



Islamic Republic of Afghanistan

Ministry of Rural Rehabilitation and Development

Engineering Department



There are a total of 31 typical school designs, including boundary walls and latrines, have been developed by design engineers from the Ministry of Education (MOE) and the Ministry of Rural Rehabilitation and Development (MRRD), with technical support by the non-governmental organization Danish Assistance to Afghan Rehabilitation and Technical Training (DAARTT) appointed by the World Bank.

The designs have been made for 6, 8 and 10 classroom schools in combinations with different material for walls (stone, burnt brick, compressed, stabilized earth blocks (SCEB) and mud), different types of roof (I-beam (flat and vaulted), RCC, pre-cast RCC, truss roof (wooden and metal)), different degrees of reinforcement for resistance of seismic events, and with clear heights of 300cm (for relatively warm areas) or 275cm (for relatively cold areas, or disaster risk areas where more stability is required). In addition, designs for Latrine Blocks and Boundary walls have also been developed.

Type	S.No	Drawing Title	Prepared by	Date Prepared
General	G	Aprovel Cover Page	DAARTT	08.11.2018
	G0	General Notes DRR	Dr. Halim	22.07.2018
Architecture	G	Cover Sheet	Ziaurahman Zia	12.08.2018
	G	Drawing List	Ziaurahman Zia	12.08.2018
	G	General Notes	Ziaurahman Zia	12.08.2018
	A01	Ground Floor Plan	Ziaurahman Zia	12.08.2018
	A02	Furniture Plan	Ziaurahman Zia	12.08.2018
	A03	Pavement Plan	Ziaurahman Zia	12.08.2018
	A04	Front Elevation	Ziaurahman Zia	12.08.2018
	A05	Back Elevation	Ziaurahman Zia	12.08.2018
	A06	Side Elevation	Ziaurahman Zia	12.08.2018
	A07	Section A-A	Ziaurahman Zia	12.08.2018
	A08	Section B-B	Ziaurahman Zia	12.08.2018
	A09	Roof Plan	Ziaurahman Zia	12.08.2018
	A10	Plan & section with detail of 12 Rump hand railing	Ziaurahman Zia	12.08.2018
	A11	Plan & section & Elevation of Black Board	Ziaurahman Zia	12.08.2018
	A12	Details of Door	Ziaurahman Zia	12.08.2018
	A13	Details of windows	Ziaurahman Zia	12.08.2018
	A14	Details & section of Door & windows	Ziaurahman Zia	12.08.2018
	A15	Detail of Floor PCC Concrete	Ziaurahman Zia	12.08.2018
	A16	Detail of (5,6)	Ziaurahman Zia	12.08.2018
	A17	Detail of (3,4)	Ziaurahman Zia	12.08.2018
	A18	Detail of (1,2)	Ziaurahman Zia	12.08.2018
	A19	Detail of (7,8,9,10)	Ziaurahman Zia	12.08.2018
	A20	Details of 13 Flower pot	Ziaurahman Zia	12.08.2018
	A21	Detail of 14 Chimney Cup	Ziaurahman Zia	12.08.2018
Structure	01	Cover Sheet	Eng. Rahim	Jun-18
	02	General Notes	Eng. Rahim	Jun-18
	03	Foundation Plan	Eng. Rahim	Jun-18
	04	Foundation Details	Eng. Rahim	Jun-18
	05	Reinforcement Bars of ring Beams on stone masonry and R.B NO : 3	Eng. Rahim	Jun-18
	06	Structure walls	Eng. Rahim	Jun-18
	07	Shuttering plan for Roof Slab	Eng. Rahim	Jun-18
	08	Roof RCC Rings and Beams plan	Eng. Rahim	Jun-18
	09	Reinforcement bars of ring beams No:1-2	Eng. Rahim	Jun-18
	10	Reinforcement bars of ring beams No:4,5,6	Eng. Rahim	Jun-18
	11	Beams no: 1-2 : Detail	Eng. Rahim	Jun-18
	12	Beams no: 3-4 : Detail	Eng. Rahim	Jun-18
	13	Reinforcement bars plan for Roof slab	Eng. Rahim	Jun-18
	14	Reinforcement bars of ring beams No:7 and Parapet Details	Eng. Rahim	Jun-18
Electrical	E1	Specifications and Equipment's	Eng. Abdul Qader	07.08.2018
	E2	Power Plan	Eng. Abdul Qader	07.08.2018
	E3	Socket Plan	Eng. Abdul Qader	07.08.2018
	E4	Electric instrument Details	Eng. Abdul Qader	07.08.2018

The above drawings have to be read in conjunction with the Technical Specifications, Note on application of EQRA designs and the Categorization of EQRA provinces.
The authorized signatories from the following ministries / organization have affixed their signatures on this note on (insert date) as a token of their approval for the use of the above drawings for construction of schools and facilities planned under EQRA.

6 CLASSROOM

BURNT BRICK WALL

RCC ROOF H=2.75 M

Signed by Mr. Abdul Momin Razi.....
who is duly authorized by the Minister of Education to sign on behalf of the Ministry of Education to certify that the above drawings meet the functional and space requirements of the Ministry of Education for schools and other supporting facilities.

SIGNATURE -1

Date: 13/11/2018

Signed by Mr. Eng. Shukur Ali.....
who is duly authorized by the Minister of Rural Rehabilitation and Development (MRRD) to sign on behalf of the Ministry of Rural Rehabilitation and Development (MRRD) to certify that the above drawings meet the architectural, structural and electrical safety norms in Afghanistan.

SIGNATURE -1

Date: 13/11/2018

Signed by Mr. Eng. M. P. Agha.....
who is duly authorized by the Danish Assistance to Afghan Rehabilitation and Technical Training (Daartt) to sign on their behalf to certify that the above drawings have been prepared under their guidance and can be adopted for construction.

SIGNATURE -1

Date: 13/11/2018

G

Aprovel
cover sheet

EARTHQUAKE ZONES

LIST OF PACKAGES

6- CLASSROOM PACKAGES

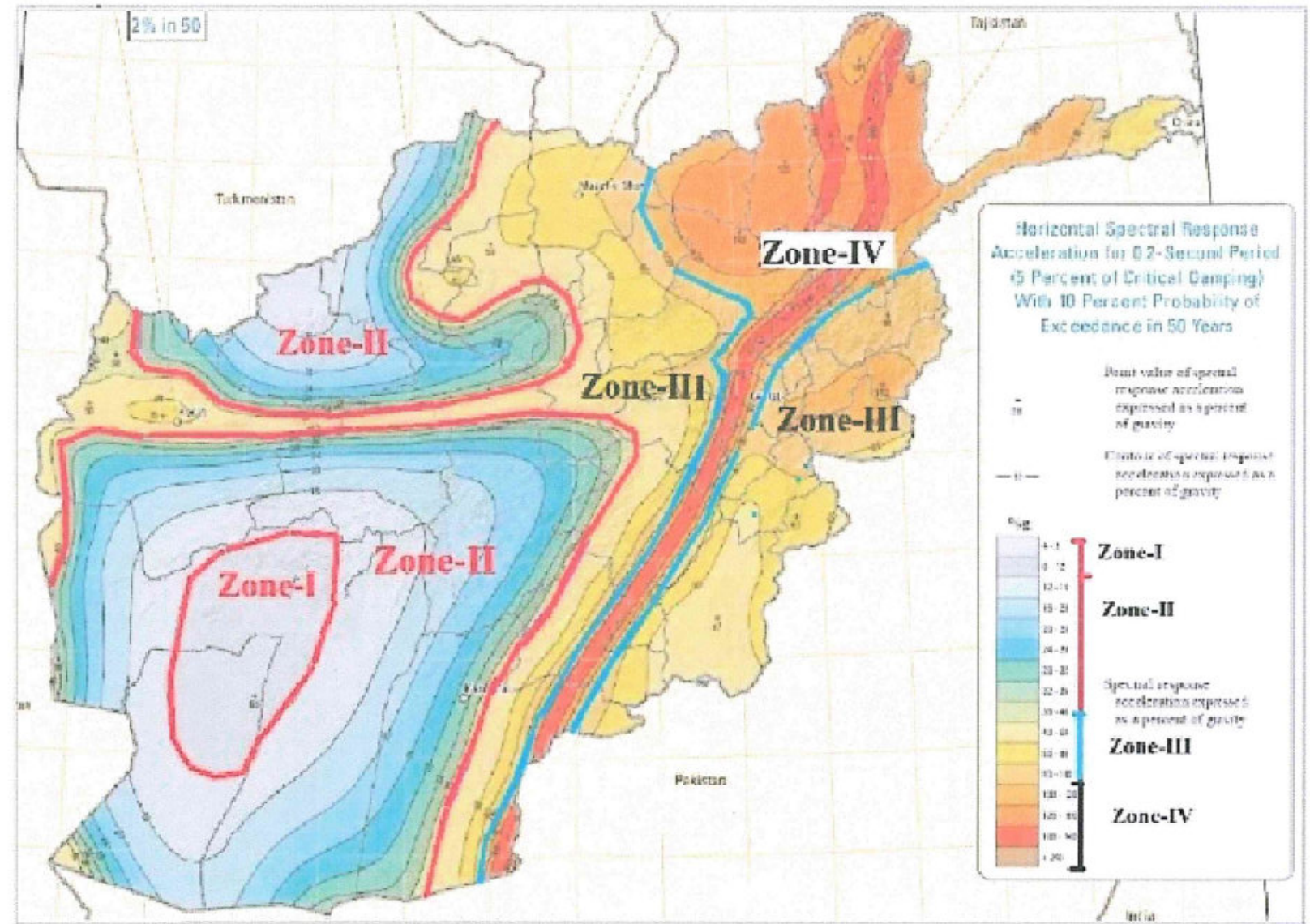
	ZONE-I	ZONE-II	ZONE-III	ZONE-IV
1- Burnt brick wall with RCC roof H275cm	[√]	[√]	[√*]	[X]
2- Burnt brick wall with RCC roof H300cm	[√]	[√]	[√*]	[X]
3- Burnt brick wall with vaulted roof H275cm	[√]	[√]	[√*]	[X]
4- Burnt brick wall with vaulted roof H300cm	[√]	[√]	[√*]	[X]
5- Burnt brick wall with PreCast roof H300cm	[√]	[√]	[√*]	[X]
6- Stone Masonry wall with RCC roof H275cm	[√]	[√]	[√*]	[X]
7- Stone Masonry wall with RCC roof H300cm	[√]	[√]	[√*]	[X]
8- Burnt Brick wall with RCC roof DRR	[√]	[√]	[√]	[√]
9- Mud wall with vaulted roof H300cm	[√]	[√]	[√*]	[X]
10- SCEB20 wall with vaulted roof H275cm	[√]	[X]	[X]	[X]
11- SCEB25 wall with vaulted roof H275cm	[√]	[√]	[X]	[X]

8- CLASSROOM PACKAGES

1- Burnt brick wall with RCC roof H275cm	[√]	[√]	[√*]	[X]
2- Burnt brick wall with RCC roof H300cm	[√]	[√]	[√*]	[X]
3- Burnt brick wall with vaulted roof H275cm	[√]	[√]	[√*]	[X]
4- Burnt brick wall with vaulted roof H300cm	[√]	[√]	[√*]	[X]
5- Burnt brick wall with PreCast roof H300cm	[√]	[√]	[√*]	[X]
6- Stone Masonry wall with RCC roof H275cm	[√]	[√]	[√*]	[X]
7- Stone Masonry wall with RCC roof H300cm	[√]	[√]	[√*]	[X]
8- Burnt Brick wall with RCC roof DRR	[√]	[√]	[√]	[√]
9- SCEB20 wall with vaulted roof H275cm	[√]	[X]	[X]	[X]
10- SCEB25 wall with vaulted roof H275cm	[√]	[√]	[X]	[X]

10- CLASSROOM PACKAGES

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7- Stone Masonry wall with RCC roof H300cm	[√]	[√]	[√*]	[X]
8- Burnt Brick wall with RCC roof DRR	[√]	[√]	[√]	[√]
9- SCEB20 wall with vaulted roof H275cm	[√]	[X]	[X]	[X]
9- SCEB25 wall with vaulted roof H275cm	[√]	[√]	[X]	[X]



IMPORTANT NOTE:

- 1- SCEB20 construction should not be carried out in Zones II , III, and IV.
- 2- SCEB25 construction should not be carried out in Zones III, and IV.

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MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN	Sefatullah "Halim"	Combined technical team	MOE/MRRD/DAARTT
PREPLANNED & CHECKED BY	DAARTT	SCALE	AS SHOWN (A3)
TECH- APPROVED BY		DATE	22/07/2018

PROJECT NAME	General note for all type of packages
DRAWING TITLE	GENERAL NOTES DRR

SHEET NO.

G.0
0



Islamic Republic of Afghanistan
Ministry of Rural Rehabilitation and Development
Engineering Department



**ARCHITECTURAL
DRAWINGS**

6 CLASS ROOM

BURNT BRICK WALL
RCC ROOF H=2.75 M



G
00 COVER SHEET FOR 6 CLASS ROOM RCC SLAB
SCALE: A3



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



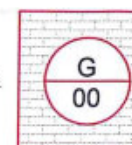
PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN ZIAURAHMAN ZIA
PREPLANNED & CHECKED BY DAARTT
TECH- APPROVED BY

Combined technical
team MOE/MRRD/DAARTT
SCALE AS SHOWN (A3)
DATE 12/08/2018


PROJECT NAME 6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE Ground Floor Plan (cover sheet)

SHEET NO.



6 CLASS ROOM

Burnt Brick wall
RCC Slab H=275

Support member	Ziaurahman Zia	
Design by	M.Rahim	
Check & Review by	DAARTT	
Approved by	MINISTRY OF EDUCATION	

DRAWINGS LIST

ARCHITECT LIST

SHEET NUMBER	SHEET NAME
01	DRAWINGS LIST FOR 6 CLASS ROOM PRECAST SLAB
02	SYMBOLS & GENERAL NOTE
A1	GROUND FLOOR PLAN
A2	FURNITURE FLOOR PLAN
A3	PAVEMENT PLAN
A4	FRONT ELEVATION
A5	BACK ELEVATION
A6	SIDE ELEVATION
A7	SECTIONS A-A
A8	SECTIONS B-B
A9	ROOF PLAN OF 6 CLASS ROOM PRECAST SLAB
A10	PLAN & SECTION WITH DETAILS OF 13 RUMP HAND RAILING
A11	PLAN & SECTION & ELEVATION OF BLACK BOARD
A12	DETAILS OF DOORS
A13	DETAILS OF WINDOWS
A14	DETAILS & SECTION OF DOORS & WINDOWS
A15	DETAILS 11 & SECTION OF FLOOR PCC CONCRETE
A16	DETAILS OF (5,6)
A17	DETAILS OF (3,4)
A18	DETAILS OF (1,2)
A19	DETAILS OF (7,8,9,10)
A20	DETAIL OF 13 FLOWERS POT
A21	DETAIL OF 14 CHIMNEY CUP

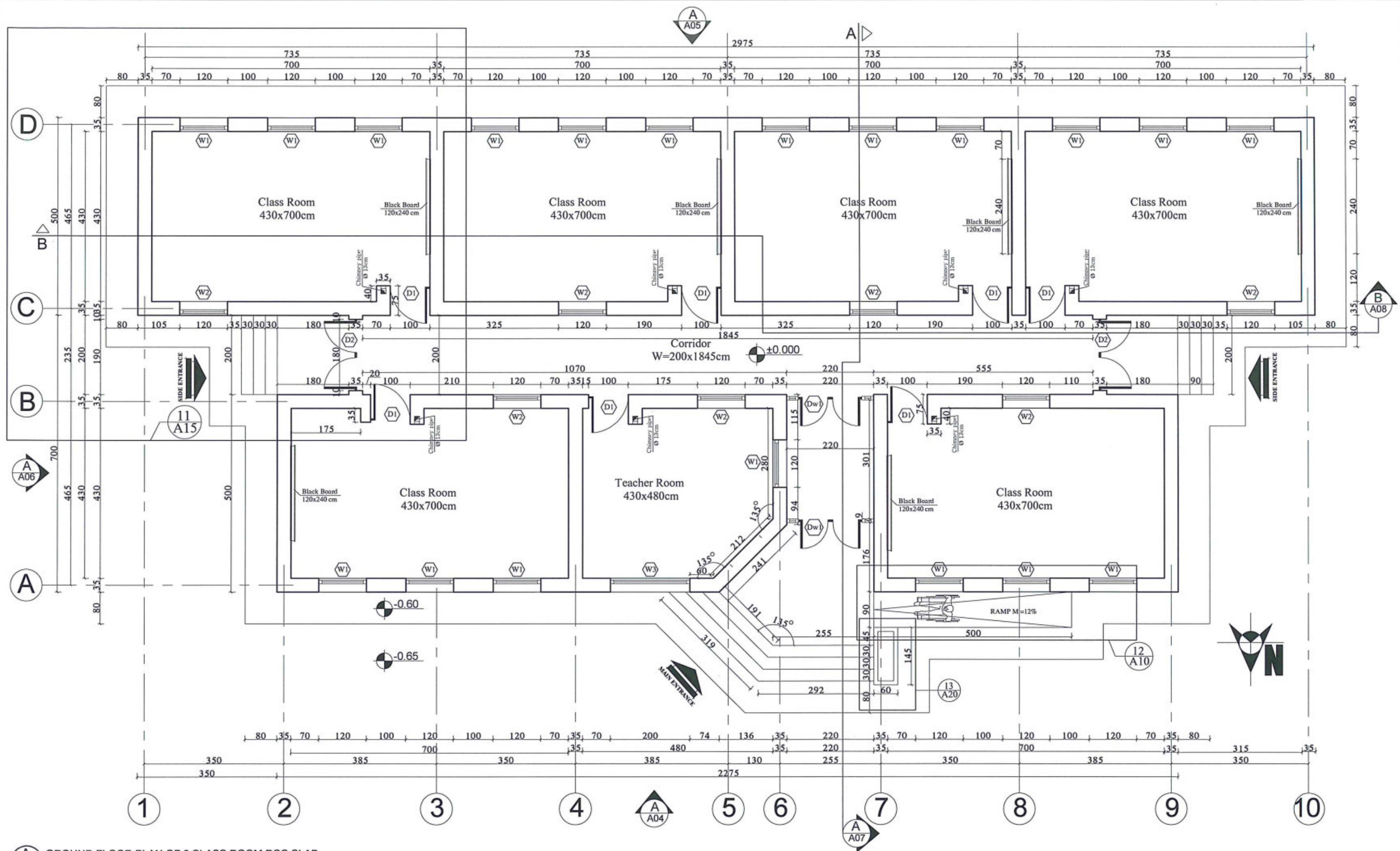


General Notes for architecture designs of Schools for EQRA program

- The designs of 6, 8 and 10 classroom schools which are to be built under EQRA program was basically prototype designs with due consideration given to economy, safety, with the use local materials.
- The designs are made with due consideration of the norms and standards used by the ministry of education of Afghanistan.
- These designs are intended to be mainly built by the local communities and therefore they have been made very simple and easy to be built.
- These designs must undergo a site adaptation process after the site selection is complete for them. So a proper site plan with the help of the relevant manuals and the guidelines made for the site selection and design shall be prepared before the construction starts at site.
- These designs shall be used based on the verified site conditions and the assignment table for the types of design prepared based on the categorization of the 17 provinces.
- If any difficulties are arising in the process of construction, it has to be brought to the notice of the design engineers before bringing any changes to the designs or the use of materials.
- All dimensions are given in millimeters unless otherwise specified.
- All doors and windows are to be built in accordance with the details given in the drawings.
- The dimensions of doors and windows are given as finished dimensions, the builders shall consider an appropriate opening size when doing the brickworks.
- While construction the builders shall not scale the drawings and shall refer to the given dimensions

GENERAL SYMBOLS

	Polystyrene	عایق حرارت
	Stone Elevation	سنگ در نما
	Exposed concrete	نمای کائوچیتی
	Direction of window	مسیر باز شدن کلکین
	Chimney pipe	دود کش بخاری
	Level in plan	ارتفاع در پلان
	Stone fired	قطع دیوار سنگی
	Elevation	عنصر نماها
	Section	قطع
	RCC Concrete	کائوچیت مسلخ دار
	Center line	خط محوری
	Building entrance	ادخال تعمیر
	Direction of stair	مسیر زینه
	Ramp hand railing	کتاره
	Compacted soil	خاک تپک شده
	Gravel	سنگ دریایی
	Mortar	شفته کائوچیت
	PCC Concrete	کائوچیت بدون مسلخ
	Finished level	سطح تمام شده
	Moisture insulation	عایق رطوبت
	Window mark	علامت کلکین
	Door mark	علامت دروازه
	Orientation	سمت یابی
	White Glass	شیشه در مقطع
	White Glass	درخت در نما



A
01 GROUND FLOOR PLAN OF 6 CLASS ROOM RCC SLAB
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
PREPLANNED &
CHECKED BY
TECH- APPROVED BY

ZIAURAHMAN ZIA
DAARTT

Combined technical
team

MOE/MRRD/DAARTT
SCALE
DATE

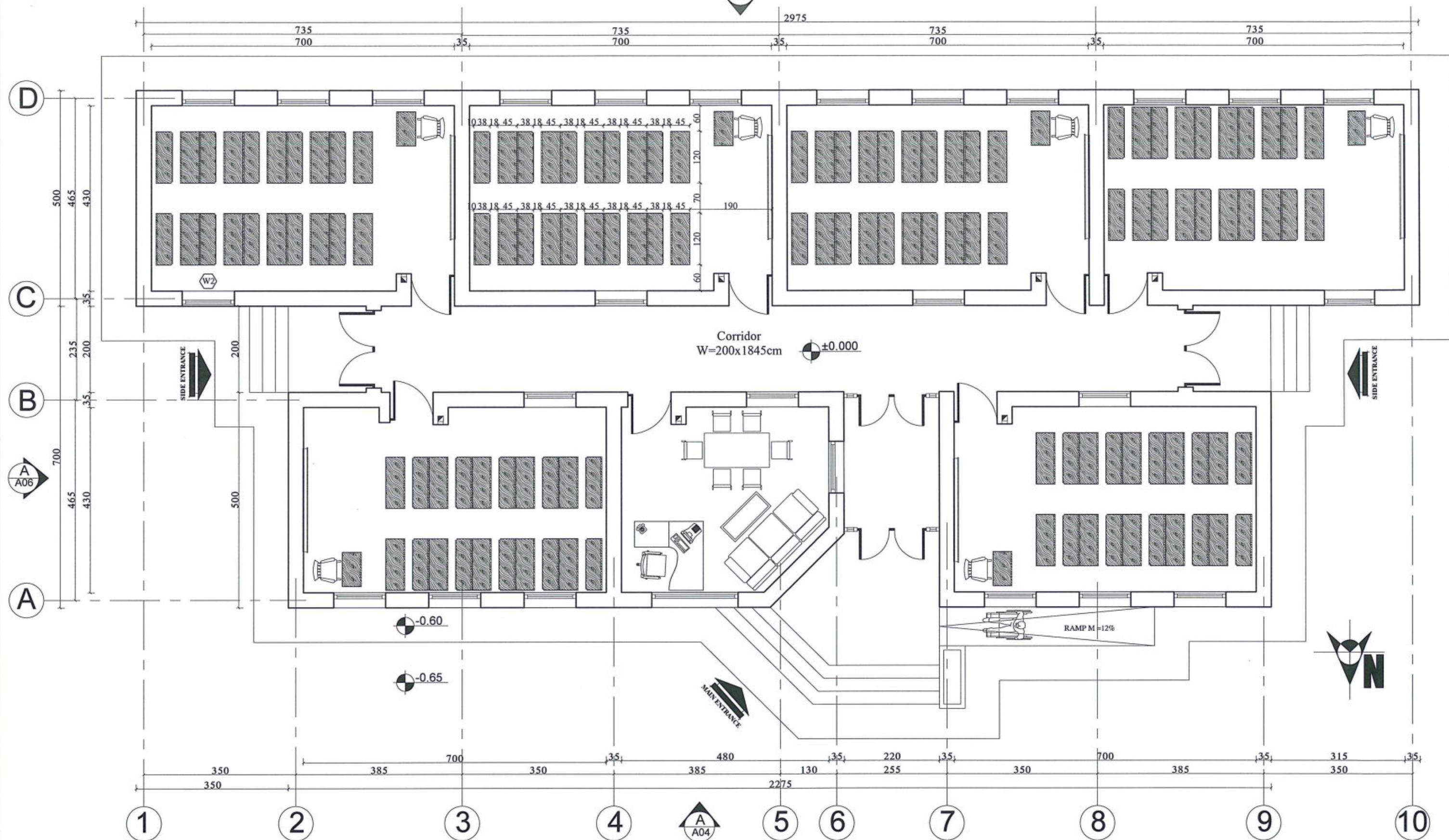
AS SHOWN (A3)
12/08/2018

PROJECT NAME
DRAWING TITLE

6 Classroom Burnt Brick RCC Slab H-275
Ground Floor Plan

SHEET NO.

A01
21



A
02 FURNITURE PLAN OF 6 CLASS ROOM RCC SLAB
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
PREPLANNED &
CHECKED BY
TECH- APPROVED BY

ZIAURAHMAN ZIA
DAARTT

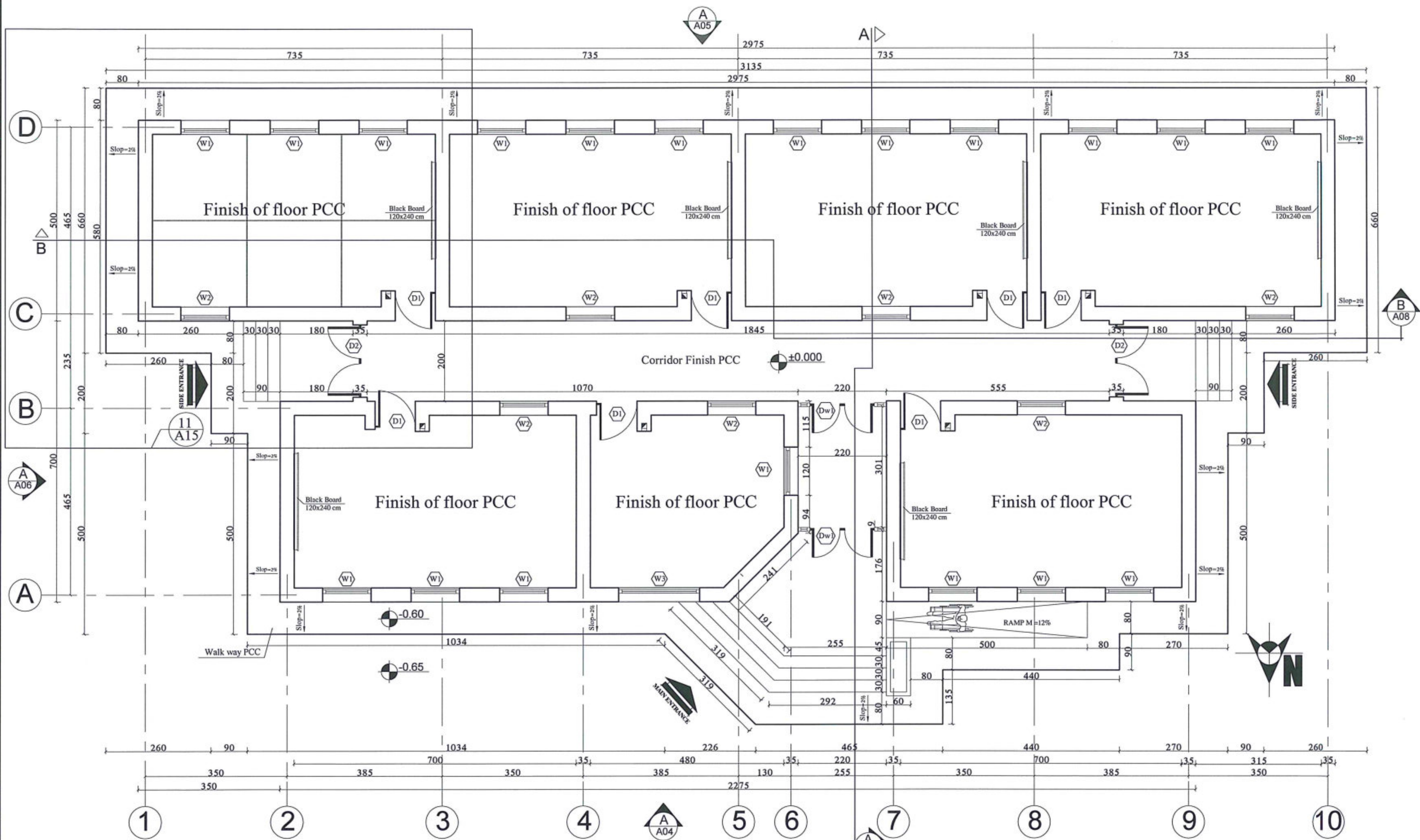
Combined technical
team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
DRAWING TITLE

6 Classroom Burnt Brick RCC Slab H-275
Furniture Plan

SHEET NO.

