

MARCH 2015

DESIGN



WITH IRON SHEET ROOF

10+2 CLASS ROOM SCHOOL L SHAPE IN TWO FLOOR RCC SLAB

(DOC)

DEPARTMENT OF CONSTRUCTION / TECHNICAL SERVICES

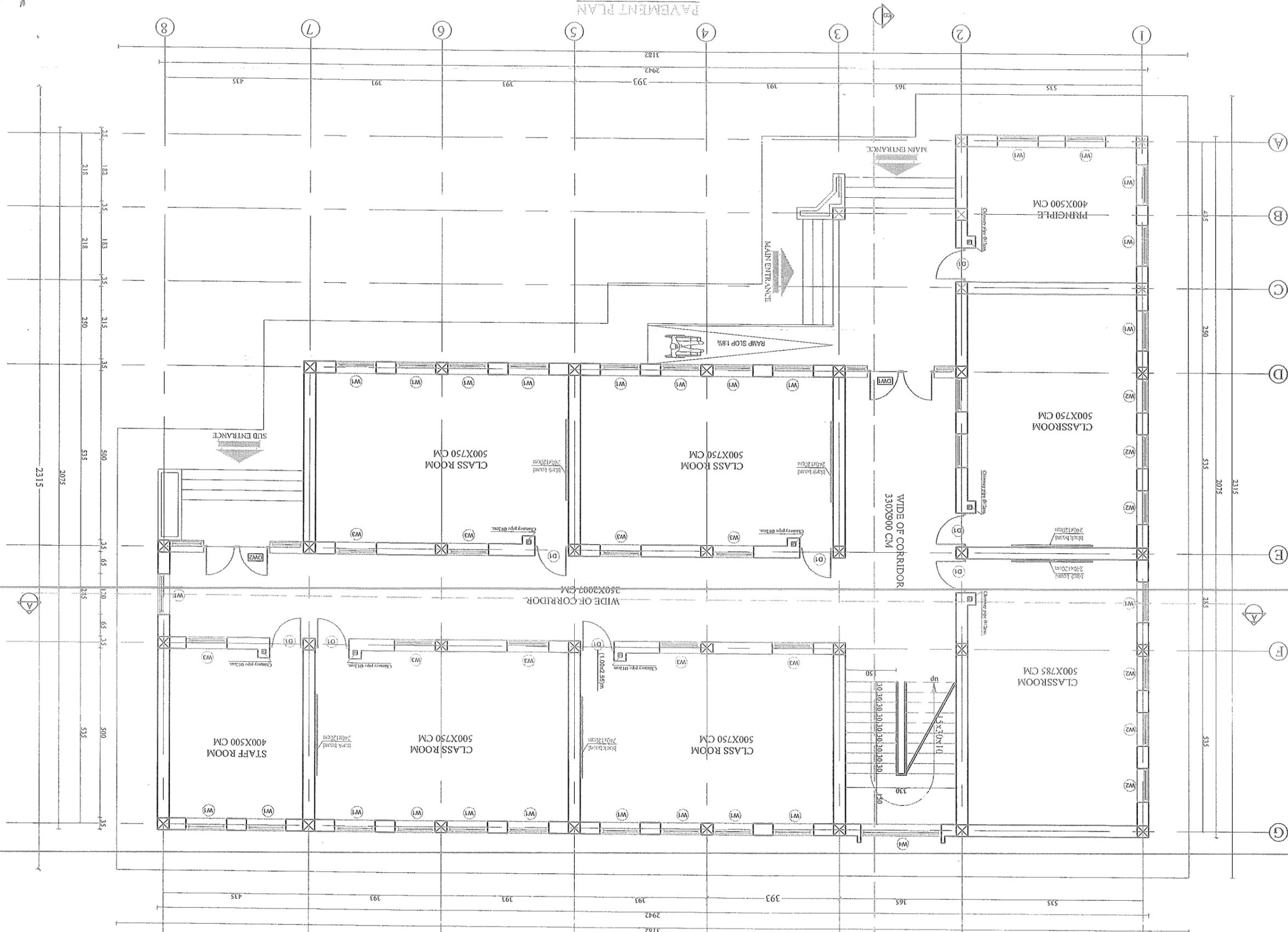
P.D.F

(MOE/DOC)

MINISTRY OF EDUCATION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN	AH NAKILA AFZALI	APPROVED/DOCMOR	ENG ABDULMOHMMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	10+2 CLASS ROOM / PAVEMENT PLAN
TECH - APPROVED BY	ENG AB MATIN MAJIDI	REVISED DATE	MARCH 2015	SCALE	As shown (A3)	PROJECT TYPE/DRAWING TITLE	
STRUCTURE/DESIGN	ENG HEDAVAT						
CODE NO	S-0224						



PAVEMENT PLAN

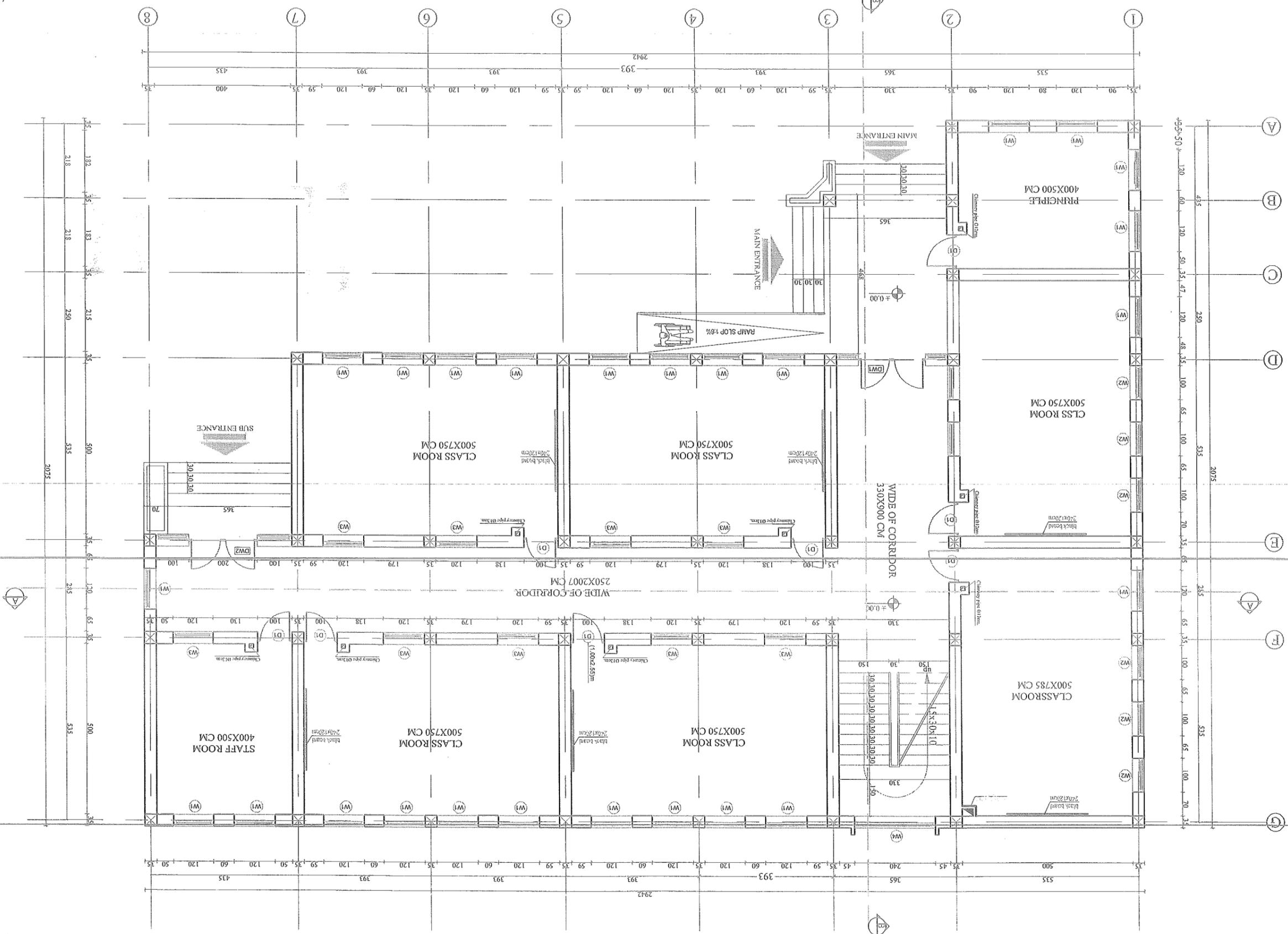


STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

TECH. APPROVED BY ENG. AB. MATIN MAJID	REVISED DATE MARCH 2015	CODE NO. S-0224	PROJECT TYPE / DRAWING TITLE 10+2 CLASS ROOM / GROUND FLOOR PLAN
STRUCTURE / DESIGN ENG. HEDAVAT	SCALE As shown (A3)		
ARCHITECT / DESIGN AH. NAKILA AZALI	APPROVED / DOCUMENT ENG. ABDULMOMEN RAO	DRAWING TYPE ARCHITECTURE	PROJECT NAME



GROUND FLOOR PLAN



Handwritten signature or initials.

# STANDARD SCHOOL DESIGN IN AFGHANISTAN

ARCHITECT/DESIGN  
AHMADIL A. AZALI

APPROVED/DESIGNED  
ENG. ABDULMOHMMED  
RAD

SCALE  
As shown (A3)

REVISED DATE  
MARCH 2015

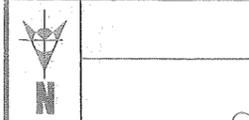
CODE NO.  
S-0284

PROJECT TYPE/DRAWING TITLE  
10+2 CLASS ROOM / FIRST FLOOR PLAN

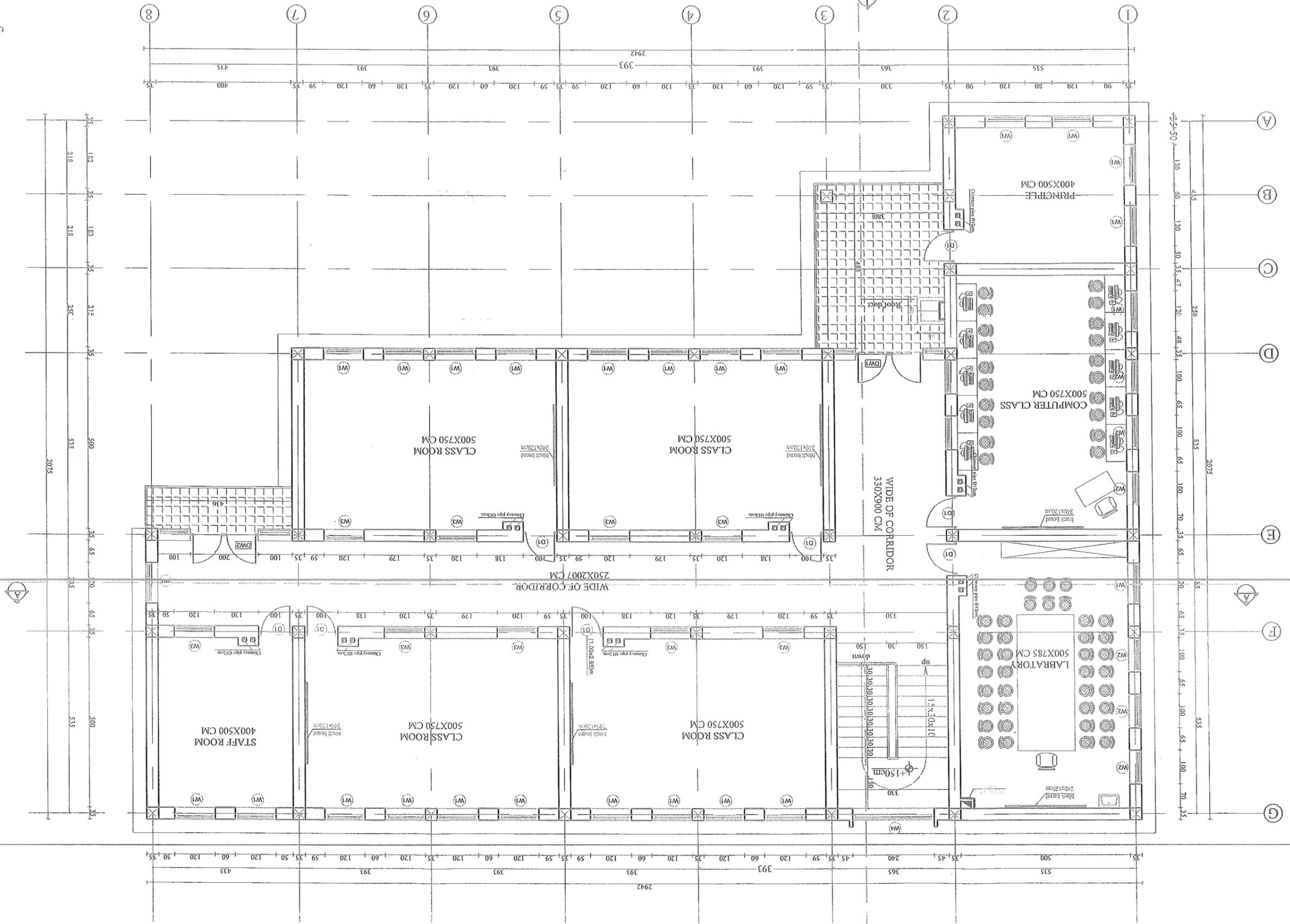
PROJECT NAME

ARCHITECTURE

3  
15



## FIRST FLOOR PLAN

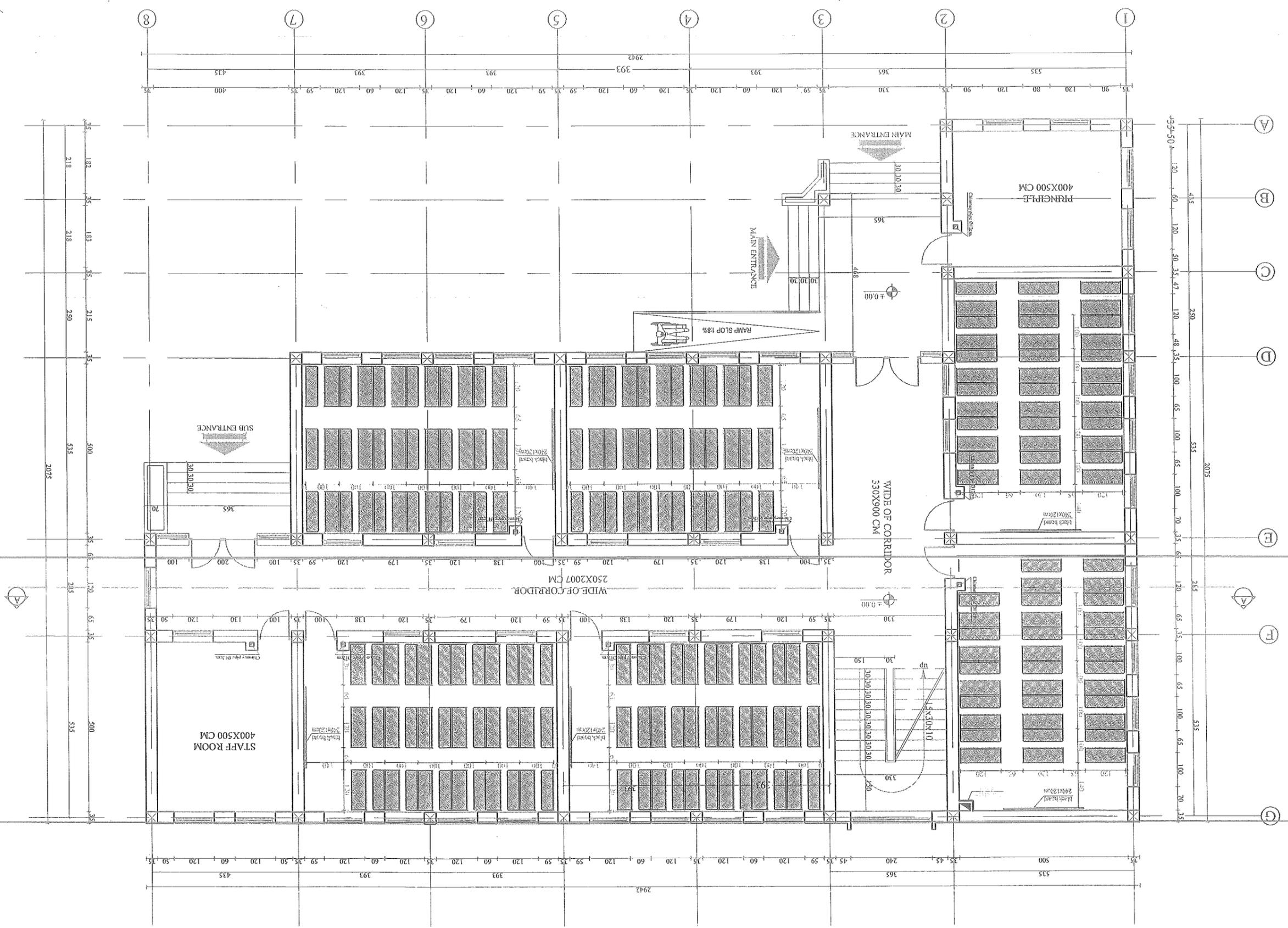


Handwritten notes and initials in the top right corner of the drawing area.

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

TECH. APPROVED BY ENG. ARBATIN. MAJID	REVISD DATE MARCH 2015	CODE NO. S. 0254	PROJECT TYPE/DRAWING TITLE 10+2 CLASS ROOM / FURNITURE PLAN
ARCHITECT/DESIGN AH. NAJILA AFZALI	APPROVED/Doc. No. ENG. ABDULMOHSEN RAD	DRAWING TYPE ARCHITECTURE	PROJECT NAME
STRUCTURE/DESIGN ENG. HEDAYAT	SCALE As shown (A3)	ARCHITECTURE	

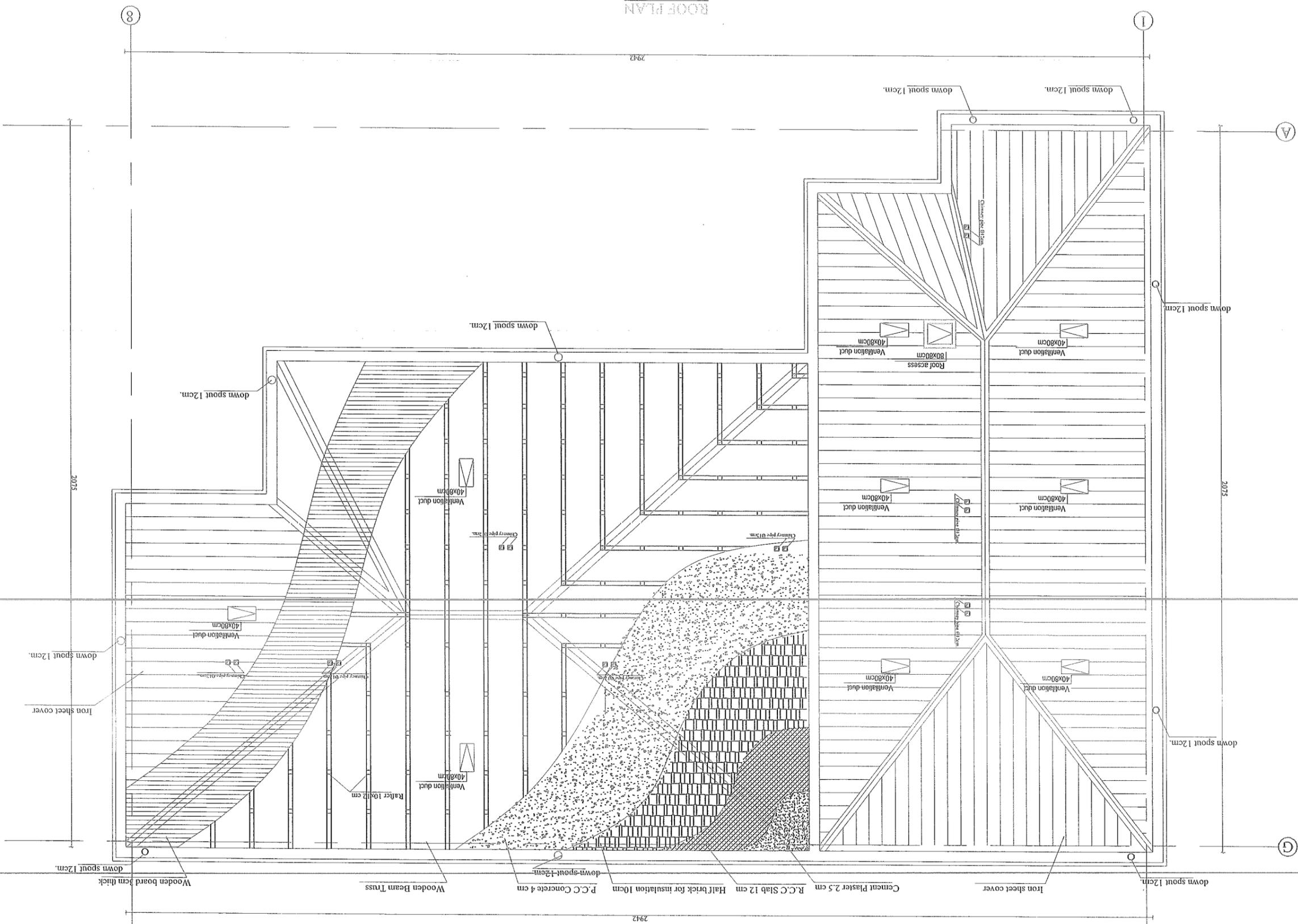
FURNITURE PLAN



STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN AH. MAKILA AFZALI	APPROVED-DESIGNER ENG. ABDULMOMIN RAJ	STRUCTURE/DESIGN ENG. HEDAYAT	TECH. APPROVED BY ENG. AB. MATIR. MAJIDI
ARCHITECTURE	DRAWING TYPE	SCALE As shown (A3)	REVISID DATE MARCH 2015
PROJECT NAME	PROJECT TYPE/DRAWING TITLE 10+2 CLASS ROOM / ROOF PLAN	CODE NO S-024	5

ROOF PLAN



*M*

2942

2942

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN:  
AHNAKILA AFZALI

APPROVED: Doc: M  
ENG. ABDUL MOHME  
RAD

REVISID DATE:  
MARCH 2015

SCALE:  
As shown (A3)

DRAWING TYPE:  
ARCHITECTURE

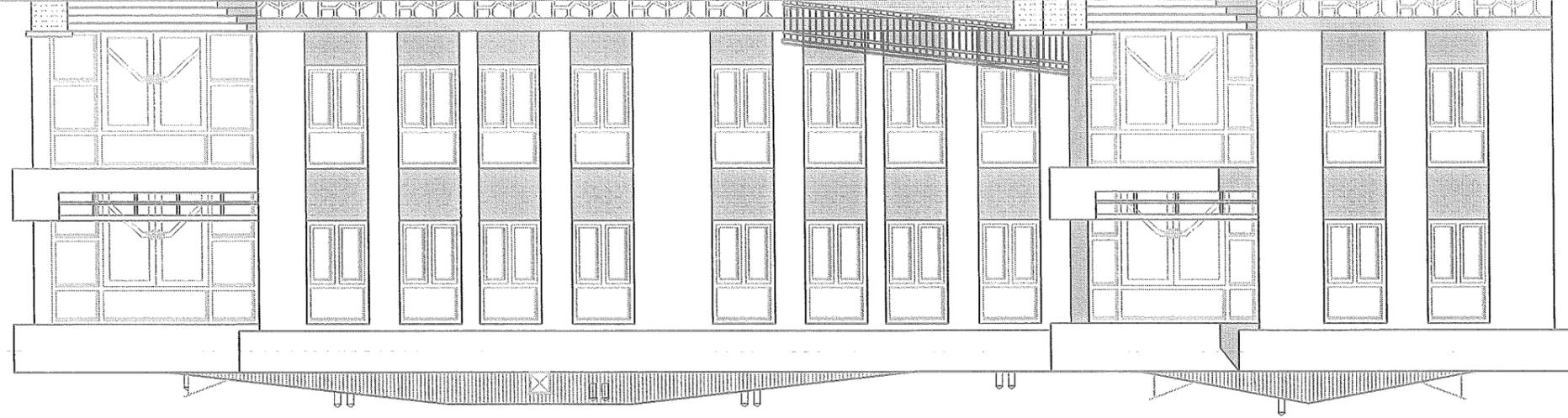
PROJECT NAME:  
10+2 CLASS ROOM / FRONT & BACK ELEVATION

PROJECT TYPE/DRAWING TITLE:  
10+2 CLASS ROOM / FRONT & BACK ELEVATION

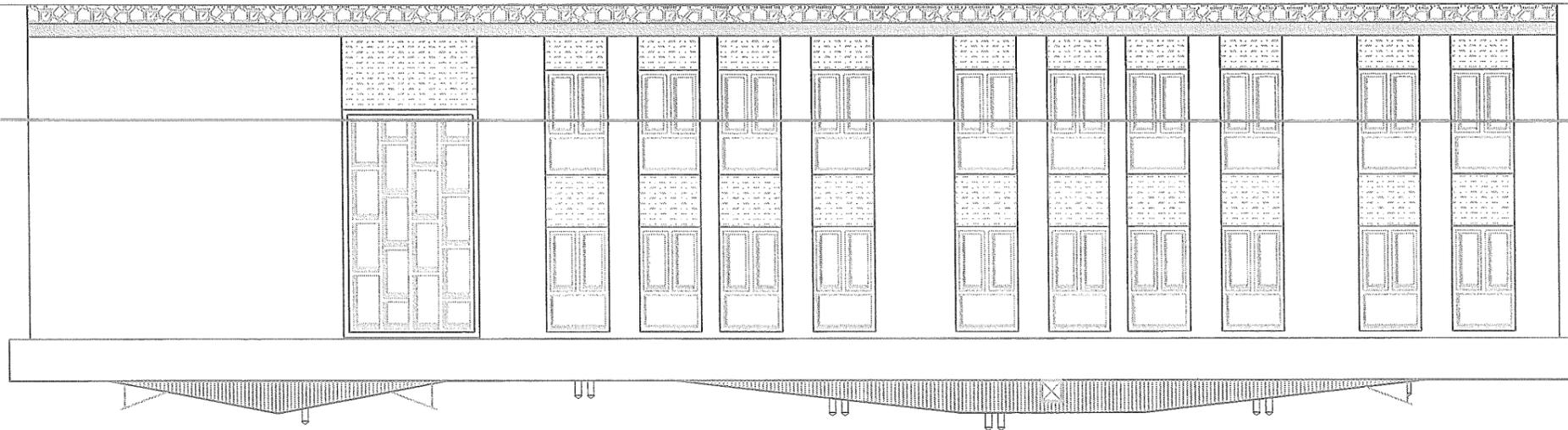
CODE NO:  
S-0224  
6  
15



FRONT ELEVATION



BACK ELEVATION



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN  
AHNAKILA AFZALI

APPROVED-DOCS  
ENG. ABDULMOHMMEN  
RAD

REVISID DATE  
MARCH 2015

SCALE  
As shown (A3)

