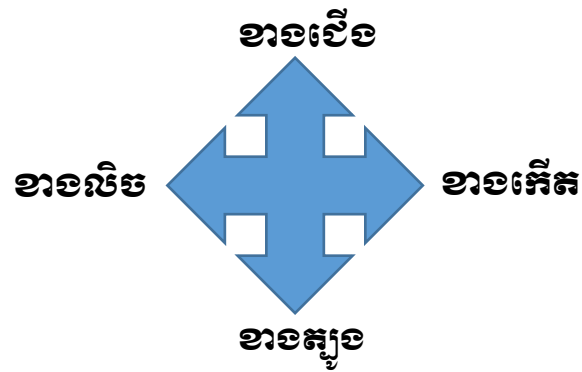
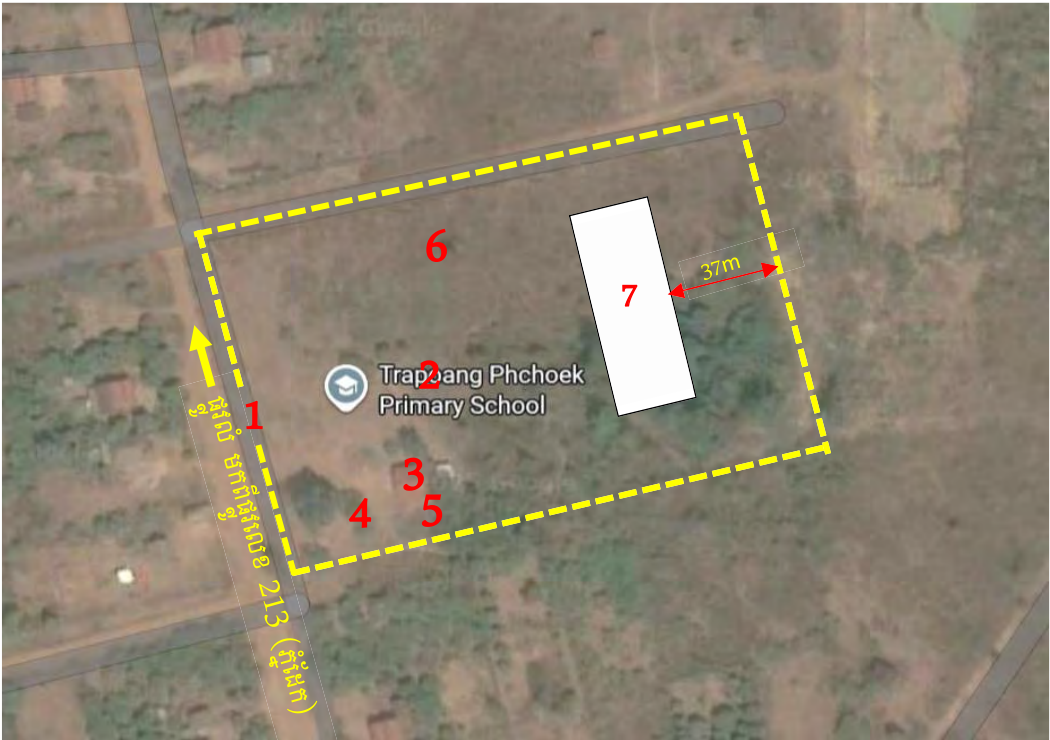


ផ្នែក  
ស្វាគមន៍

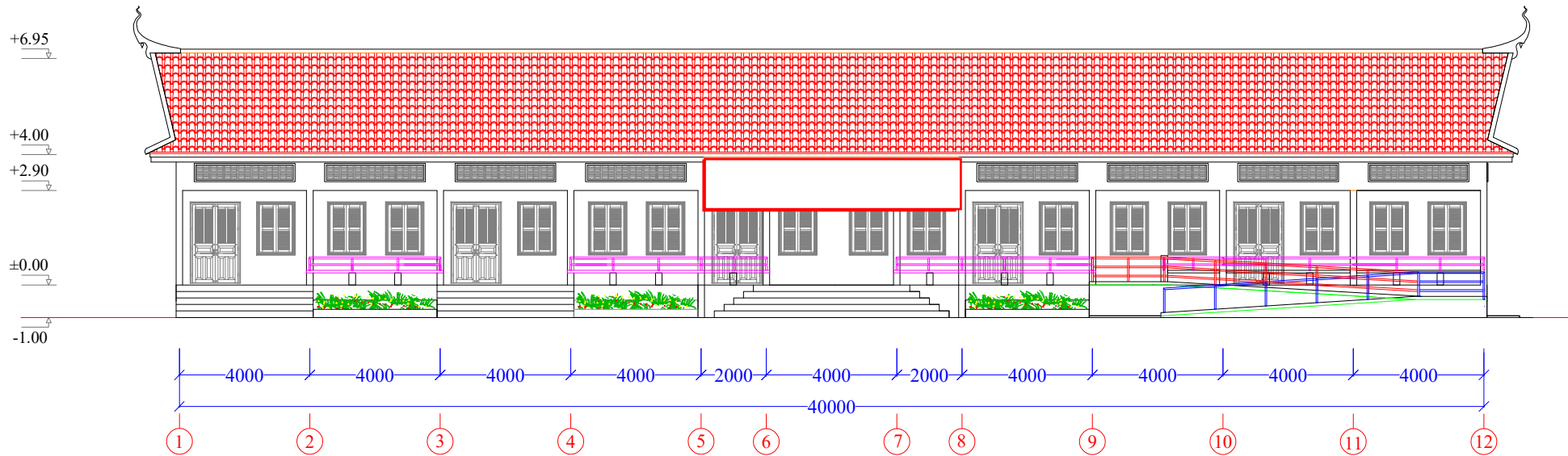
ARCHITECTURAL DRAWING

**ចំណាំ៖**

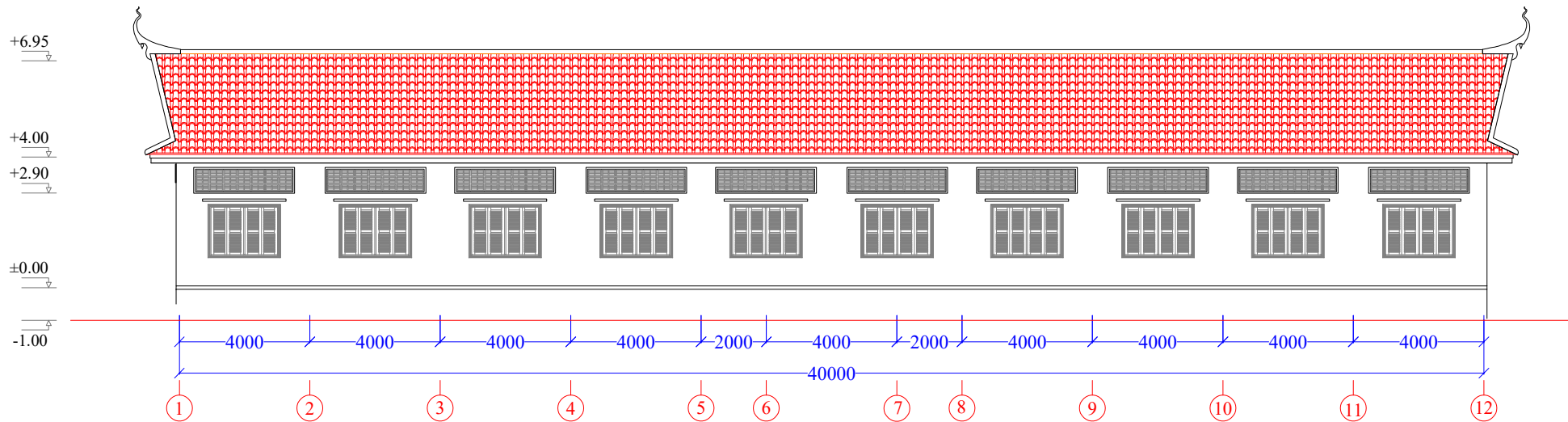
- ---- : ព្រំដី (100\*150)
- (1): ច្រកចូល
- (2): ដងទងជាតិចាស់
- (3): អគារចាស់ធ្វើពីឈើ មានពបន្ទប់ និងមានសភាព ចាស់ ទ្រុឌទ្រោម និងមានសំយ៉ាបចំហៀងដាក់តុសម្រាប់សិស្សរៀន
- (4): ស៊ីទែន ចម្រោះទឹកស្អាត
- (5): បន្ទប់ទឹក (ប្រើប្រាស់បាន)
- (6): បន្ទប់ទឹក (ប្រើប្រាស់បាន)
- (7): អគារសិក្សាថ្មី ធ្វើពីបេតុង ប្រក់ក្បឿង ទំហំ (40\*9)



ទីតាំងសាលាបឋមសិក្សា ត្រពាំងថ្នើក (ខេត្តព្រះវិហារ)

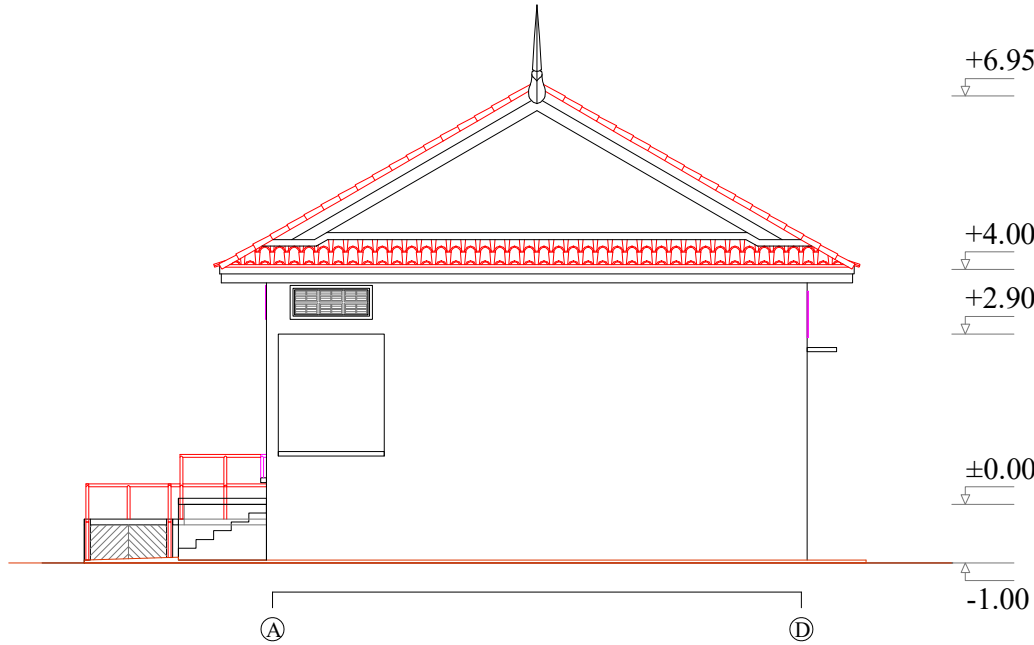


( Front Elevation )

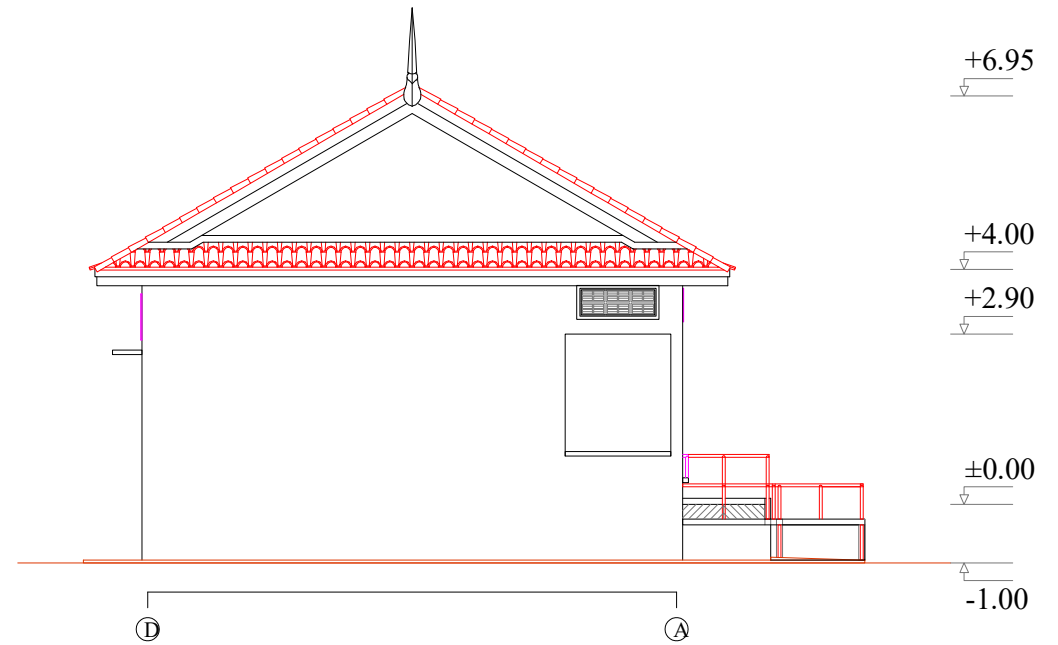


( Rear Elevation )

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-16
				DRAWING TITLE : FRONT AND REAR ELEVATION		SHEET N°:



RIGHT ELEVATION

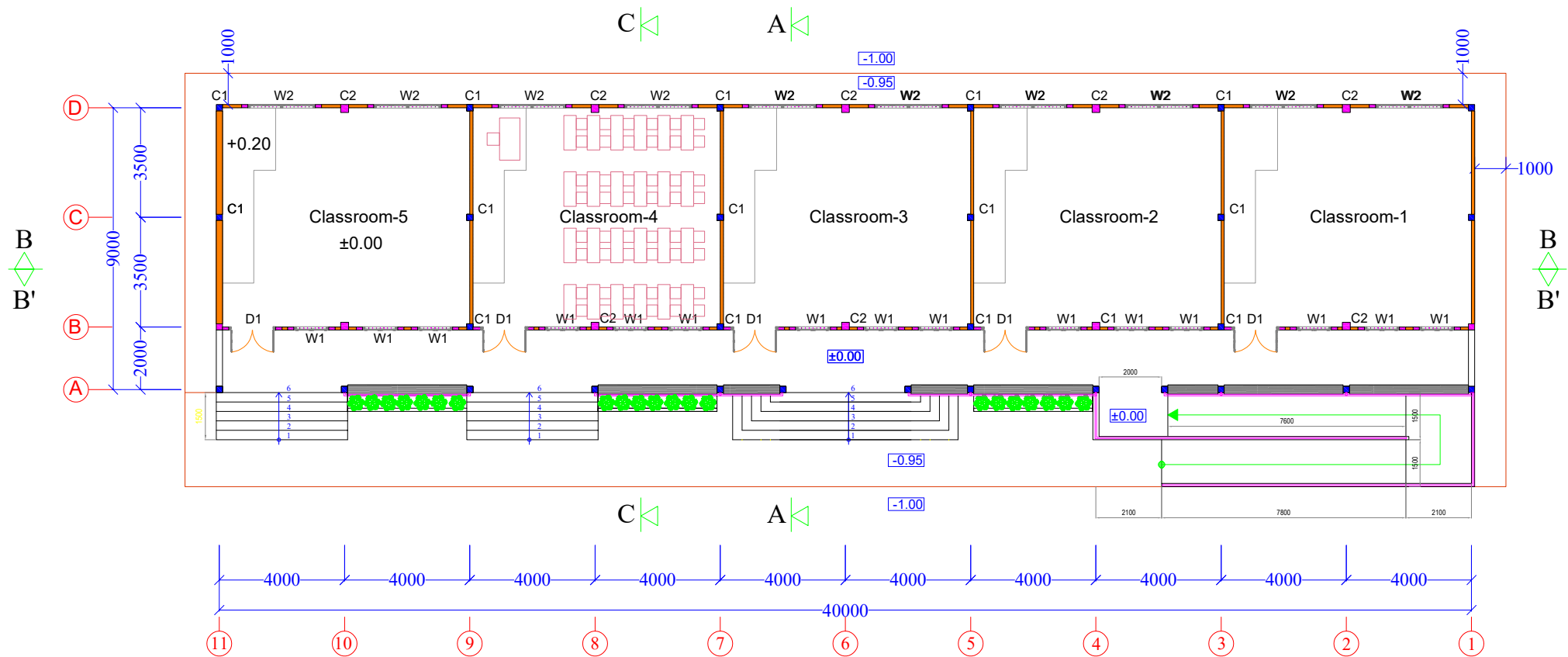


LEFT ELEVATION

APPROVED BY:  
DIRECTOR OF DOC

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:	DRAWING TITLE : RIGHT AND LEFT ELEVATION	SHEETS:	A-16
					SHEET Nº:	A-03