A02
21



A
03 PAVEMENT PLAN OF 6 CLASS ROOM RCC SLAB
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

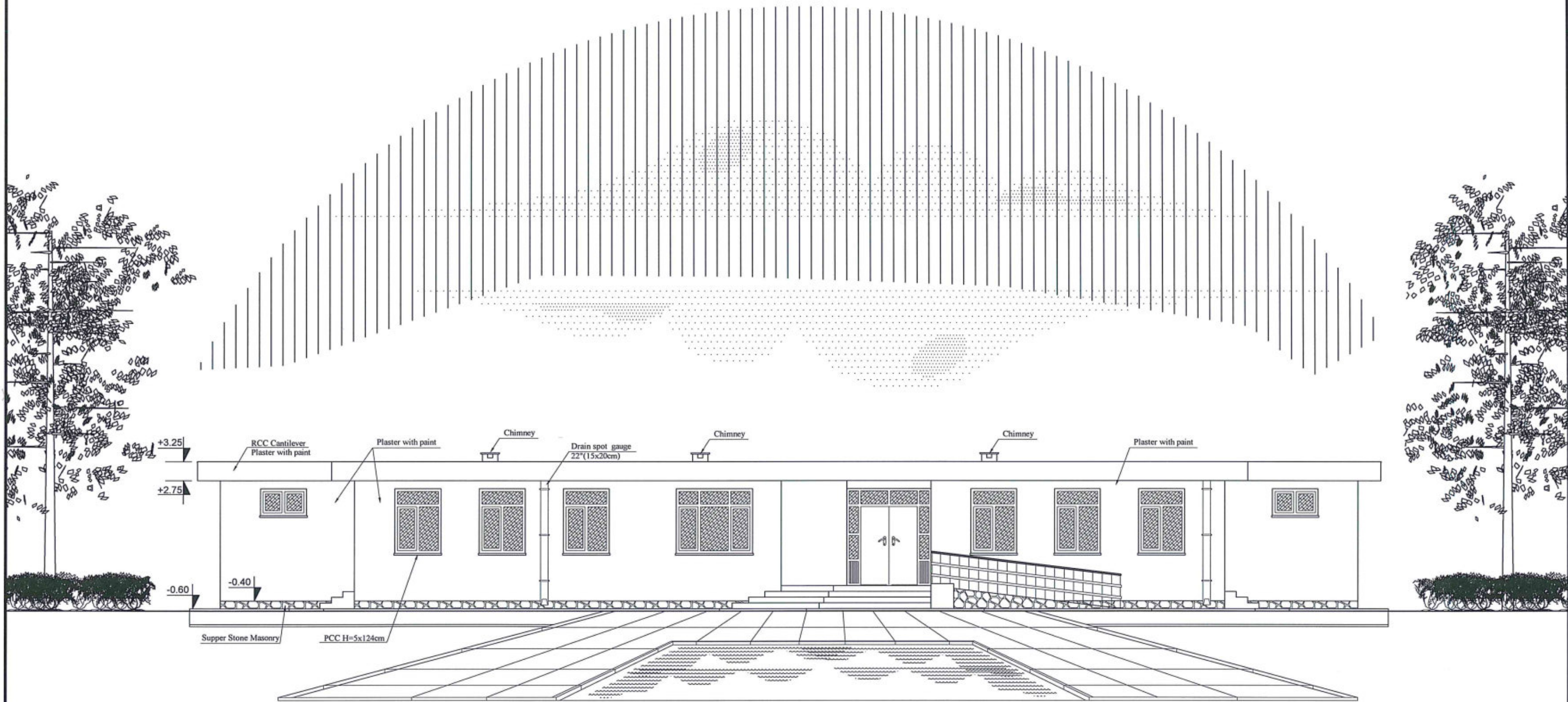
ARCHITECT/DESIGN
ZIAURAHMAN ZIA
PREPLANNED &
CHECKED BY
DAARTT
TECH- APPROVED BY

Combined technical
team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE
Pavement Plan

SHEET NO.

A
03
21



A
04 FRONT ELEVATION OF 6 CLASS ROOM RCC SLAB
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



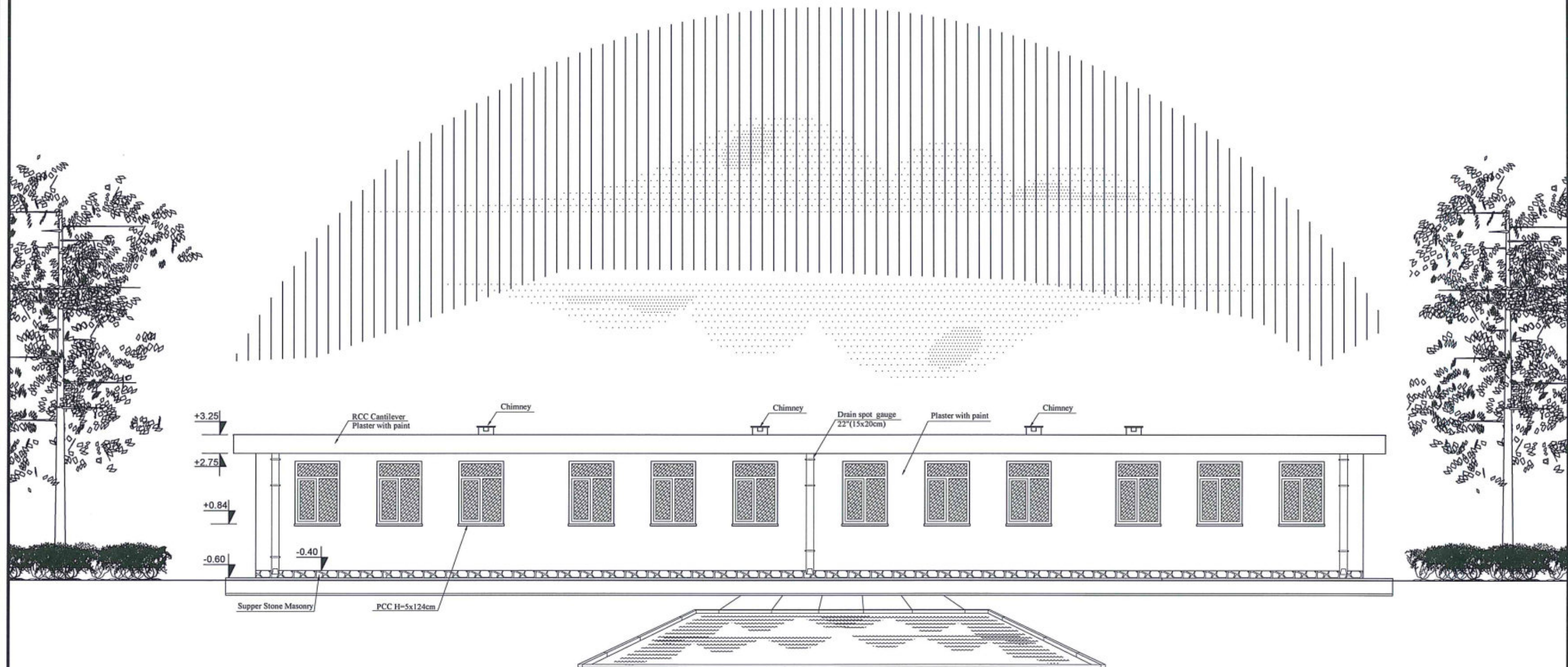
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AFGHANISTAN

ARCHITECT/DESIGN	ZIAURAHMAN ZIA	Combined technical team	MOE/MRRD/DAARTT
PREPLANNED & CHECKED BY	DAARTT	SCALE	AS SHOWN (A3)
TECH- APPROVED BY		DATE	12/08/2018

PROJECT NAME	6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE	Front Elevation

SHEET NO.

A04
21



A
05 BACK ELEVATION OF 6 CLASS ROOM RCC SLAB
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



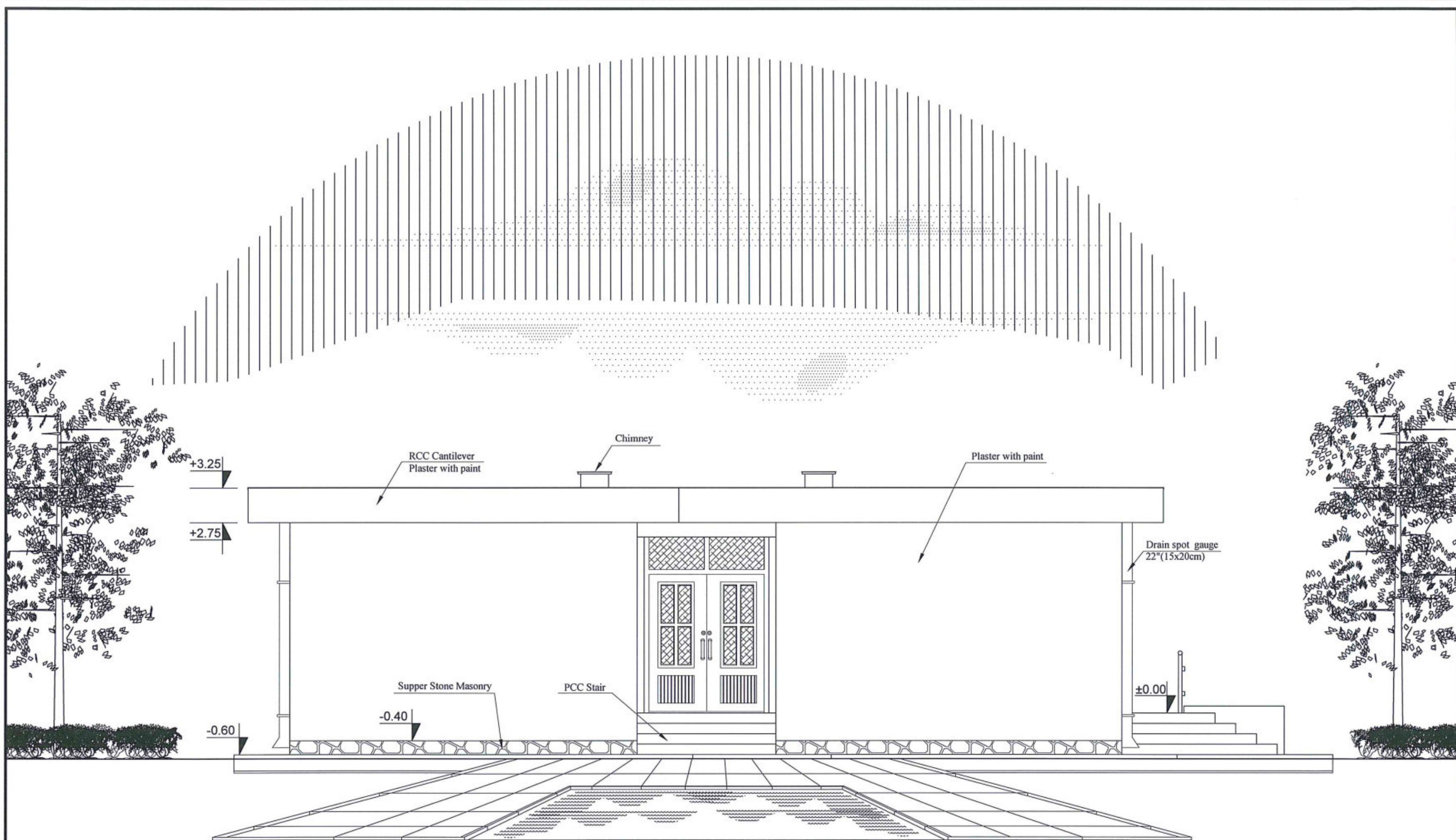
PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN	ZIAURAHMAN ZIA	Combined technical team	MOE/MRRD/DAARTT
PREPLANNED & CHECKED BY	DAARTT	SCALE	AS SHOWN (A3)
TECH- APPROVED BY		DATE	12/08/2018

PROJECT NAME	6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE	Back Elevation

SHEET NO.

A05
21



Side Elevation

A SIDE ELEVATION OF 6 CLASS ROOM RCC SLAB
06 SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN ZIAURAHMAN ZIA
PREPLANNED & CHECKED BY DAARTT
TECH- APPROVED BY

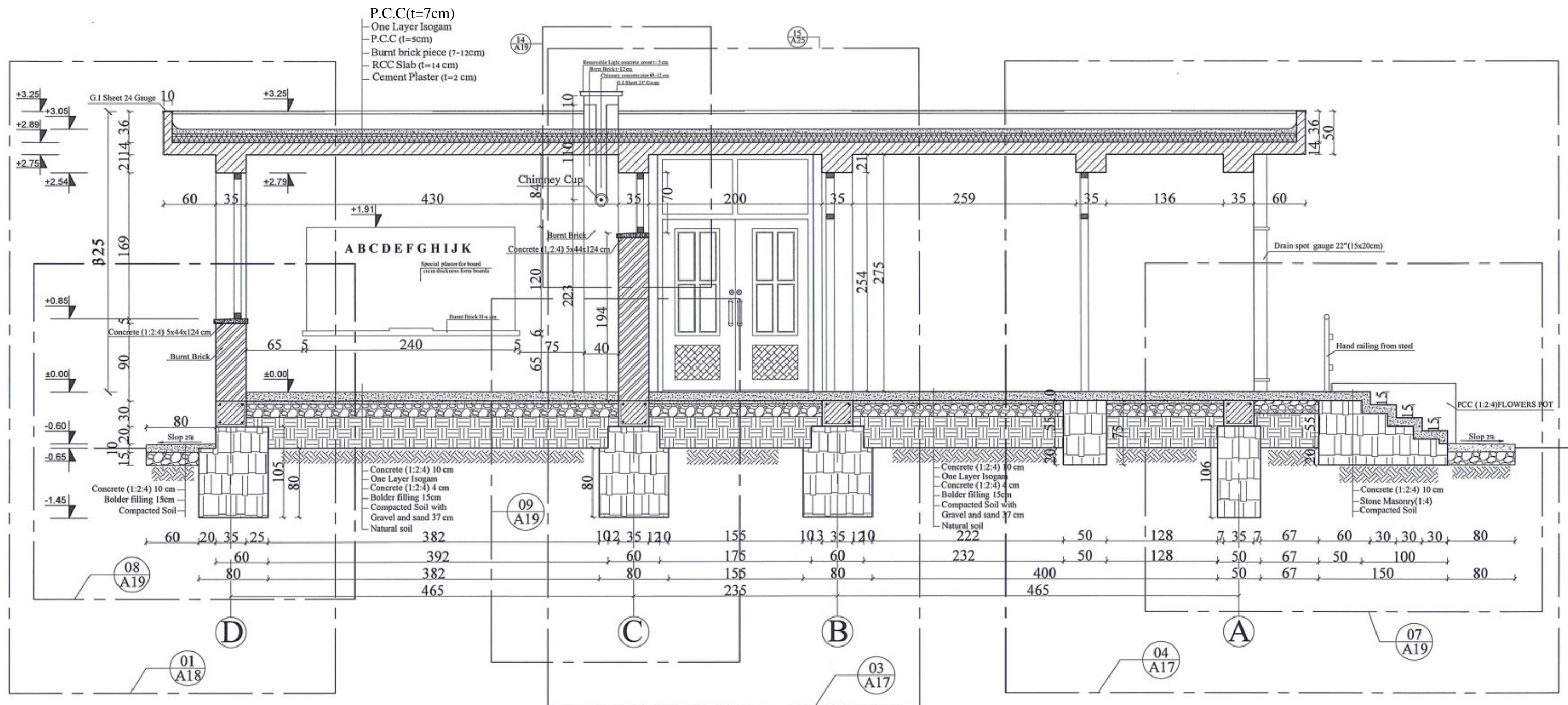
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Combined technical team MOE/MRRD/DAARTT
SCALE AS SHOWN (A3)
DATE 12/08/2018

PROJECT NAME 6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE Side Elevation

SHEET NO.

A06
21



A SECTION A-A OF 6 CLASS ROOM RCC SLAB
07 SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

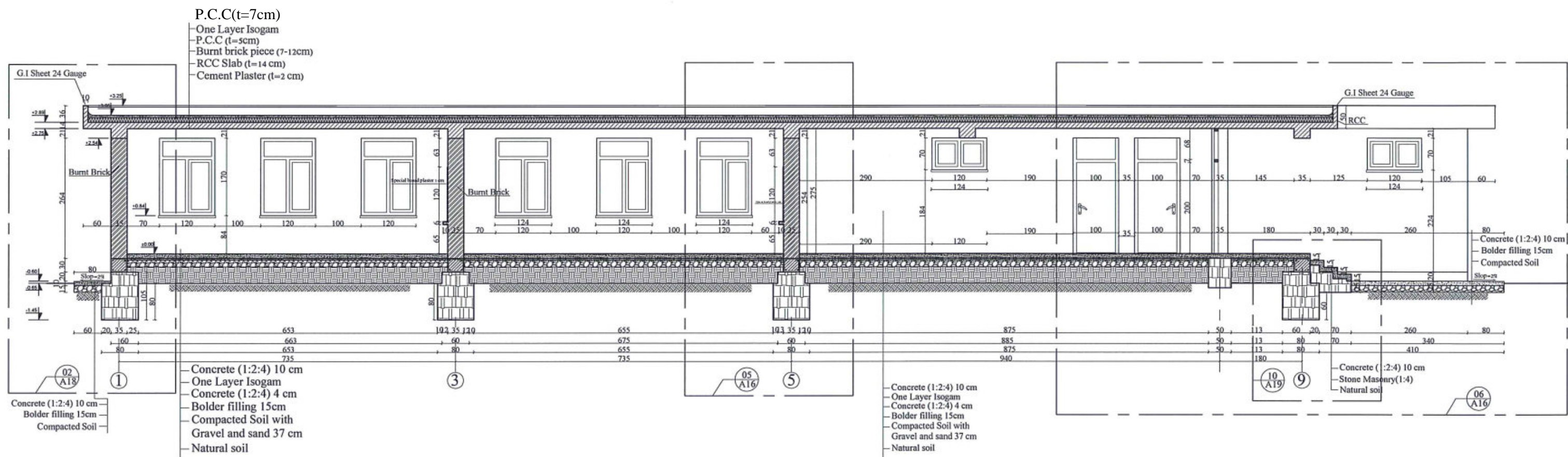
ARCHITECT/DESIGN ZIAURAHMAN ZIA
 PREPLANNED & CHECKED BY DAARTT
 TECH. APPROVED BY

Combined technical team MOE/MRRD/DAARTT
 SCALE AS SHOWN (A3)
 DATE 12/08/2018

PROJECT NAME 6 Classroom Burnt Brick RCC Slab H-275
 DRAWING TITLE Section A-A

SHEET NO.

A 07
21



A SECTION B-B OF 6 CLASS ROOM RCC SLAB
08 SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
PREPLANNED &
CHECKED BY
TECH- APPROVED BY

ZIAURAHMAN ZIA
DAARTT

[Signature]

Combined technical
team
SCALE
DATE

MOE/MRRD/DAARTT
AS SHOWN (A3)
12/08/2018

PROJECT NAME

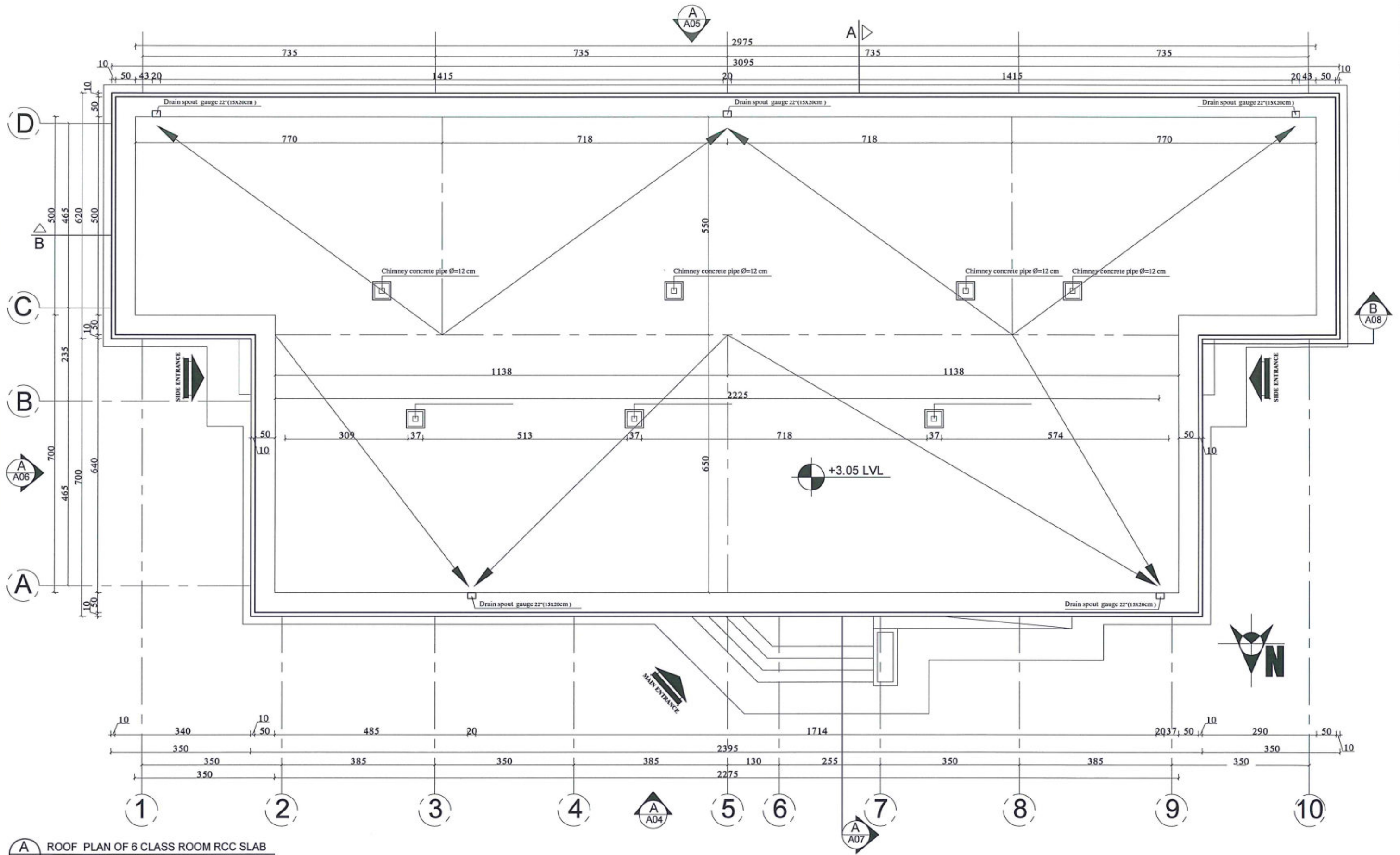
6 Classroom Burnt Brick RCC Slab H-275

DRAWING TITLE

Section B-B

SHEET NO.

A08
21



A
09 ROOF PLAN OF 6 CLASS ROOM RCC SLAB
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

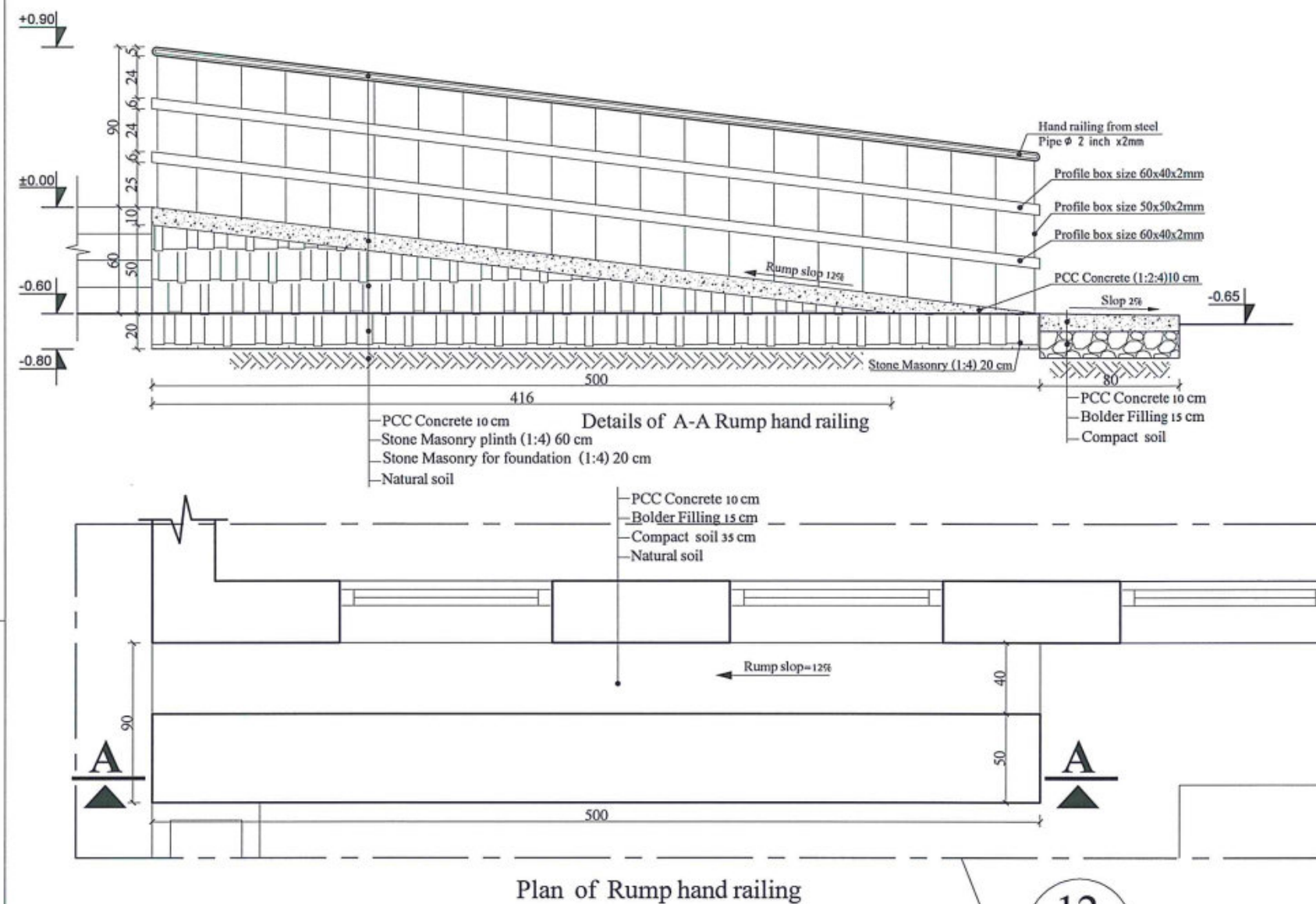
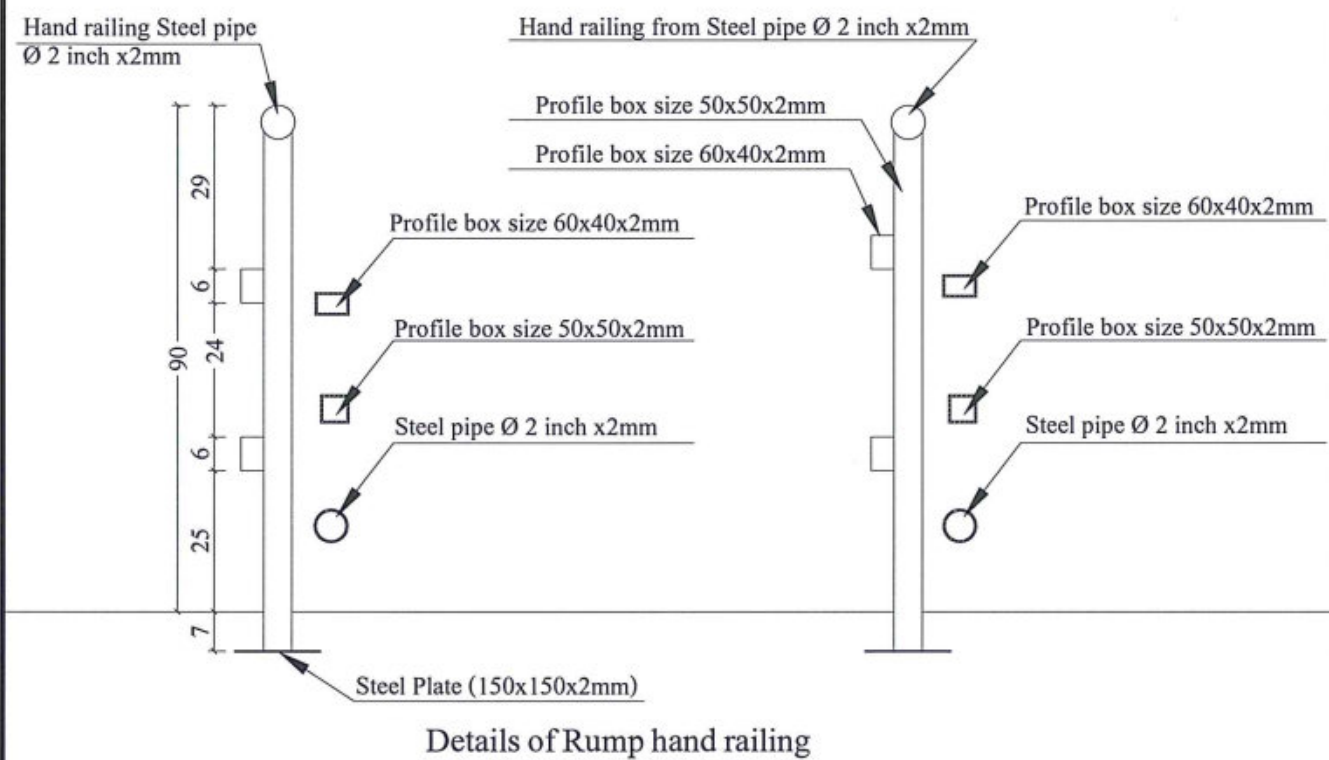
ARCHITECT/DESIGN
ZIAURAHMAN ZIA
PREPLANNED &
CHECKED BY
DAARTT
TECH- APPROVED BY

Combined technical
team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE
Roof Plan

SHEET NO.

