

MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT DESIGN: ARCH FARAH
CHECKED BY: ARCH SAID RASOOL
ENGR. APPROVED BY: ENGR. AB. MATIN MAOOL
DATE: CODE NO: 3015 S. 0266

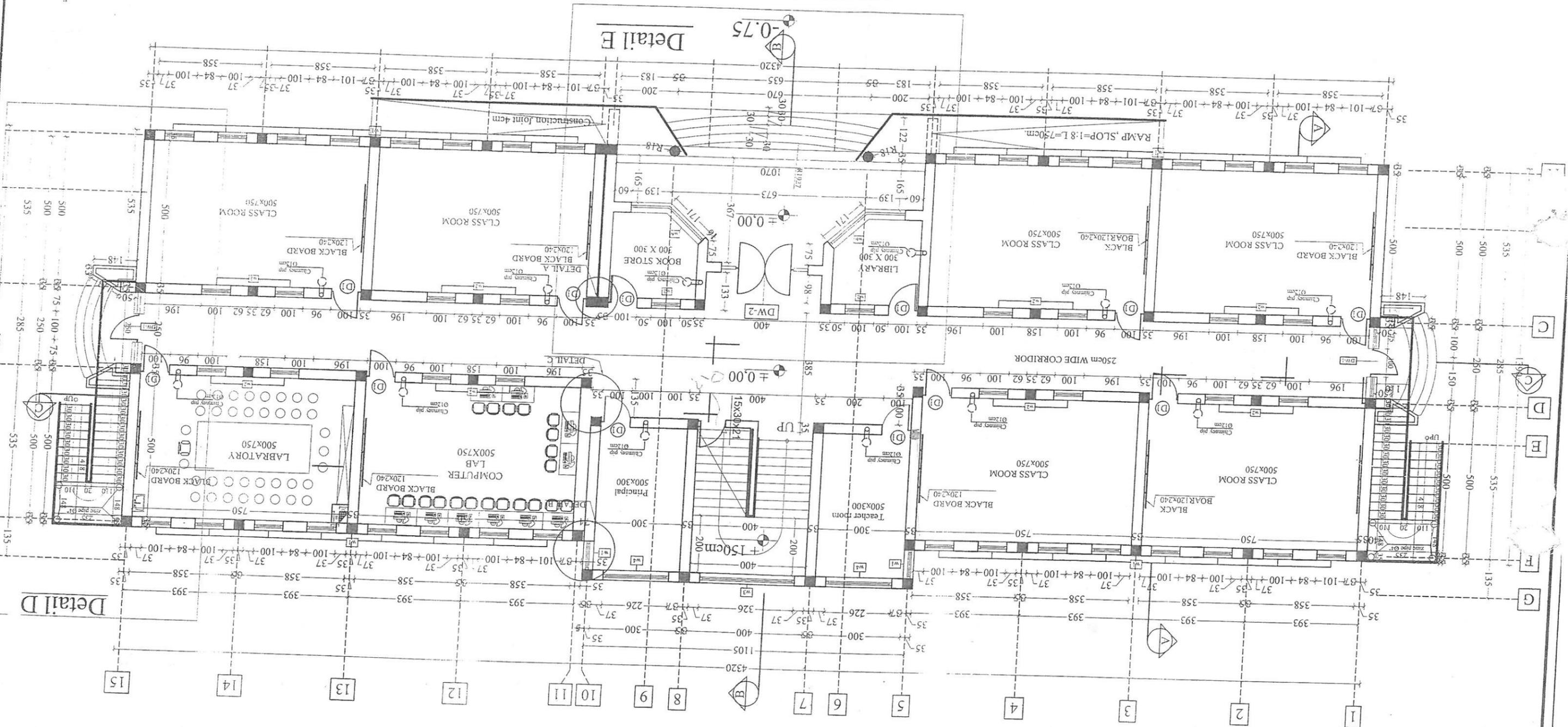
APPROVED Doc. No.: ENGR. AB. WOMEN RAD
TYPE: ARCHITECTURE

PROJECT NAME:
CLASS ROOM School B. Brick R.C.C. SHEET ROO

DRAWING TITLE:
with computer lab & laboratory.

GROUND FLOOR PLAN

GROUND FLOOR PLAN



Detail E

-0.75

Detail D

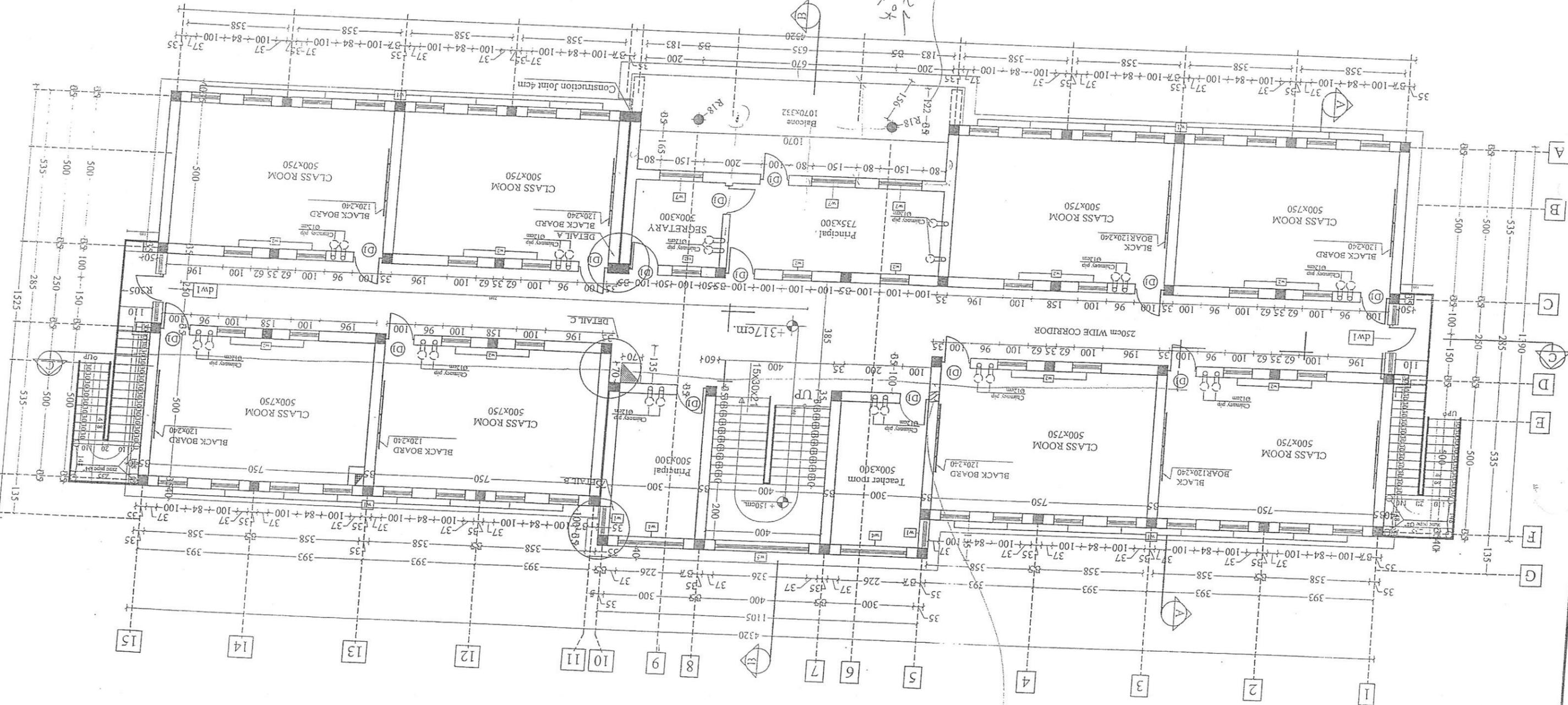
B

C
D
E
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G

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14
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ARCHITECT/DESIGN	ARCH. FARAH	APPROVED/Doc/Date	ENG. AB. MOMEN RAD	TYPE	ARCHITECTURE	PROJECT NAME	14 CLASS ROOM school B. Brick Rect. SHEET ROO
CHECKED BY	ARCH SAID RAJSTOL	SCALE	AS SHOWN (A3)	SHEET No	2	DRAWING TITLE	
TECH. APPROVED BY	ENG. AB. MATIN MAJOL	DATA CODE No	2015 S 0266				

FIRST FLOOR PLAN

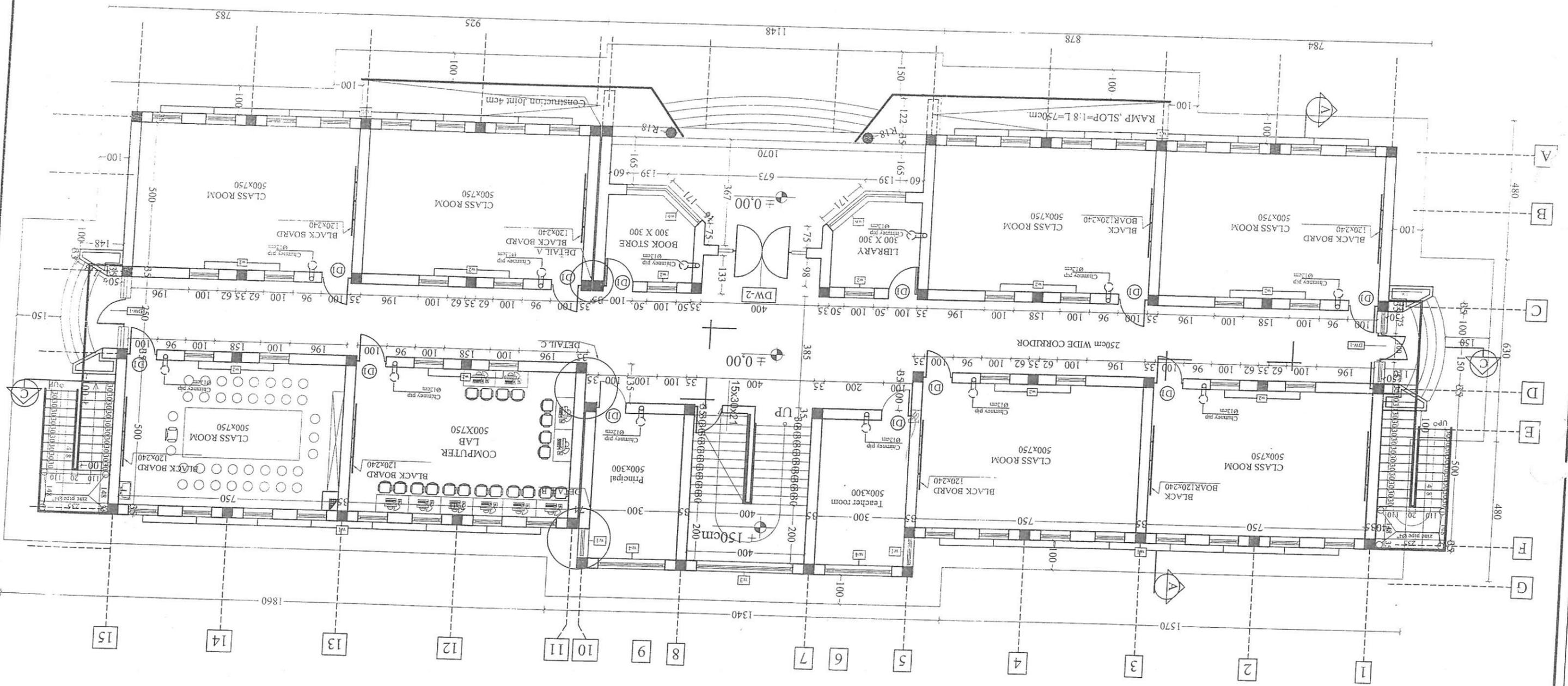


122+10=132 ok
see detail E

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Handwritten signature

SIDE WALK PLAN





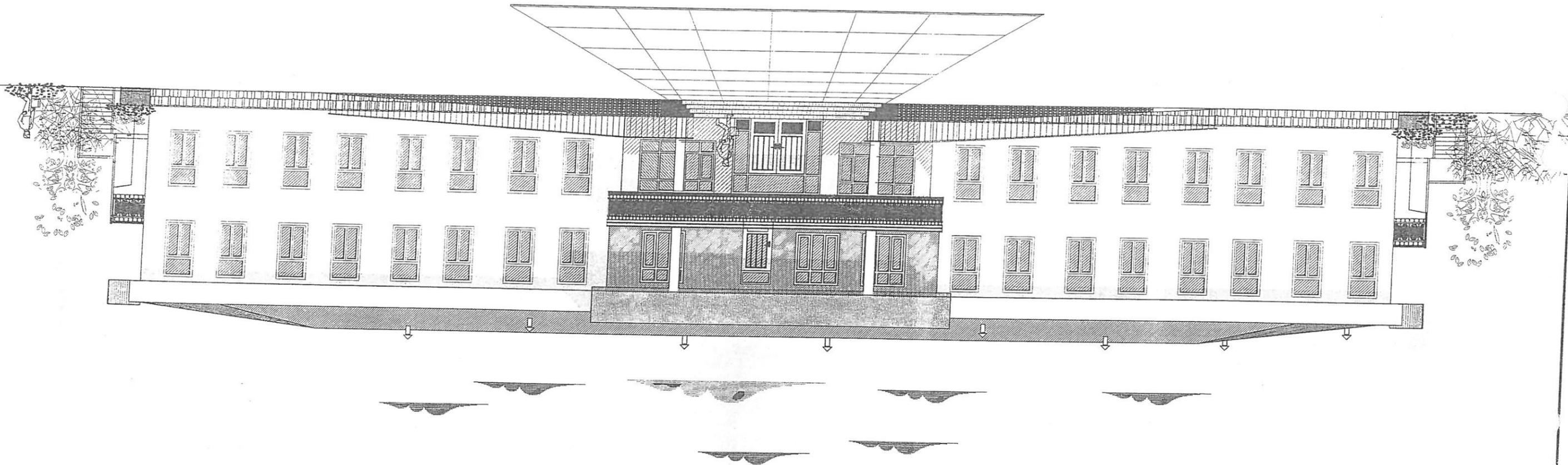
MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN ARCH.FARAH	APPROVED/DATE/NO. ENG.AB.MOMEN RAD	TYPE ARCHITECTURE	PROJECT NAME CLASS ROOM B, BRICK R.C.C. (SHEET ROOF)
CHECKED BY ARCH.SAID RASOOL	SCALE AS SHOWN (A3)	SHEET No	DRAWING TITLE CLASS ROOM B, BRICK R.C.C. (SHEET ROOF)
TECH. APPROVED BY ENG.AB.MATIN MAQOOL	DATE & CODE No 2015 S 0266		

FRONT ELEVATION





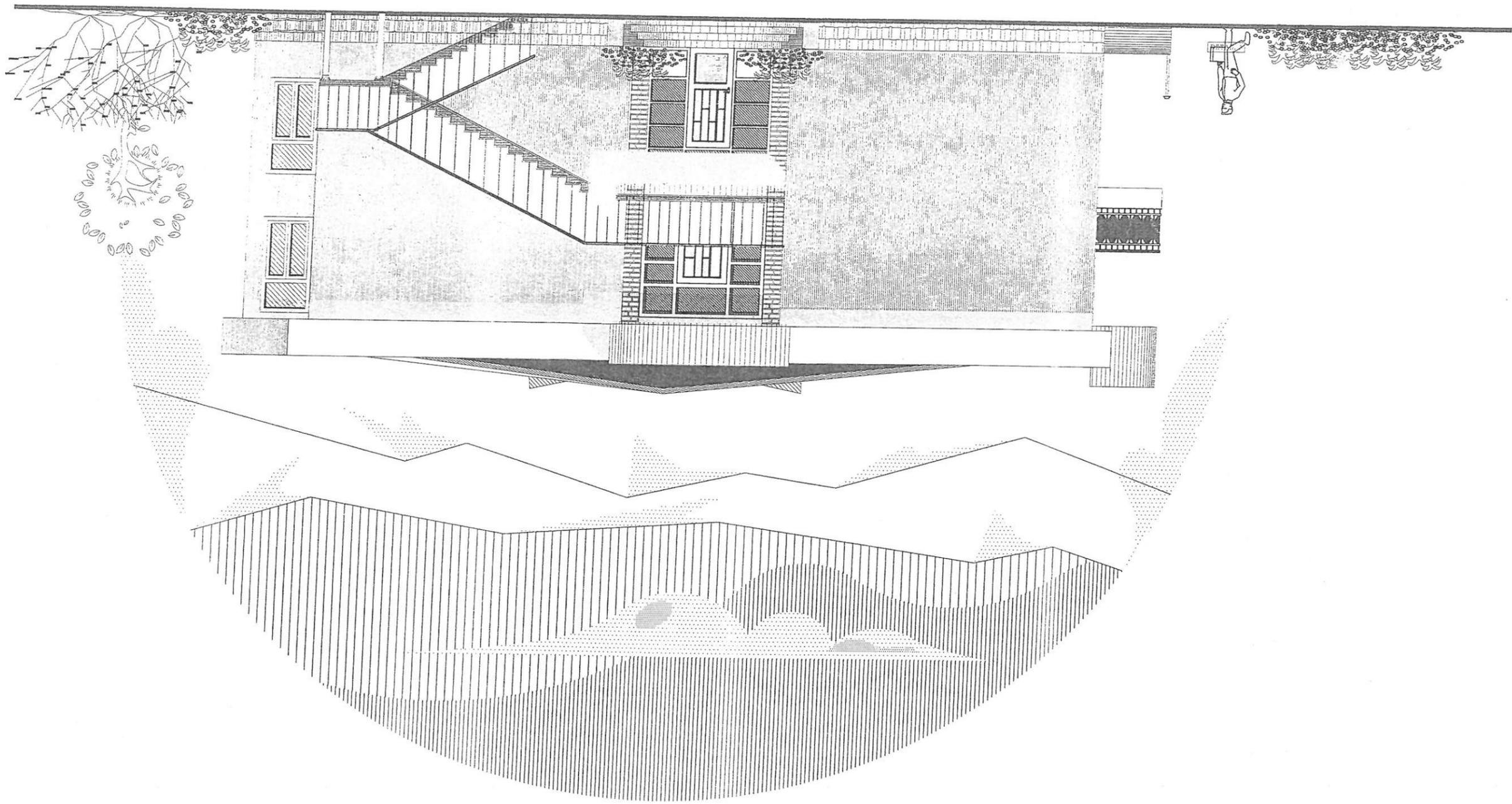
MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.FARAH	APPROVED/DATE	ENG.AB.MOMEN RAD	TYPE	ARCH. PICTURE	PROJECT NAME	
CHECKED BY	ARCH.SAID RASOOL	SCALE	AS SHOWN (A3)	SHEET No		DRAWING TITLE	14CLASS School room B.Brick R.c.c 1SHEET ROOF
TECH. APPROVAL BY	ENG.AB.MATIN MAQOOL	DATE & CODE No	2015 S 0266				

SIDE ELEVATION



Handwritten signature or initials.



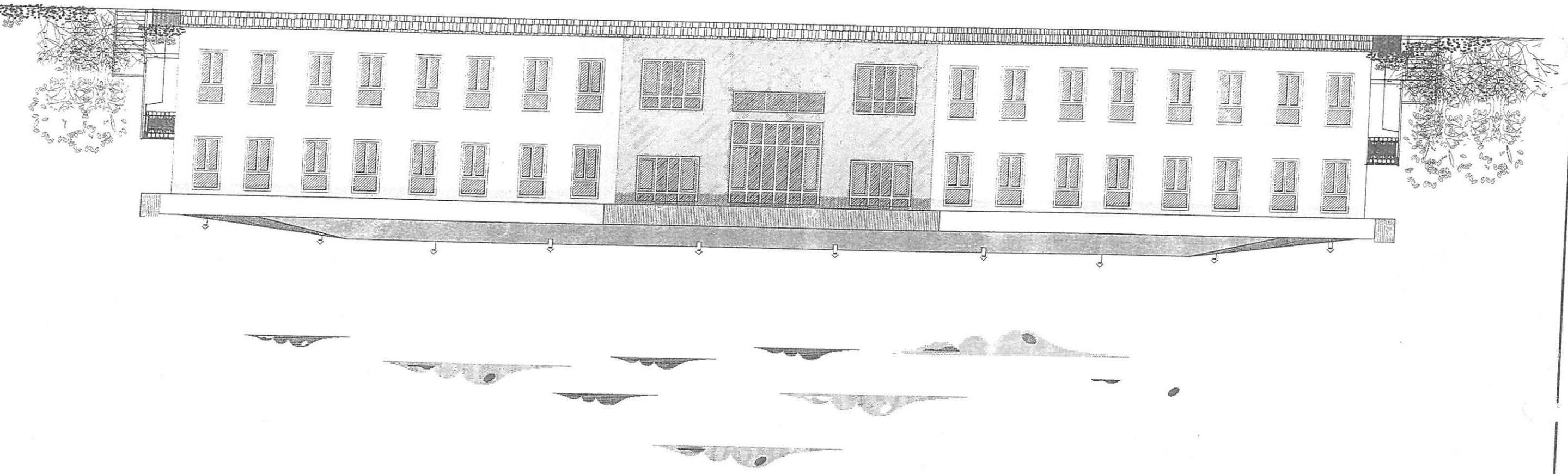
MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.FARAH	APPROVED/DATE	ENG.AB.MOMEN RAD	TYPE	ARCHITECTURE	PROJECT NAME	CLASS School room B.Brick R.C.C ISHEET ROOF
CHECKED BY	ARCH.SAID RASOOL	SCALE	AS SHOWN (A3)	SHEET No	6	DRAWING TITLE	with computer lab & laboratory
TECH. APPROVED BY	ENG.AB.MATIN MAOOL	DATE & CODE No	2015 S 0266				BACK ELEVATION

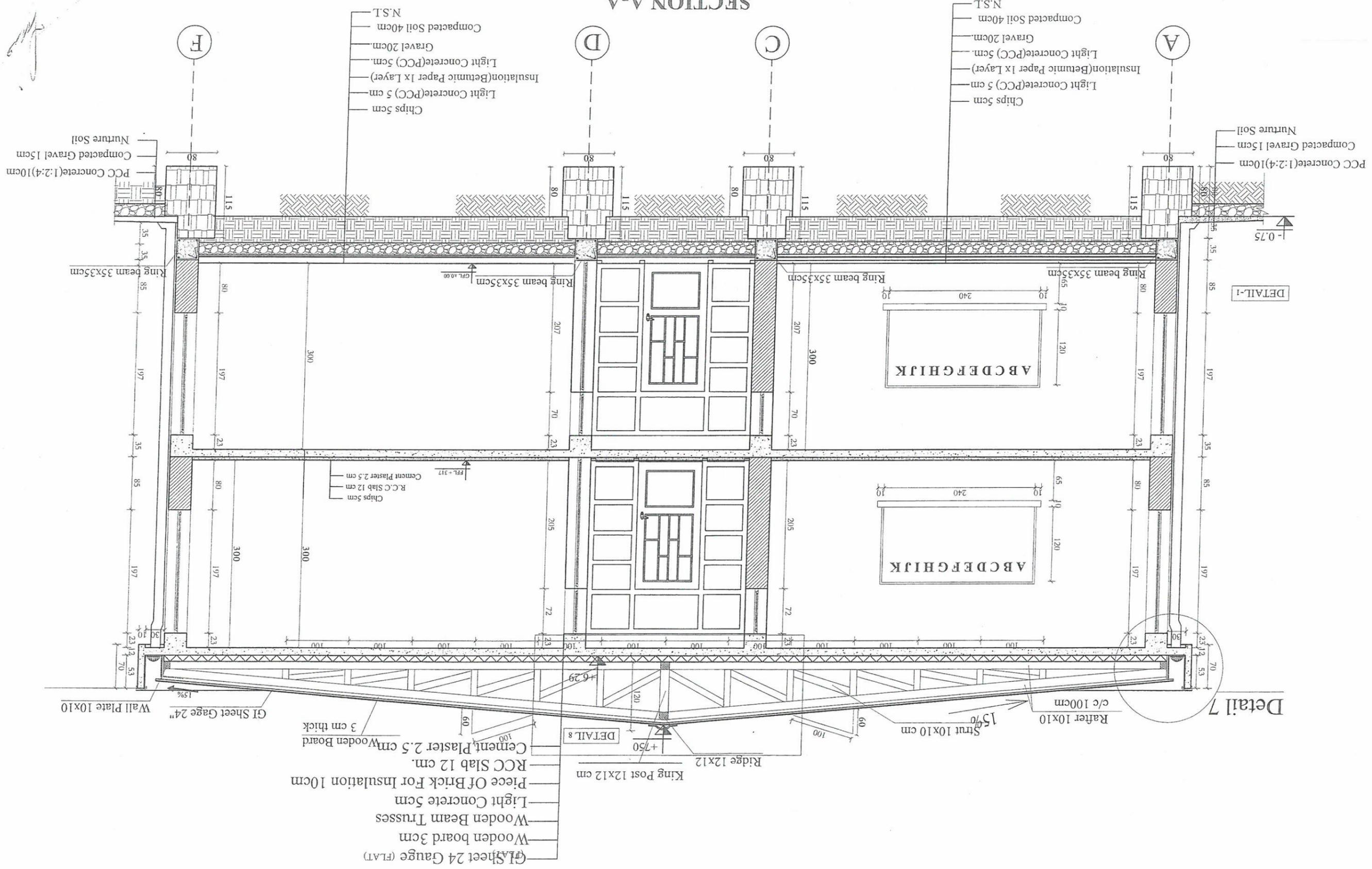
BACK ELEVATION





ARCHITECT/DESIGN: ARCH.FARAH	APPROVED/Doc.No:	ENG.AB.MOMEN RAD	TYPE: ARCHITECTURE	PROJECT NAME: 14CLASS School room B.Brick R.c.c I.SHEET ROOF.
CHECKED BY: ARCH.SAID RASOOL	SCALE: AS SHOWN (A3)	DATE & CODE No: 2015 S 0266	SHEET No: 7	DRAWING TITLE: 14CLASS School room B.Brick R.c.c I.SHEET ROOF.
TECH. APPROVED BY: ENG.AB.MAJID MAQOL				with computer lab & laboratory SECTION A-A

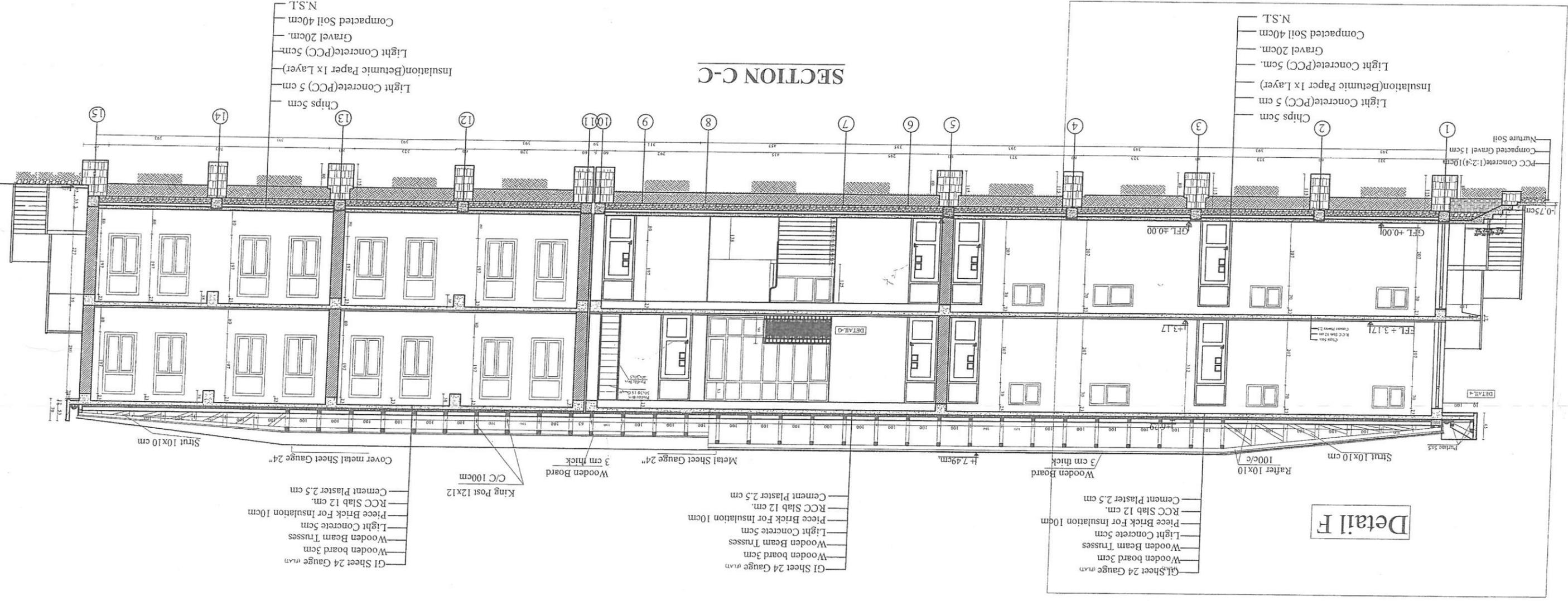
SECTION A-A





ARCHITECT/DESIGN	ARCH.FARAH	APPROVED/DATE	ENG AB MOMEN RAD	TYPE	ARCHITECTURE	PROJECT NAME	CLASS School room B.Brick R.c.c ISHEET ROOM
CHECKED BY	ARCH.SAID RASOOL	SCALE	AS SHOWN (A3)	SHEET No	9	DRAWING TITLE	With computer lab& laboratory
TRCHT-APPROVED BY	ENG.AB.MATIN MAQOL	DATE & CODE No	2015 S 0266				LONG SECTION

SECTION C-C



Chips 5cm
Light Concrete(PCC) 5 cm
Insulation(Betumic Paper 1x Layer)
Light Concrete(PCC) 5cm
Gravel 20cm.
Compacted Soil 40cm
N.S.L.

Chips 5cm
Light Concrete(PCC) 5 cm
Insulation(Betumic Paper 1x Layer)
Light Concrete(PCC) 5cm
Gravel 20cm.
Compacted Soil 40cm
N.S.L.