CODE NO  
S-0254

ARCHITECTURE  
7  
15

PROJECT TYPE/DRAWING TITLE  
10+2 CLASS ROOM / SIDE ELEVATION



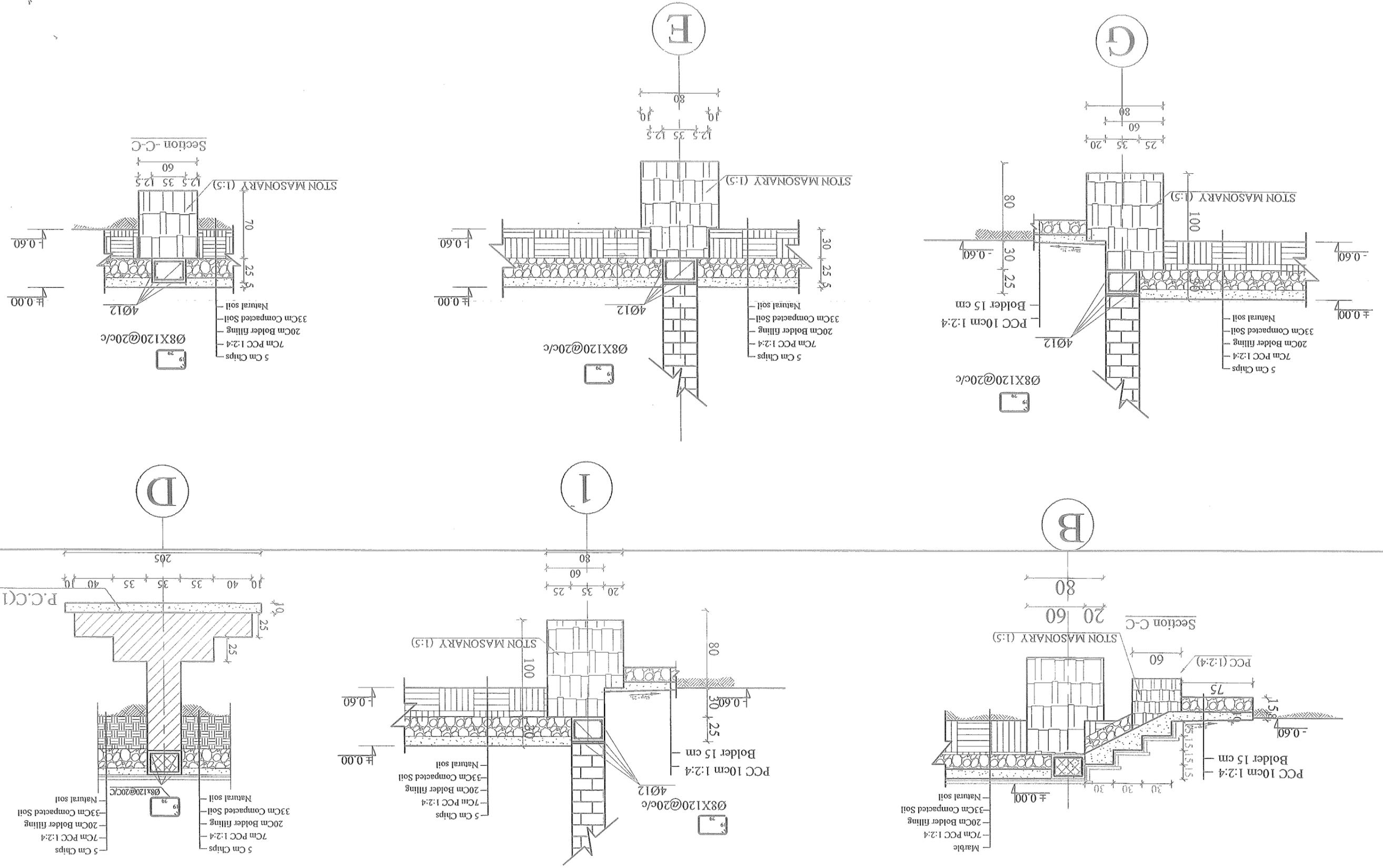






STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN AH.NAKILA AFZALI	APPROVED/DATE ENG.ABDULMOHMMEN RAD	SCALE As shown (A3)	REVISED DATE MARCH 2015	TECH. APPROVED BY ENG.AB.MATIN. MAQOL
DRAWING TYPE ARCHITECTURE	CODE NO S-0284	PROJECT TYPE/DRAWING TITLE 10+2 CLASS ROOM / DETAILS	PROJECT NAME	





STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN  
AHMAKILA AFZALI

APPROVED/Doc/Mod  
ENG.ABDULMOHSEN  
HAD

SCALE  
As shown (A3)

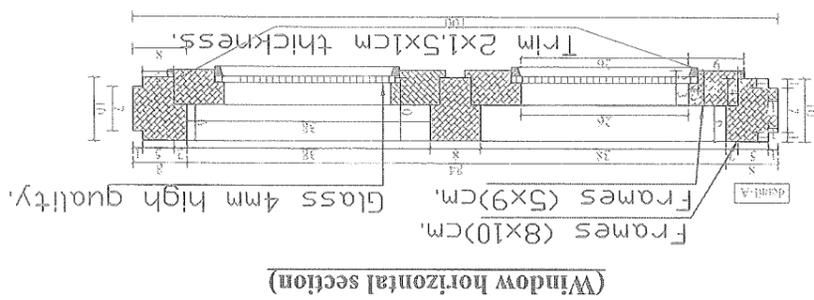
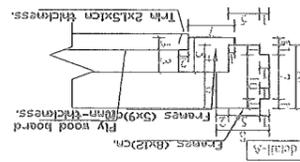
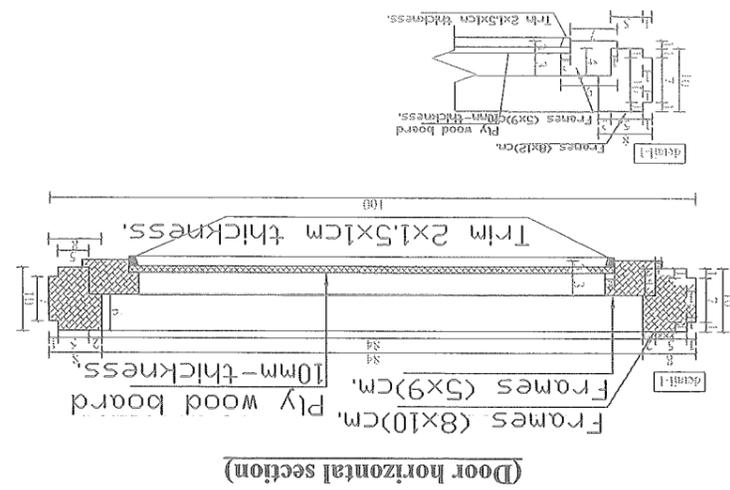
REVISED DATE  
MARCH 2015

CODE NO  
S.0254

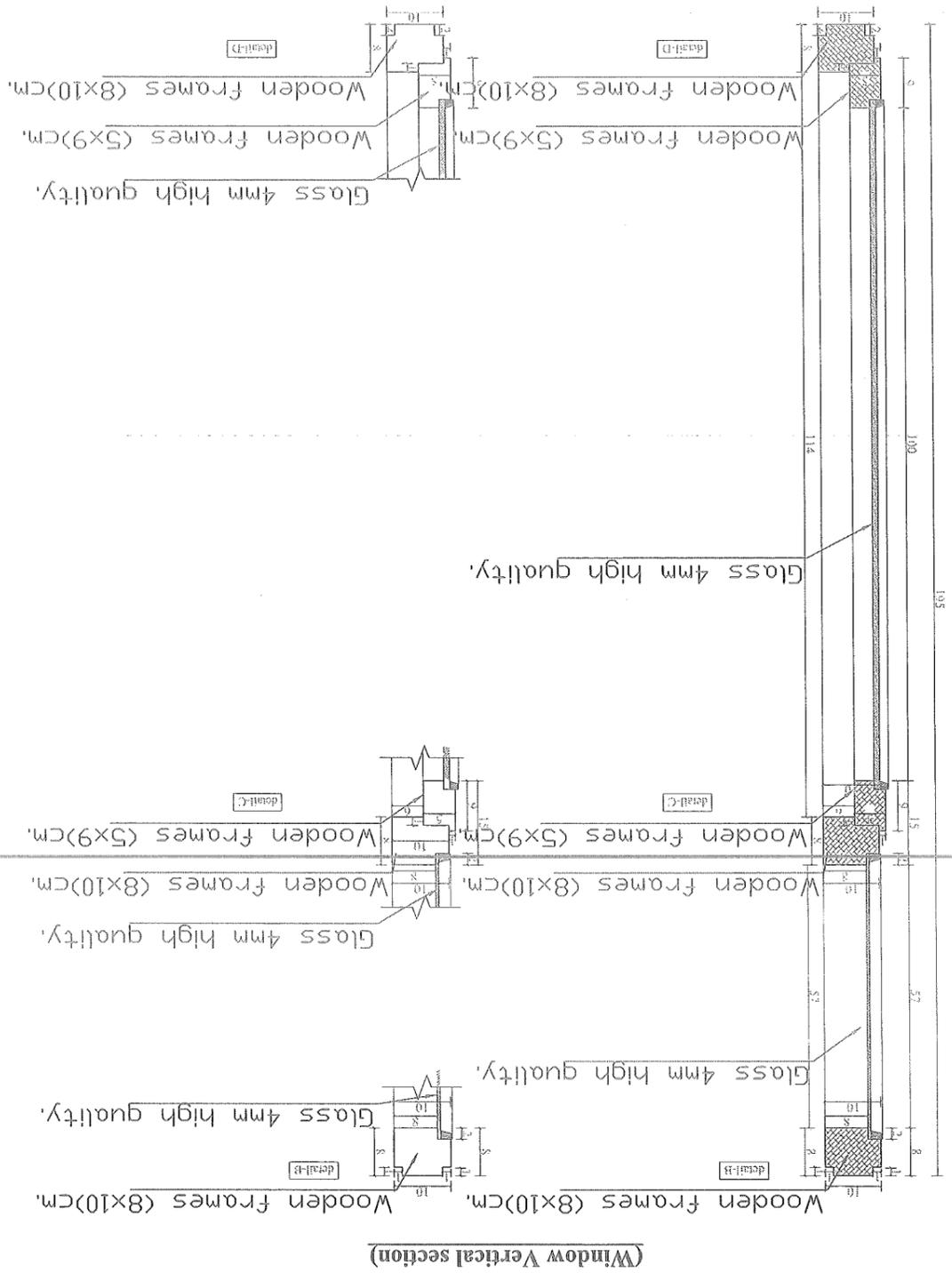
ARCHITECTURE  
13

PROJECT NAME

PROJECT TYPE/DRAWING TITLE  
10+2 CLASS ROOM / DOOR & WINDOW DETAILS



detail-A



detail-D

detail-D

detail-C

detail-C

detail-B

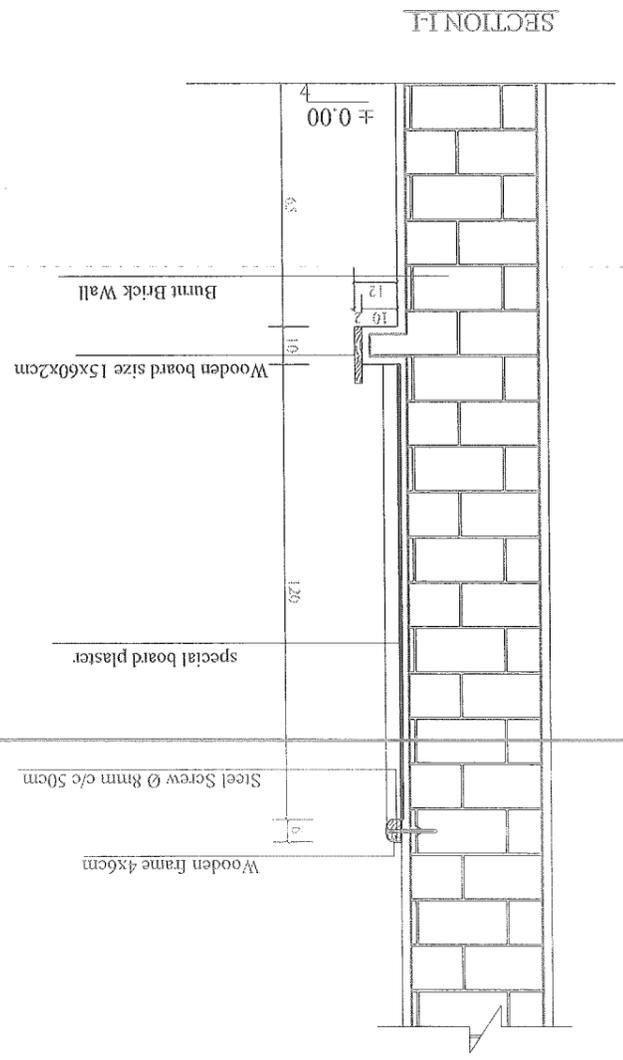
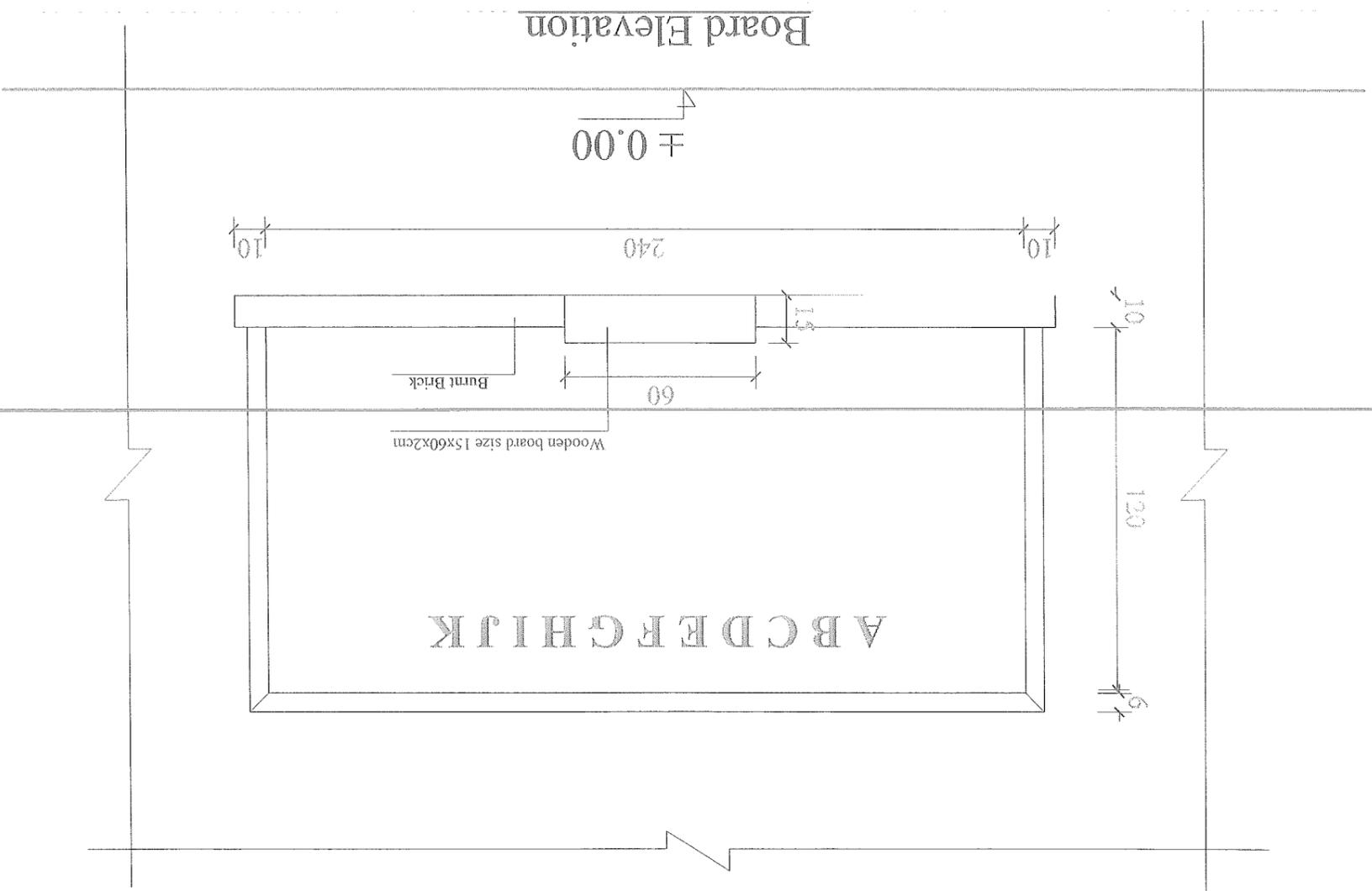
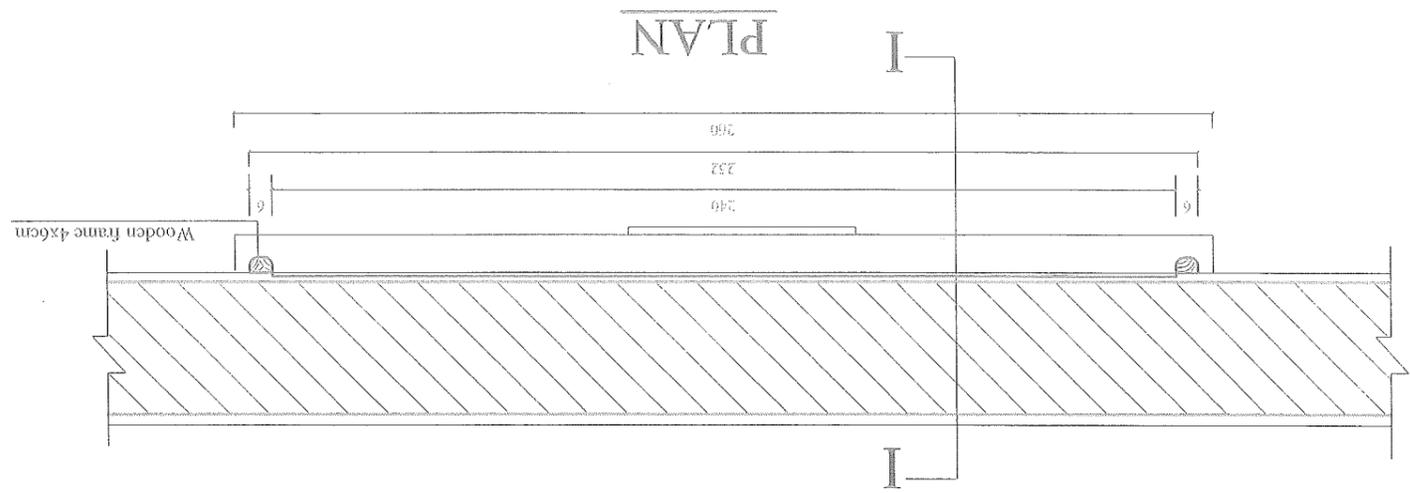
detail-B

2/10



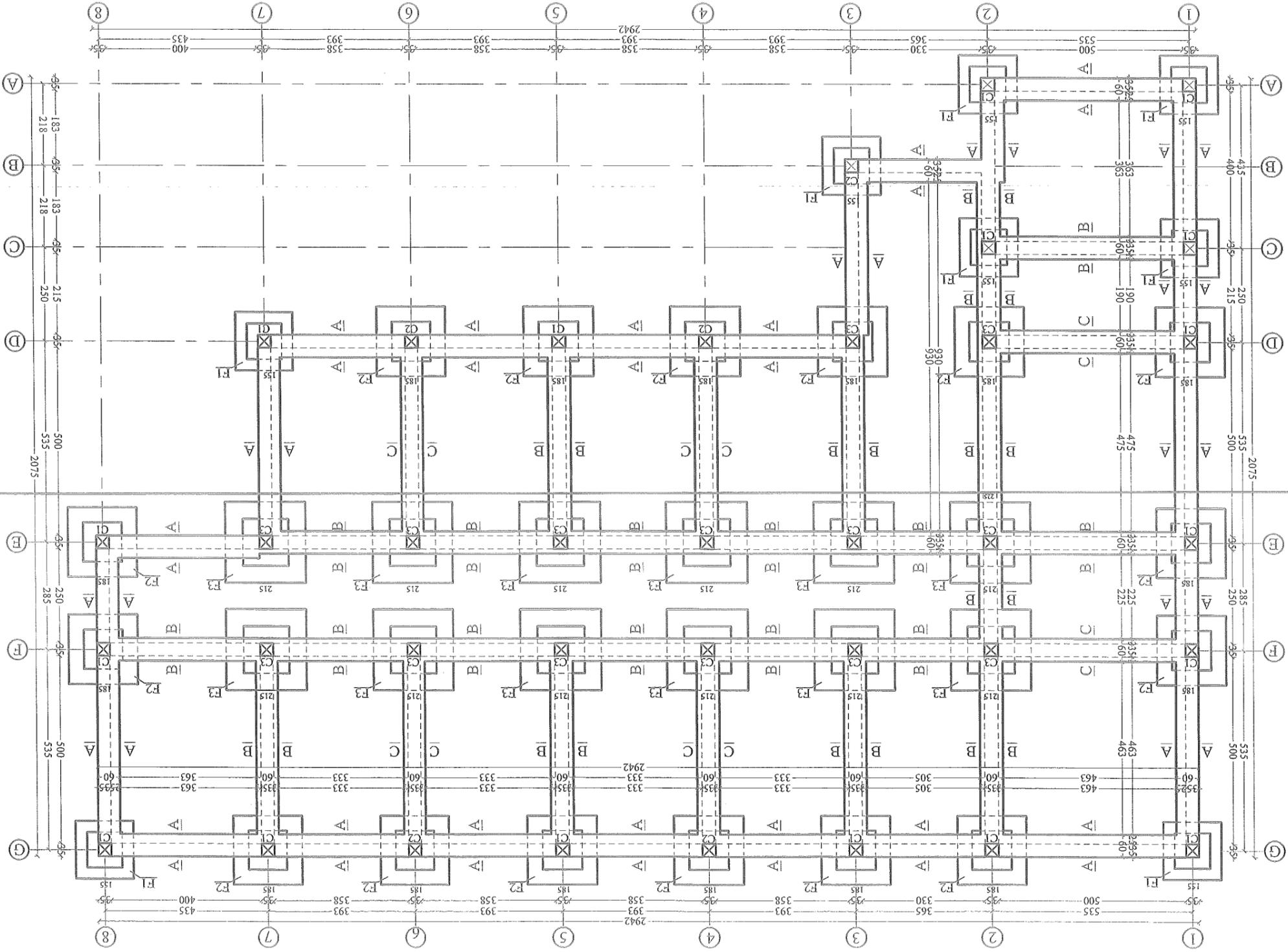
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

TECH. APPROVED BY ENG. ABIMATIN, MAQOL	REVISD DATE MARCH 2015	CODE NO. S-0254	PROJECT TYPE/DRAWING TITLE 10+2 CLASS ROOM / BOARD DETAIL
STRUCTURE/DESIGN ENG. HEDAVAT	SCALE As shown (A3)	ARCHITECTURE 15	PROJECT NAME
ARCHITECT/DESIGN AHNAKILA AFZALI	APPROVED: Doc: Mod: RAD	DRAWING TYPE	



MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		TECH. APPROVED BY ENG. B. MATIN NAJOL	DATE & CODE # 3-17-2015 (S-0254)	SHEET No 17	DRAWING TITLE FOUNDATION PLAN
PROJECT NAME 12 CLASS ROOM SCHOOL BURN BRICK R.C.C ROOF.		CHECKED BY ENG. M. RAHIM ANDAR		APPROVED/Doc/No ENG. A. MOMIN, IAD	SCALE AS SHOWN (A3)	DRAWING TYPE STRUCTURAL	
RC/DESIGN ENG. HEDAYATULLAH (Hedaya)		APPROVED/Doc/No ENG. A. MOMIN, IAD		APPROVED/Doc/No ENG. A. MOMIN, IAD			

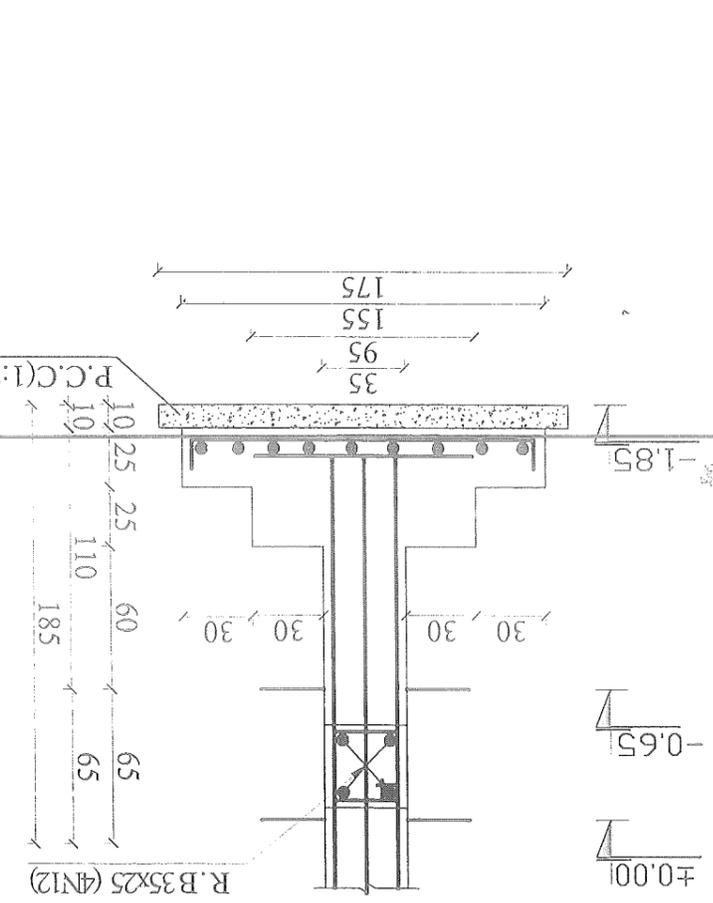
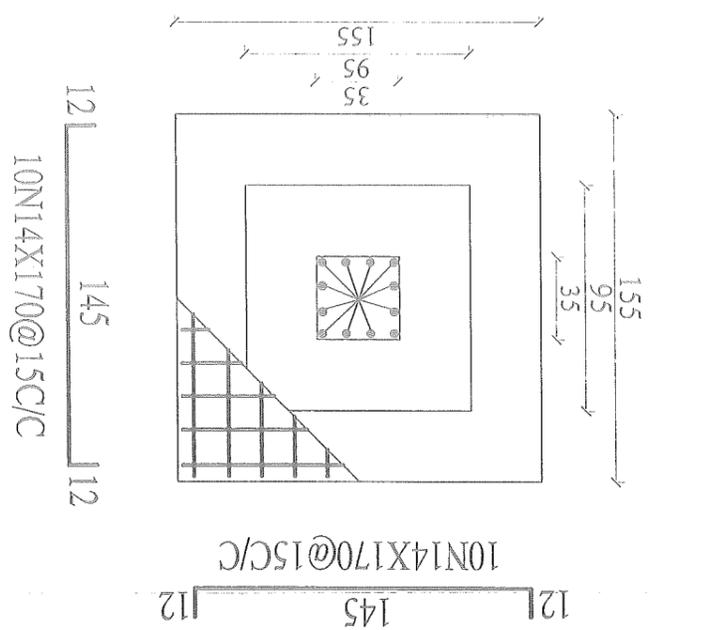
- 1-Base on soil that result the safe bearing capacity of soil has been assumed as (1.5 Kg/cm<sup>2</sup>) at foundation level.
- 2-Minimum depth of foundation below original firm soil will be (80cm).
- 3-Concrete for all reinforced elements will be of ratio(1:1.5:3) and cubical strength of (200kg/cm<sup>2</sup>) after 28 days.
- 4-Reinforcement grade 1 mild steel having minimum yield stress of (280kg/cm<sup>2</sup>) that shown by (Ø).
- 5-Reinforcement grade 2 deformed bars having minimum yield stress(4200kg/cm<sup>2</sup>) that shown by (N).
- 6-P.C.C(1:2:4).



