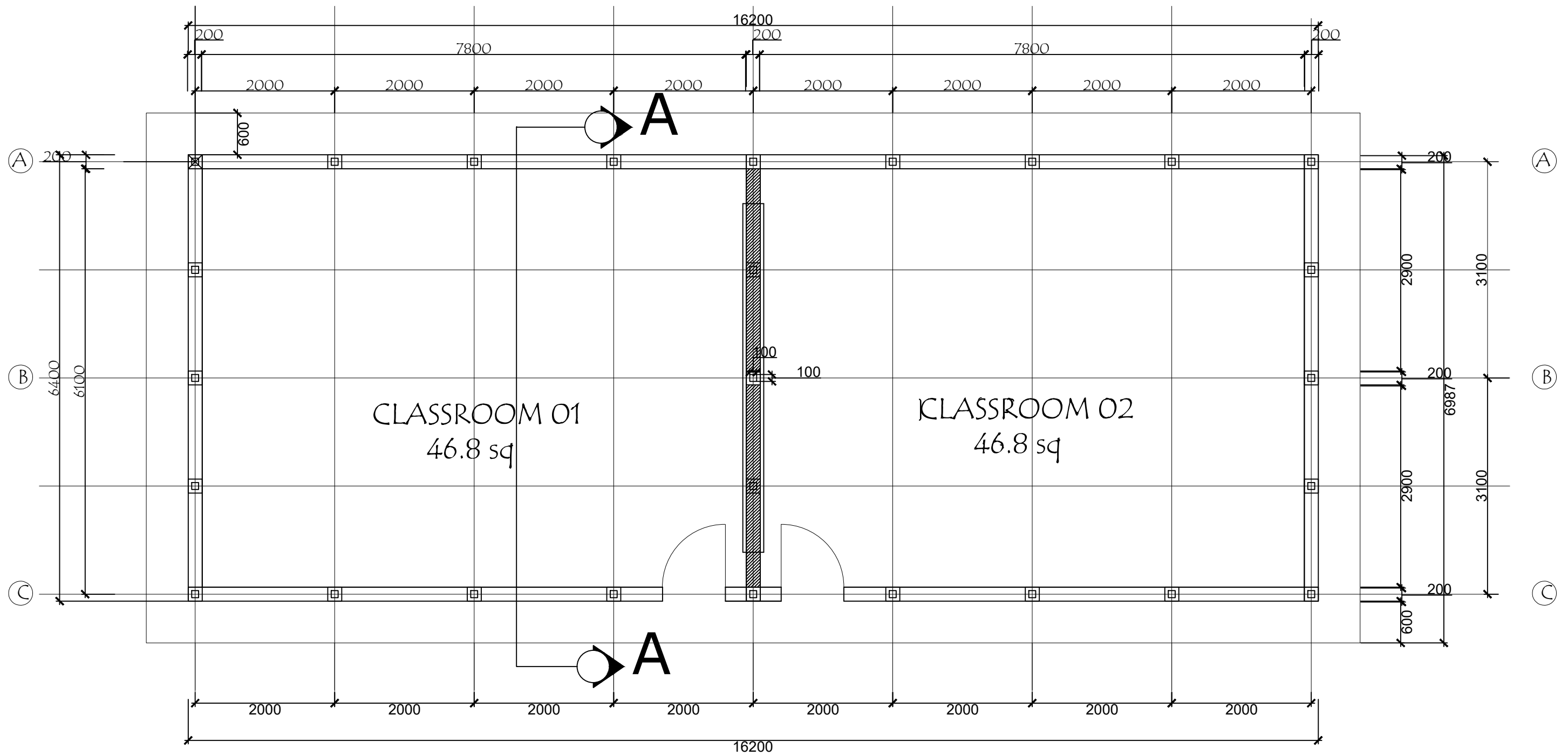
- Concrete floor to be 75mm 1:2:4 cement:sand: aggregate
- Floor screed monolithically to achieve uniform bond.
- Compact murrum, or place hardcore or compact natural soil mixed with sand to attain maximum compacted base layer. All Floor style may vary according to the location.