A
09
21



A
10 PLAN & SECTION WITH DETAILS OF 12 RUMP HAND RAILING
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



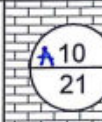
PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
ZIAURAHMAN ZIA
PREPLANNED &
CHECKED BY
DAARTT
TECH- APPROVED BY

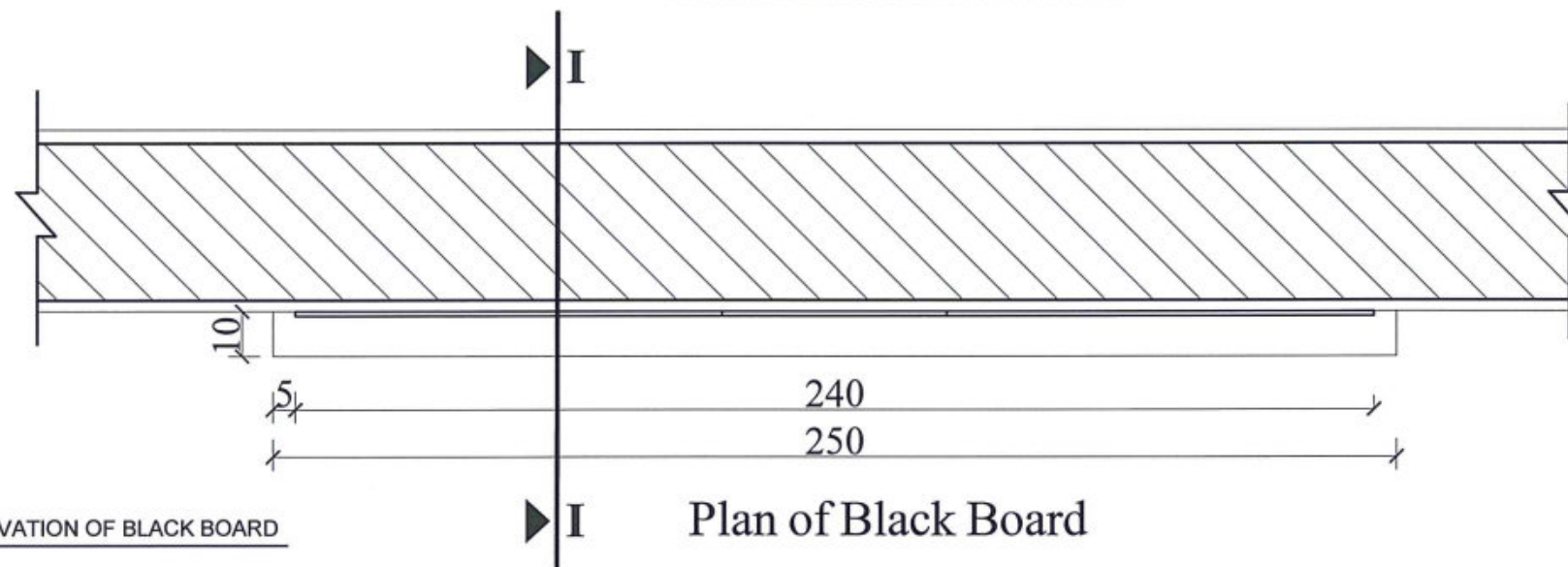
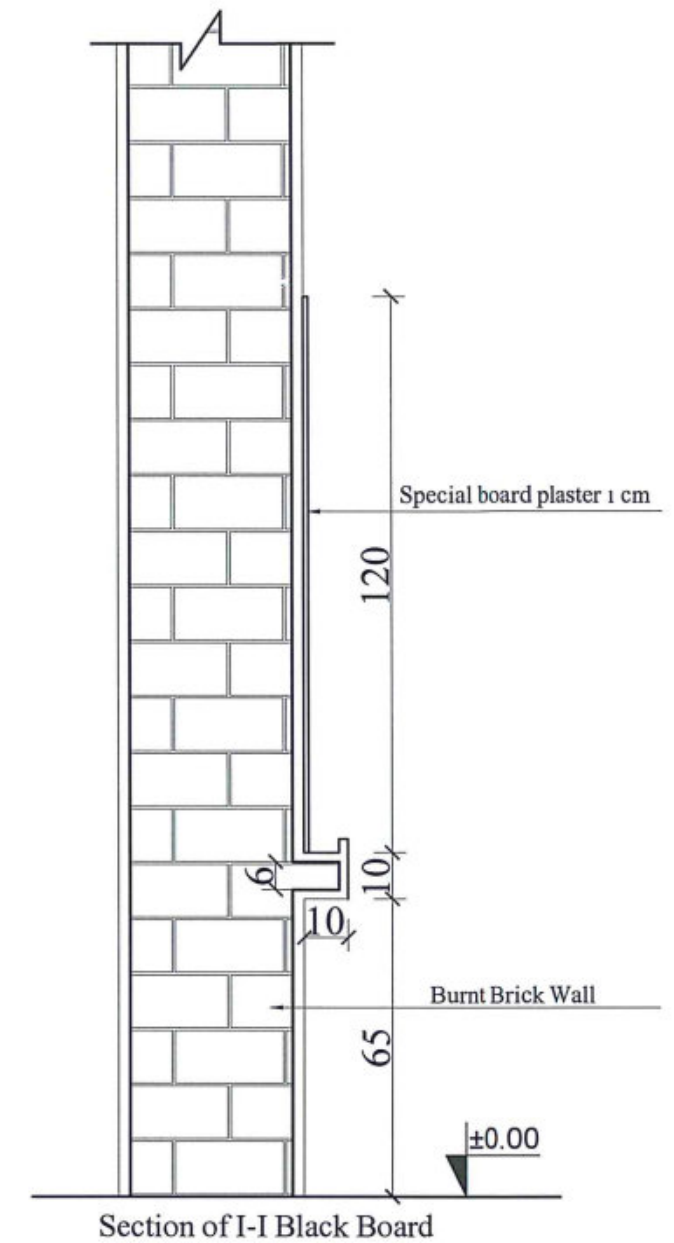
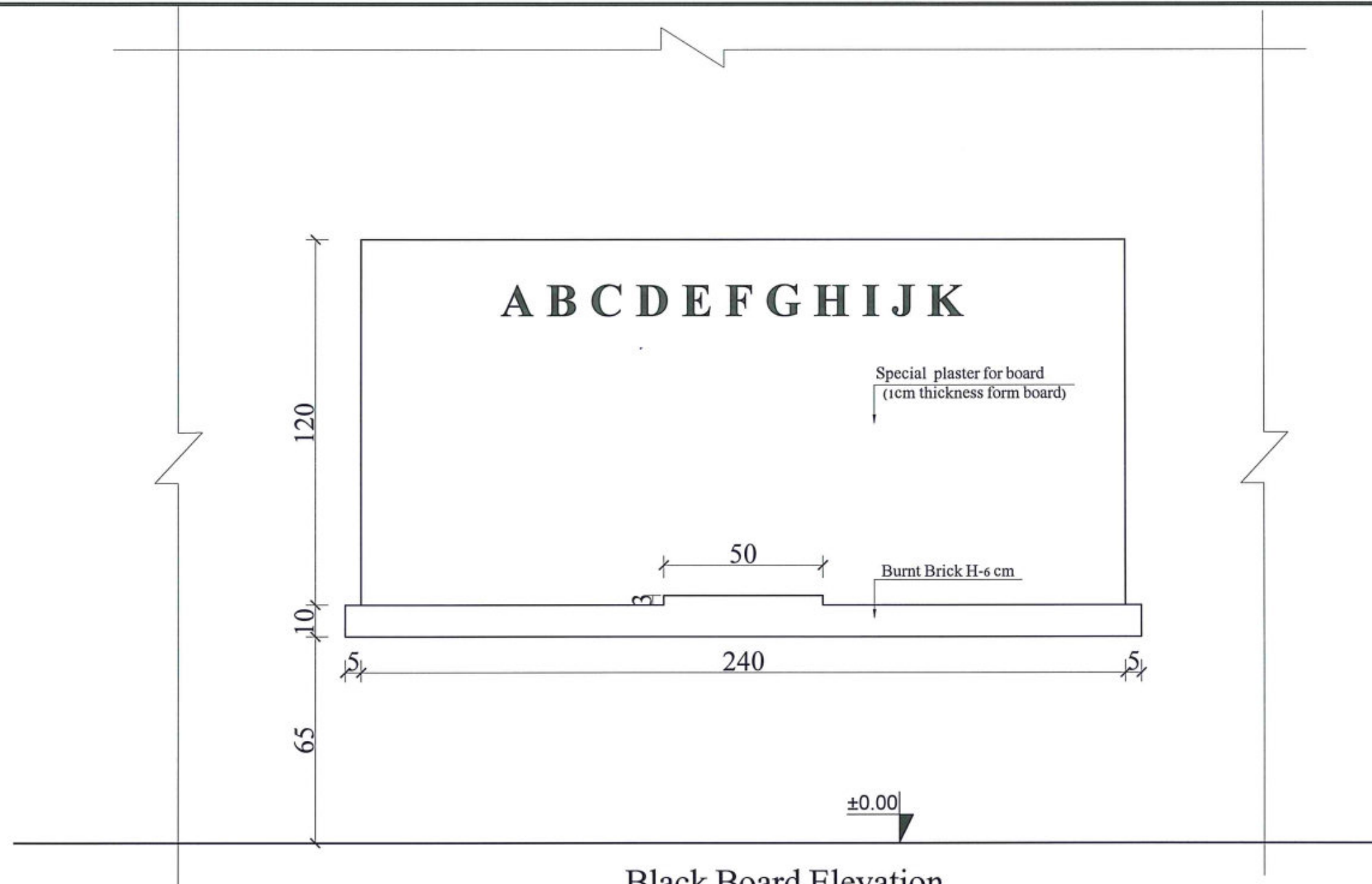
Combined technical
team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE
Plan & Section with Details of 12 Rump Hand railing

SHEET NO.



10
21



A
11
PLAN & SECTION & ELEVATION OF BLACK BOARD
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

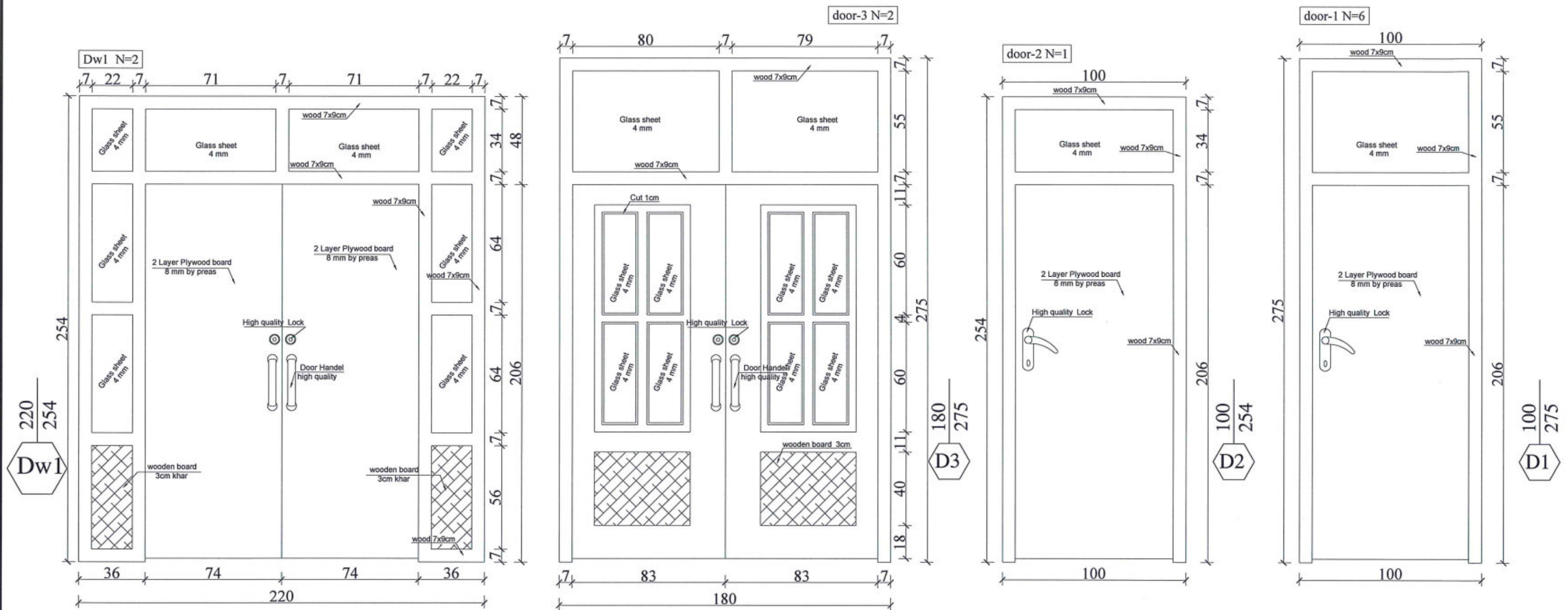
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ZIAURAHMAN ZIA
PREPLANNED &
CHECKED BY
DAARTT
TECH- APPROVED BY

Combined technical
team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE
Plan & Section & Elevation of Black Board

SHEET NO.

A11
21



A DETAILS OF DOORS
 SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
 OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
 AFGHANISTAN

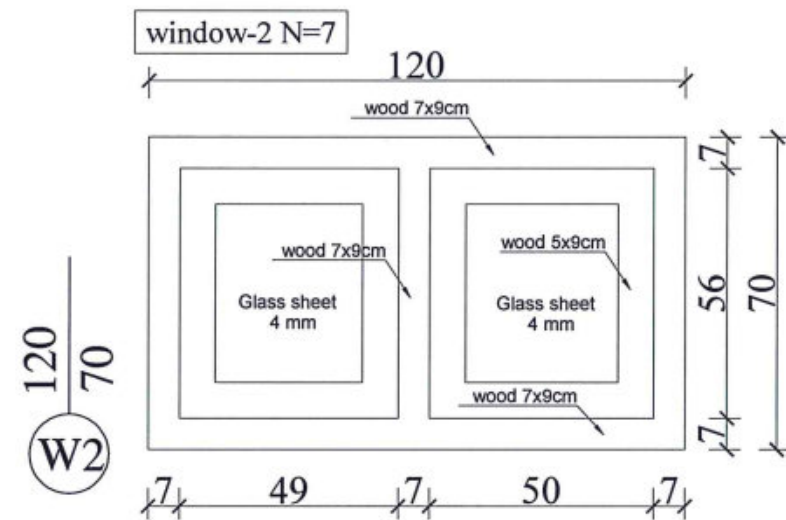
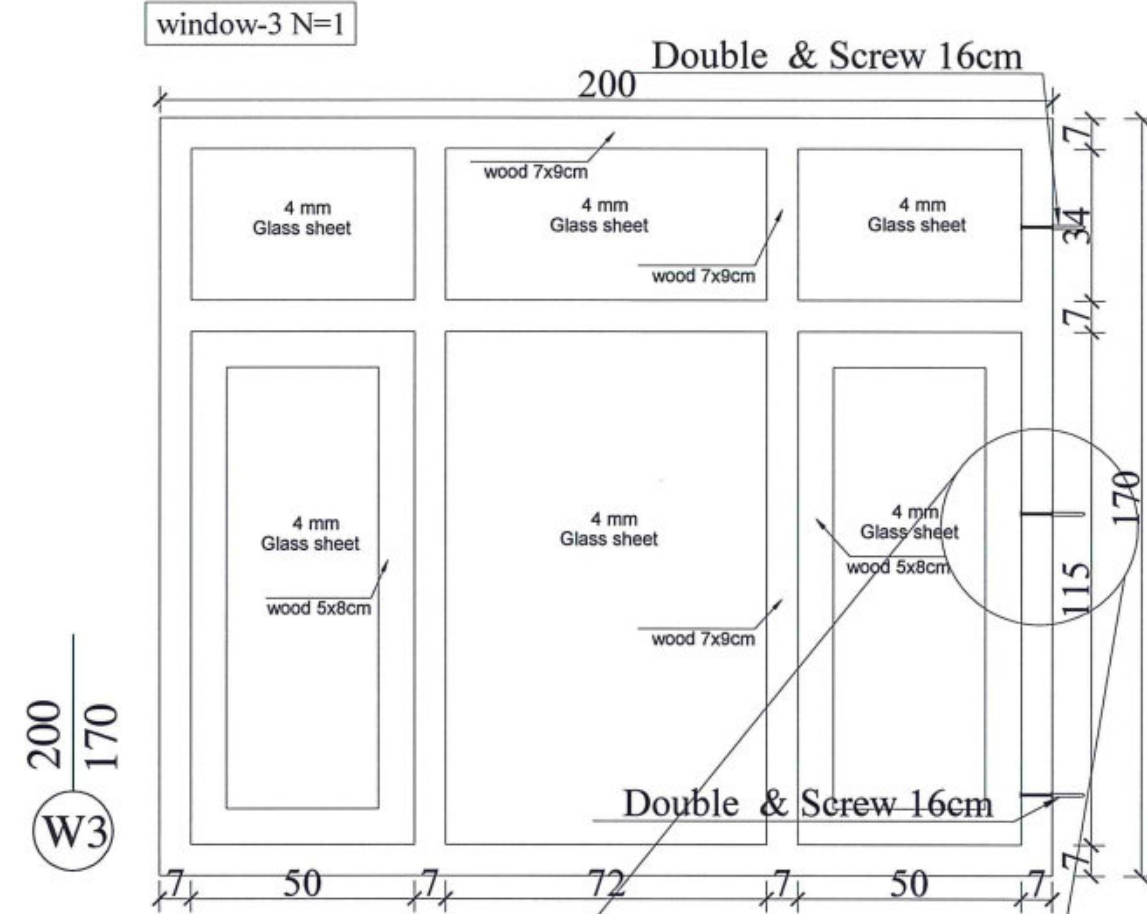
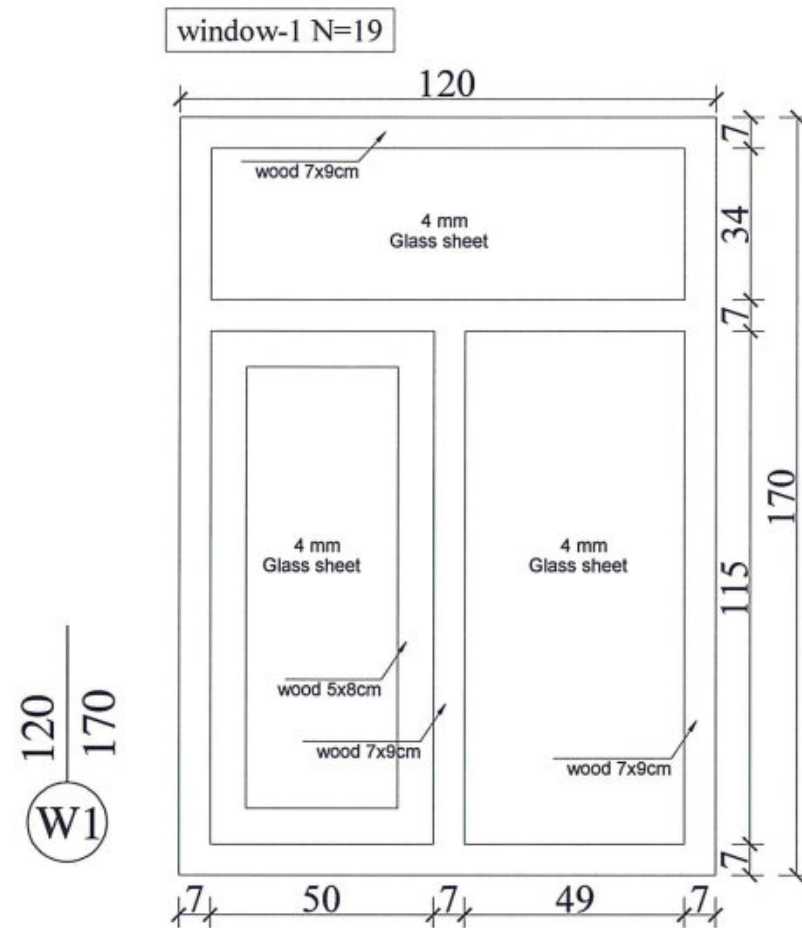
ARCHITECT/DESIGN
 ZIAURAHMAN ZIA
 PREPLANNED &
 CHECKED BY
 DAARTT
 TECH- APPROVED BY

Combined technical
 team
 MOE/MRRD/DAARTT
 SCALE
 AS SHOWN (A3)
 DATE
 12/08/2018

PROJECT NAME
 6 Classroom Burnt Brick RCC Slab H-275
 DRAWING TITLE
 Details of Doors

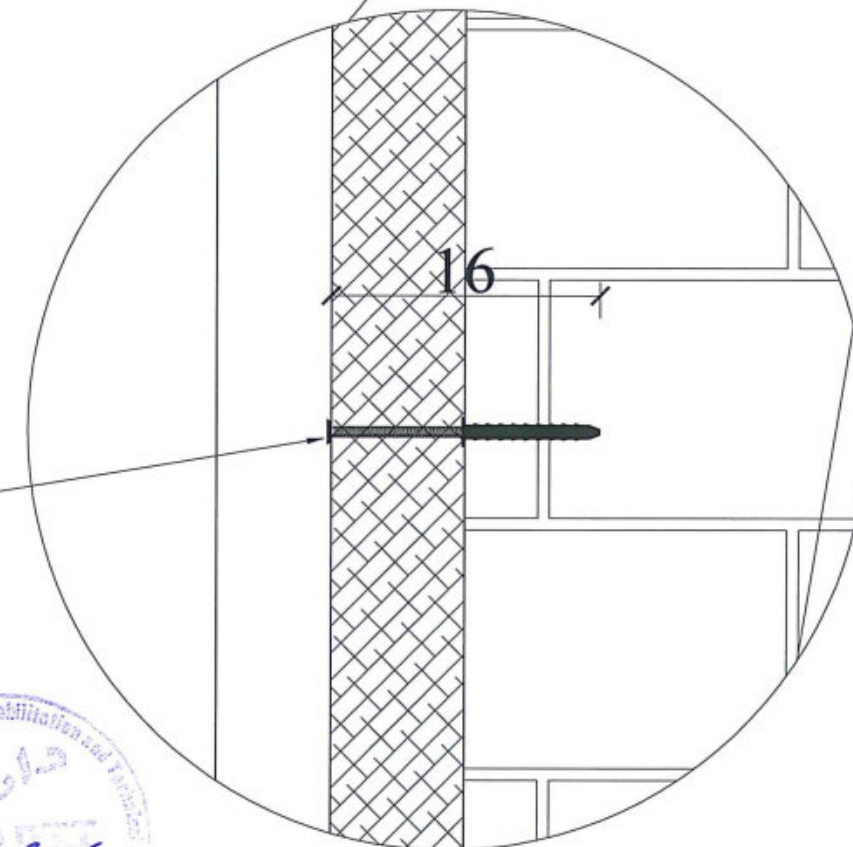
SHEET NO.

A12
 21



Detail of Window

Double & Screw
Ø10mmL= 16cm



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

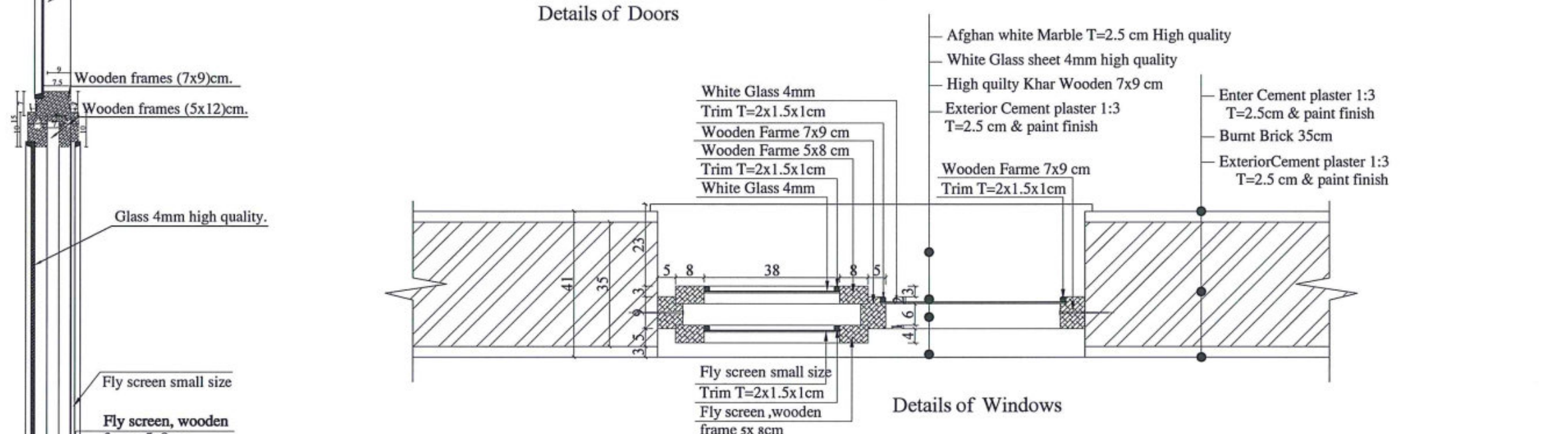
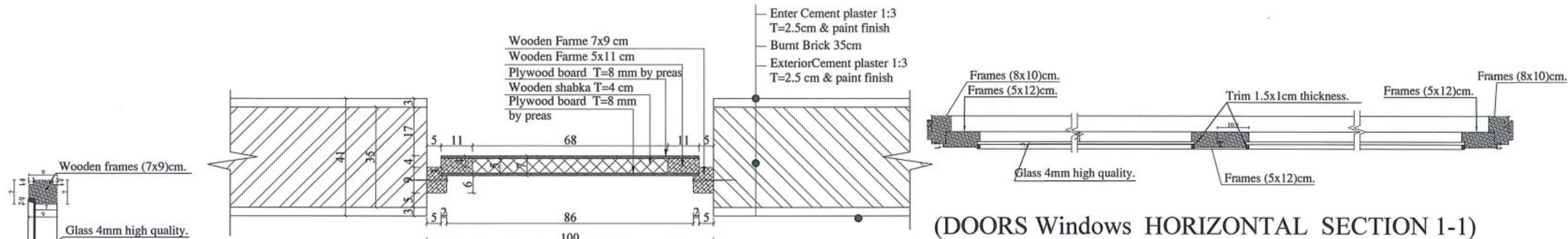
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ZIAURAHMAN ZIA
PREPLANNED &
CHECKED BY
DAARTT
TECH- APPROVED BY

COMBINED
TECHNICAL TEAM
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
2018-05-29

PROJECT NAME
6 CLASSROOM BURNT BRICK WALL WITH RCC
SLAB, H=2.89
DRAWING TITLE
DETAILS OF WINDOWS

SHEET NO.

A13
19



Note: The dimensions of wooden members are as finished and final dimensions.



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PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
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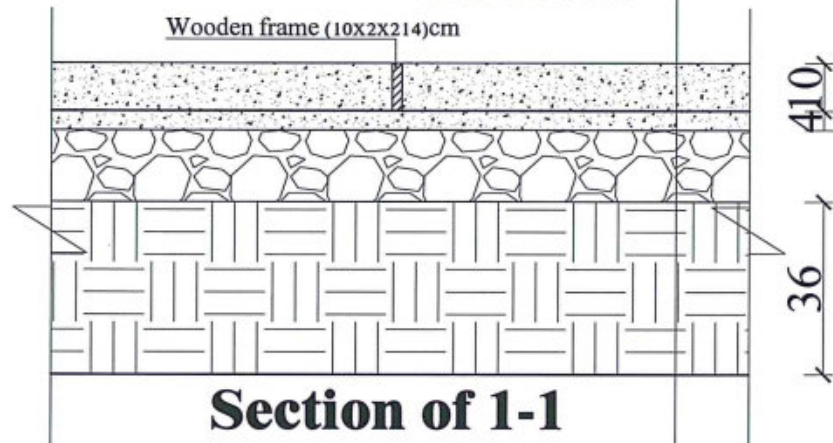
COMBINED
TECHNICAL TEAM
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
2018-05-29

PROJECT NAME
6 CLASSROOM BURNT BRICK WALL WITH RCC
SLAB, H=2.89
DRAWING TITLE
SECTIONS OF WINDOWS & DOORS

SHEET NO.