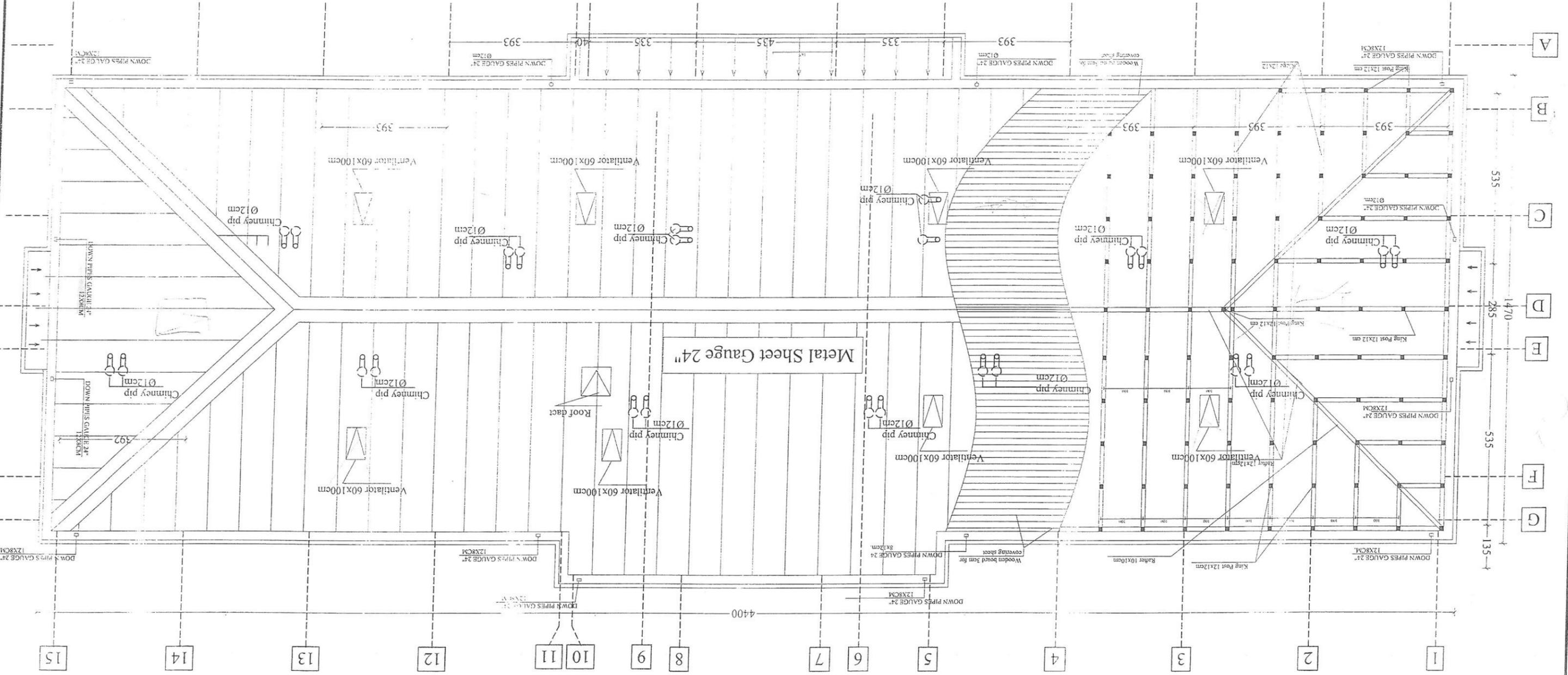
GI Sheet 24 Gauge (r.m.)
Wooden board 3cm
Wooden Beam Trusses
Light Concrete 5cm
Piece Brick For Insulation 10cm
RCC Slab 12 cm.
Cement Plaster 2.5 cm

GI Sheet 24 Gauge (r.m.)
Wooden board 3cm
Wooden Beam Trusses
Light Concrete 5cm
Piece Brick For Insulation 10cm
RCC Slab 12 cm.
Cement Plaster 2.5 cm

GI Sheet 24 Gauge (r.m.)
Wooden board 3cm
Wooden Beam Trusses
Light Concrete 5cm
Piece Brick For Insulation 10cm
RCC Slab 12 cm.
Cement Plaster 2.5 cm

Detail F

ROOF PLAN



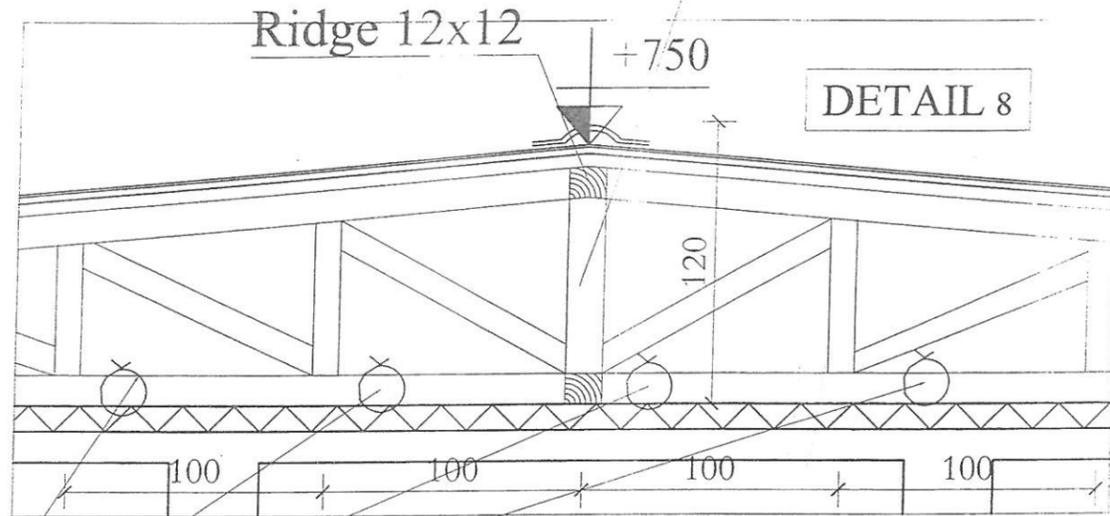
Handwritten signature and date: 1/11/15

King Post 12x12 cm

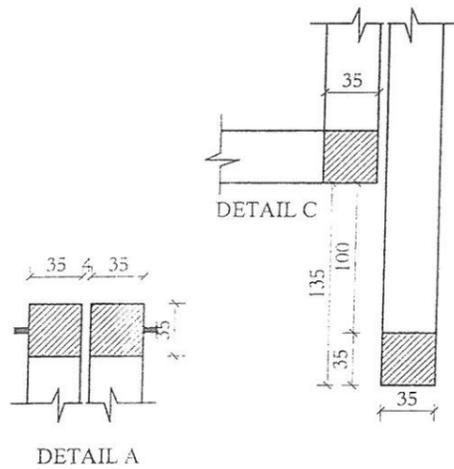
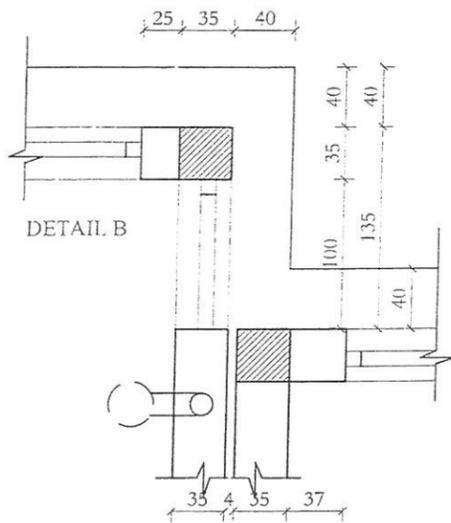
Ridge 12x12

+750

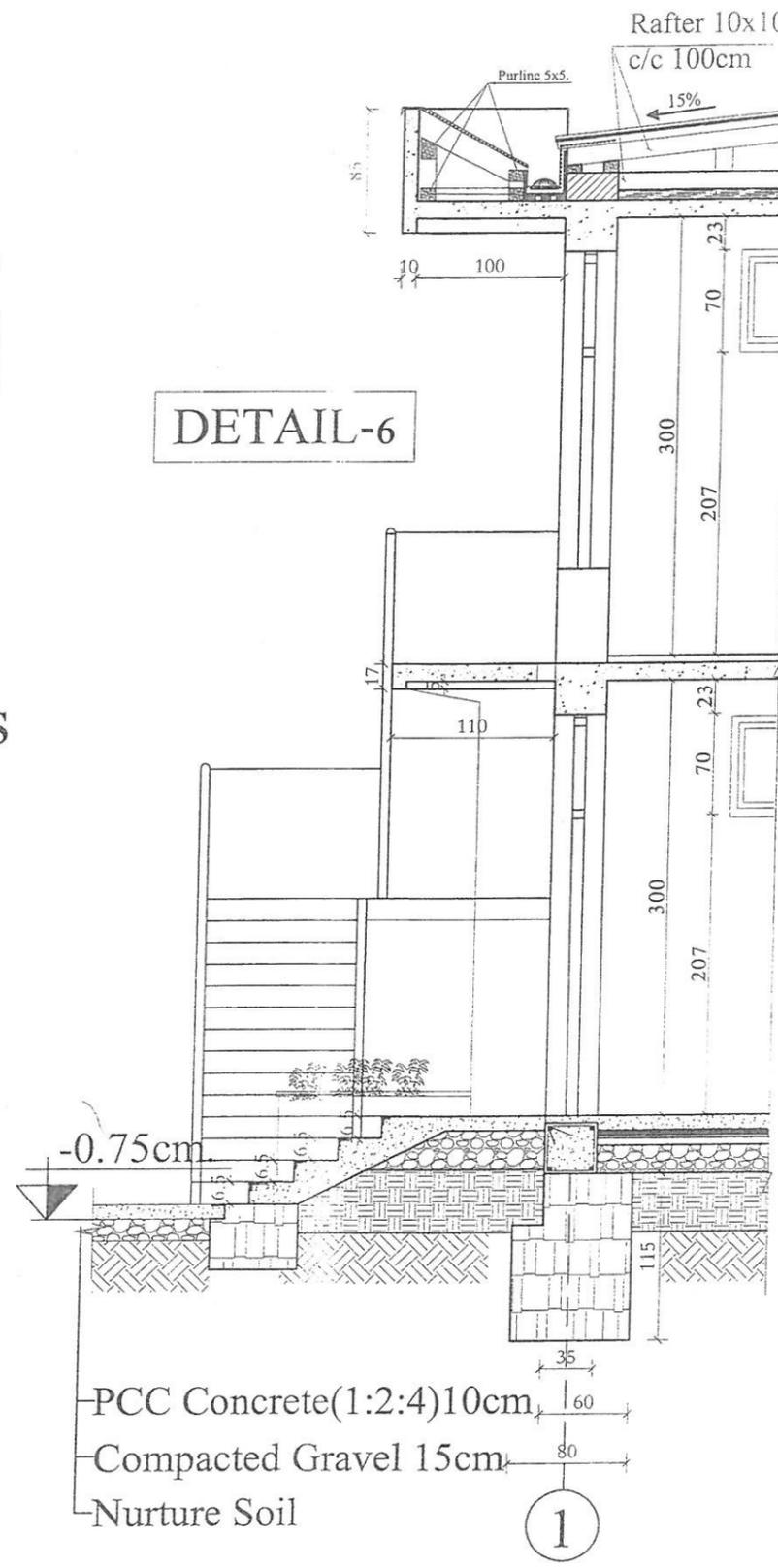
DETAIL 8



Ø 8mm steel bar for fixing trasses
c/c 200cm

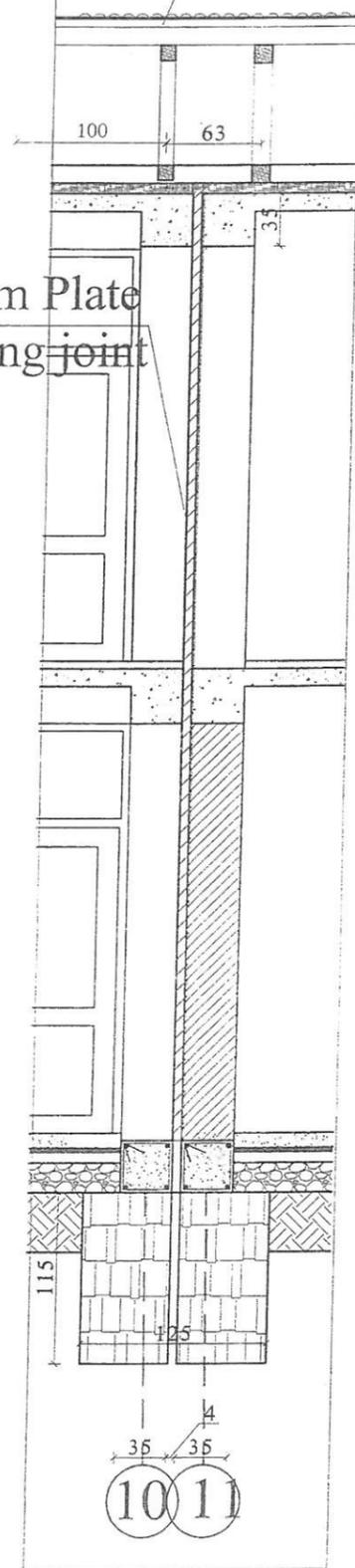


DETAIL-6

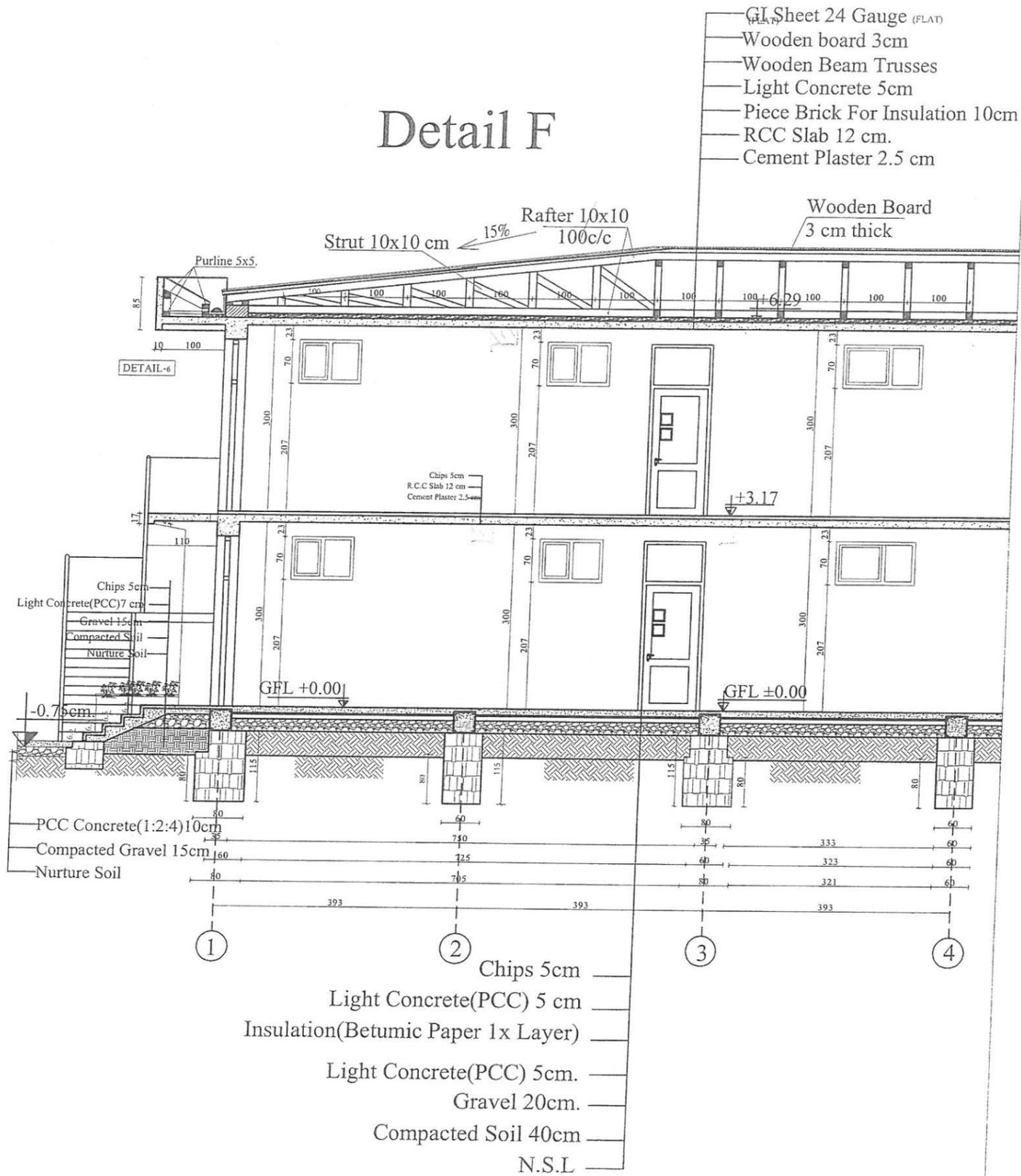


Wooden Board
3 cm thick

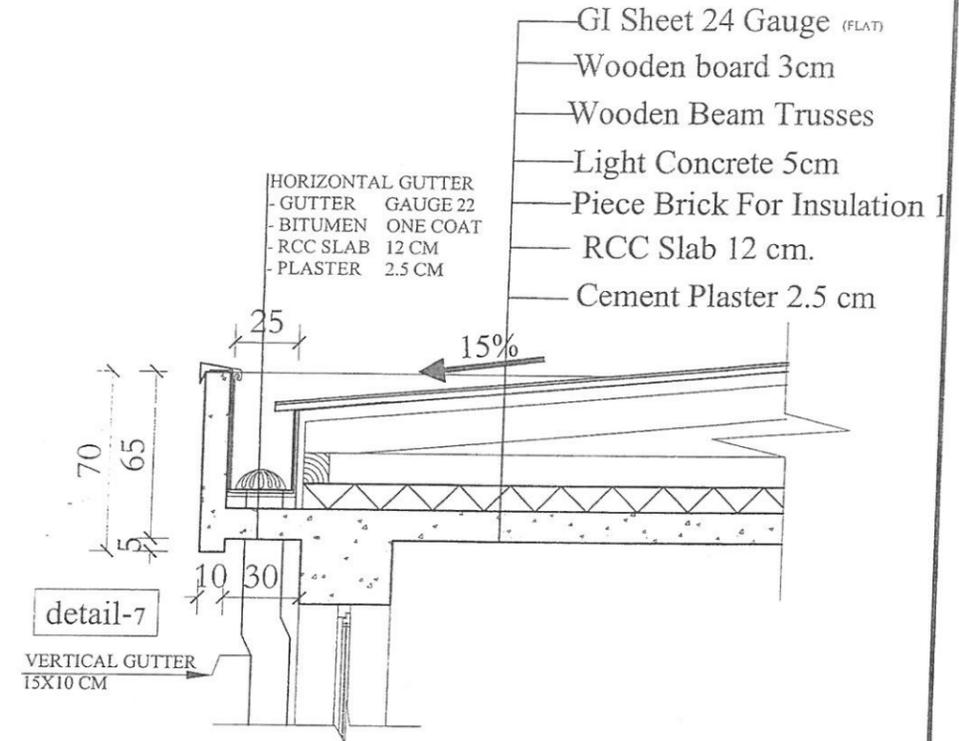
Almunuom Plate
for covering joint



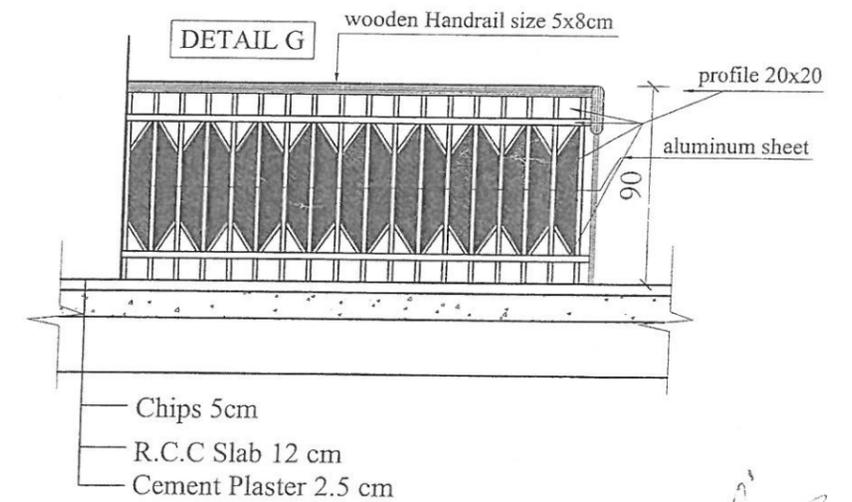
Detail F



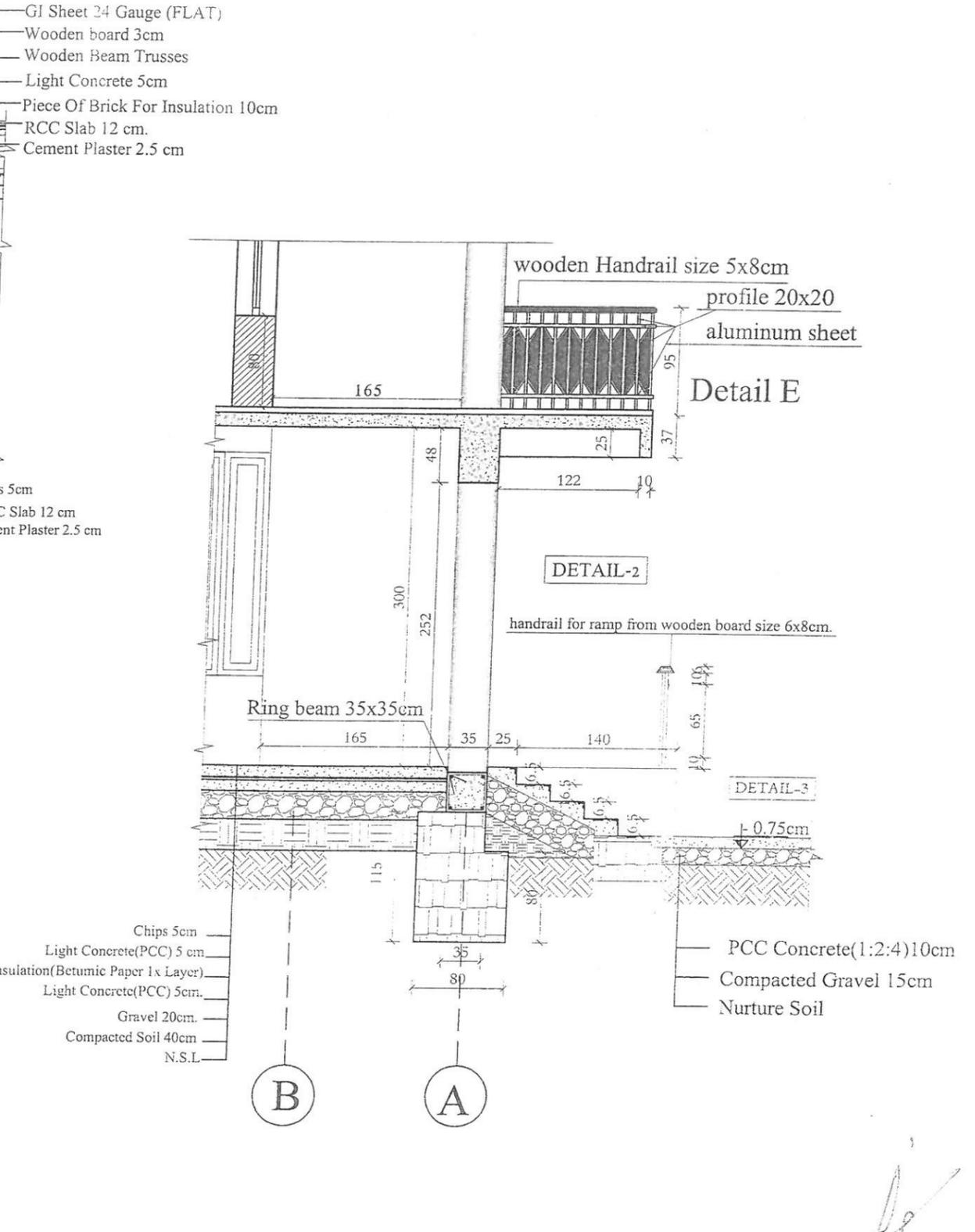
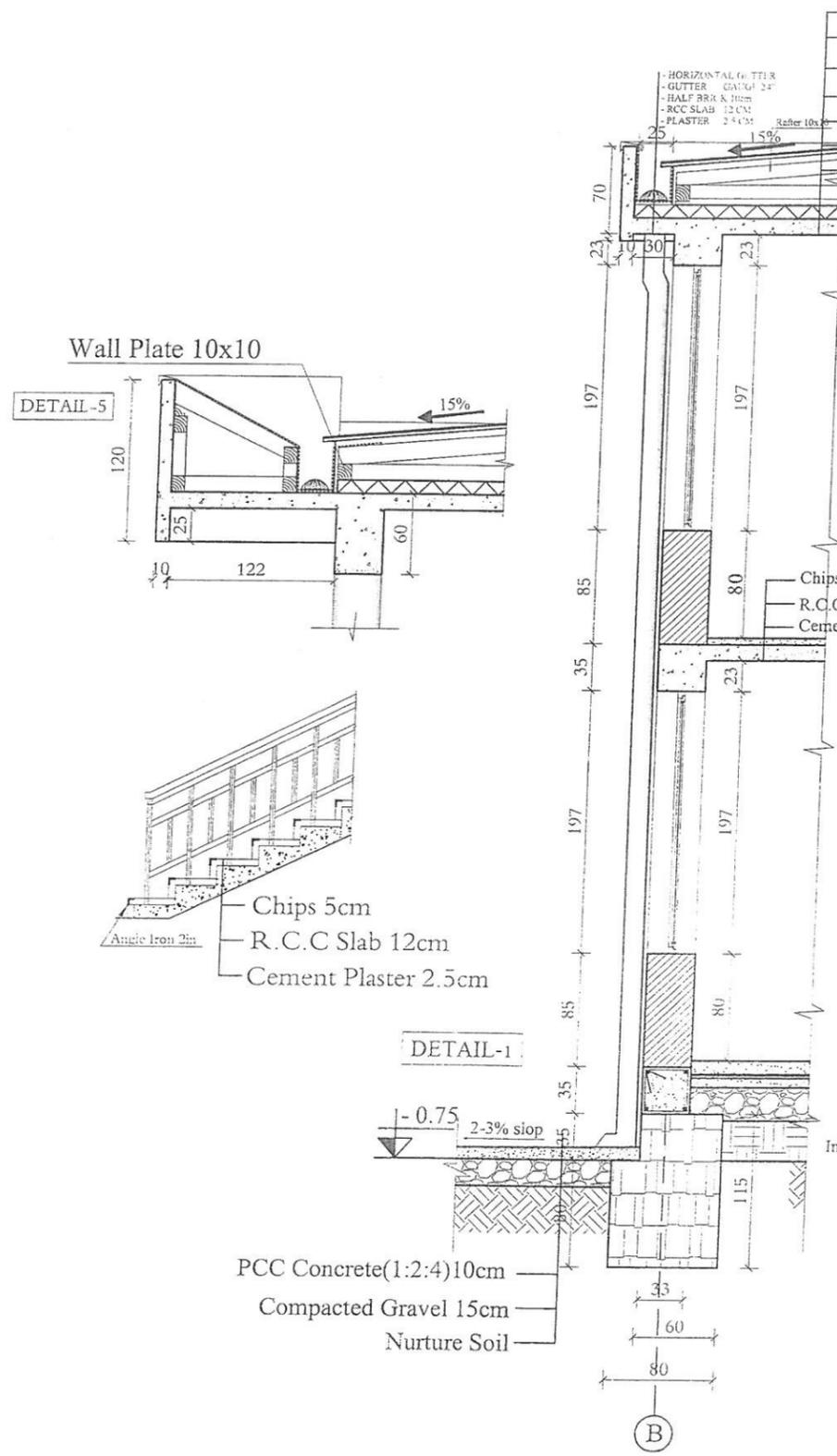
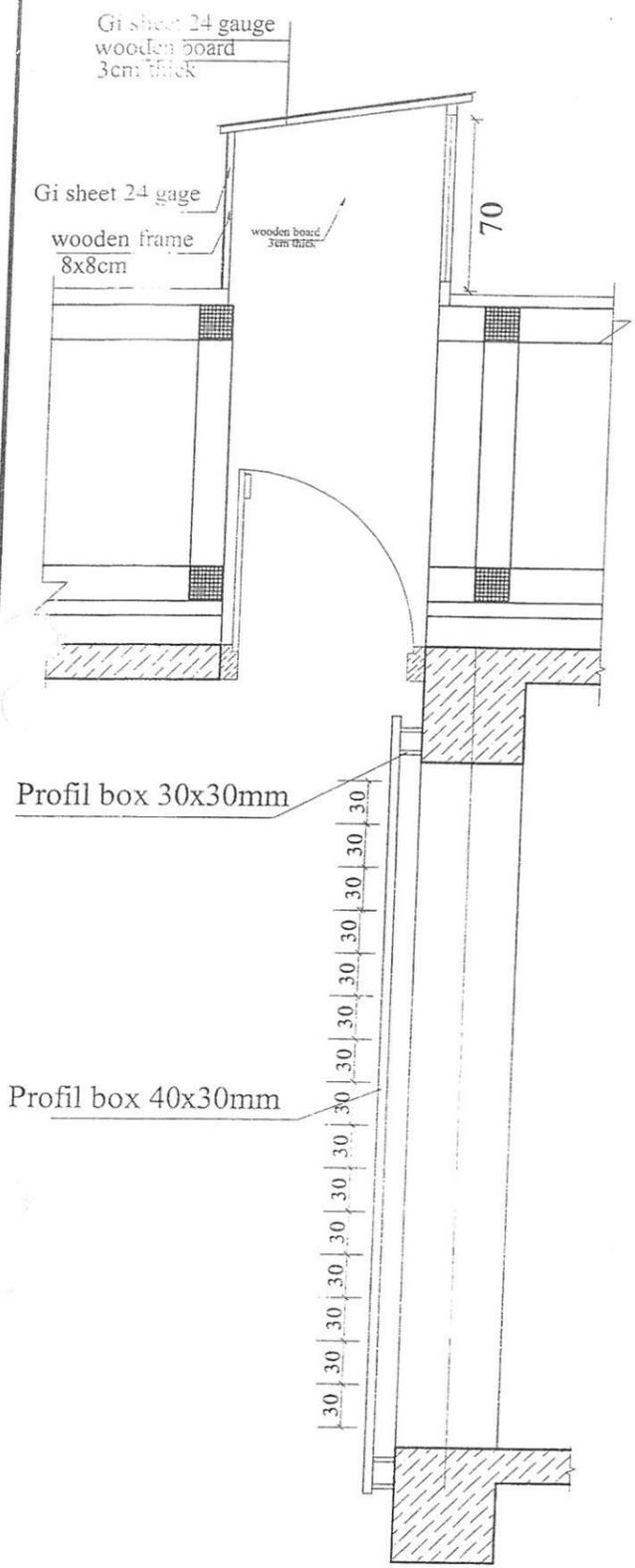
- GI Sheet 24 Gauge (FLAT)
- Wooden board 3cm
- Wooden Beam Trusses
- Light Concrete 5cm
- Piece Brick For Insulation 10cm
- RCC Slab 12 cm.
- Cement Plaster 2.5 cm