Type of Cement Work	Mix proportions			Dry required quantities for one cubic meter wet:				
	Cement	Sand	Gravel	Cement bags @ 50 kg	kg	Sand [m <sup>3</sup> ]	Gravel [m <sup>3</sup> ]	Stones or Boulders [m <sup>3</sup> ]
Cement Mortar	1	1	-	20.4	1020	0.71	-	-
	1	2	-	13.5	680	0.95	-	-
	1	3	-	10.2	510	1.05	-	-
Cement Plaster (20 mm w/ 12% waste)	1	4	-	7.6	380	1.05	-	-
	1	6	-	5.0	250	1.05	-	-
Cement Stone Masonries	1	4	uncoursed stone masonry	2.66	133	0.37	-	1.2
	1	6	uncoursed stone masonry	1.75	87.5	0.37	-	1.2
	1	4	coursed stone masonry	2.28	114	0.32	-	1.25
Cement Concretes (plain or reinforced)	1	6	masonry	1.50	75	0.32	-	1.25
	1	4	: 8	3.4	170	0.47	0.94	-
	1	3	: 6 (M10)	4.4	220	0.46	0.92	-
"Plum" Concrete with 50% boulders	1	2	: 4 (M15)	6.4	320	0.45	0.90	-
	1	1 1/2	: 3 (M20)	8	400	0.42	0.84	-
	1	3	: 6	2.64	132	0.28	0.54	0.50

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STRUCTURAL FLOOR PLAN  
46.8 sq



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EDU/UNICEF/SSD

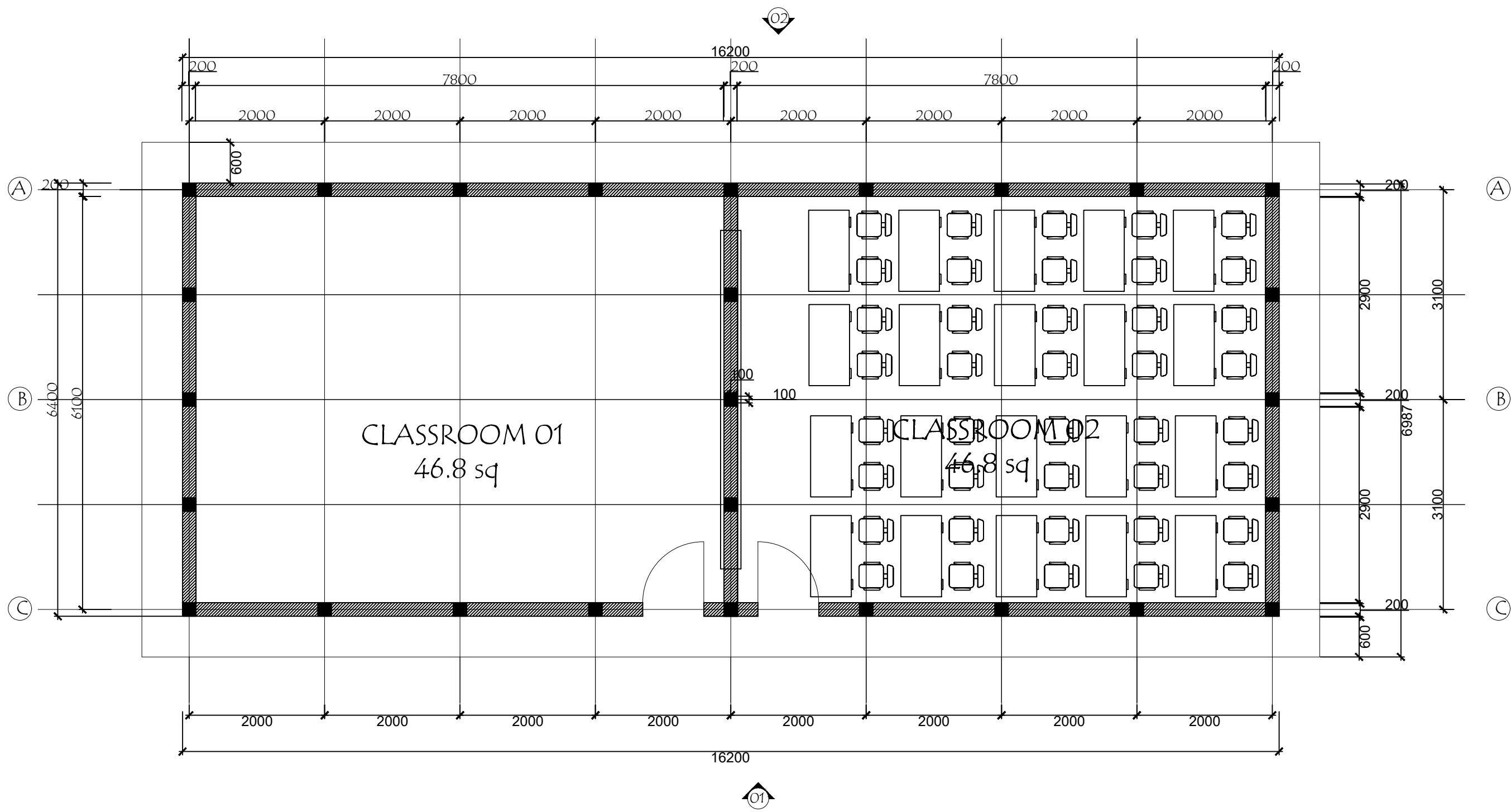
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ARCHITECTURAL FLOOR PLAN  
Scale: 1:100