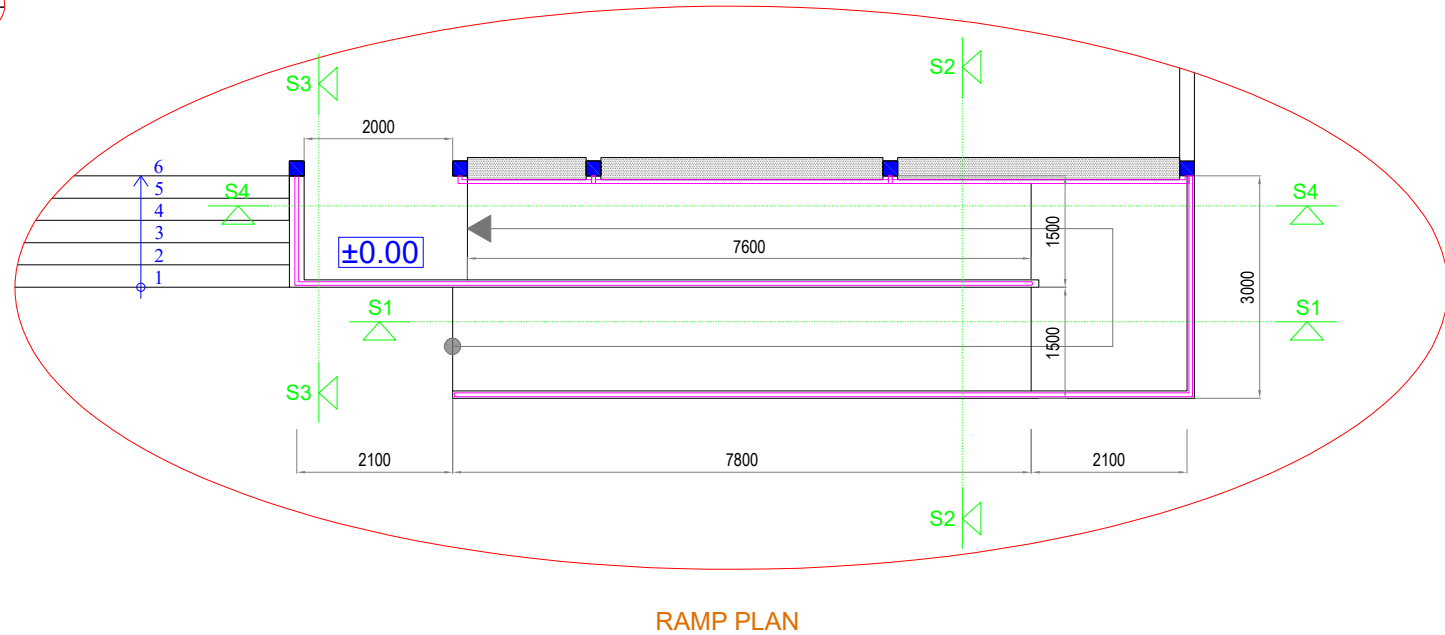
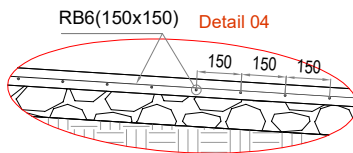
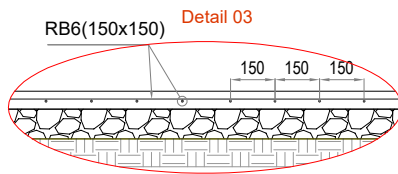
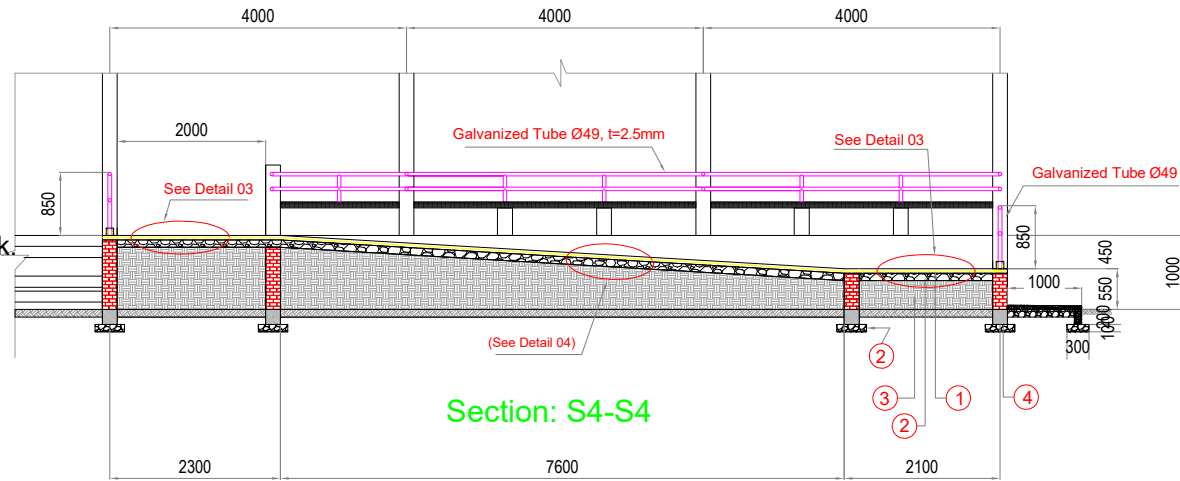
APPROVED BY:  
DIRECTOR OF DOC

Floor Plan

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-16
				DRAWING TITLE : FLOOR PLAN	SHEET Nº:	A-04

Note:

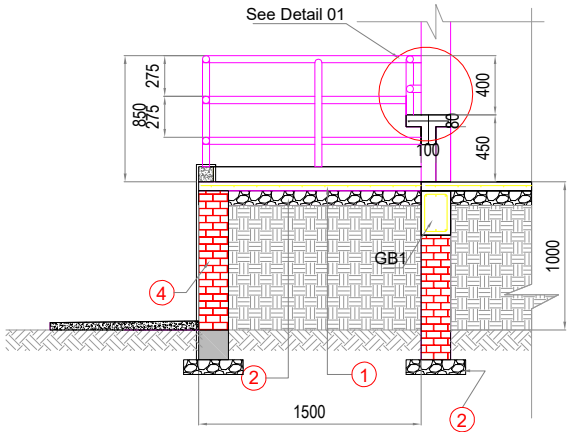
- ① -RC. Ramp Slab, 60mm thk.
- ② -Crushed Stone 4x6 Compacted, 100mm thk.
- ③ -Soil back fill and Compacted
- ④ -Solid brick Retaining wall for Ramp, 200mm thk.



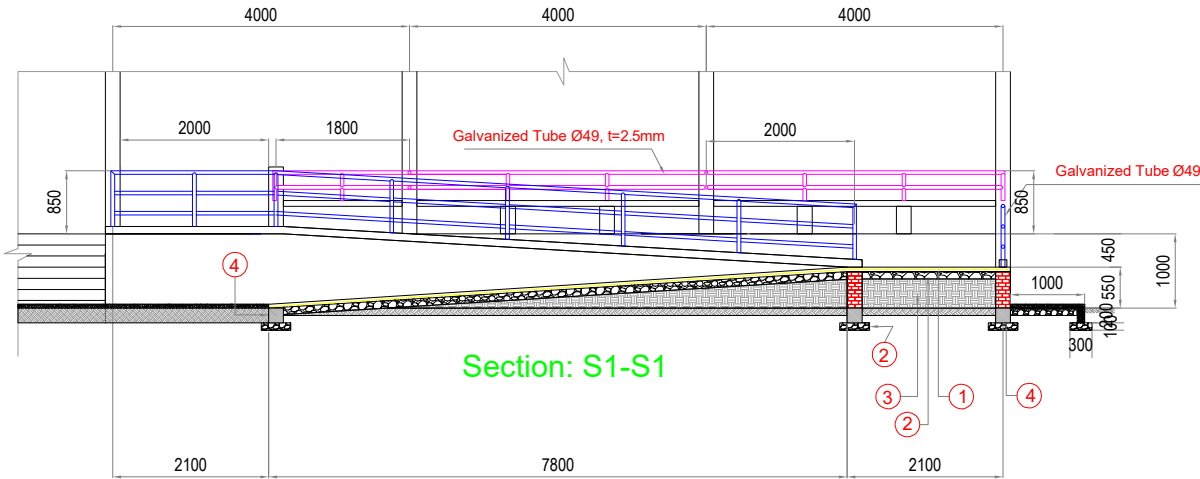
MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-17
		DRAWING TITLE : DETAIL RAMP		SHEET Nº:	A-05	

Note:

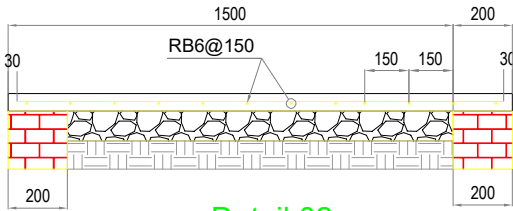
- ① -RC. Ramp Slab, 60mm thk.
- ② -Crushed Stone 4x6 Compacted, 100mm thk.
- ③ -Soil back fill and Compacted
- ④ -Solid brick Retaining wall for Ramp, 200mm thk.



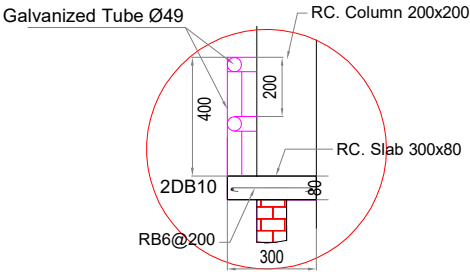
Section: S3-S3



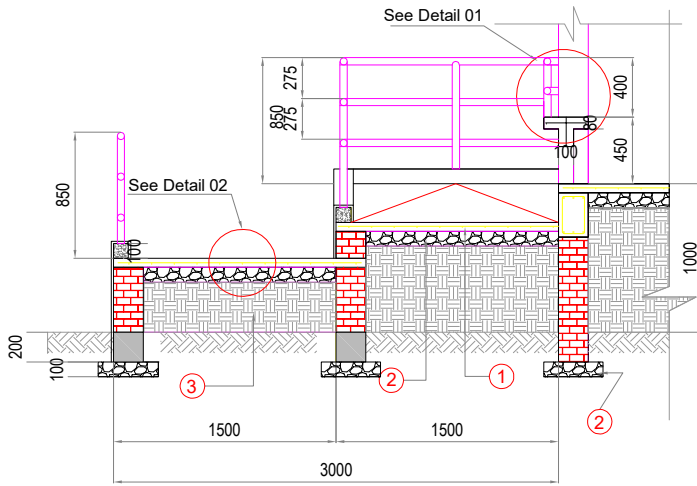
Section: S1-S1



Detail 02

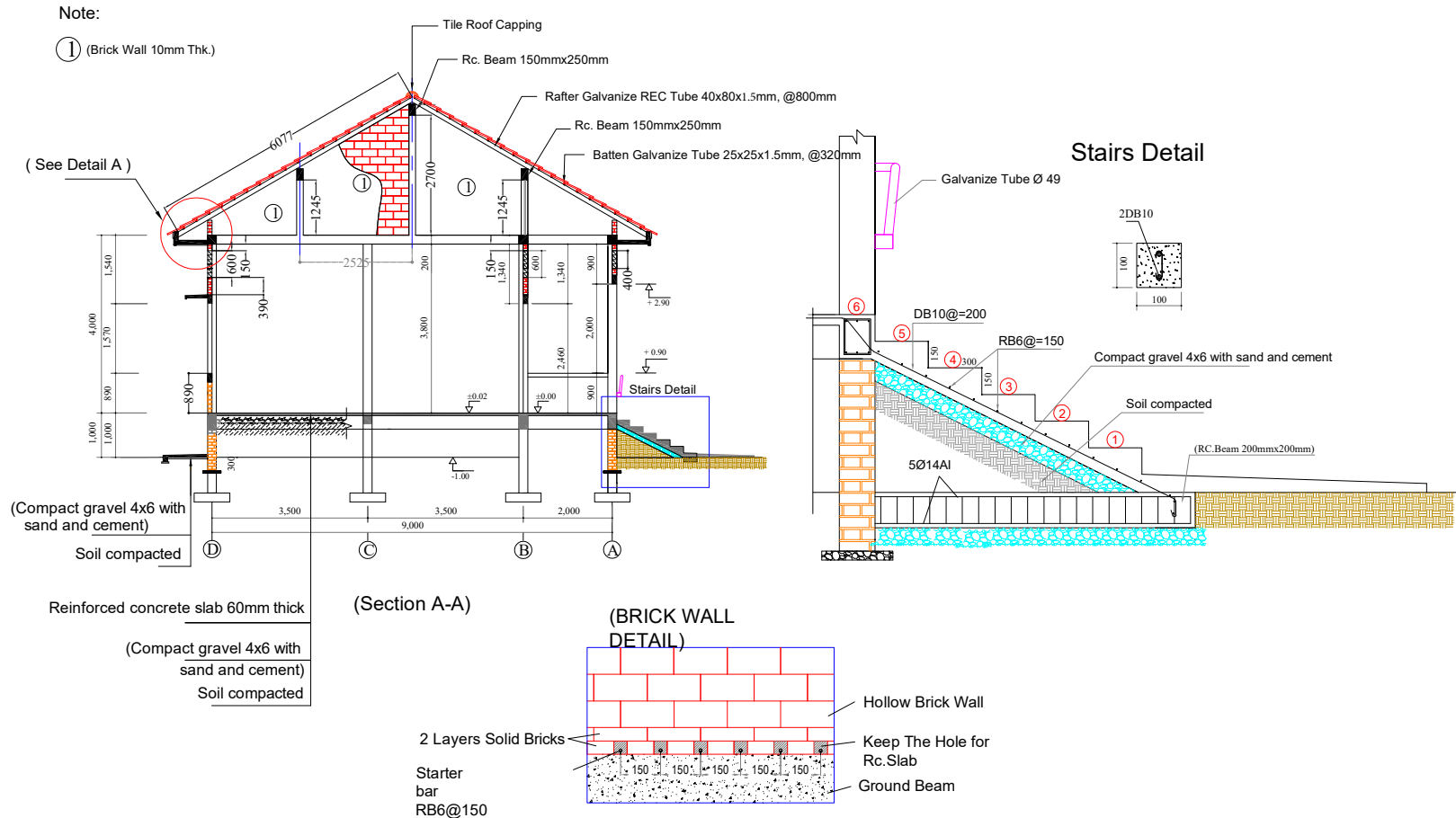


Detail 01

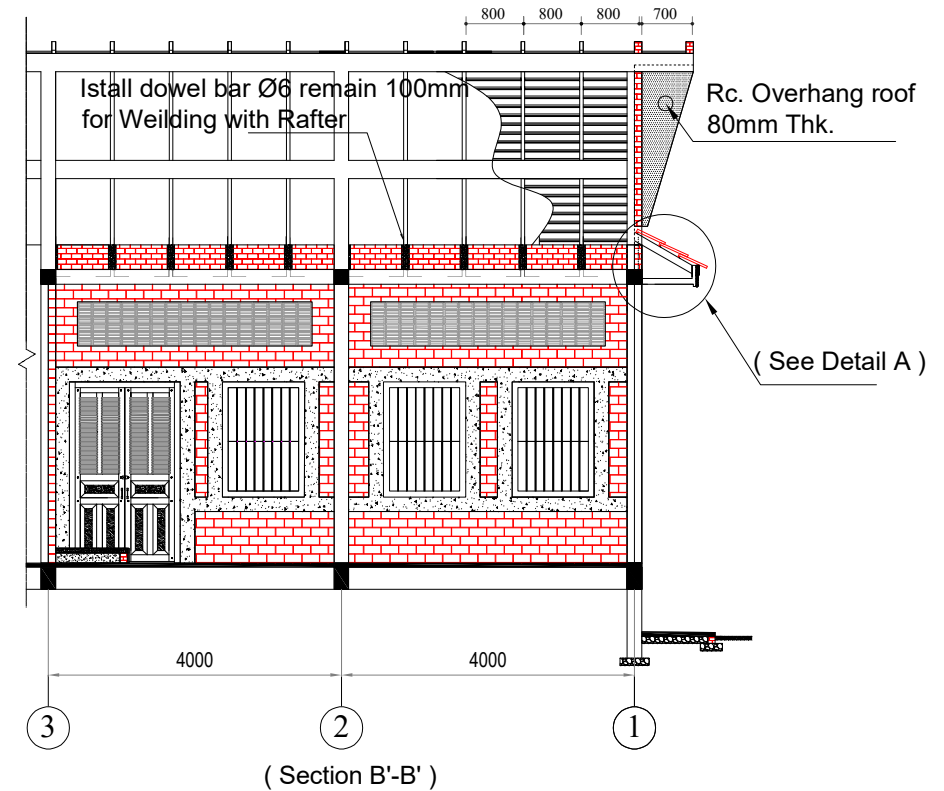
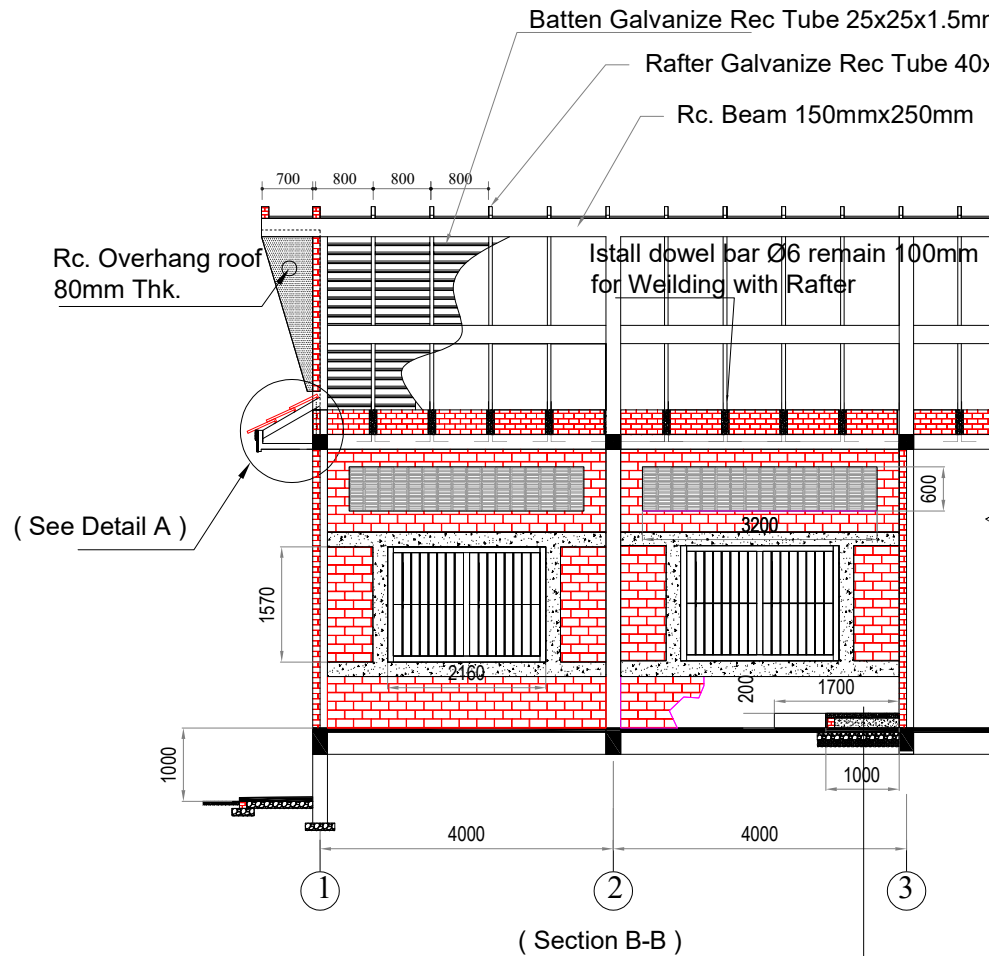


Section: S2-S2

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-17
						DRAWING TITLE : DETAIL RAMP



MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT :	SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:			SHEETS:	A-17
				DRAWING TITLE :	SECTION B-B	SHEET N°:	A-07



**Note :**

- All steel roof members must be cleaned and painted with two coats of rust proof paint.
- Rafter are welded to steel bar DB10 connected to the beam reinforcement.