- GI Sheet 24 Gauge (FLAT)
- Wooden board 3cm
- Wooden Beam Trusses
- Light Concrete 5cm
- Piece Brick For Insulation 1
- RCC Slab 12 cm.
- Cement Plaster 2.5 cm

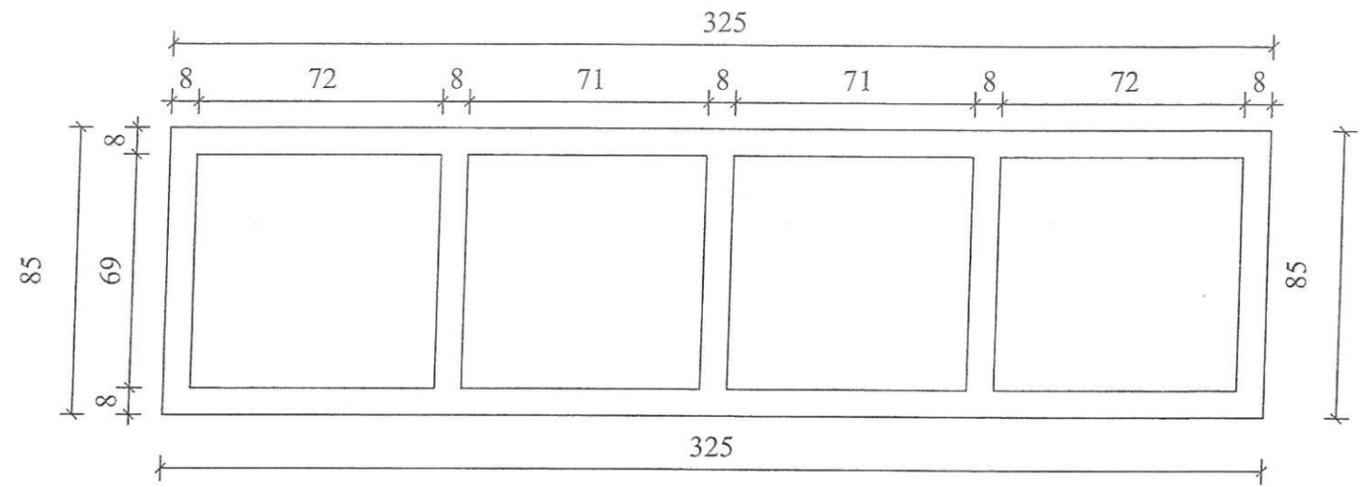
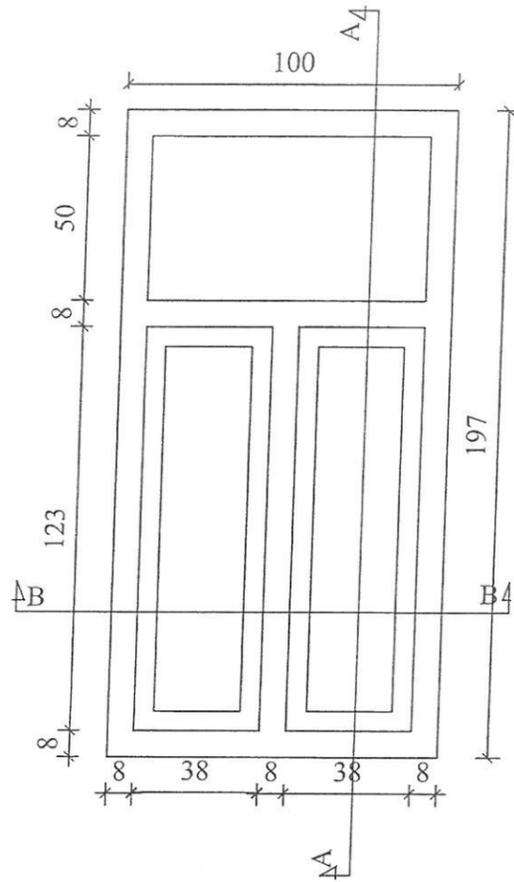


- Chips 5cm
- R.C.C Slab 12 cm
- Cement Plaster 2.5 cm

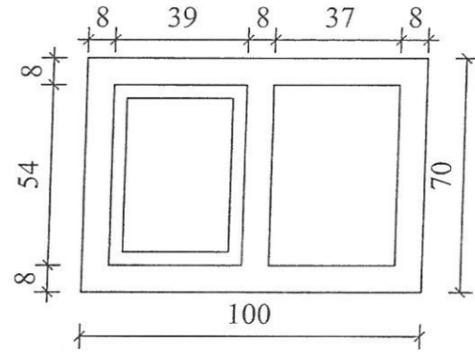


Dact detail

window-1 n=68

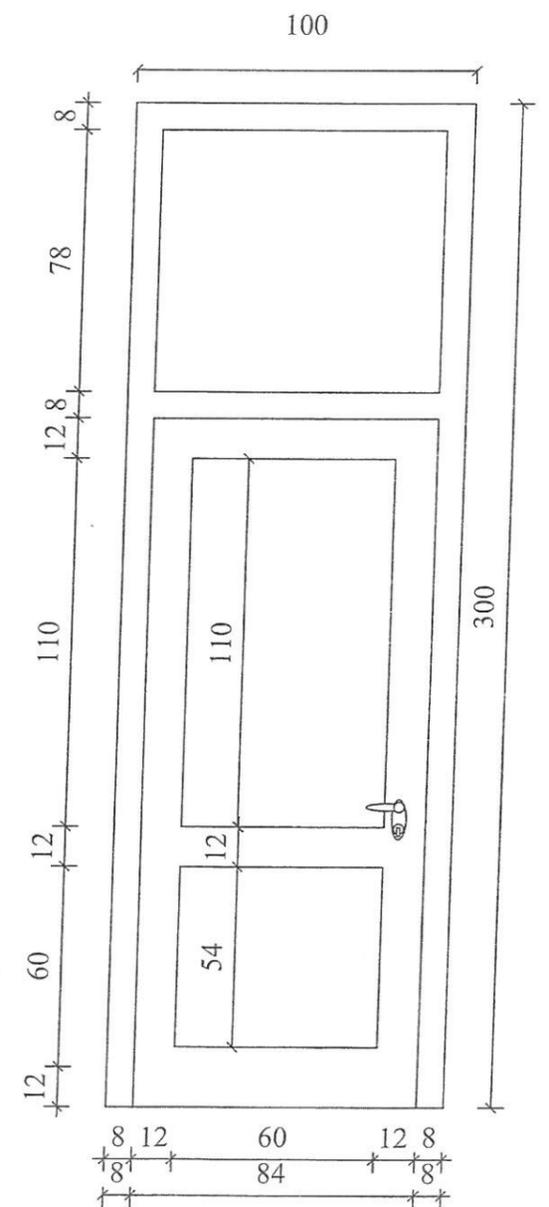
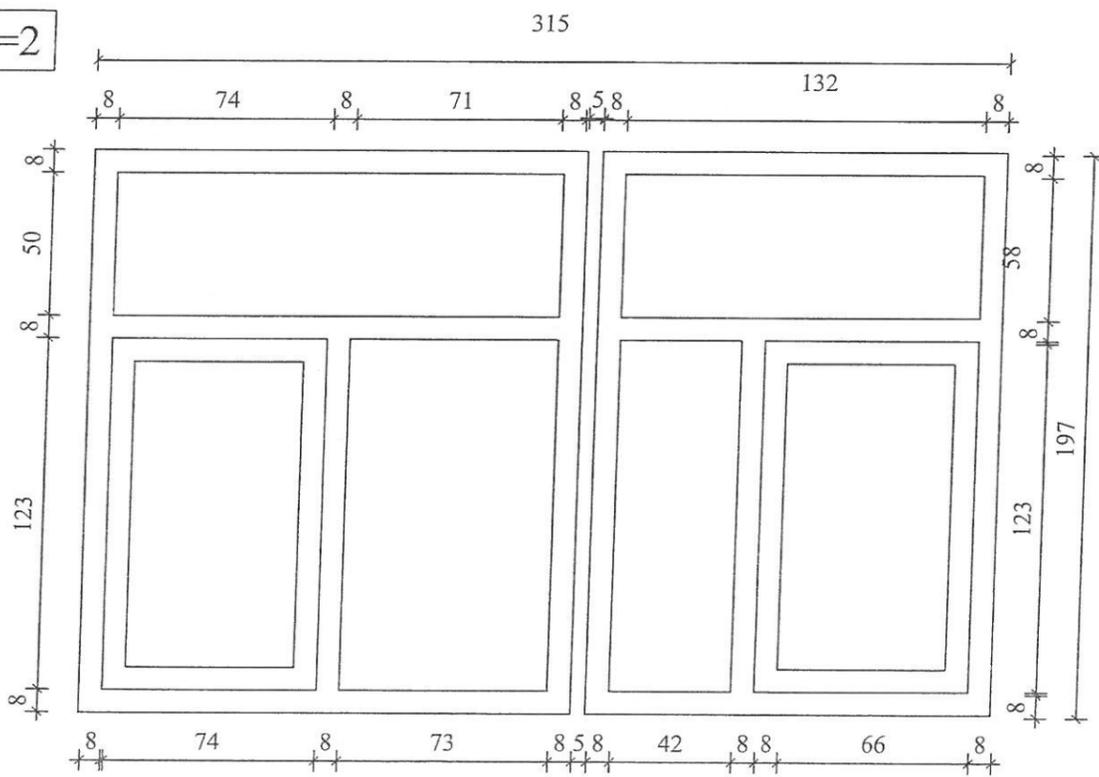


window 3 n=1



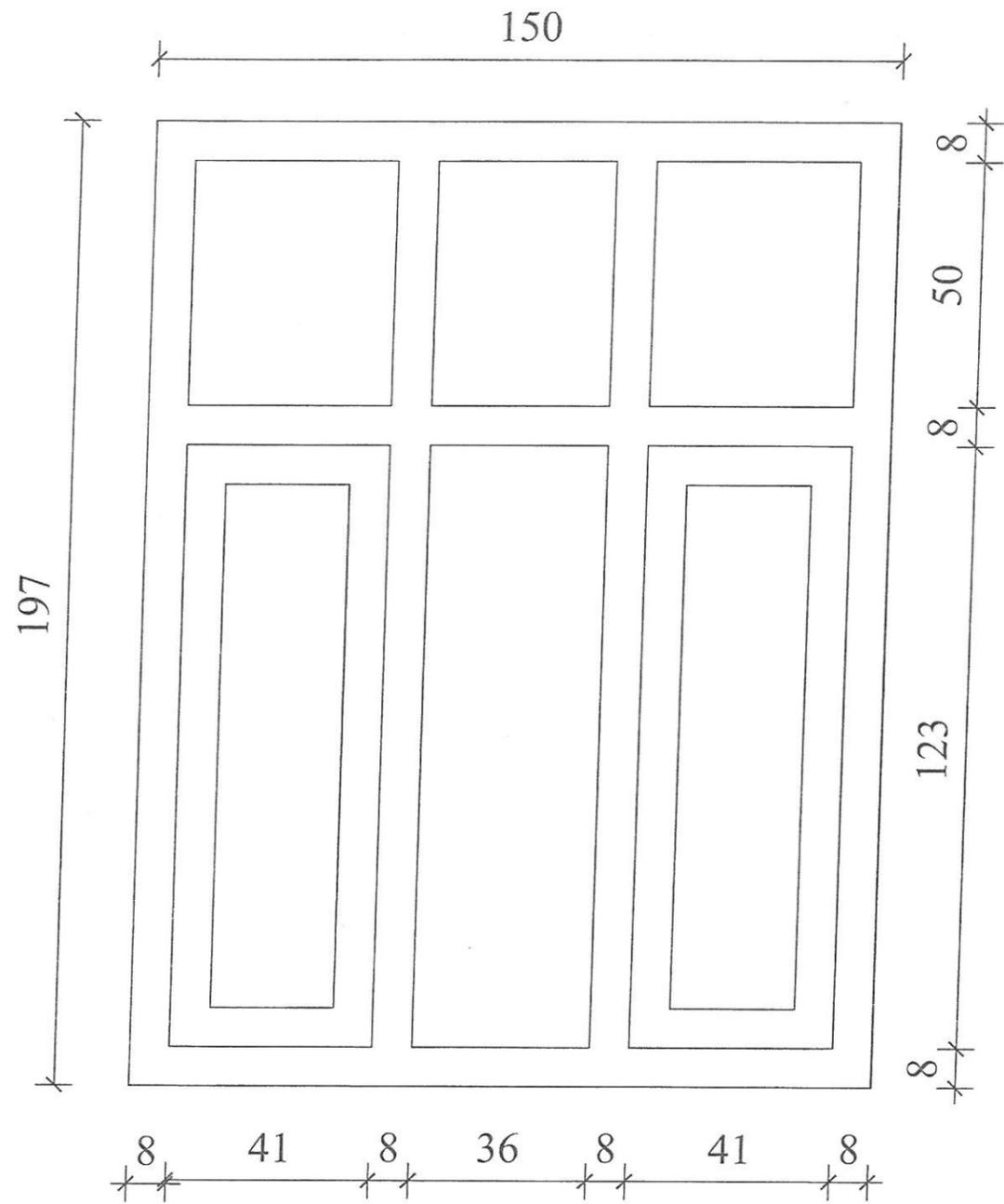
window 2 n=37

window-6 n=2

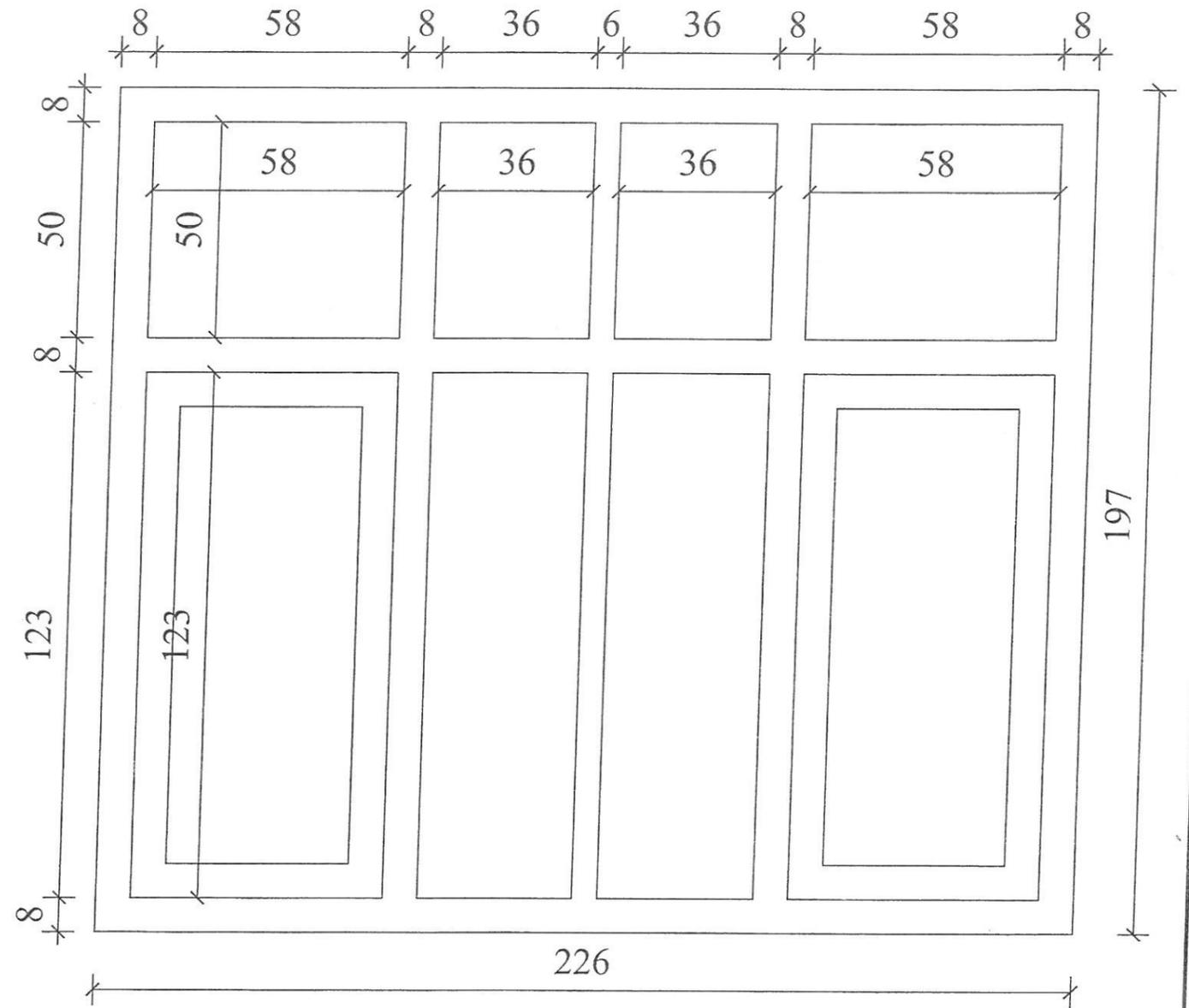


door 1 n=1

window-7 n=3

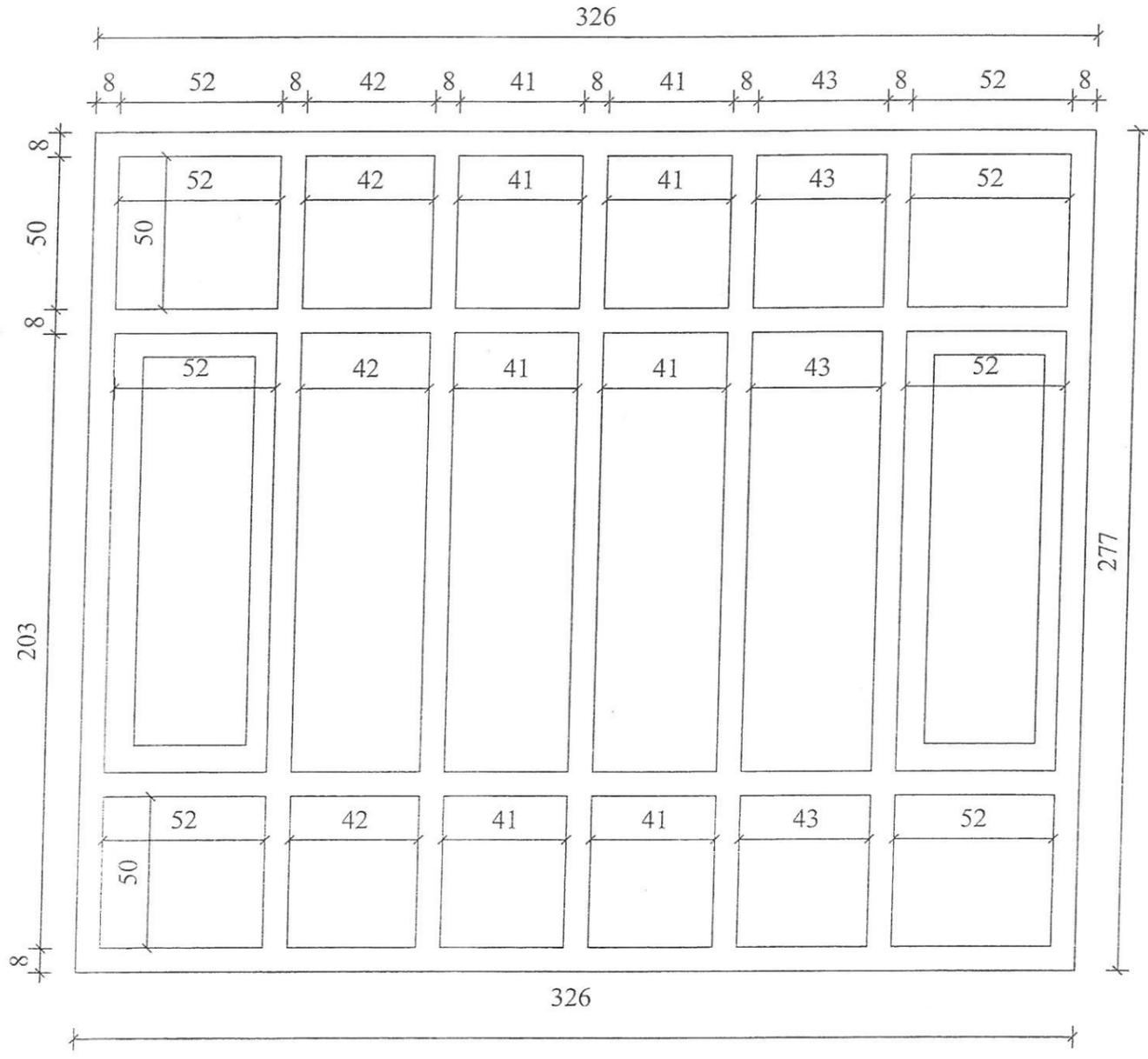


window-4 n=4

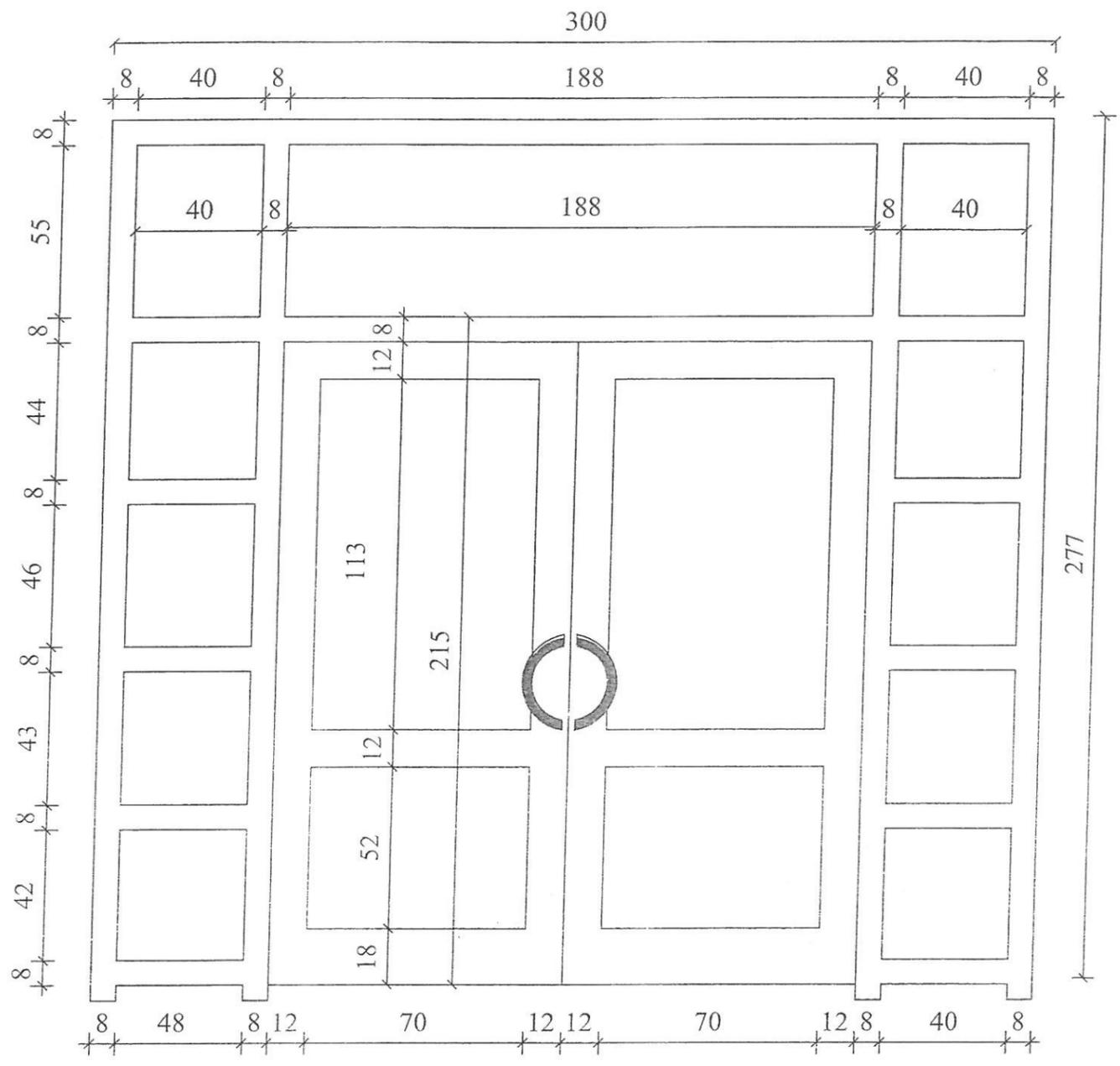


ARCHITECT/DESIGN	ARCH.FARAH	APPROVED.Doc/Moc	AB.MOMEN RAD	TYPE	ARCHITECTURE	PROJECT NAME	14 CLASS Room school B.Brick RCC. I. SHEET ROOF with computer lab & laboratory
CHECKED BY	ARCH.SAID RASOOL	SCALE	AS SHOWN (A3)	SHEET No	18 24	DRAWING TITLE	
TECH-APPROVED BY		DATE & CODE NO	2015 S 0266				

window-5n=1



door window-2 n=1

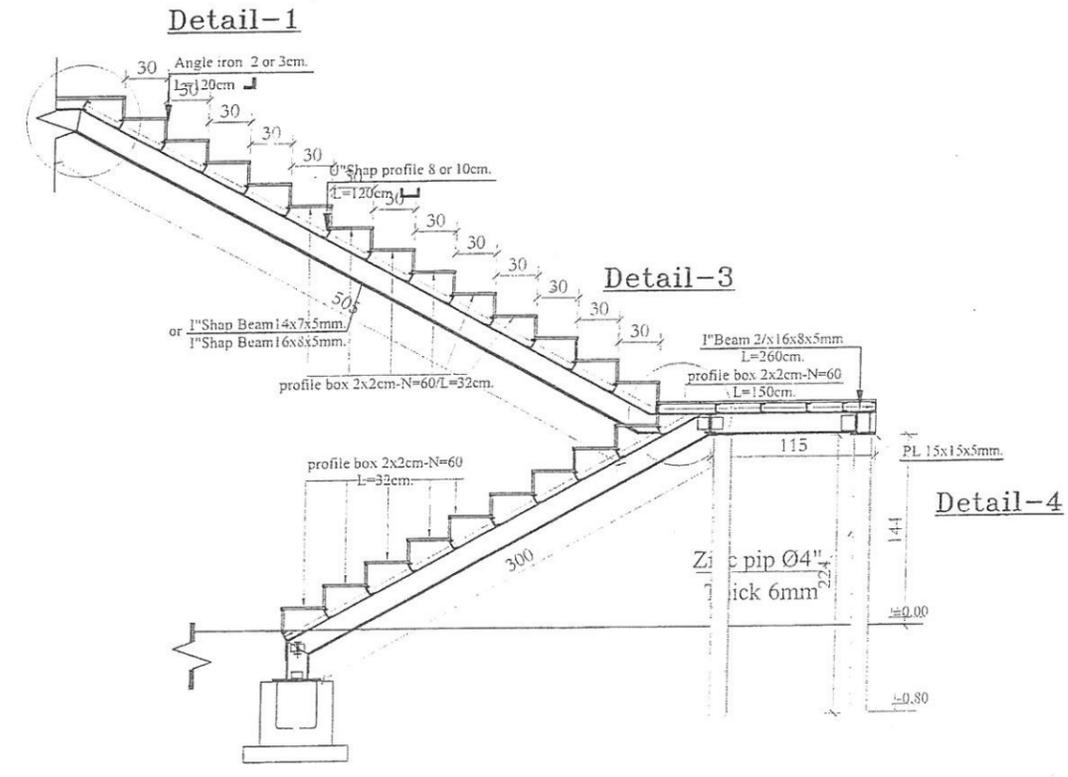
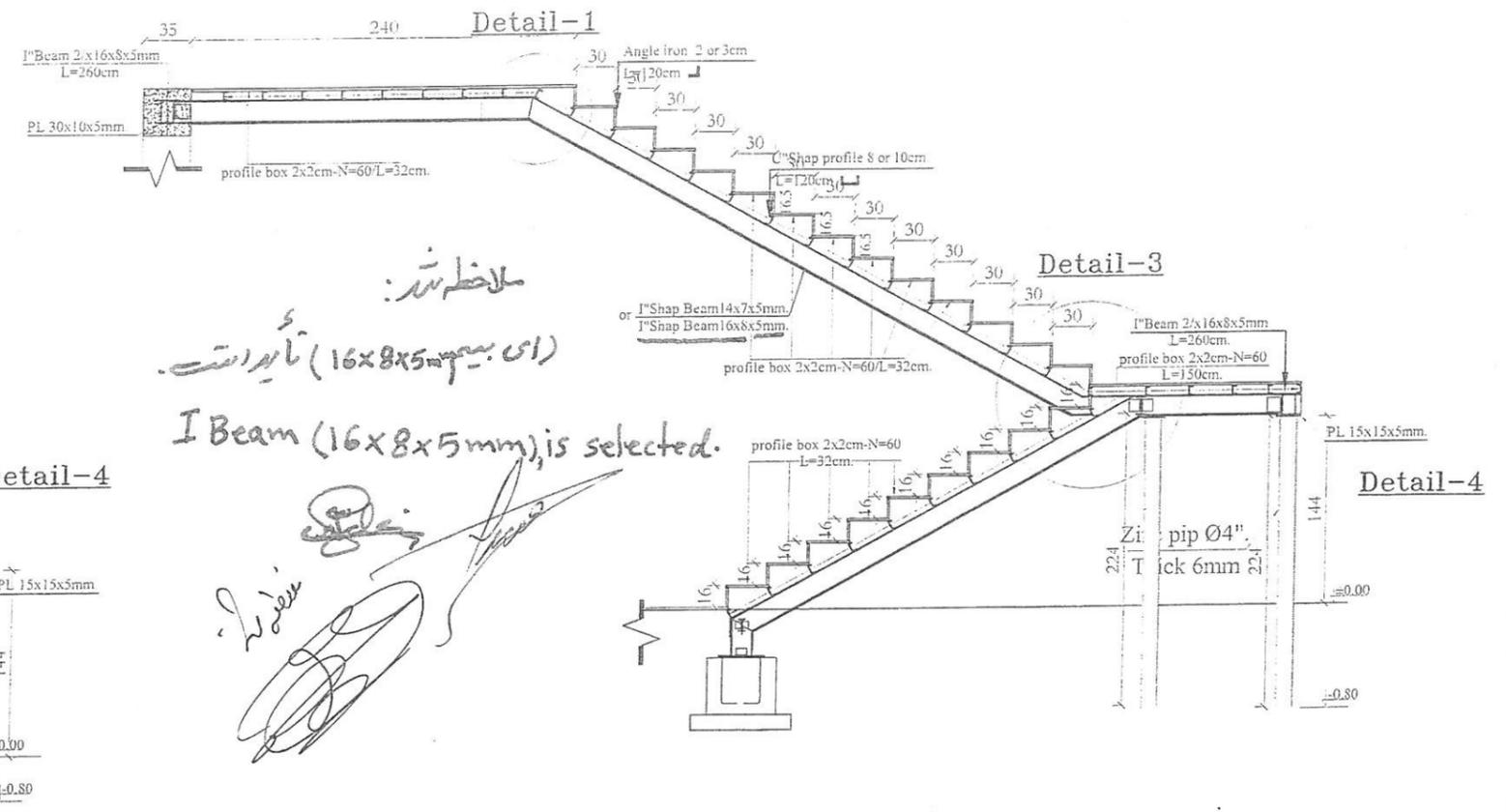
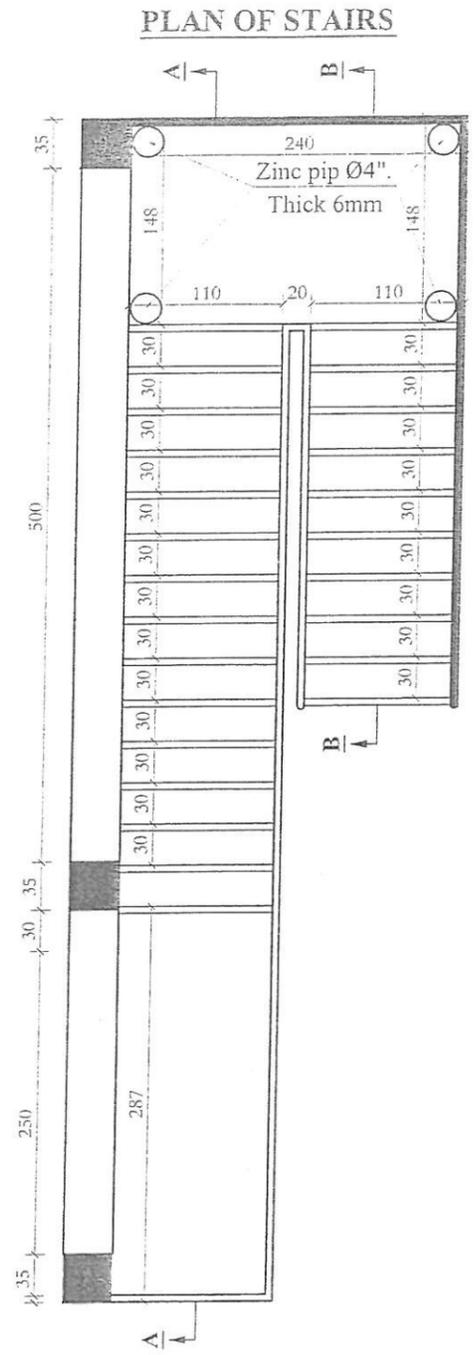