A14
19

Concrete (1:2:4) 10 cm
One Layer Isogam
Concrete (1:2:4) 4 cm
Bolder filling 15cm
Compacted Soil with Gravel
and sand 37cm
Natural soil

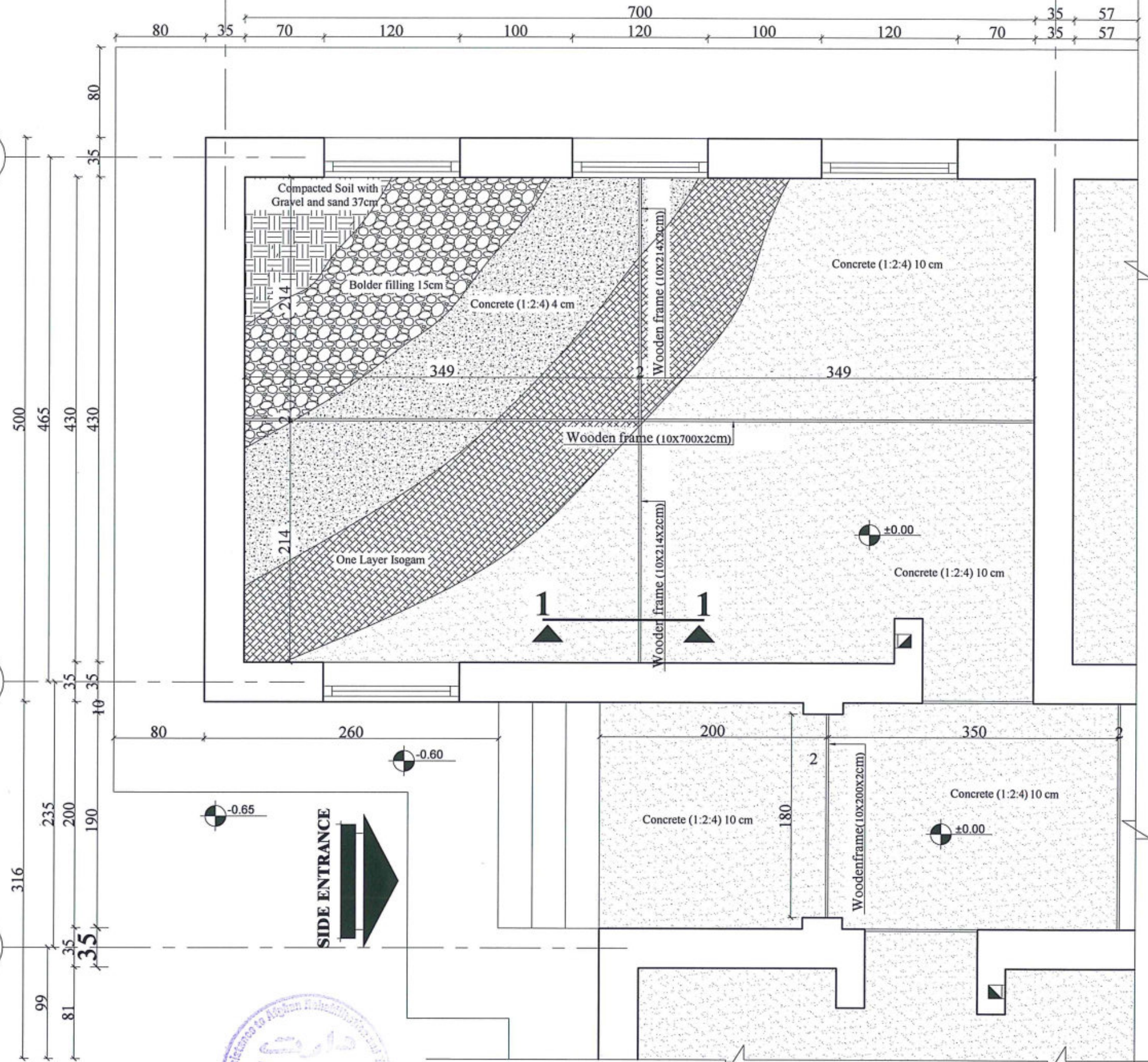


**Section of 1-1
Floor PCC Concrete**

D

C

B



Details of Floor PCC Concrete



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PROTOTYPE SCHOOL DESIGN IN
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DAARTT



COMBINED
TECHNICAL TEAM
SCALE
DATE

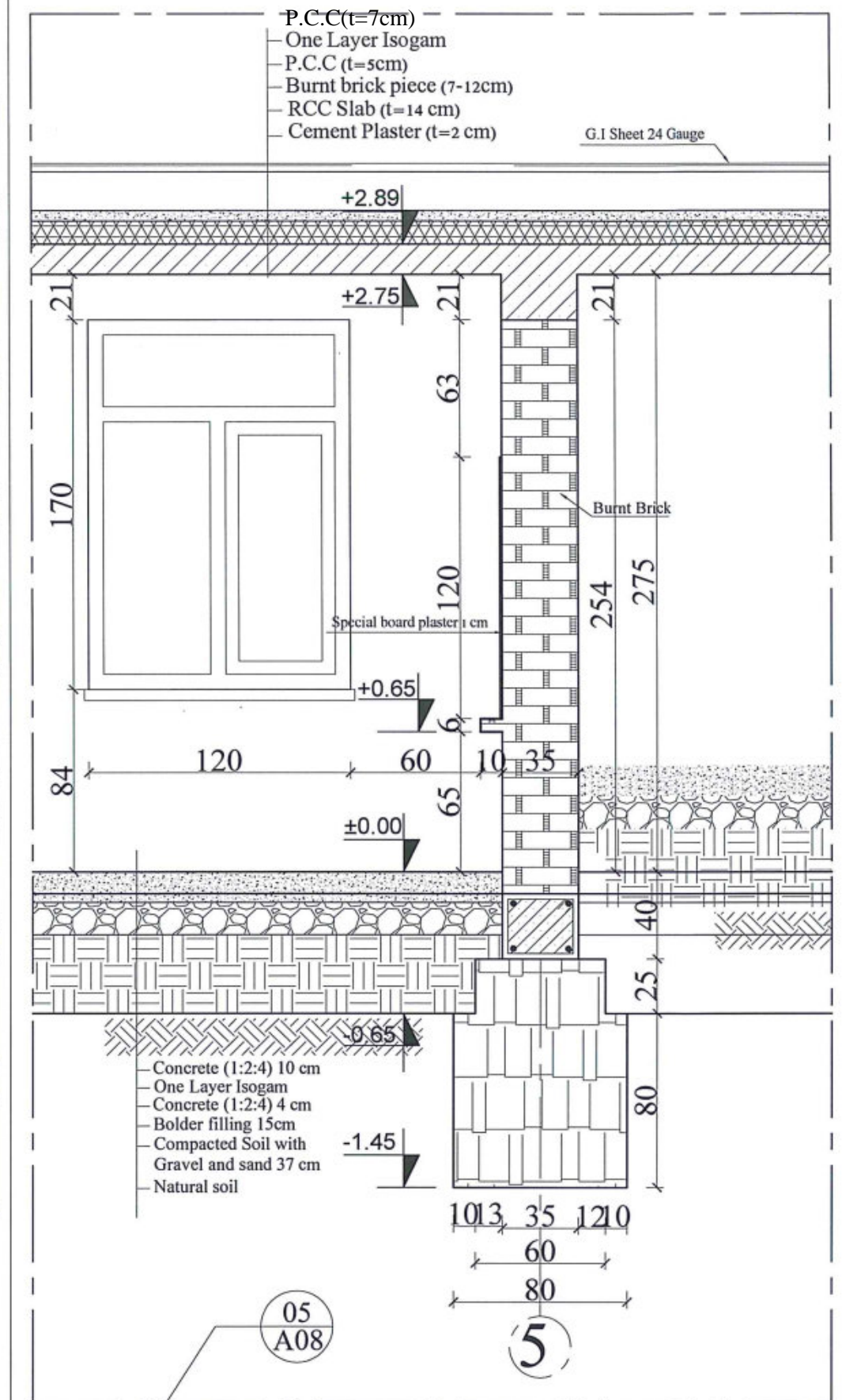
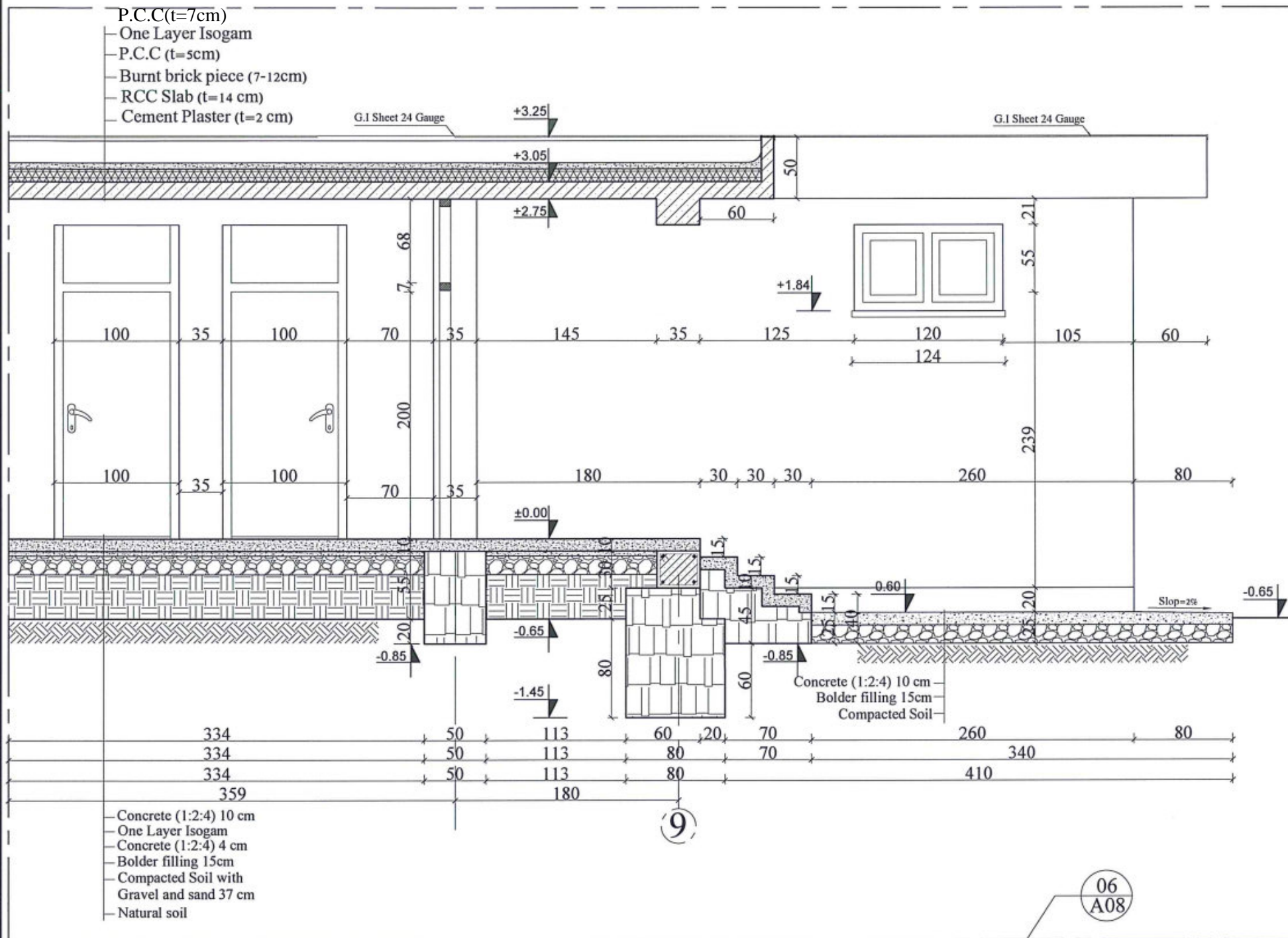
MOE/MRRD/DAARTT
AS SHOWN (A3)
2018-05-29

PROJECT NAME
DRAWING TITLE

6 CLASSROOM BURNT BRICK WALL WITH RCC
SLAB, H=2.89
DETAILS OF FOOR PCC

SHEET NO.

A15
19



A
 16
 DETAILS OF (5,6)
 SCALE: NO SCALE



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 OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
 AFGHANISTAN

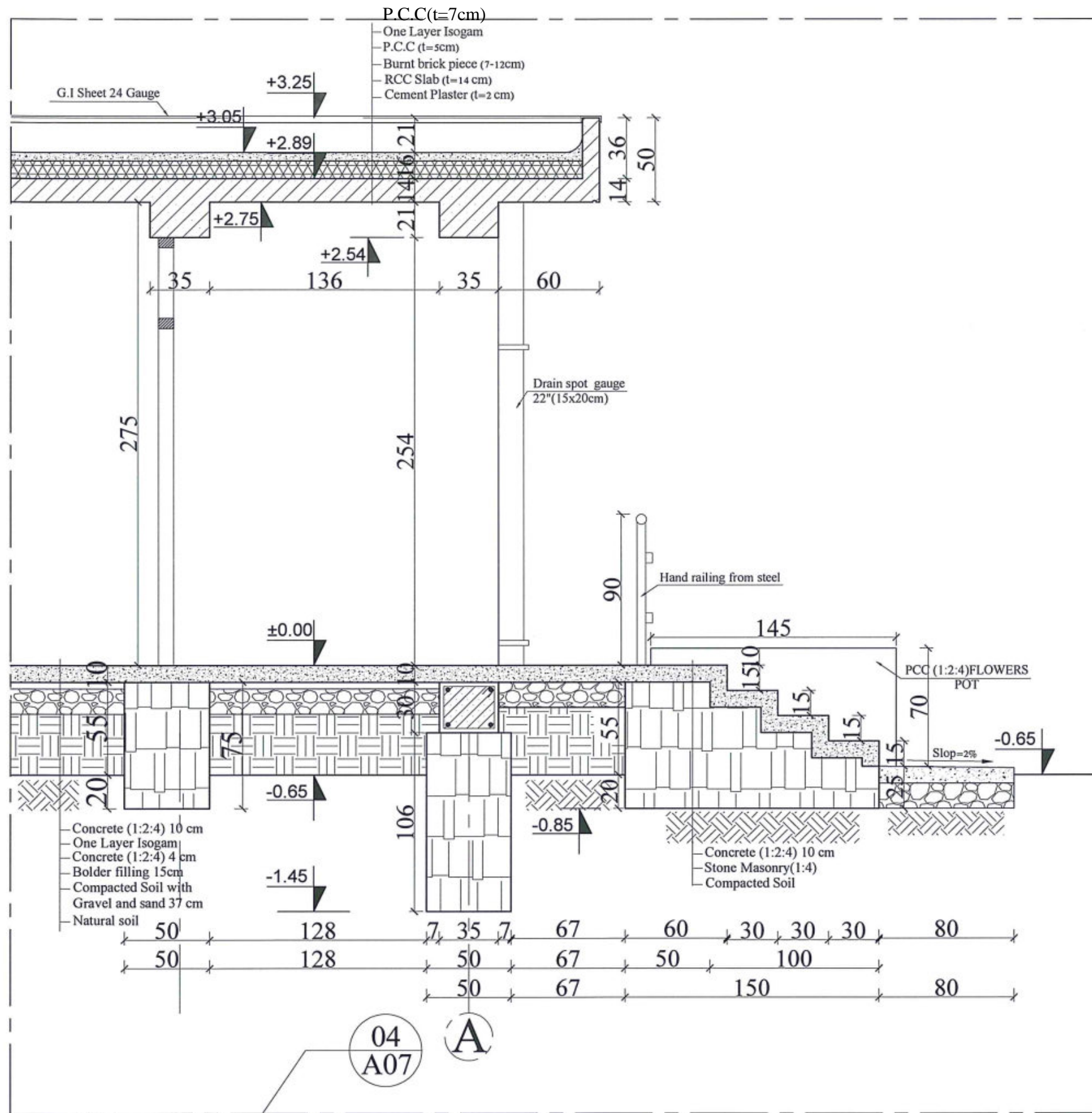
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 TECH. APPROVED BY

Combined technical
 team
 MOE/MRRD/DAARTT
 SCALE
 AS SHOWN (A3)
 DATE
 12/08/2018

PROJECT NAME
 6 Classroom Burnt Brick RCC Slab H-275
 DRAWING TITLE
 Details of (5,6)

SHEET NO.

16
 21



A
17
DETAILS OF (3,4)
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



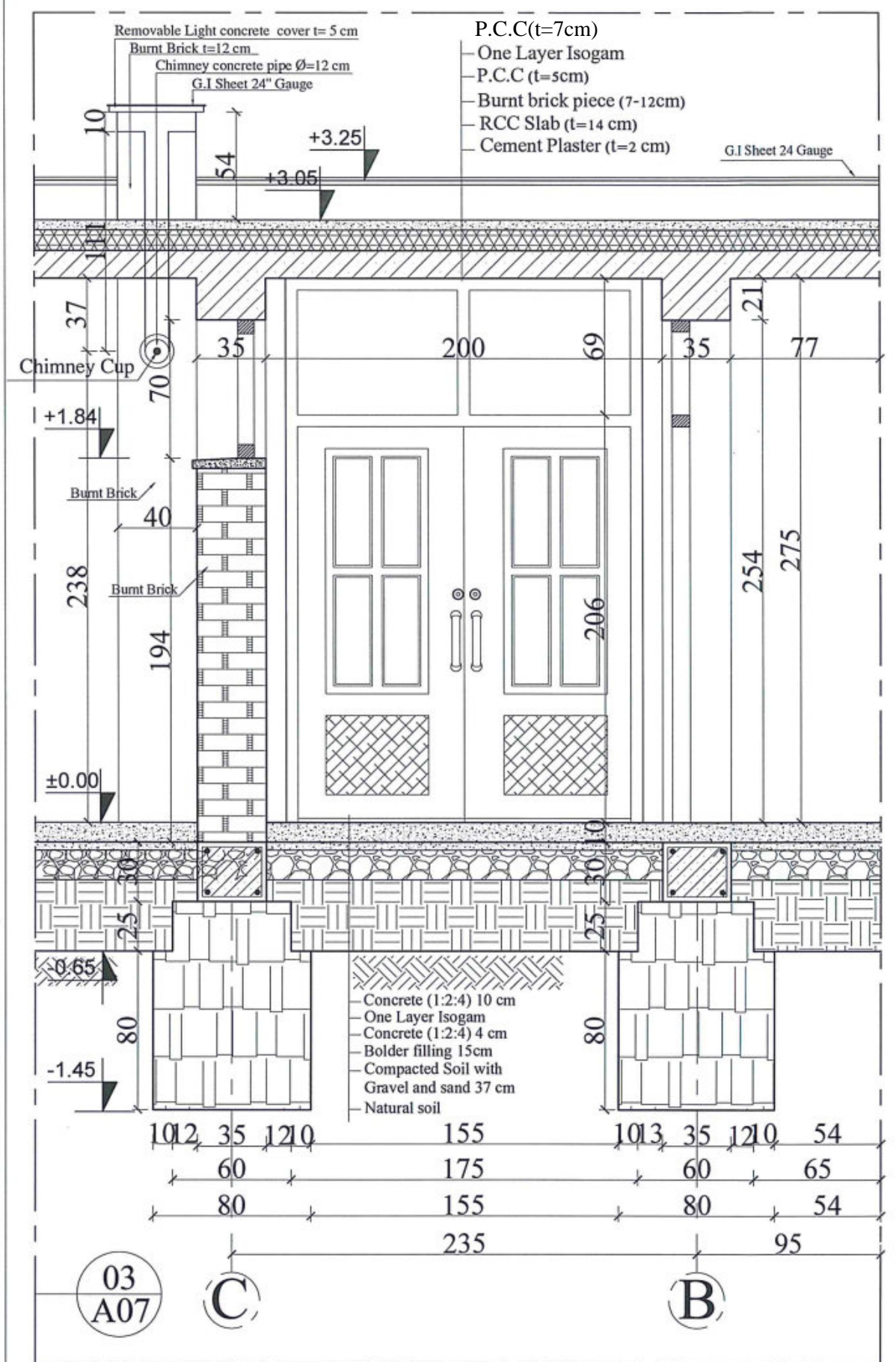
PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

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ZIAURAHMAN ZIA
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team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE
Details of (3,4)

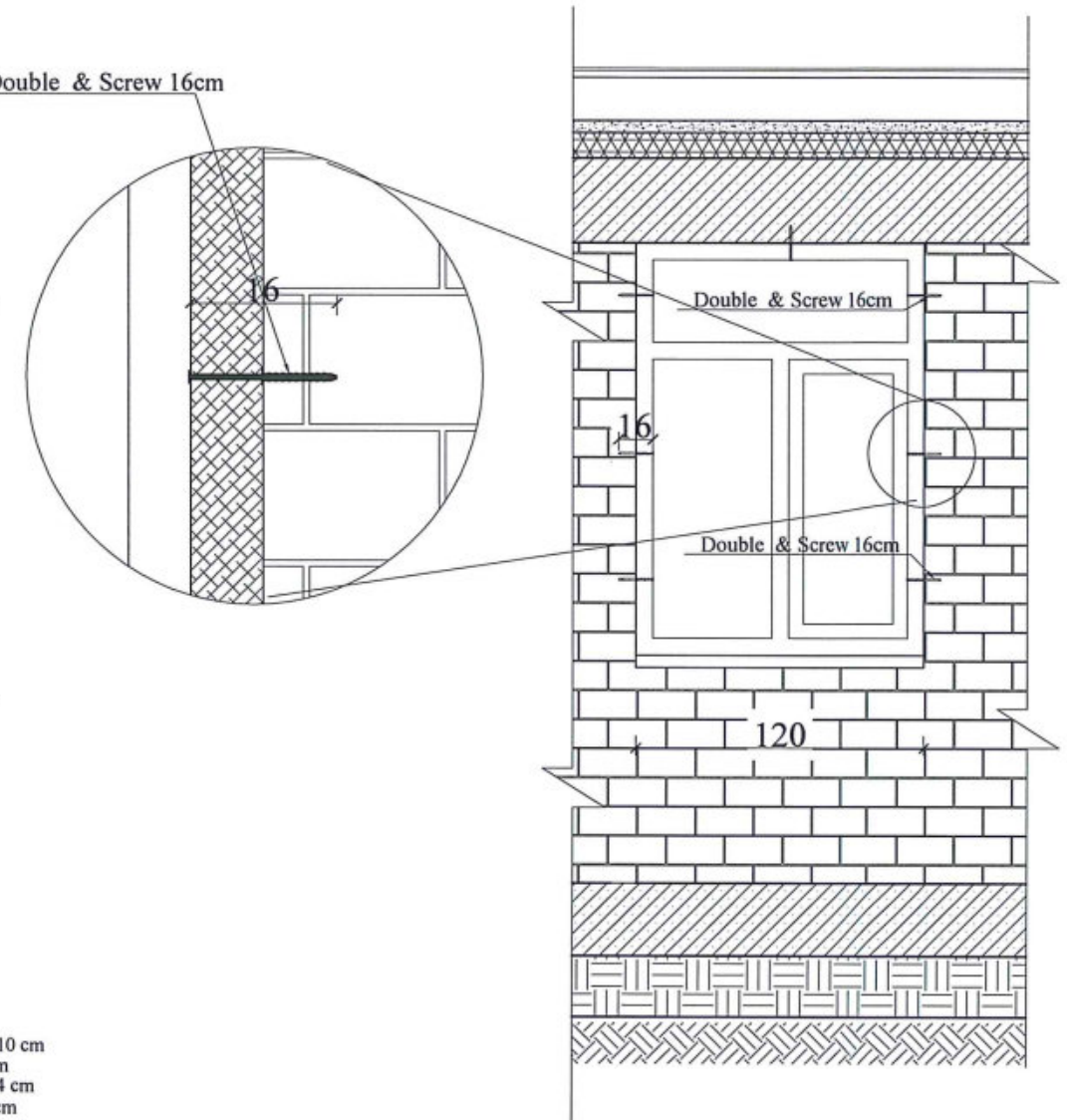
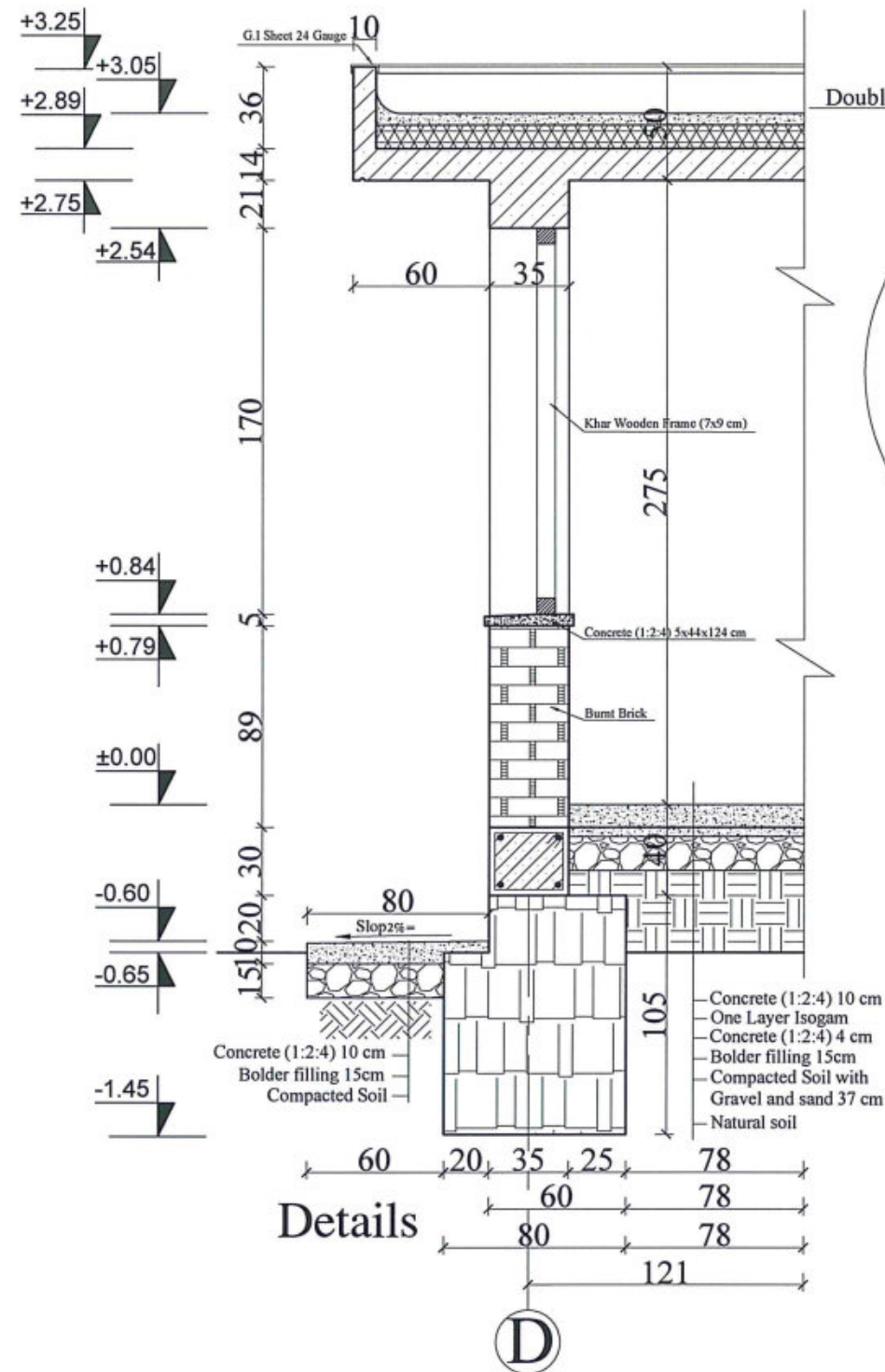
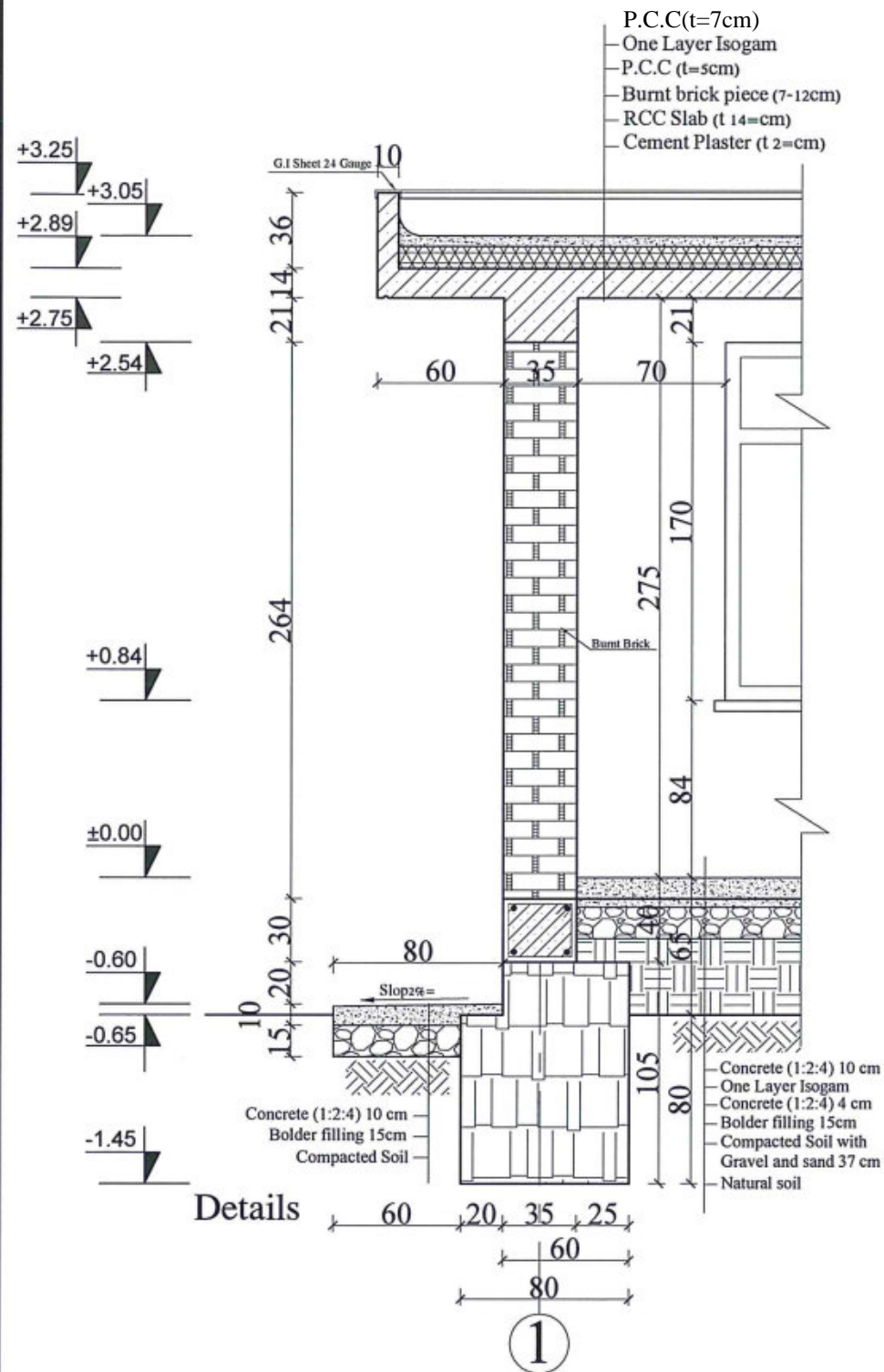
SHEET NO.
A17
21