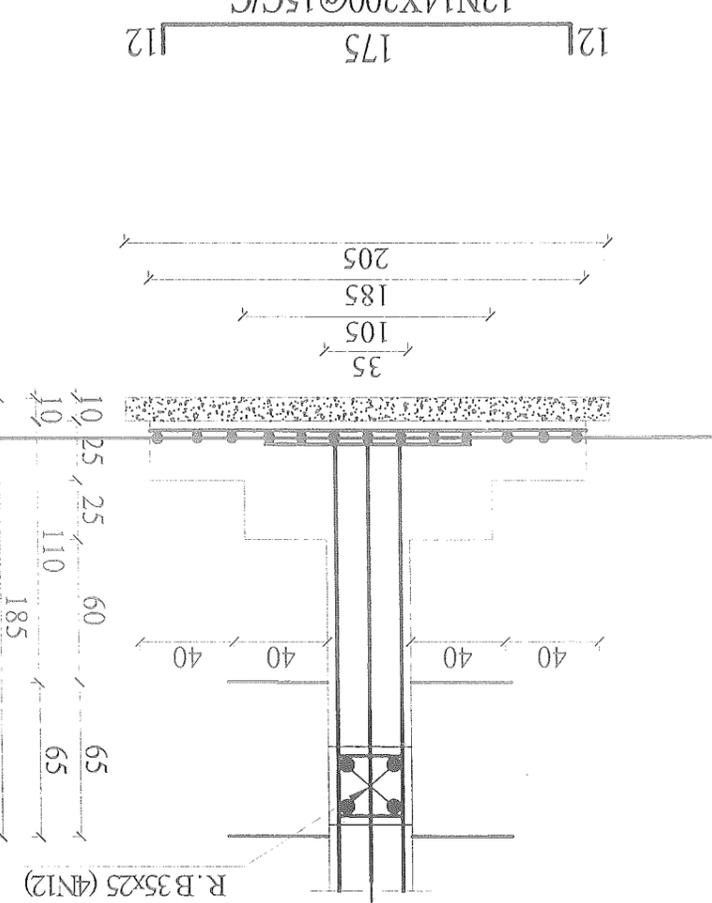
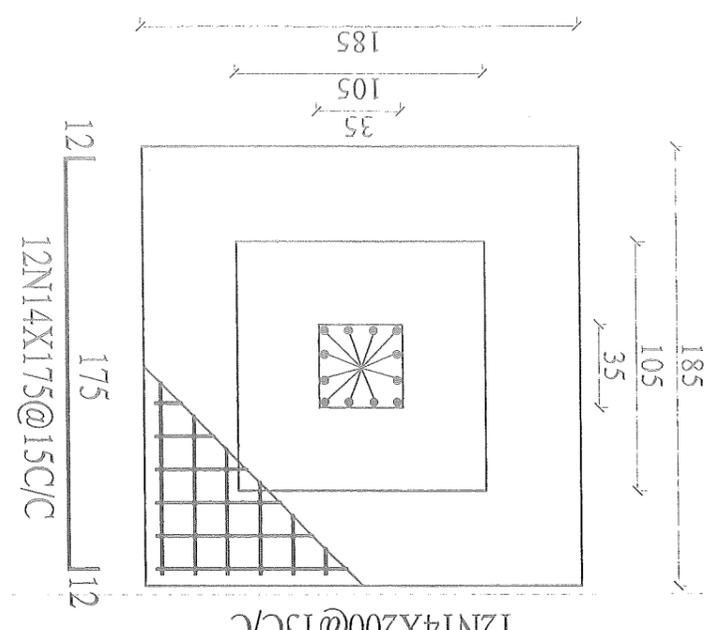
FOUNDATION PLAN

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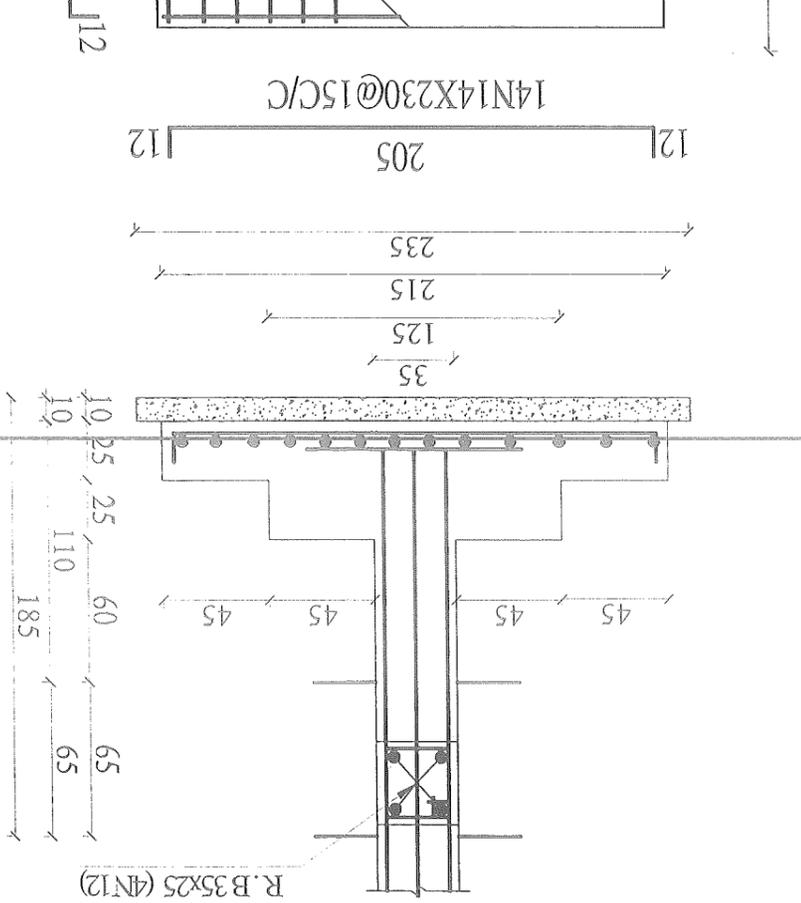
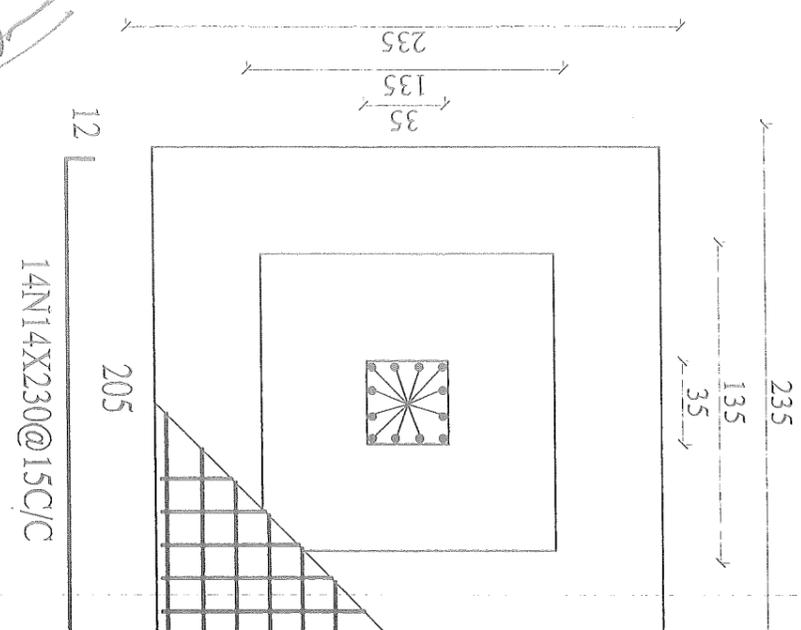
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION	STANDARD SCHOOL DESIGN IN AFGHANISTAN	RECD DESIGN ENG: HEDAVATI ELMI (Afghanistan)	APPROVED: Dec/16 ENG: A. MOMIN (RAV)	DRAWING TYPE STRUCTURAL	SHEET No 17 2	PROJECT NAME 12 CLASS ROOM SCHOOL SCHOOL BRICK R.C.C. ROOF	DRAWING TITLE FOUNDATION SECTIONS
TECH. APPROVED BY ENG: A. B. MATIN (MIAOOL)	CHECKED BY ENG: A. FAHIM, ANDAR	APPROVED: Dec/16 ENG: A. MOMIN (RAV)	SCALE	AS SHOWN (A3)	DATE & CODE # 8-4-2015 (S-0254)		



F-1  
N=8  
Ø8x120@20C/C



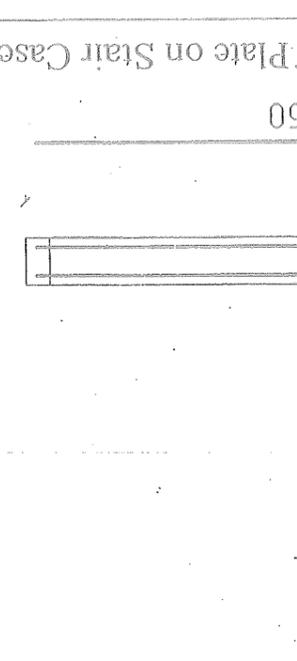
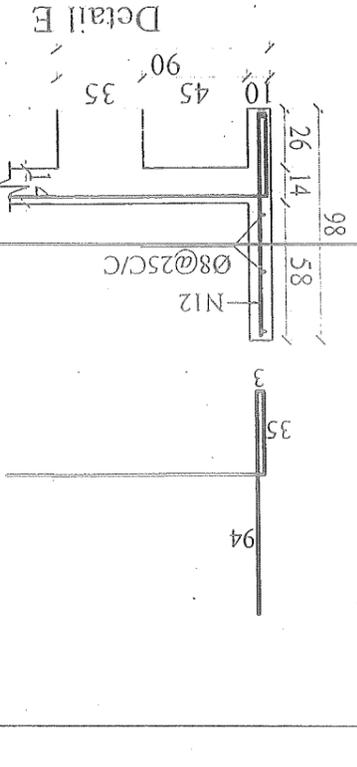
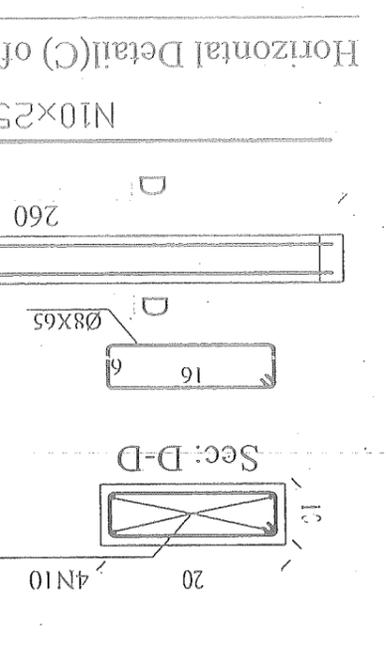
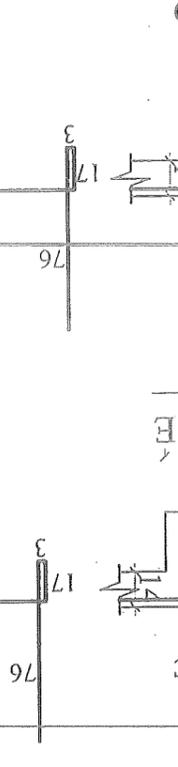
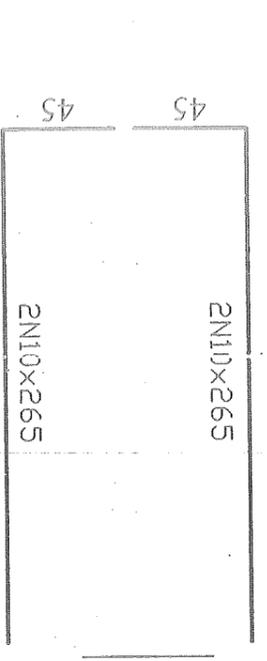
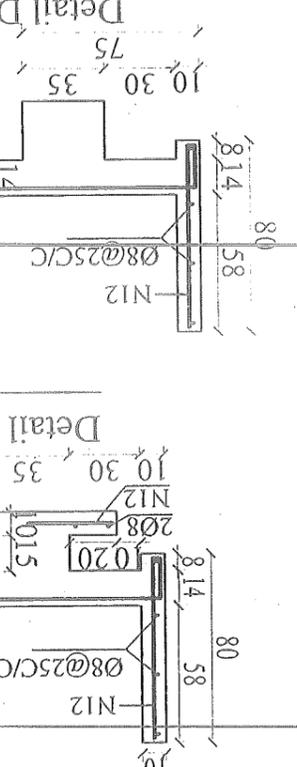
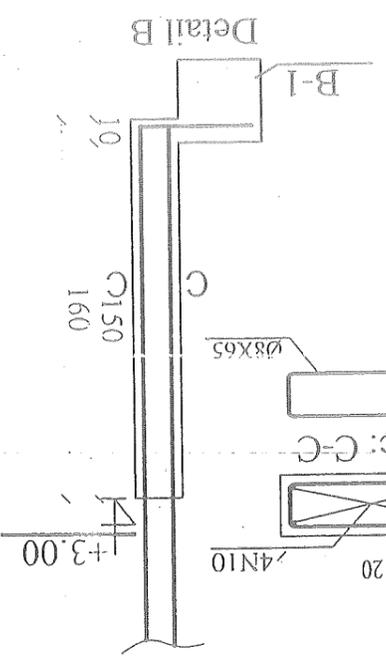
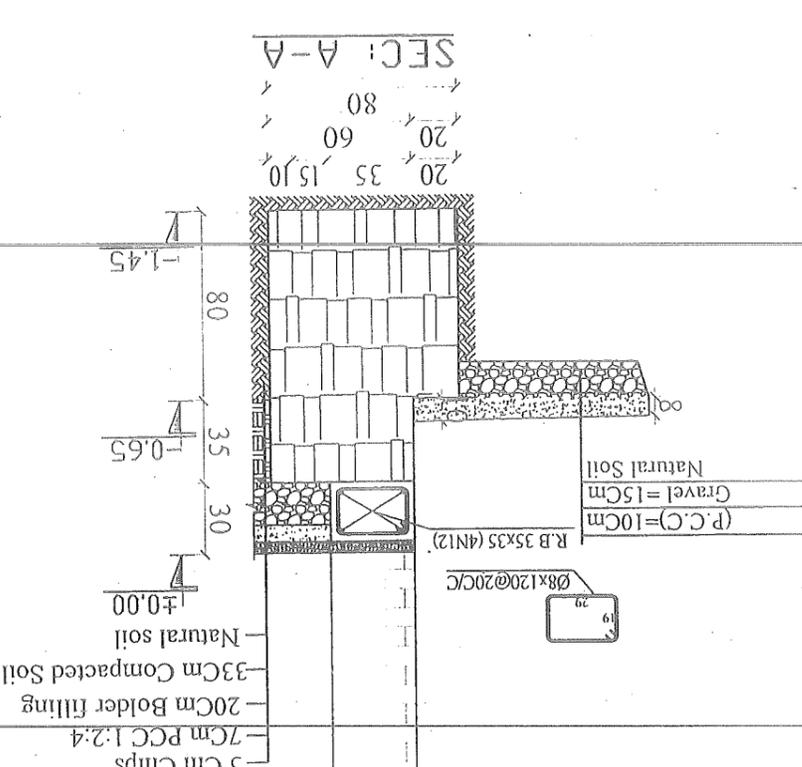
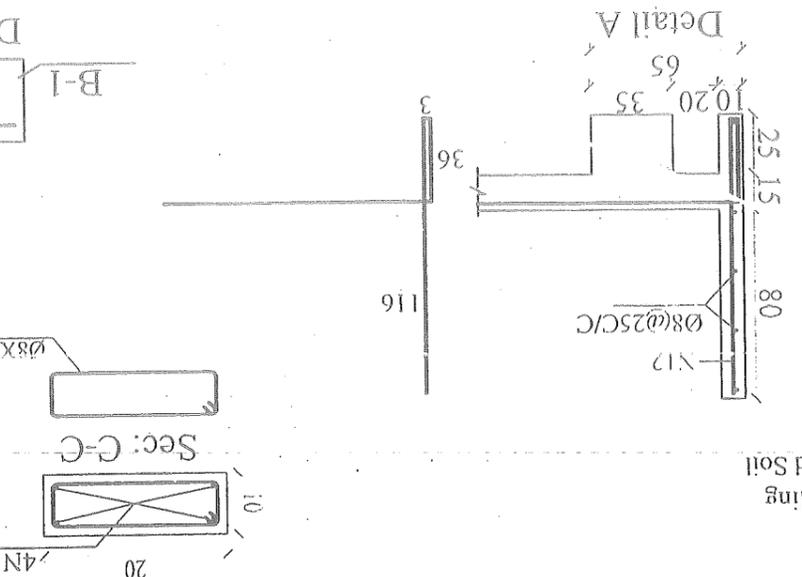
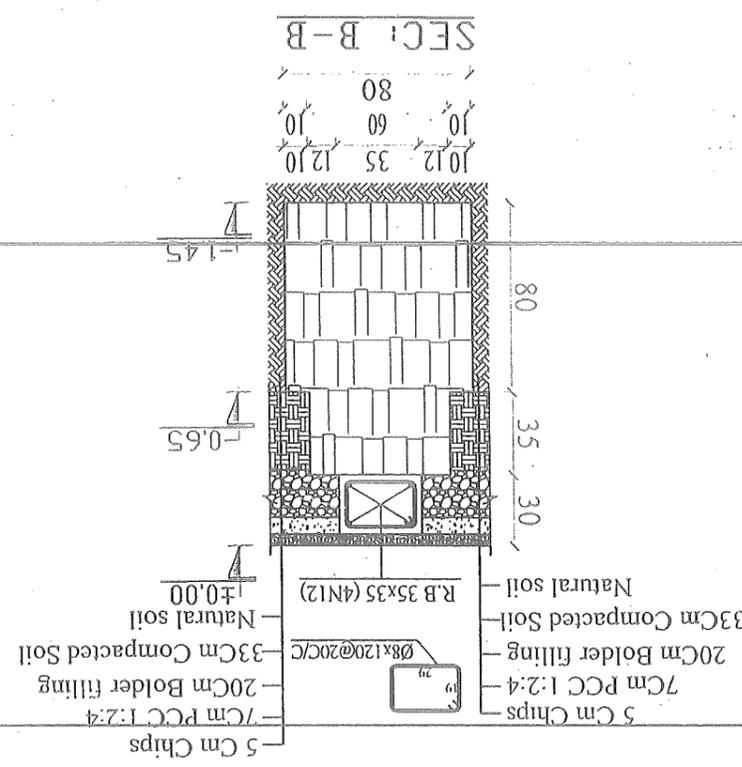
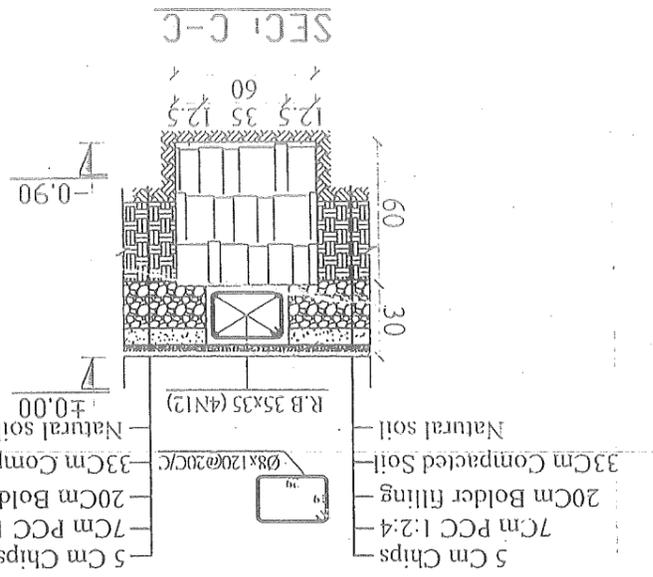
F-2  
N=16  
Ø8x120@20C/C



F-3  
N=12  
Ø8x120@20C/C

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



Horizontal Detail(C) of Plate on Stair Case

Handwritten notes and signatures in the top right corner.