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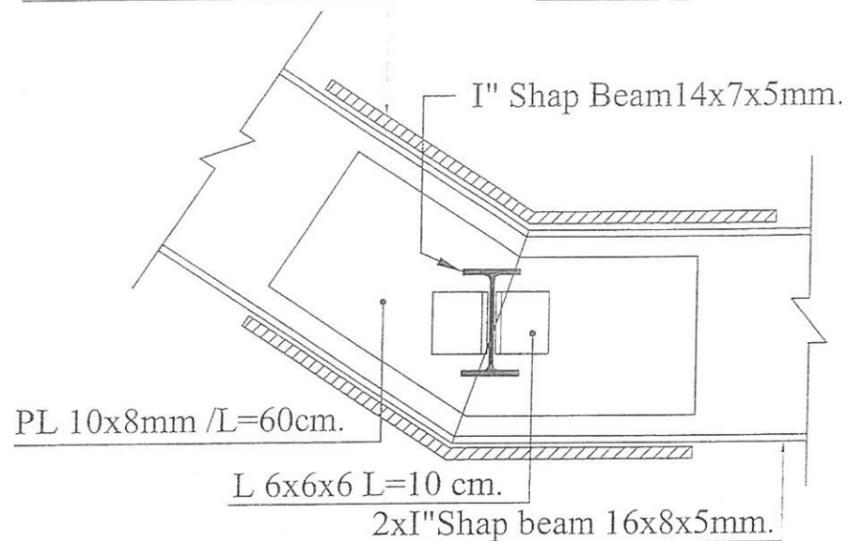
STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.FARAH	APPROVED/Doc/No	ENG.AB.MOMEN RAD	TYPE	ARCHITECTURE	PROJECT NAME
CHECKED BY	ARCH.SAID RASOOL	SCALE	AS SHOWN (A3)	SHEET No	19 24	14 CLASS Room school B.Brick RCC.T. SHEET ROOM
TECH- APPROVED BY	ENG.AB.MATIN MAQOOL	DATE& CODE NO	2015 S 0266	DRAWING TITLE		with computer lab & laboratory

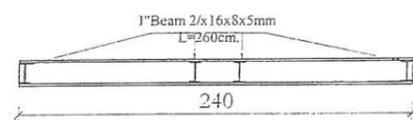


PL 10x8mm /L=60cm.

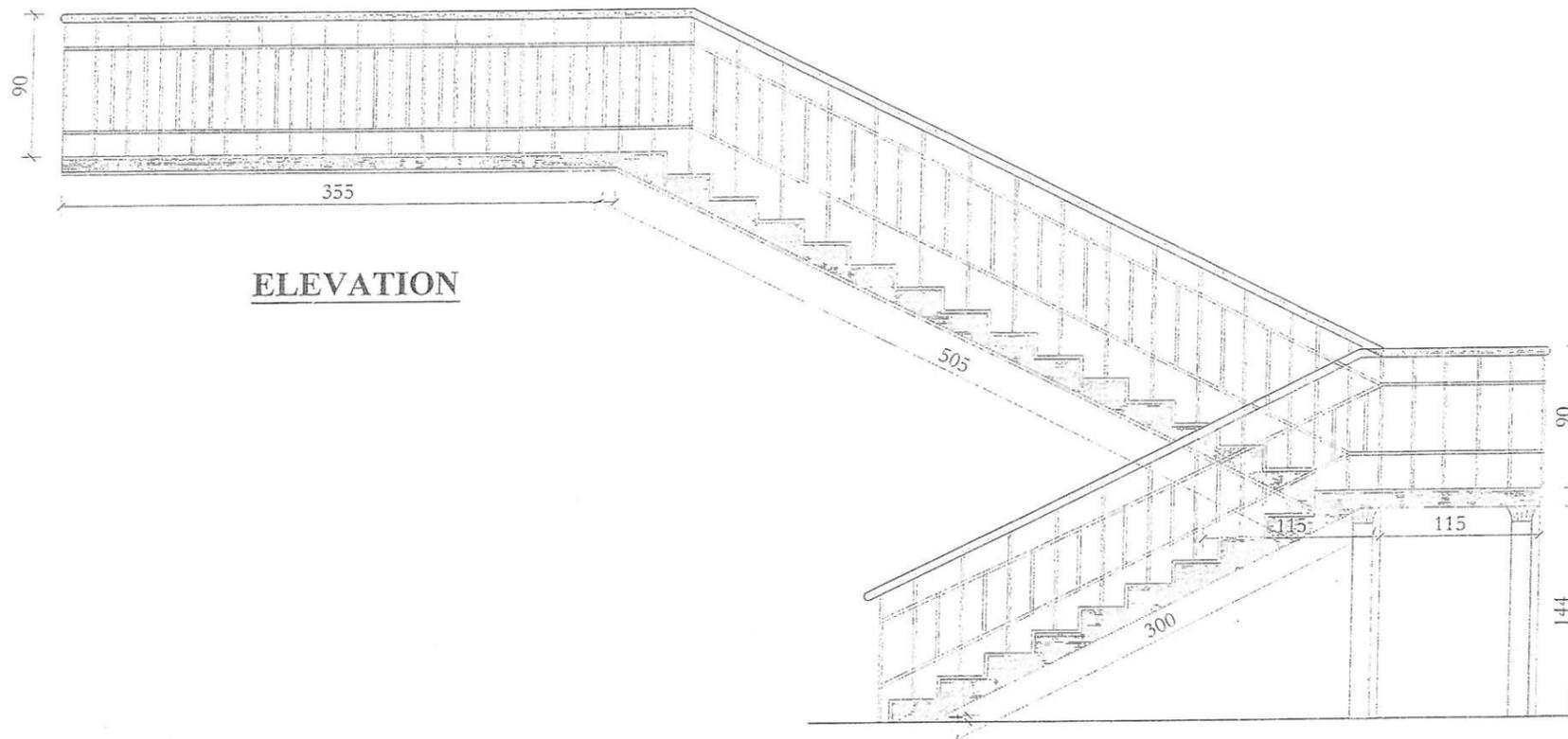
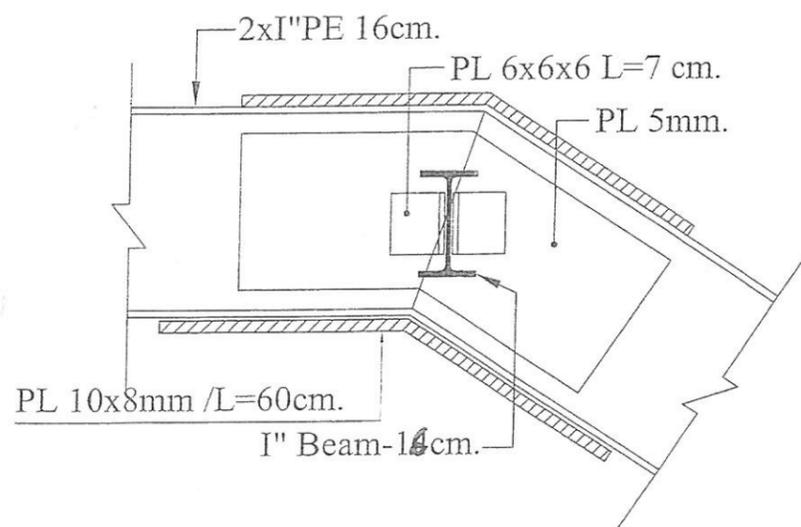
Detail-3



Detail-4



Detail-1



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH FARAH	APPROVED Date/Mon	ENG.AB.MOMEN RAD	TYPE	ARCHITECTURE	PROJECT NAME
CHECKED BY	ARCH SAID RASOOL	SCALE	AS SHOWN (A3)	CODE	24 24	14+2 CLASS Room School B.Brick.R.c.c.I SHEET ROOF.
TECH-APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2015	Sheet		DRAWING TITLE STAIR DETAIL

LIST OF DRAWINGS:

- A01 COVER SHEET AND GENERAL NOTES.
 A02 TOPE VIEWS AND ELEVATIONS OF CHAIR AND DESK.
 A03 SECTION AND ELEVATION OF CHAIR AND DESK.
 A04 SIZES AND DETAIL OF PLANKS (WOODEN BOARDS)

نوت برای ساخت چوکی و میز:-

۱- در پایه های چوکی ها و میز ها باید از فایبر کیفیت عالی استفاده گردد و توسط سریش مخصوص آهن و فایبر در داخل پایه بصورت فنی آن نصب گردد.

۲- قسمتی بالایی تخته ها بشکل دایره به اندازه قطر و عمق سری پیچ حک گردد تا بعد از پیچ نمودن پیچ با تخته هم سطح گردد.

۳-تخته ها باید توسط پیچهای فولادی به فرم فلزی بشکل فنی آن محکم یا پیچ گردند.

۴- قبل از انجام امورات رنگمالی باید مطمئن شد که تماما پیچ ها ،نت ها و جابنت های تخته و فلزات بشکل فنی آن محکم گردیده و قسمت های حک شده پیچها توسط گلگل پرکاری و صیقل گردیده است.

۵- تمامی اندازه ها و سایز های فیرما نباید کمتر از گیج ۱۸ ضخامت و ۳۰/۳۰ میلیمتر باشد به جز از آهن قطی مانند لته دار که به ضخامت گیج ۱۸ و ۳۰/۳۰/۴۵ میلیمتر است.

۶- از تخته چوب های که برای ساخت چوکی و میز استفاده میگردد نباید کمتر از ضخامت ۳۰ میلیمتر باشد.

۷- از چوب که استفاده میگردد چوب خاردر جه اول باکیفیت عالی و کاملاً خشکیده باشد.

۸- یک قلم ضد زنگ را بالای چوکات های فلزی البته که قبل از نصب تخته ها استعمال شود .

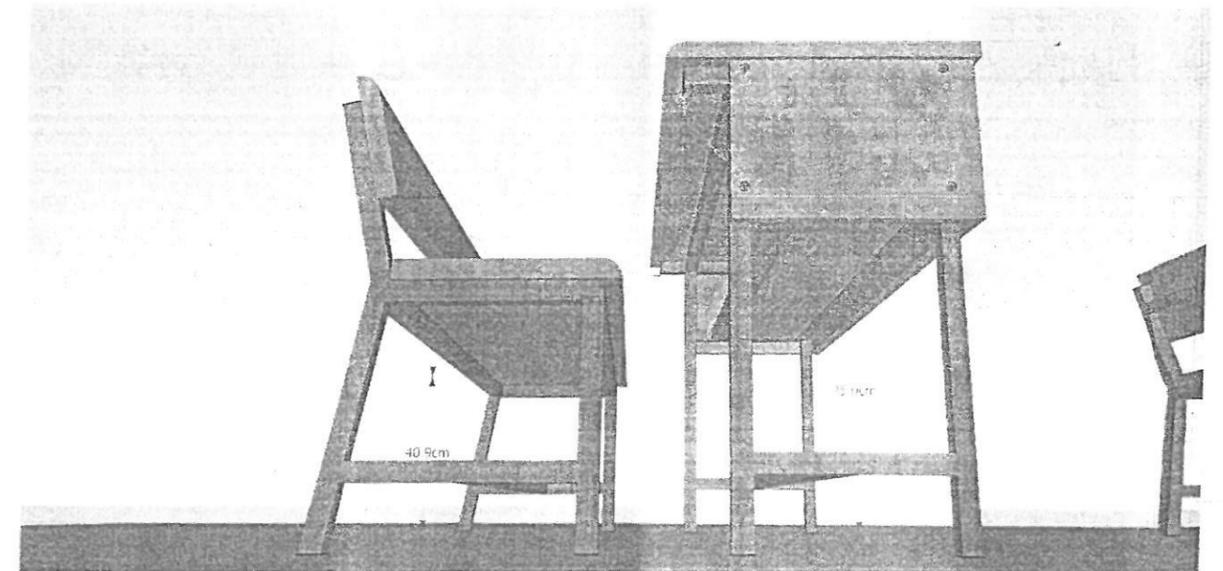
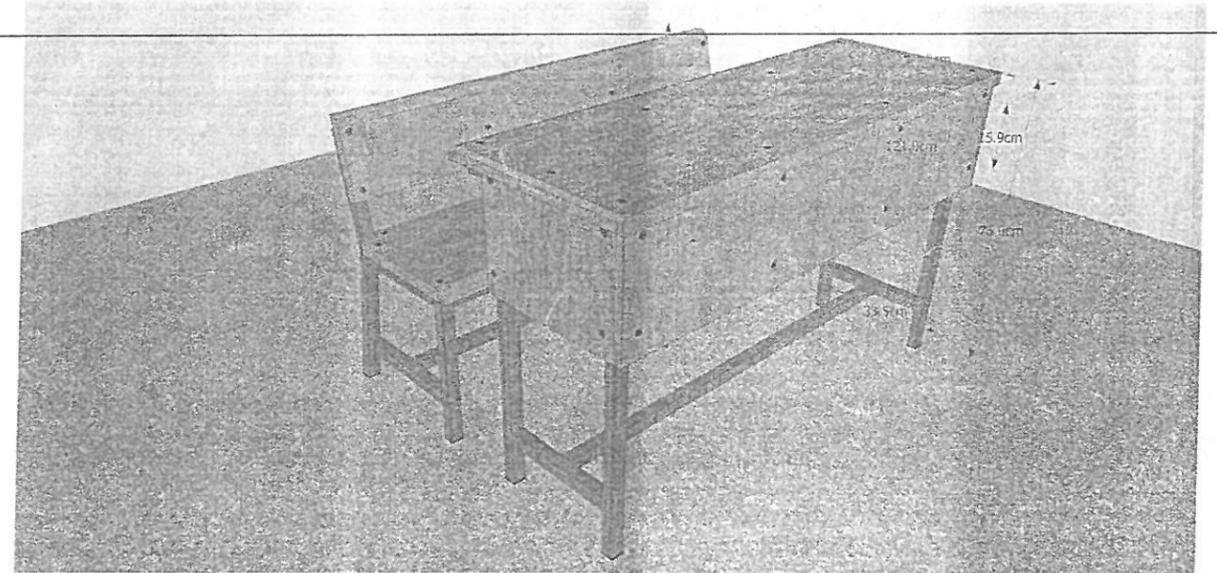
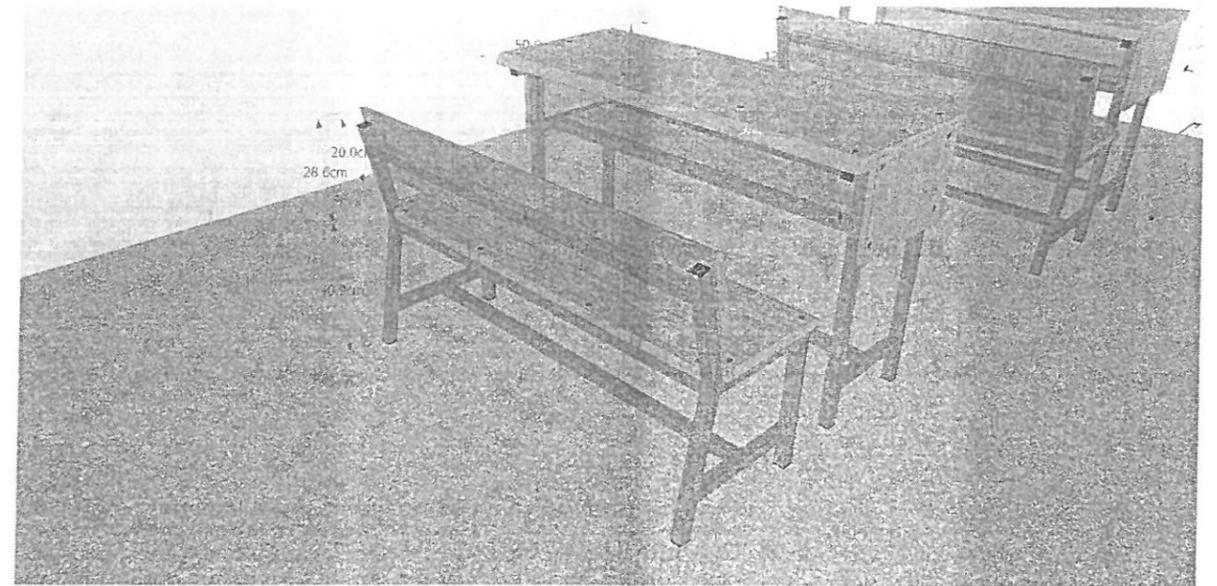
۹- بعد از خشکین کامل : پالش صفر و یک قلم ورنس را بالای تخته ها و ضدزنگ را روی فلزات استعمال گردد.

۱۰- جابنت های تخته ها باید بشکل چال وفاق توسط چسب چوب مطابق نقشه باهم محکم گردند.

۱۱- شرکت قراردادی مکلف است که قبل از انتقال هر نوع فرنیچر به ساحه جهت تا نیدی نمونه به تیم انجینری مراجعه نماید وبعد از گرفتن تائیدی تیم انجینری ریاست معارف ولایت مربوطه ویا ریاست انکشاف تعمیرات میتواند فرنیچر را به ساحه مورد نیاز انتقال دهد، در غیر آن قابل قبول نیست.

GENERAL NOTE:

- 1-BEST QUALITY FIBER FOOTING TO BE INSTALLED FOR THE FOOTING AND TOPE FRAME WITH SPECIAL GLUE.
- 2-CIRCLE ERASURE TOPE SIDE OF TIMBER FOR SCREW ACCORDING TO THE HEAD OF SCREW DEPTH AND DIA.
- 3-SCREW PLANKS WITH STAINLESS STEEL SCREWS TO THE STEEL FRAME THE SCREW OR BOLT HEAD SHOULD BE FLASH TO THE PLANK SURFACE.
- 4-BEFORE PAINTING MAKE SURE ALL SCREWS AND JOINT ARE PROPERLY FIXED THEN USE OILY FILLER WHERE THE SCREWS ARE THEN APPLY PRIMER PAINTING.
- 5-ALL STEEL FRAMES THICKNESS AND SIZES SHOULD NOT BE LESS THEN GAGE 18 (30X30MM) AND NOSED BOX FRAME GAGE 18 (30X45MM)
- 6-ALL PLANKS (WOODEN BOARDS) SHOULD NOT BE LESS THEN 30MM THICKNESS UNLESS ITS SHOWN IN THE DWG.
- 7-ALL WOODEN BOARDS SHOULD BE MADE FROM KHAR WOOD, BEST QUALITY AND DRY.
- 8-AFTER FINISHING ALL WELDING, CARPENTRY WORKS AND FILLINGS APPLY ONE COAT ANTI RUST PAIN TO THE STEEL FRAMES .
- 9-AFTER COMPLETELY DRYING ANTI RUST ,PRIMER COAT ,ZERO POLISH AND ONE LAYER VARNISH TO STEEL FRAMES AND WOODEN BOARD .
- 9-WOODEN PLANKS SHOULD BE JOINT WITH USING GLUE AND SCREW ACCORDING TO THE DETAIL DRAWING.



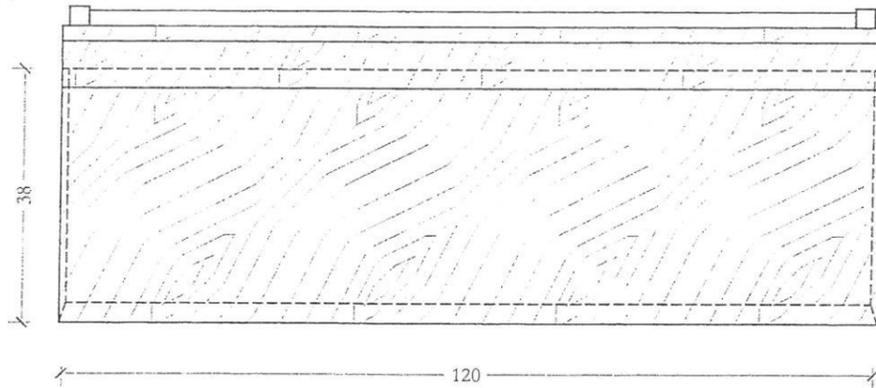
MINISTRY OF EDUCATION
 DEPARTMENT OF CONTRACTION



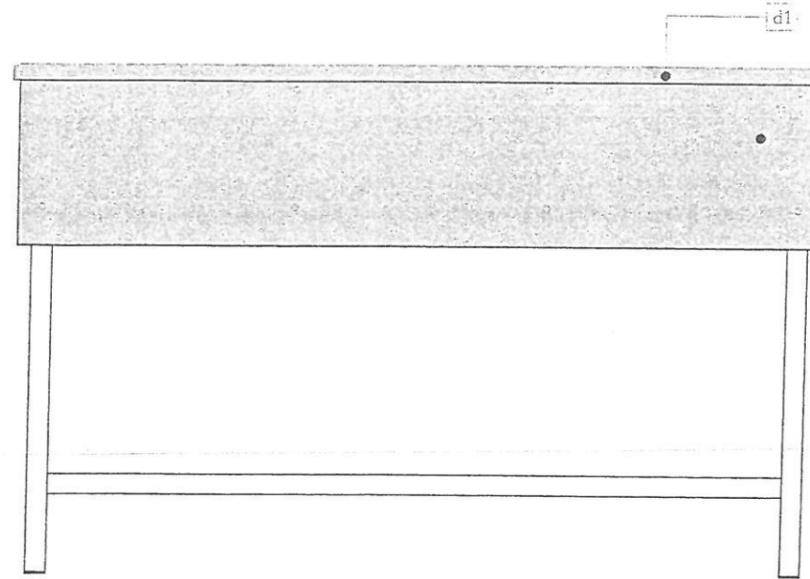
STANDARD SCHOOL DESIGN
 IN AFGHANISTAN

ARCHITECT/DESIGN	ARC:VA WAND V	APPROVED:Doc/Moe	ENG:AB.MOM.N.RAAD	TYPE
CHECKED BY	GA S SAF	SCALE	AS SHOWN (A3)	SHEET No
TECH-APPROVED BY	S. RASUL AFGHAN	DATE	28.1.2014	

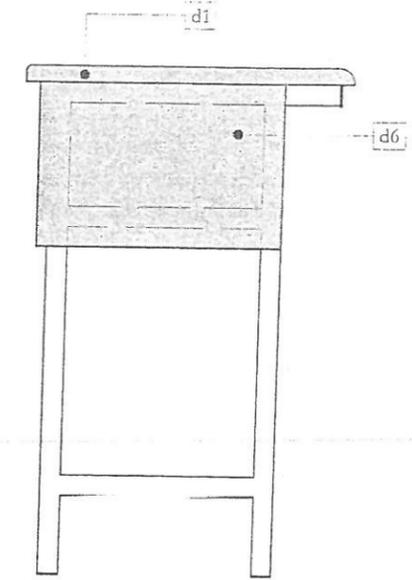
PROJECT NAME STANDARD CHAIR & DESK DESIGN FOR SCHOOL
 DRAWING TITLE COVER SHEET AND GENERAL NOTES



نمای فوقانی چوکی
TOP VIEW OF CHAIR



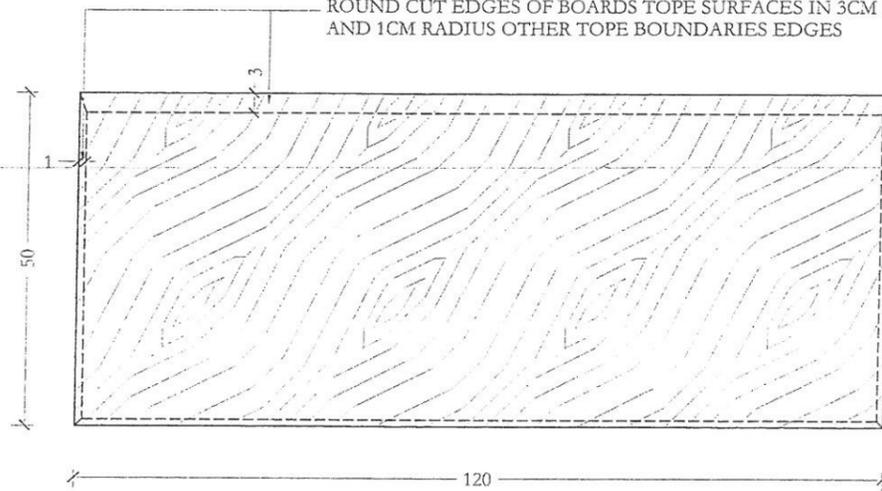
نمای عقبی میز
BACK ELEVATION OF DESK



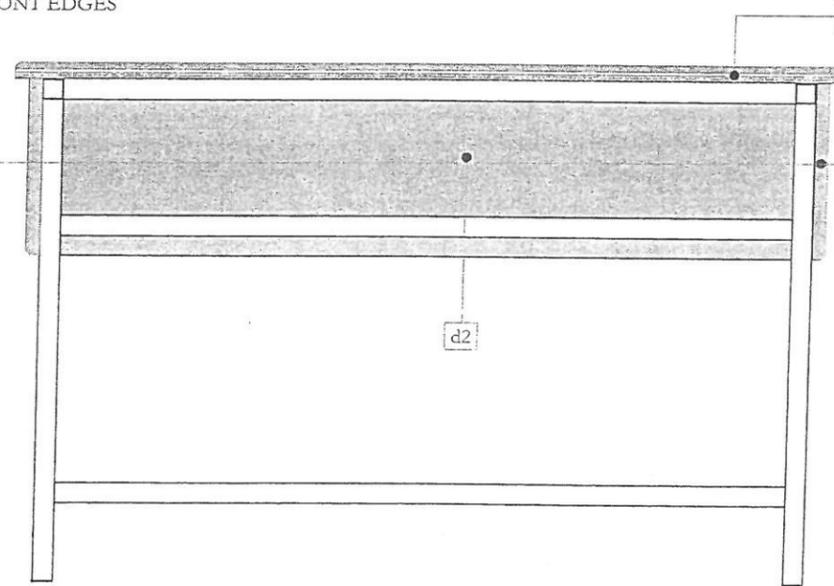
نمای جانبی میز
SIDE ELEVATION OF DESK

نیشهای محیط سطح بالای تخته ها باید بشکل منور به شعاع ۳ سانتی متر قسمت مقابل تخته ها و قسمت‌های دیگر محیط تخته ها را به شعاع سانتی ۱ متر منور گردد.