03
A07

C

B



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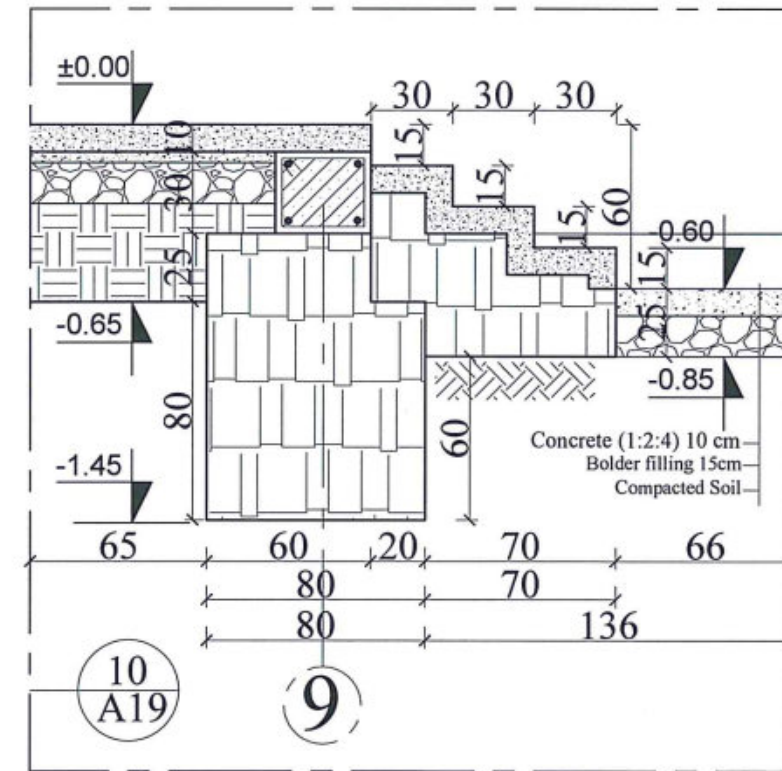
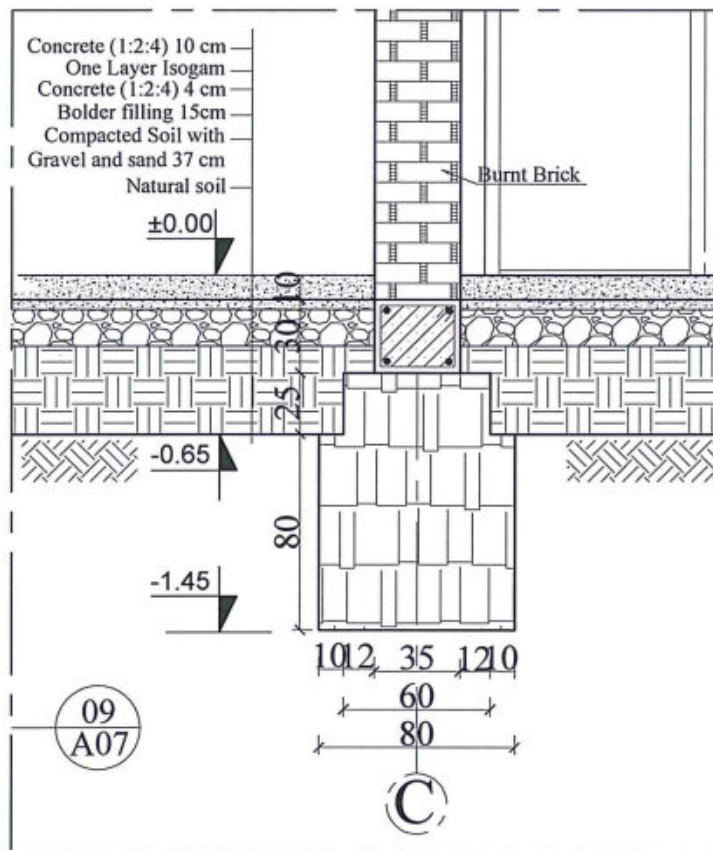
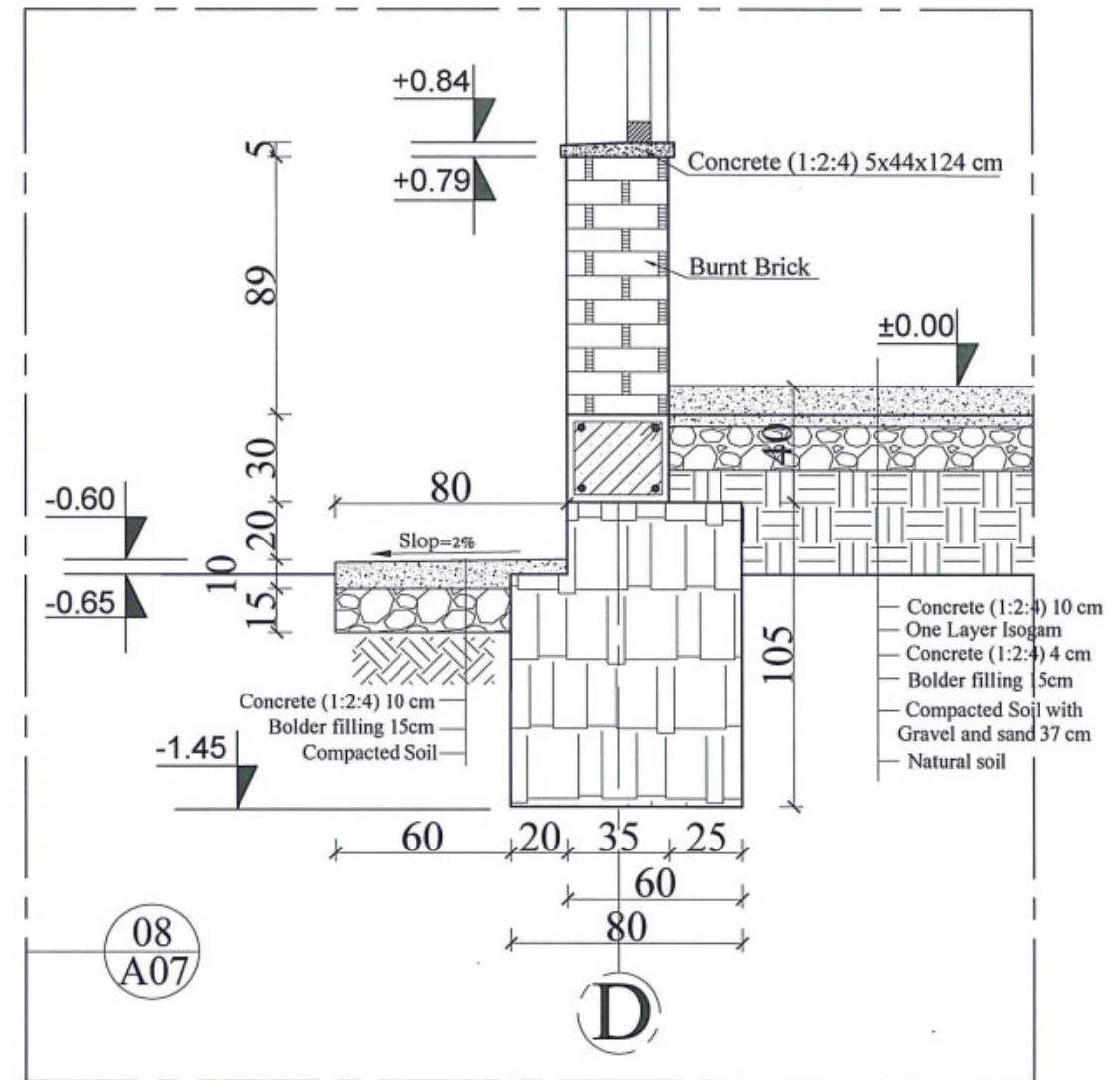
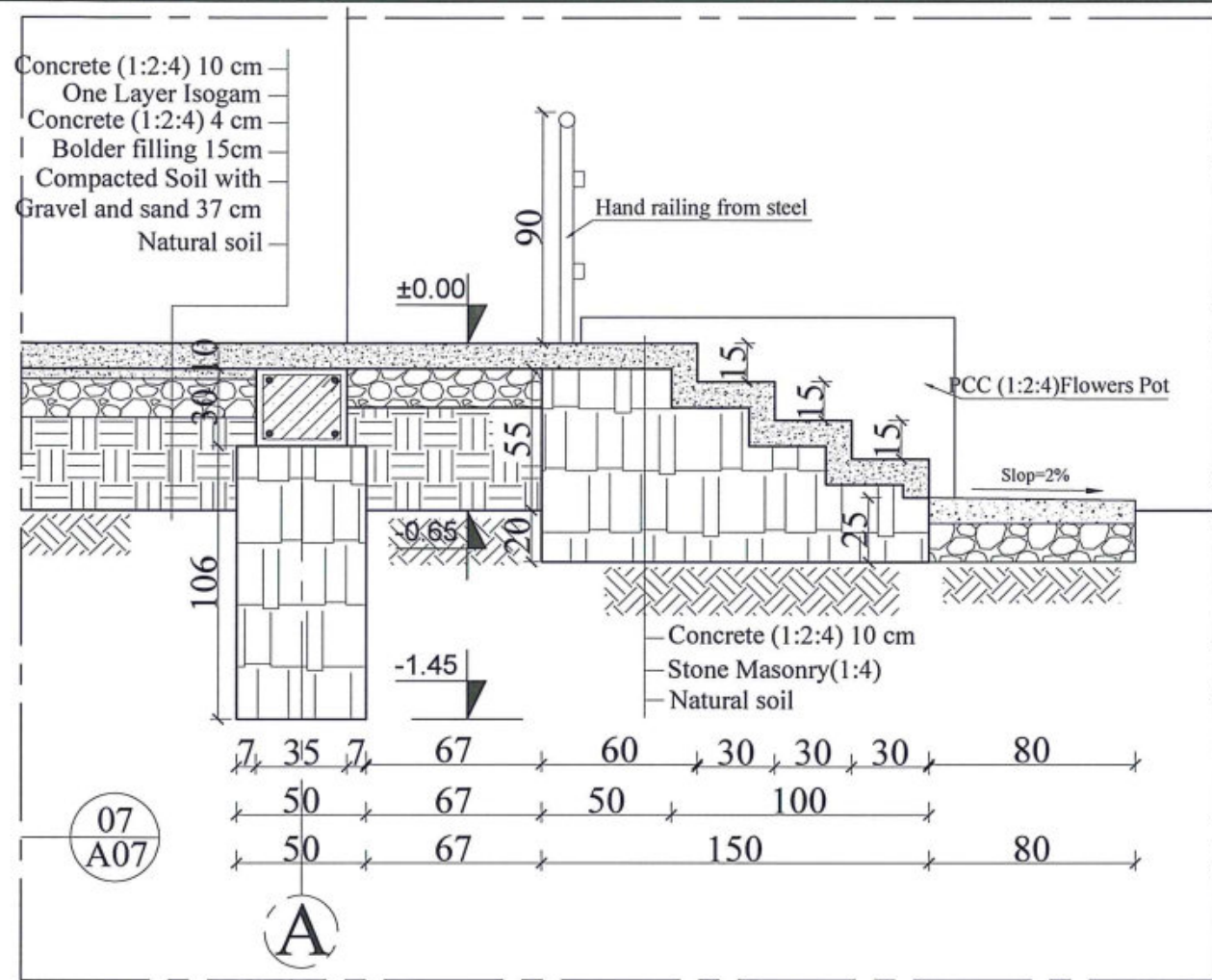
PROTOTYPE SCHOOL DESIGN IN
 AFGHANISTAN

ARCHITECT/DESIGN	ZIAURAHMAN ZIA	COMBINED TECHNICAL TEAM	MOE/MRRD/DAARTT
PREPLANNED & CHECKED BY	DAARTT	SCALE	AS SHOWN (A3)
TECH-APPROVED BY		DATE	2018-05-29

PROJECT NAME	6 CLASSROOM BURNT BRICK WALL WITH RCC SLAB, H=2.89
DRAWING TITLE	DETAILS OF FOUNDATION (D,1)

SHEET NO.

A18
19



A
19

DETAILS OF (7,8,9,10)
SCALE: NO SCALE



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OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
ZIAURAHMAN ZIA

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DAARTT

TECH- APPROVED BY

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team
MOE/MRRD/DAARTT

SCALE
AS SHOWN (A3)

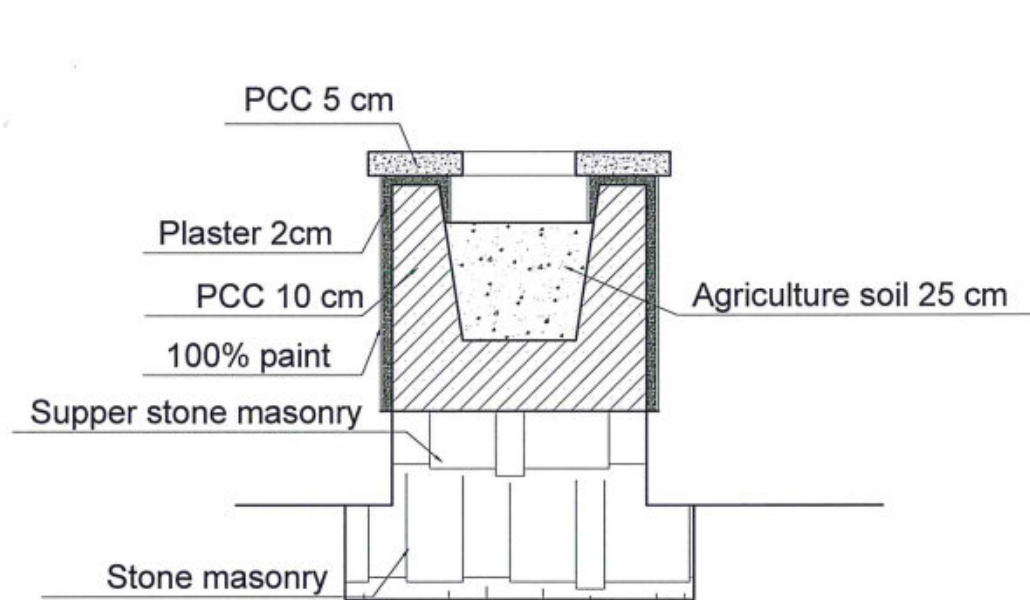
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275

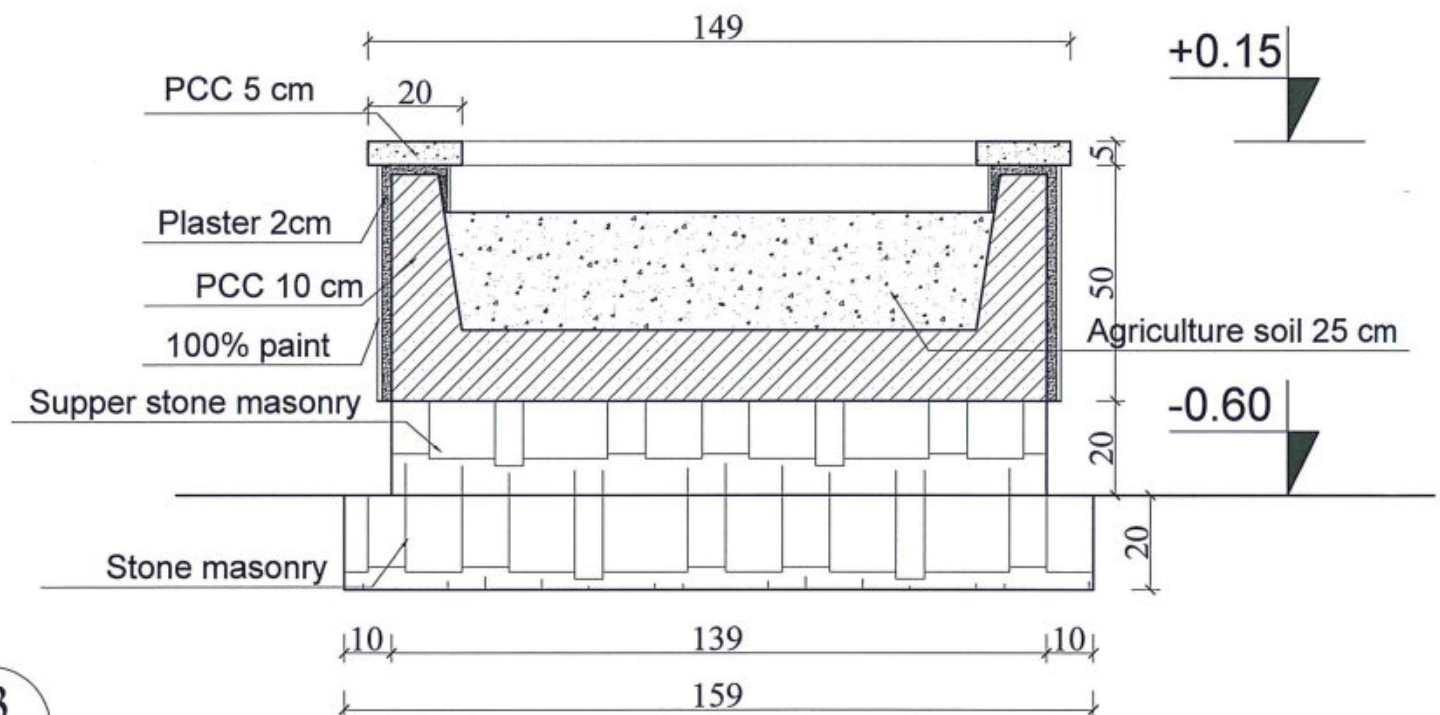
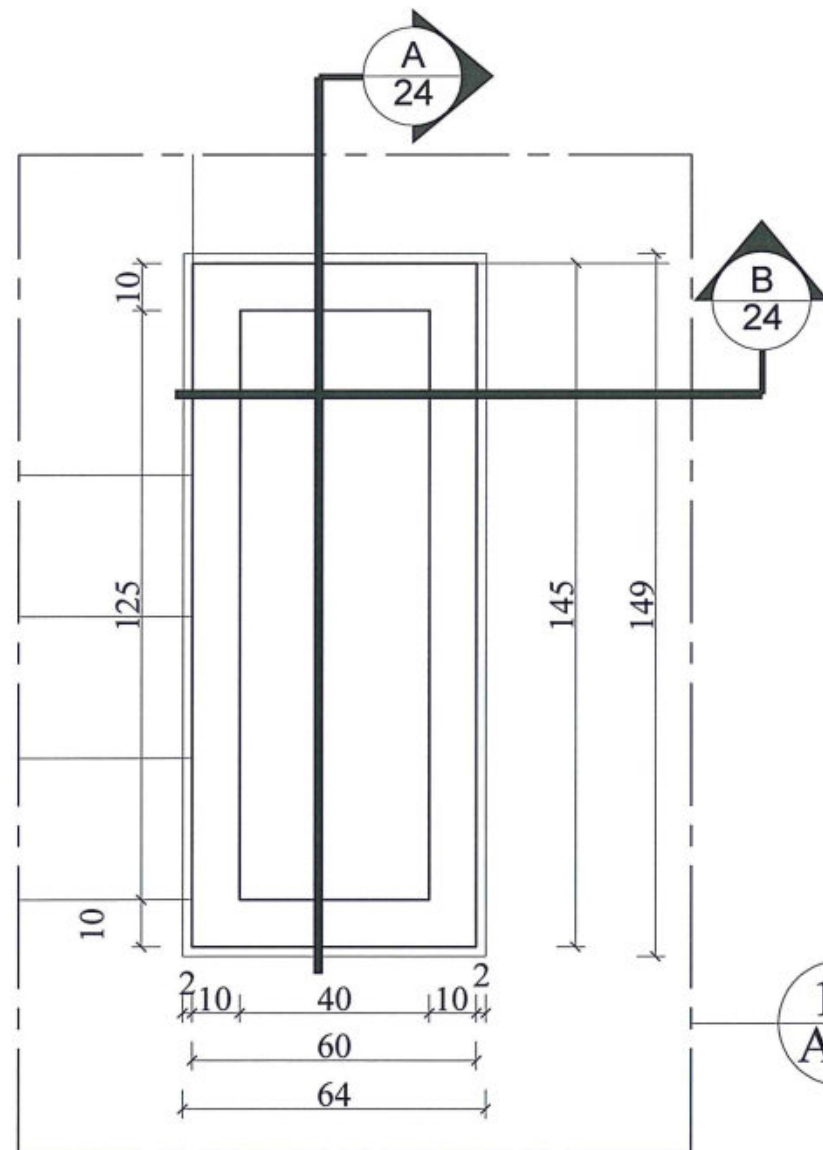
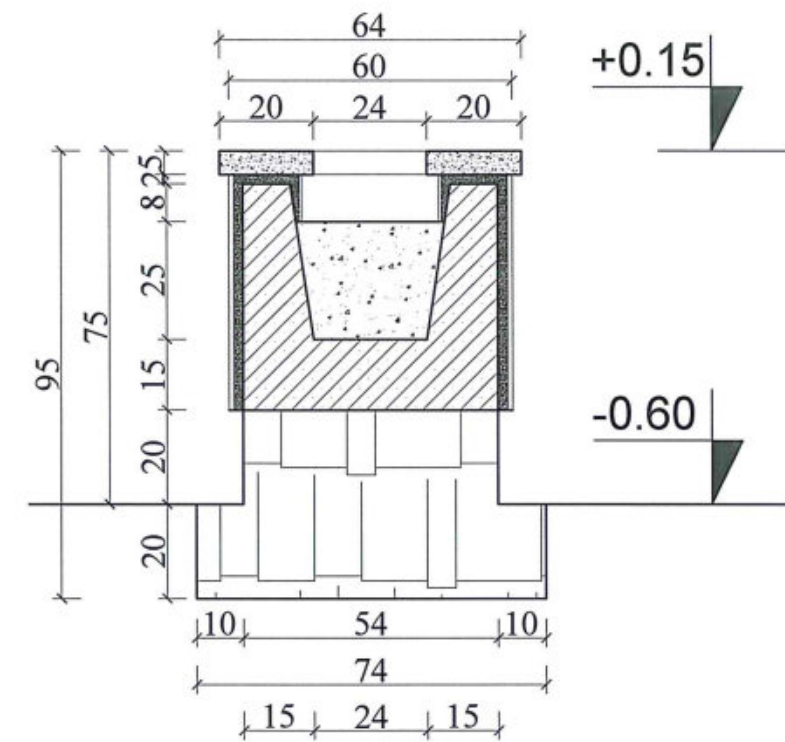
DRAWING TITLE
Details of (7,8,9,10)

SHEET NO.

A19
21



Sec.B-B



Sec.A-A

A
20
DETAILS OF 13 FLOWERS POT
SCALE: NO SCALE



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
ZIAURAHMAN ZIA
PREPLANNED &
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DAARTT
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Combined technical
team
MOE/MRRD/DAARTT
SCALE
AS SHOWN (A3)
DATE
12/08/2018

PROJECT NAME
6 Classroom Burnt Brick RCC Slab H-275
DRAWING TITLE
Details of 13 Flowers Pot

SHEET NO.

A20
21

Structural Drawings

6-Classrooms, one story school building with Brick Masonry load bearing walls Height= +2.89

Date: Jun-2018

Drawing Sheet list

No	Sheet Title	Sheet Number	Remarks
1	COVER SHEET	1	
2	GENERAL NOTES	2	
3	FOUNDATION PLAN	3	
4	FOUNDATION DETAILS	4	
5	REINFORCEMENT BARS OF RING BEAMS ON STONE MASONRY PLINTH AND RING BEAM NO: 3	5	
6	STRUCTURAL WALLS	6	
7	SHUTTERING PLAN FOR ROOF SLAB	7	
8	ROOF RCC RINGS AND BEAMS PLAN	8	
9	REINFORCEMENT BARS OF RING BEAMS NO:1-2	9	
10	REINFORCEMENT BARS OF RING BEAMS NO: 4-5-6	10	
11	BEAMS NO: 1-2	11	
12	BEAMS NO: 3-4 AND RING BEAM DETAILS	12	
13	REINFORCEMENT BARS PLAN FOR ROOF SLAB	13	
14	REINFORCEMENT BARS OF RING BEAM NO: 7 AND PARAPET DETAIL	14	

Logo and other informations



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OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

STRUCTURAL/DESIGN
PREPLANNED &
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TECH- APPROVED BY

DAARTT

[Signature]

Combined technical
team
SCALE
DATE

MOE/MRRD/DAARTT
AS SHOWN (A3)
JUN-2018

PROJECT NAME
DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
COVER SHEET

SHEET NO.

01
14

تصویر

عمومی:

- تمام مواد باید دارای جنسیت عالی و خوب باشد قبولی مواد مربوط انجنیر ساحه کارمیشد و باید مطابقت به نقشه داشته باشد انجنیر ساحه کار مسوولیت تمام کارات را که تحت کنترل می باشد دارد
- در حصه تعدیل نقشه با انجنیر دیزاین کننده مشوره گردد
- پروژه کار پروژه از شروع تا ختم توسط انجنیر ساختمان مراقبت گردد
- در صورتیکه به کود ساختمانی افغانستان (ASC) و کودها و ستندرها مربوطه آن دسترسی باشد جهت معلومات و وضاحت بیشتر برای کانکریت به فصل پنجم و برای معموره به فصل هفتم و همچنان برای بارهای وارده به بخشهای 306-312 کود ساختمانی افغانستان مراجعه شود

تهداب و کرسی:

- مقاومت خاک (1.5 gk/cm^2) برای دیزاین تهداب ها در نظر گرفته شده است
- پارچه سنگ معدن کوهی که در تهداب استفاده میشود مارک آن از 400 کمتر نباشد بطور عموم از 5 الی 40 کیلوگرام وزن داشته و دارای اشکال مختلف باشد؛ مقاوم سخت بادوام در مقابل حالات جوی مقاومت داشته قابلیت برداشت فشار و تحمل سایش راداشته باشد؛ مترکم بوده در مقابل تیزابیت مقاومت داشته درز خوردگی خرابی و نرمی نداشته وزن مخصوص سنگ از 2.5 کم نباشد و در 24 ساعت تحت آب بیش از 5% فیصد آب را جذب نکند قابلیت کار یاشکل گیری داشته در مقابل آتش زود متاثر نگردد و همچنان سنگ معدن کوهی باشد و سنگ روی دره که بی کیفیت باشد مورد استفاده قرار نگیرد؛ درنیش ها از سنگ های شکل داده شده دورویه کار گرفته شود؛ قوی ترین و بزرگترین سنگ ها باید در پایین قسمت روی زمین وزاویه ها و کنج ها کارگرفت؛ سنگ ها باید در مصالح خوابانیده شده و توسط چکش بالای آن کوبیده شود؛ سمت های بیرونی و داخلی کنج ها و تمام خلاها توسط مصالح پر کاری گردد؛ قسمت های پیش روی و عقب سنگ کاری همزمان کارگردد؛ از سنگ پارچه های خورد باید جهت جابجا نمودن سنگ های بزرگ کار گرفته شود؛ چهار جابجایی یا درز مایه نباید در یک قطار کارگردند از درزهای طویل بین دو سنگ جلوگیری بعمل آید؛ در قسمت فوقانی دیوار از سنگ های کار گرفته شود کبه دیوار شکل هموار بدهند.
- مارک مخلوط مصالح 300 با تناسب (1:4) باشد نسبت مقدار آب و سمنت مراعات گردد و باید کوشش شود همان اندازه مصالحه تیار گردد که در ظرف نیم ساعت استعمال گردد و باید بطور دوامدار توسط بیلچه خوب تا و بالا گردد؛ مصالح سنگ کاری باید غلیظ باشد استعمال گردد هرگز در داخل سنگ کاری از مصالح ابگین کار نگیرید؛ مقدار حجم مصالحه در سنگکاری باید 35% الی 40 فیصد باشد سنگ ها خوب بافت داده شود و درزهای سنگ ها باید خوب توسط مصالحه پر گردد؛ پروسه سنگکاری بعد از هر 60 سانتی متر لیول و یا آب تراز و گردد و بعداً قطار بعدی شروع گردد در قسمت اب زدن کانکریت و غیره امورات باید توجه جدی معطوف گردد تا مراحل تعاملات کمیایوی سخت شدن کانکریت بخوبی تکمیل گردد سطح بالایی کانکریت بطور دایم حد اقل در محیط سرد 28 شبانه روز و در محیط گرم 14 شبانه روز مرطوب نگهداری گردد در تمام امور ساختمانی که از سمنت استفاده میشود برای مدت بیشتر از 14 یوم نظر به شرایط جوی و اقلیمی آب پاشی متداوم صورت گیرد تا عنصر مقاومت پروژه خود را حاصل نماید

سیخ آهنکانکریت:

- سیخ های با مقاومت سنجشی ($\text{Grade:40, Fy=2800kg/cm}^2$) درگزدمکها و؛ با مقاومت سنجشی ($\text{Grade:60, Fy=4200kg/cm}^2$) در عناصر آهنکانکریتی محاسبه شده است. قشر محافظوی برای سیخ ها در پوشش از 1.5 سانتی متر و در گادرها از 2.5 سانتی متر کمتر نباشد
- سیخ های مورد استفاده باید عاری از زنگ زده گی باشد

دیوارهای وزن بردار:

- ازینکه دیوارها در تمام پروژه وزن بردار میباشند بدین معنی اولاً تمام دیوارها اعمار و تکمیل گردد بعداً بالای آن قالببندی رینگ بیم و سلبها کارمیشود که دیوارها وظیفه انتقال وزن تمام عناصر رابه تهداب دارند ازخشت های درجه اول بامارک 140 باید استفاده گردد برای خشت کاری از مصالح سمنت وریگ مارک 300 یاتنا سب (1:4) استفاده شود و مقدار حجم مصالحه درخشت کاری باید 28% فیصد باشد. قبل از استفاده در بین اب برای 24 ساعت نگهداری گردد تا قابلیت جذب اب رابه اندازه کافی داشته باشد در صورتیکه از اثر جذب اب خشت ها شاریده گی پیدا کند قابل استعمال نمی باشد؛ فواصل بین خشت کاری دیوار باید 8 ملی متر باشد و این فاصله خشت ها که با مصالح پر میگردد نباید از یک سانتی متر اضافه گردد زیرا این کار مقاومت دیوار را کم میسازد؛ بعد از هر سه قطار خشت کاری دیوار باید ذریعه شاول چک گردد تا اطمینان حاصل گردد که دیوار درست کار شده. خشت کاری باید دارای بافت باهم باشد یعنی نصف خشت بالای یک خشت و نصف خشت بالای خشت دیگر از قطار پایینی قرار گیرد و این خشت ها باید خط عمود را ایجاد ننماید که این کار باید درکنج ها تطبیق گردد
- ریگ مورد ضرورت مصالحه باید عاری از خاک؛ گل و مواد عضوی باشد ریگ بقسم نخودی بوده 40 فیصد ان سایز یک الی سه ملی متر دارا باشد و به هیچ صورت فیصدی خاک از 5 فیصد تجاوز ننماید ریگ و سمنت باید باهم خوب مخلوط گردد و بازهم قابل یادآوری است که مصالحه باید اضافه تراز نیم ساعت بعد ازینکه اب بالای ان مخلوط گردد استفاده گردد در غیران فقط ریگ میگردد.
- پلستر دیوارهای داخلی و خارجی از مصالح سمنت وریگ با مارک M400 با تناسب (1:3) استفاده شود

کانکریت:

- مارک کانکریت سیخدار در تمام عناصر انحنایی (M:200) با تناسب 1:1.5:3 میباشند
- آب های مورد استفاده برای مخلوط کانکریت پاک و تازه بوده شور و نمکی نباشد مقدار و اندازه اب مربوط به مارک مصالحه و کانکریت میباشند که برای مارک 200 - 0.209 m^3 متر مکعب برای مارک 300 - 0.251 m^3 تعین گردیده؛ آبدی برای تهیه نمودن رطوبت کافی و بوجود آوردن پروسه آبدی سمنت لازمی میباشند تا در آغاز کار ریخت سازی باید شروع گردد هر قدر آبدی وقت بیشتر را دربرگیرد همان اندازه کیفیت کانکریت ازدیاد میابد ازرویش های (اب پاشی نمودن؛ غرقه سازی؛ پوش کردن توسط خریطه های سمنت و پلاستیک اگر خطر شبنم موجود باشد دران صورت آبدی کمتر صورت گرفته و توسط مواد عایق مانند خریطه های خالی سمنت و سبزه پوش گردد.
- سمنت مورد استفاده باید دارای مارک 400 تازه و پورتلند باشد
- قالب ها قبل از استفاده باید خوب چرب کاری شود
- ریگ و جغل قبل از استفاده باید شستشو گردد؛ باید ریگ دانه دار استفاده گردد هرگز ریگ میده دانه استفاده نگردد.
- در مخلوط کانکریت جغل کرش نوع دریایی با سورت های الی قطر 2.5 سانتی متر استفاده گردد و از جغل کرش نوع صخره ای یا کوهی استفاده نشود
- حین کانکریت ریزی و پیراتور استفاده گردد و باید توسط افراد مسلکی پروسه مترکم سازی انجام شود
- قالب های عناصر انحنایی به هیچ وجه قبل از 18 روز دور نگردد
- مقدار مصالح که توسط دست مخلوط میگردد نباید از 0.5 m^3 اضافه تر گردد و نباید روی خاک ها مخلوط گردد؛ برای کانکریت ریزی و مخلوط ان آزمایشین مکسر استفاده گردد.