Reinforced concrete slab 50mm thick

Compacted sand

Reinforced concrete slab 60mm thick

(Compact gravel 4x6 with sand and cement)

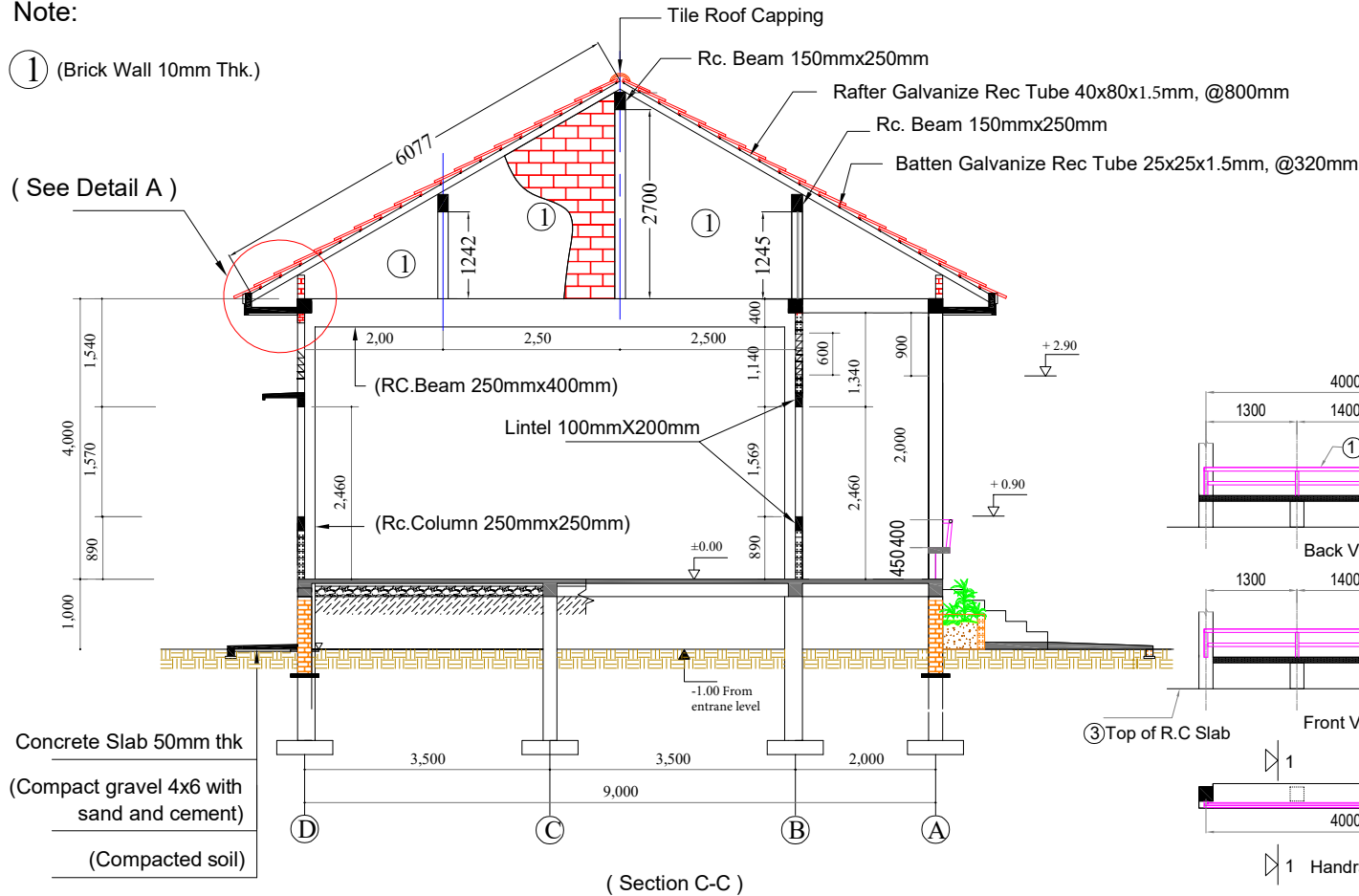
Soil compacted

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-16
				DRAWING TITLE : SECTION B-B		SHEET N°:

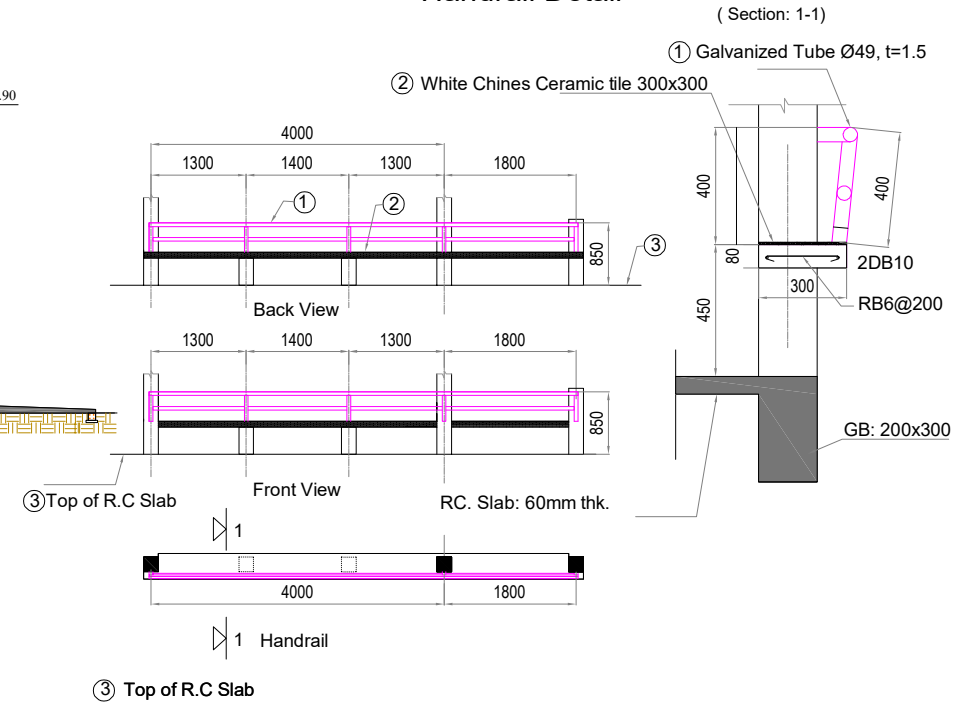
Note:

① (Brick Wall 10mm Thk.)

( See Detail A )



## Handrail Detail

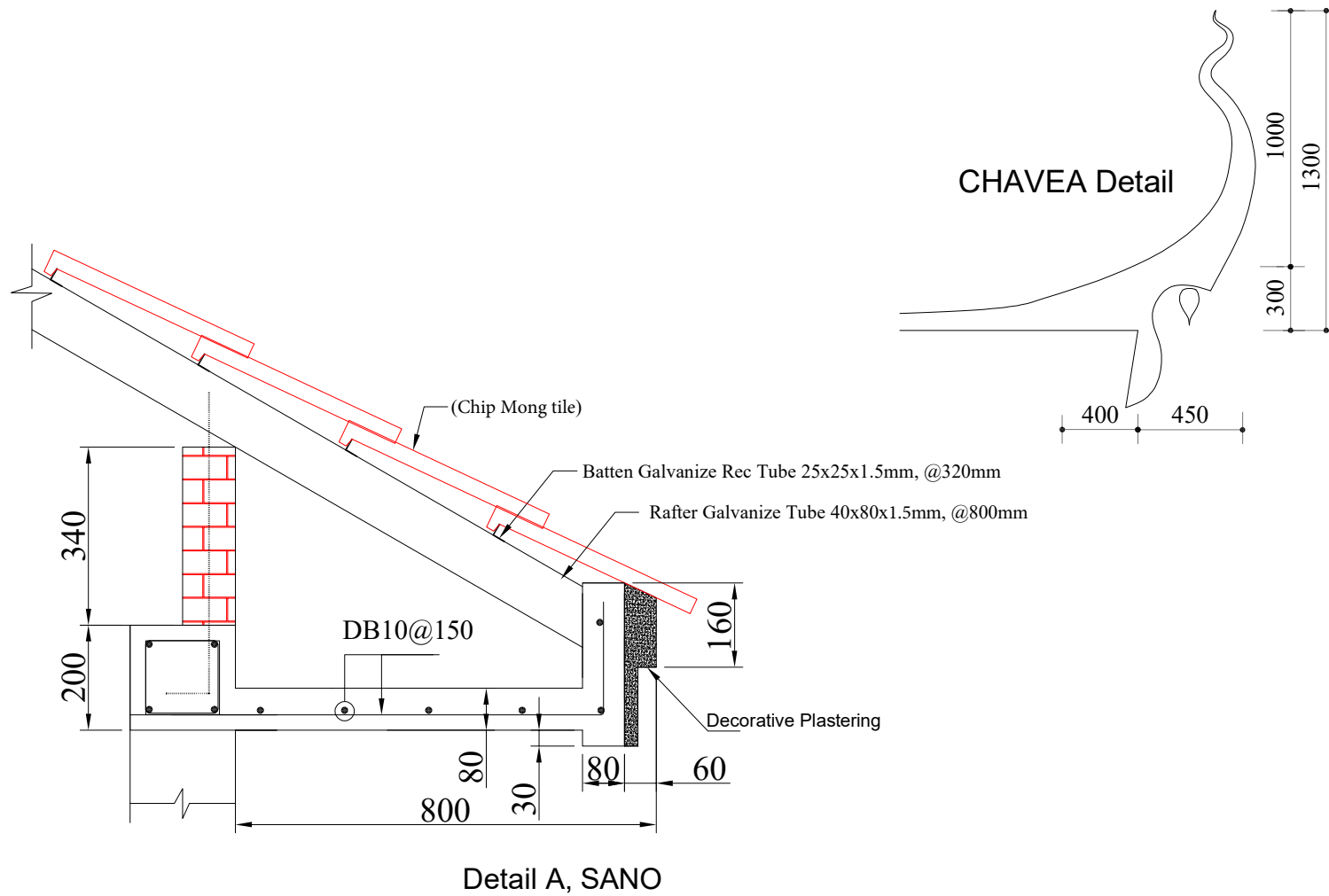


Note :

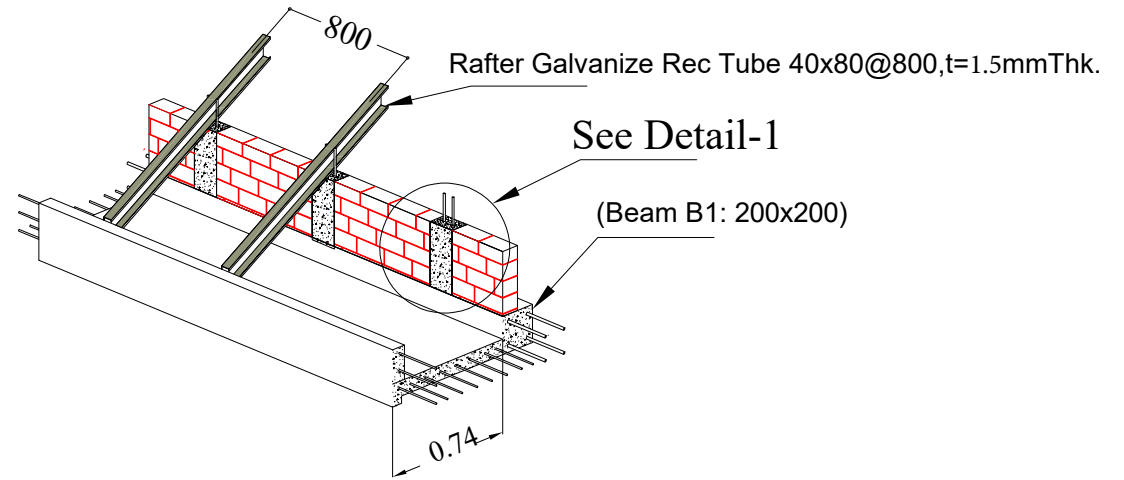
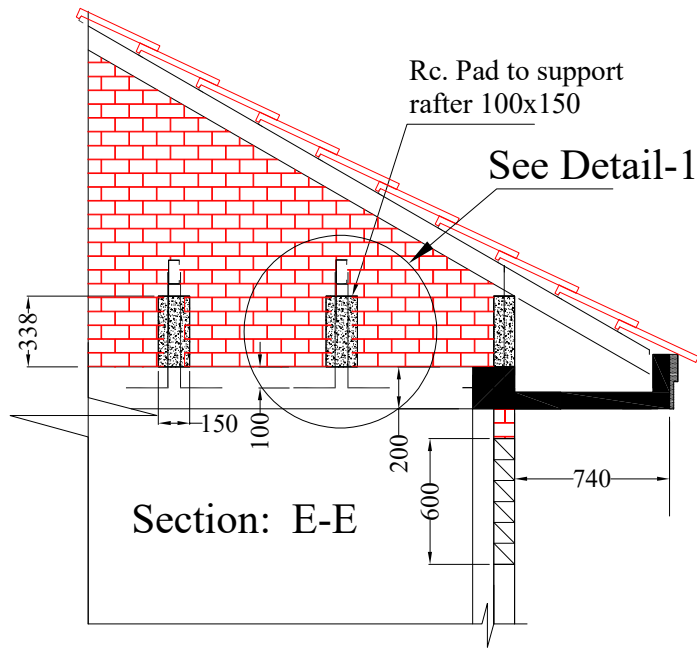
- All steel roof members must be cleaned and painted with two coats of rust proof paint.
- Rafter are welded to steel bar DB10 connected to the beam reinforcement.
- Level -1.00m take from entrance level

APPROVED BY:  
DIRECTOR OF DOC

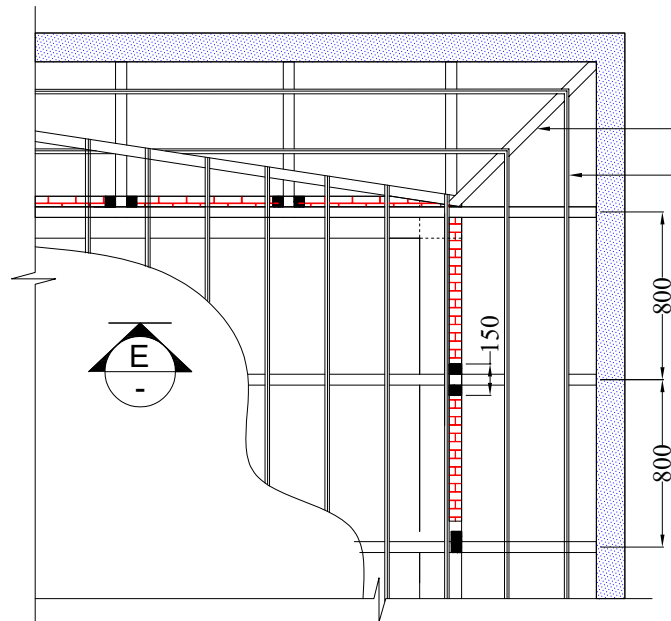
MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-16
				DRAWING TITLE : SECTION C-C AND HANDRAIL DETAILS		SHEET Nº:



MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-17
				DRAWING TITLE : SECTION B-B		SHEET Nº:

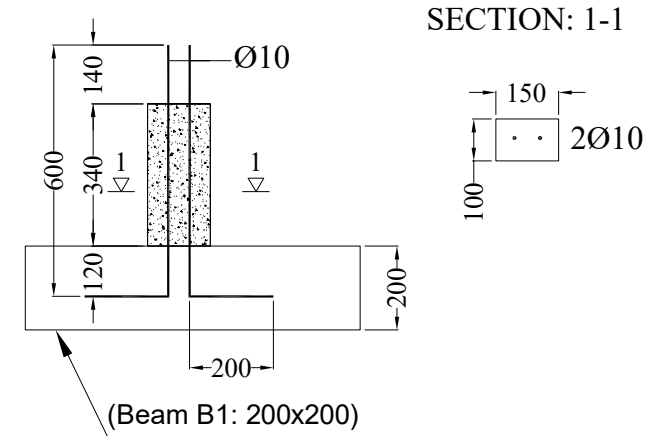


Detail-1

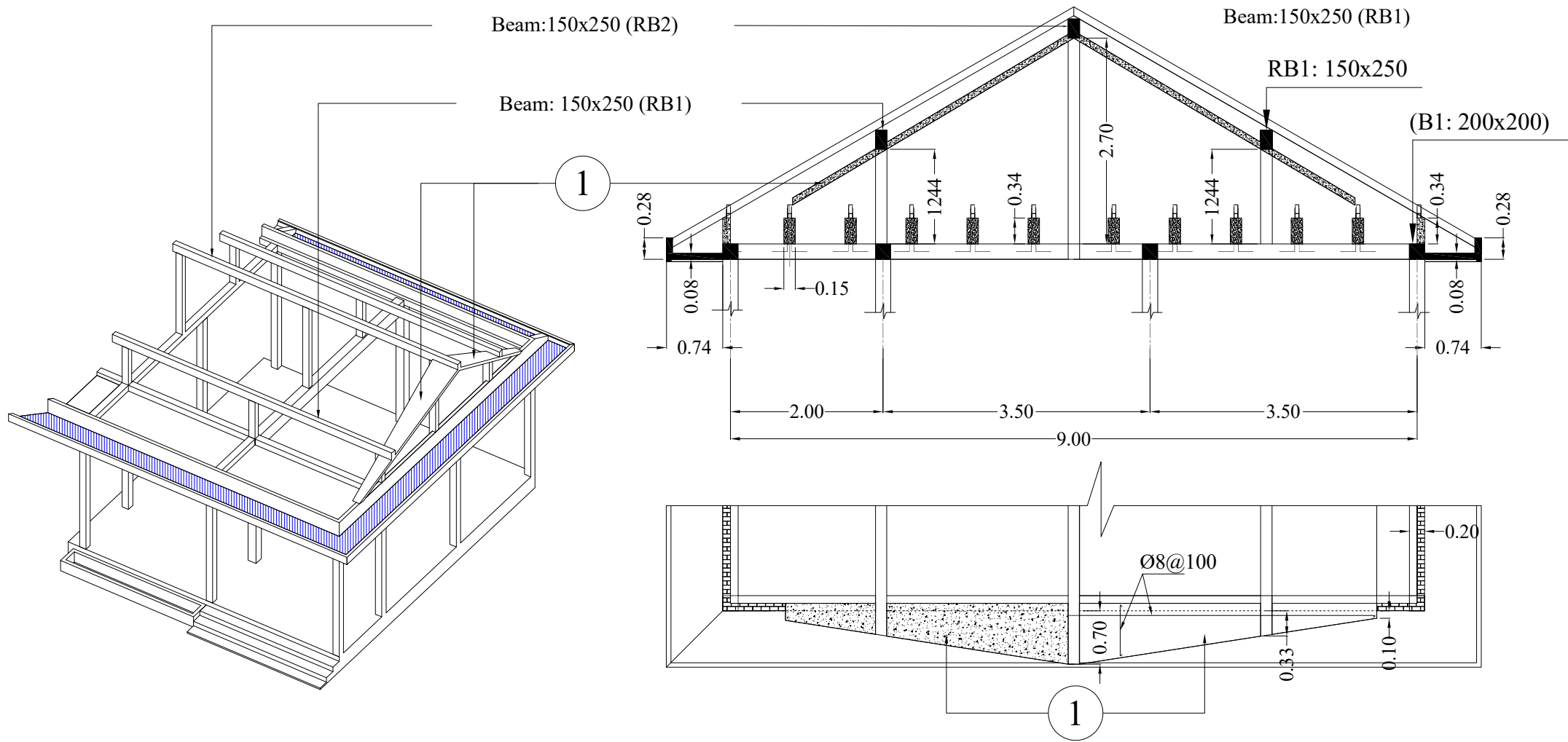


Rafter 40x80x1.5mm, @800mm

Batten 25x25x1.5mm, @320mm



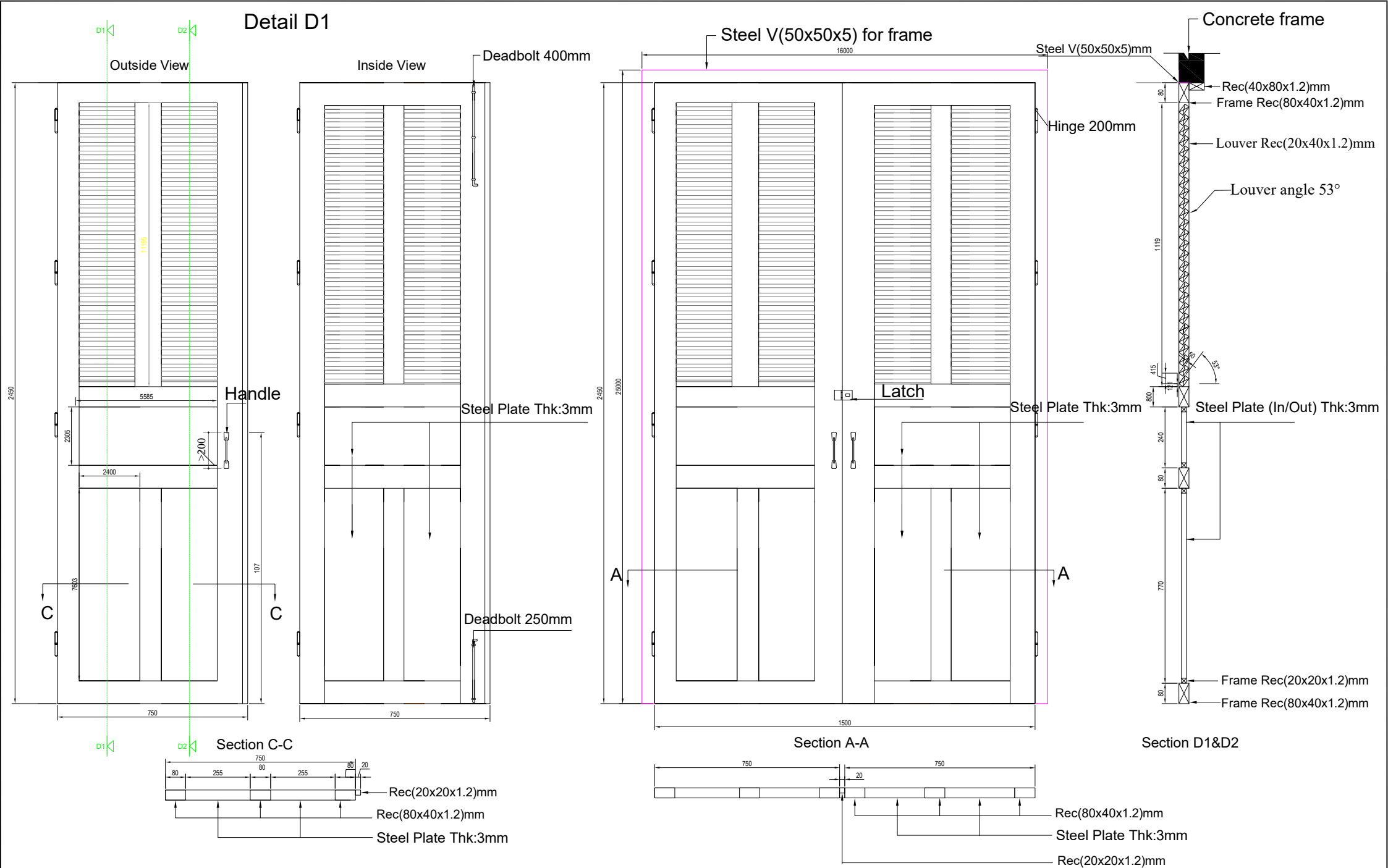




1 Rc. Overhang roof 80mm Thk.

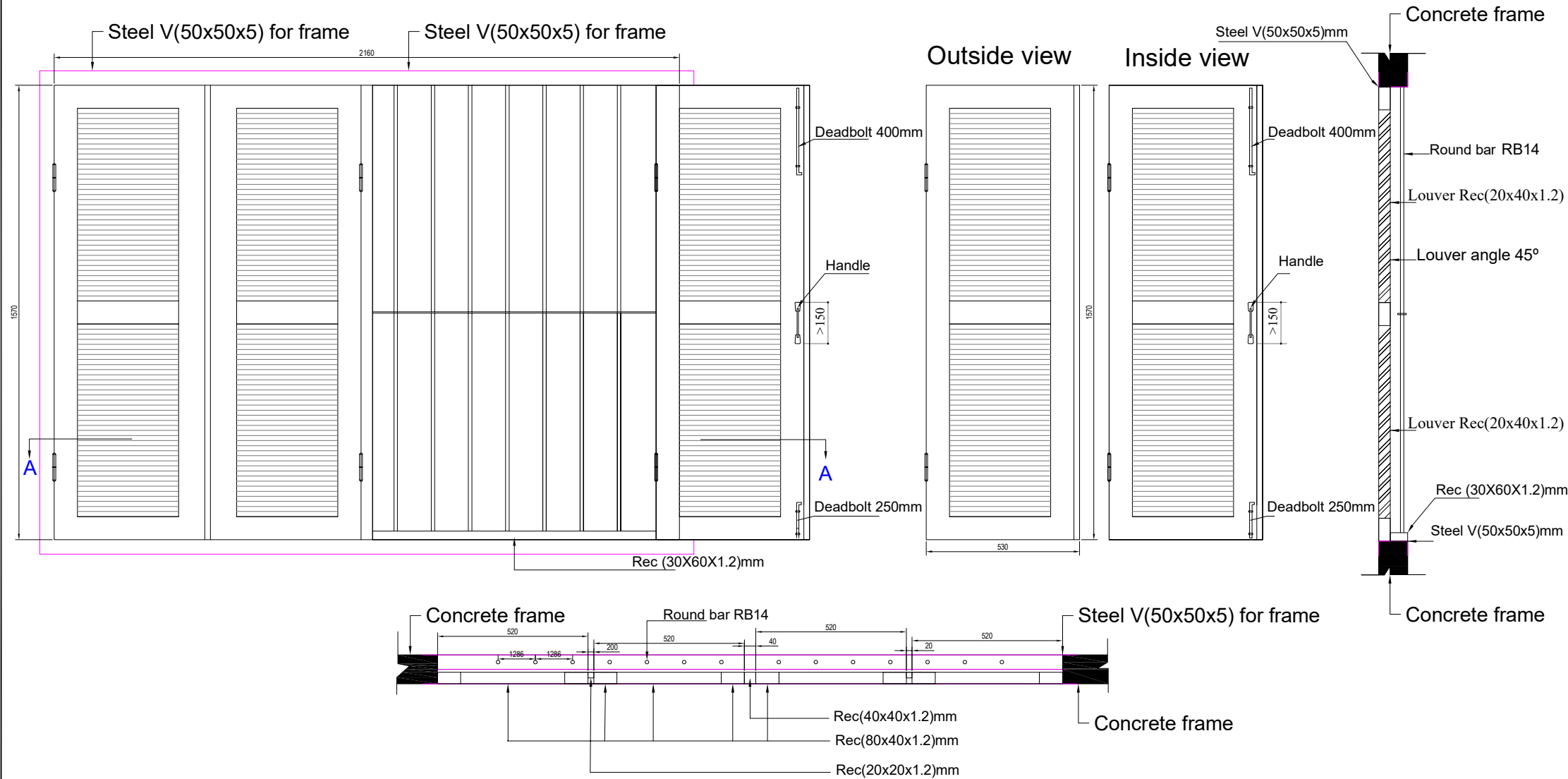
Note:  
Rebar of overhang roof Ø8@100

Detail D1



MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-17
					DRAWING TITLE : DOOR D1 DETAIL	SHEET N°:

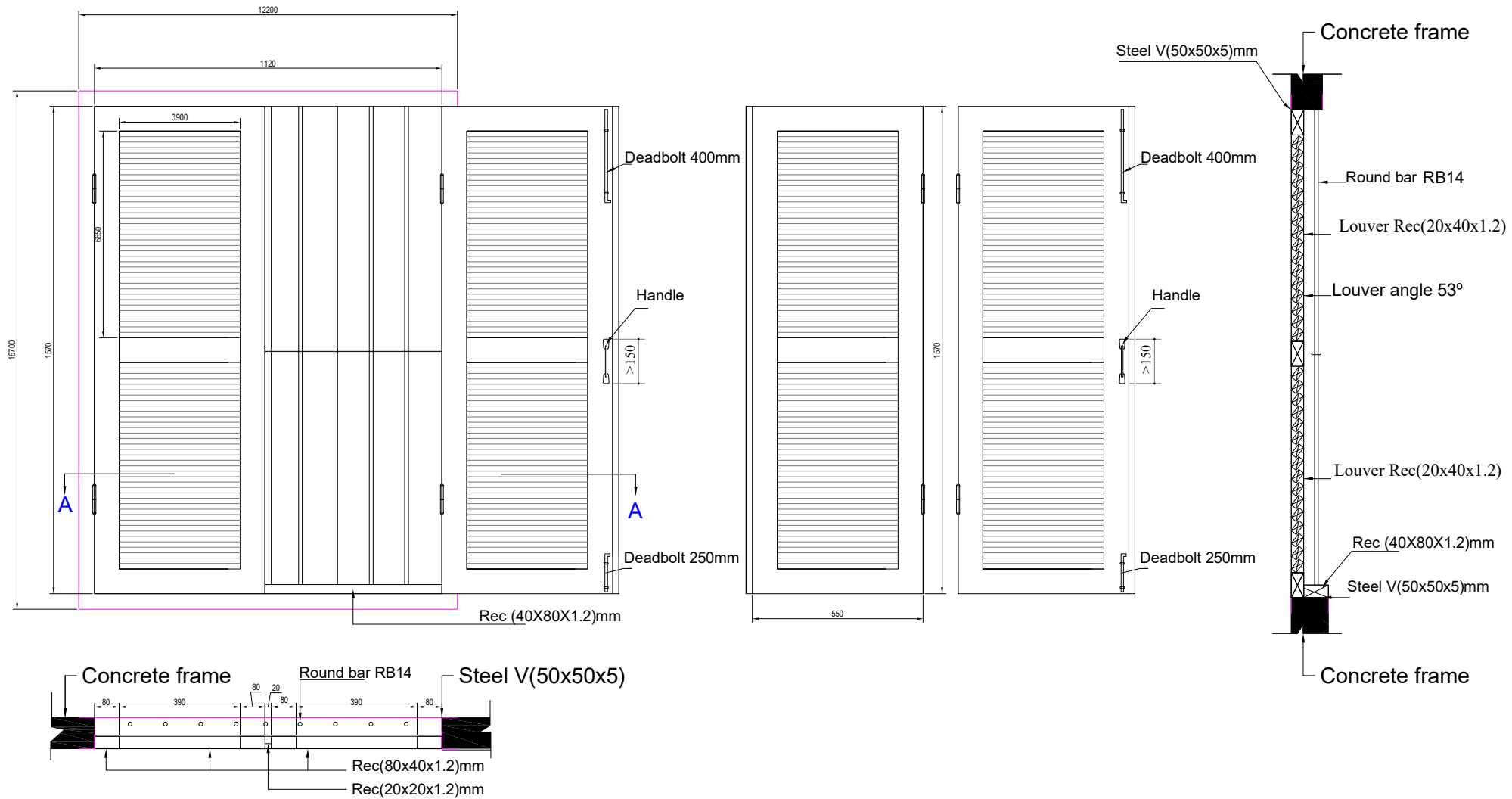
Window detail W2



Section A-A

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-17
		DRAWING TITLE : WINDOW W1 DETAIL		SHEET Nº:	A-14	

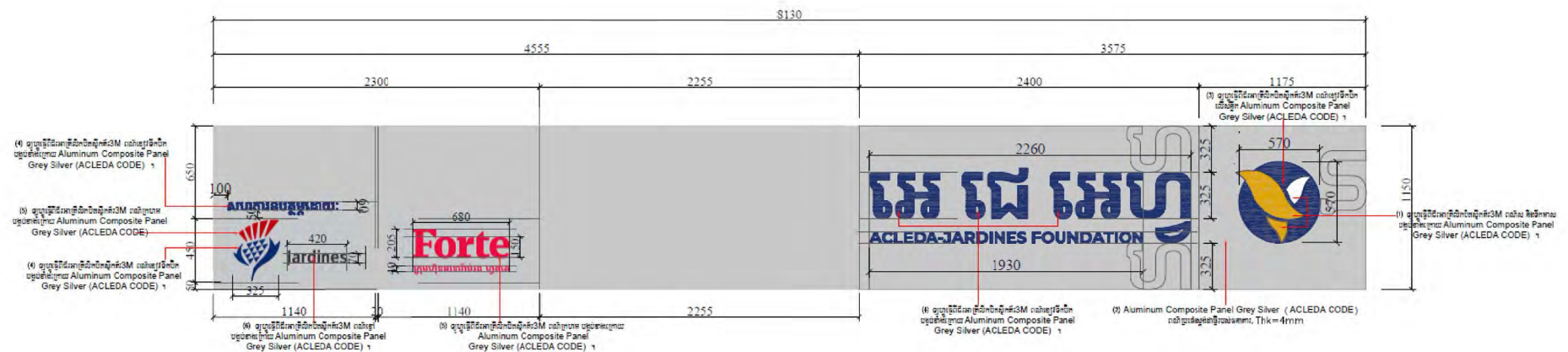
Window detail W1



Section A-A

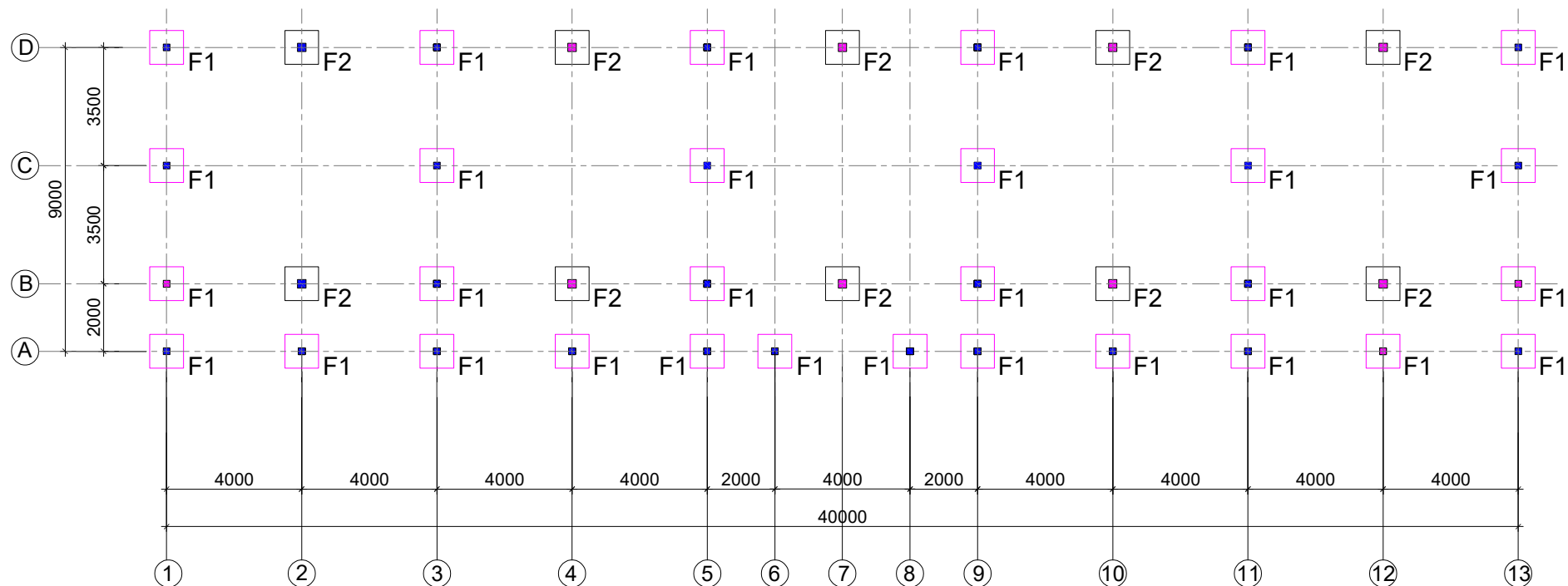
MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	A-17
				DRAWING TITLE : WINDOW W2 DETAIL	SHEET Nº:	A-15