APPROVED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

ENGINNER: \_\_\_\_\_  
ENGINNER: \_\_\_\_\_

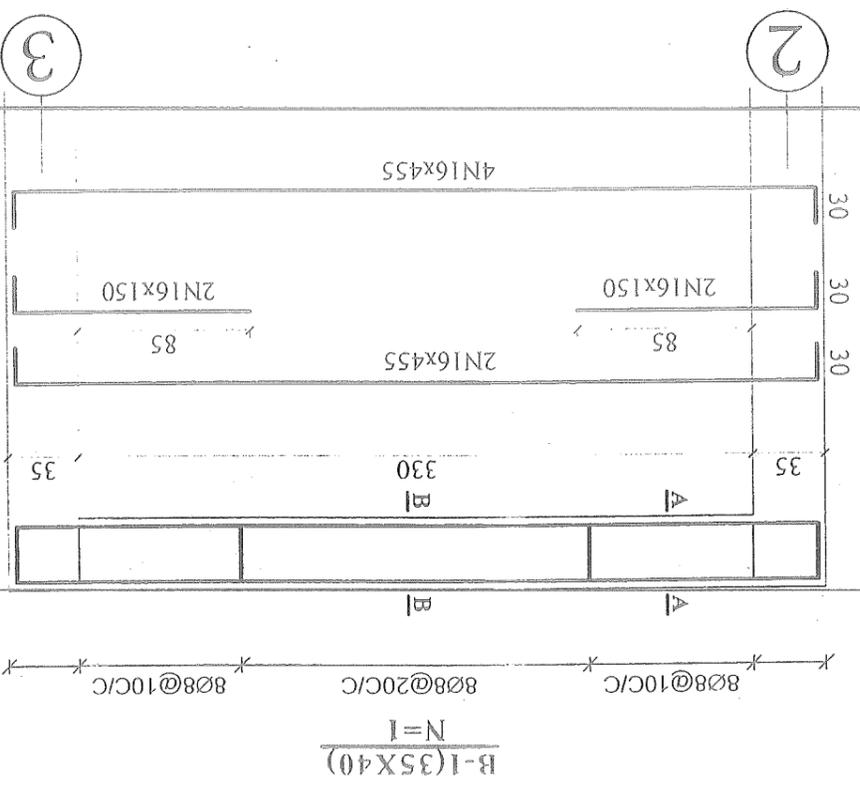
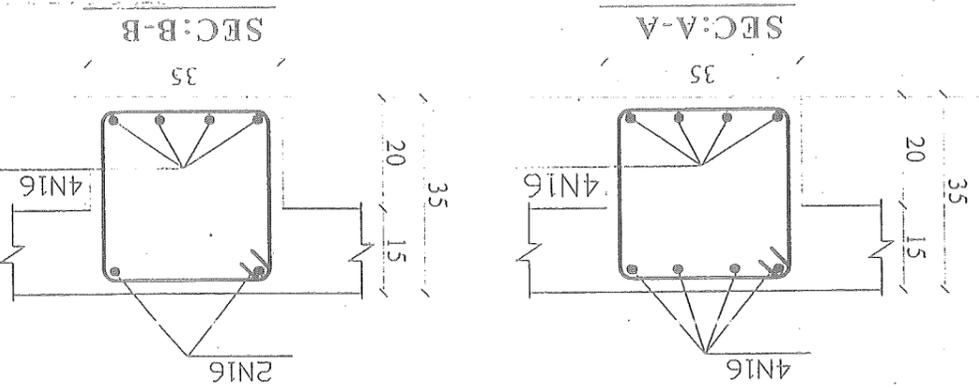
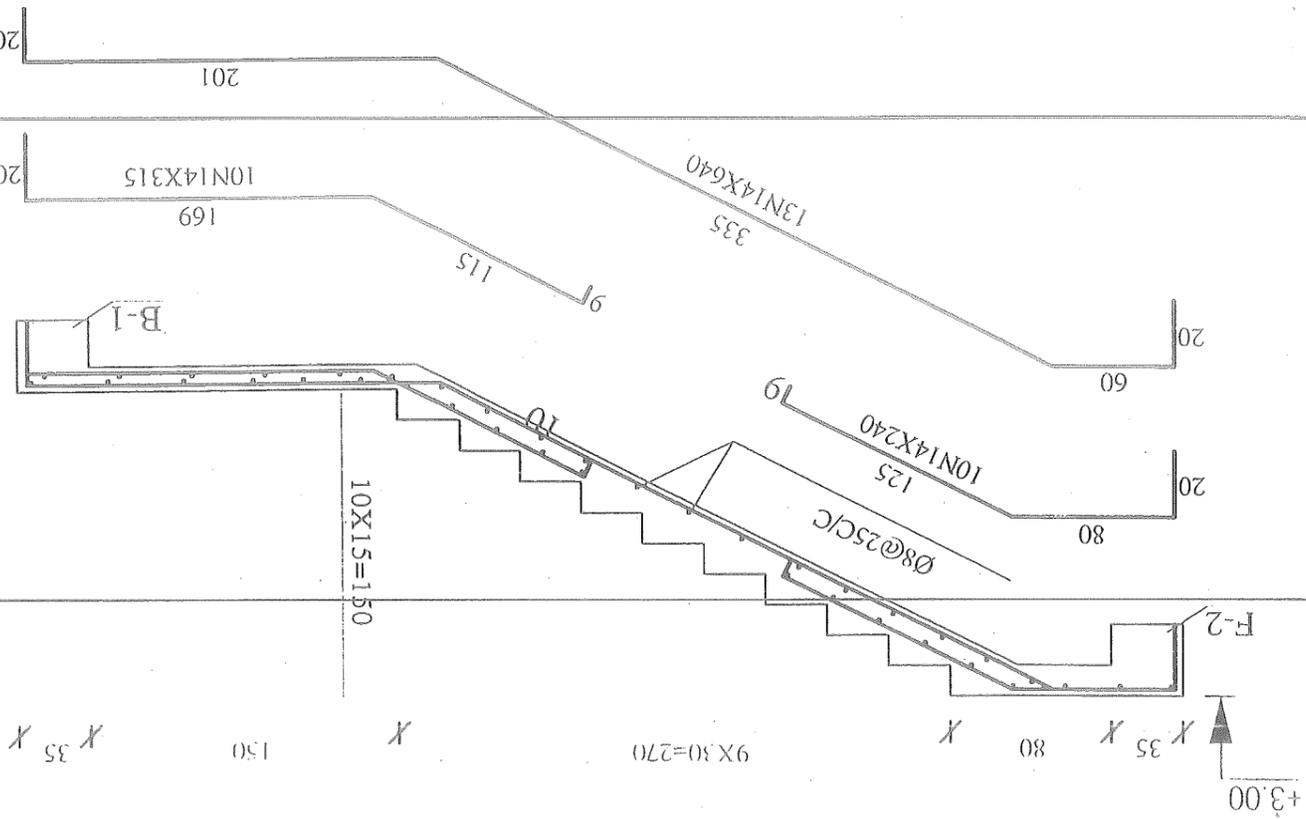
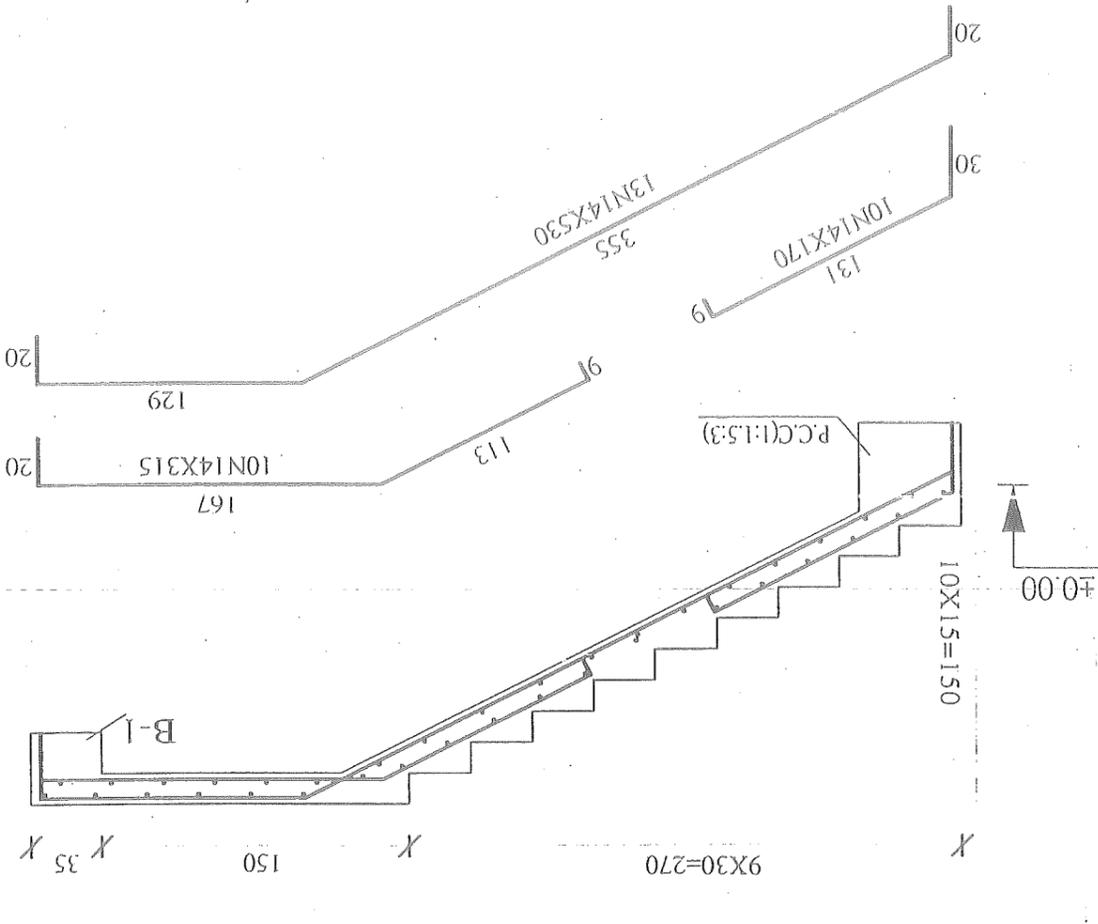
SCALE: \_\_\_\_\_  
DATE & CDR: \_\_\_\_\_

AS SHOWN (A)  
R: 2015 (S-0254)

SHEET NO. 17  
DRAWING TYPE: STAIR CASE  
PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C ROOF

DRAWING TITLE: STAIR CASE DETAILING

# STAIR CASE DETAILING

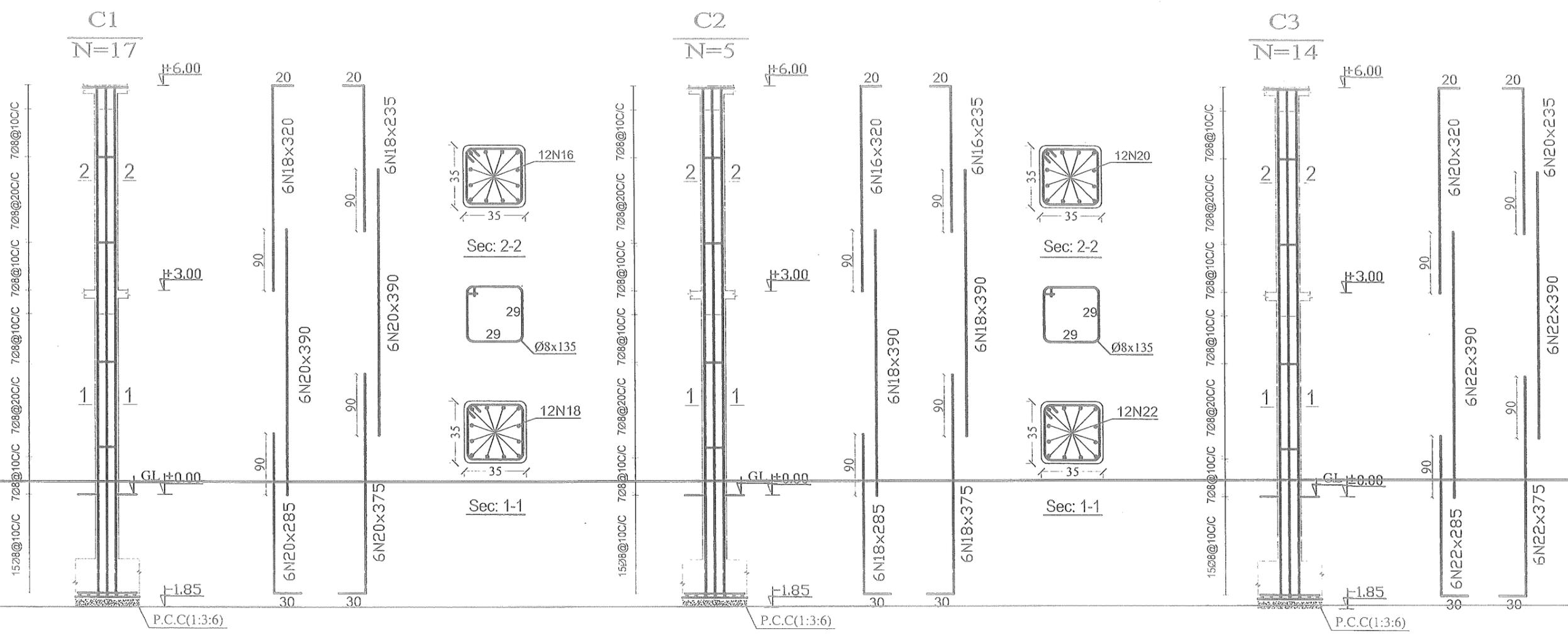


± 3.00

± 3.00

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



COLUMNS DETAILING

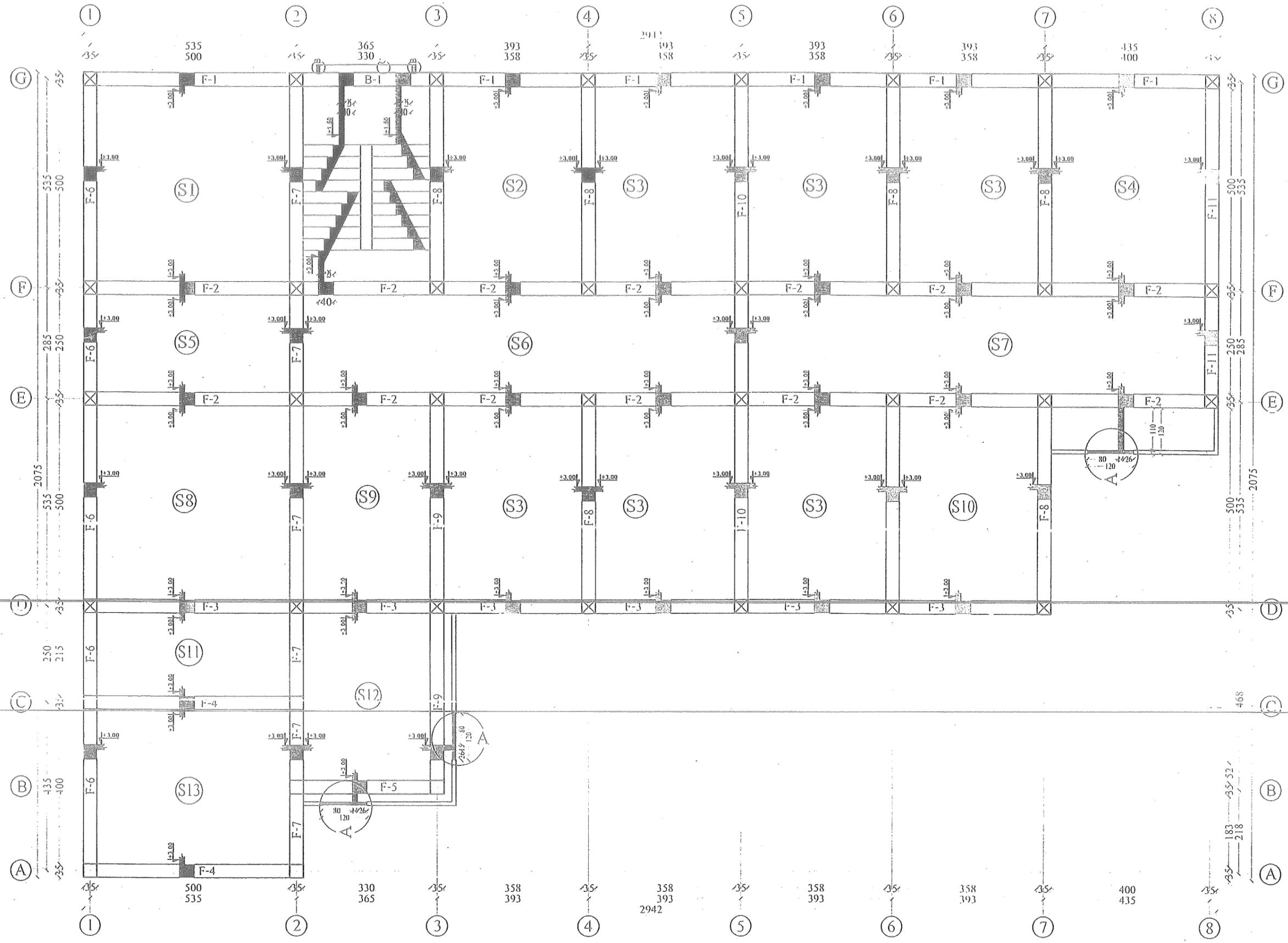
MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RCO/DESIGN	ENG. HEDAYATULLAH (Hedayat)	APPROVED: Date/Msc	ENG. AB. NOMIN. RAD
CHECKED BY	ENG. M. RAHIM. ANDAR	SCALE	AS SHOWN (A3)
TECH. APPROVED BY	ENG. AB. MATIN MAQOOL	DATE & CODE #	8-4-2015 (S-0254)

DRAWING TYPE: STRUCTURAL  
SHEET No: 5/17

PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C ROOF.  
DRAWING TITLE: COLUMNS DETAILING



GROUND FLOOR SHUTTERING PLAN AT LEVEL 3.00

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

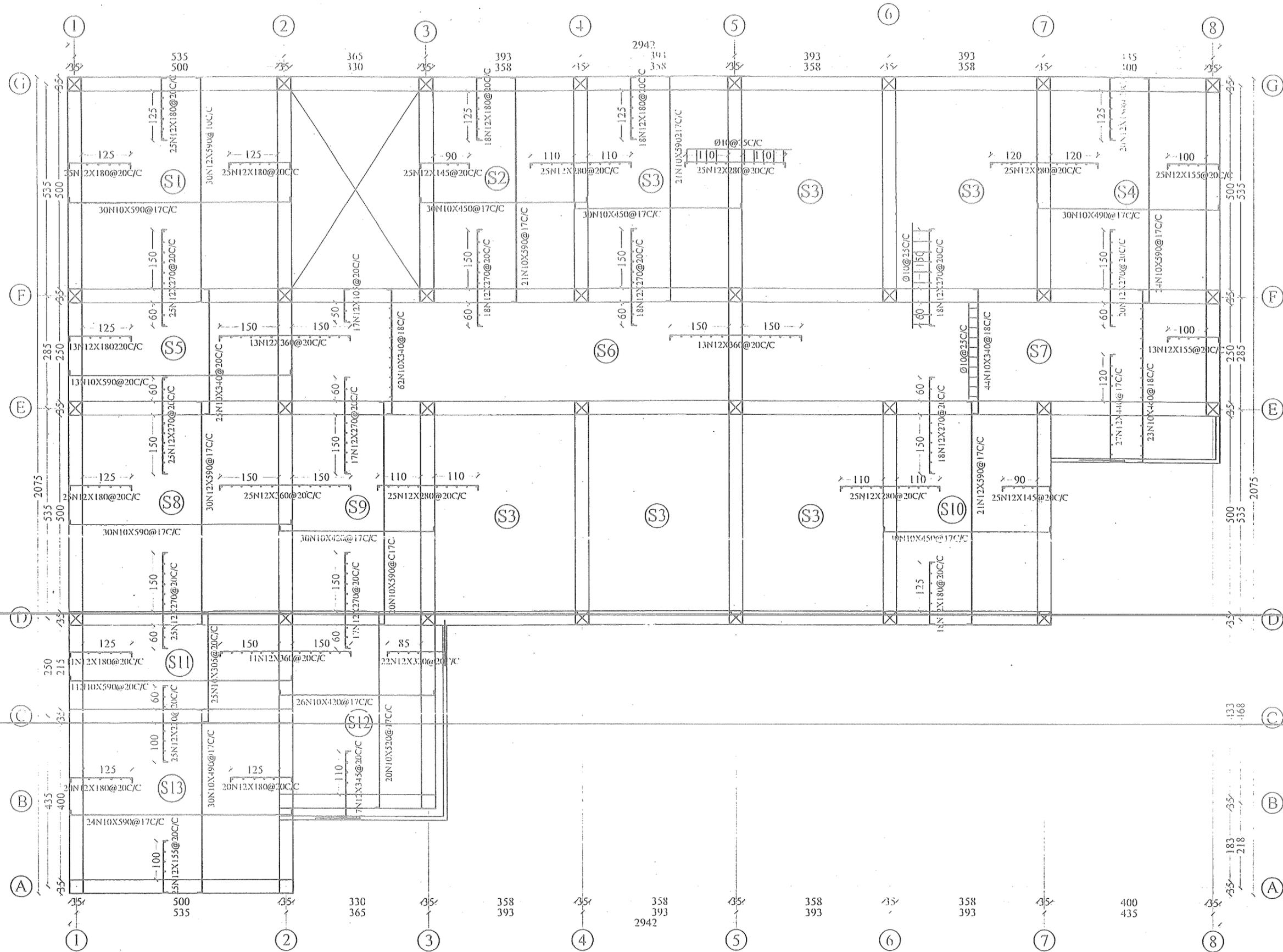
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RC DESIGN: ENG. HEDAYA DULAIR (10199)  
 CHECKED BY: ENG. M. RAHIM ANDAR  
 ECHE APPROVED BY: ENGLABMAMUN MAJOL  
 APPROVED: Doc/Moe: ENG. AB. MOMIN RAD  
 SCALE: AS SHOWN (A1)  
 DATE & CODE: J. 1.11.2015 (S-0254)

DRAWING TYPE: STRUCTURAL  
 SHEET No: 6/17

PROJECT NAME:  
DRAWING TITLE:

12 CLASS ROOM SCHOOL BURN BRICK R.C.C. ROOF.  
GROUND FLOOR SHUTTERING PLAN AT LEVEL +3.00



GROUND FLOOR REINFORCEMENT PLAN AT LEVEL 3.00

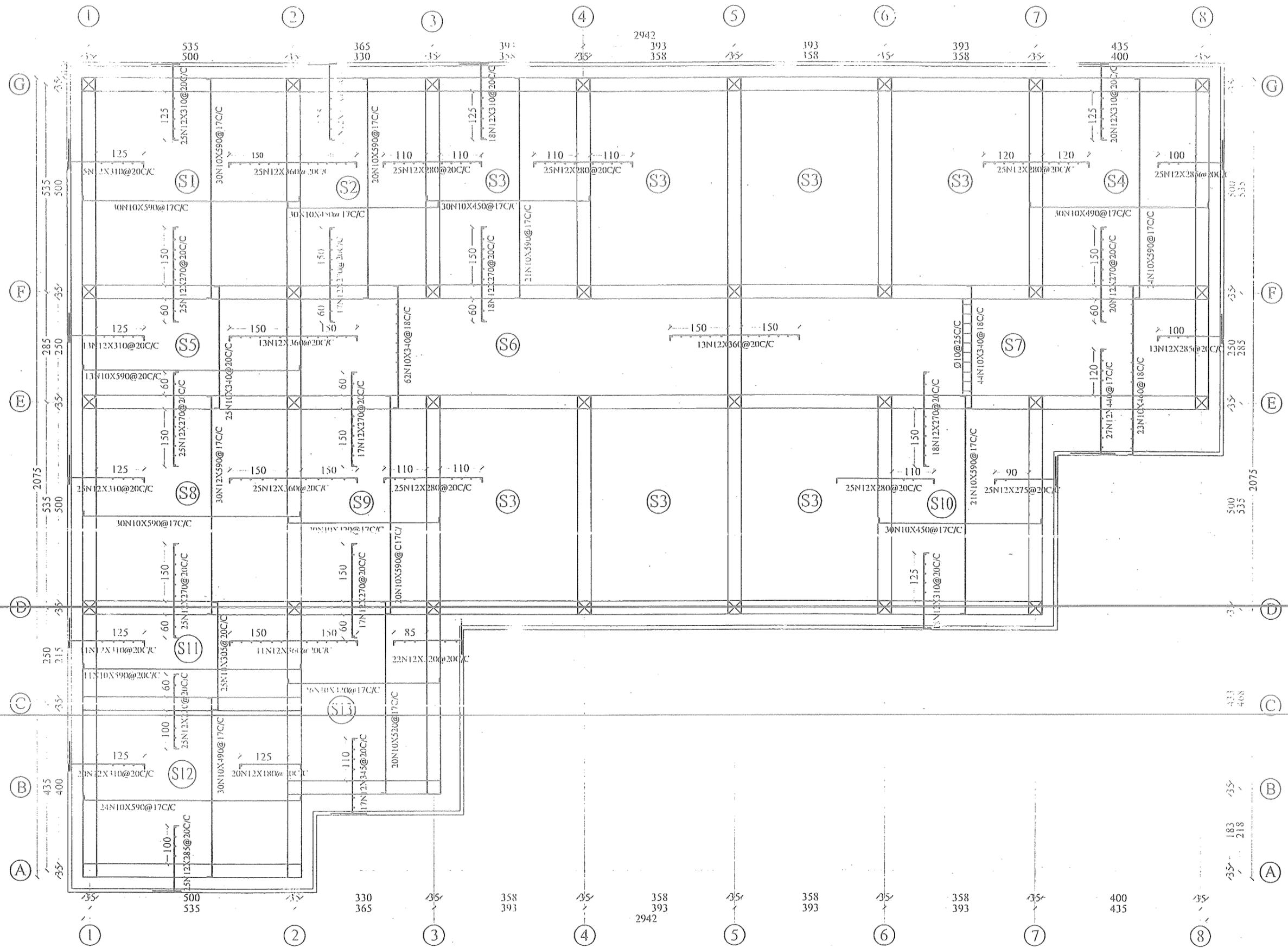
MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RCU/DESIGN: ENG. HEDAYA TULLAH (Hedaya)  
 CHECKED BY: ENG. MIRAHIM ANDAR  
 DATE APPROVED BY: ENG. AHMAD HAN MAQOL  
 APPROVED: Doc/Moc  
 SCALE: AS SHOWN (A3)  
 DATE & CODE #: 1-17-2015 (S-0254)

ENG. AHMAD MAMIN RAD  
 DRAWING TYPE: STRUCTURAL  
 SHEET No: 7/17

PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C. ROOF  
 DRAWING TITLE: GROUND FLOOR REINFORCEMENT AT LEVEL 3.00



GROUND FLOOR REINFORCEMENT PLAN AT LEVEL 3.00

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

REVISION: ENG HEDAYA IULLAH (ledaya)  
CHECKED BY: ENG ALRAHIM ANDAR  
TECH. APPROVAL BY: ENG ALMAMUN MAQOOL  
APPROVED: Doc/Moc: ENG AH MOMIN RAD  
SCALE: AS SHOWN (A/B)  
DATE & CODE #: 1/1/2015 (S-02547)

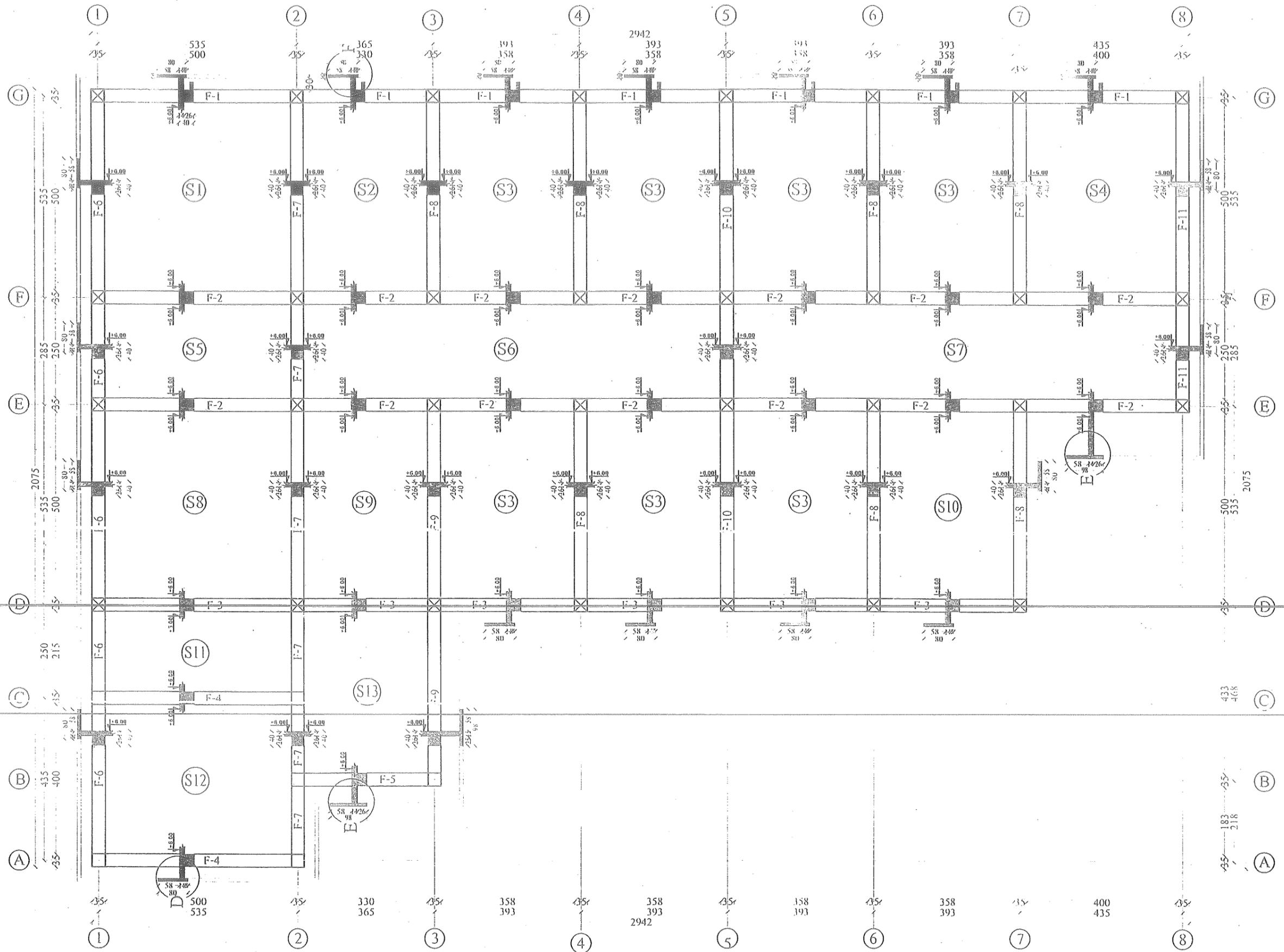
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SHEET No: 9/17