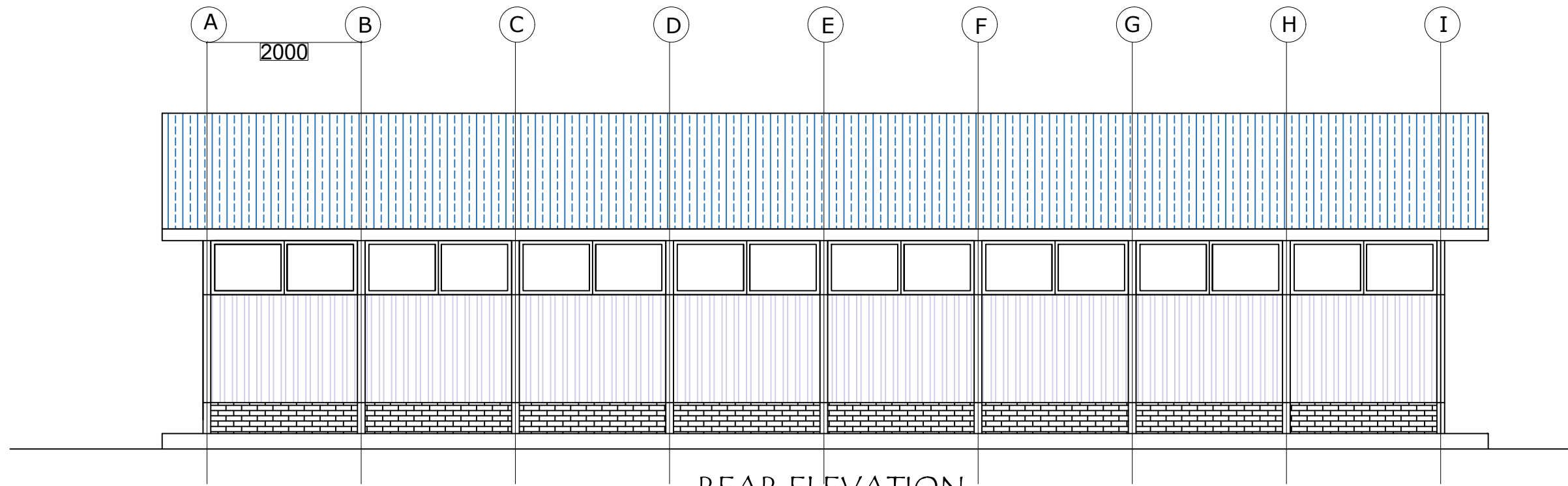
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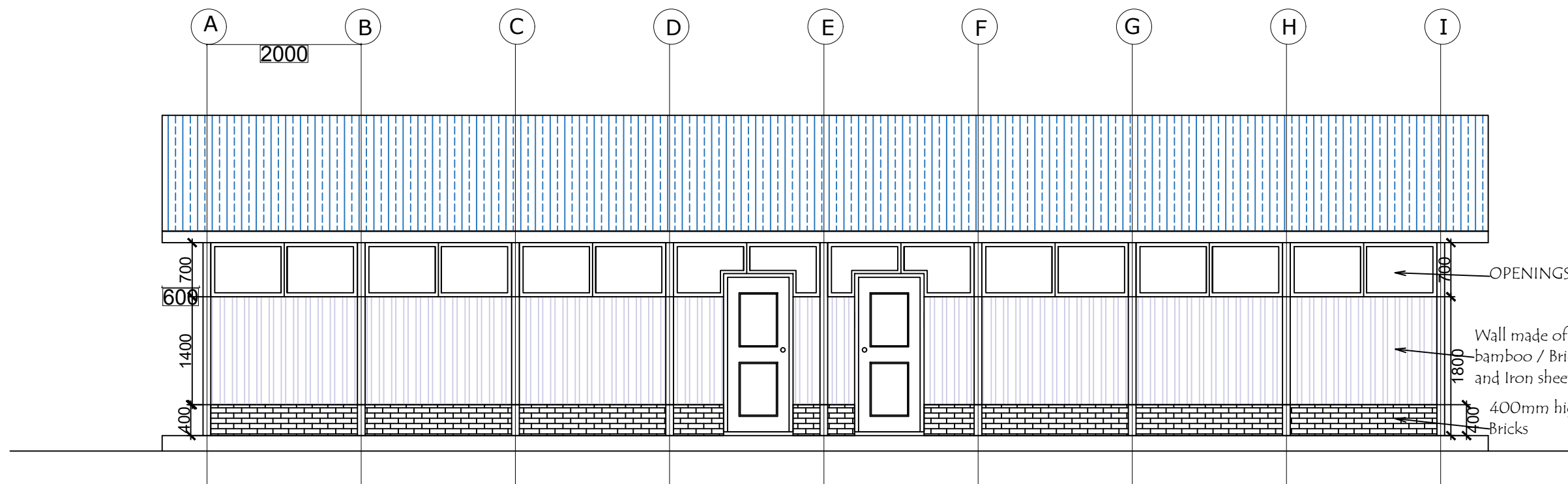
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REAR ELEVATION  
Scale 1:100