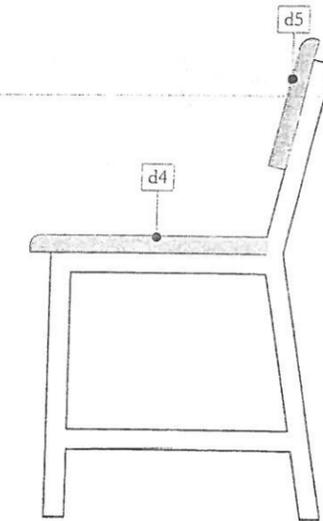
ROUND CUT EDGES OF BOARDS TOPE SURFACES IN 3CM RADIUS THE FRONT EDGES AND 1CM RADIUS OTHER TOPE BOUNDARIES EDGES



نمای فوقانی میز
TOP VIEW OF DESK



نمای مقابل میز
FRONT ELEVATION OF DESK



نمای جانبی چوکی
SIDE ELEVATION OF CHAIR



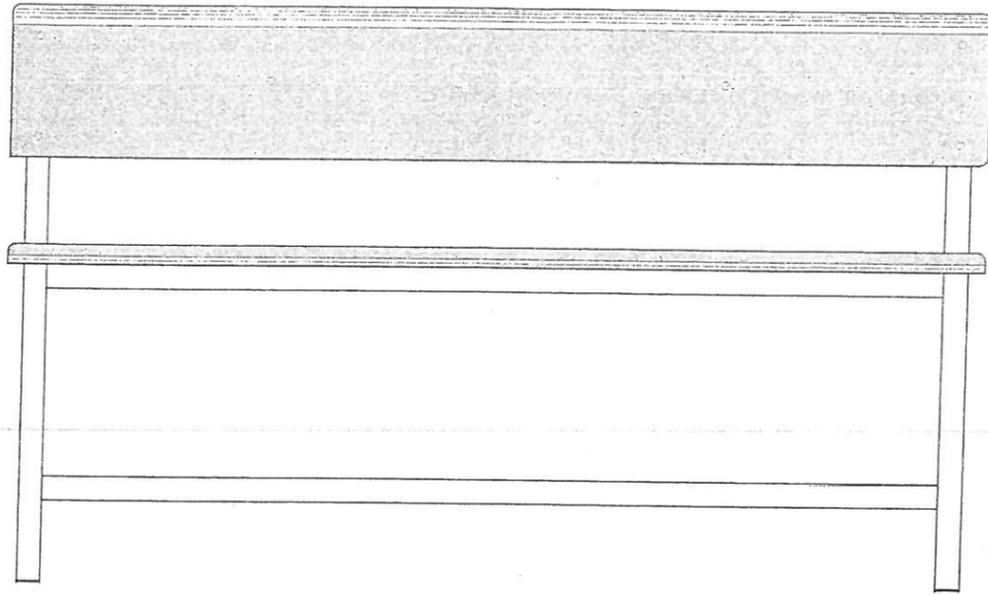
MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

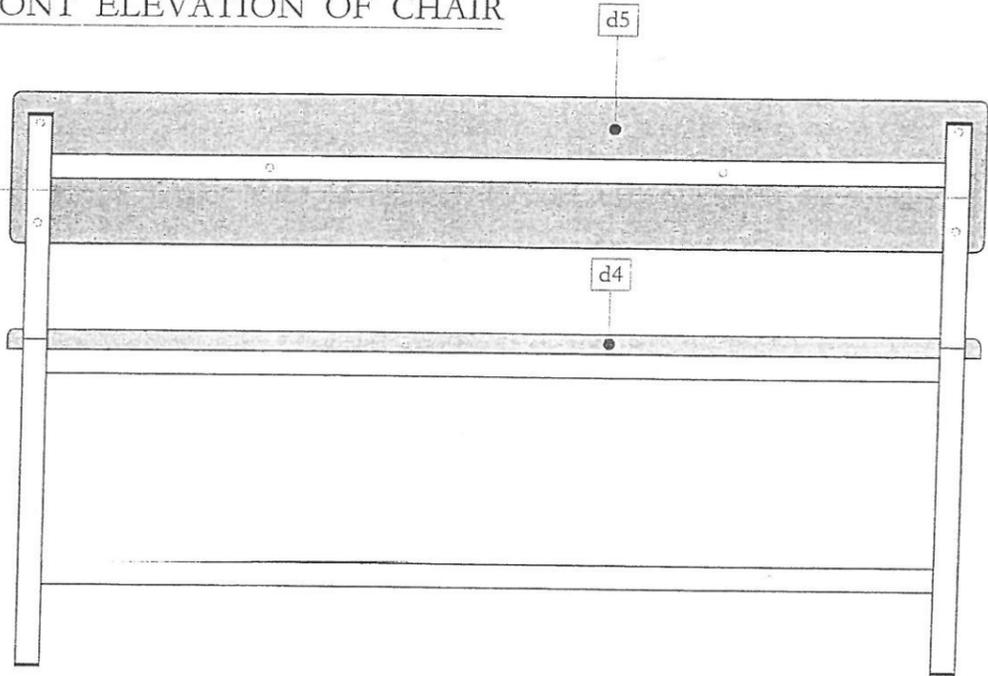
ARCHITECT/DESIGN	ARC.MAIWAND.M	APPROVED Doc/Moe	ENG AB MOMIN RAAD	TYPE	A02
CHECKED BY	QAIS SAFI	SCALE	AS SHOWN (A3)	SHEET No	2
TECH-APPROVED BY	S. RASUL AFGHAN	DATE	28.1.2014		

PROJECT NAME	STANDARD CHAIR & DESK DESIGN FOR SCHOOL
DRAWING TITLE	PLANS AND ELEVATIONS OF CHAIR & DESK.



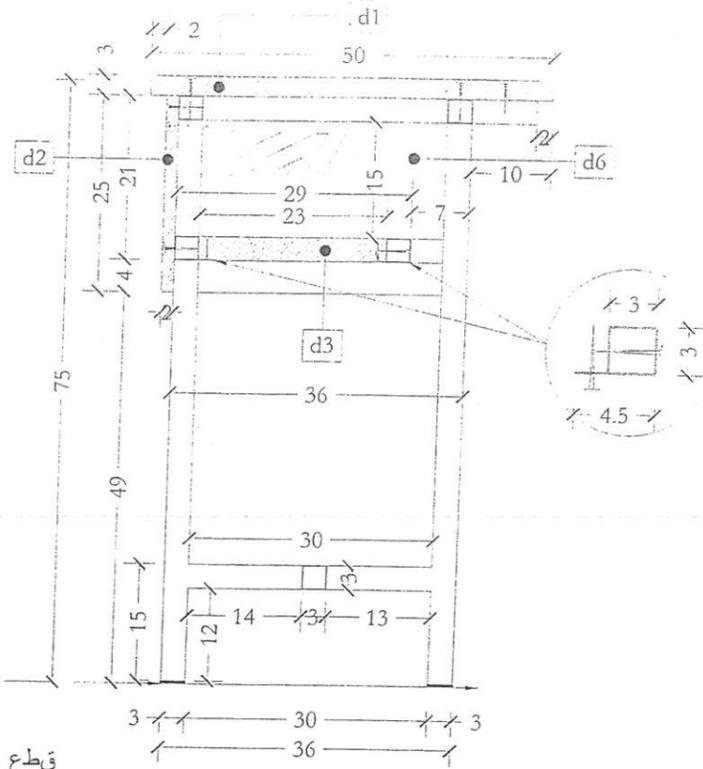
نمای مقابل چوکی

FRONT ELEVATION OF CHAIR



نمای عقبی چوکی

BACK ELEVATION OF CHAIR



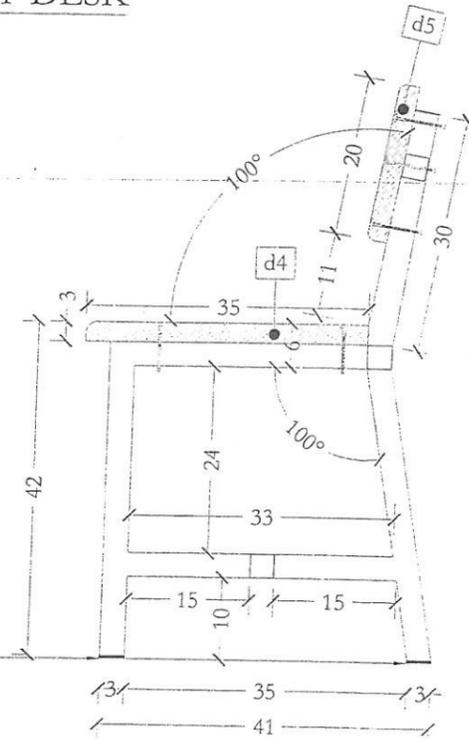
قطع عرضی میز
SECTION OF DESK

در پایه ها از فایبر پایه کیفیت عالی استفاده گردد و توسط چسب مخصوص نصب گردد

FIBER FOOTINGS
INSTALL WITH GLUE
BEST QUALITY

قطع عرضی چوکی

SECTION OF CHAIR



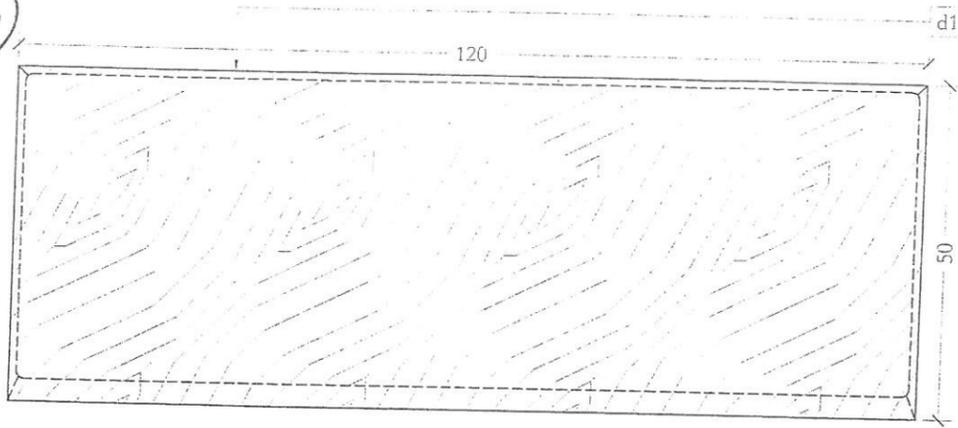
MINISTRY OF EDUCATION
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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

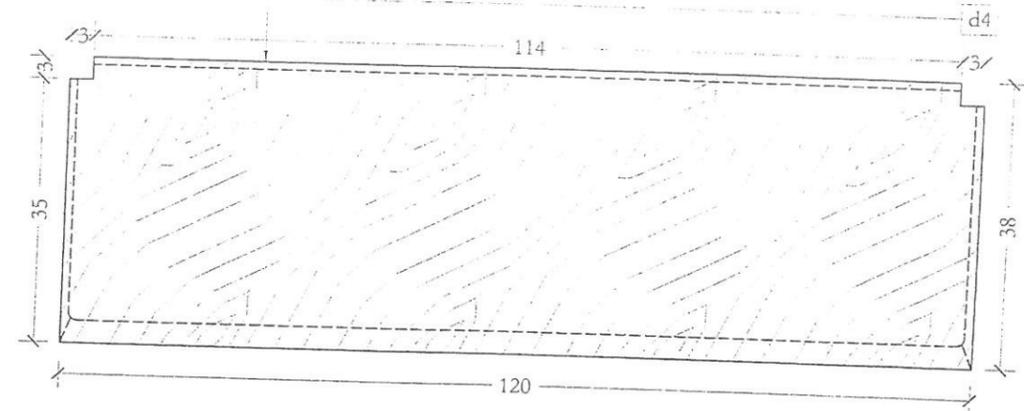
ARCHITECT/DESIGN	ARC-MAIWAND M	APPROVED:Doc/Moe	ENG-AB.MOM/IN RAAD	TYPE	A03
CHECKED BY	GAIS SAFI	SCALE	AS SHOWN (A3)	SHEET No	3
TECH-APPROVED BY	S. HASUL AFGHAN	DATE	28.1.2014		

PROJECT NAME	STANDARD CHAIR & DESK DESIGN FOR SCHOOL
DRAWING TITLE	ELEVATION & SECTIONS



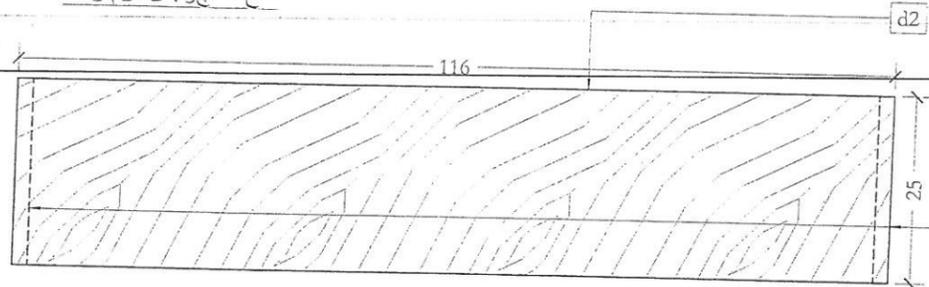
PLANK D1 DETAIL

تخته چوبی شماره ۱



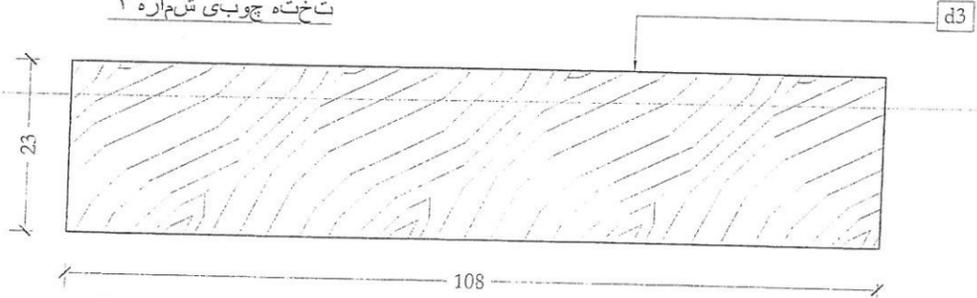
PLANK D4 DETAIL

تخته چوبی شماره ۴



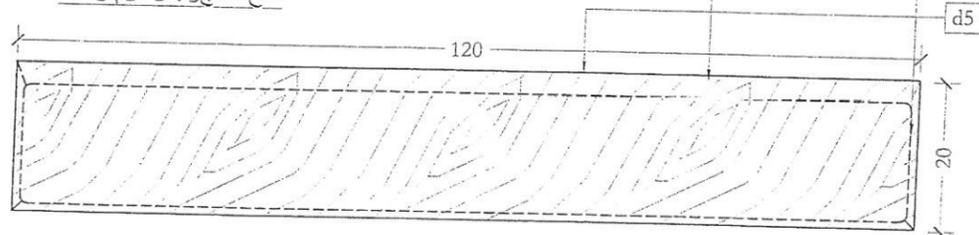
PLANK D2 DETAIL

تخته چوبی شماره ۲



PLANK D3 DETAIL

تخته چوبی شماره ۳

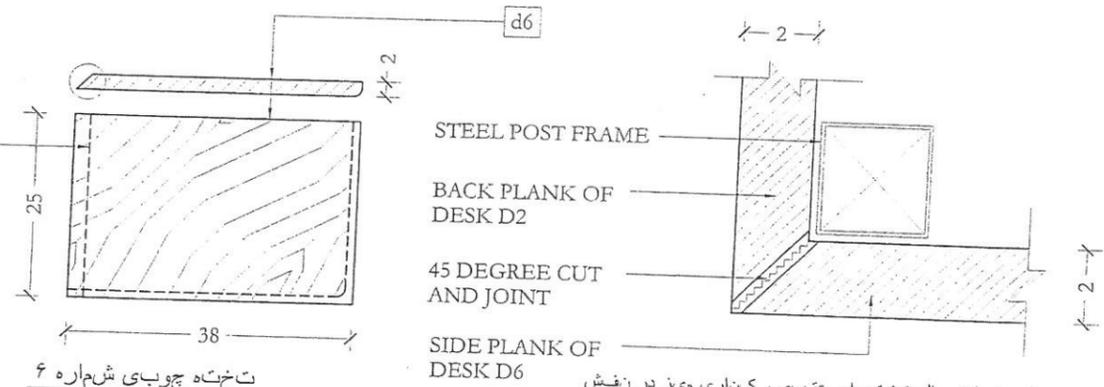


PLANK D5 DETAIL

تخته چوبی شماره ۵

CUT ENDS AS SHOWN
IN 45 DEGREE

قسمت های تخته ها که
نشانی گرفته شده به زاویه
۴۵ درجه قطع کردند



تخته چوبی شماره ۴

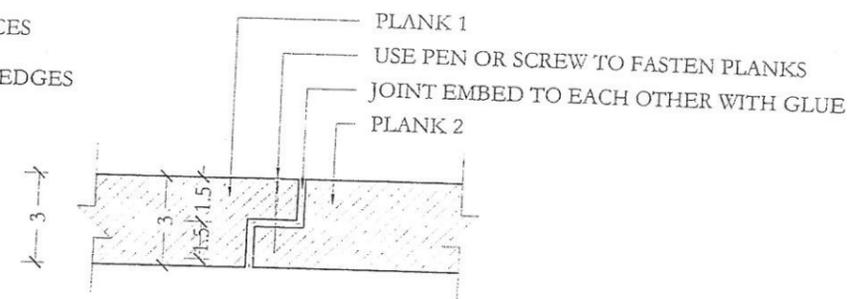
SIDE PLANK D6 DETAIL

SIDE AND BACK
PLANKS JOINT DETAIL

طریقه اتصال تخته های چوبی و کناری میز در نقش

نشیبای محیط سطح بالای تخته ها باید به شکل منور به شعاع ۳ سانتی متر قسمت مقابل
تخته ها و قسمتهای دیگر محیط تخته ها را به شعاع سانتی ۱ متر منور کردند.

ROUND CUT EDGES OF BOARDS TOPE SURFACES
IN 3CM RADIUS THE FRONT EDGES
AND 1CM RADIUS OTHER TOPE BOUNDARIES EDGES



PLANKS JOINT METHOD DETAIL

طریقه اتصال تخته ها



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARC-MAIWAND M	APPROVED: Doc/Moe	ENG-AB MOMIN RAAD	TYPE	A04
CHECKED BY	QAIS SAFI	SCALE	AS SHOWN (A3)	SHEET No	2
TECH. APPROVED BY	S. HASAN RAHMAN	DATE	26.1.2014		

PROJECT NAME	STANDARD CHAIR & DESK DESIGN FOR SCHOOL
DRAWING TITLE	PLANKS SIZES AND PLANKS JOINT DETAIL

NOTE:

- 1-All dimensions are in cm
- 2-Foundation has been checked in bearing capacity of soil 1.5 kg/cm^2 , if the bearing capacity of soil is less than 1.5 kg/cm^2 the site Engineer should contact with design Engineer.
- 3-All R.C.C mark should be 200 (1:1.5:3) and P.C.C (1:2:4) should be 150.
- 4-Sand and gravel should be clean of dust.
- 5-Concrete should be vibrated and watered.
- 6-The mark of brick for the shear wall should not be less 70 kg/cm^2 .
- 7-Before concrete the shuttering plan and reinforcement plan must be checked by design engineer.
- 8-The steel bar is class A-II ($R_a=2700 \text{ kg/cm}^2$)
- 9-During the concrete working a cubic sample should be taken.
- 10-Cement mortar ratio which use for brick shear wall is 1:5
- 11-Load bearing wall in this building are working as shear wall and should be worked before shuttering work and placement of concrete.

تبصره:

- 1- مارک کانکریت سیخدار در سلب، گادر، پایه ها و تهداب (M-200) با تناسب (1:1.5:3) استفاده شود
- 2- مارک کانکریت بدون سیخ با تناسب (1:2:4) (M-150) استفاده شود
- 3- در تعمیر مذکور از سیخ های با مقاومت سنجشی (2100 kg/cm^2) درگژدمکها و با مقاومت سنجشی ($R=2700 \text{ kg/cm}^2$) در عناصر انحنایی استفاده شده است.
- 4- برای خشت کاری و سنگکاری از مصالح سمنت و ریگ با تناسب (1:5) استفاده شود.
- 5- پلستر دیوارهای داخلی و خارجی از مصالح سمنت و ریگ با مارک (M-300) با تناسب (1:3) استفاده شود. 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 پروژوی خود را حاصل نماید.
- 6- قالب ها قبل از استفاده باید خوب چرب کاری شود.
- 7- خشت ها قبل از استفاده باید خوب مرطوب گردودارای کیفیت عالی باشد.
- 8- سیخ های مورد استفاده باید عاری از زنگ زده گی باشد.
- 9- ریگ و جغل قبل از استفاده باید شستشو گردد.
- 10- آب های مورد استفاده برای مخلوط کانکریت شور و نمکی نباشد.
- 11- در مخلوط کانکریت جغل، کرش نوع دریایی یا سورت های الی قطر 2.5 سانتی متر استفاده گردد و از جغل کرش نوع صخره ای یا کوهی استفاده نشود.
- 12- حین کانکریت ریزی و بیراتور استفاده گردد.
- 13- قالب های عناصر انحنایی به هیچ وجه قبل از 18 روز دور نگرند.
- 14- در حصه تعدیل نقشه یا انجنیر دیزاین کننده مشورده گردد.
- 15- پروسه کار پروژه از شروع تا ختم توسط انجنیر ساختمان مراقبت گردد.
- 16- مقاومت خاک (1.5 cm/gk^2) برای دیزاین تهداب ها در نظر گرفته شده است.

مقاومت فشاری مجاز خاک (qall) براساس kg/cm^2
Bearing Capacity of Soil Based on (ACI)

Recommendatio	Limit	Specifications	Types of Soil
8	7-10	Very dense Compacted	Gravel, Gravel & Sand, Mix of Gravel & Stone جغل، جغل وریگ، مخلوط جغل و سنگ
6	5-7	Medium Course Compacted	
4	3-6	Loos Compacted	
4	4-6	Very dense Compacted	
3	3-4	Medium Course Compacted	Stiff Sand, Sand with a little Gravel ریگ سخت، ریگ با کمی جغل
2	2-3	Loos Compacted	
3	3-5	Very dense Compacted	Medium Stiff Sand, Sand with Mud or Clay ریگ با سختی متوسط، ریگ با لای یا پرز
2.5	2-4	Medium Course Compacted	
1.5	1-2	Loos Compacted	
3	3-4	Very dense Compacted	Uniform Sand, Sand with a little Mud or Clay ریگ یکدخت، ریگ با کمی جغل
2	2-3	Medium Course Compacted	
1.5	1-2	Loos Compacted	Uniform Clay, Clay with Sand or Mud رس یکدخت، ریگ با کمی جغل
4	3-6	Very Stiff	
2	1-3	Medium Siff	
0.5	0.5-1	Uncompacted	Mud, Sandy Mud or Clay لای، لای وریگی، پرزی
3	2-4	Very Stiff	
1.5	1-3	Medium Siff	
0.5	0.5-1	Uncompacted	

Prepared by: EN. S. Basharat, Abid

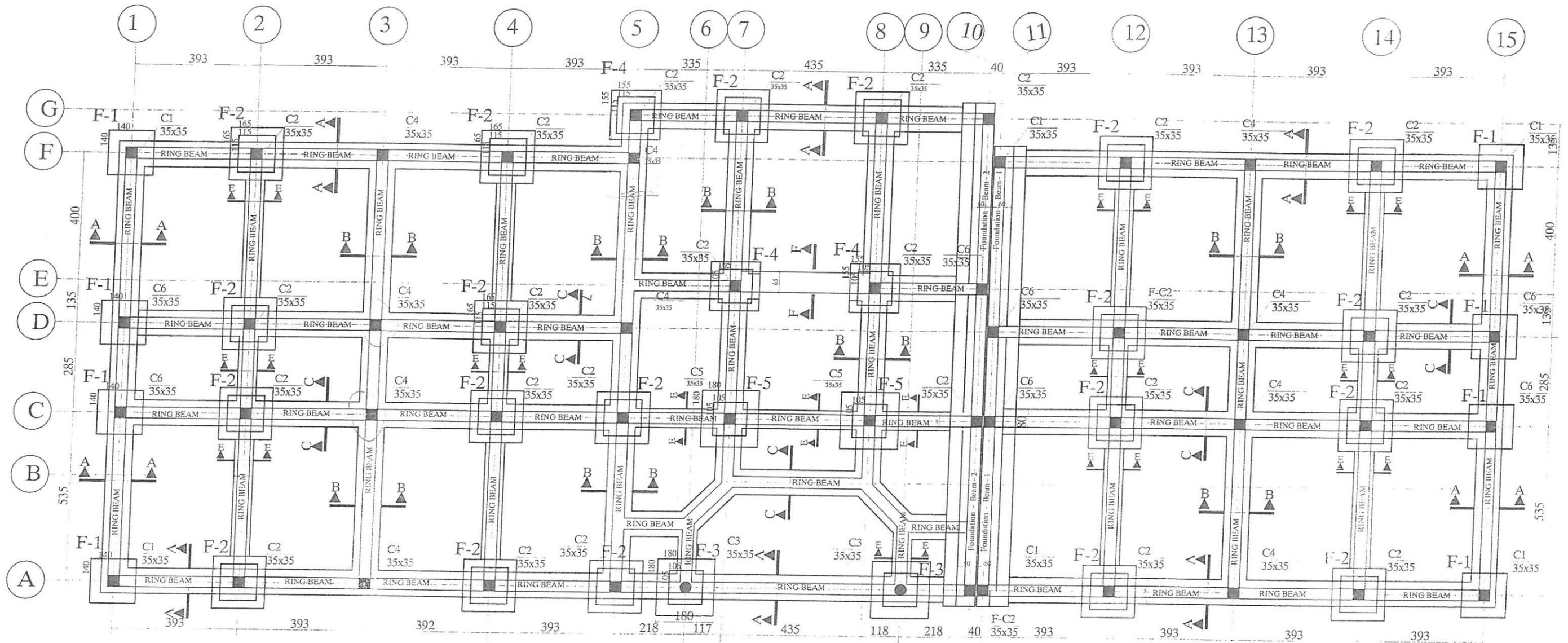


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STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT DESIGN	ENG.FARAH	APPROVED Doc/Moe	ENG.M.MOHMMEN RAD	DRAWINGTYPE	STRUCTURE	PROVINCE	
REV. DESIGN	ENG.FATIMAZEWARI	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	14 CLASS ROOM, B BRICK RCC I SHEET WITH COUMPUTER LAP AND LABORATORY
DATE APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015		1/26	DRAWING TITLE	FOUNDATION PLAN



COLUMN/FOUNDATION LAYOUT



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STANDARD SCHOOL DESIGN
AFGHANISTAN

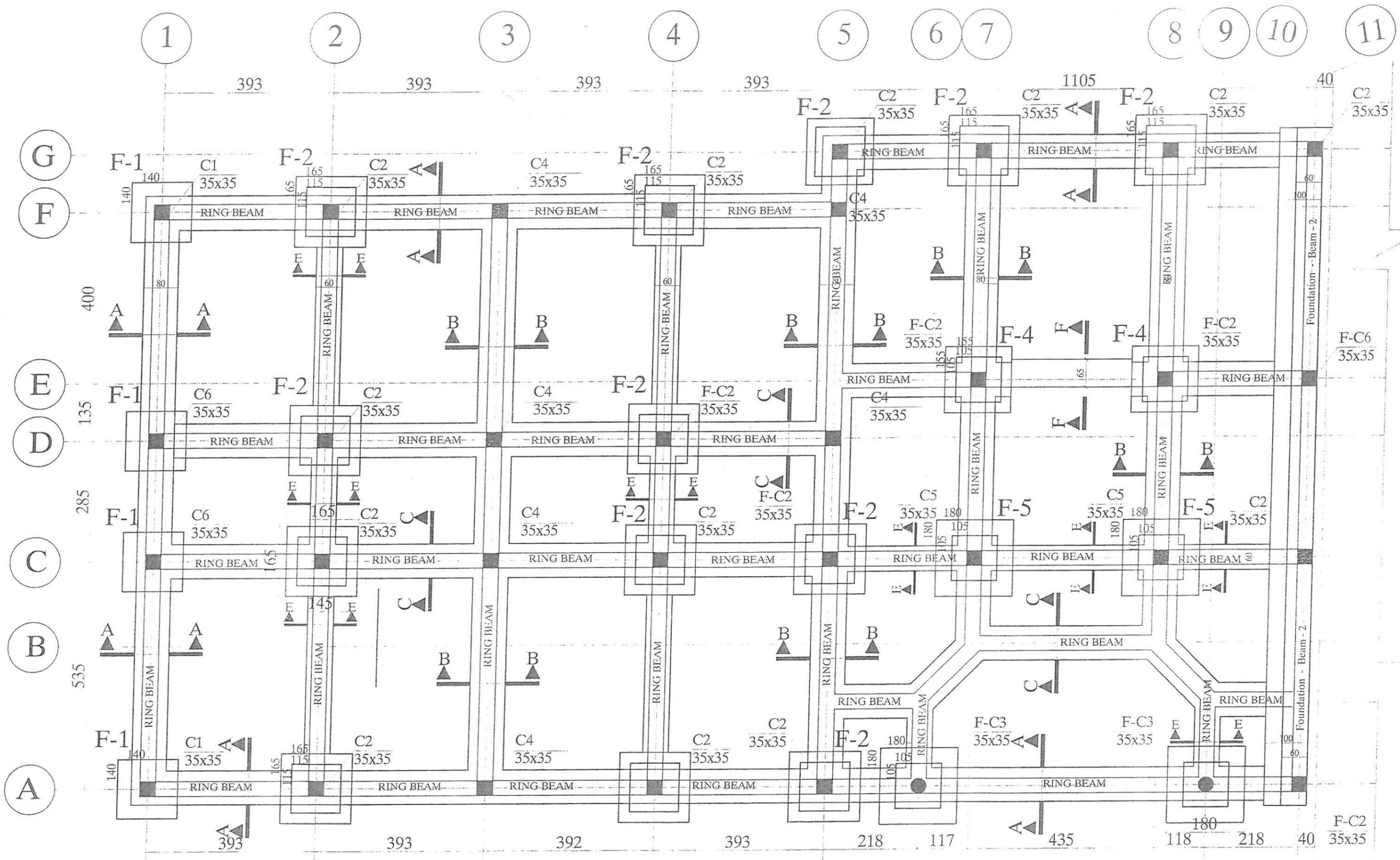
ARCHITECT/DESIGN: ENG. FARAH
RCC/DESIGN: ENG. FATIMA ZEWARI
TECH-APPROVED: ENG. AB. MATIN MAQOL