PROJECT NAME

12 CLASS ROOM SCHOOL BURN BRICK R.C.C. ROOF.

DRAWING TITLE

FIRST FLOOR REINFORCEMENT PLAN AT LEVEL +6.00



FIRST FLOOR SHUTTERING PLAN AT LEVEL 6.00

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RC/DESIGN: ENG HEDAYA LULLAH (Hedaya)  
 CHECKED BY: ENGM. RAHIM ANDAR  
 TECH. APPROVED BY: ENGM. MATIN MAQOL  
 APPROVED: DUC/MUC  
 SCALE: AS SHOWN (A4)  
 DATE & CODE #: 1/17/2015 (S.0753)

DRAWING TYPE: STRUCTURAL  
 SHEET No: 8/17

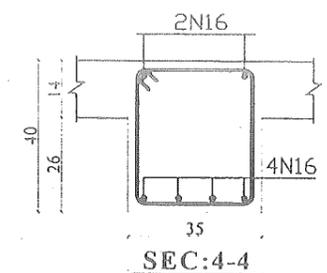
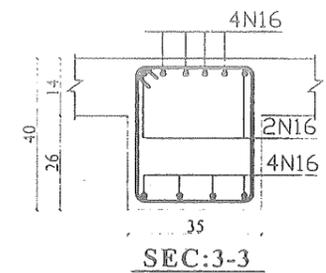
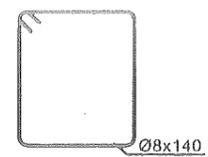
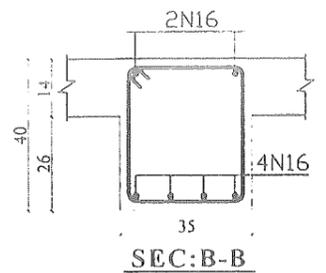
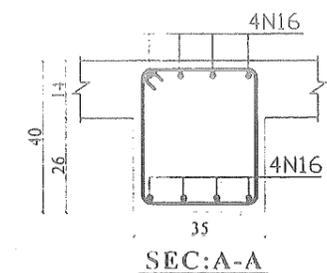
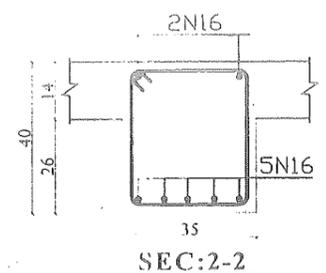
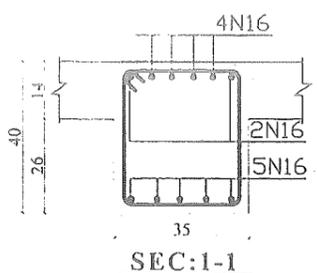
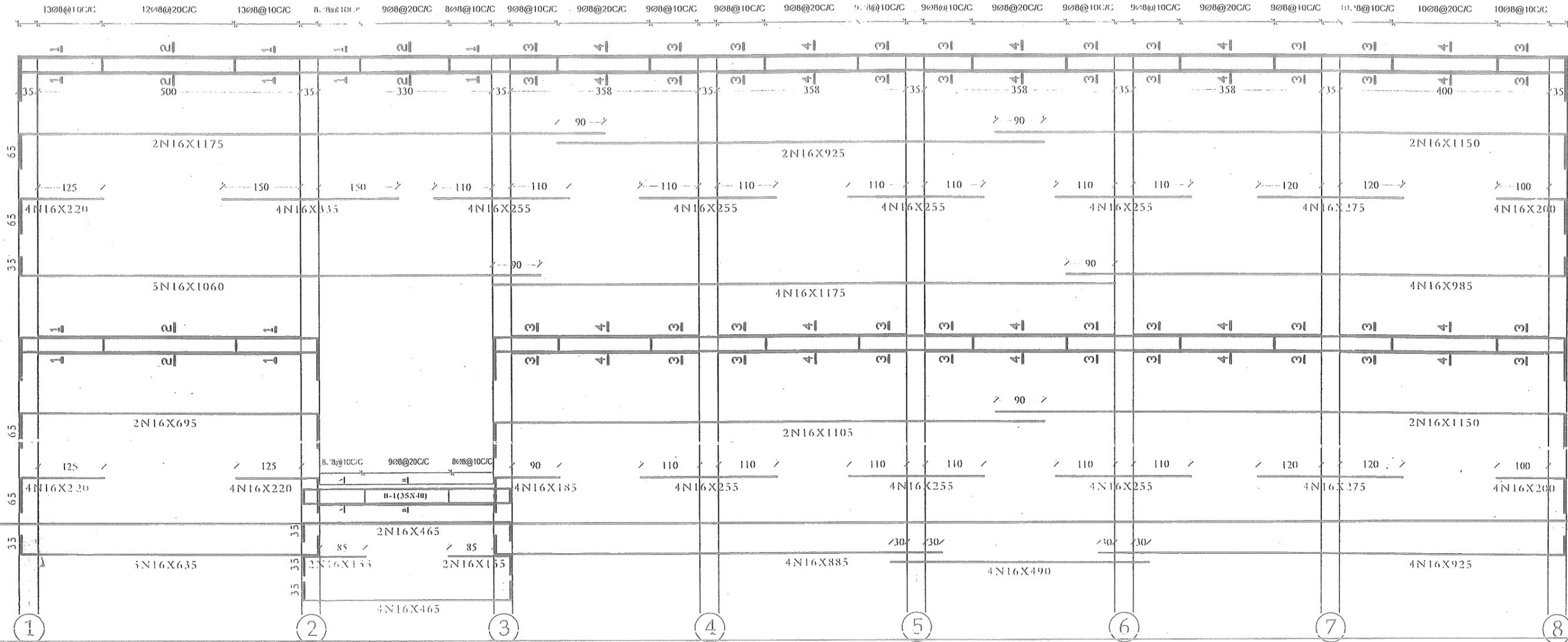
PROJECT NAME

12 CLASS ROOM SCHOOL BURN BRICK R.C.C ROOF.

DRAWING TITLE

FIRST FLOOR SHUTTERING PLAN AT LEVEL 6.00

F-1(35X40)  
N=1



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RCC/DESIGN: ENG HEDAYATULLAH (ledayan)  
CHECKED BY: ENG MRAHIM, ANDAR  
DATE & CODE #: 1-17-2013 (S-0254)

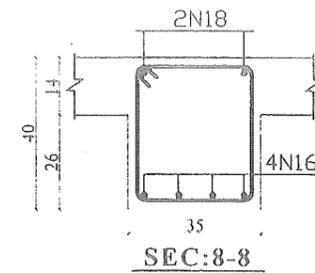
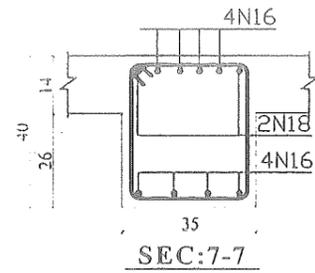
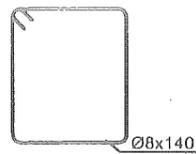
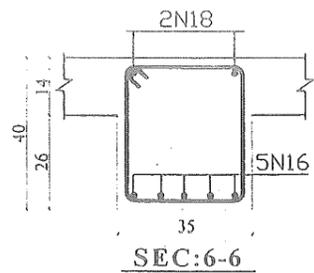
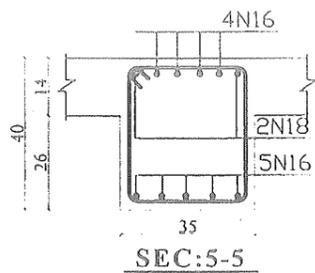
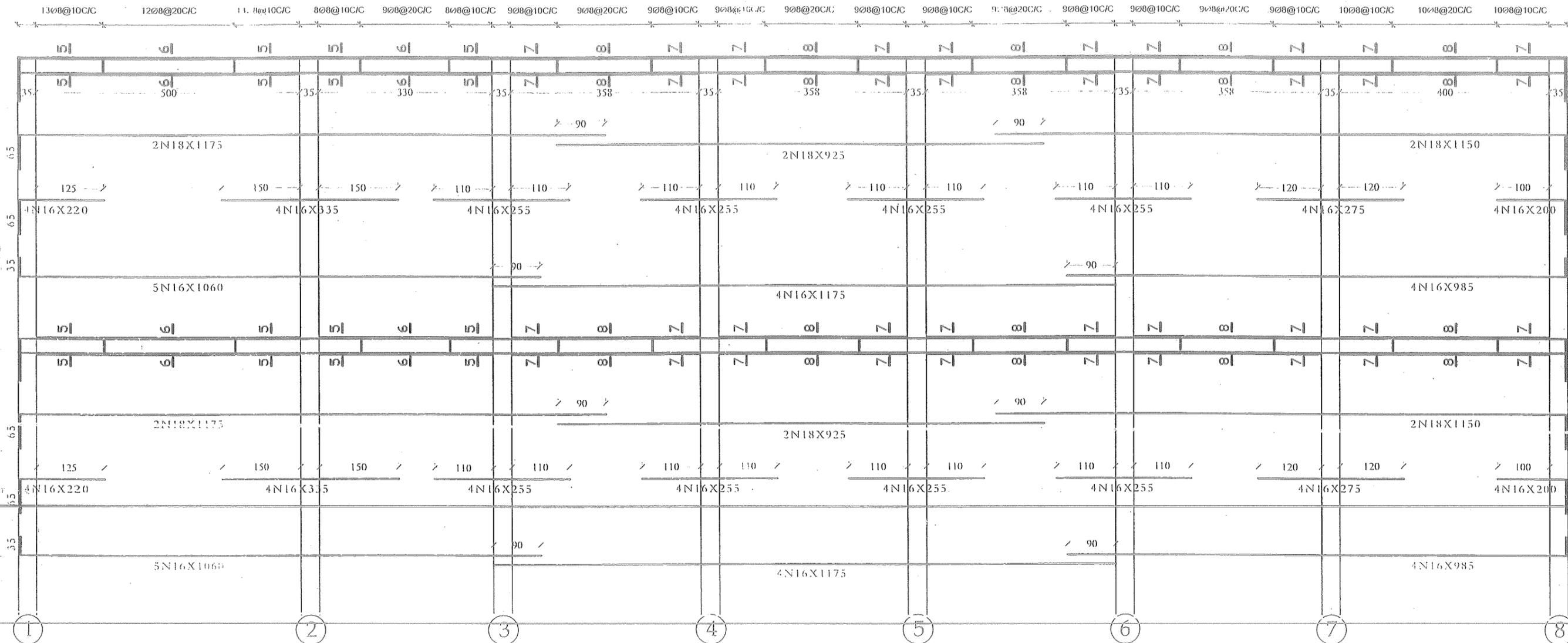
APPROVED: Doc/Moc  
SCALE: AS SHOWN (A1)

ENG AB MUMIN, RAD

DRAWING TYPE: STRUCTURAL  
SHEET No: 10/17

PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C ROOF.  
DRAWING TITLE: FRAME-1 DETAILING

F-2(35X40)  
N=2



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RCC DESIGN: ENG. HEDAYA TULLAI (Hobayat)  
CHECKED BY: ENGM. RAHIM ANDAR  
TECH. APPROVED BY: ENGM. MAJID MAQOOL

APPROVED: Eng/Moe  
SCALE: AS SHOWN (A3)  
DATE & CODE #

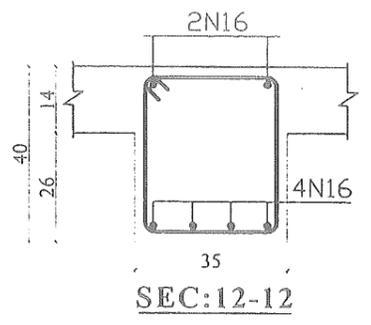
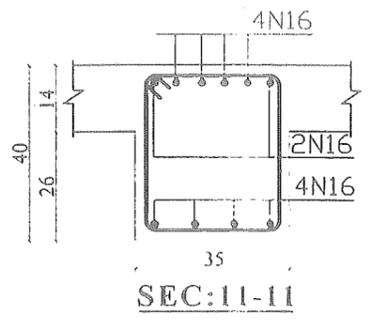
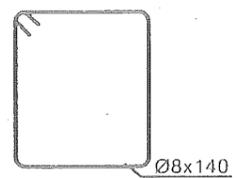
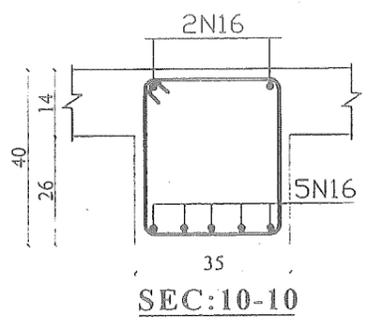
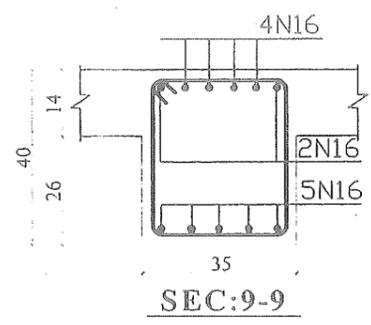
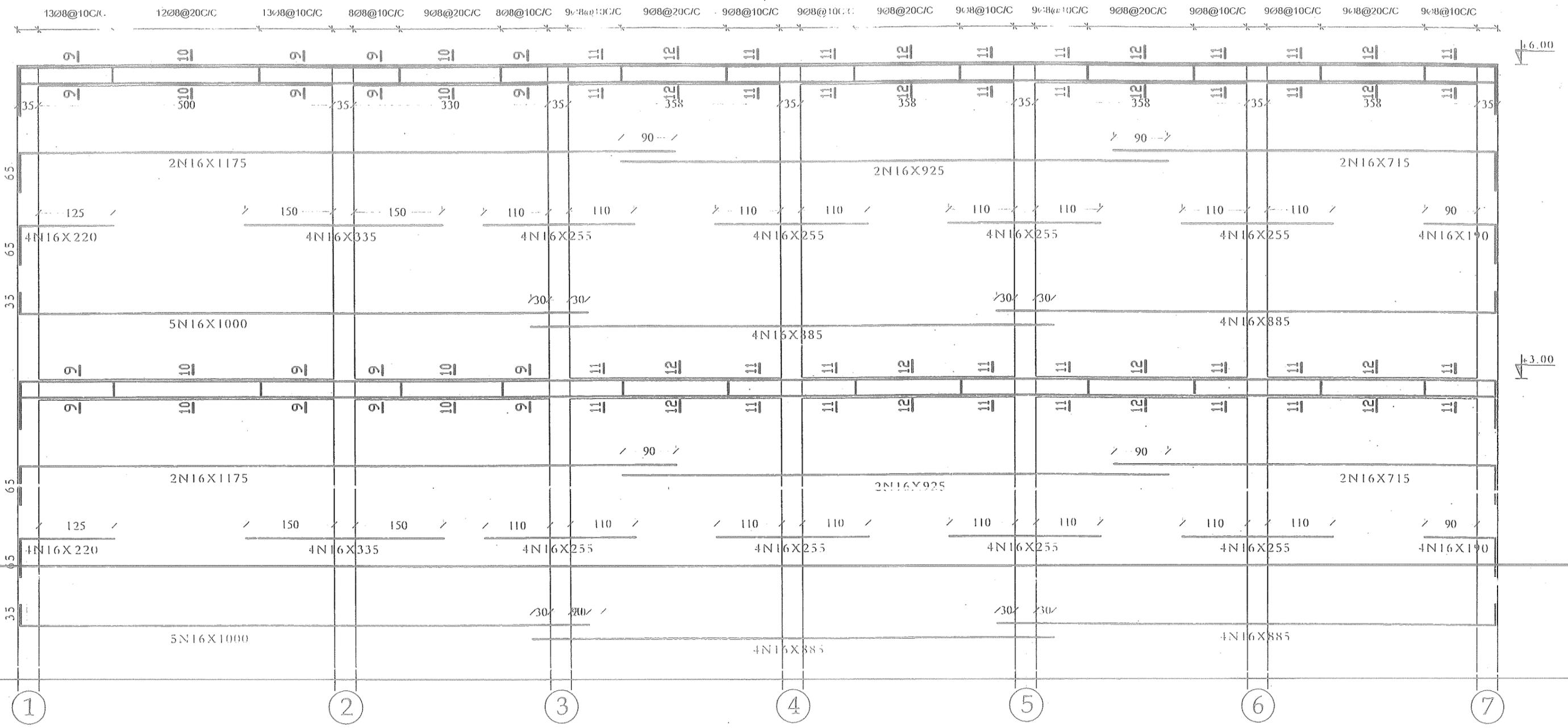
ENGM. AB. MOJIB RAO  
AS SHOWN (A3)  
A.F.F. 9015-N-0154

DRAWING TYPE: STRUCTURAL  
SHEET No: 11/17

PROJECT NAME  
DRAWING TITLE

12 CLASS ROOM SCHOOL, BURN BRICK R.C.C. ROOF.  
FRAME-2 DETAILING

F-3(35X40)  
N=1



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RC/C DESIGN: ENG. BILDAYATULLAH (belday) APPROVED: Doc/Msc: ENGAH MOMIN RAD  
CHECKED BY: ENGAH RAHIM ANDAR S.E.A.: AS SHOWN (A/B)  
TECH. APPROVED BY: ENGAH MAJID MAQDOL DATE & CODE #: 1-17-2015 (S-0254)

DRAWING TYPE: STRUCTURAL  
SHEET No: 12  
17

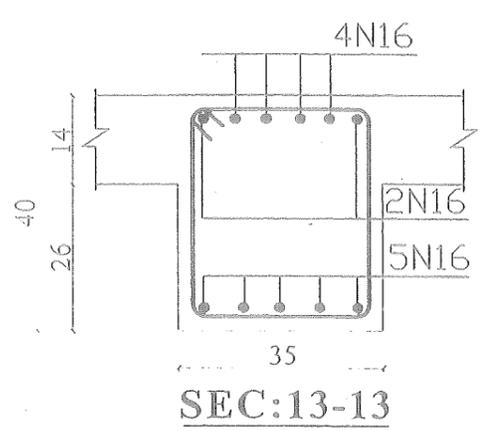
PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C ROOF.  
DRAWING TITLE: FRAME-3 DETAILING

F-4(35X40)  
N=1

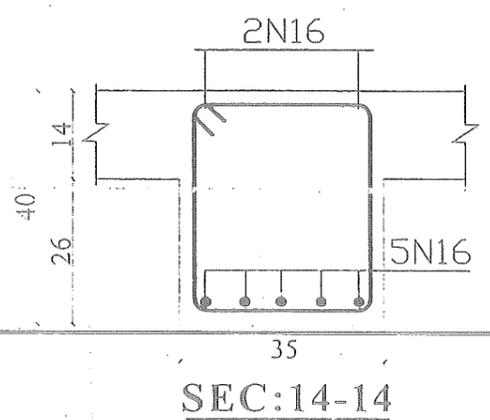
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N=1

13:8@10C/C    12:8@20C/C    13:Ø8@10C/C

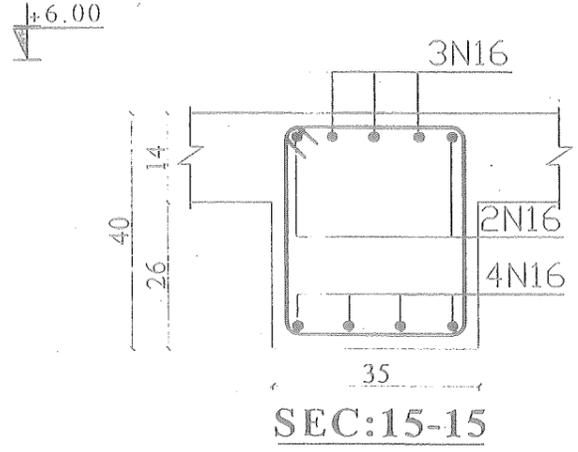
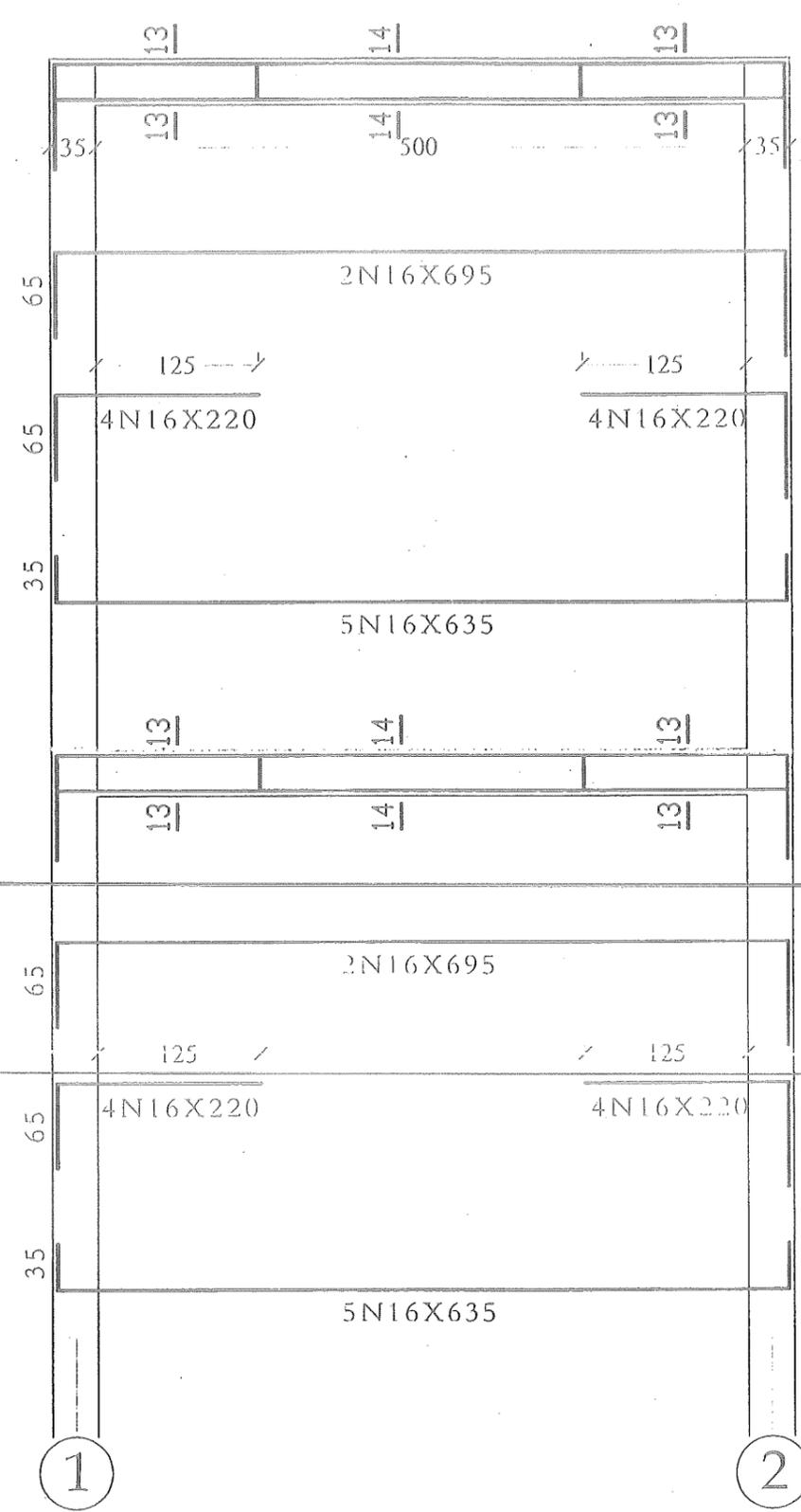
8:Ø8@10C/C    9:Ø8@20C/C    8:Ø8@10C/C



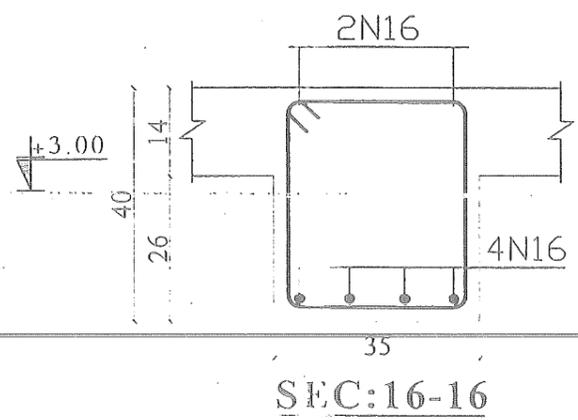
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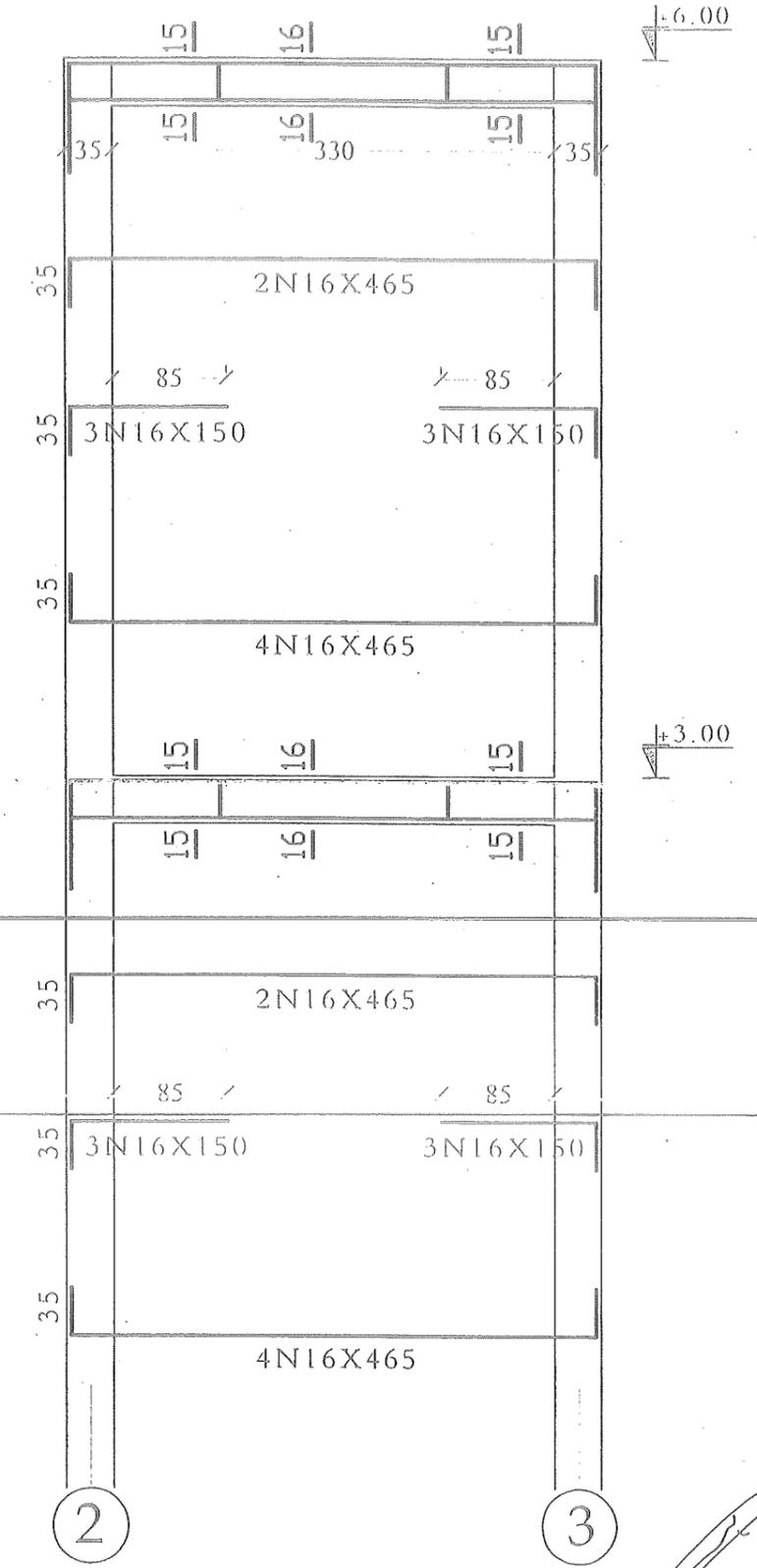
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SEC:15-15