FRONT ELEVATION  
Scale 1:100



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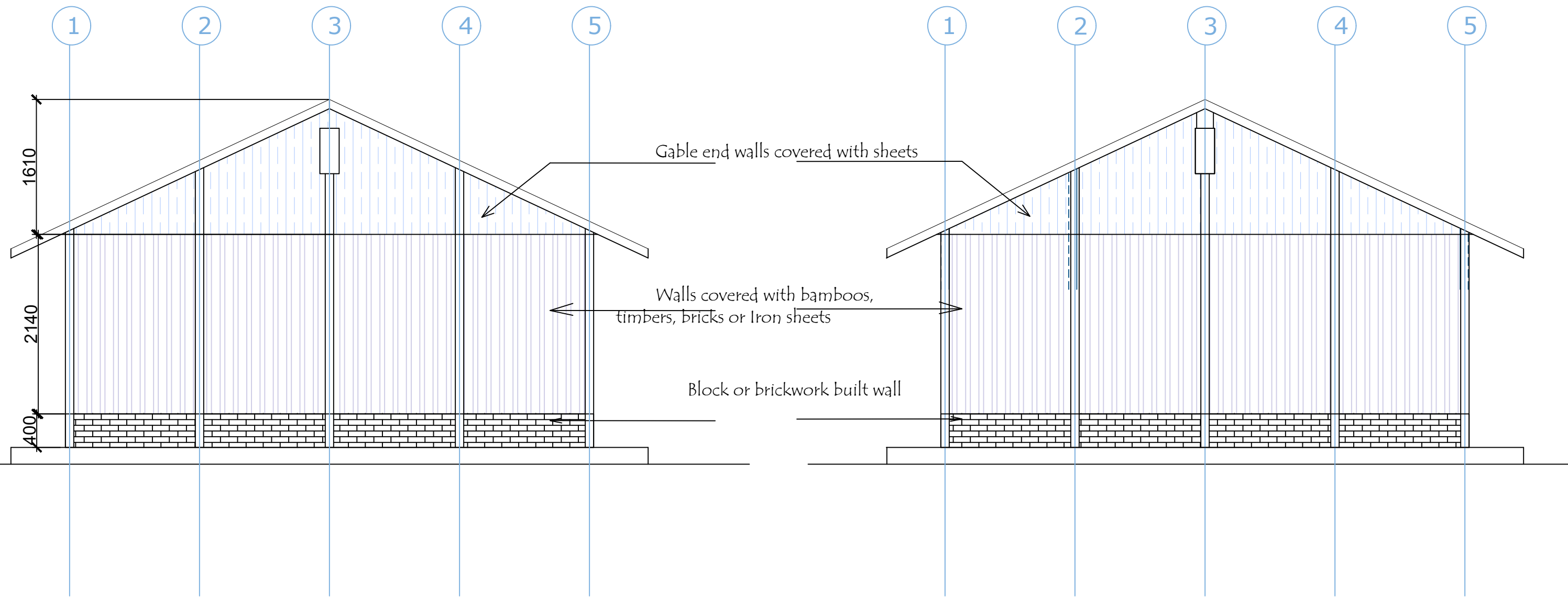
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Project Manager  
EDU/UNICEF/SSD