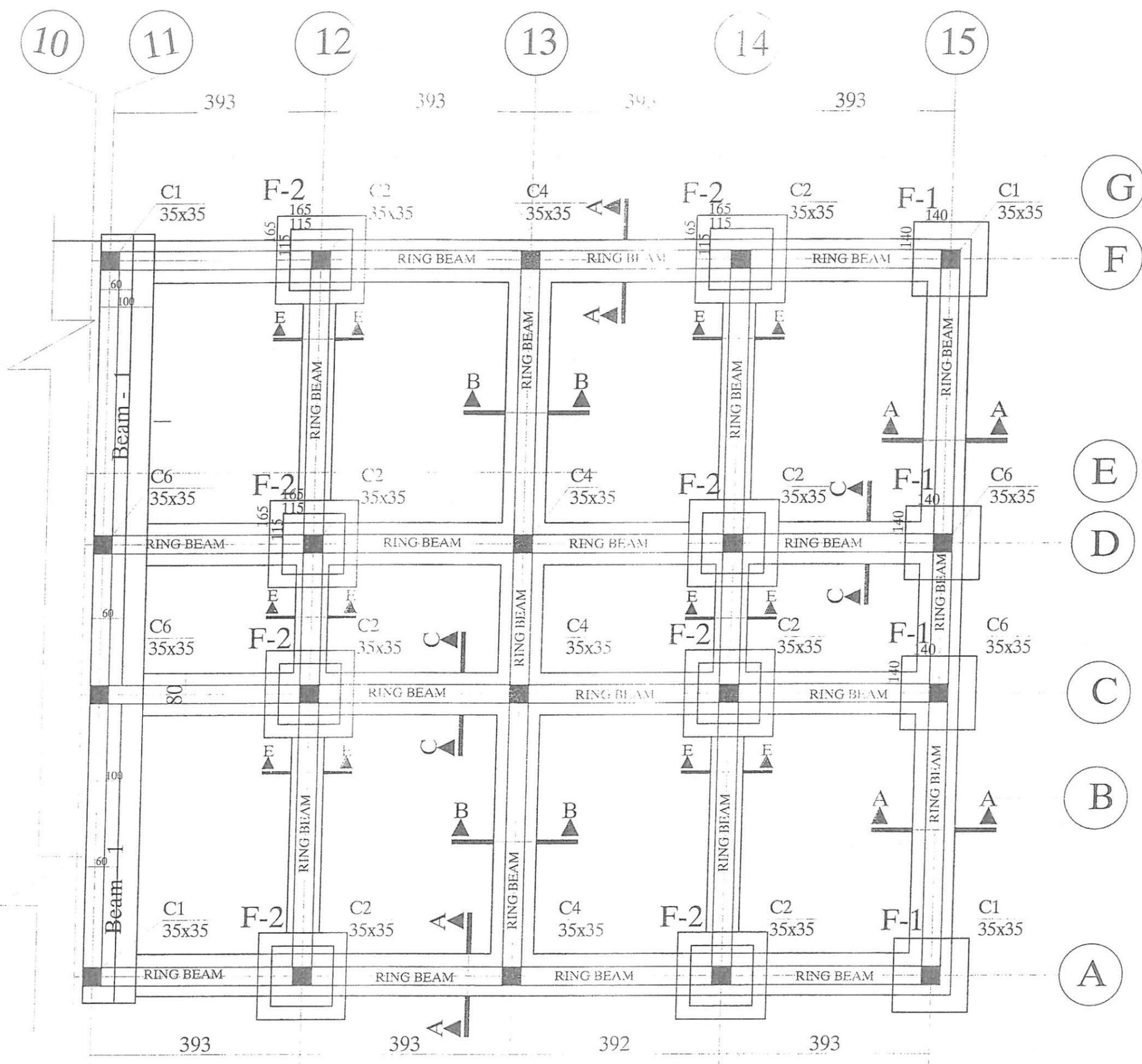
APPROVED: Dec/Mec: ENG. M. MOHMEN RAD
SCALE: AS SHOWN (A3)
DATE: 6. 4. 2015

DRAWING TYPE: STRUCTURE
CODE: S/2015/26
SHEET NO: 2/26

PROVINCE:
PROJECT NAME:
DRAWING TITLE:

A CLASS ROOM B BRICK RCC L SHEET WITH COMPUETER LAP
AND LABORATORY
FOUNDATION PLAN





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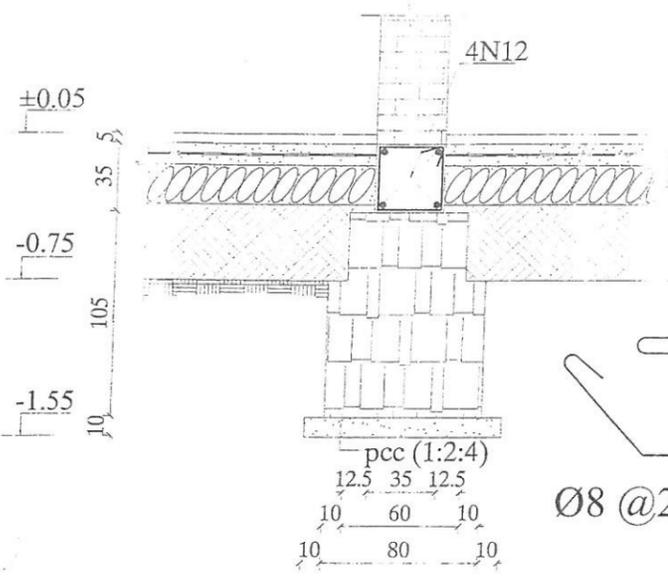
STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN: ENG.FARAH
RCC/DESIGN: ENG.FATIMA ZEPWARI
TECH-APPROVED BY: ENG.AB.MATIN MAQOL

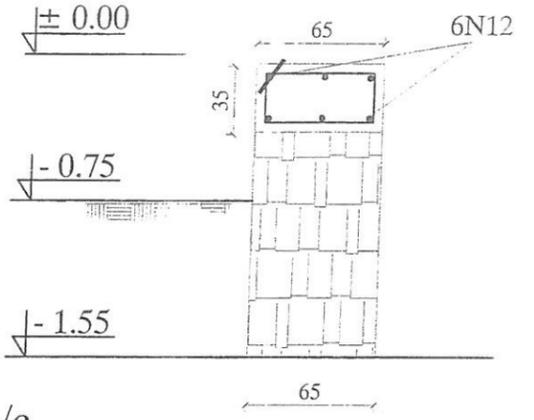
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SCALE: AS SHOWN (A3)
DATE: 6.4.2015

DRAWINGTYPE: STRUCTURE
SHEET NO: 4/26

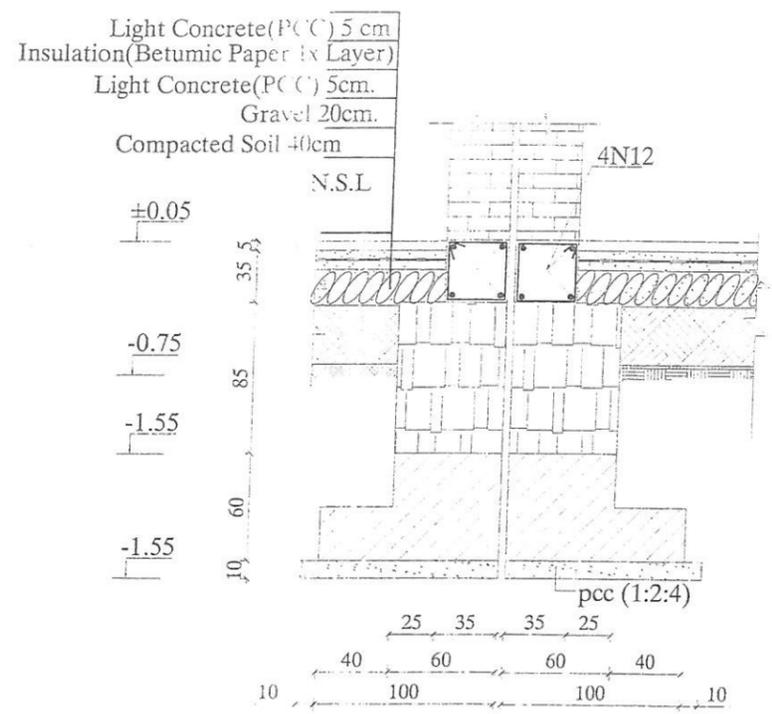
PROVINCE: _____
PROJECT NAME: 14 CLASS ROOM B BRICK RCC I SHEET WITH COMPUER LAP AND LABORATORY
DRAWING TITLE: FOUNDATION PLAN



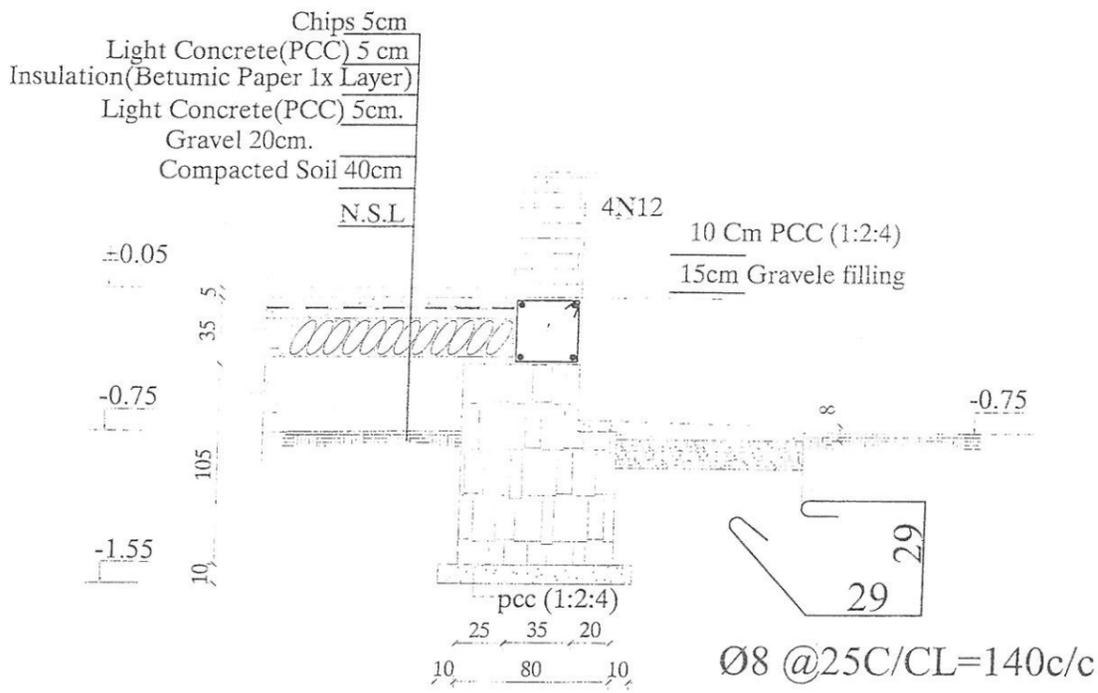
Section B:B



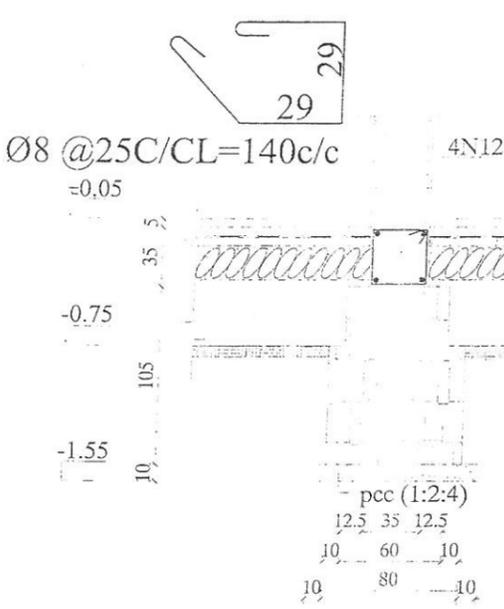
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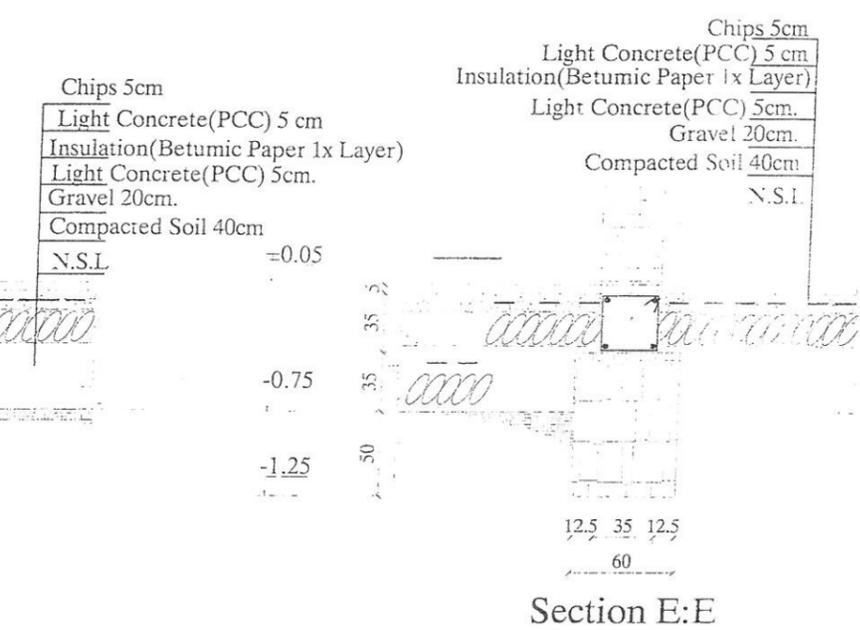
Section D:D



Section A:A



Section C:C



Section E:E

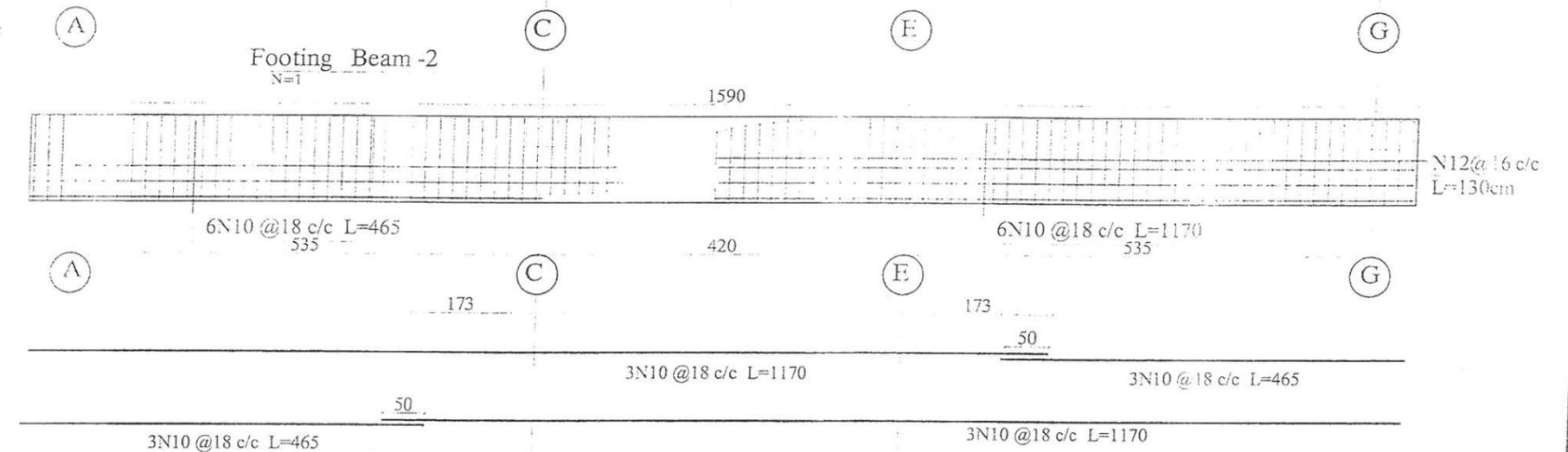
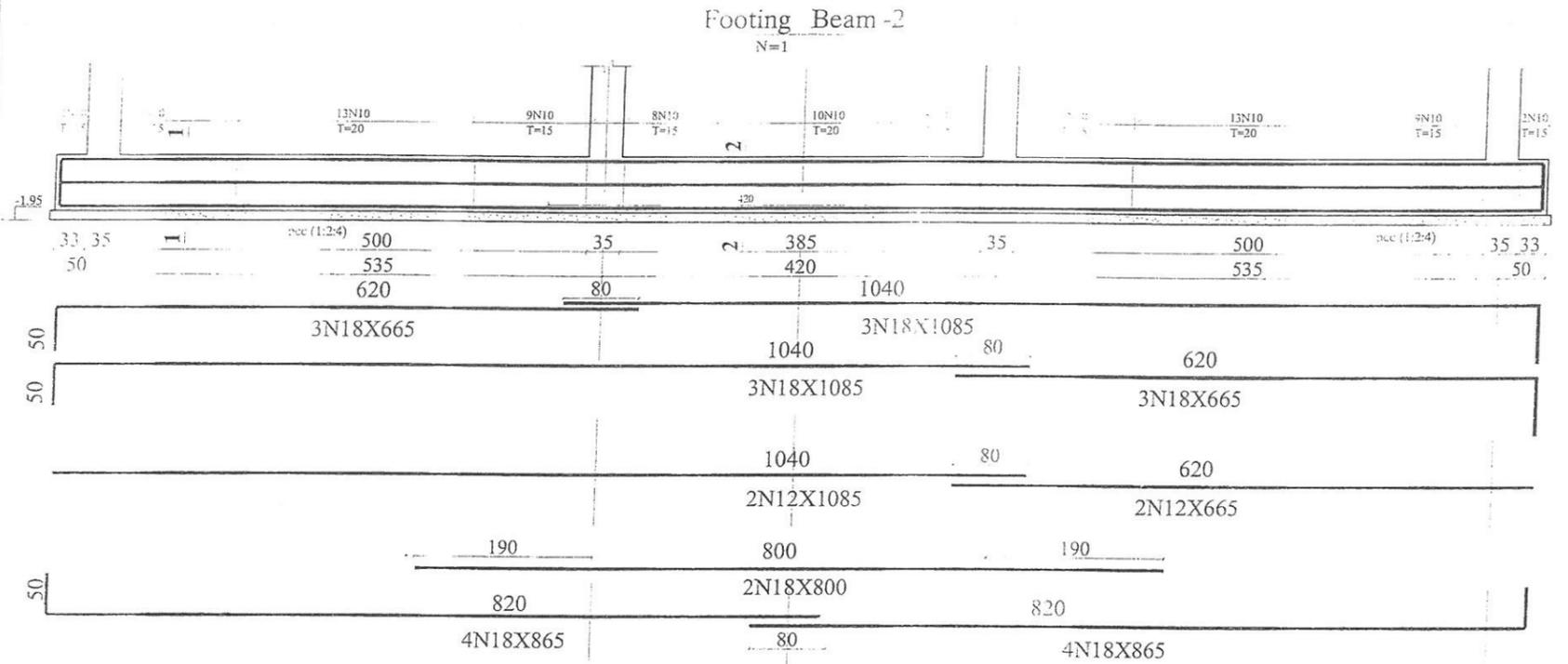
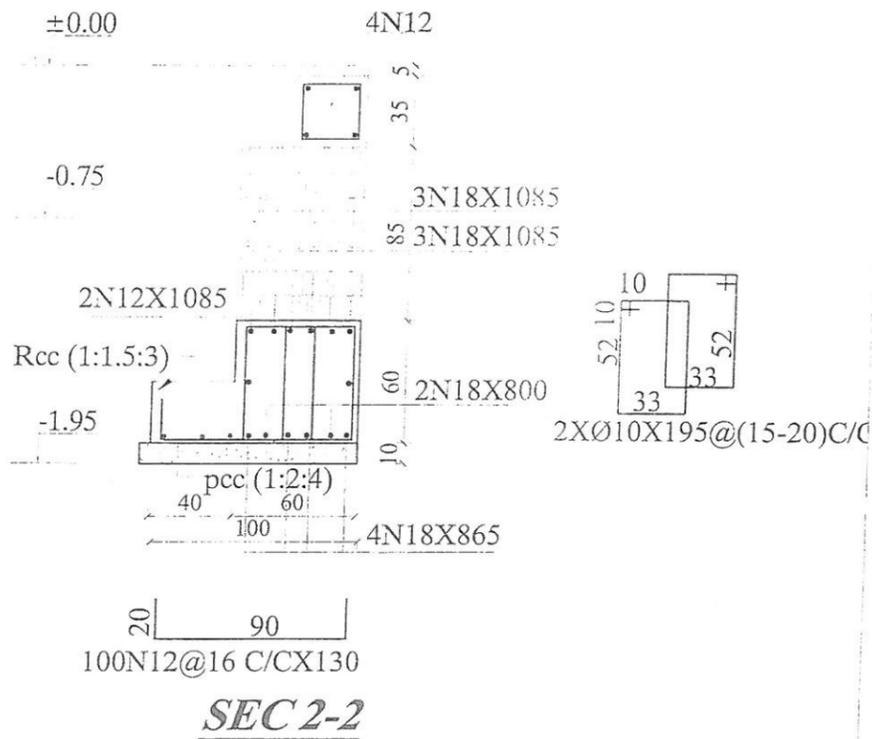
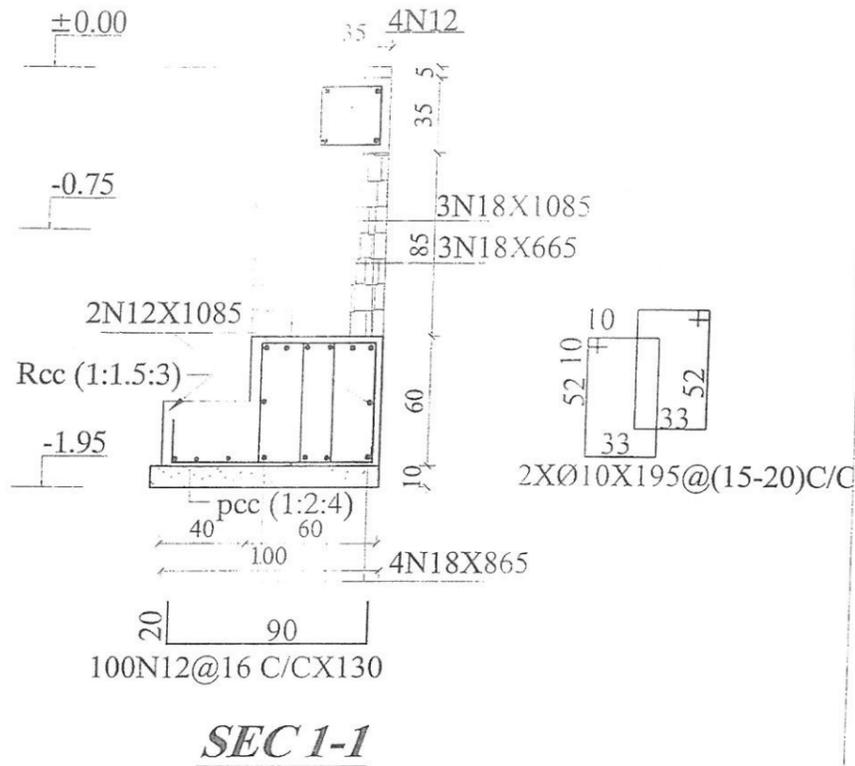


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STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG. FARAH	APPROVED: Doc/Moe	ENG. M. MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG. FATIMA ZEWARI	SCALE	AS SHOWN (A3)	CODE	SHEET NO.	PROJECT NAME	14 CLASS ROOM B BRICK RCC I SHEET WITH COMPUTER LAP AND LABORATORY
TECH. APPROVED	ENG. AB. MATIN MAQOL	DATE	6.4.2015		5 26	DRAWING TITLE	SECTION OF FOUNDATION

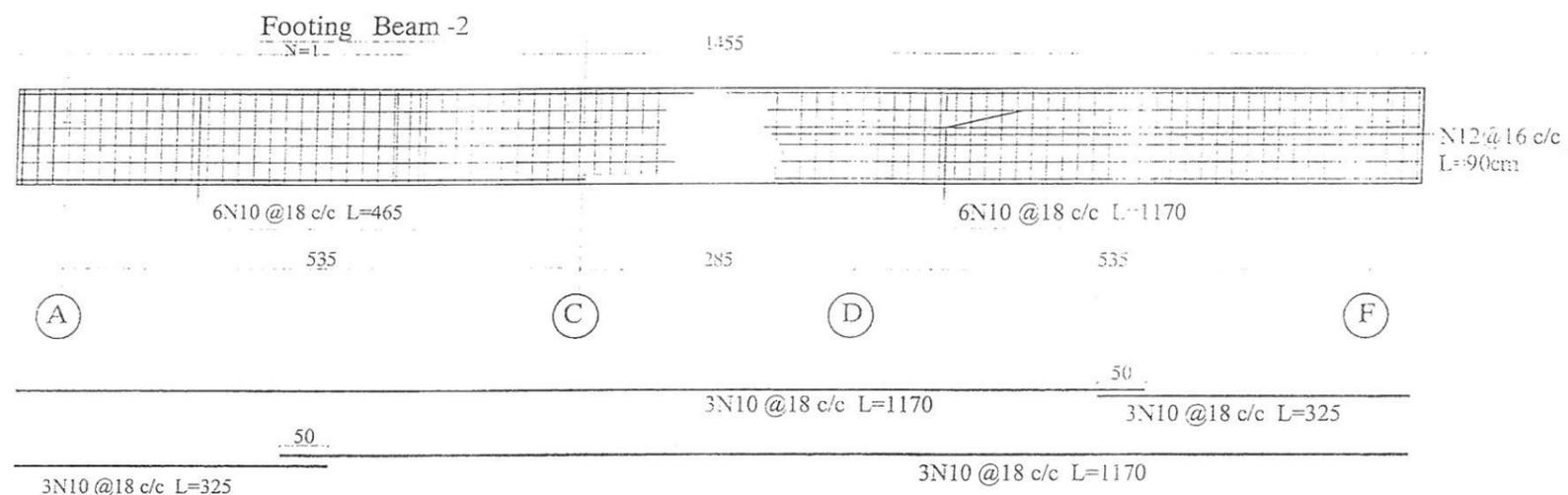
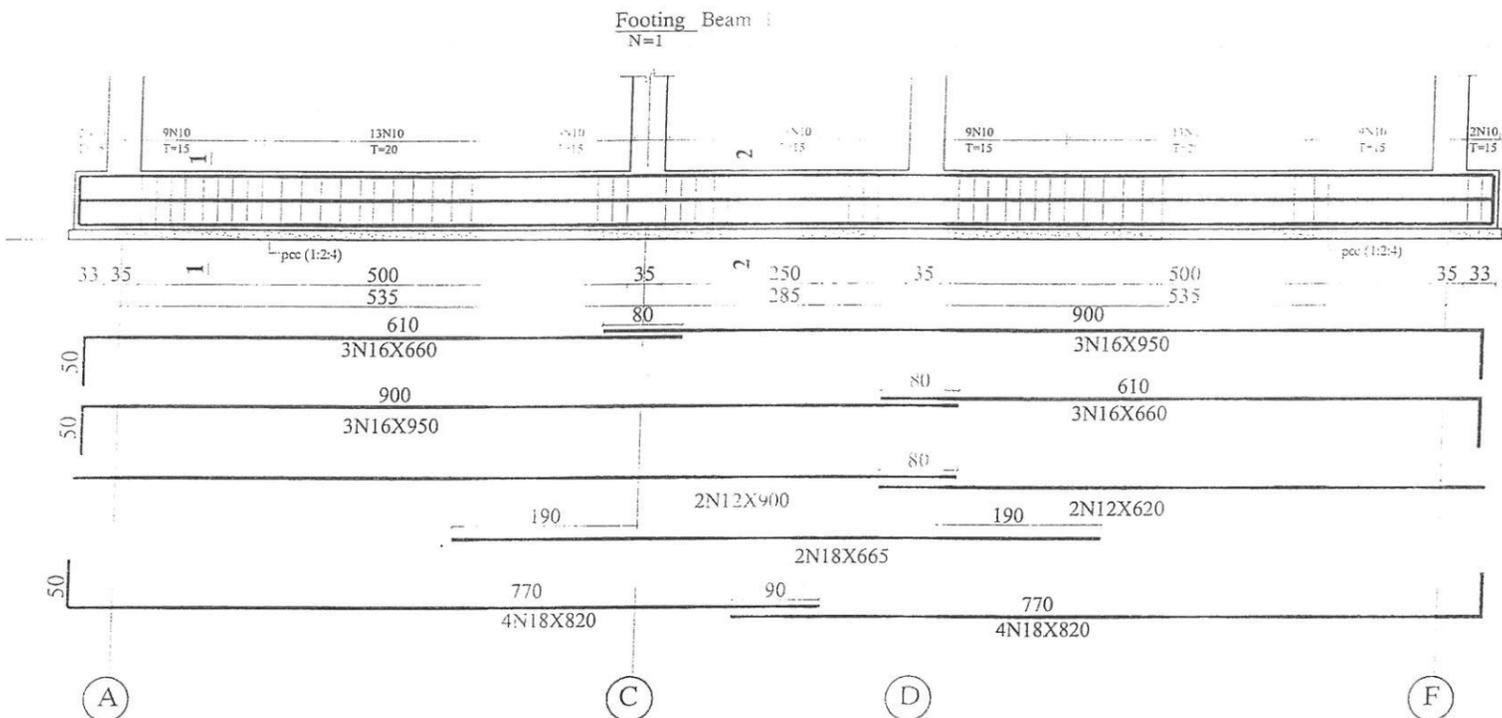
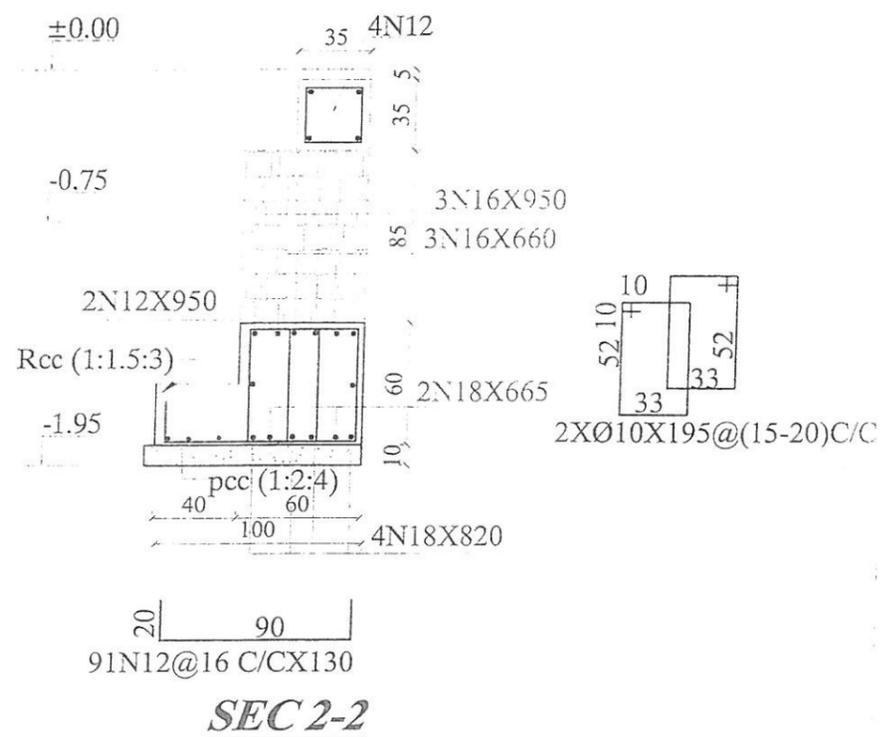
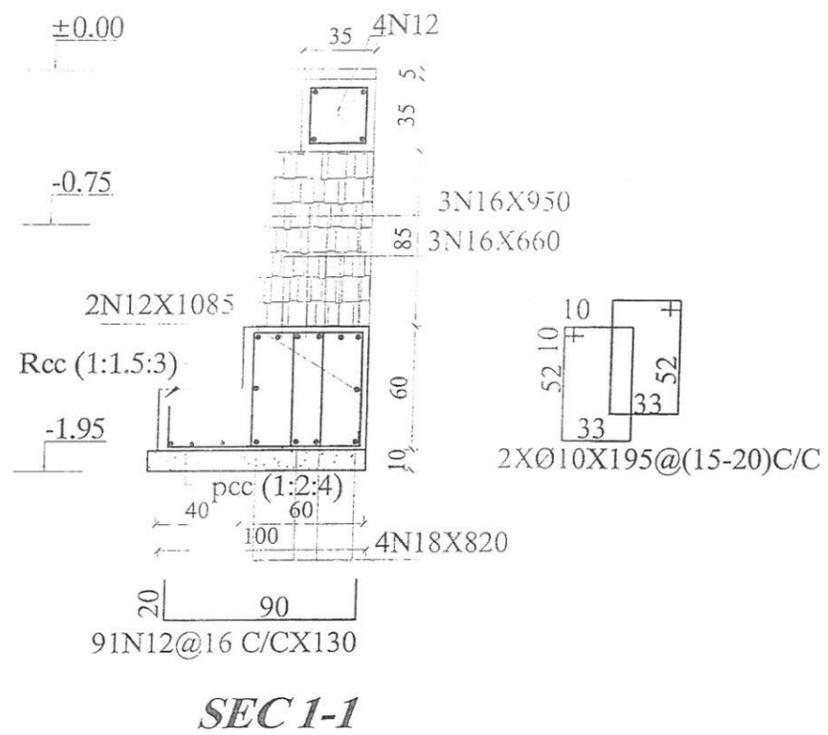