SEC:16-16



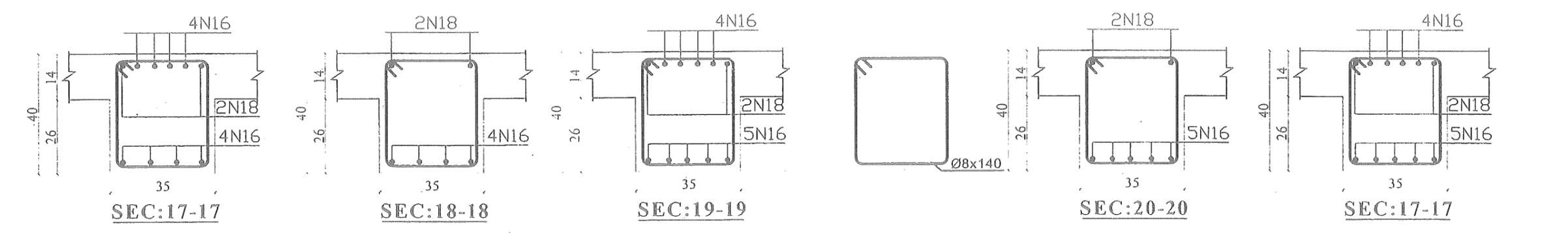
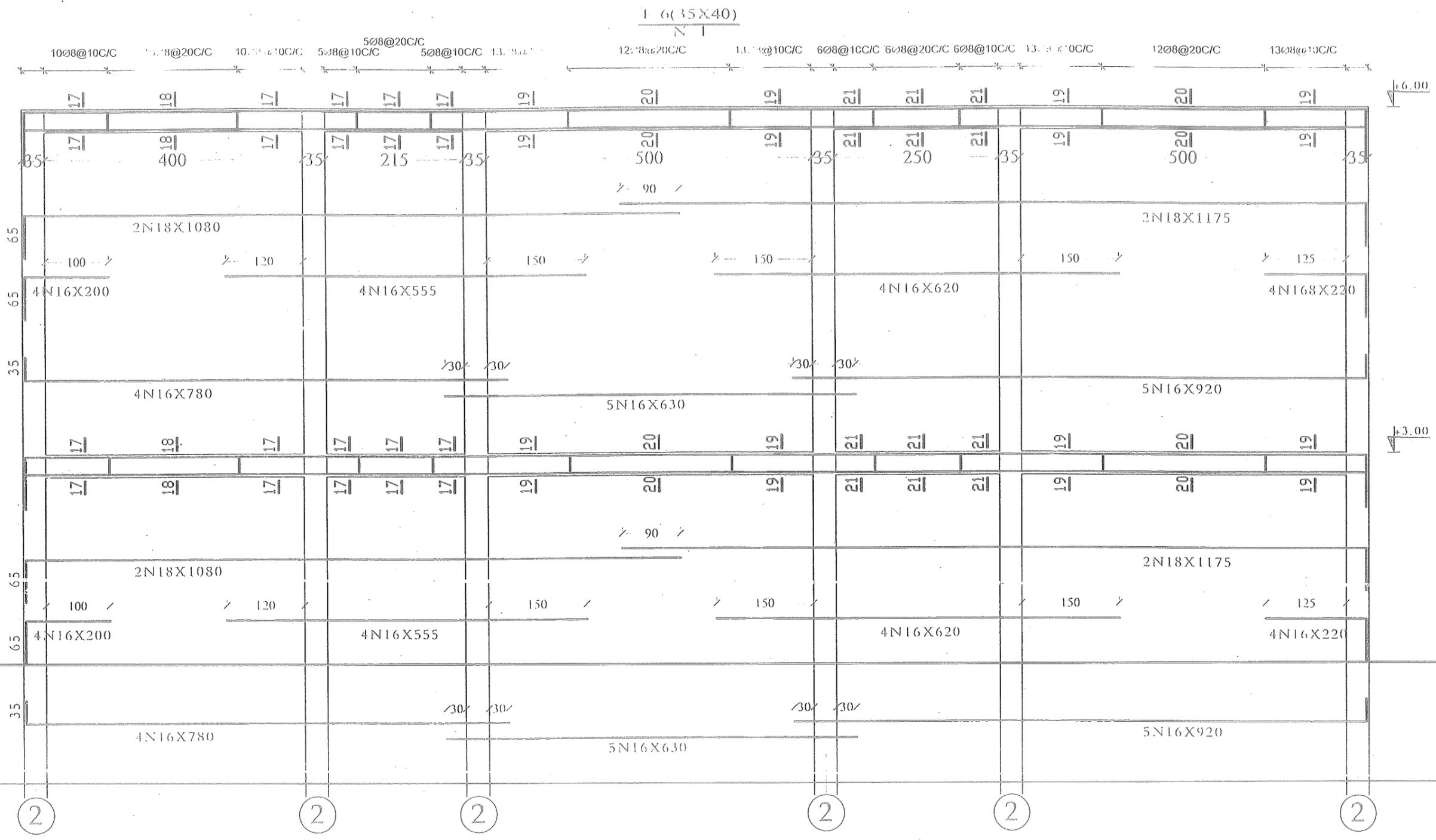
MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

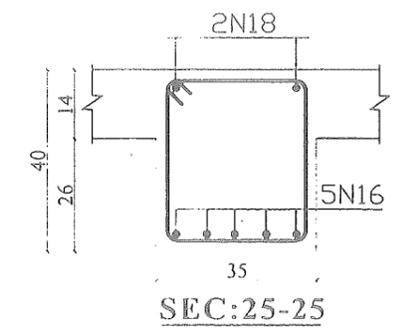
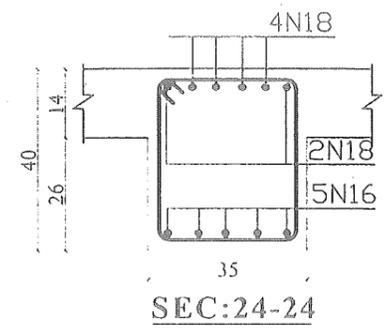
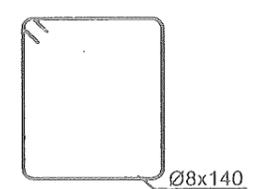
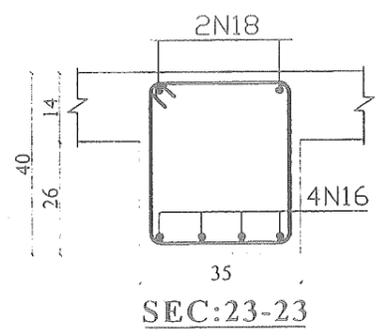
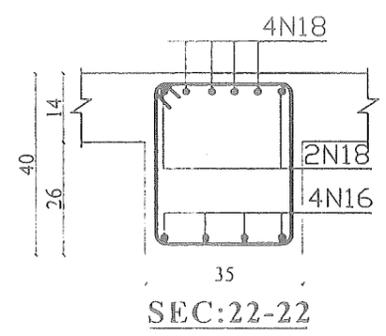
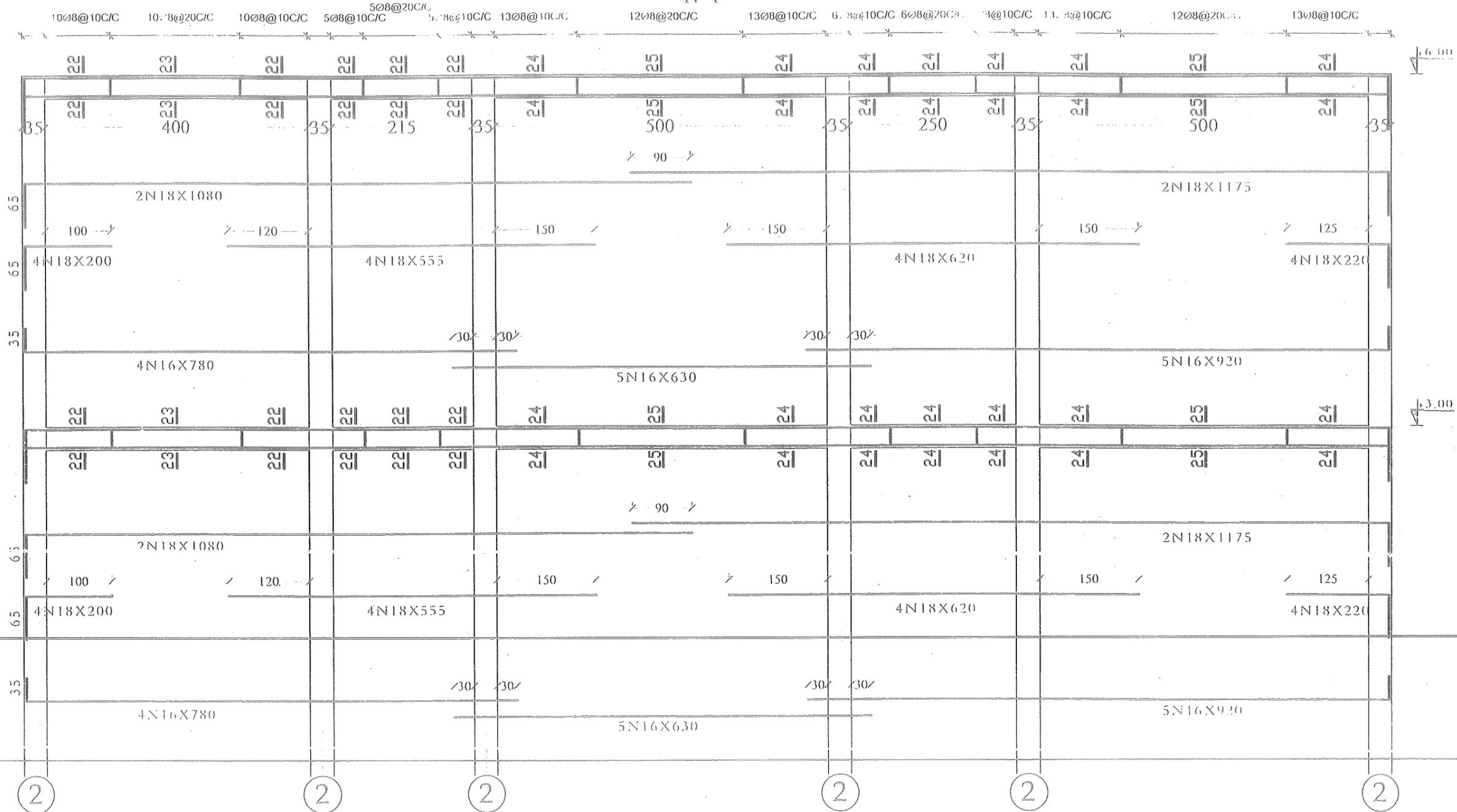
RCODESIGN: ENG. SAJJAD ATULLAH (Hidayat)    APPROVED: Doc/Moc    ENGLAB MOMIN (AD)  
CHECKED BY: ENG. W. CAHIM ANDAR    SCALE: AS SHOWN (A4)  
TECH. APPROVED BY: ENG. YUSUFI MAQOL    DATE & CODE: #    1.11.2013 (S. 025.1)

DRAWING TYPE: STRUCTURAL  
SHEET No: 13/17

PROJECT NAME: 12 CLASS ROOM SCHOOL, BURN BRICK R.C.C. ROOF.  
DRAWING TITLE: FRAME-4 & FRAME-5 DETAILING



F-7(35X40)  
N=1



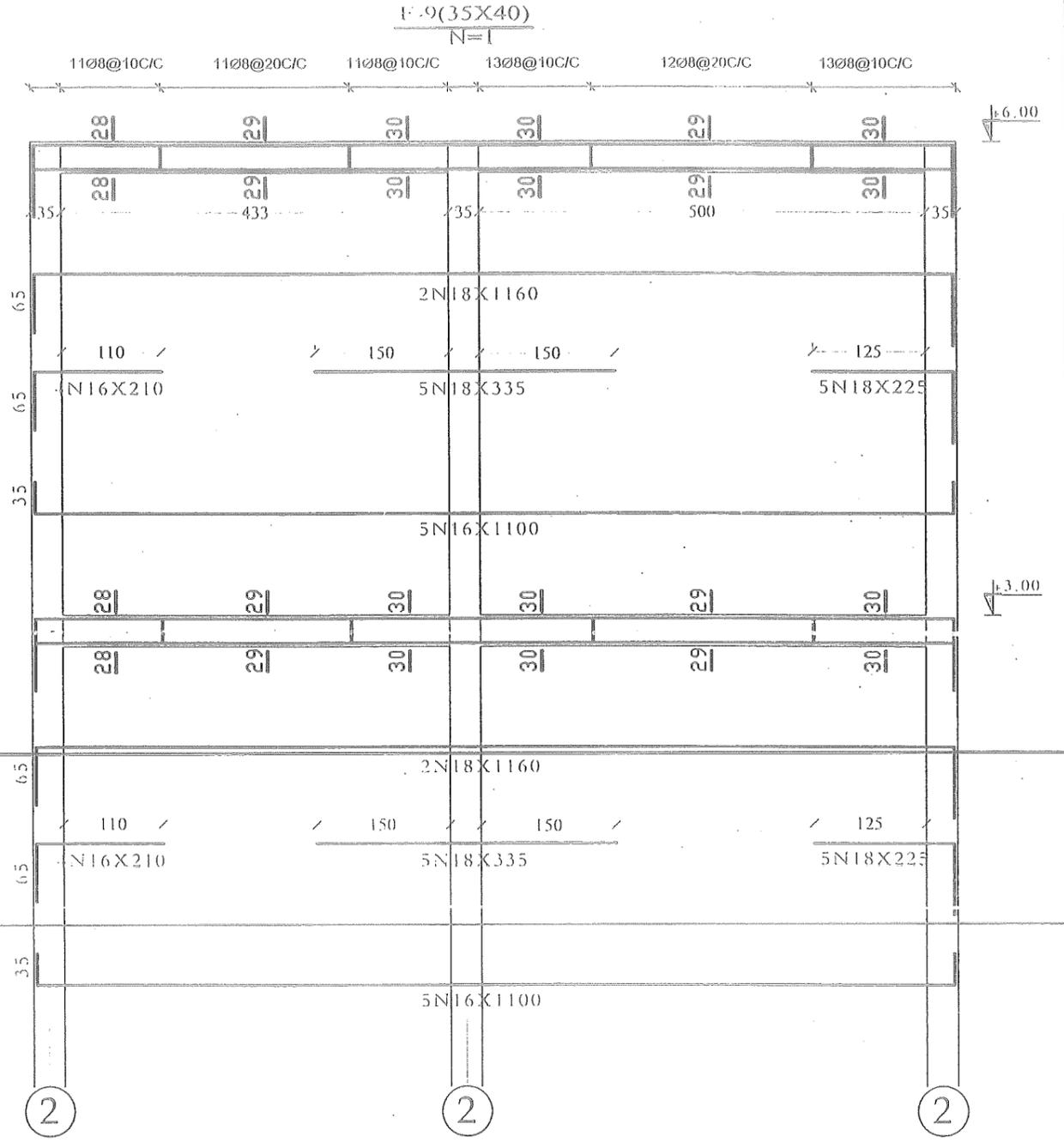
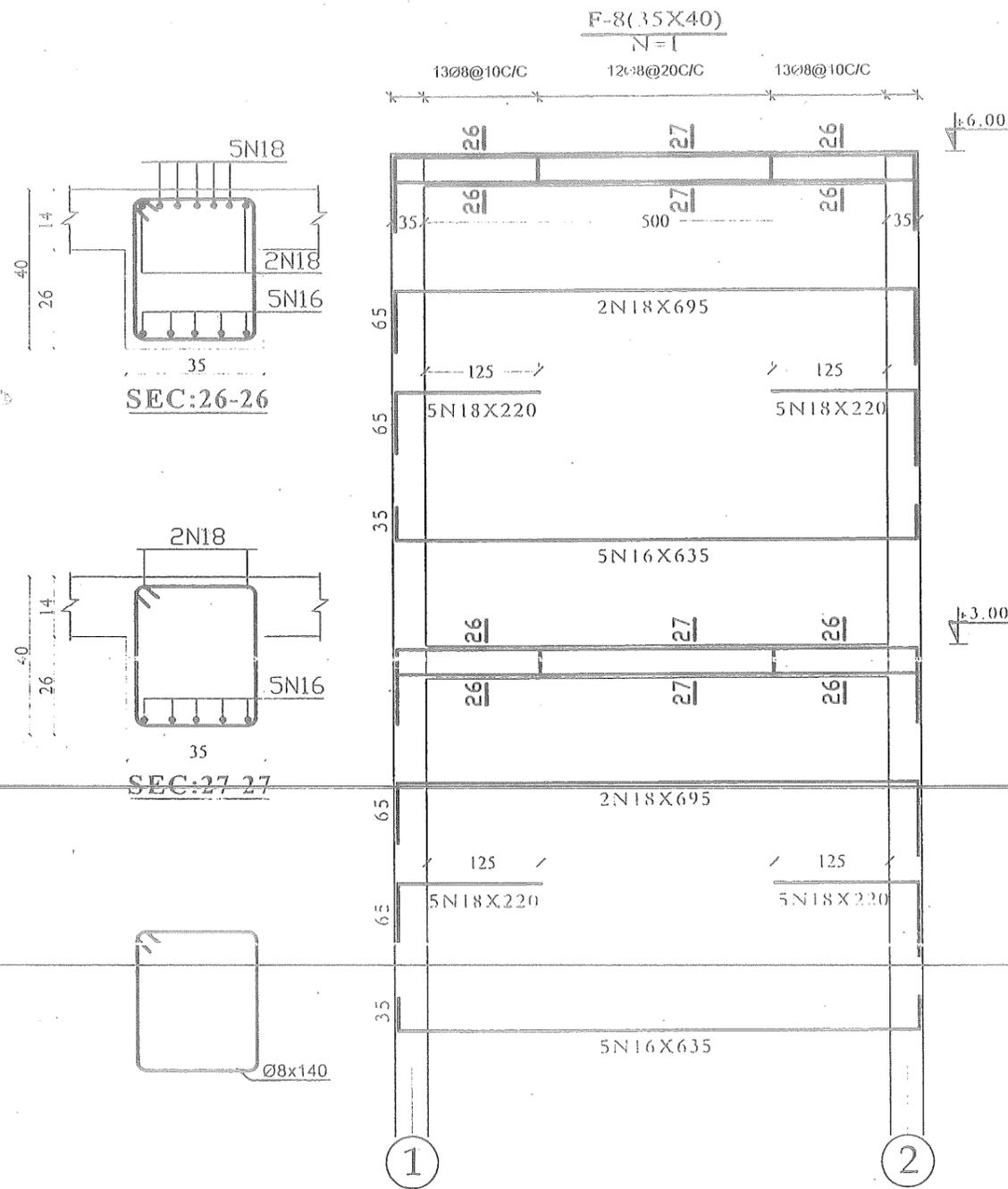
MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RCC/DESIGN	ENG. H. DAY A. UL. LAH (Hedayat)	APPROVED/Doc/Moc	ENG. AH. MOMIN RAD
CHECKED BY	ENG. M. RAHIM ANDAR	SCALE	AS SHOWN (A3)
TECH-APPROVED BY	ENG. AH. MAJID MAQOOL	DATE & CODE #	1.11.2015 (S.0254)

DRAWING TYPE: STRUCTURAL  
SHEET No: 15/17

PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C. ROOF.  
DRAWING TITLE: FRAME-7 DETAILING



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

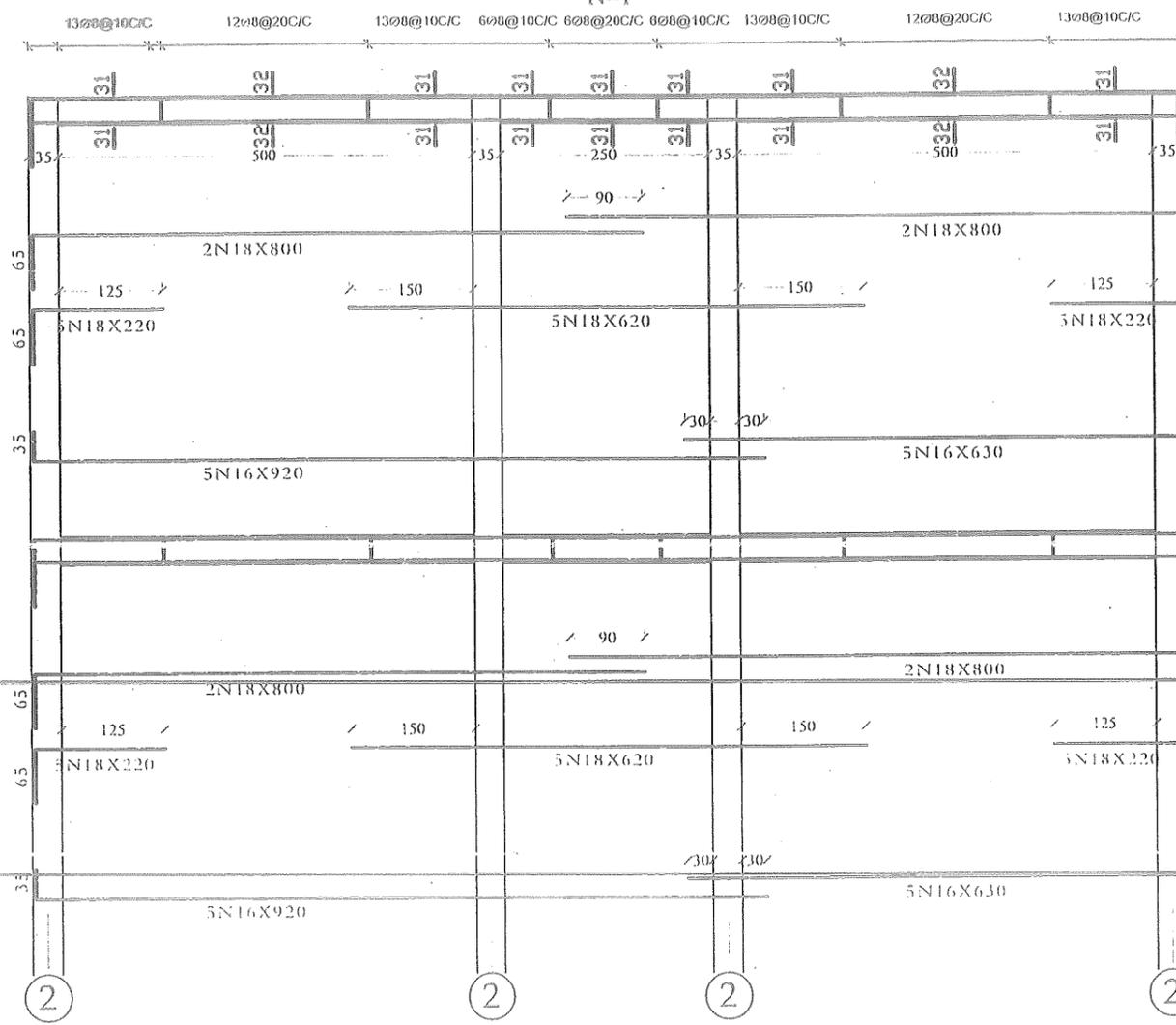
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RC/C DESIGN: ENG. HEDAYATULLAH (Hed) (a)  
CHECKED BY: ENG. M. RAHIM ANDAR  
TECH. APPROVED BY: ENG. AHMAD H. MAJID  
APPROVED: Doc/Msc: ENGLAHMOMIN RAID  
SCALE: AS SHOWN (A3)  
DATE & CODE: 7-17-2015 (S-0254)