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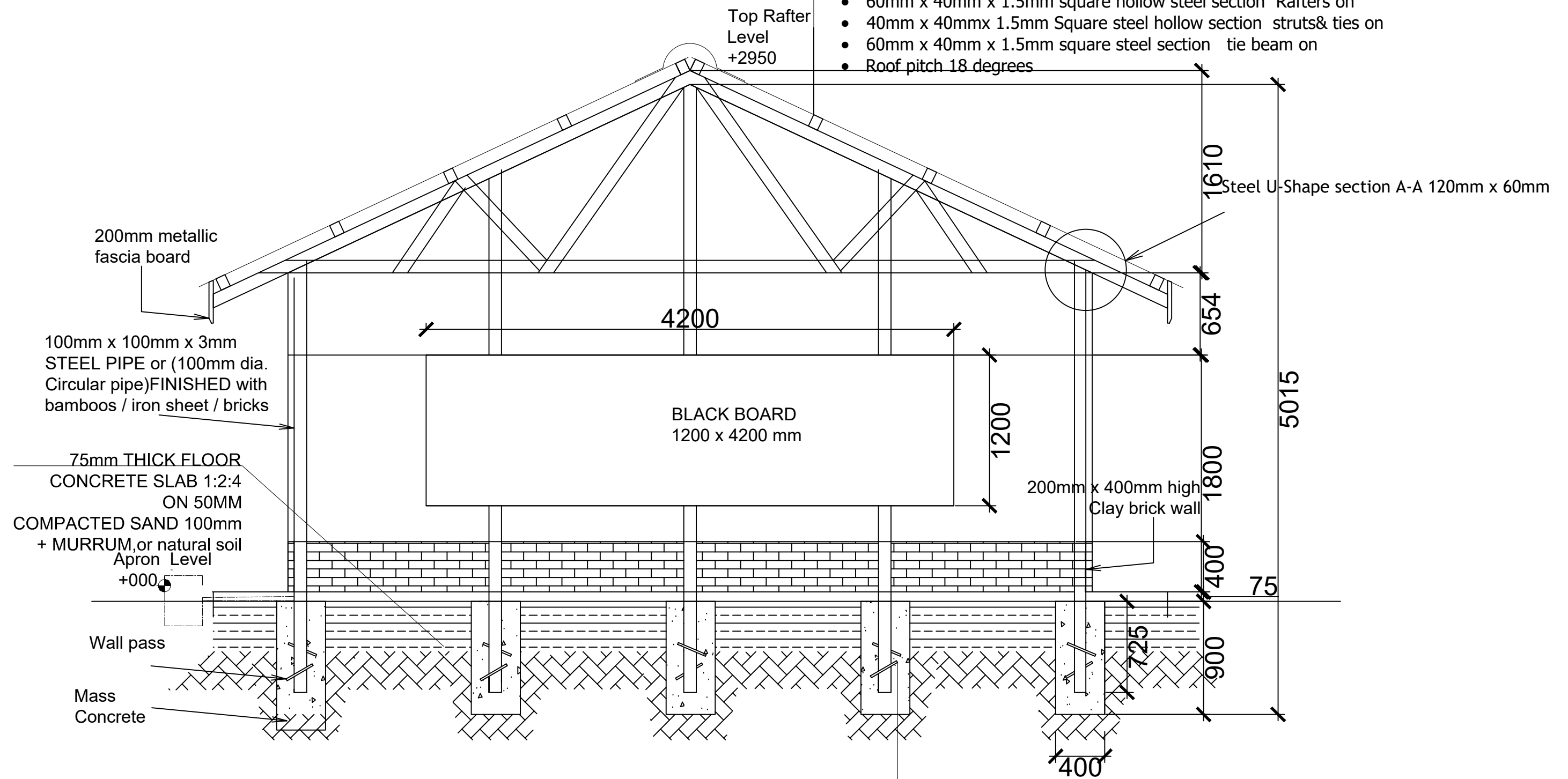
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**LEFT END ELEVATION**  
Scale 1:100

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**ROOF NOTES**

- G28 Corrugated colored roof sheets
- 40mm X 40mm X 1.5mm thick square section Steel Purlins on
- 60mm x 40mm x 1.5mm square hollow steel section Rafters on
- 40mm x 40mm x 1.5mm Square steel hollow section struts& ties on
- 60mm x 40mm x 1.5mm square steel section tie beam on
- Roof pitch 18 degrees



**SECTION A-A** scale 1:100

NOTE: IN LOCATION WITHOUT MURRAM LET'S USE THE NATURAL SOIL MIXED WITH SAND AND COMPACT TO REDUCE SHRINKAGE AND EXPANSION

**FOUNDATION NOTES**

- Floor screed finishing
- 20mm thick cement mortar screed 1:3
- 75mm thick RC C25 reinforced with BRC 8mm dia
- 50mm thick sand on,
- 200mm Well compacted wet murrum on,
- Well compacted natural soil