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STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moe	ENG.M.MOHMEN RAD	DRAWINGTYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA ZEWARI	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	14 CLASS ROOM B BRICK RCC I SHEET WITH COLUMPTER LAP AND LABRATORY
TECH-APPROVED	ENG.AB.MATIN MAQOL	DATE	6.4.2015	26		DRAWING TITLE	FOOTING BEAM-2



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STANDARD SCHOOL DESIGN
AFGHANISTAN

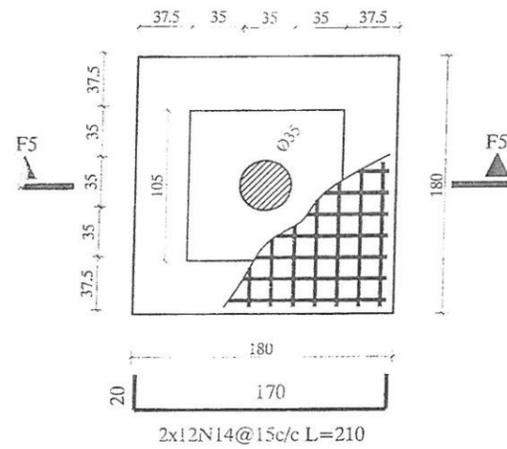
ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moc	ENG.M.MOHMEN RAD
RCC/DESIGN	ENG.FATIMA ZEWARI	SCALE	AS SHOWN (A3)
TECH-APPROVED	ENG.AB.MATIN MAQOL	DATE	6.4.2015

DRAWINGTYPE	STRUCTURE
SHEET NO.	3/26

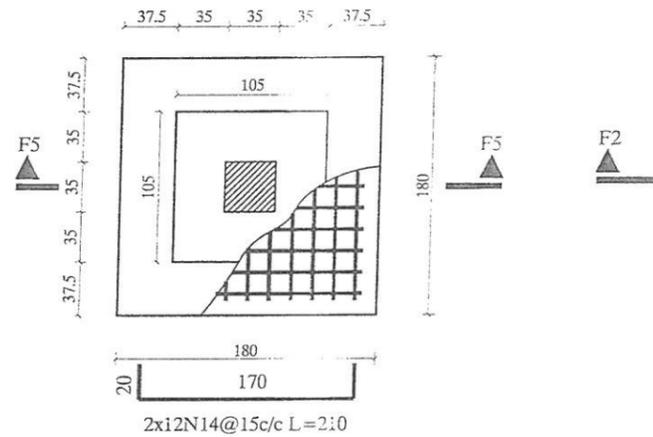
PROVINCE
PROJECT NAME
DRAWING TITLE

14 CLASS ROOM B BRICK RCC I. SHEET WITH COMPUER LAP AND LABRATORY
FOOTING BEAM-1

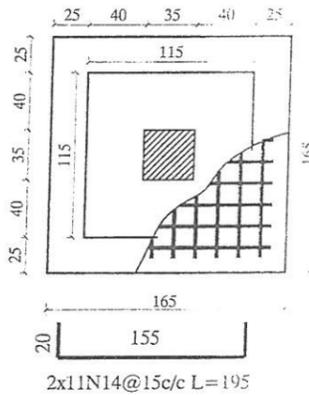
Footing FC-3
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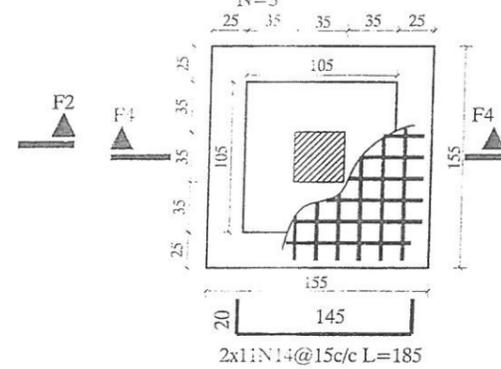
Footing FC-5
N=2



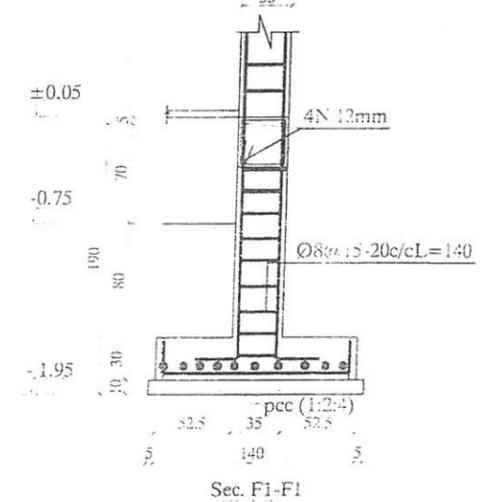
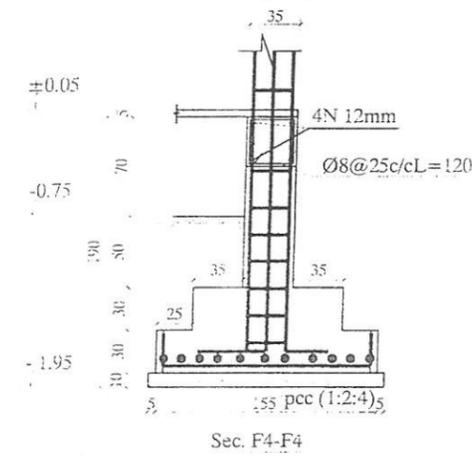
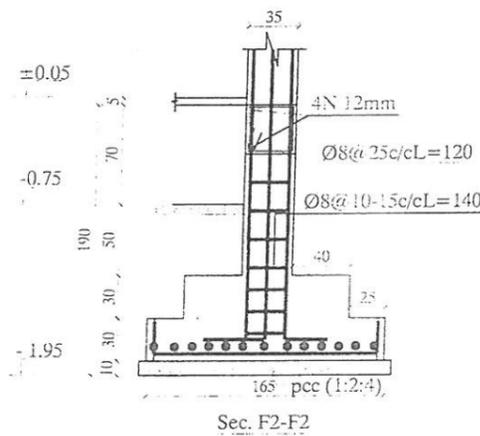
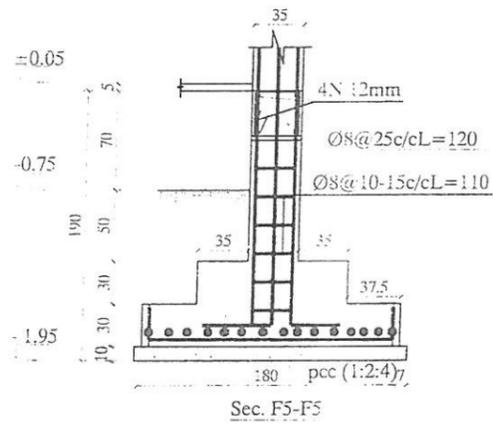
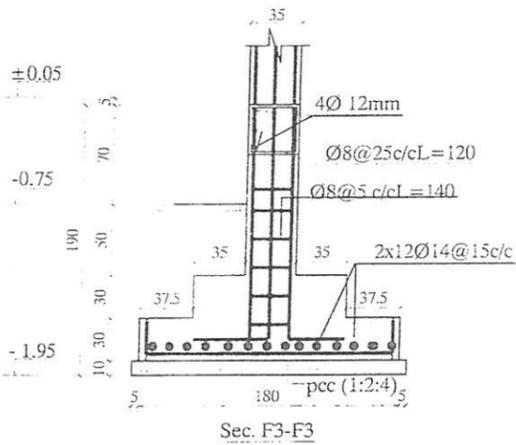
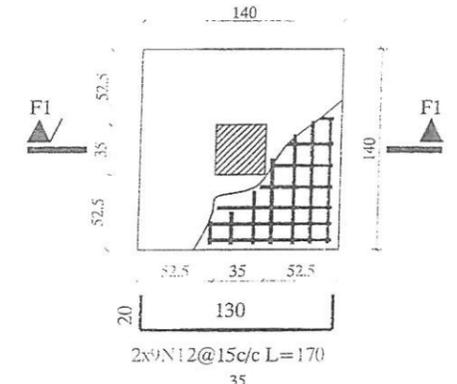
Footing -2
N=21



Footing FC-4
N=3



Footing -1
N=8



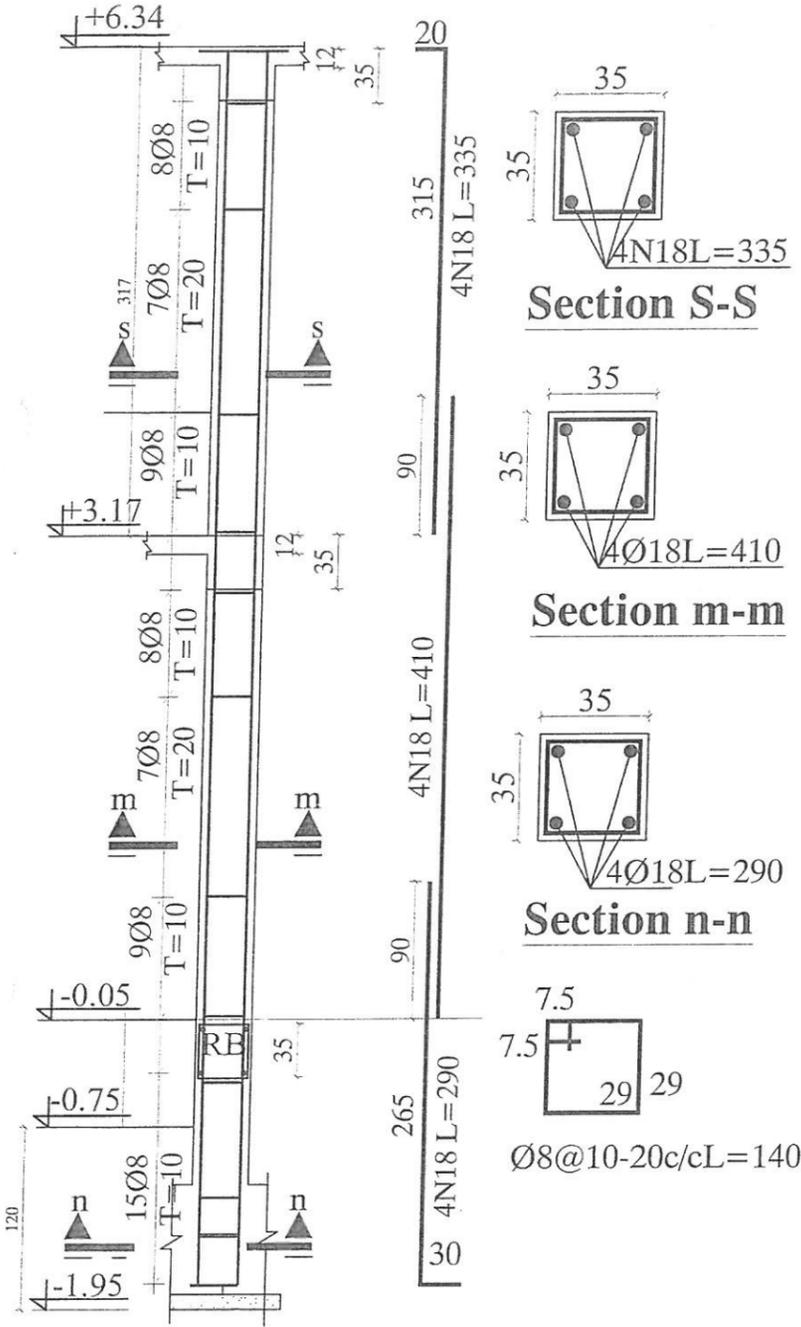
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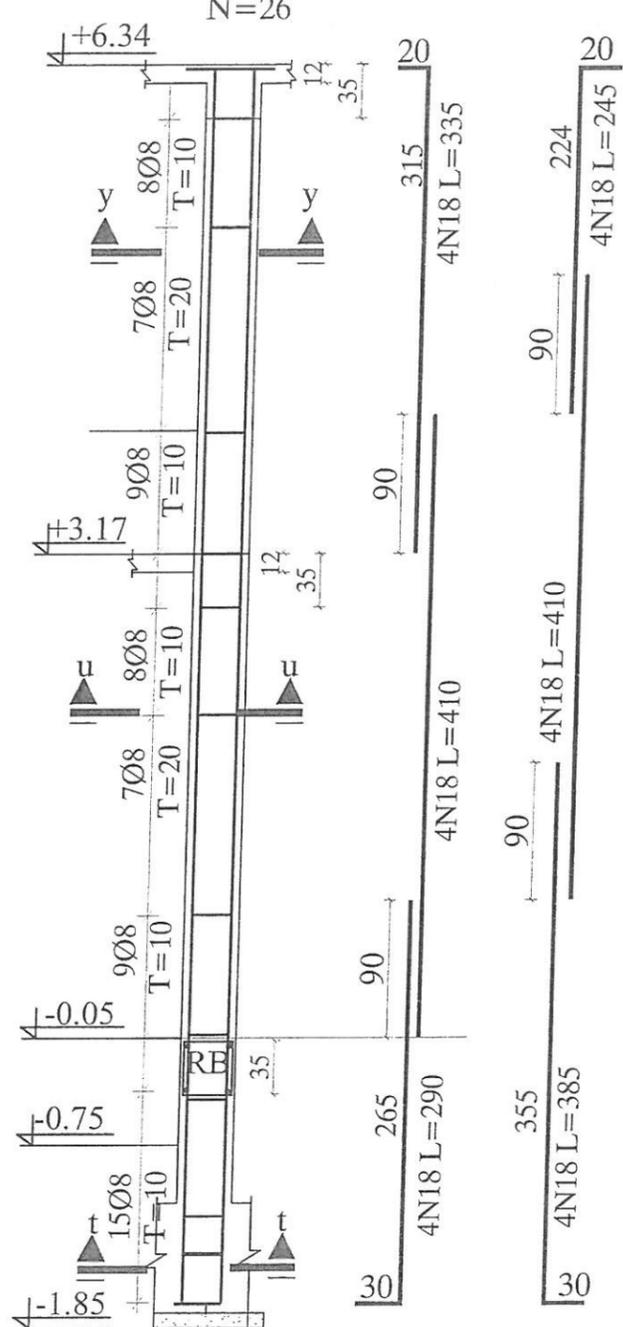
STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED/Doc/Mod	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA ZEWARI	SCALE	AS SHOWN (A3)	CODE	502/26	SHEET No.	8
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	DRAWING TITLE	14 CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAP AND LABORATORY FOOTING		

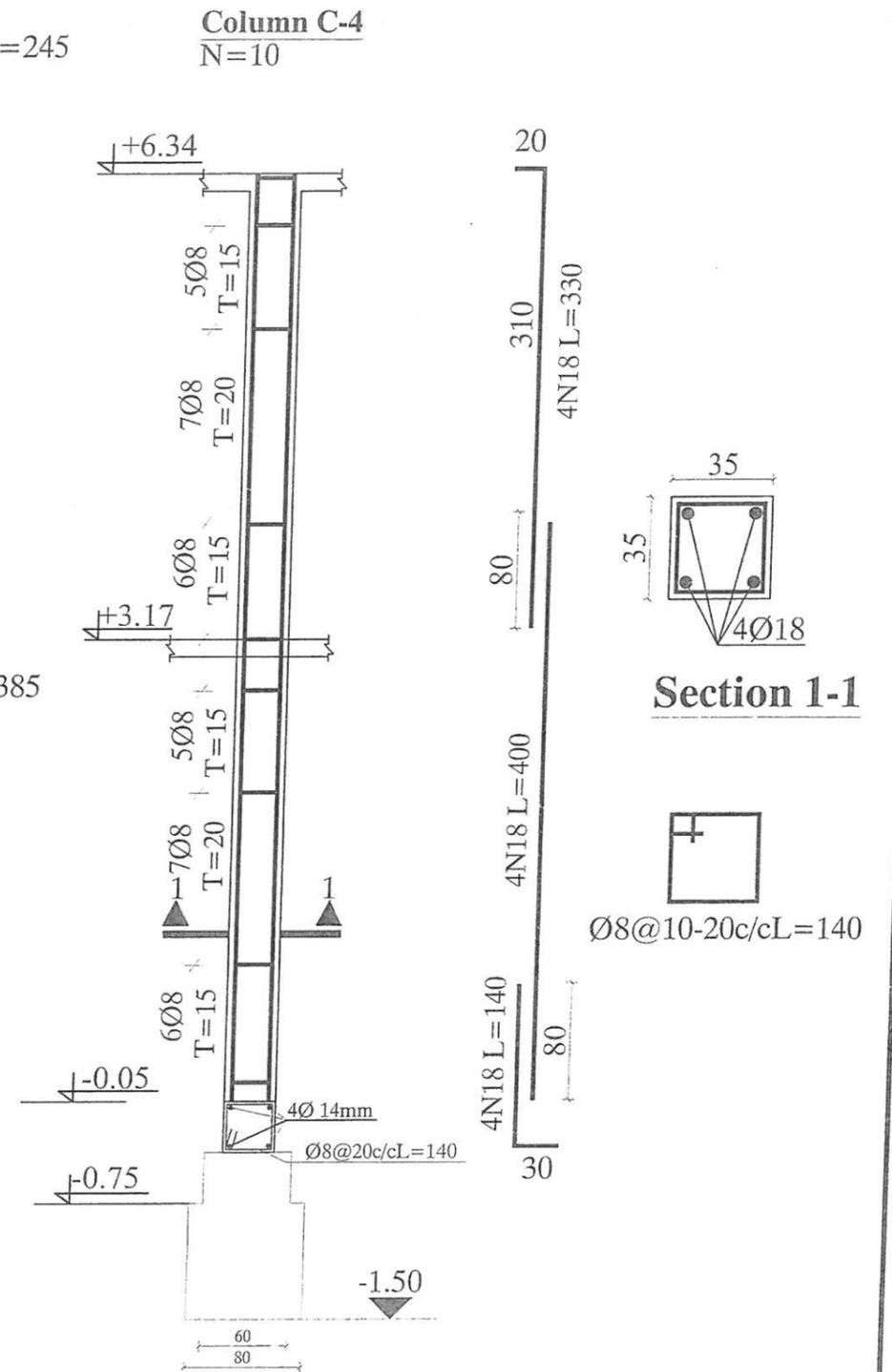
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Column -2
N=26



Column C-4
N=10



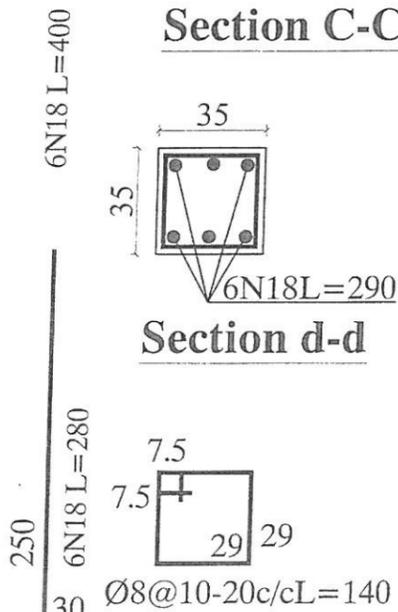
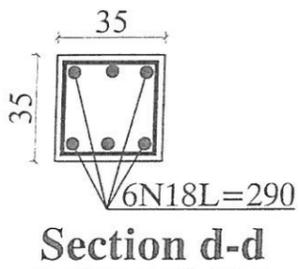
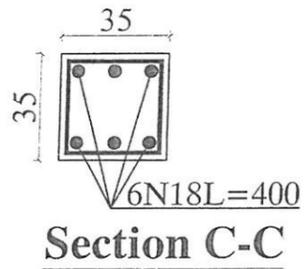
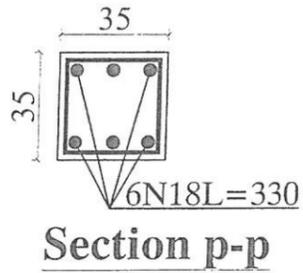
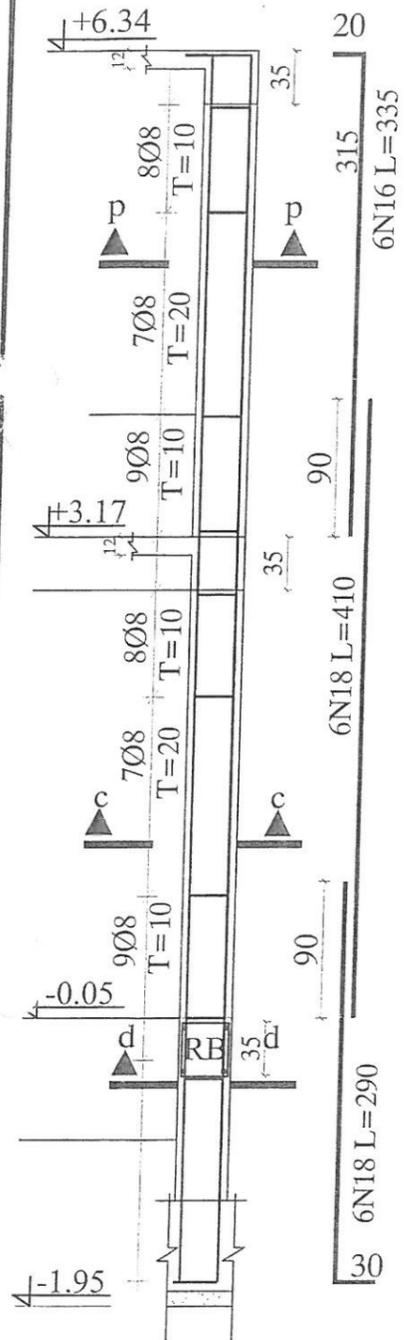
MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



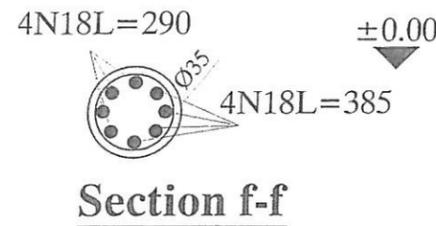
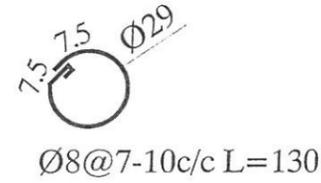
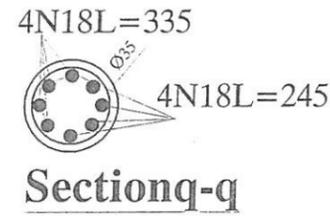
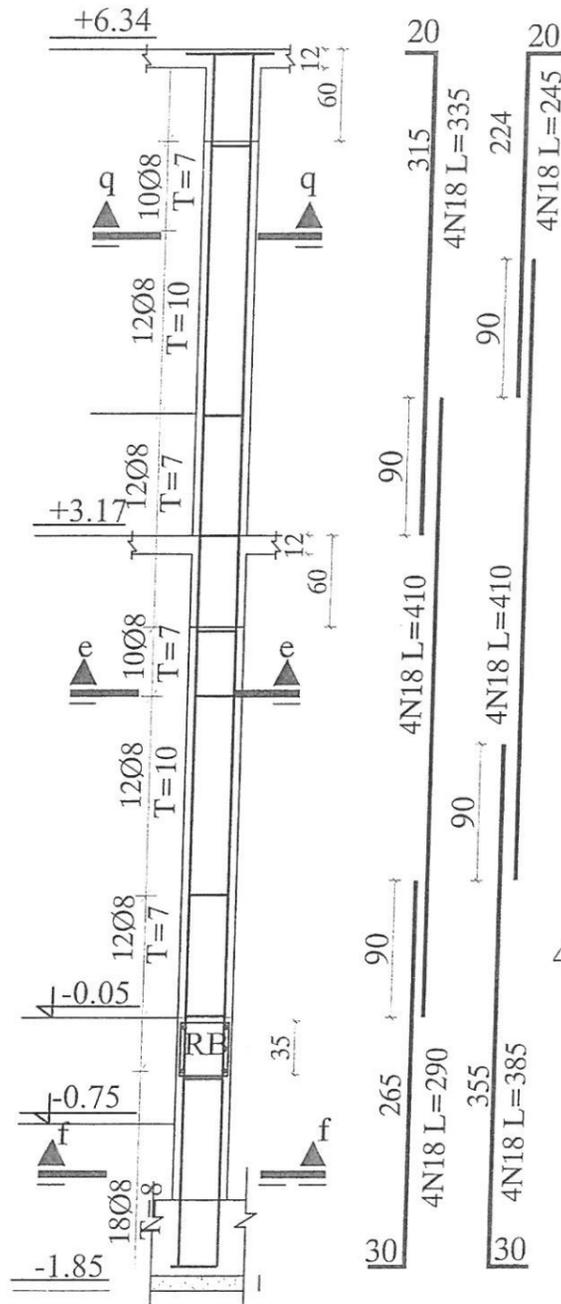
STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moc	ENG :M.RAD	DRAWING TYPE	STRUCTURE	PROJECT NAME	14 CLASS ROOM B BRICK RCC I SHEET WITH COUMPUTER LAP AND LABORATORY
RCC/DESIGN	ENG.FATIMA ZEWARI	SCALE	AS SHOWN (A3)	SHEET No	9/26	DRAWING TITLE	COLUMN
TECH-APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2 . 4 . 2014	CODE: S	0251		