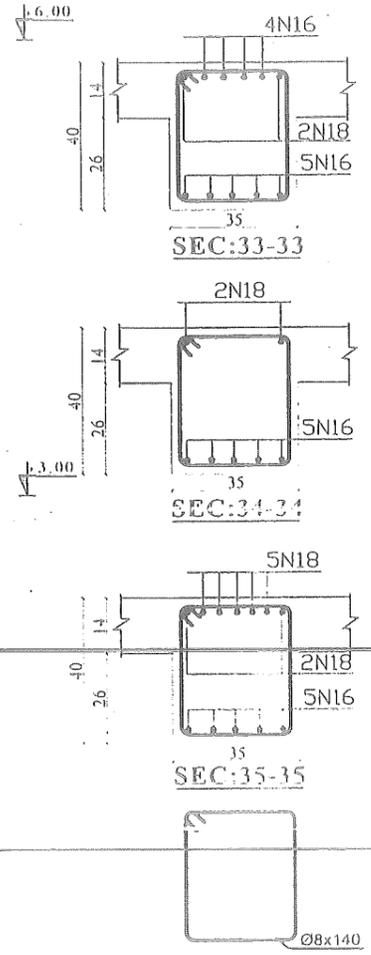
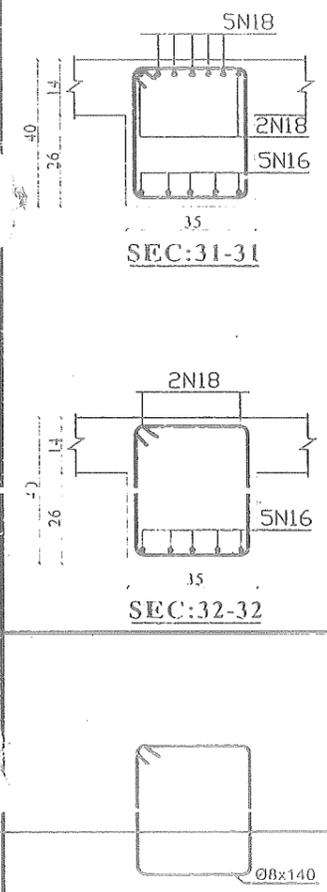
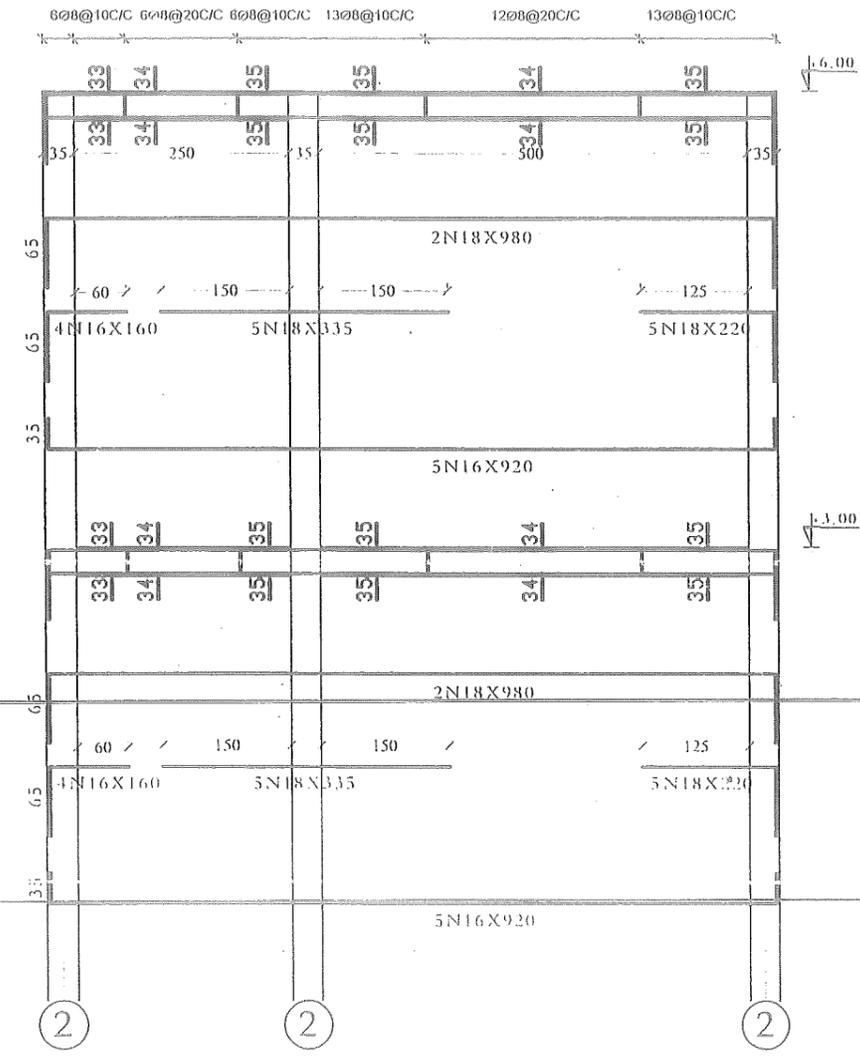
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SHEET No: 16/17

PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C. ROOF.  
DRAWING TITLE: FRAME-8 & FRAME-9 DETAILING

F-10(35X40)  
N=1



F-11(35X40)  
N=1



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

RCC/DESIGN	ENG. HEDAYA TULLAH (Hedaya)	APPROVED: Dae Muc	ENGLAB. MOMIN, RAD
CHECKED BY	ENG. M. RAHM. ANDAR	SCALE	AS SHOWN (A)
TECH. APPROVED BY	ENGLAB. MAJID MAQOL	DATE & CODE #	1-17-2015 (S-0254)

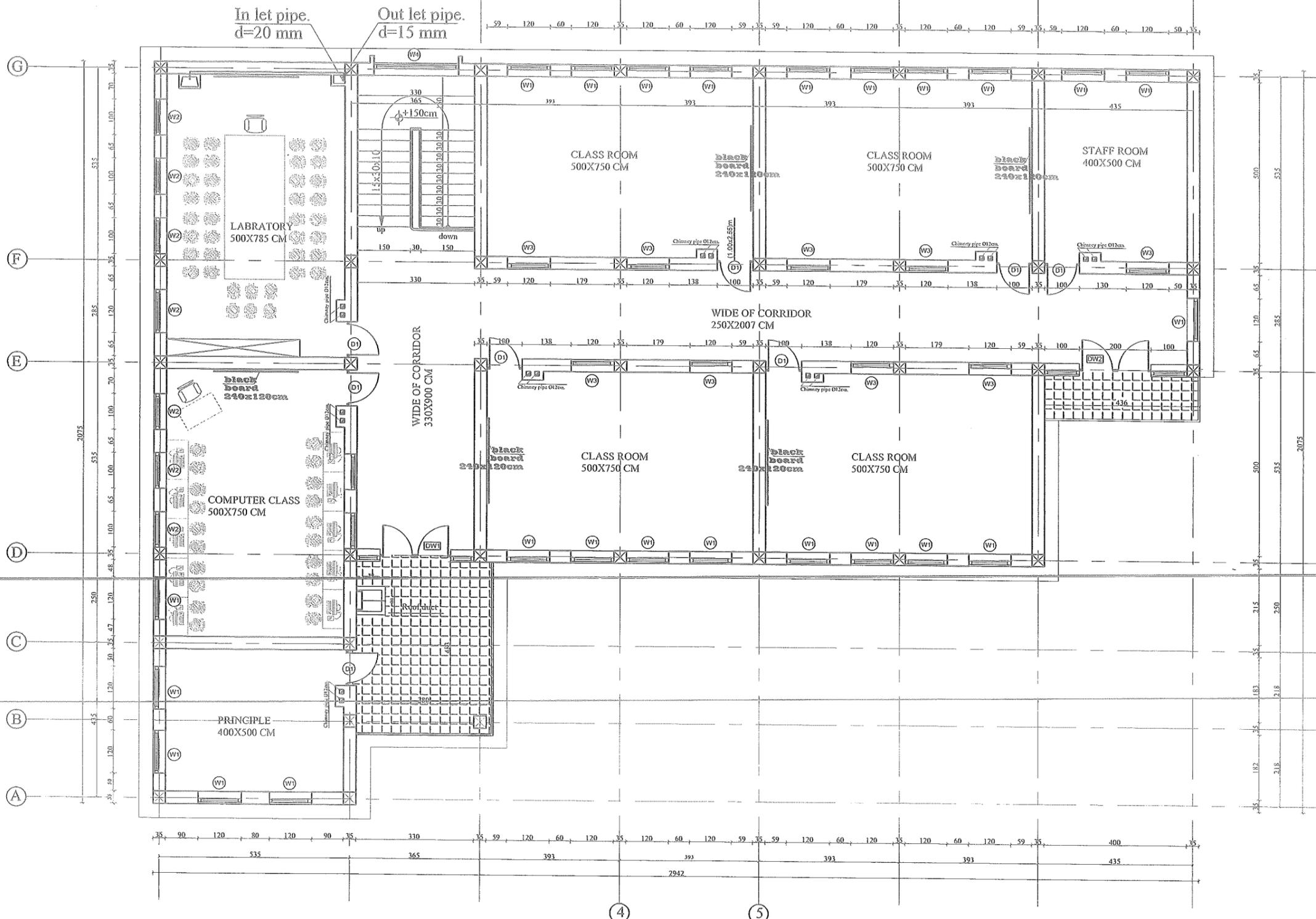
DRAWING TYPE: STRUCTURAL  
SHEET No: 17/17

PROJECT NAME: 12 CLASS ROOM SCHOOL BURN BRICK R.C.C. ROOF.  
DRAWING TITLE: FRAME-10 & FRAME 11 DETAILING

*WATER SUPPLY OF 10+2 CLASS ROOM  
TYPE 2*

---

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WATER SUPPLY FOR FIRST FLOOR PLAN

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

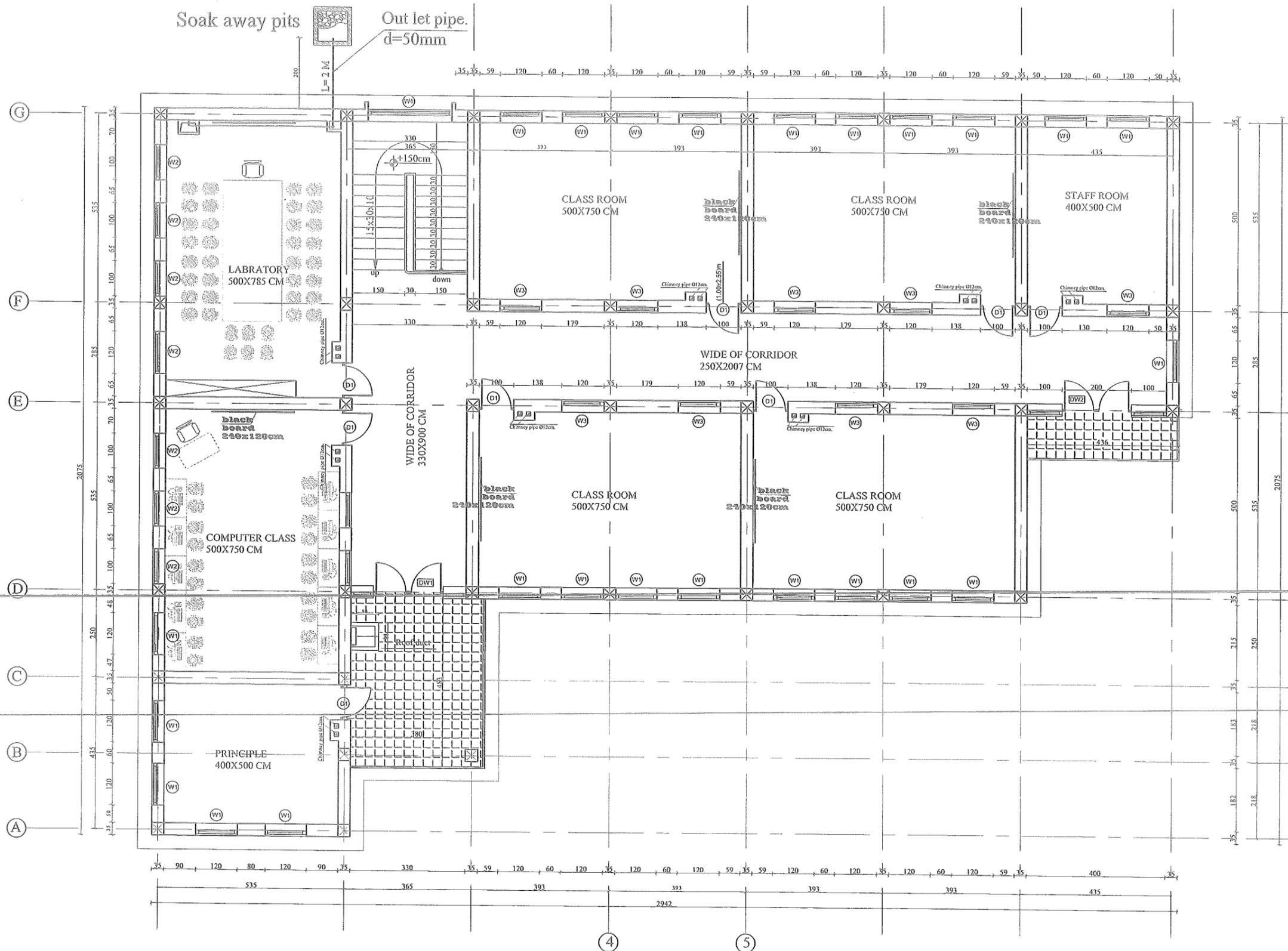
WATER SUPPLY / DESIGN	ENG. HUMA SADAT	APPROVED: Doc/Moc	ENG. AB. MOMIN RAAD	DRAWING TYPE	WATER SUPPLY
CHECKED BY	ENG. M. RAHIM	SCALE	AS SHOWN IN A3	CODE NO	1 5
TECH. APPROVED BY	ENG. AB. MATIN MAQOOL	Date	15 / 01 / 2015	5-0-25A	

PROJECT NAME

PROJECT TYPE & DRAWING TITLE

10+2 CLASS ROOM SCHOOL WITH  
LABORATORY AND COMPUTER LAB.  
Plan of Water Supply.

E



CANALIZATION FOR FIRST FLOOR PLAN

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

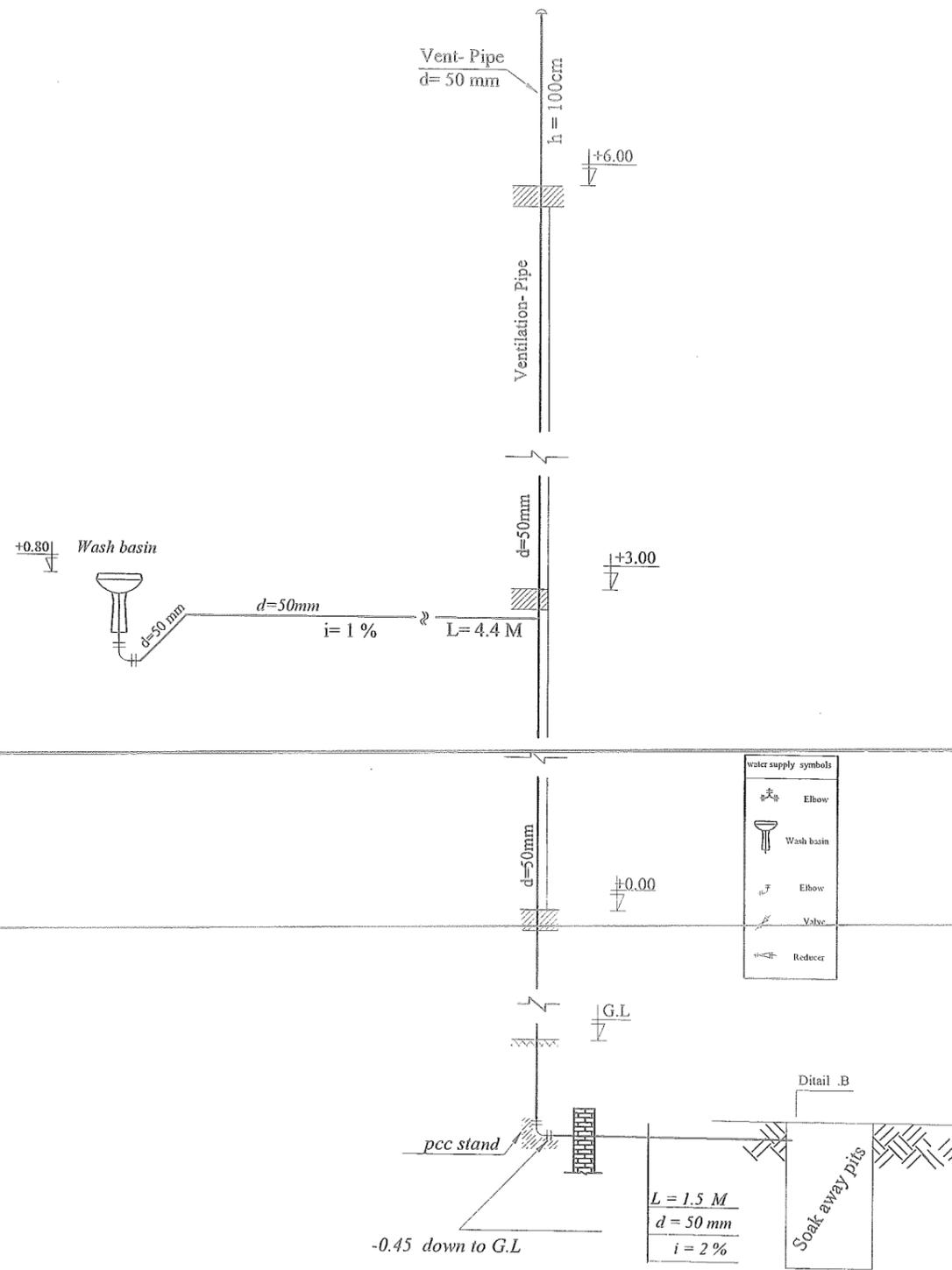
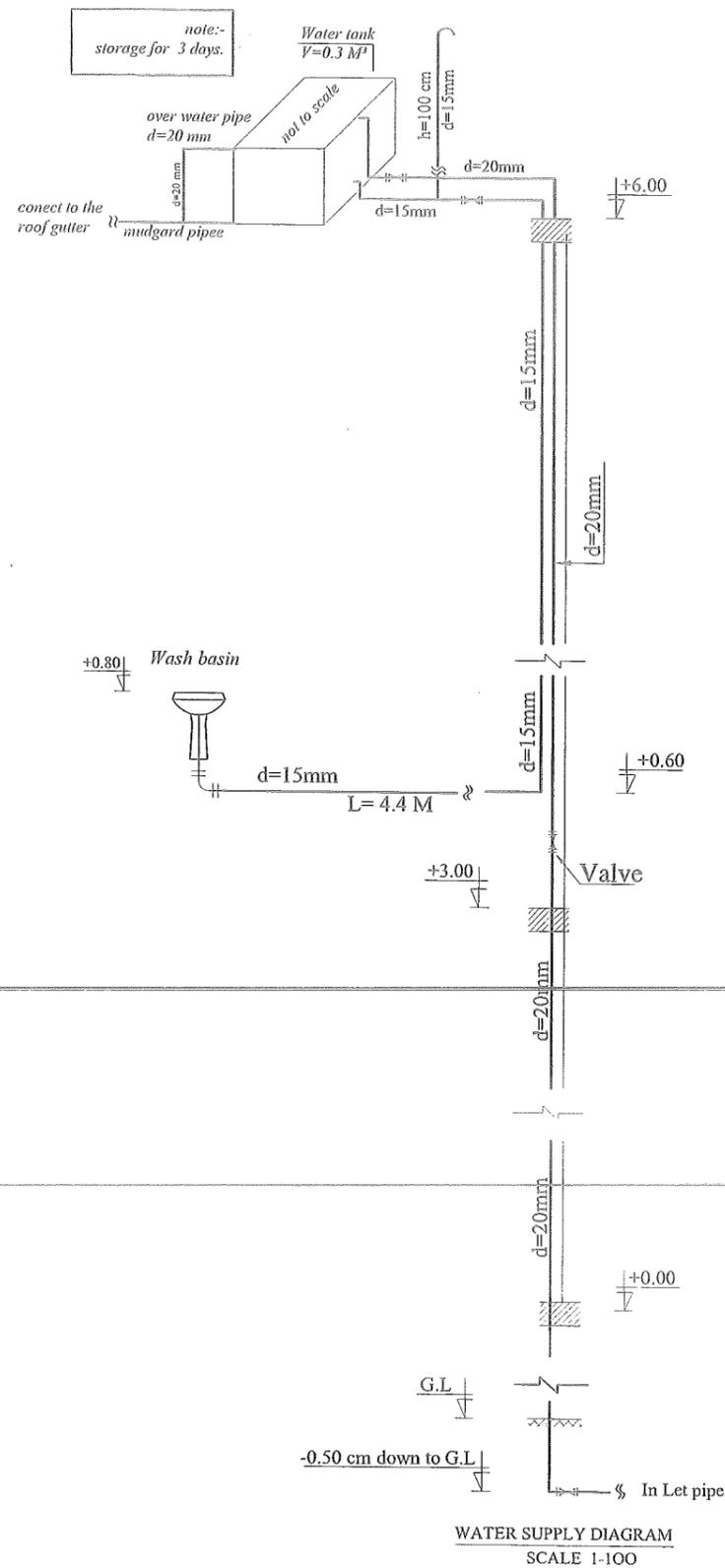
WATER SUPPLY / DESIGN	ENG. HUMA SADAT	APPROVED: Doc/Moe	ENG. AB. MOMIN RAAD	DRAWING TYPE	WATER SUPPLY
CHECKED BY	ENG. M. RAHIM	SCALE	AS SHOWN IN A3	CODE NO S-O 254	2 5
TECH- APPROVED BY	ENG. AB. MATIN MAQOL	Date	15 / 01 / 2015		

PROJECT NAME

PROJECT TYPE & DRAWING TITLE

10+2 CLASS ROOM SCHOOL WITH  
LABORATORY AND COMPUTER LAB  
Plan of Canalization.

E



water supply symbols	
	Elbow
	Wash basin
	Elbow
	Valve
	Reducer

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

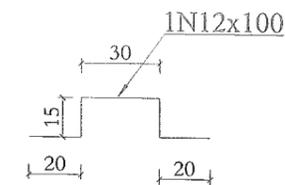
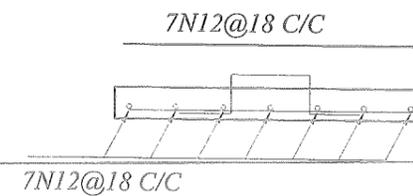
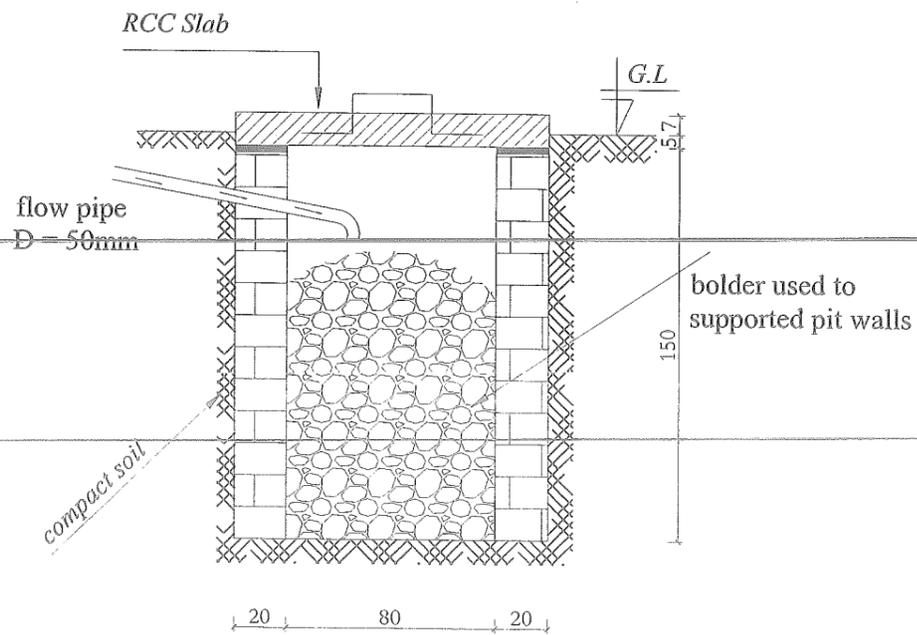
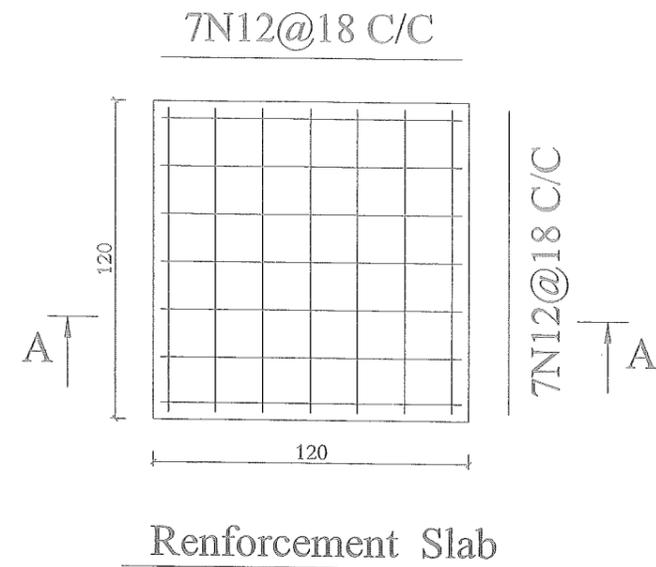
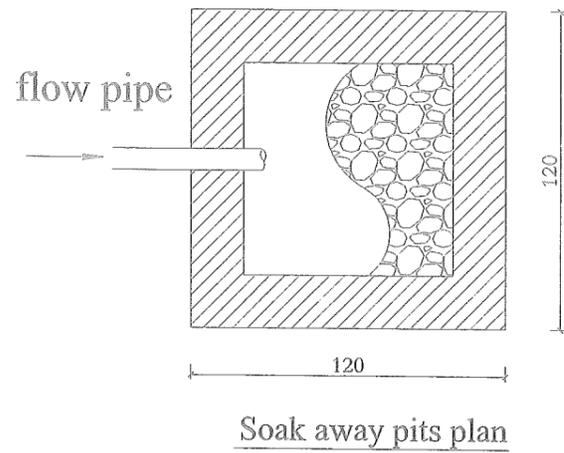
WATER SUPPLY DESIGN	ENG. HUMA SADAT	APPROVED: Docr/Moc	ENG. AB. MOMIN RAAD	DRAWING TYPE	WATER SUPPLY
CHECKED BY	ENG. M. RAHIM	SCALE	AS SHOWN IN A3	CODE NO	3 5
TECH- APPROVED BY	ENG. AB. MATIN MAQOL	Date	15 / 05 / 2015	S-0 254	

PROJECT NAME

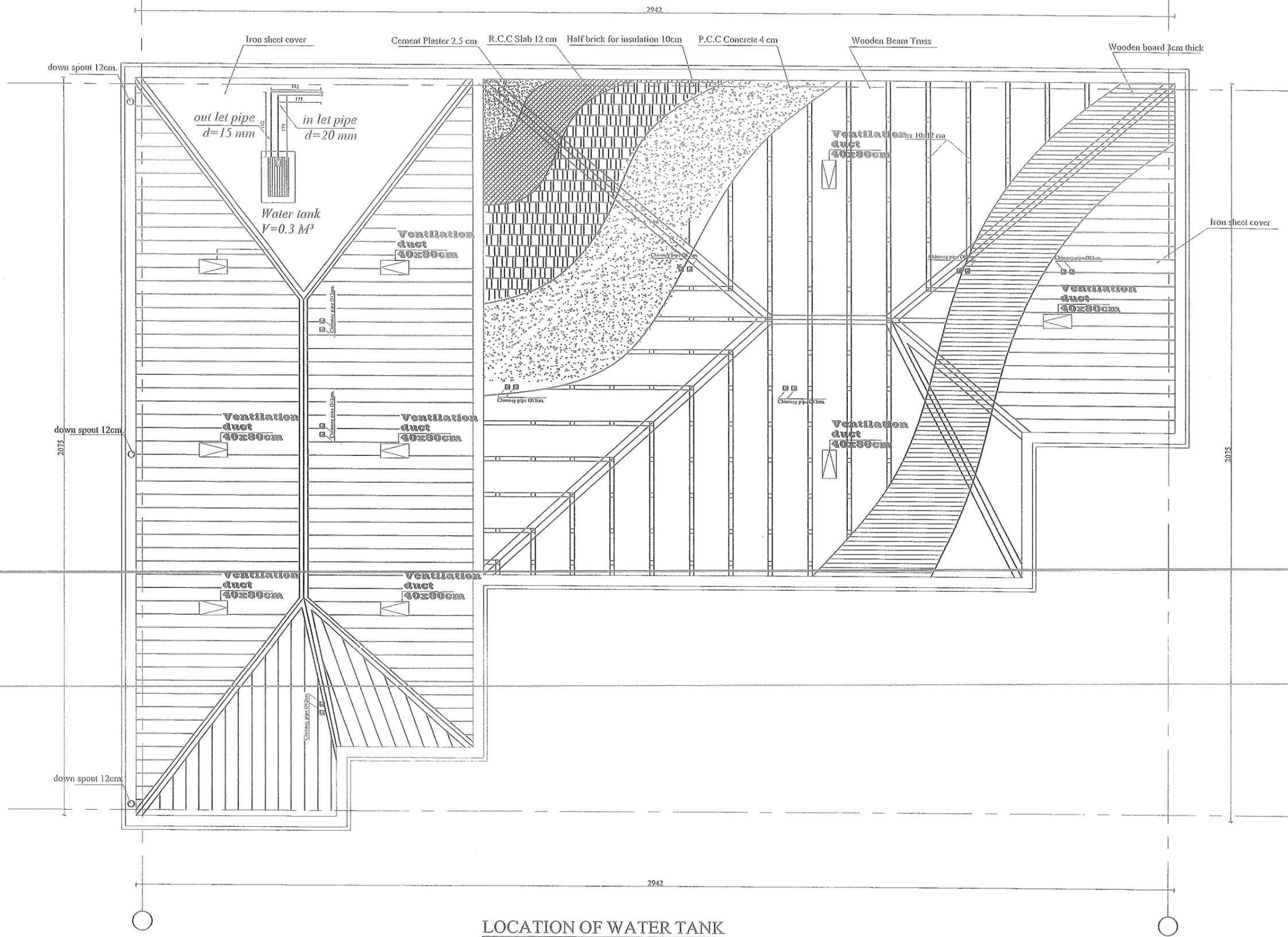
PROJECT TYPE&DRAWING TITLE

10+2 CLASS ROOM SCHOOL WITH  
LABORATORY AND COMPUTER LAP .  
Diagram of water supply and canalization.