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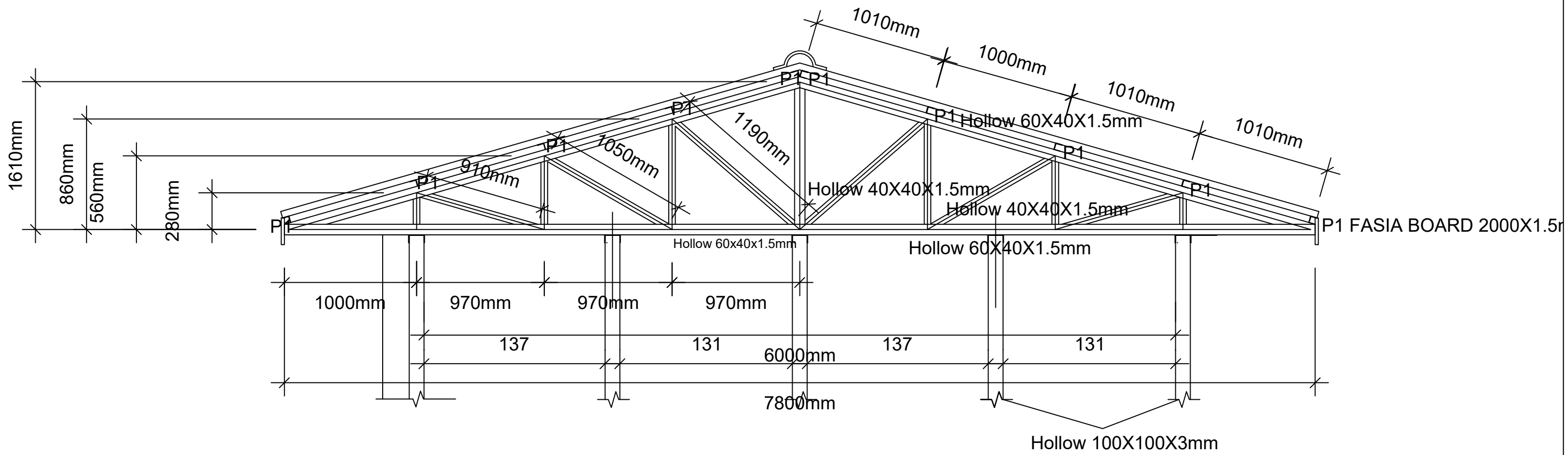
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TRUSS 1 DETAILS  
SCALE 1:30



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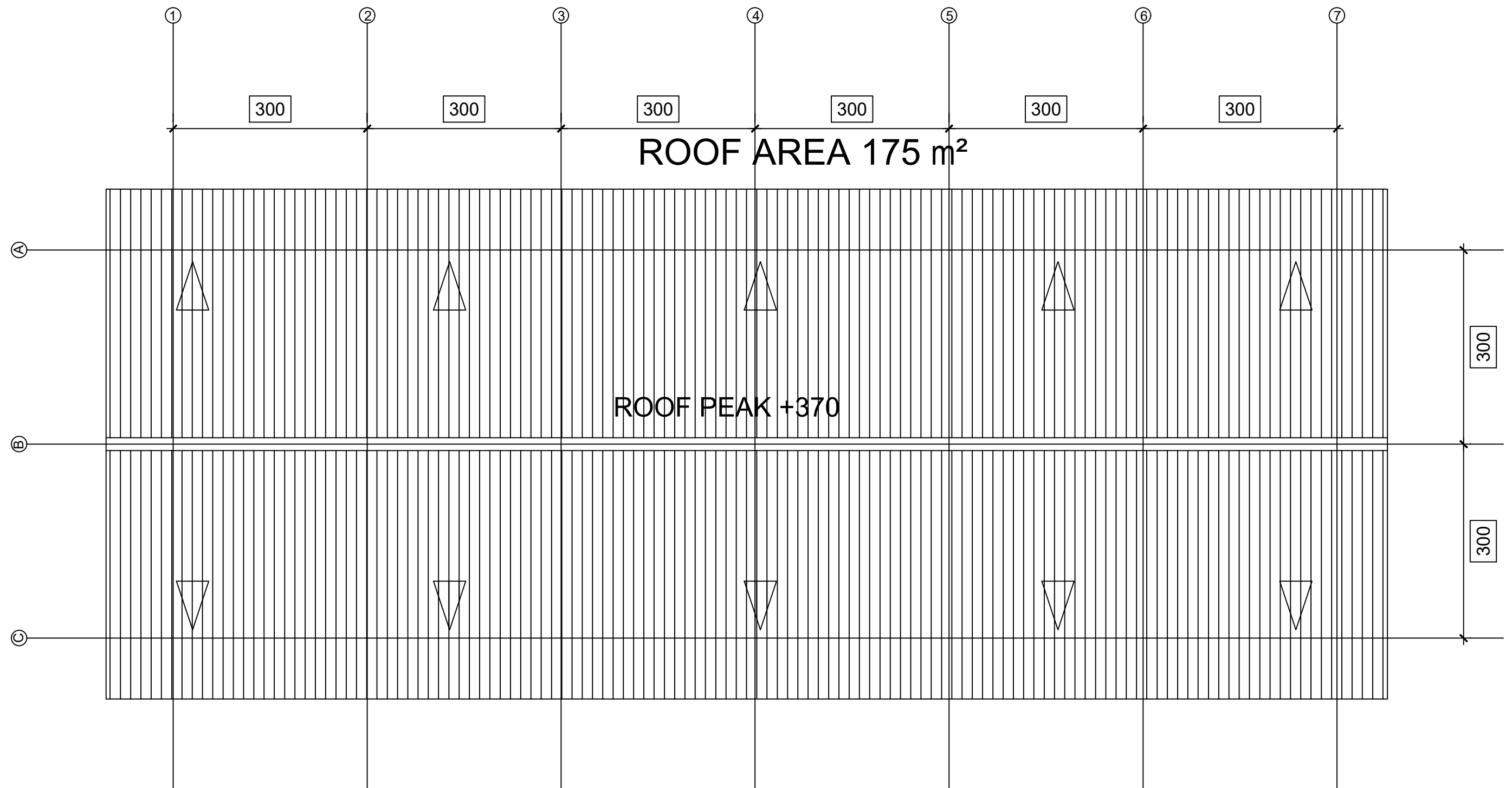
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ROOF ARCH.  
SCALE 1:75