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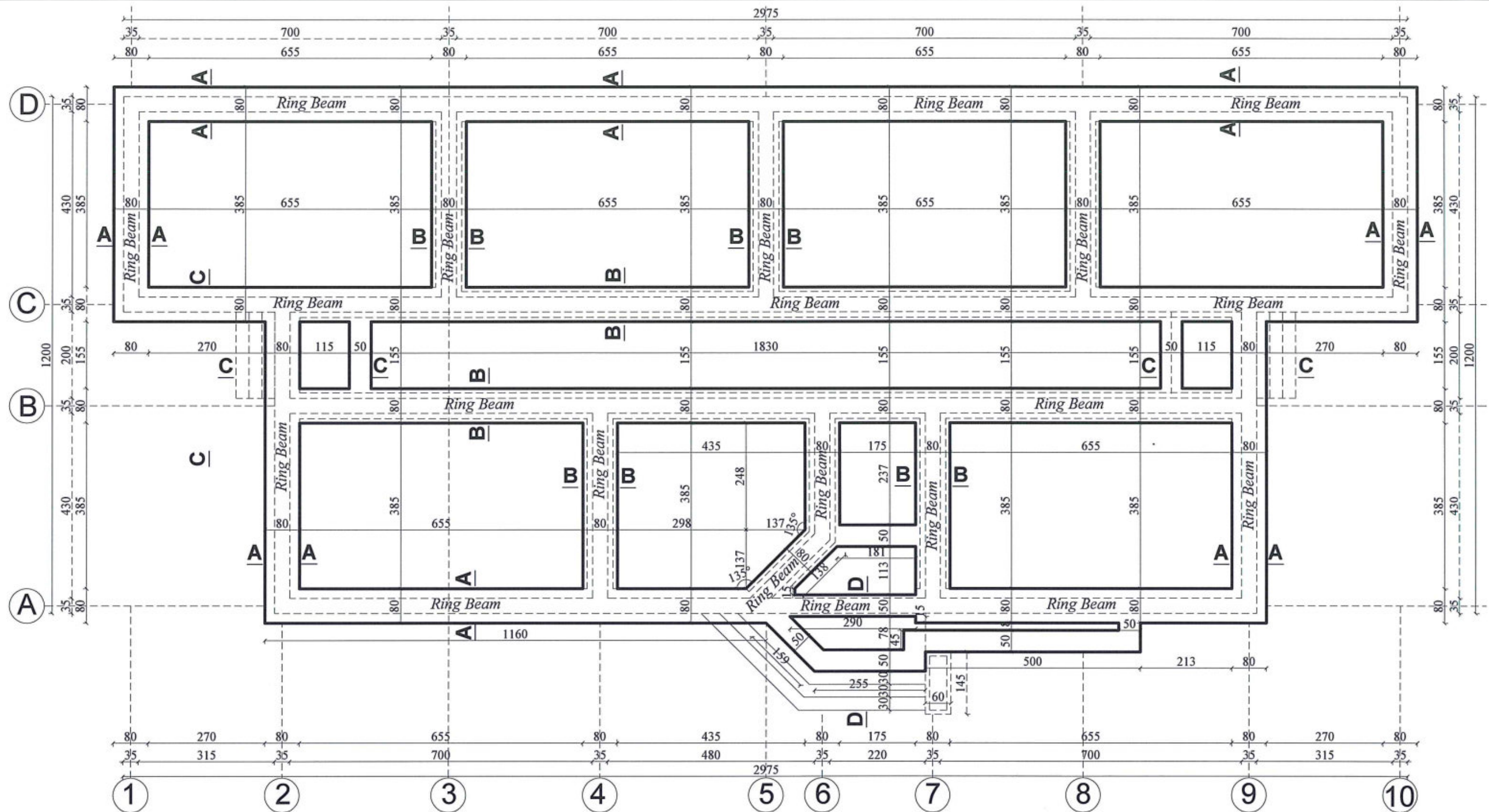
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JUN-2018

PROJECT NAME
DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HEIGHT=+2.89
GENERAL NOTES

SHEET NO.

02
14



FOUNDATION PLAN

متراکم نمودن خاک ها :

آماده ساختن اساس های تحت تهداب ها متشکل از یک تعداد پروسه های میباشد که عبارت اند از :

- تامین تماس بین اساس وقاعده درتمام سطح ان مطابق نشانه ها ولبول ها

- بلند بردن توان باربرداری خاک اساس الی کمیت پروژه وی آن ؛ اساسی ترین پروسه ها درانتای آماده ساختن اساس عبارت از تراشیدن پاک کاری کف حفره و تراششی ؛ متراکم نمودن اساس ؛ آب پاشی ویا خشک نمودن خاک درجریان متراکم نمودن خاک ها .

- اگر اساس ها طبیعتاً ضعیف ویا ازجمله خاک های ریزینده باشند درآن صورت توان باربرداری آنها توسط متراکم نمودن بلند برده شود ولی اگر ملاحظه گردید که اساس تا عمق 1.5 الی 2 متر ضعیف ویا ریزینده بوده دران صورت موضوع رایبه دیزاینر درمیان گذاشته تا از تدابیر ویژه وپستر سازی مصنوعی بالنظرداشت نورم ها وقواعد انجنیری استفاده شود ؛ متراکم نمودن اساس دراوقات سرد سال باید به سرعت اجرا گردد تا وقتیکه درجه حرارت کمتر از 20+ درجه سانتی گریزید نباشد ختم گردد وسطح آماده شده ازبغ زدن توسط بورییا ویاتات وغیره چیز ها پوشانیده ومحافظت گردد؛ برای پرکاری دوباره اساس ازکلوخ های یخ بسته برای پروسه پرکاری تهداب و فرش ها وغیره مجاز نمی باشد باید ازتناسب مناسب ریگ ؛ خاک و جغل خشک استفاده گردد .



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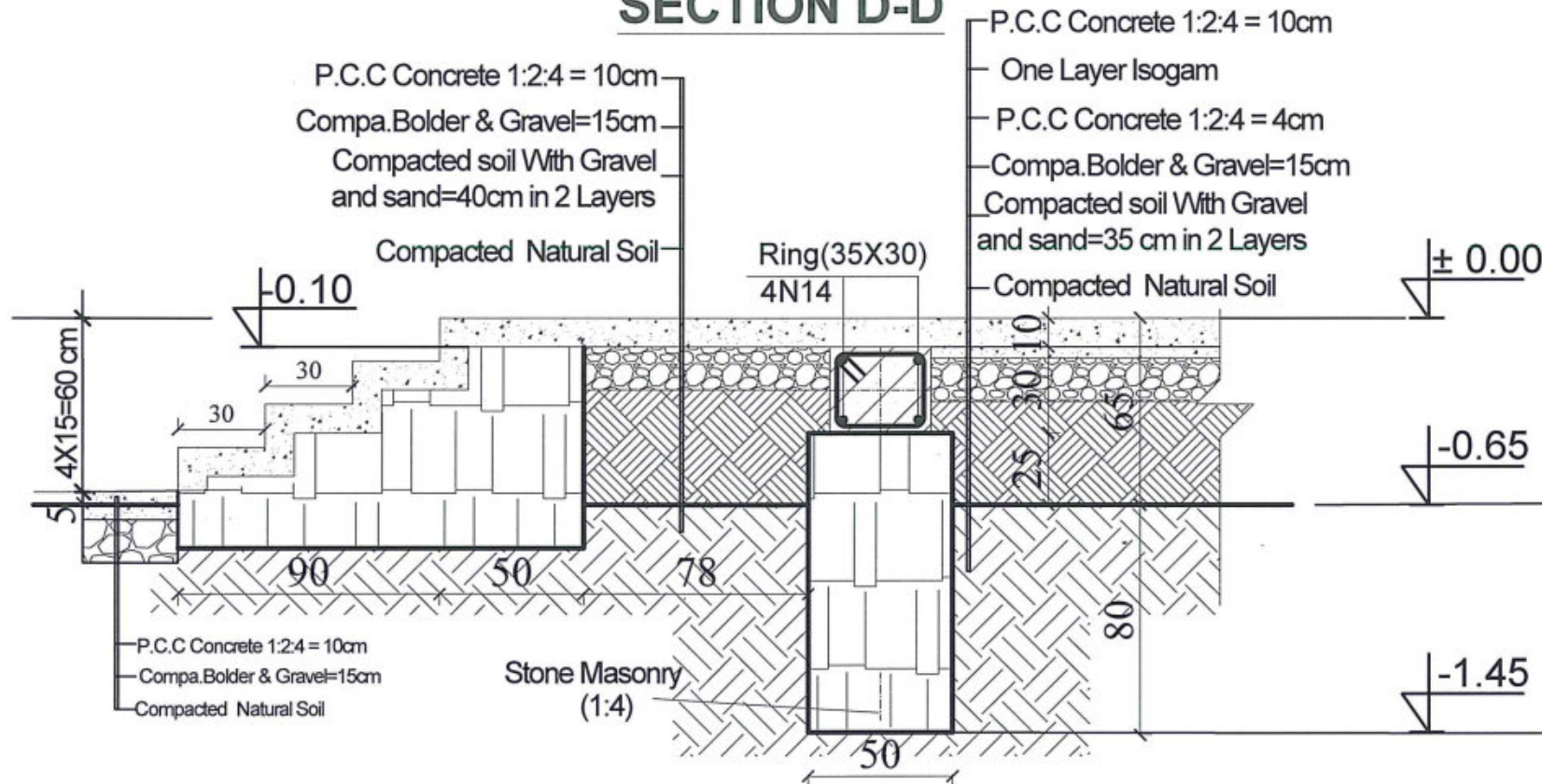
PROJECT NAME
DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
FOUNDATION PLAN

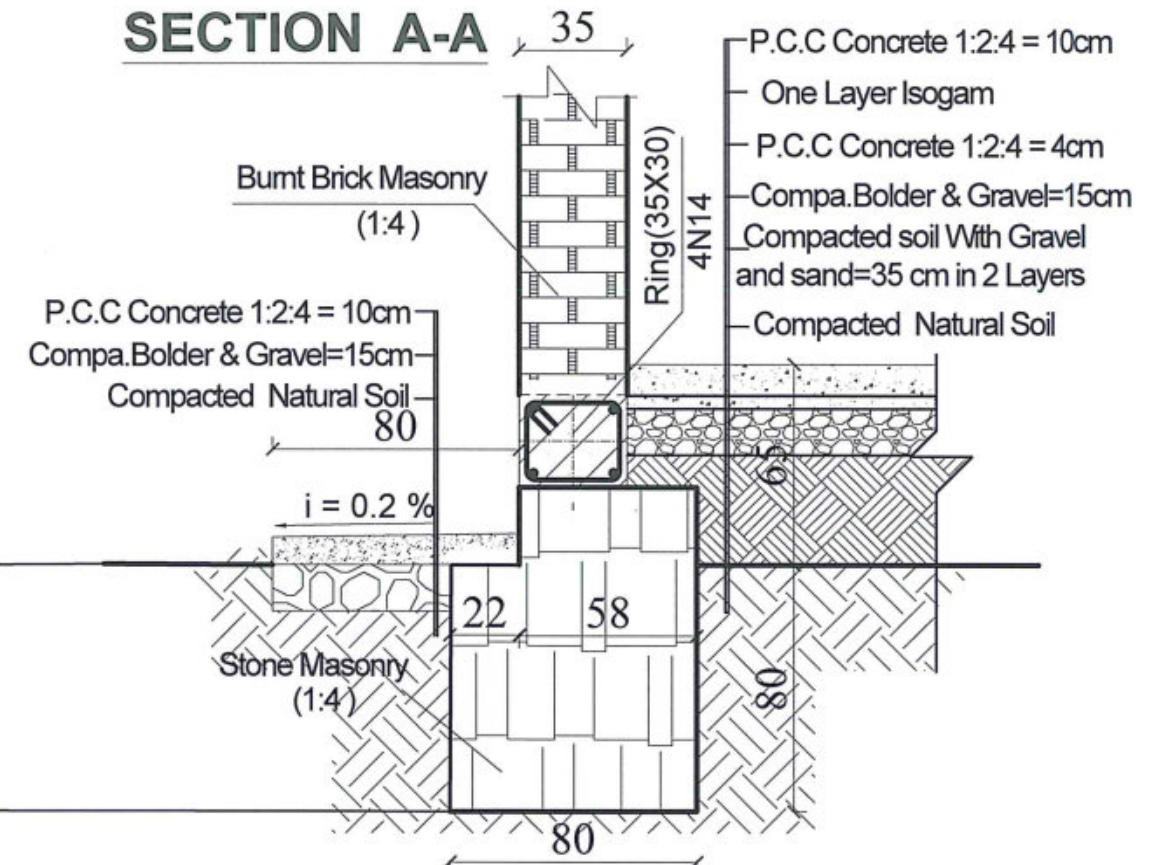
SHEET NO.

03
14

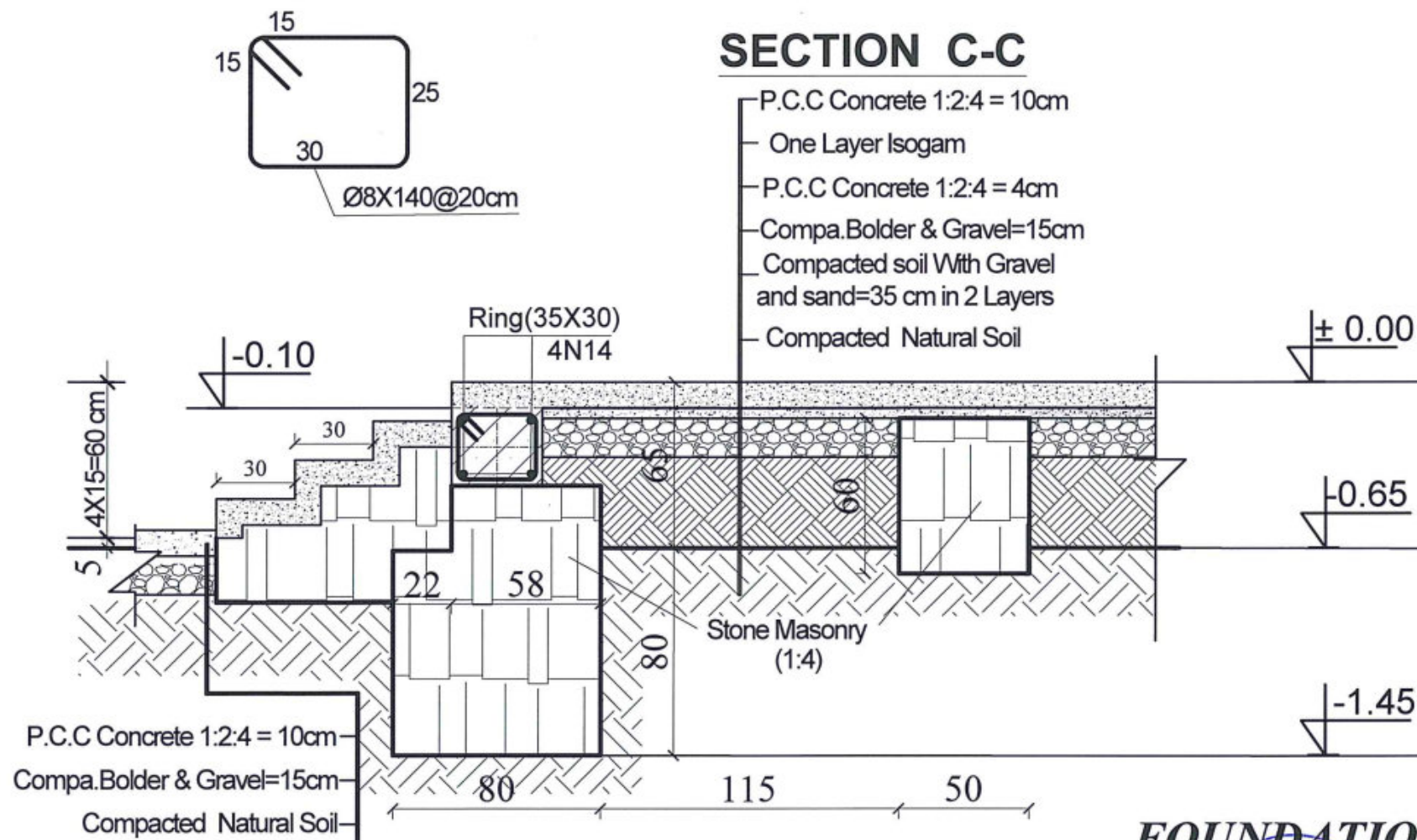
SECTION D-D



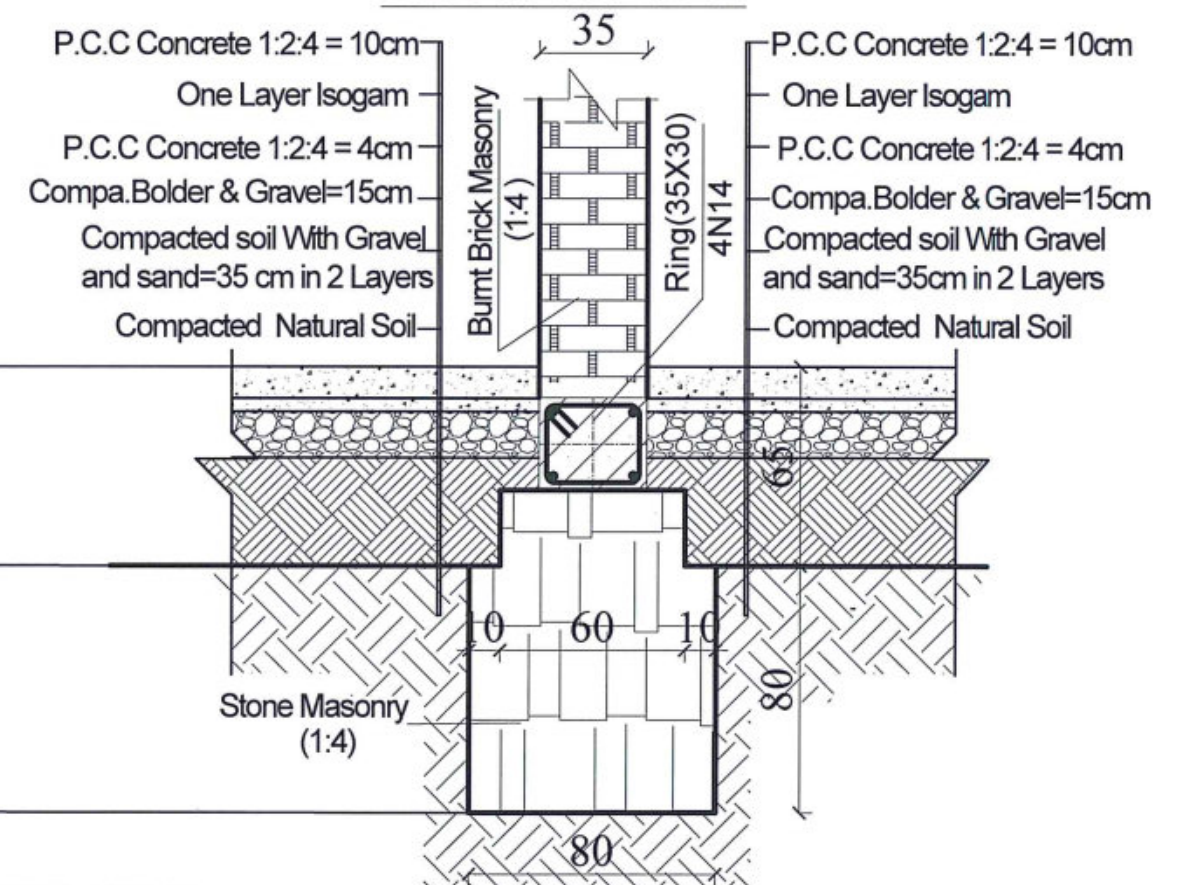
SECTION A-A



SECTION C-C



SECTION B-B



FOUNDATION DETAILS



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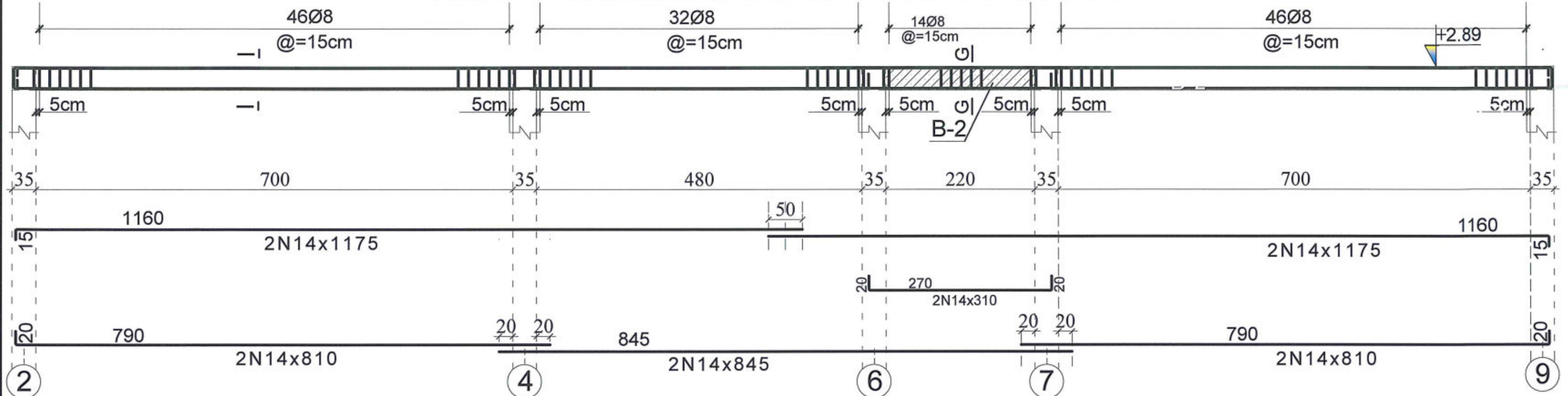
SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89

FOUNDATION DETAILS

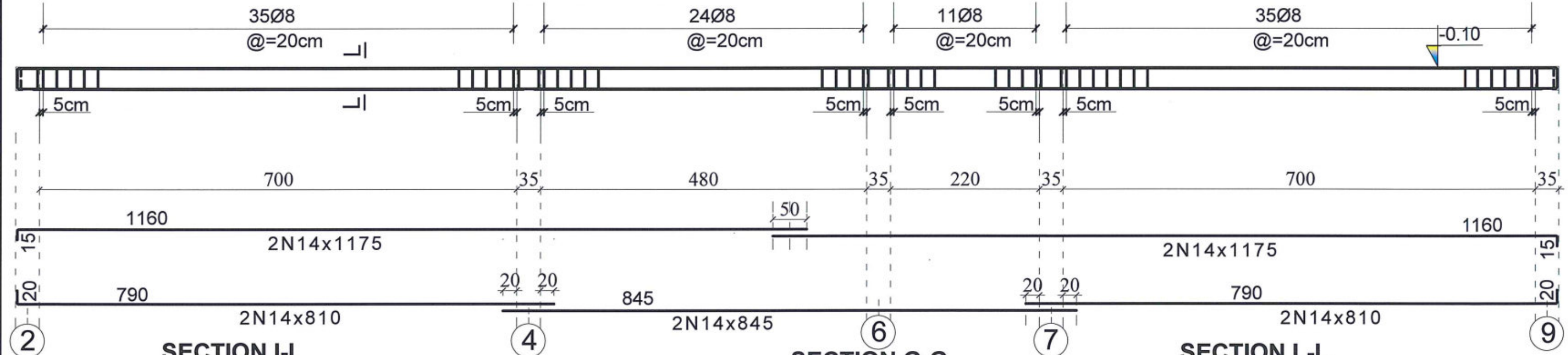
SHEET NO.

04
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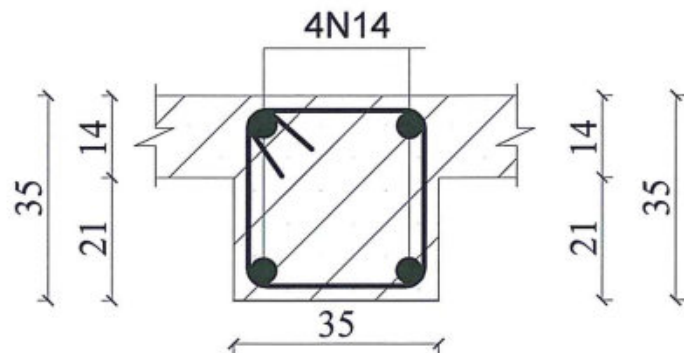
REINFORCEMENT BARS OF RING BEAMS No .3



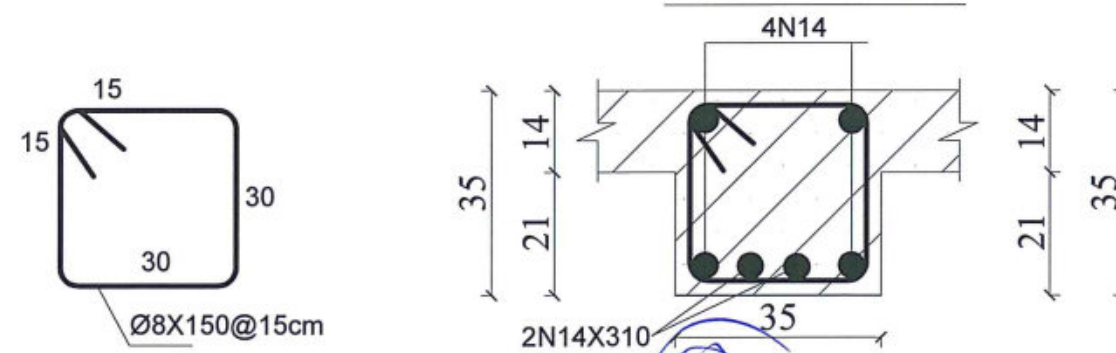
REINFORCEMENT BARS OF RING BEAMS ON STONE MASONRY OF PLINTH



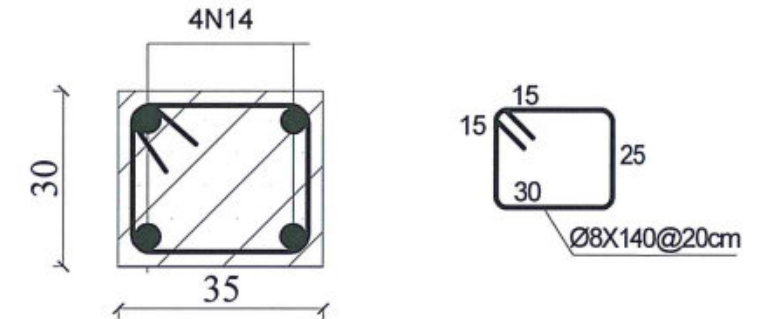
SECTION I-I



SECTION G-G



SECTION L-L



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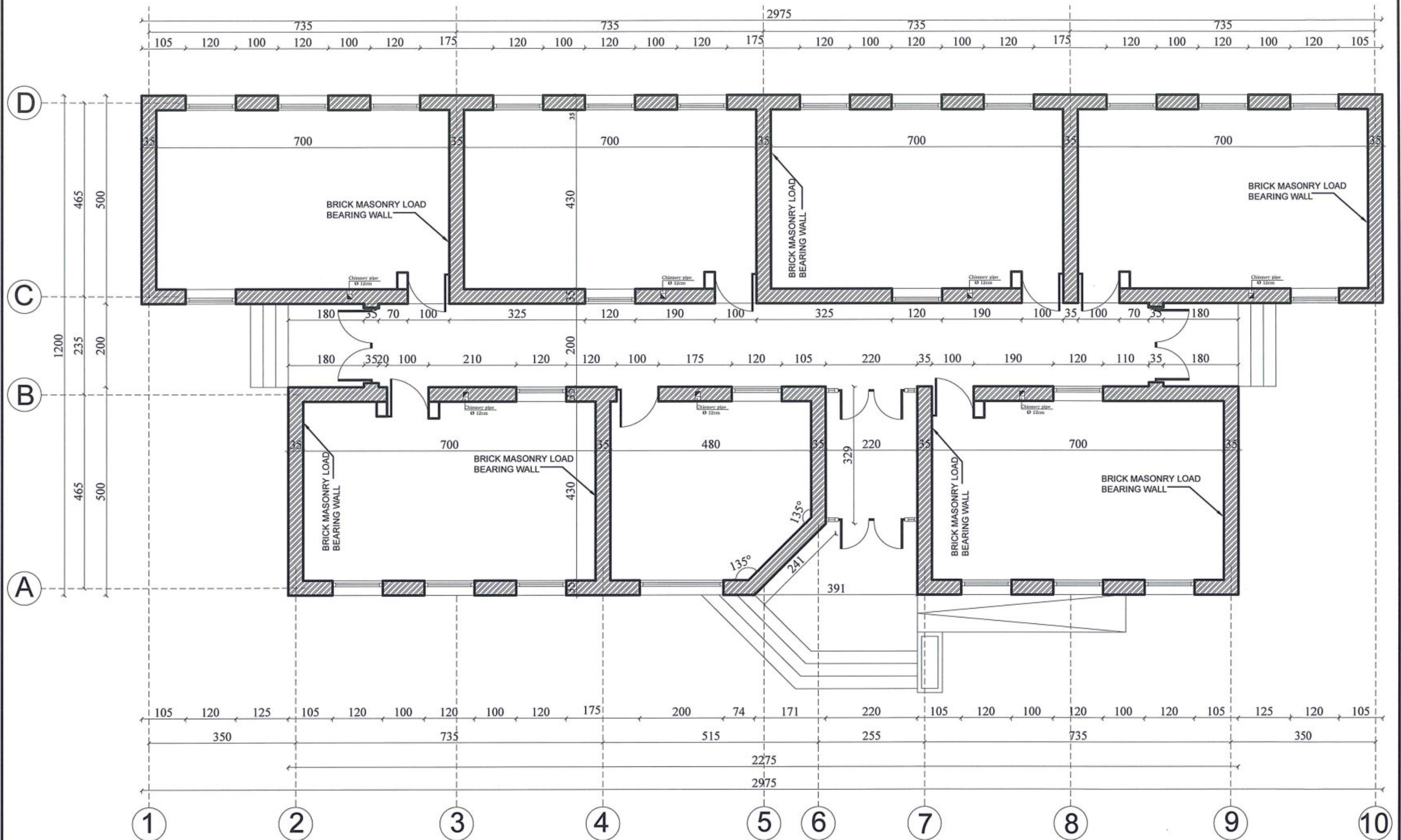
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PROJECT NAME
DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
REINFORCEMENT BARS OF RING BEAMS
ON STONE MASONRY AND R.B NO:3

SHEET NO.