E



Soak away pits detail  
Detail .B



LOCATION OF WATER TANK

MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

WATER SUPPLY / DESIGN	ENG. HUMA SADAT	APPROVED: Doc/Moc	ENG. AB. MOMIN RAAD	DRAWING TYPE	WATER SUPPLY
CHECKED BY	ENG. M. RAHIM	SCALE	AS SHOWN IN A3	CODE NO	5 5
TECH. APPROVED BY	ENG. AB. MATIN MAQOOL	Date	15 / 04 / 2015	S-0 25A	

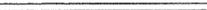
PROJECT NAME

PROJECT TYPE & DRAWING TITLE

10+2 CLASS ROOM SCHOOL WITH  
LABORATORY AND COMPUTER LAB.  
LOCATION OF WATER TANK

E

**SPECIFICATION OF ELECTRICAL EQUIPMENT FOR TWO FLOOR 6 CLASS**

NO.	DESCRIPTION	SIGNS	UNIT	PIECES	REMARKS
1	FLUORESCENT LIGHT FIXTURE 2x36W,50Hz,(130-260)V good quality		NO	56	
2	FLUORESCENT LIGHT FIXTURE 1x40W,50Hz,(130-260)V good quality		NO	19	
3	TWO POLE SWITCH UNDER PLASTER 10 AMP, 1PH good quality		NO	16	
4	TWO WAY SWITCHES 10AMP GOOD QUALITY.		NO	16	
5	ONE POLE SWITCHES 10AMP GOOD QUALITY.		NO	1	
6	SOCKET OUTLET SINGLE PHASE 16AMP.good quality		NO	62	
7	PANEL BOACB+RCBO good quality RD WITH 1X35AMP MAIN CB,2X16AMP CB+RCBO AND 8X20AMP		NO	1	
8	WIRE 1X2.5mm <sup>2</sup> for lighting,COPPER GOOD QUALITY		M	1511	
9	WIRE 1X4mm <sup>2</sup> for sockets.COPPER GOOD QUALITY		M	1142	
10	PVC CONDUIT 1 INCH GOOD QUALITY		M	772	
11	Cable1x25 mm <sup>2</sup> COPPER FOR GROUNDING good quality		M	18	
12	Cable1x35mm <sup>2</sup> COPPER FOR CONNECTION OF GROUNDING RODS.good quality		M	12	
13	GROUNDING ROD 3M LENGTH, Ø20MM(COPPER)good quality		NO	4	
14	CABLE 1(4x25mm <sup>2</sup> ) FOR MAIN LINE COPPER GOOD QUALITY		M	50	
15	PVC CONDUIT 3 INCH good quality		M	50	
16	CEILING PVC JOINT BOX SMALL SIZE FOR LIGHTS .good quality		NO	75	
17	MAIN DESTRUCTION PANEL WITH ONE PHASE1*70 AMP MAIN CB,1 PHASE 2X35 AMP CB AND 1X40 AMP CB. good quality		NO	1	
18	PANEL BOARD WITH 1X40AMP MAIN CB,2X16AMP CB+RCBO AND 10X20AMP CB+RCBO good quality		NO	1	
19	CABLE 1(3x10) mm <sup>2</sup> COPPER FROM(MDP TO PBS)COPPER GOOD QUALITY.		M	8	

**NOTES**

- 1-Hight of sockets 450mm from floor.
- 2-Hight of switches 1350mm from floor.
- 3-Hight of panel boards 1800mm the highest.
- 4-All wire 1x2.5 and 1x4mm<sup>2</sup> should install in conduit pipe 20mm diameters.
- 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-Connect Phase wire in CB and Neutral wire in RCBO.
- 8-Use three color wire brown for phase,blue for neutral&green with yellow stripe for grounding.
- 9-PB Penal Board.
- 10-CB Circuit Breaker.
- 11-All connection must have plastic joint clapper ( from one bulb to other.
- 12-Install ceiling PVC joint box for 2x36W&1x40W bulb ( small size which are not shown from down) bulb should cover them.
- 13-R.C.B.O Residual Circuit Breaker Over Current.
- 14-Amp =Amperes
- 15-W= Watt.
- 16-Hz =Hertz.
- 17-Resistant of grounding should be not more then 25 Ohm per NEC code.
- 18-All wire in Panel board must have mark 1,2,3..Which show the Circuit numbers.
- 19-All wire in panel boards must be in plastic cover.

RCBO(Residual Circuit Breaker Over Current




MINISTRY OF EDUCATION  
DEPARTMENT OF CONTRACTION



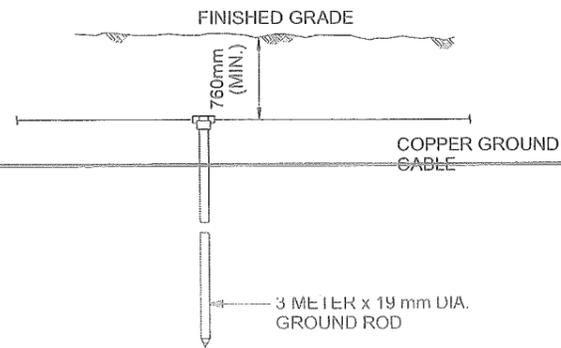
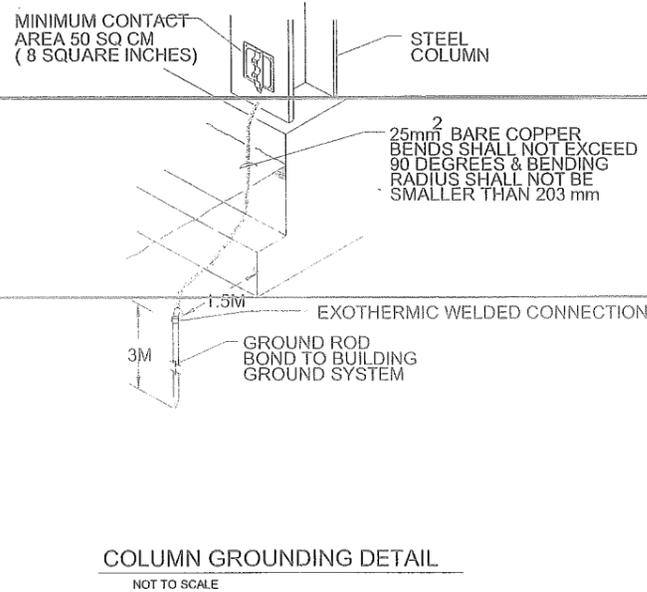
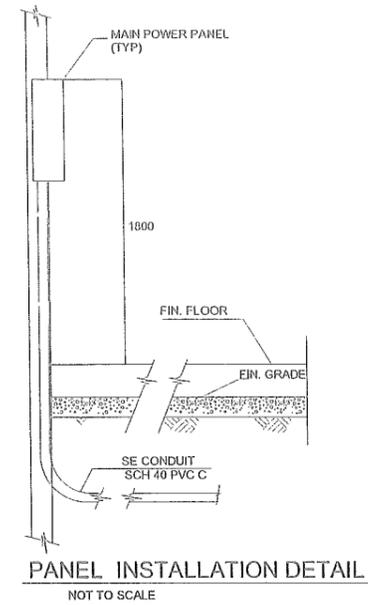
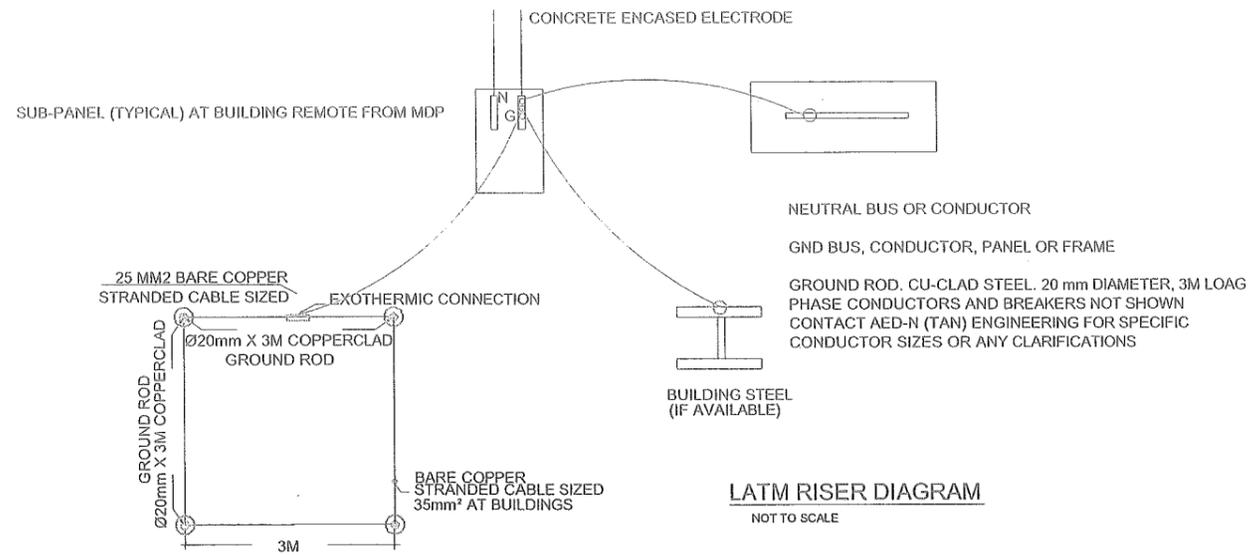
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ELECTRICAL DESIGN	ENG PEROZ'SADID	APPROVED-Date/No	ENG AB MOMEN RAD	TYPE	ELECTRICAL
CHECKED BY	ARCH SAID RASOOL	SCALE	AS SHOWN (AS)	CODE NO	
TECH-APPROVED BY	ENG AB MATIN MAOOL	DATE	2015-07-7	SHEET No	1/5

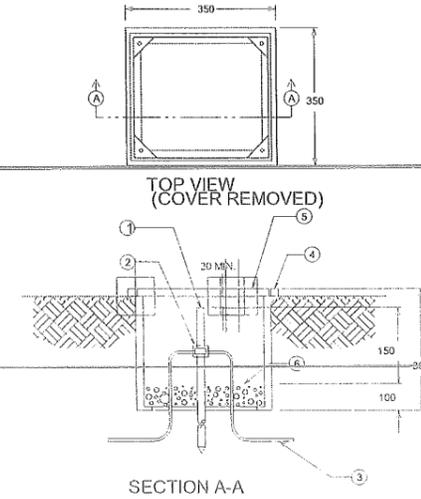
PROJECT NAME

DRAWING TITLE

12Class School Iron Sheet Roof.  
LEGEND AND NOTES



- NOTES:
1. CONDUCTOR SIZE SHALL BE AS INDICATED ON PLANS.
  2. EXOTHERMIC WELDS SHALL BE AS RECOMMENDED BY MANUFACTURER FOR THE SIZE OF CONNECTION AND MATERIAL INVOLVED. SEE DETAIL 5 ON SHEET SE-7.



- MATERIAL LIST
- |                                    |                                              |
|------------------------------------|----------------------------------------------|
| ① GROUND ROD                       | ④ POLYMER CONCRETE FIBERGLASS REINFORCED BOX |
| ② EXOTHERMIC WELD                  | ⑤ COVER FOR ABOVE BOX                        |
| ③ GROUNDING CONDUCTOR 70mm² COPPER | ⑥ GRAVEL OR CRUSHED STONE                    |

*(Signature)*



MINISTRY OF EDUCATION  
DEPARTMENT OF CONTRACTION



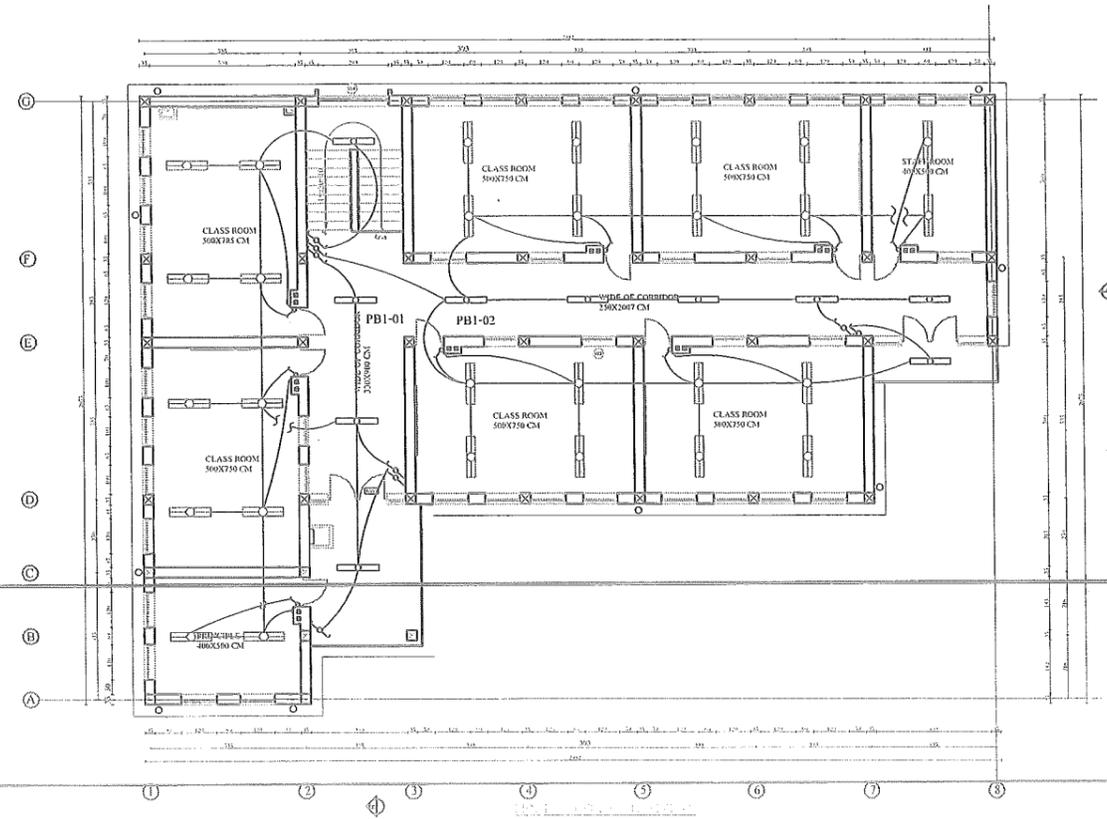
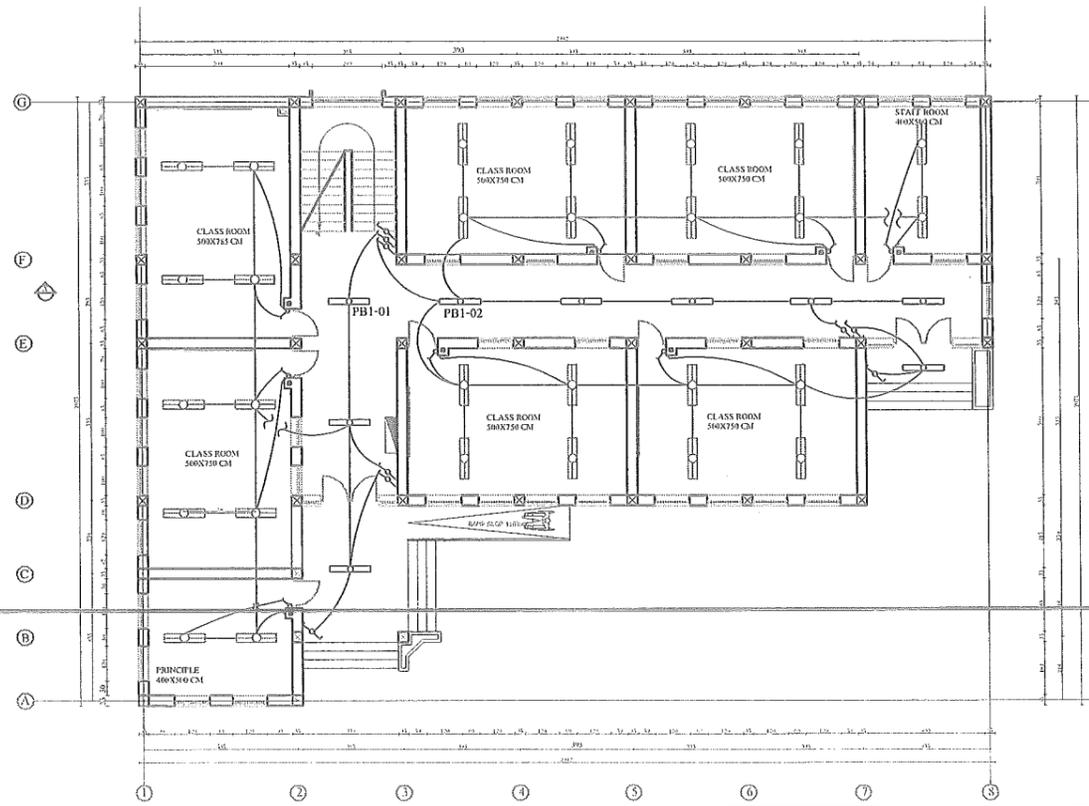
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ELECTRICAL DESIGN	ENG FERDZ'SADID	APPROVED-Date	ENG. AB MUMEN RAO	TYPE	ELECTRICAL
CHECKED BY	ARCH SAID RASOOL	SCALE	AS SHOWN (A3)	CODE NO	50254
TECH. APPROVED BY	ENG. AB MATIN MAQOL	DATE	2015-07-7	SHEET No	2/5

PROJECT NAME

DRAWING TITLE

12Class School Iron Sheet Roof.  
GROUNDING



*(Handwritten signature)*



MINISTRY OF EDUCATION  
DEPARTMENT OF CONTRACTION



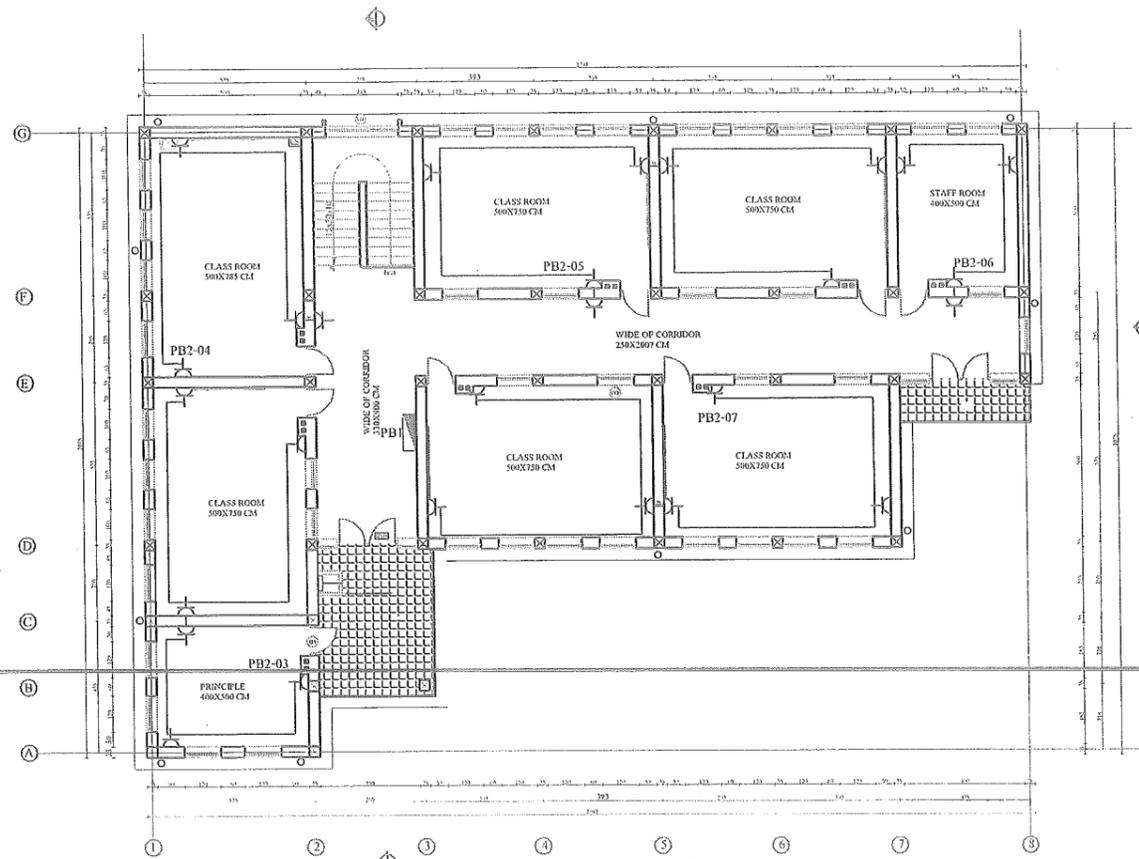
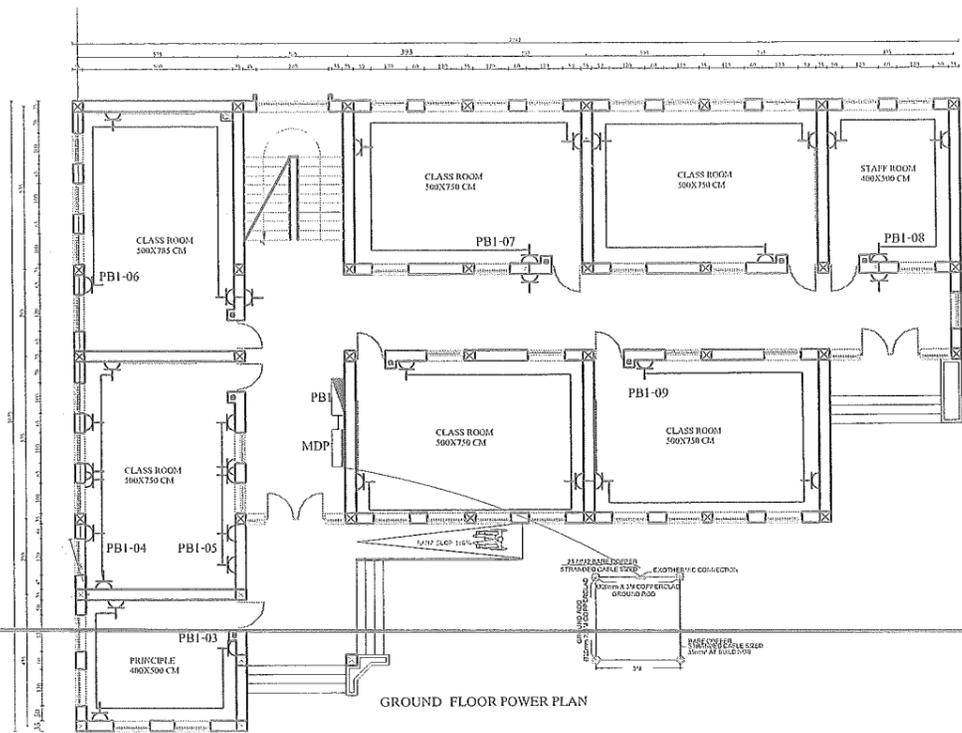
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ELECTRICAL DESIGN	ENG FEROUZ SADIQ	APPROVED-Dir/Msc	ENG.AB MOMEN RAD	TYPE	ELECTRICAL
CHECKED BY	ARCH SAID RASOOL	SCALE	AS SHOWN (A3)	CODE NO	3 5
TECH- APPROVED BY	ENG.AB.MATIN MAOOL	DATE	2015-07-7	S0254	

PROJECT NAME

DRAWING TITLE

12Class School Iron Sheet Roof.  
GROUND & FIRST FLOOR LIGHTING PLAN



*(Handwritten signature)*



MINISTRY OF EDUCATION  
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ELECTRICAL DESIGN	ENG FEROUZ SADID	APPROVED-Date	ENG AB MOMEN RAD	TYPE	ELECTRICAL	
CHECKED BY	ARCH SAID RASOOL	SCALE	AS SHOWN (A3)	CODE NO	4	SHEET No
TECH- APPROVED BY	ENG AB.MATIN MAOOL	DATE		S0254	5	

PROJECT NAME

DRAWING TITLE

12Class School Iron Sheet Roof.  
GROUND&FIRST FLOORS POWER PLAN