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**PROPOSED\_TLS**

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SCHOOLS-CLASSROOM\_BK-2021.DWG

Project Manager

EDU/UNICEF/SSD

Project Owner

2020/EDUC/SSD

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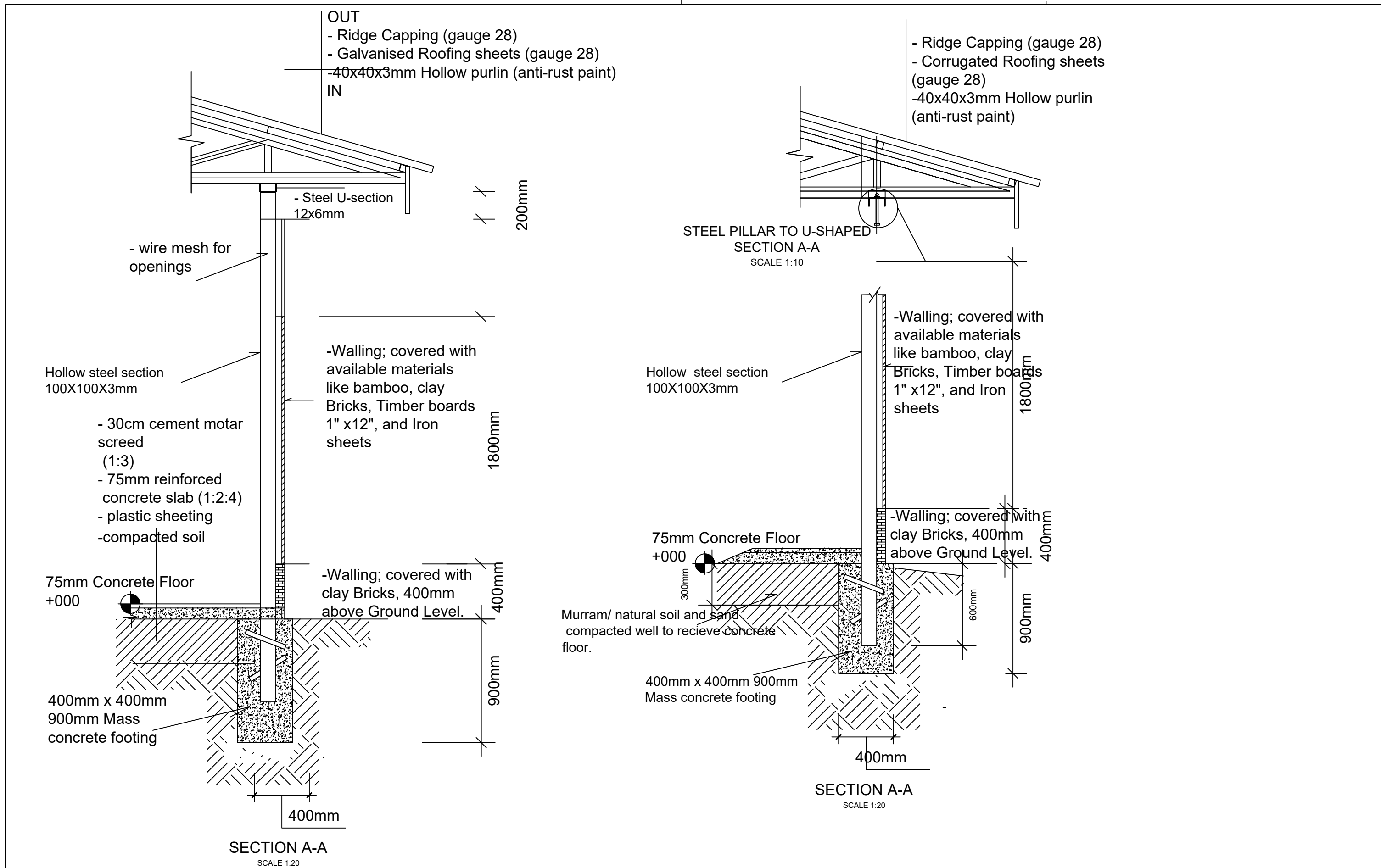
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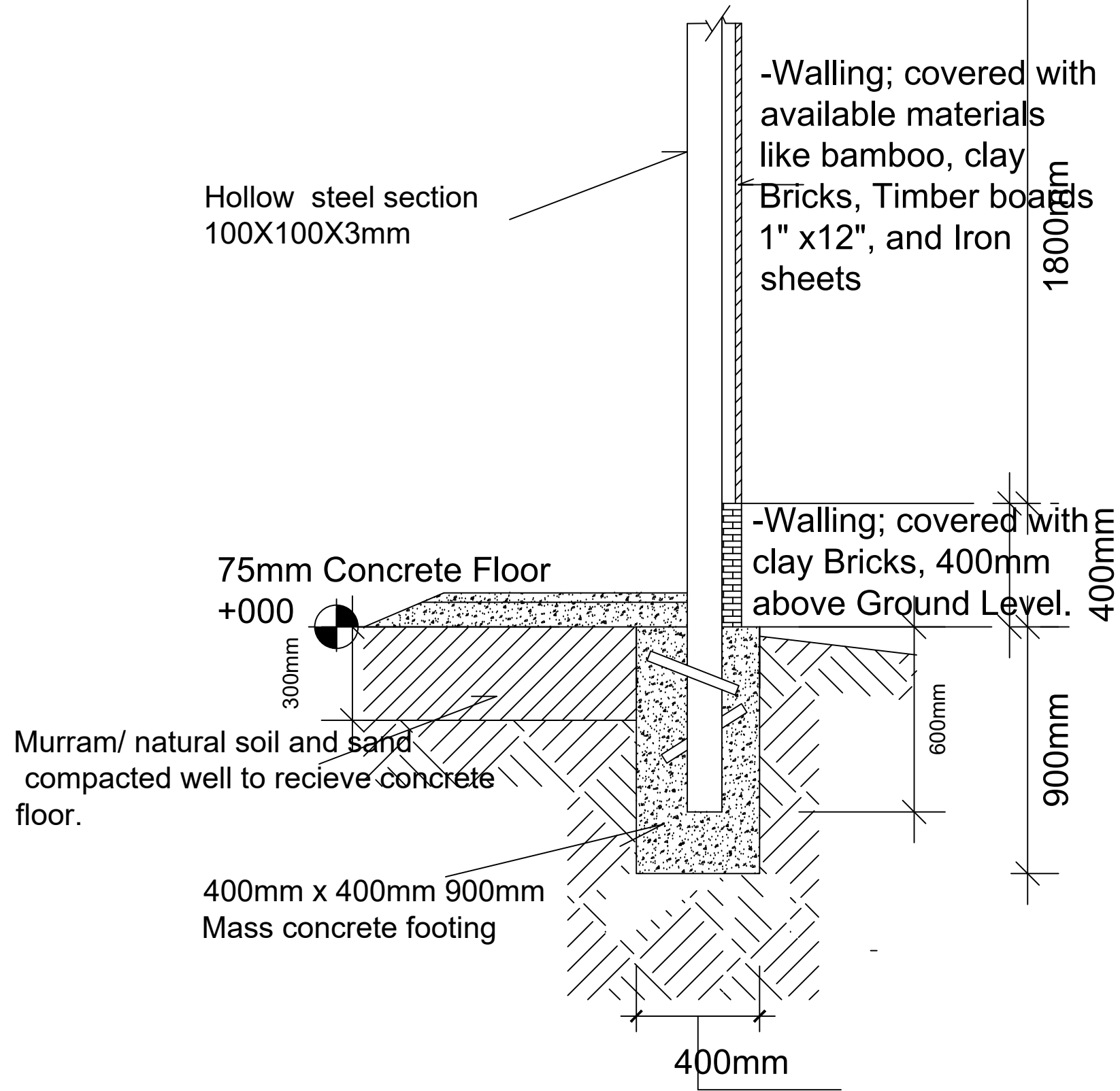
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**SECTION A-A**  
SCALE 1:20



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