05
14



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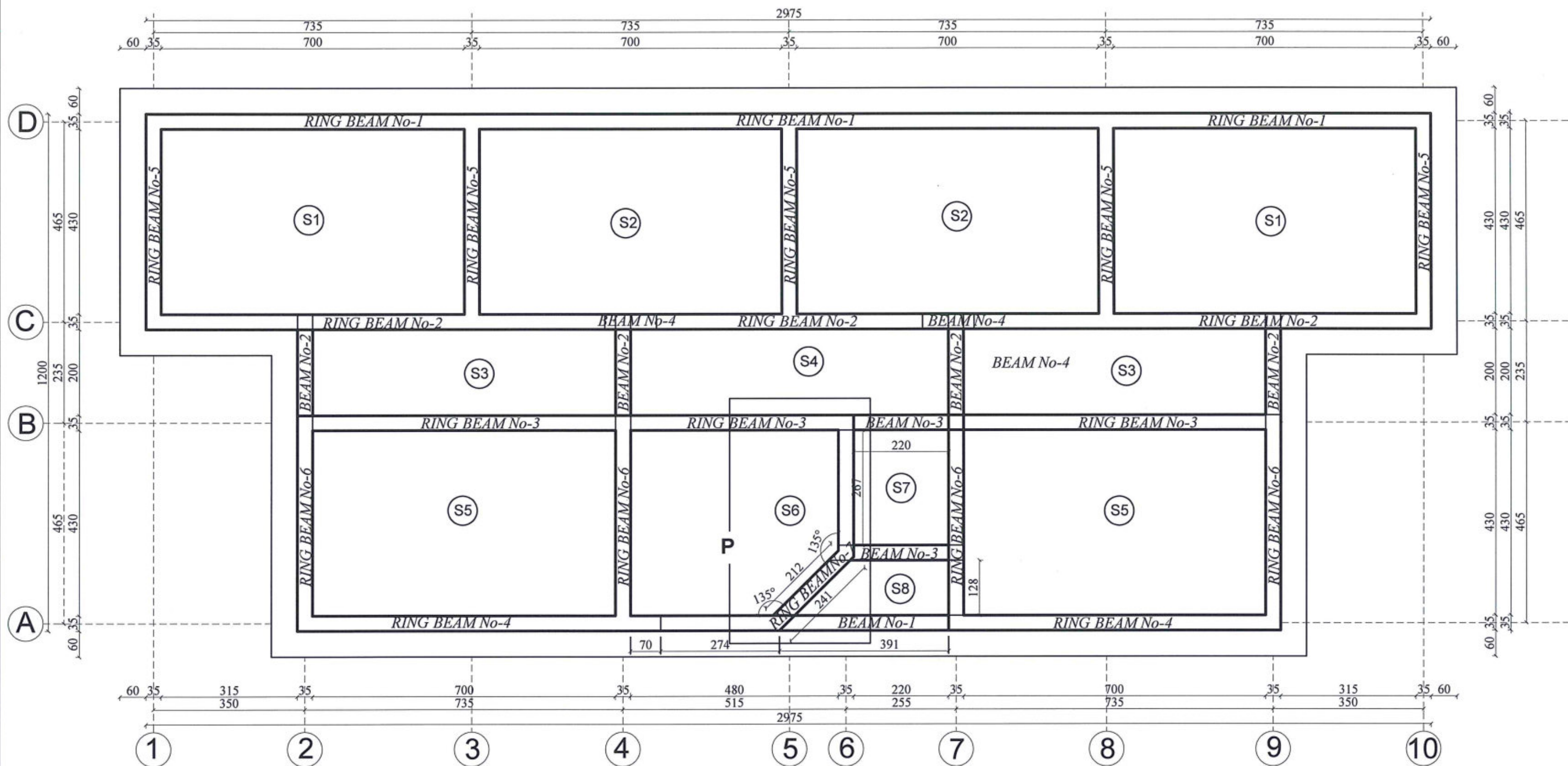
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PROJECT NAME
DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
STRUCTURAL WALLS

SHEET NO.

06
14



ROOF RCC RINGS AND BEAMS PLAN



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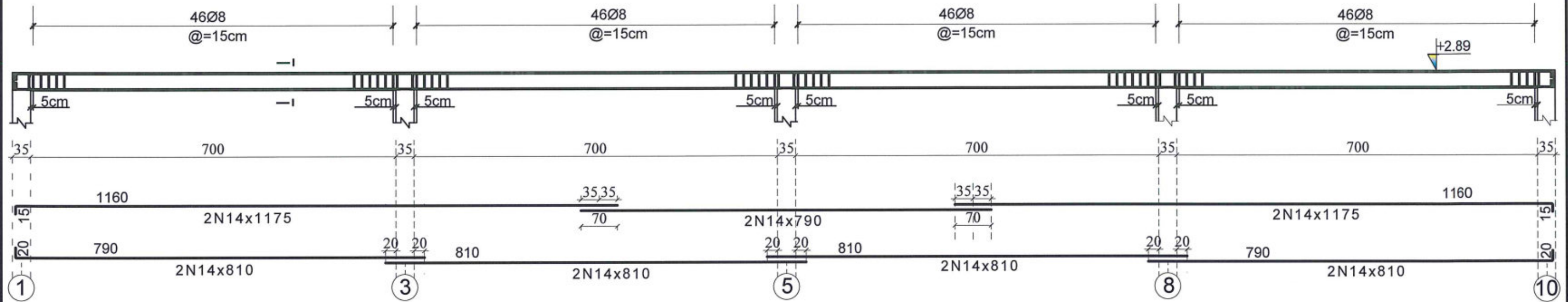
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SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
ROOF RCC RINGS AND BEAMS PLAN

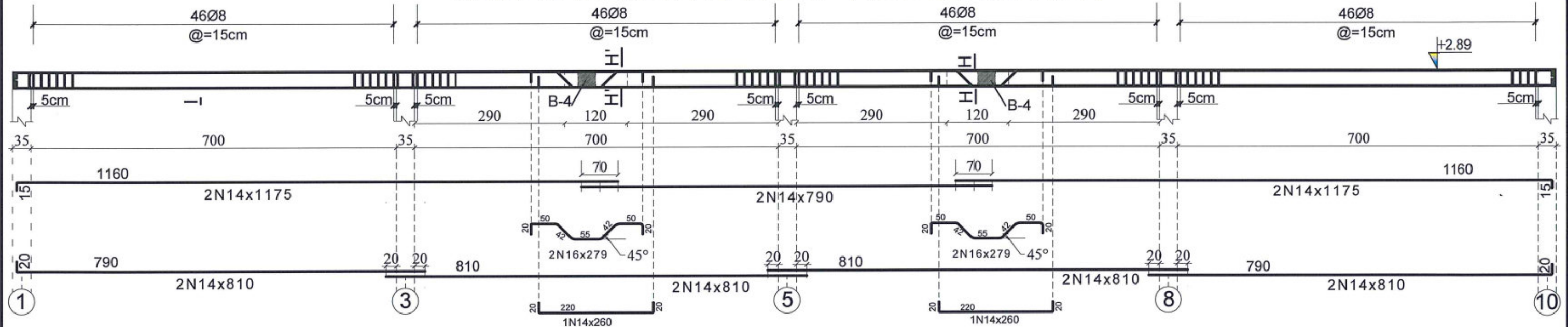
SHEET NO.

08
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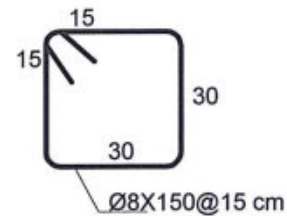
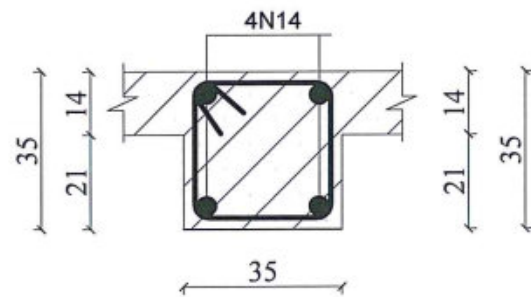
REINFORCEMENT BARS OF RING BEAMS No .1



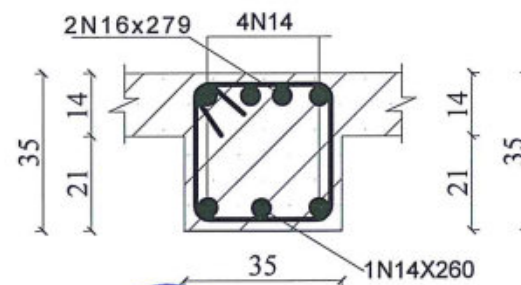
REINFORCEMENT BARS OF RING BEAMS No .2



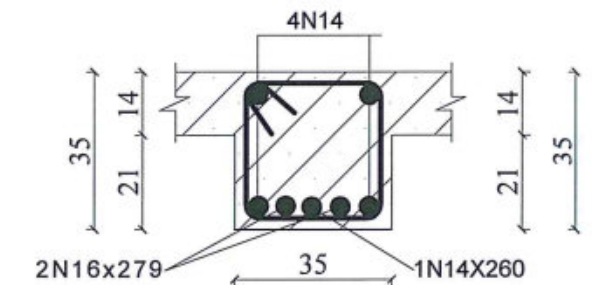
SECTION I-I



SECTION H'-H'



SECTION H-H



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PROJECT NAME

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SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89

REINFORCEMENT BARS OF RING BEAMS NO : 1-2

SHEET NO.

09
14

Technical drawing of a reinforced concrete slab cross-section and reinforcement details. The drawing includes the following dimensions and labels:

- Top Section (Longitudinal):**
 - Reinforcement: 46Ø8 @=15cm (three segments).
 - Width: 1170.
 - Section line: B-B.
- Bottom Section (Cross-section):**
 - Overall width: 1170.
 - Reinforcement bars: 2N14x1175 (top), 1N16x745 (top), 2N16x745 (bottom), 2N14x810 (bottom), 2N14x845 (bottom).
 - Dimensions: 700, 735, 734, 790, 845, 790.

Technical drawing of a square column cross-section and a detail of the corner reinforcement.

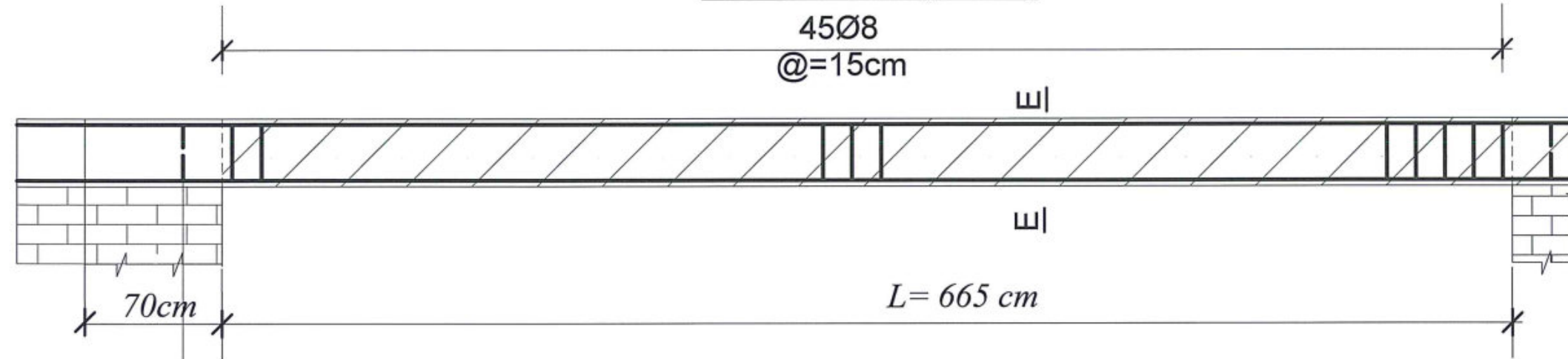
The main drawing shows a square column with side length 35 cm. It has 4N14 bars at the corners and 2N16x745cm bars along the sides. The distance between the corner bars is 21 cm, and the distance between the side bars is 14 cm.

The detail shows the corner reinforcement with a 15 cm radius and a 30 cm dimension for the corner reinforcement.



BEAM No1(1Nrs)

45Ø8
@=15cm



2N14 (Ring steel bar)

705

TopBar

1N16x745

20

20

705

Bottom Bar

2N16x745

20

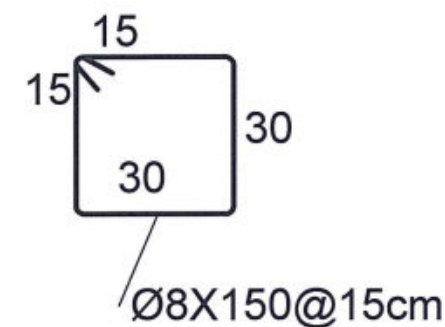
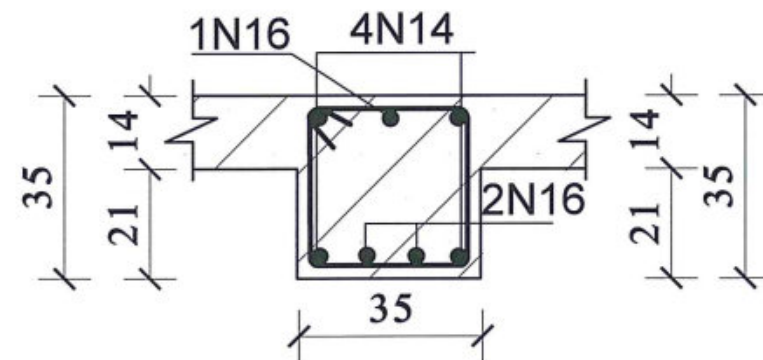
20

2N14 (Ring steel bar)

4

7

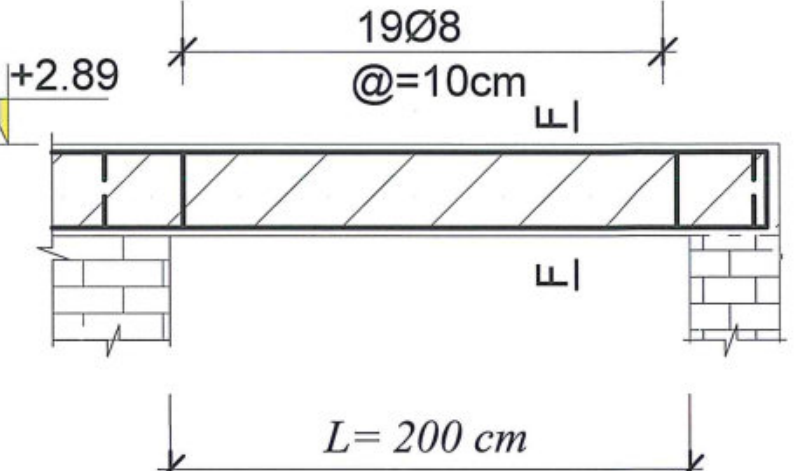
SECTION E-E



BEAM No2(4Nrs)

19Ø8
@=10cm

+2.89



2N14 (Ring steel bar)

20

250

20

1N14x290

20

20

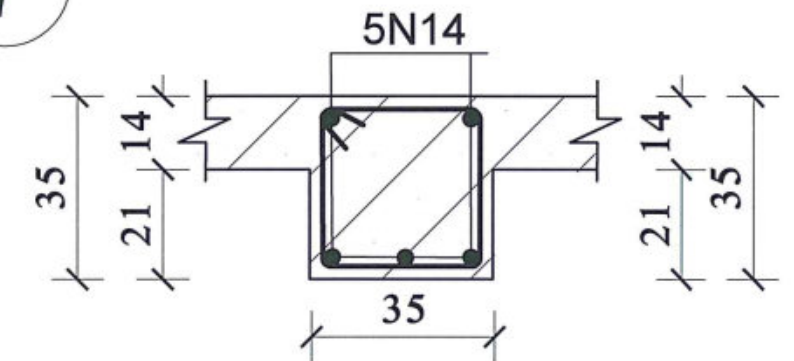
2N14 (Ring steel bar)

20

B

C

SECTION F-F



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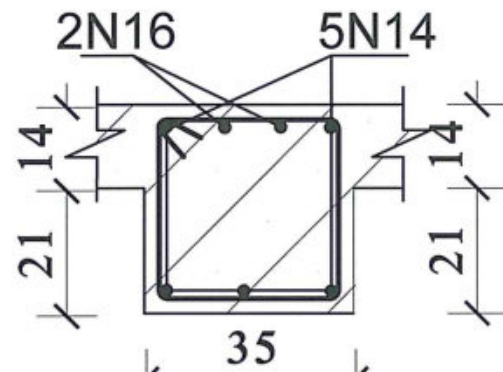
PROJECT NAME
DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
BEAMS No 1-2 :DETAILS

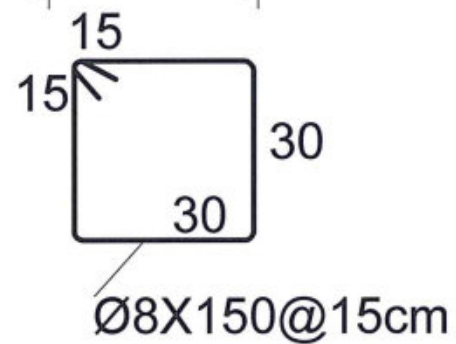
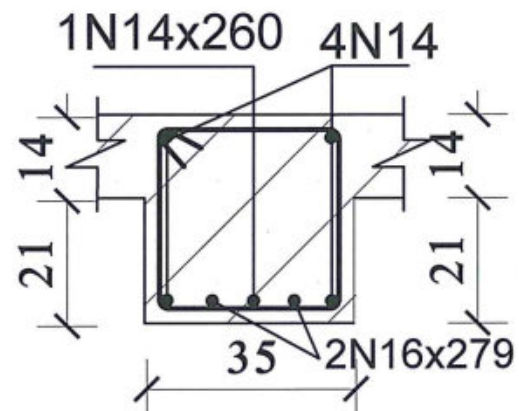
SHEET NO.

11
14

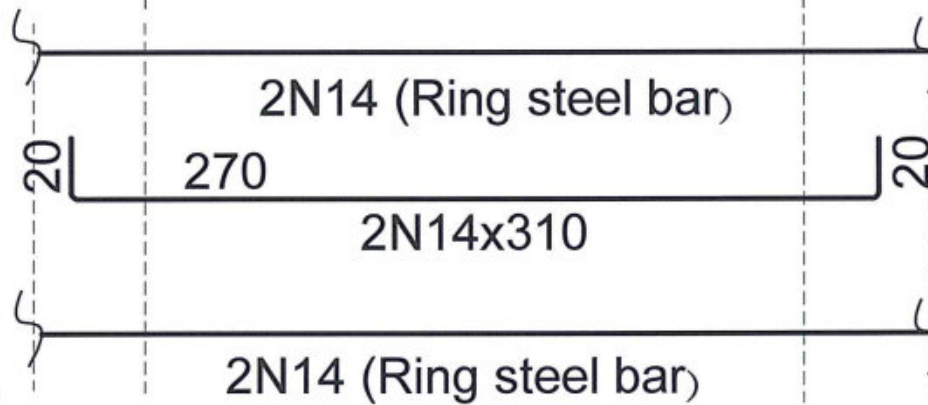
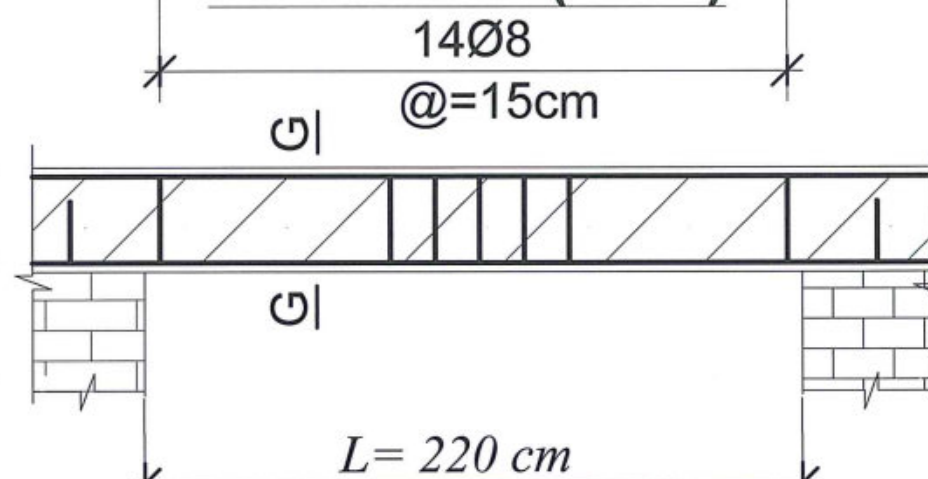
SECTION H'-H'



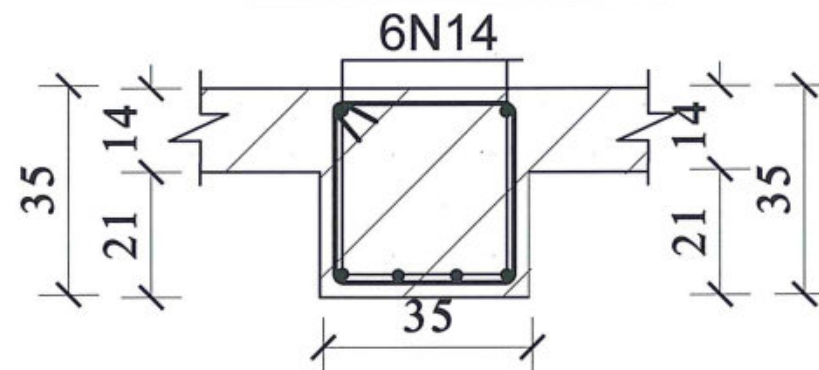
SECTION H-H



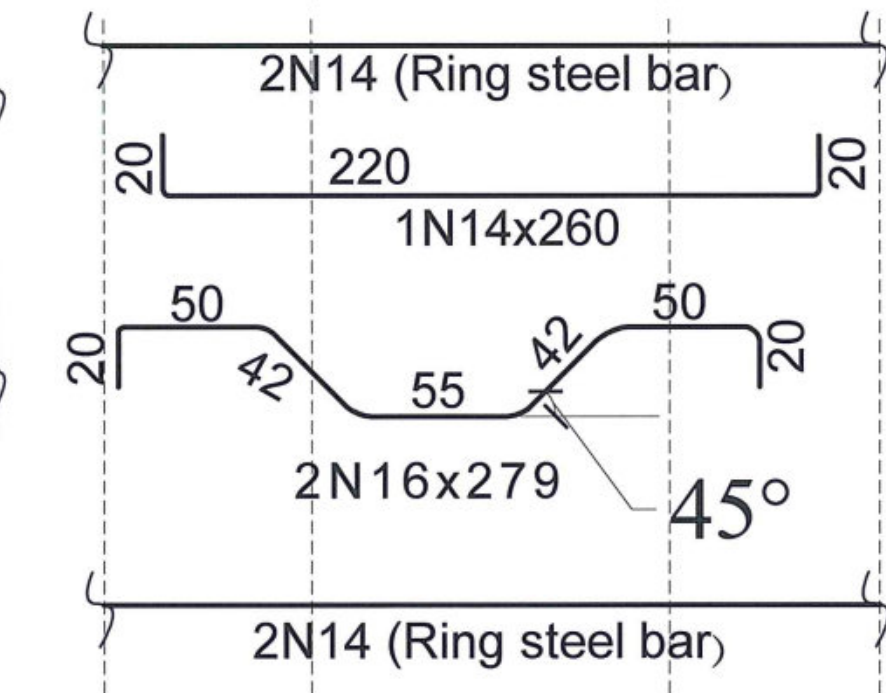
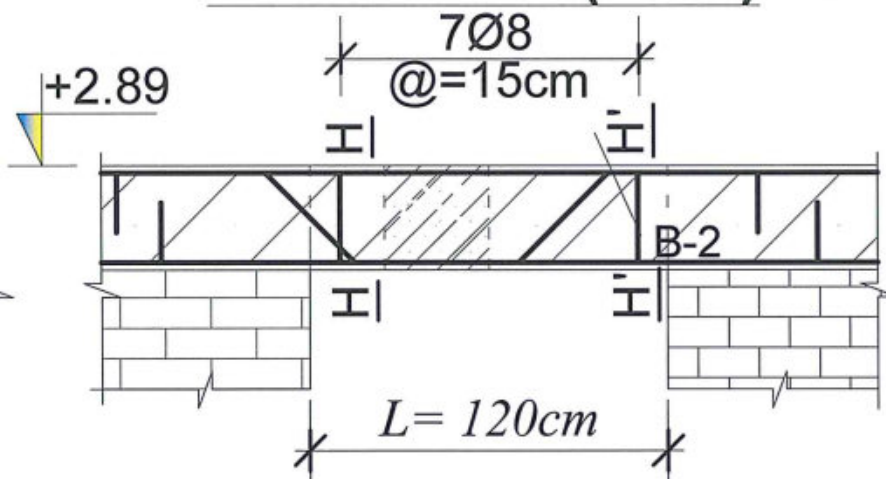
BEAM No3(2Nrs)



SECTION G-G



BEAM No 4 (2Nrs)



BEAMS DETAILS



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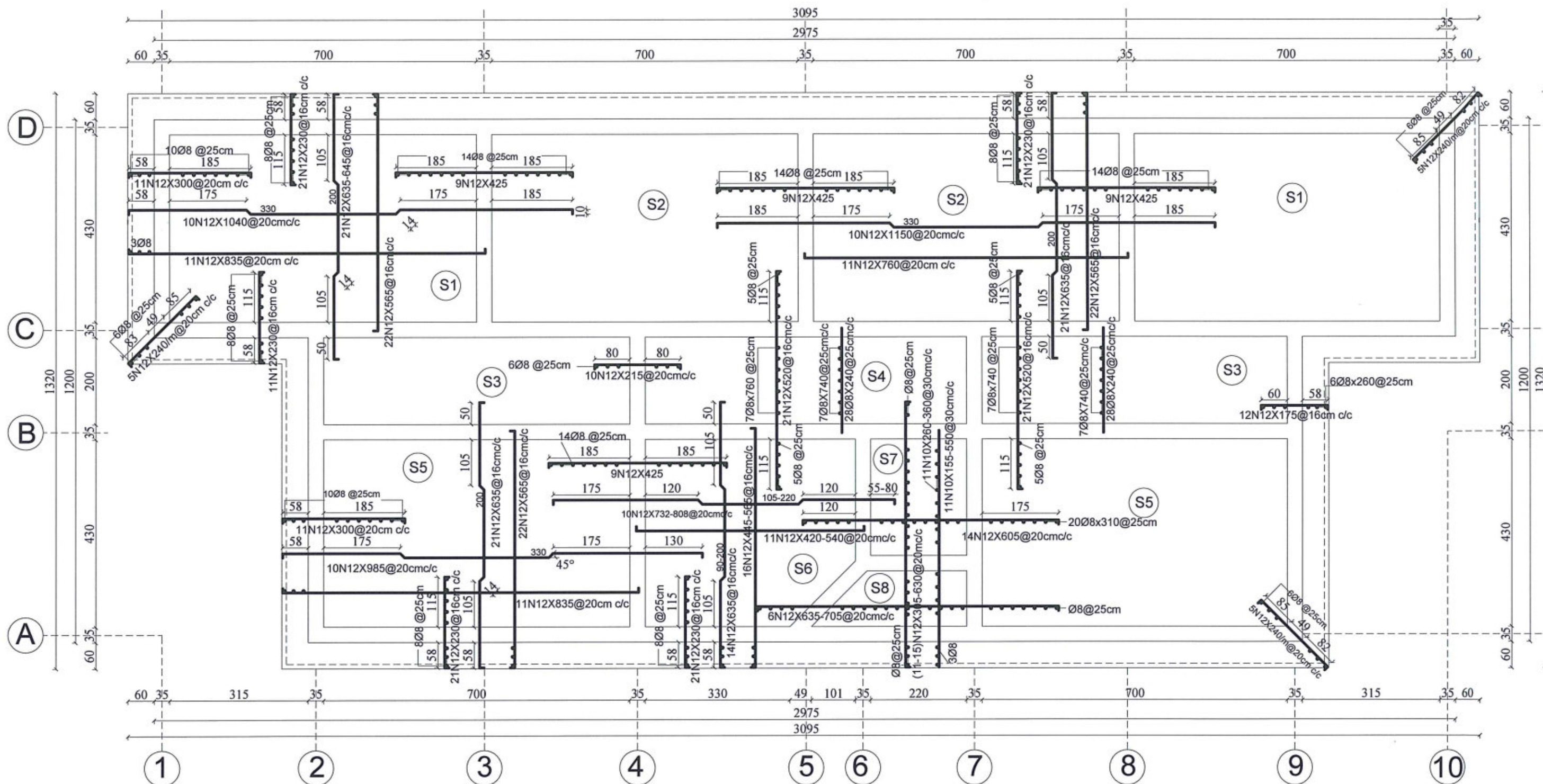
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DRAWING TITLE

SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89
BEAMS No 3-4 :DETAIL

SHEET NO.