# Signboard



MINISTRY OF EDUCATION, YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE: NO
		CHECKED BY:	DRAWN BY:		SHEETS: A-17
		DRAWING TITLE : Signboard			SHEET NO: A-17

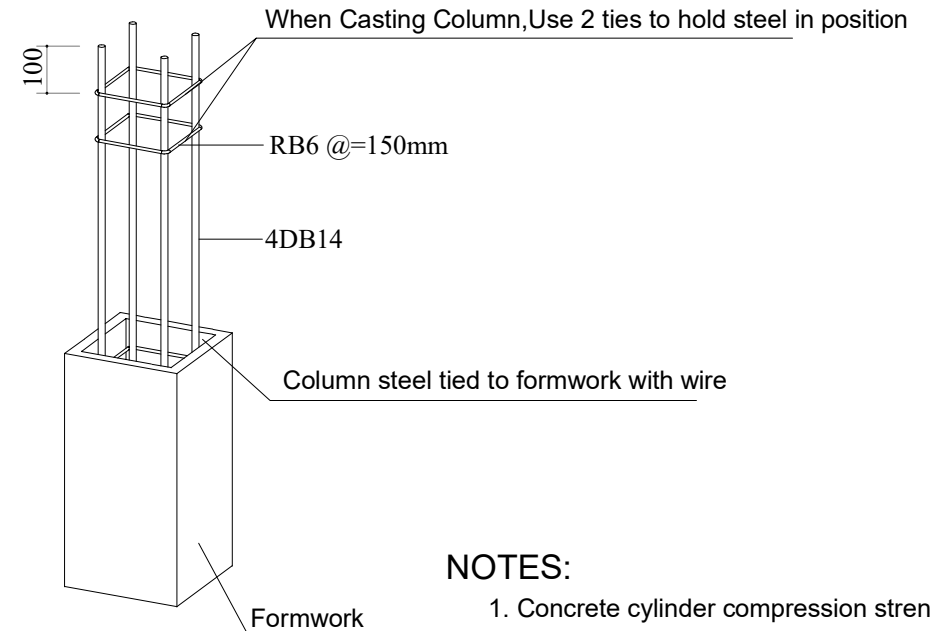
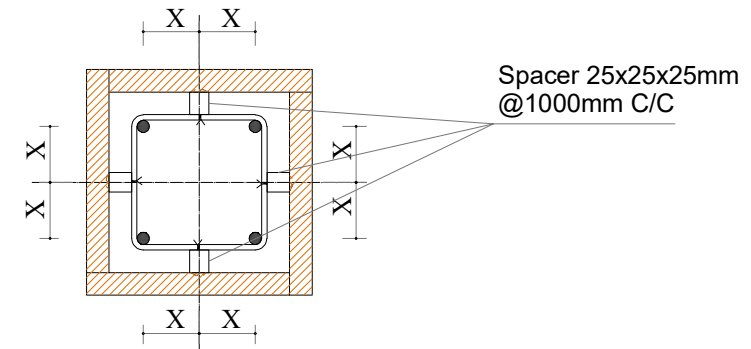
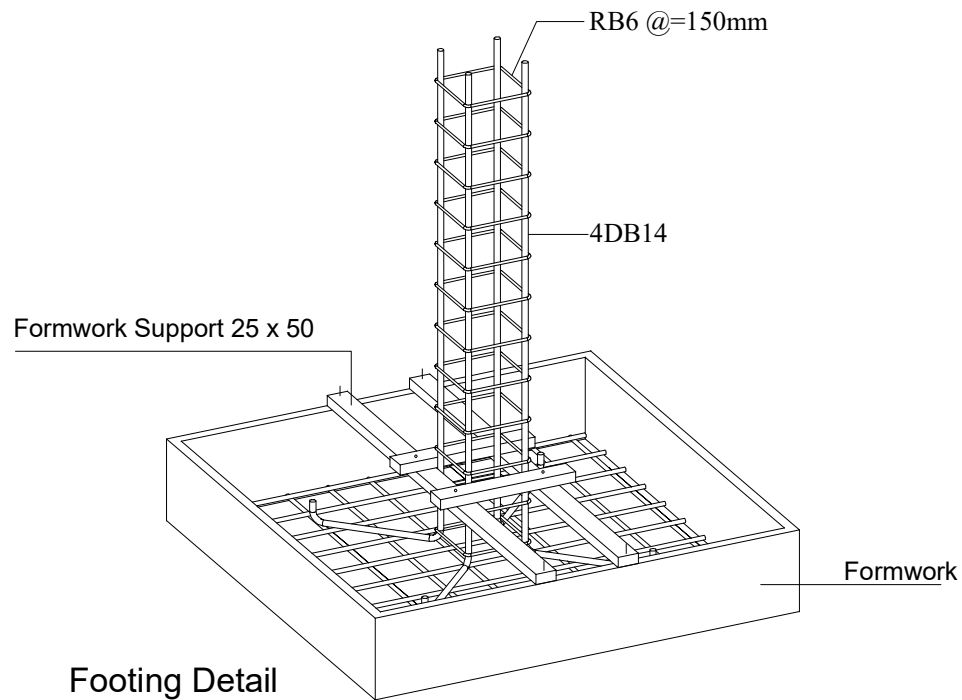
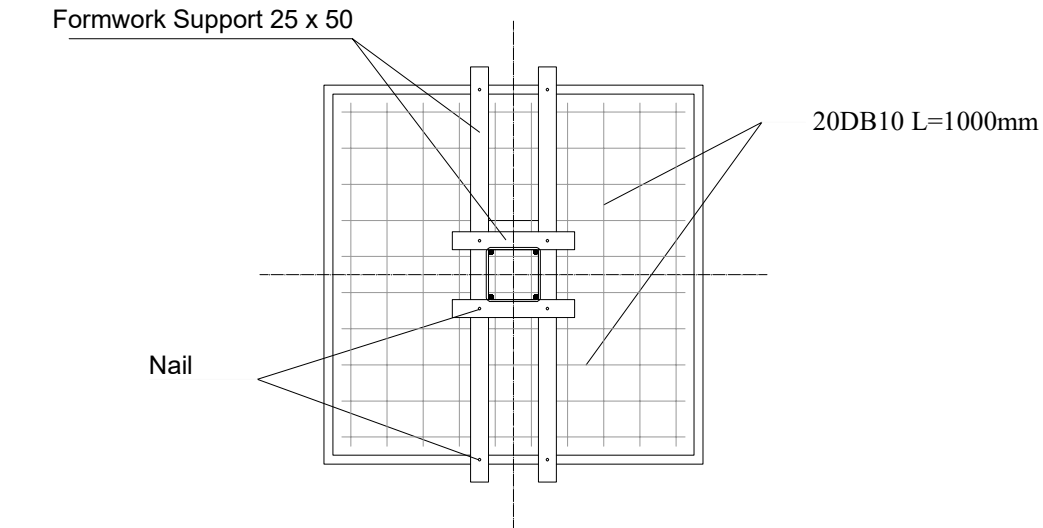
# STRUCTURAL DRAWING



(Pile Group Plan)

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : PILE GROUP PLAN		SHEET Nº:

## Detail to check before casting footing and column



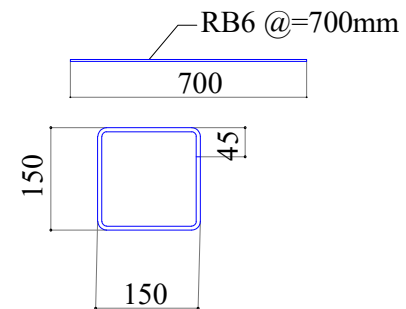
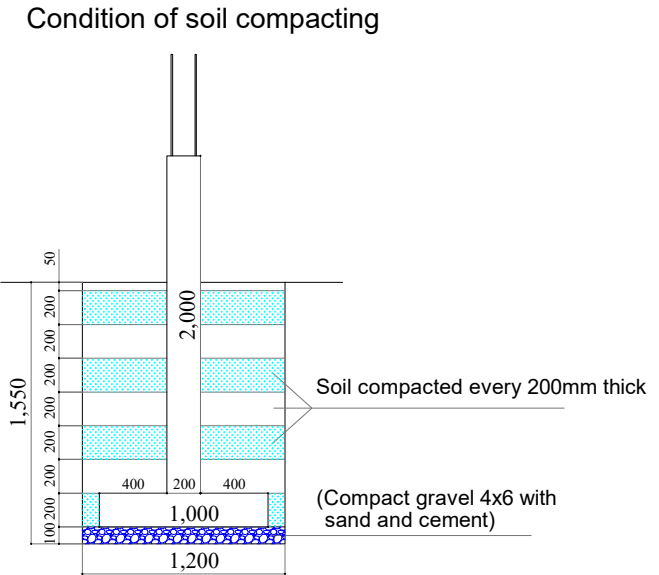
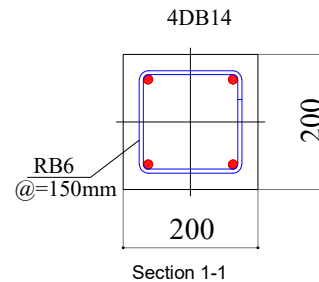
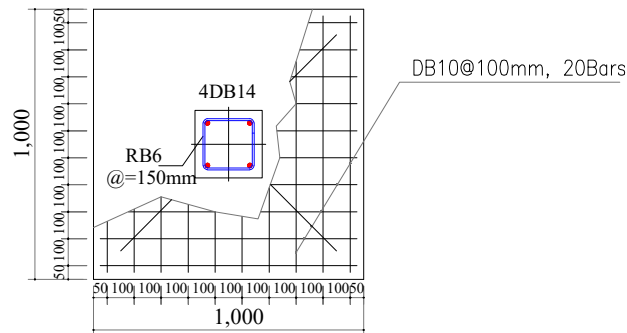
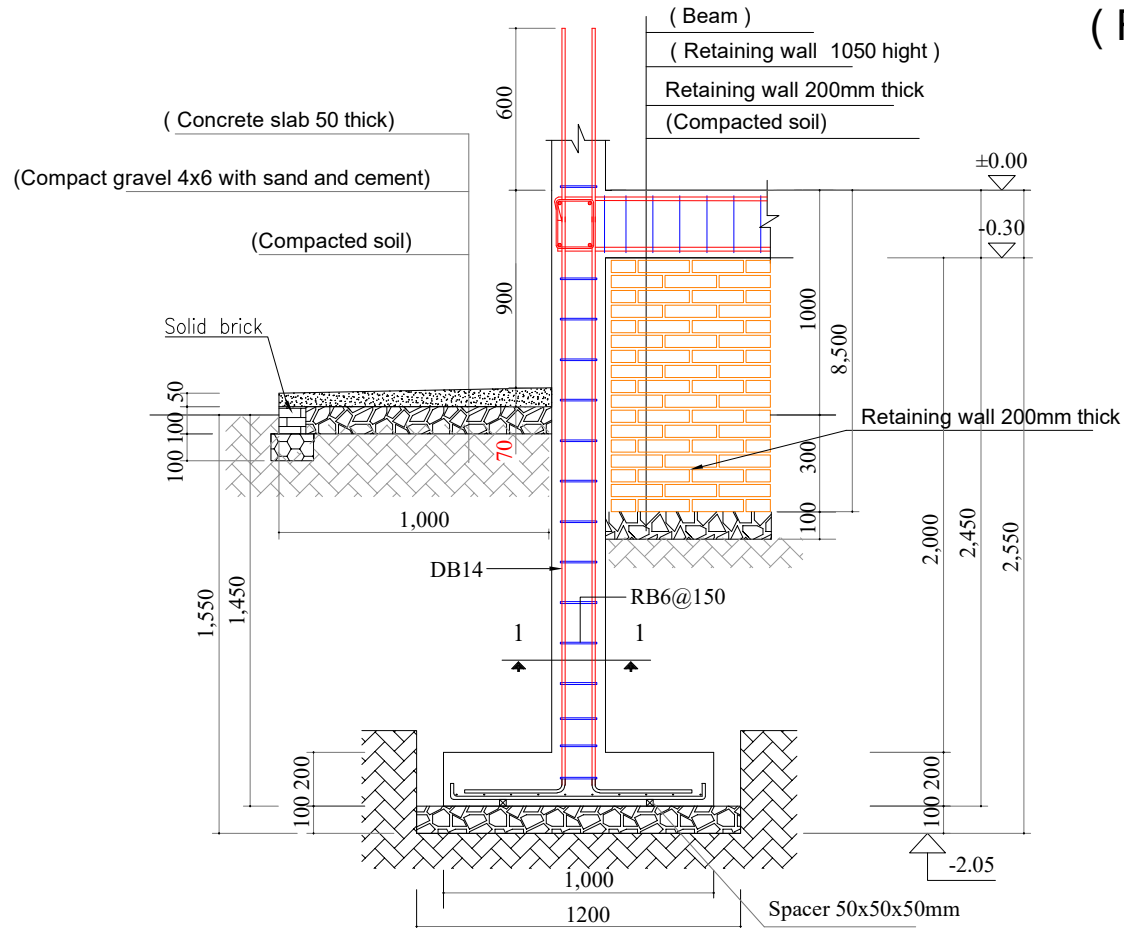
### NOTES:

1. Concrete cylinder compression strength, 28days is  $f'_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

MINISTRY OF EDUCATION, YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:	DRAWING TITLE : DETAIL TO CHECK BEFORE CASTING FOOTING AND COLUMN	SHEETS:	S16
					SHEET Nº:	S-02



( Footing and column detail F1 )



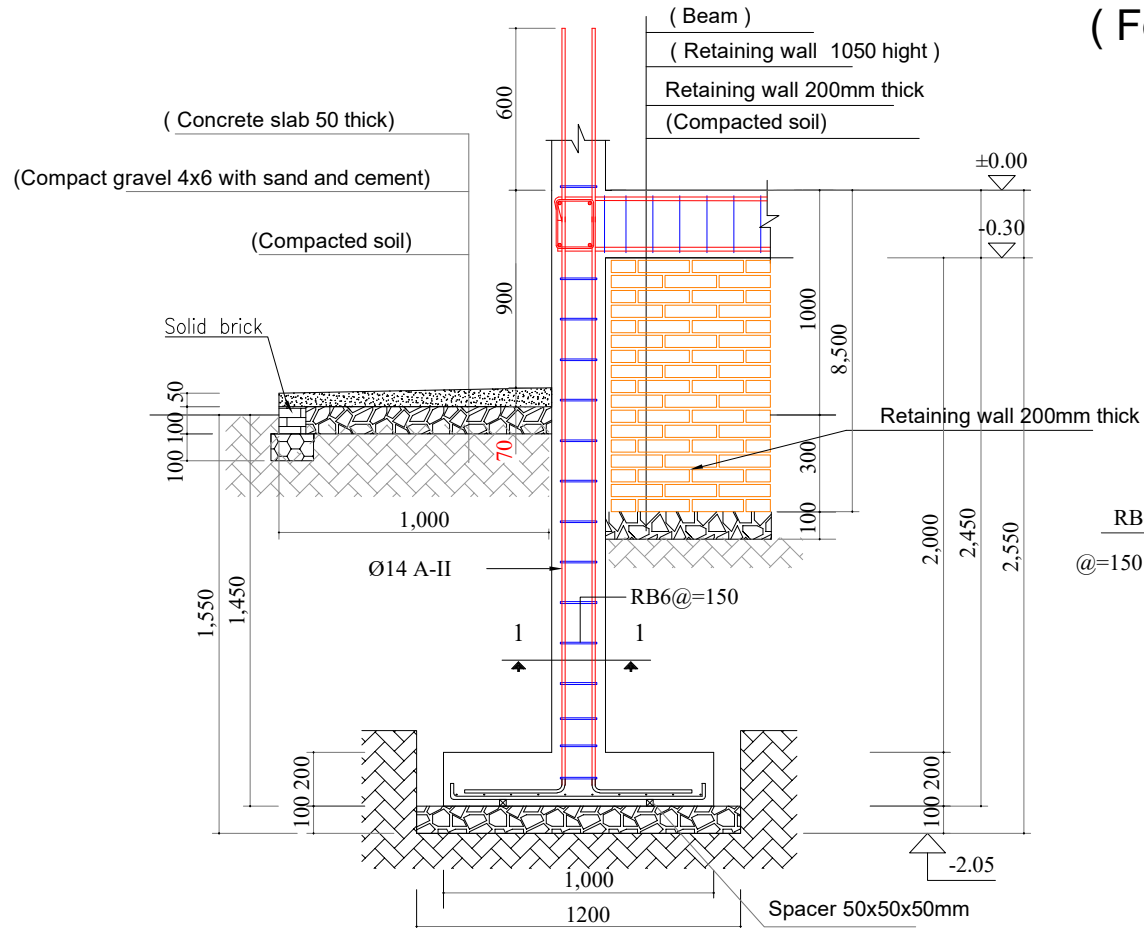
stirrup detail

NOTES:

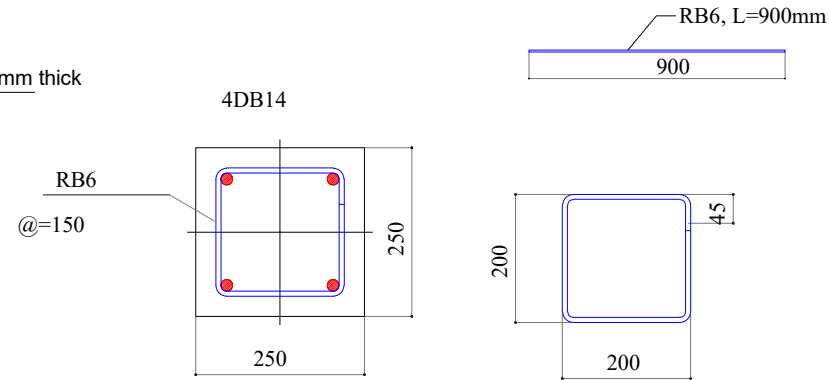
1. Concrete cylinder compression strength, 28days is  $f'_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : FOOTING AND COLUMN DETAIL F1	SHEET N°:	S-03

( Footing and column detail F2 )

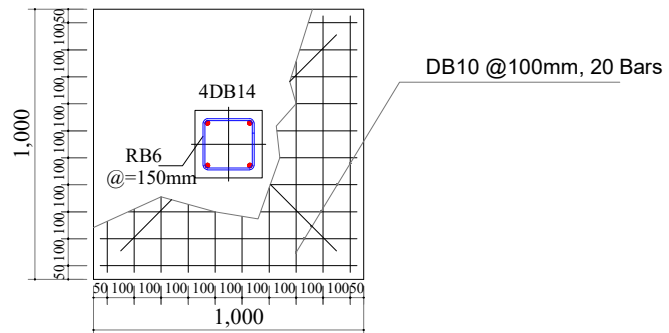


### Condition of soil compacting



## Section 1-1

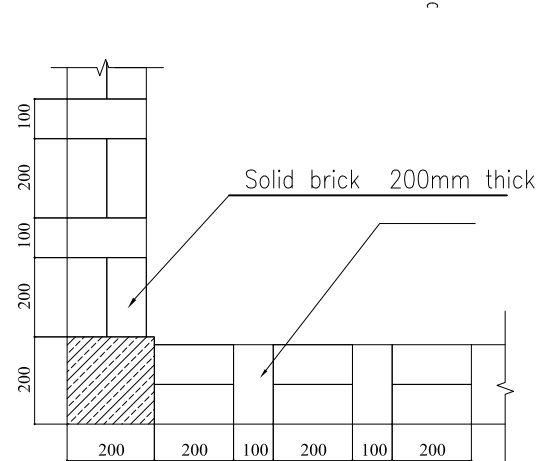
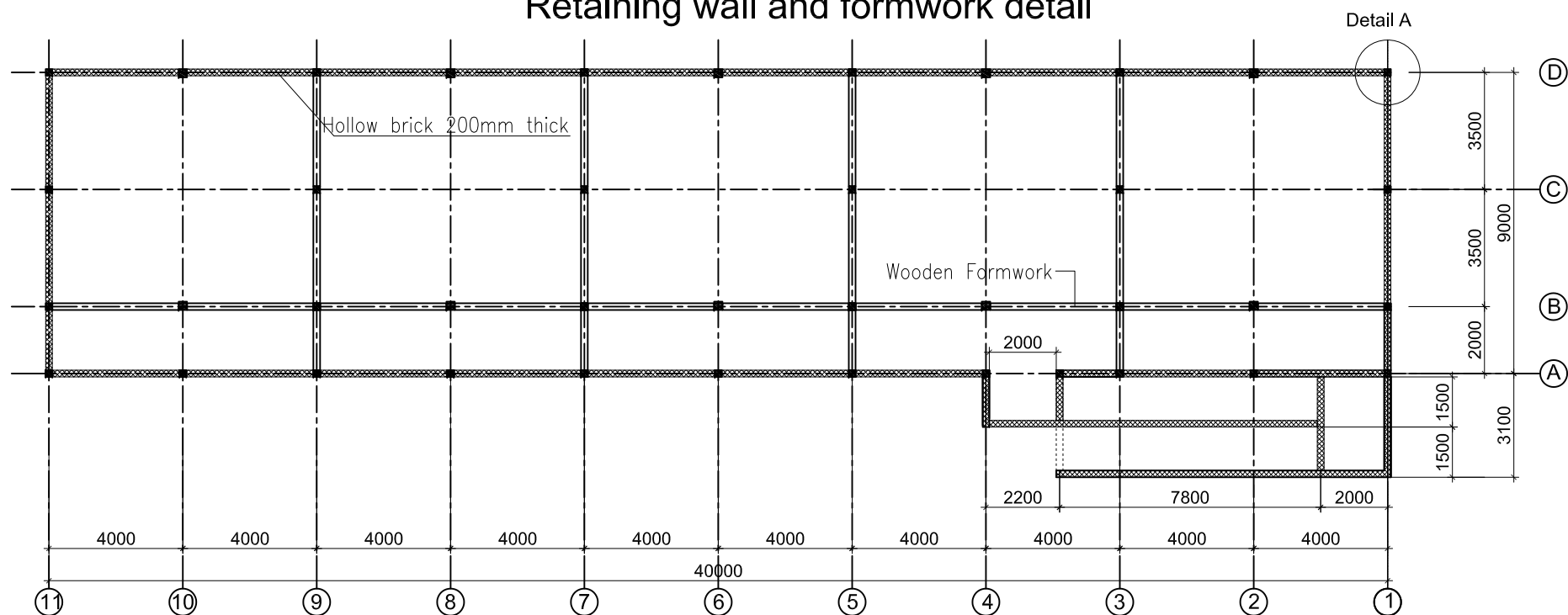
## Stirrup Detail



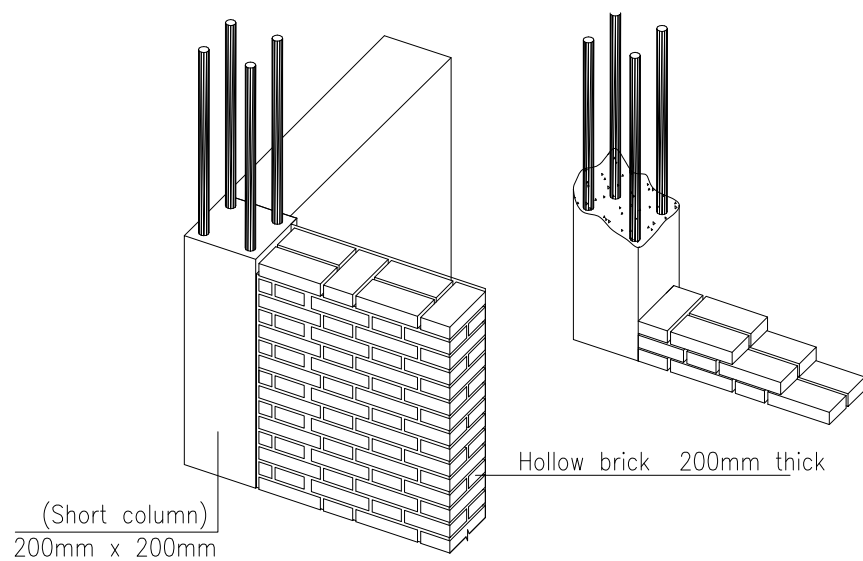
NOTES:

1. Concrete cylinder compression strength, 28days is  $f'_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

## Retaining wall and formwork detail

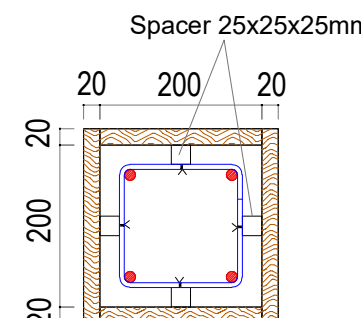
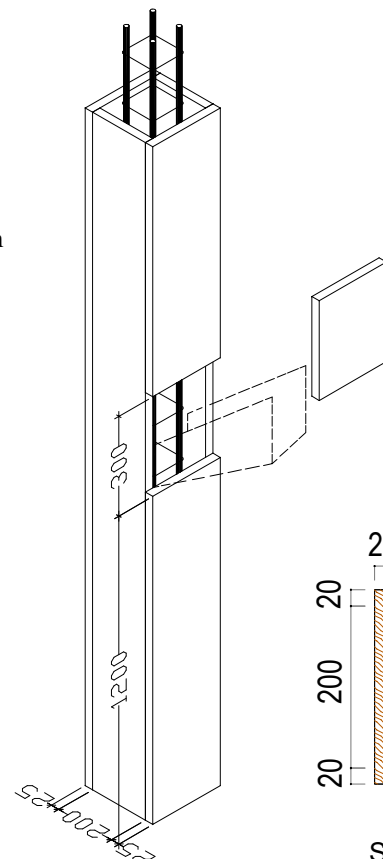
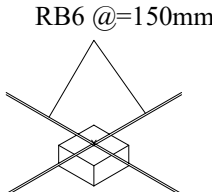
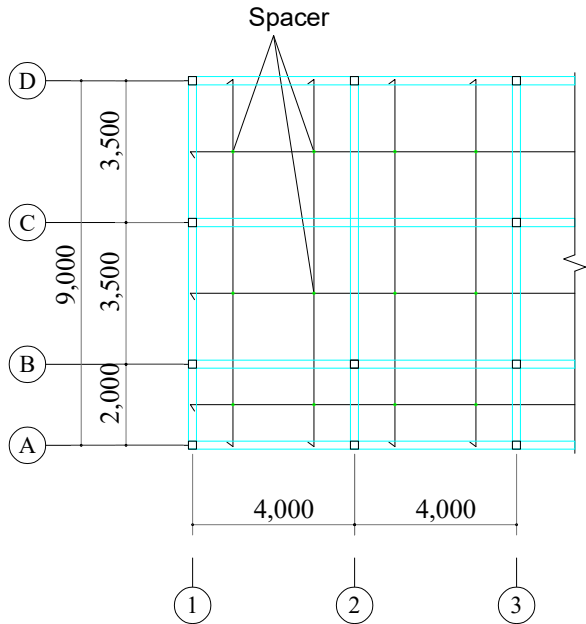
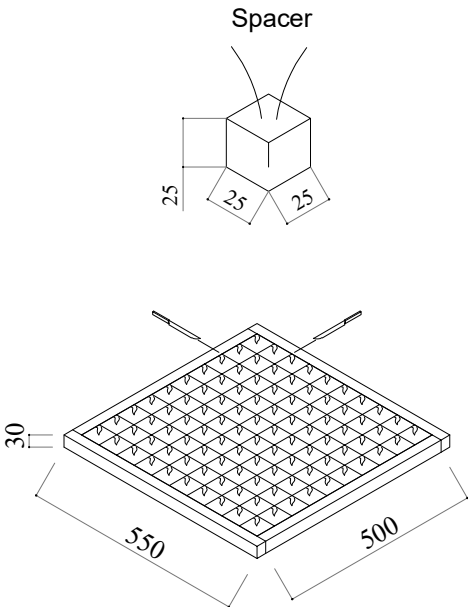


### Detail A

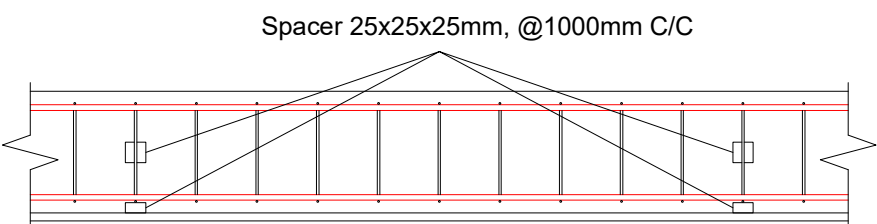


MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : RETAINING WALL AND FORMWORK DETAIL	SHEET N°:	S-05

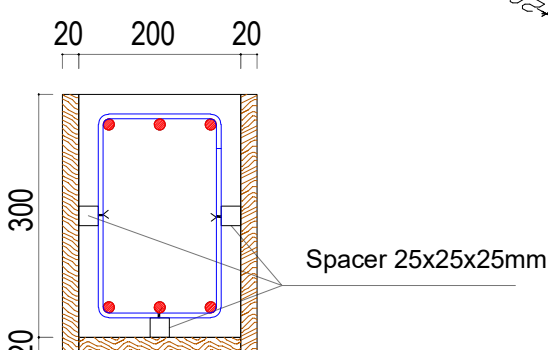
Reinforcement Spacer Detail



Spacer in column



Beam Spacer

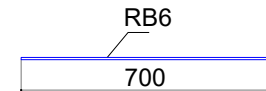
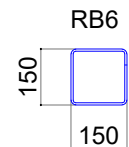
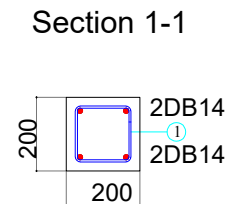
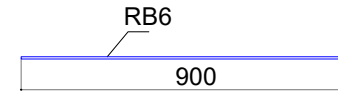
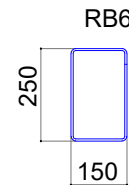
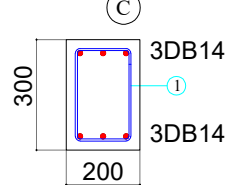
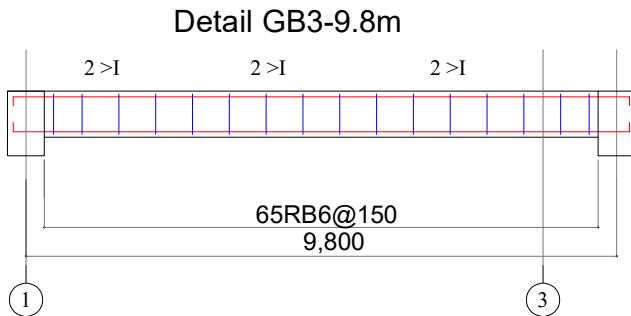
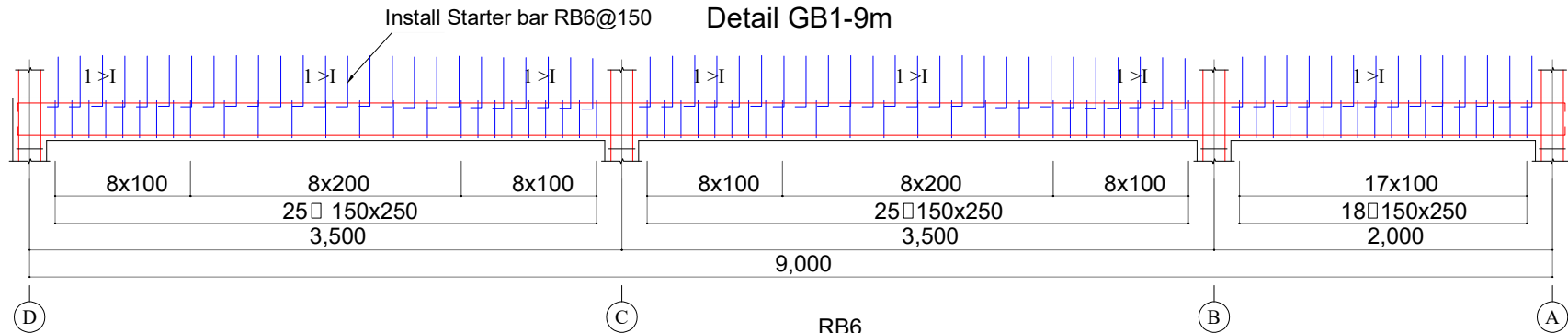
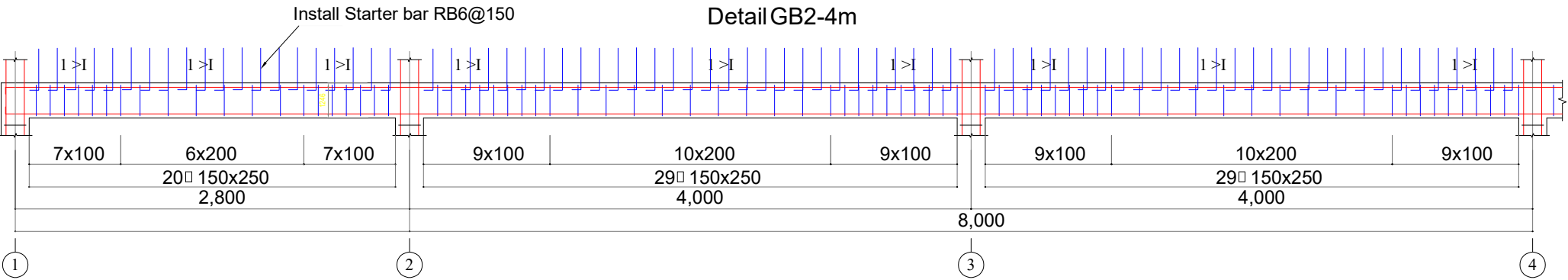


Spacer Detail

- NOTES:
- 1. Concrete cylinder compression strength, 28days is  $f'_c = 25\text{MPa}$
  - 2. DB yield strength  $f_y = 390\text{MPa}$
  - 3. RB yield strength  $f_y = 235\text{MPa}$
  - 4. Concrete cover rebar column = 25mm

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : REINFORCEMENT SPACER DETAIL		SHEET N°:



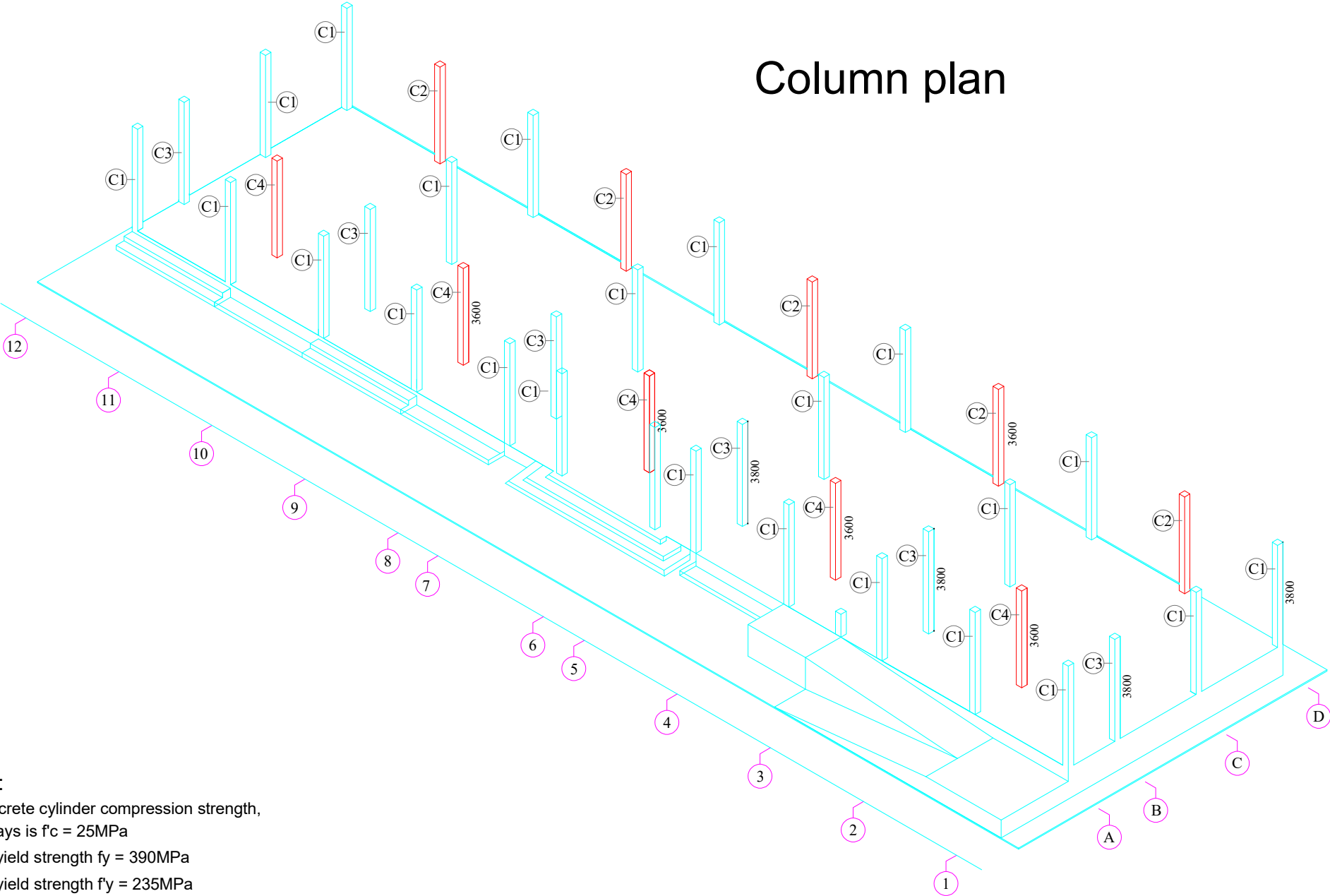


#### NOTES:

1. Concrete cylinder compression strength, 28days is  $f'_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : GROUND BEAM DETAIL	SHEET Nº:	S-08

# Column plan

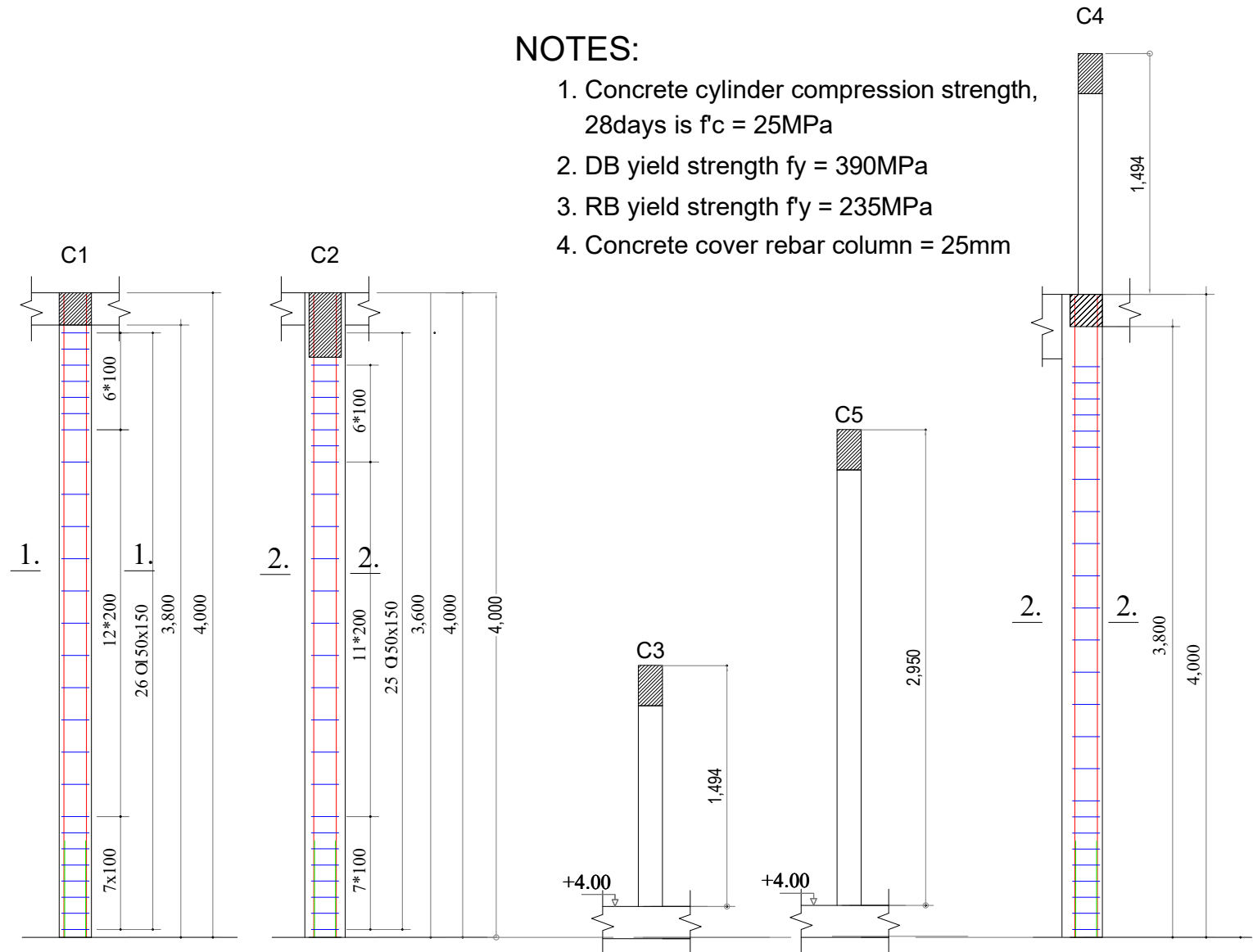


- NOTES:
- 1. Concrete cylinder compression strength, 28days is  $f_c = 25\text{MPa}$
  - 2. DB yield strength  $f_y = 390\text{MPa}$
  - 3. RB yield strength  $f_y = 235\text{MPa}$
  - 4. Concrete cover rebar column = 25mm

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:	DRAWING TITLE : COLUMN PLAN	SHEETS:	S16
					SHEET Nº:	S-09

## C2 & C4 Details

1. Concrete cylinder compression strength, 28days is  $f_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

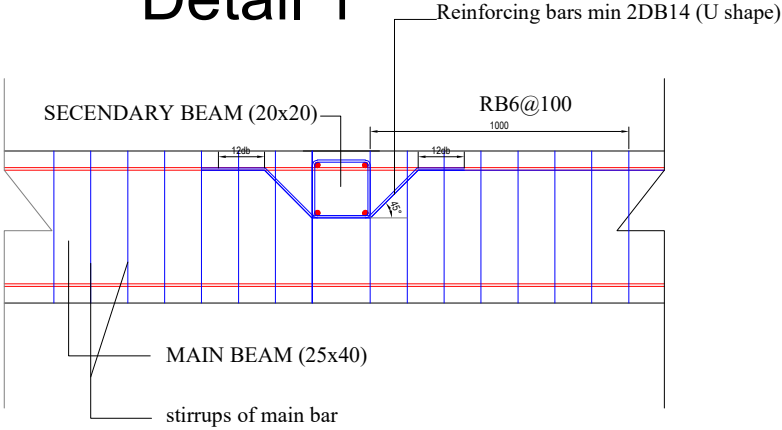
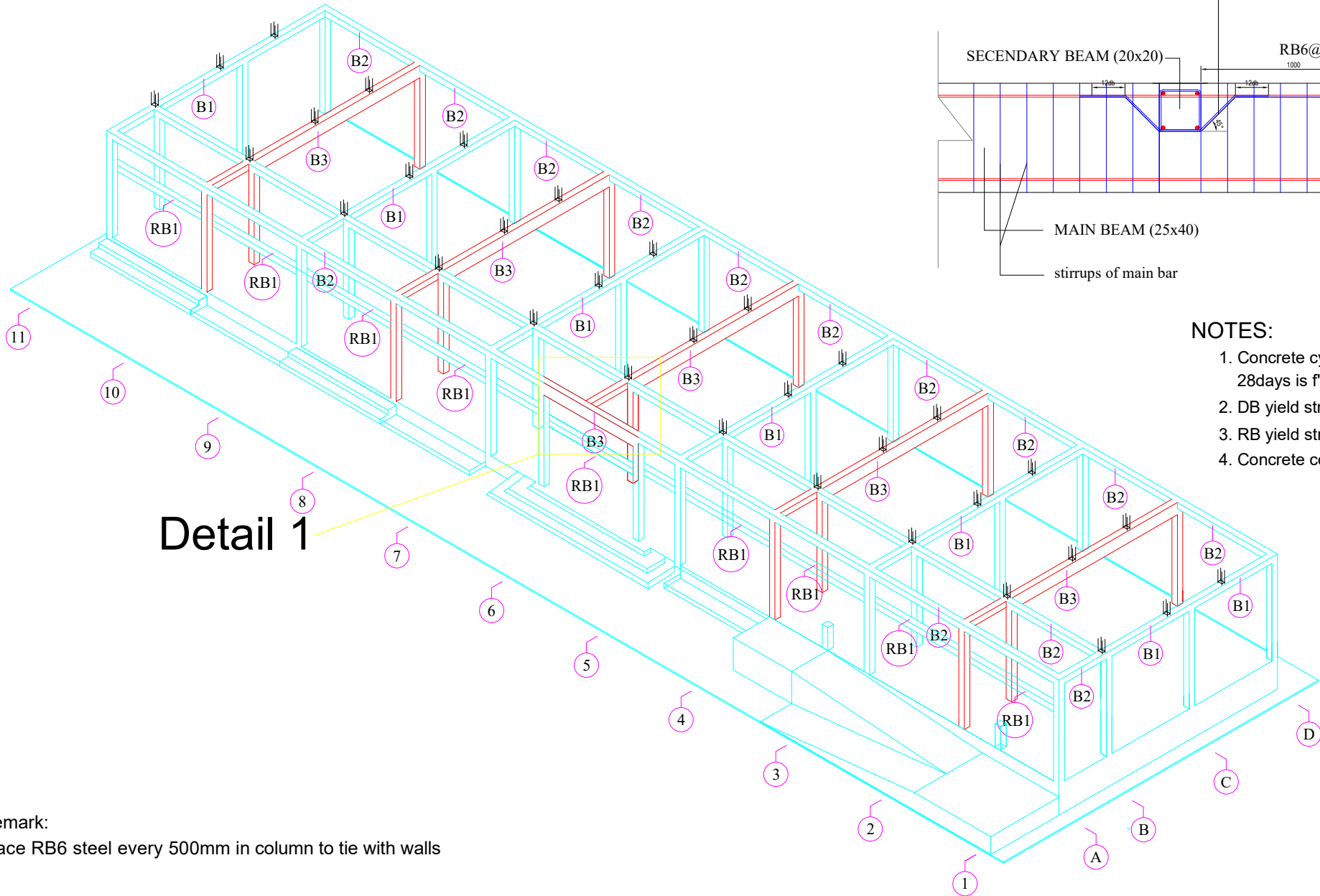


MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : COLUMN DETAIL	SHEET Nº:	S-10