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REINFORCEMENT BARS PLAN FOR ROOF SLAB



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HIGHT=+2.89

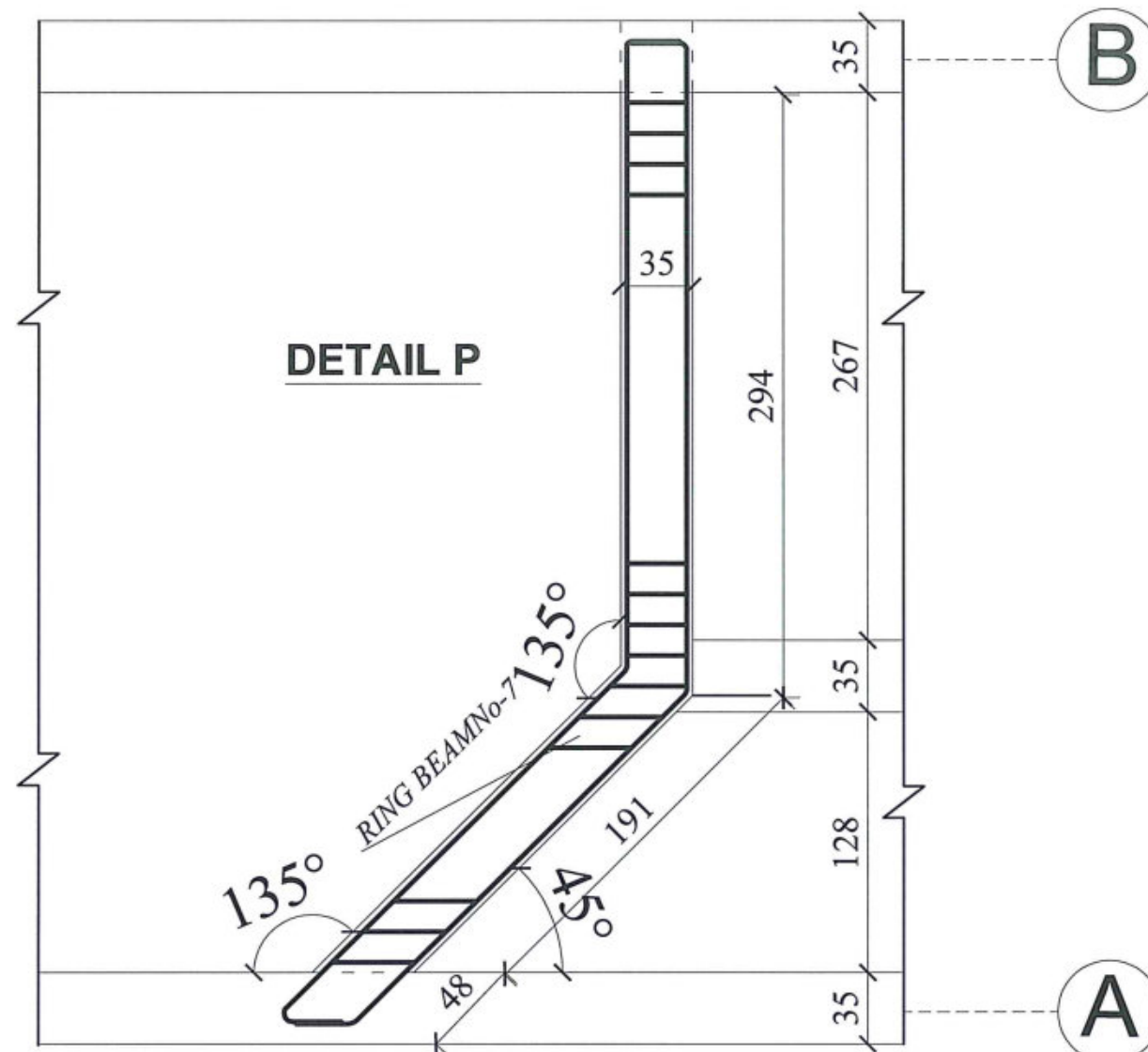
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REINFORCEMENT BARS PLAN FOR ROOF SLAB

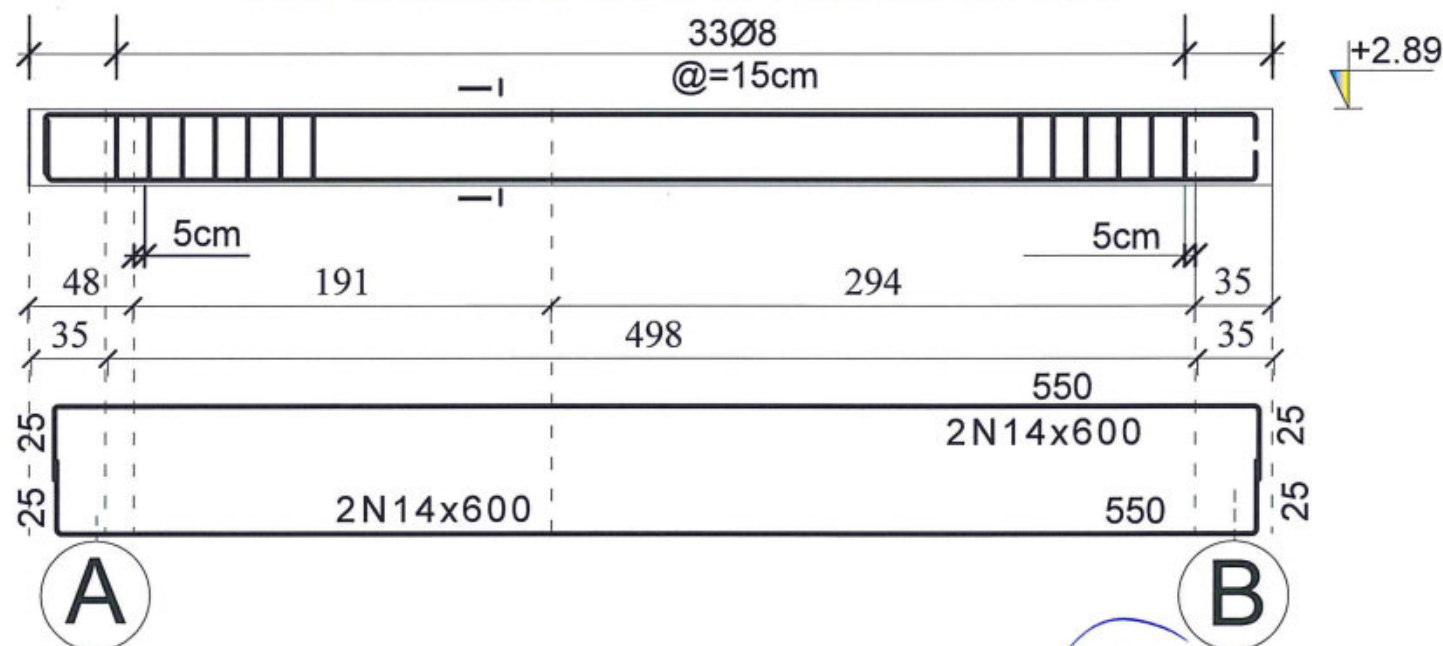
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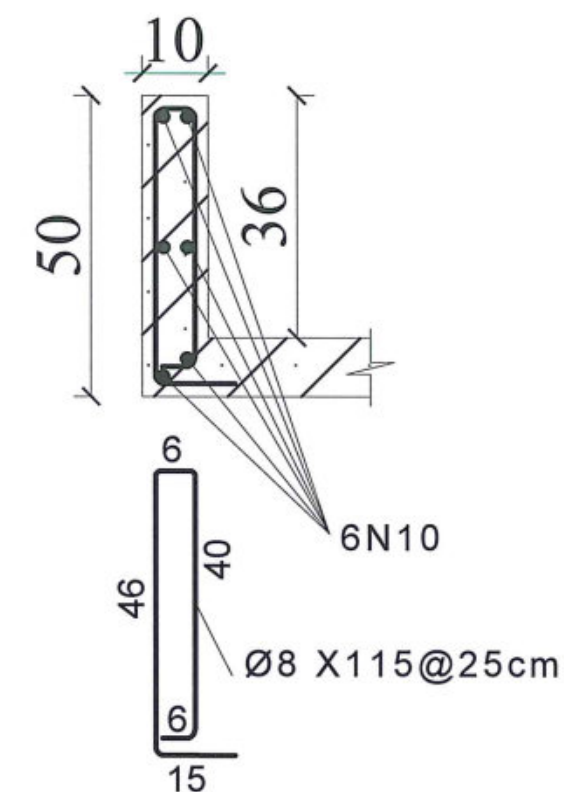
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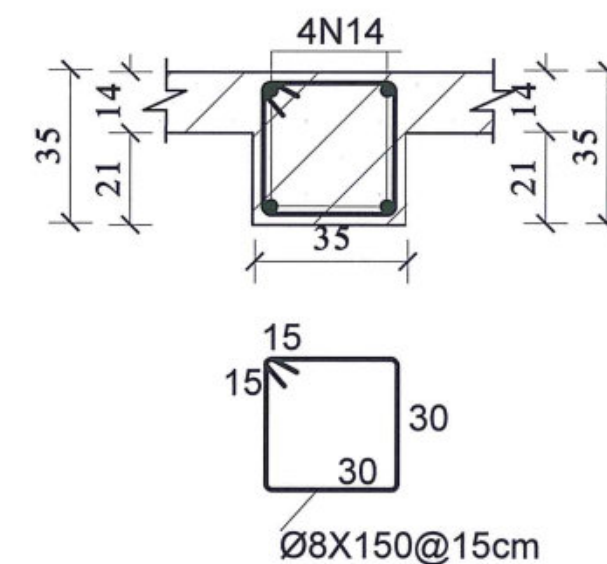
REINFORCEMENT BARS OF RING BEAMS No .7



SECTION M-M



SECTION I-I



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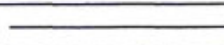

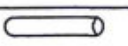
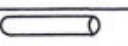
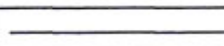


SIX CLASSROOM BURNT BRICK-RCC SLAB SCHOOL
HIGHT=+2.89

REINFORCEMENT BARS OF RING BEAM
NO: 7 AND PARAPET DETAIL

SHEET NO.

14
14

SPECIFICATION OF ELECTRICAL EQUIPMENT FOR ONE FLOOR 6 CLASS

O	DESCRIPTION	SIGNS	UNIT	PIECES	REMARKS
	LED surface mounting fixture 18 X 18 X 4 cm 25W 220V 50hz		No	33	
2	Two pole switches 10 Amps under plaster good quality		No	6	
1	Single pole switches 10 Amps under plaster good quality.		No	6	
	Socket out let single phase 16 Amp under plaster .		No	25	
	PANEL BOARD or Distribution Box 30 x 45cm 22 gauge		No	1	
	WIRE (1 x 2.5) mm ² for lighting.		M	560	
	WIRE (1 x 4)mm ² for sockets.		M	450	
	PVC conduit 1" or 25mm		M	350	
	PVC conduit 3" or 75mm including fittings		M	30	
0	(Cu) Cable (3 x 25) mm ² or (2 x 25)mm ² + (1 x 25)mm ²		M	30	
1	Grounding rod (Cu) 2.5 m length (Ø=16) mm diameter		Set	1	
2	Single device gnag (Boxes)		No	40	
3	MCB 63 Apms for distribution box Two port (Single Phase)		No	1	
4	Joint box .		No	15	
5	Circuit breaker 20 Amp for power receptacle		No	8	
6	Circuit breaker 10 Amp for lighting		No	8	

NOTES

- 1-Sockets: Vico or equivalent, 400mm from the floor from door side 250mm .
- 2-Switches: Vico or equivalent 1200mm from the floor from the door side 250mm.
- 3-Joint boxes: 400mm from the roof in line with switches and sockets.
- 4-Conduit: PVC goal type semi-flexible.
- 5-All conduit must be in the plaster.
- 6-All bulbs,switches and sockets which are in moisture& out door must be water prove type.
- 7-Lighing circuit is extendable with 2.5mm² wire, single circuit.
- 8-Power circuit is extendable with 4mm² wire, single circuit.
- 9-Distribution box single phase wiring capacity of 36 circuit breakers 22 gauge.
- 10-Circuit Breakers: Vico or Equivalent
- 11-S1- Single Pole Switch
- 12-S2-Two Pole Switch
- 13-PB Penal Board.
- 14-CB Circuit Breaker.
- 15-All connection must have plastic joint.
- 16-R.C.B.O Residual Circuit Breaker Over Current.
- 17-Amp Amperes.
- 18-W Watt.
- 19-Hz Hertz.
- 20-Resistase of grounding should be not more then 25 Ohm per Nic code.
- 21-All wire in Penal board must have mark 1,2,3..Whaich show the Circuit numbers.
- 22-All wire in penal boards must be in plastic cover.

SPECIFICATION OF ELECTRICAL EQUIPMENT




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DATE

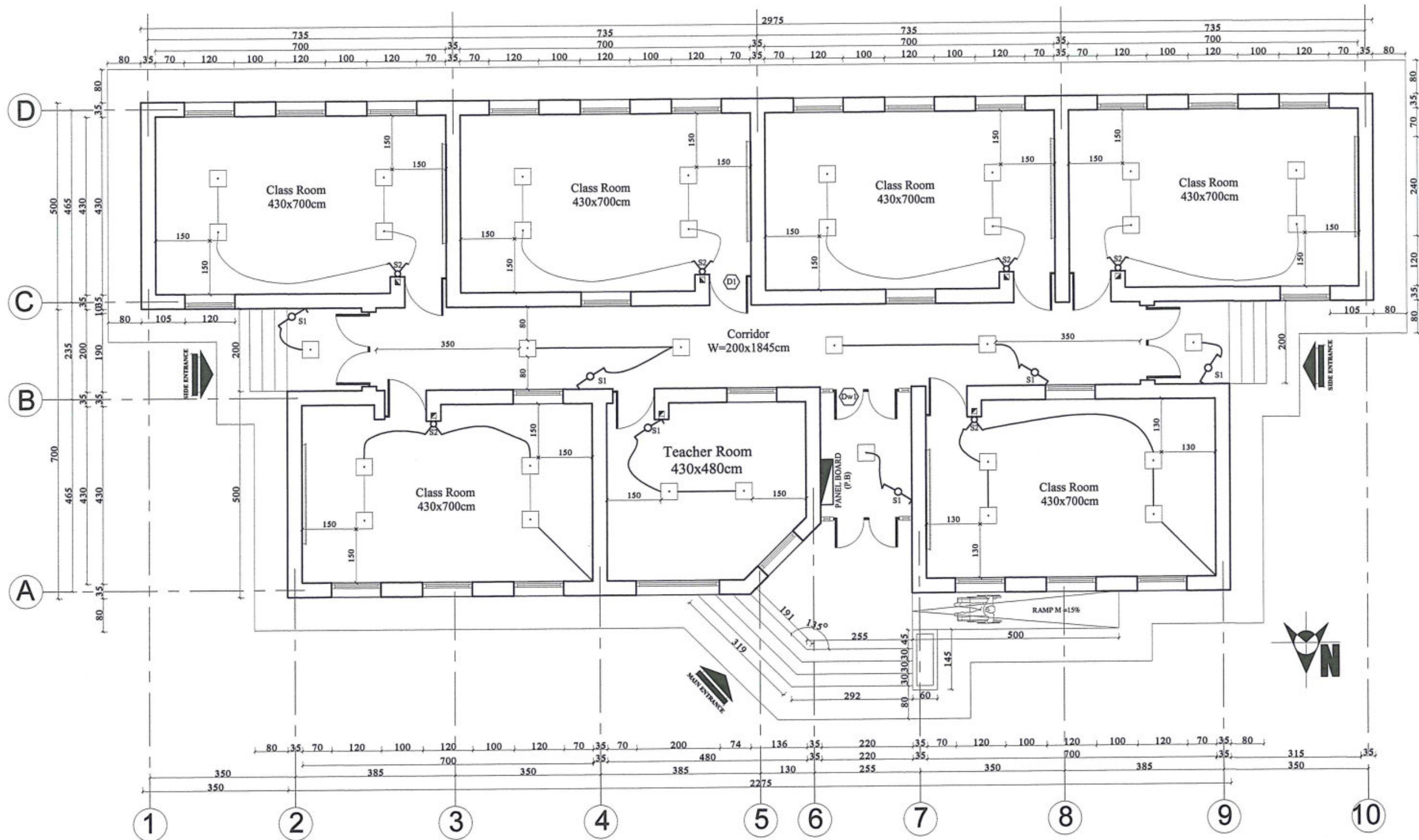
MOE/MRRD/DAARTT
AS SHOWN (A3)
22/07/2018

PROJECT NAME
DRAWING TITLE

6 CLASSROOM SCHOOL BURNT BRICK WALL RCC ROOF H=2.75M
SPECIFICATION AND EQUIPMENTS

SHEET NO.

E1
4



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
PREPLANNED &
CHECKED BY
TECH-APPROVED BY

Ab. QADIR
DAARTT

Combined technical
team
SCALE
DATE

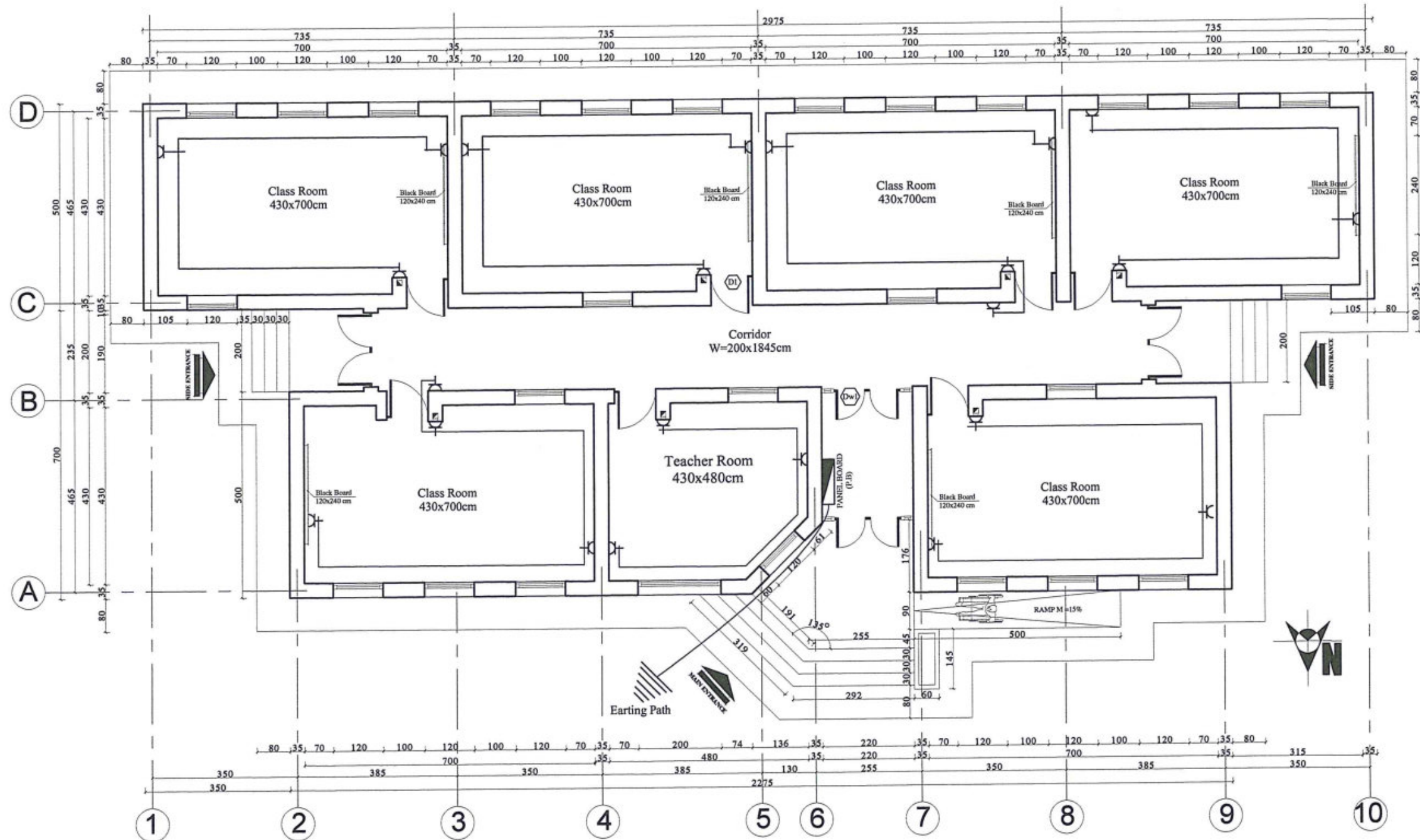
MOE/MRRD/DAARTT
AS SHOWN (A3)
22/07/2018

PROJECT NAME
DRAWING TITLE

6 CLASSROOM SCHOOL BURNT BRICK WALL RCC ROOF H=2.75M
POWER PLAN

SHEET NO.

E2
4



GROUND FLOOR SOCKET PLAN



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
PREPLANNED &
CHECKED BY
TECH. APPROVED BY

Ab.QADIR

DAARTT

[Signature]

Combined technical
team
SCALE
DATE

MOE/MRRD/DAARTT

AS SHOWN (A3)

22/07/2018

PROJECT NAME

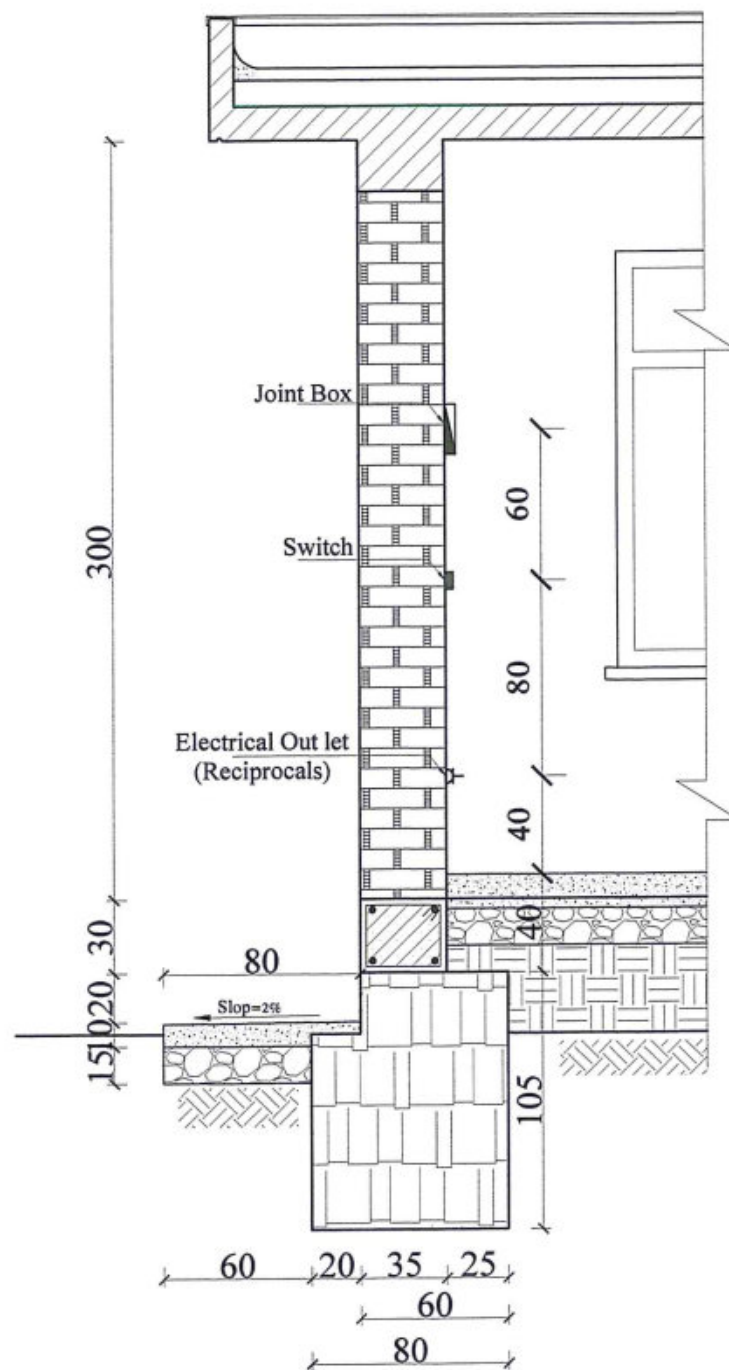
6 CLASSROOM SCHOOL BURNT BRICK WALL RCC ROOF H=2.75M

DRAWING TITLE

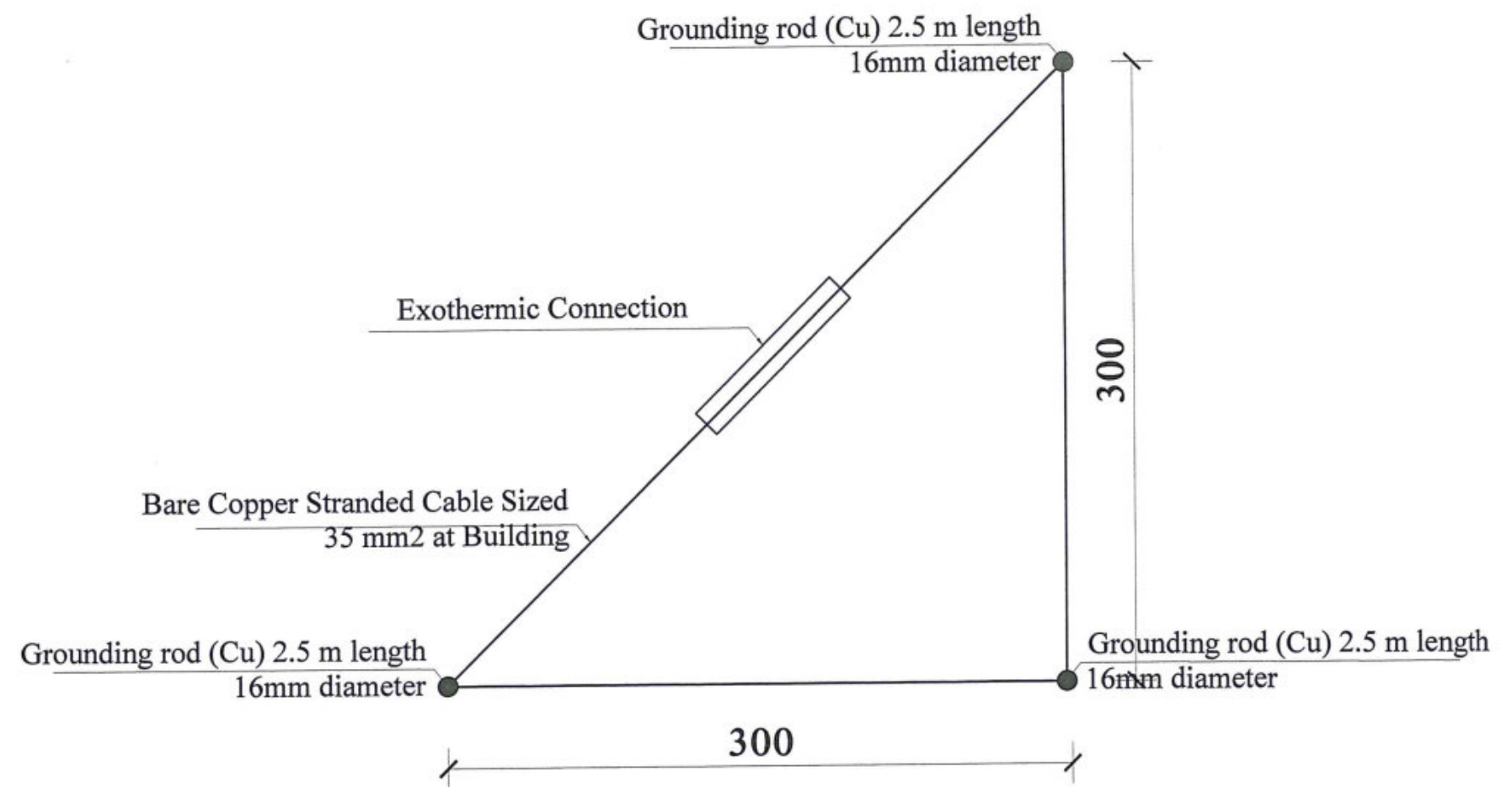
SOCKET PLAN

SHEET NO.

E3
4



ELECTRICAL INSTRUMENT DETAIL



EARTHEN PATH



MINISTRY OF EDUCATION DEPARTMENT
OF CONSTRUCTION



PROTOTYPE SCHOOL DESIGN IN
AFGHANISTAN

ARCHITECT/DESIGN
PREPLANNED &
CHECKED BY
TECH. APPROVED BY

Ab.QADIR
DAARTT

Co. Z. Khan

Combined technical
team
SCALE
DATE

MOE/MRRD/DAARTT
AS SHOWN (A3)
22/07/2018

PROJECT NAME
DRAWING TITLE

6 CLASSROOM SCHOOL BURNT BRICK WALL RCC ROOF H=2.75M
ELECTRIC INSTRUMENT DETAIL

SHEET NO.

E4
4