Over Beam Plan

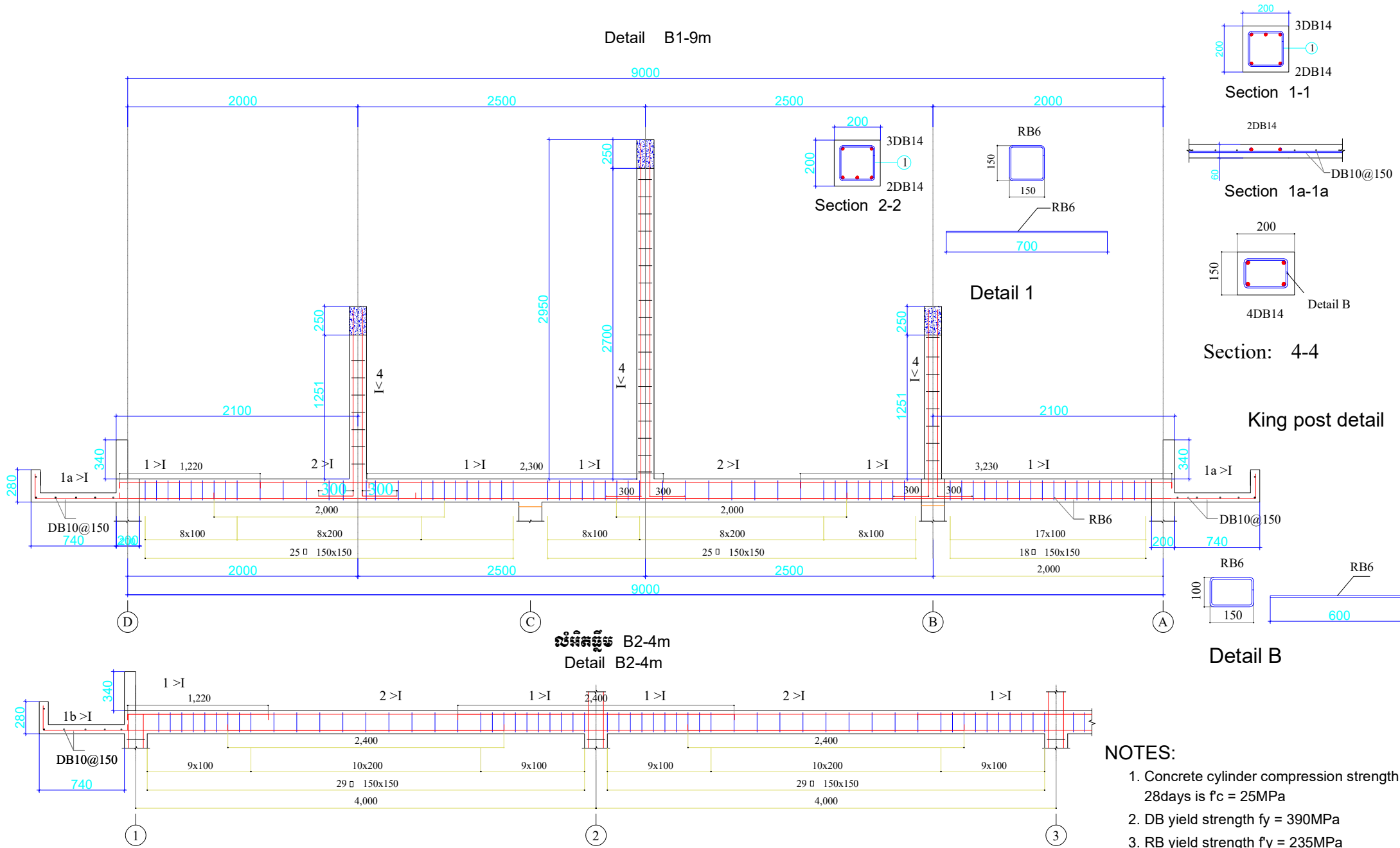
Detail 1



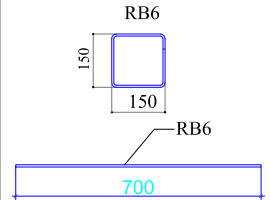
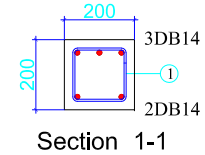
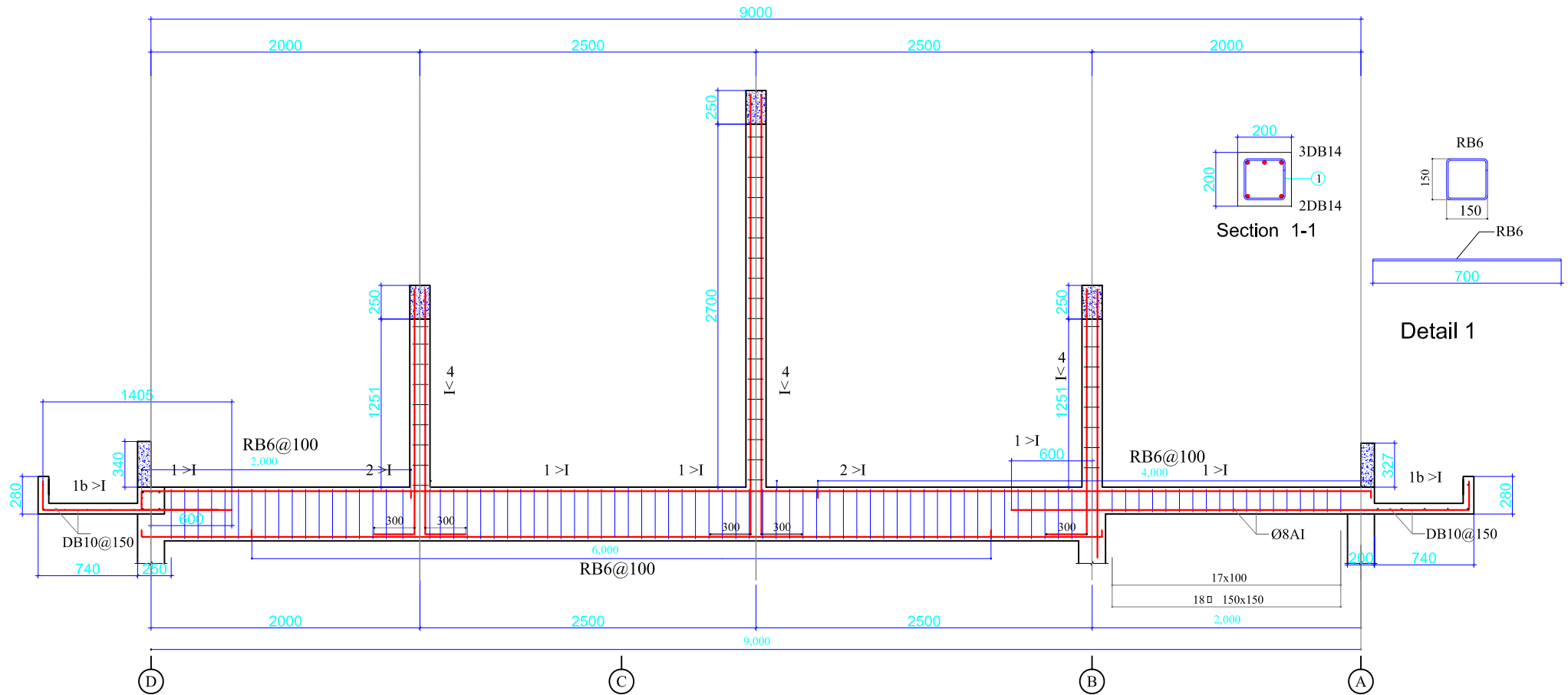
- NOTES:
- 1. Concrete cylinder compression strength, 28days is  $f_c = 25\text{MPa}$
  - 2. DB yield strength  $f_y = 390\text{MPa}$
  - 3. RB yield strength  $f_y = 235\text{MPa}$
  - 4. Concrete cover rebar column = 25mm

Remark:  
Place RB6 steel every 500mm in column to tie with walls

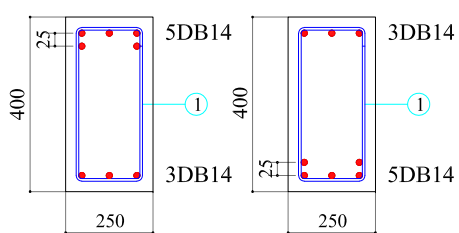
MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:		SHEETS:	S16
				DRAWING TITLE : OVER BEAM PLAN		SHEET N°:



Detail B3-9m

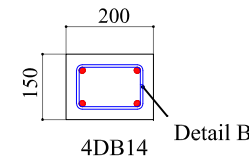
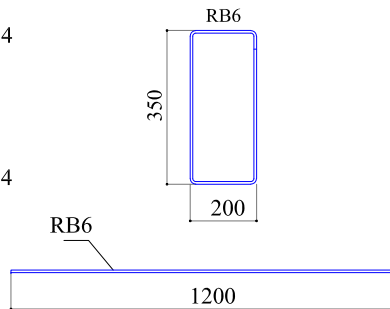


Detail 1



Section 1-1

Section 2-2



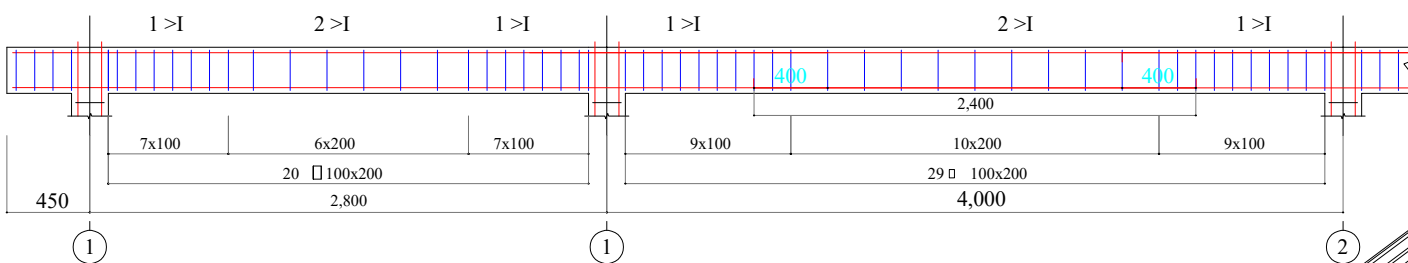
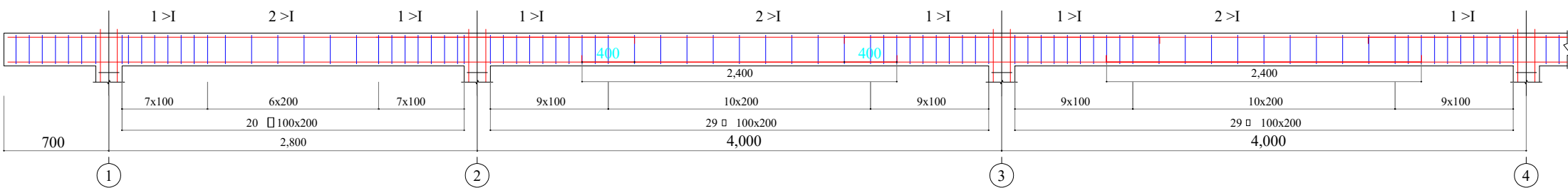
Section: 4-1



Detail B

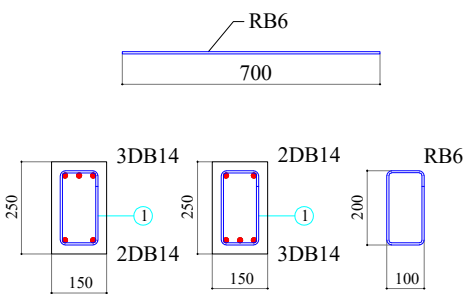
### NOTES:

1. Concrete cylinder compression strength, 28days is  $f_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

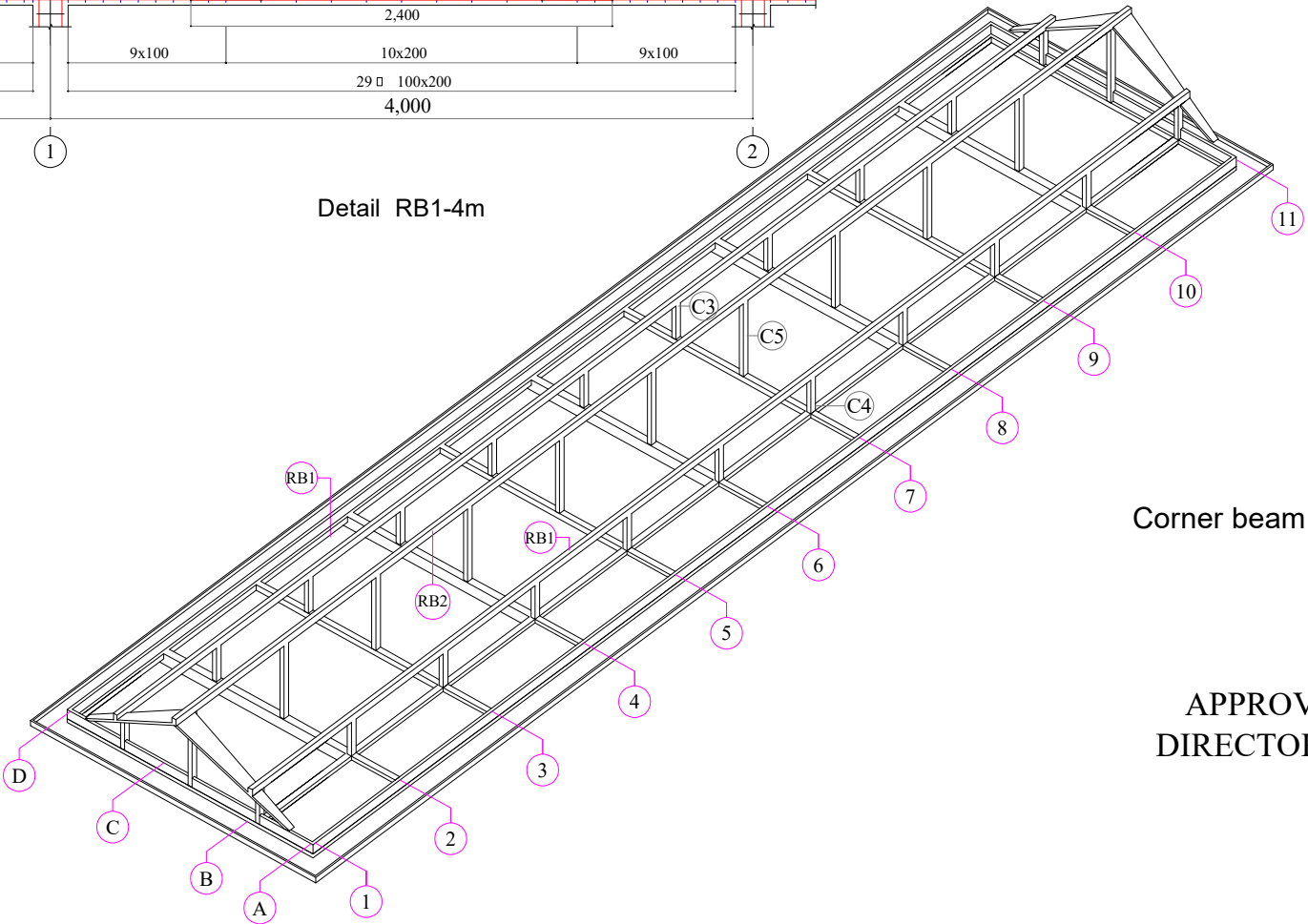


Beam Detail RB2-4m

Detail RB1-4m



Section 1-1 Section 2-2 Detail-1



Corner beam detail

- NOTES:
- 1. Concrete cylinder compression strength, 28days is  $f_c = 25\text{MPa}$
  - 2. DB yield strength  $f_y = 390\text{MPa}$
  - 3. RB yield strength  $f_y = 235\text{MPa}$
  - 4. Concrete cover rebar column = 25mm

APPROVED BY:  
DIRECTOR OF DOC

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:	DRAWING TITLE : RIGDE BEAM PLAN AND DETAIL	SHEETS:	S16
					SHEET Nº:	S-14

The floor plan shows a building with an overall width of 4,000 mm and a total depth of 4,000 mm. The plan is divided into several sections. On the left, there are two vertical sections: a top section with a height of 250 mm and a bottom section with a height of 1,570 mm. The top section contains a window labeled 'Detail 3'. The bottom section contains a window labeled 'W2' and a door labeled 'D1'. The right section has a height of 2,460 mm and contains a door labeled 'D1'. The plan includes various dimensions for walls, windows, and doors. A detail callout on the right shows a cross-section of a wall with a reinforcement bar (RB6 @150mm) and a door frame (2DB10).

Figure 10 consists of two cross-sectional detail drawings of a reinforced concrete (RC) column and wall assembly. The left drawing shows a wall (W1) with a central RC column (100x200) and a brickwork section above it. The right drawing shows a similar section with a different wall thickness. A detail callout for the RC column shows a cross-section of 100x200 with reinforcement bars (RB6@150mm) and 2DB10. Dimensions include a total width of 3800, a column width of 200, and a wall width of 2160.

2DB10

200

100

A-A

Figure 1: Dimensions of the experimental specimen. The diagram shows a rectangular specimen with a height of 1245 mm and a total width of 3,760 mm. The width is divided into five sections: two end sections of 710 mm each and three central sections of 720 mm each. The specimen is reinforced with L25x25 bars and a 30mm steel mesh.

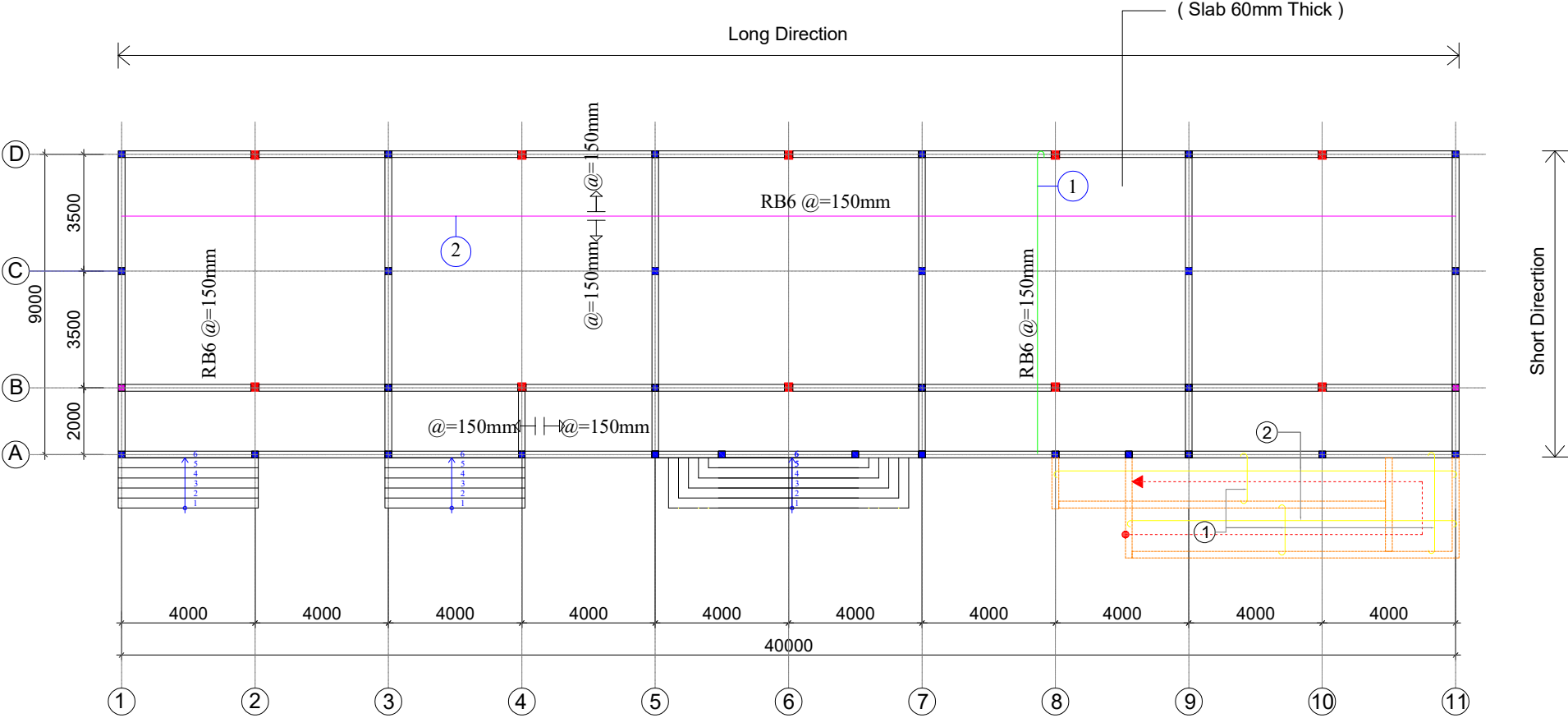
Figure 10 is a sectional view of the beam-column joint. The diagram shows a cross-section of a beam and column joint. The column is on the left, and the beam is on the right. The column has a height of 4,000 mm. The beam has a height of 700 mm. The joint is labeled "Detail 4". The beam reinforcement is labeled "RB6 @150mm". A circular detail is labeled "Detail 2".

### Detail 4

NOTES:

1. Concrete cylinder compression strength, 28days is  $f'_c = 25\text{MPa}$
2. DB yield strength  $f_y = 390\text{MPa}$
3. RB yield strength  $f_y = 235\text{MPa}$
4. Concrete cover rebar column = 25mm

Slab Steel bar Arrangement Detail



NOTES:

- 1. Concrete cylinder compression strength, 28days is  $f_c = 25\text{MPa}$
- 2. DB yield strength  $f_y = 390\text{MPa}$
- 3. RB yield strength  $f_y = 235\text{MPa}$
- 4. Concrete cover rebar column = 25mm

APPROVED BY:  
DIRECTOR OF DOC

Note:

- ① Place Rebar RB6 in short direction first
- ② Place Rebar RB6 in long direction second

MINISTRY OF EDUCATION,YOUTH AND SPORT	EDUCATION SECTOR SUPPORT PROJECT SPONSORED BY ACLEDA-JARDINES EDUCATION FOUNDATION (AJF)	DATE...../...../.....		PROJECT : SCHOOL BUILDING 1 STORY 5 CLASSROOMS PLINTH LEVEL +1.00M	SCALE:	NO
		CHECKED BY:	DRAWN BY:	DRAWING TITLE : SLAB STEEL BAR ARRANGMENT DETAIL	SHEETS:	S16
					SHEET N°:	S-16