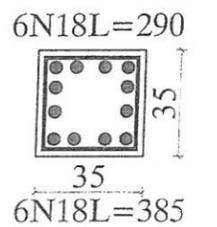
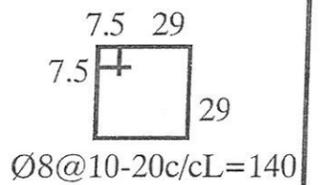
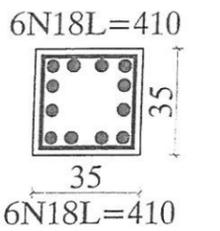
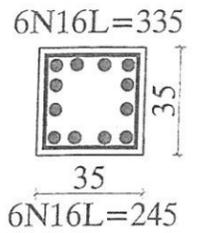
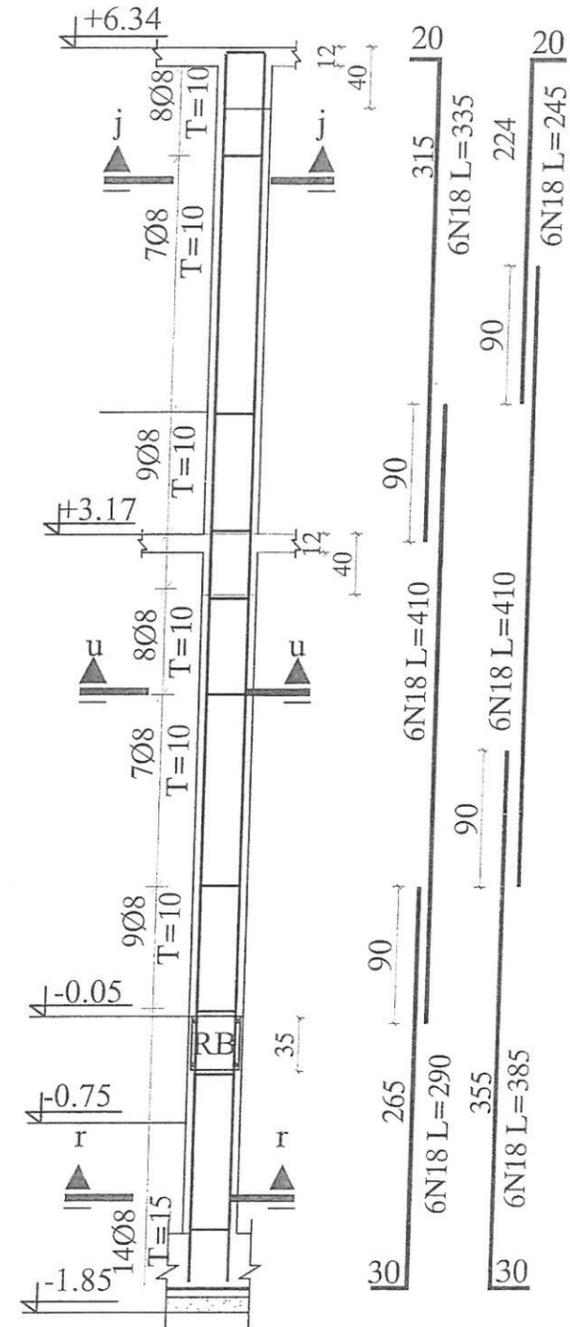
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Column C-3
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Column C-5
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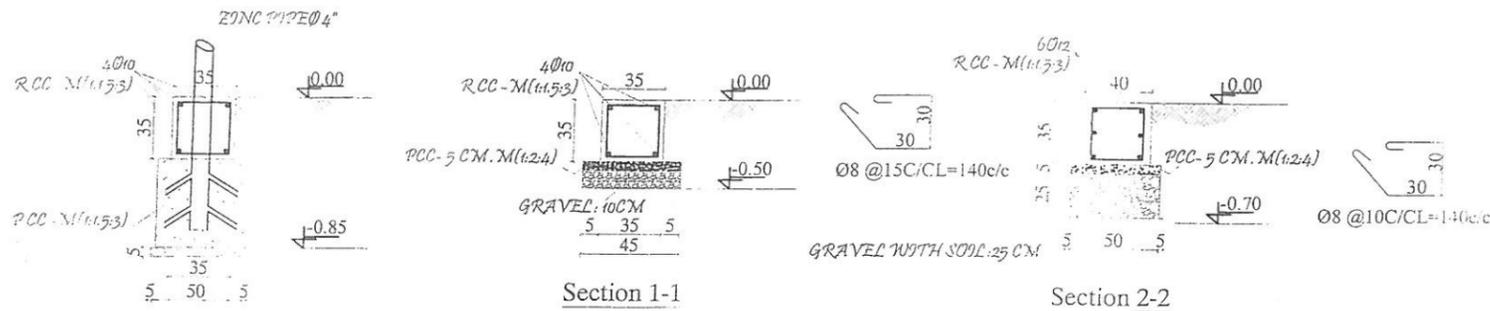
MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION



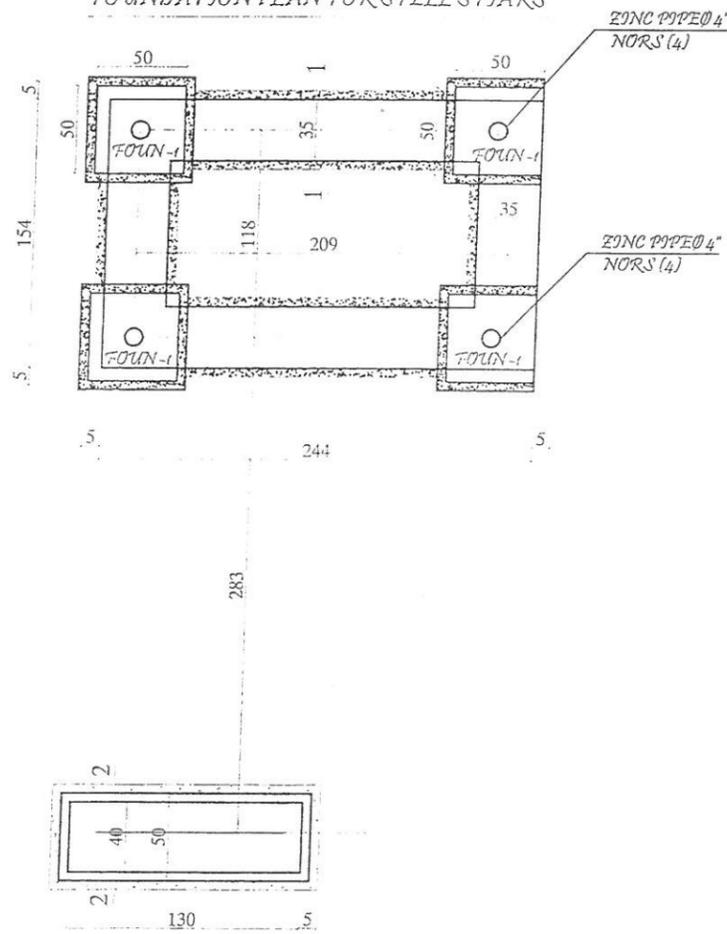
STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED/Doc/Msc	ENG :M.RAD	DRAWING TYPE	STRUCTURE	PROJECT NAME	14 CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAP AND LABORATORY
RCC/DESIGN	ENG.FATIMA ZEWARI	SCALE	AS SHOWN (A3)	SHEET No	10/26	DRAWING TITLE	COLUMN
TECH-APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2.4.2014	CODE: S	0251		

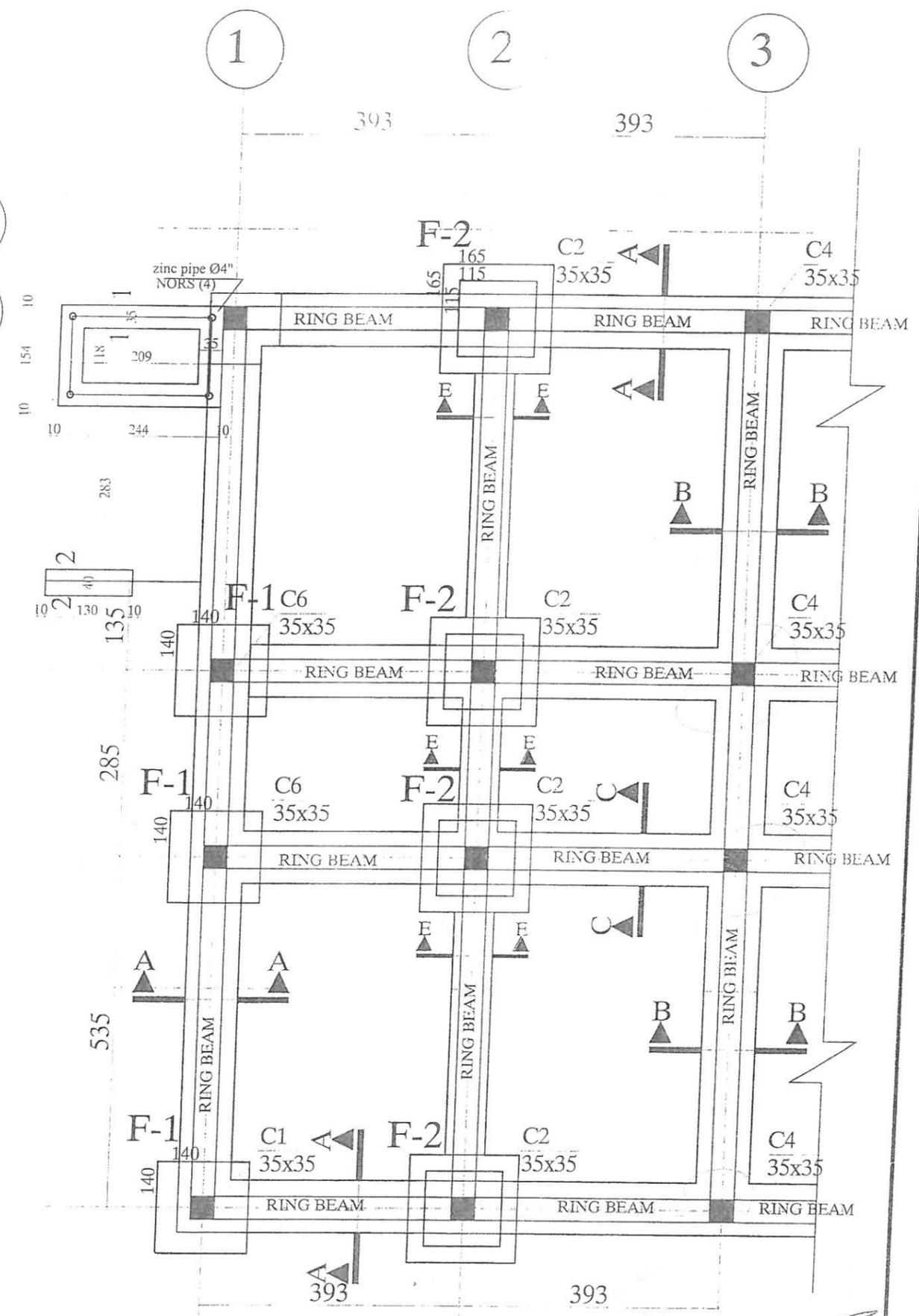
FOUNDATION - 1



FOUNDATION PLAN FOR STEEL STAIRS



G
F
E
D
C
B
A

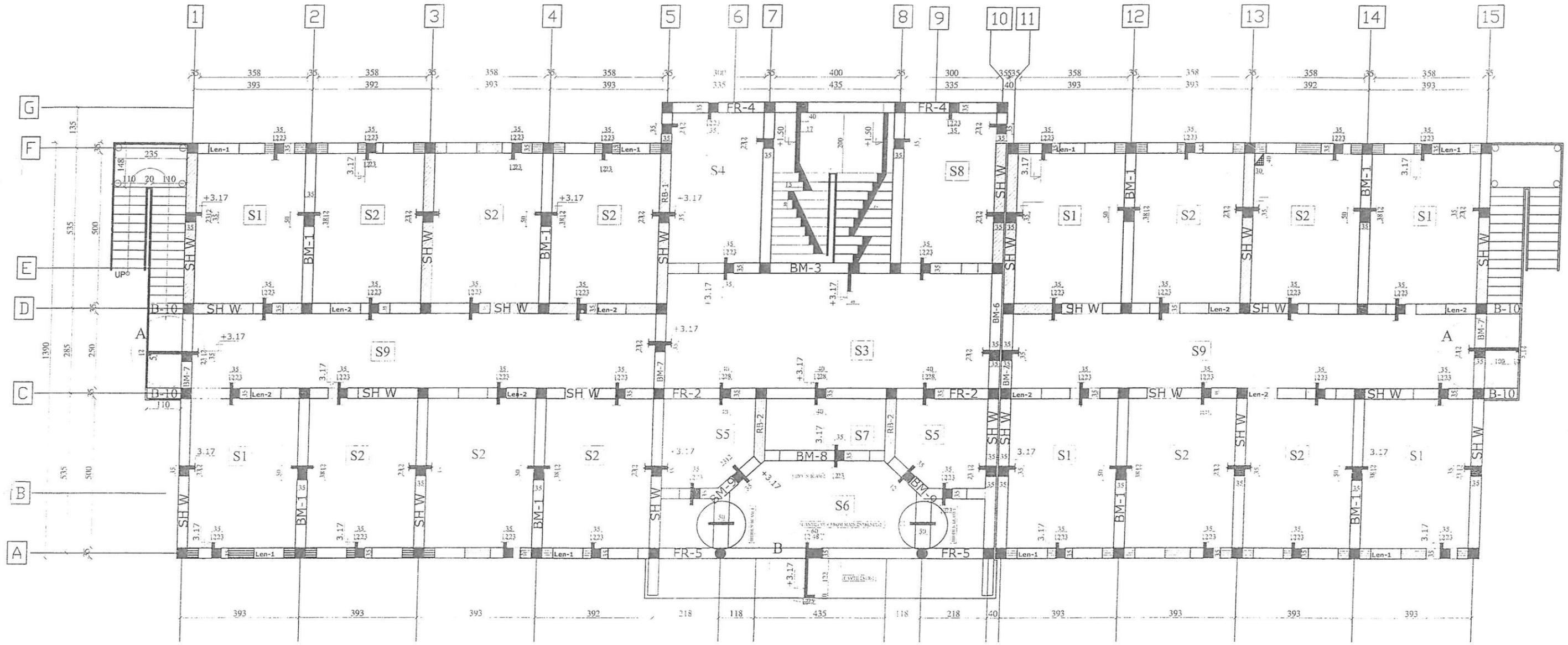


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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED: Doc/Misc	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA ZEWARI	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	14 CLASS ROOM B BRICK RCC I. SHEET WITH COMPUER LAP AND LABORATORY
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015		11 26	DRAWING TITLE	FOUNDATION PLAN FOR STEEL STAIRS



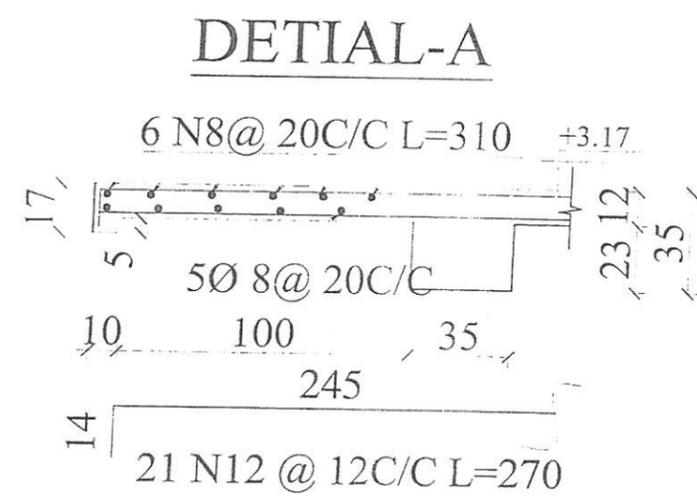
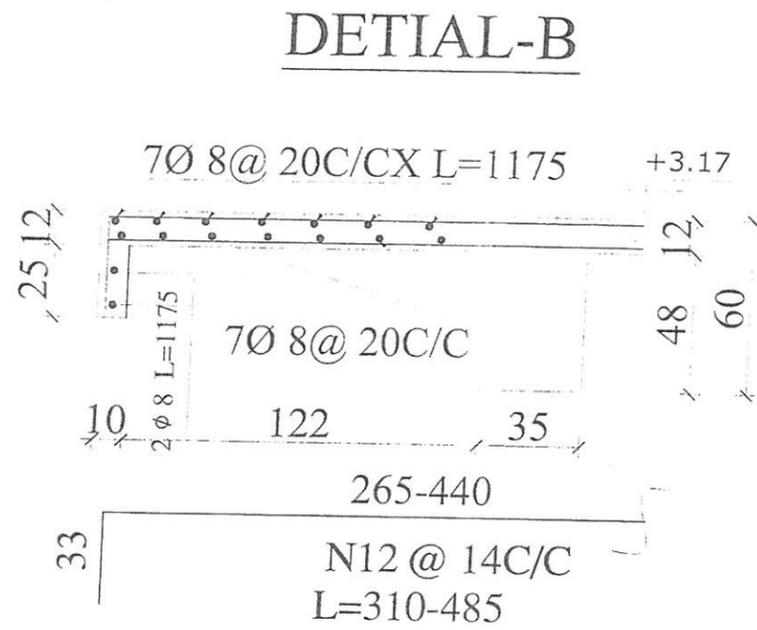
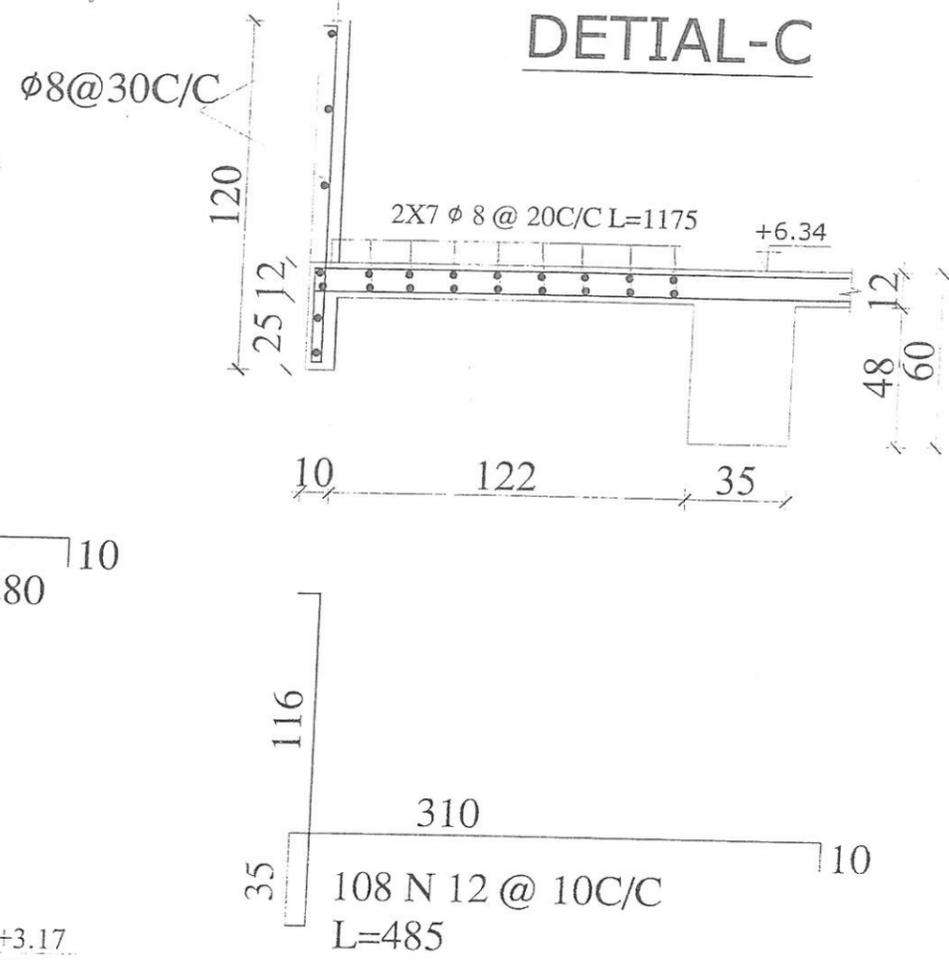
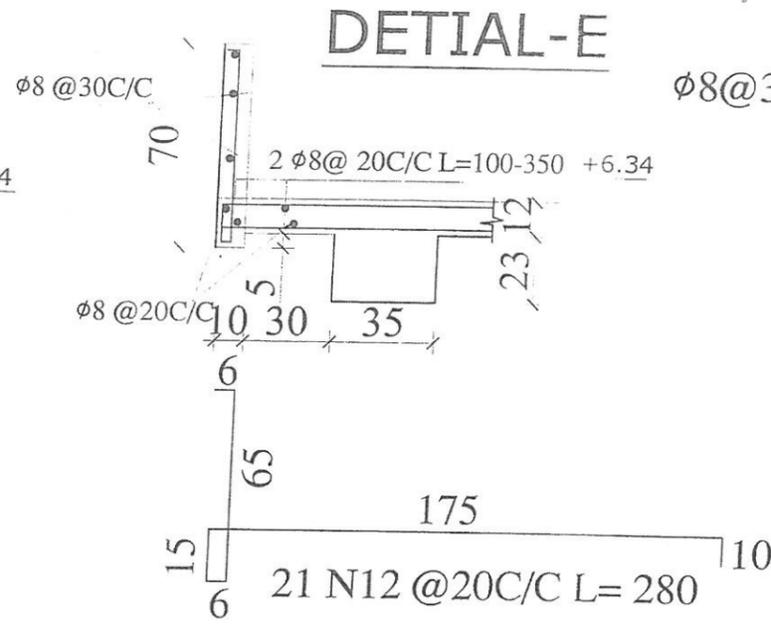
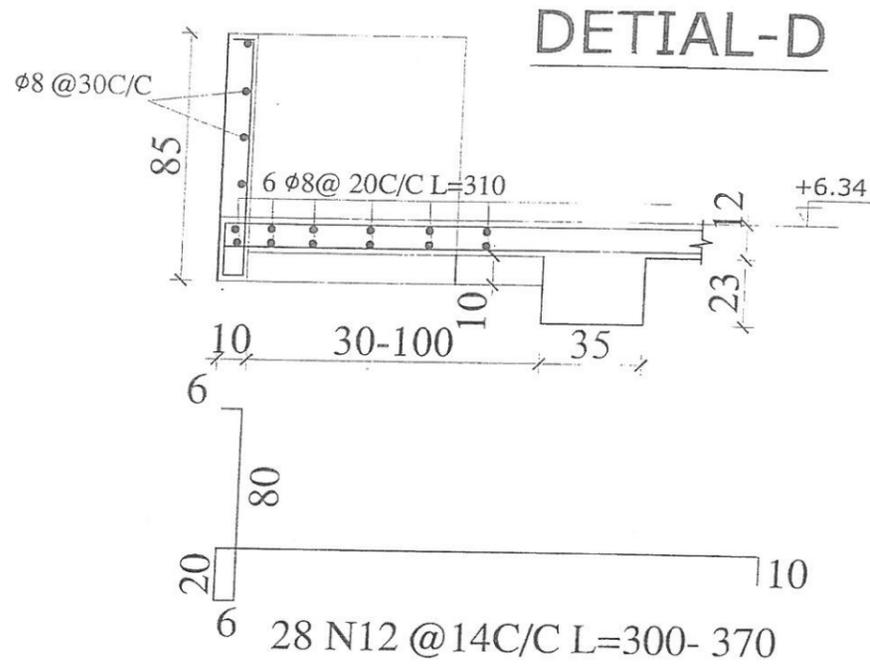
SHUTTERING PLAN AT LEVEL 3.17



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DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

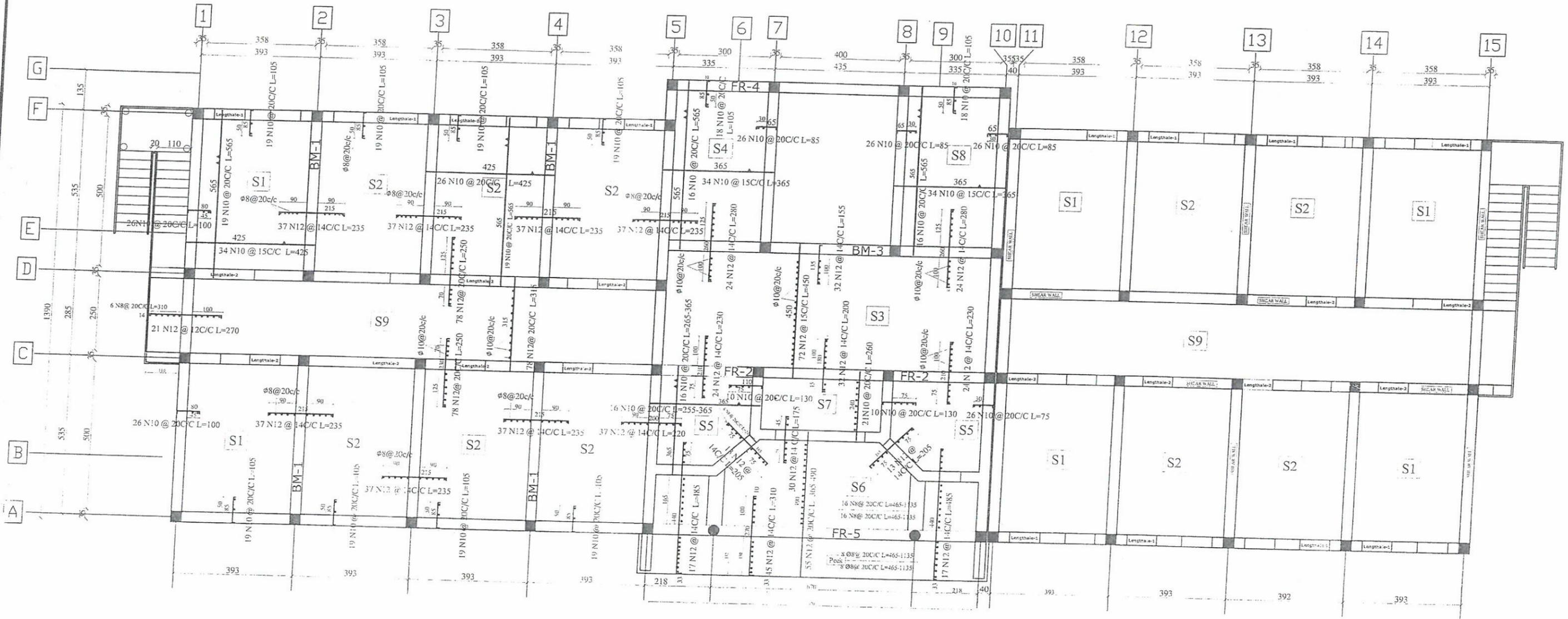
ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moc	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	14 CLASS ROOM 8 BRICK RCC I SHEET WITH COUMPUTER LAP AND LABRATORY
TECH. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015		12 26	DRAWING TITLE	SHUTTRING PLAN AT LEVEL +3.17



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED/Doc/Moe	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)			PROJECT NAME	14 CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAB AND LABRATORY
TECHN. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	CODE S/D/26	SHEET NO 13 26	DRAWING TITLE	RCC CANTILEVER



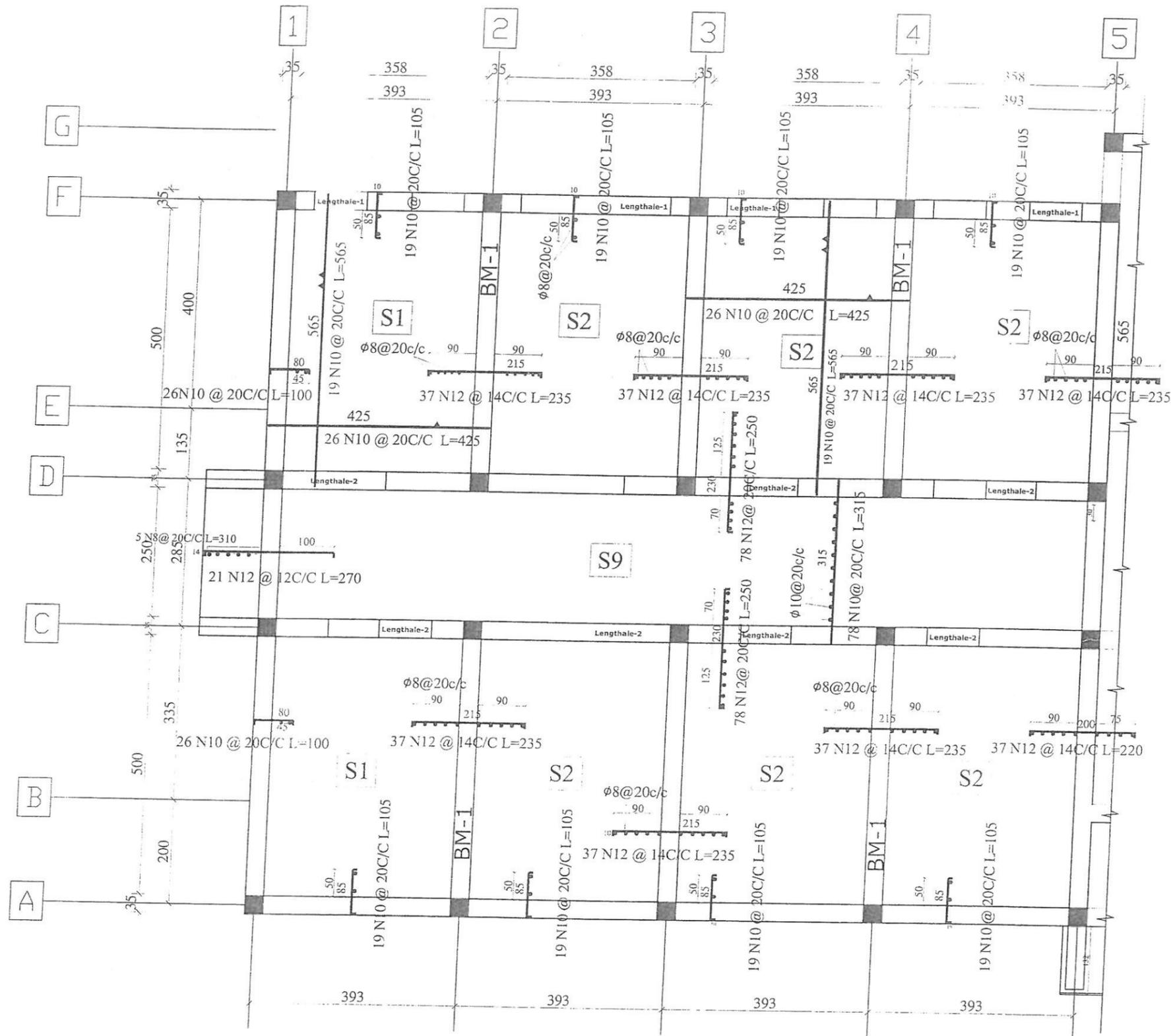
REINFORCING PLAN AT LEVEL 3.17



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moc	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE	S0266	PROJECT NAME	14 CLASS ROOM B BRICK RCC I. SHEET WITH COMPUER LAP AND LABRATORY
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	SHEET NO	14 26	DRAWING TITLE	KEY RCC SLAB DESIGN PLAN AT LEVEL+3.17



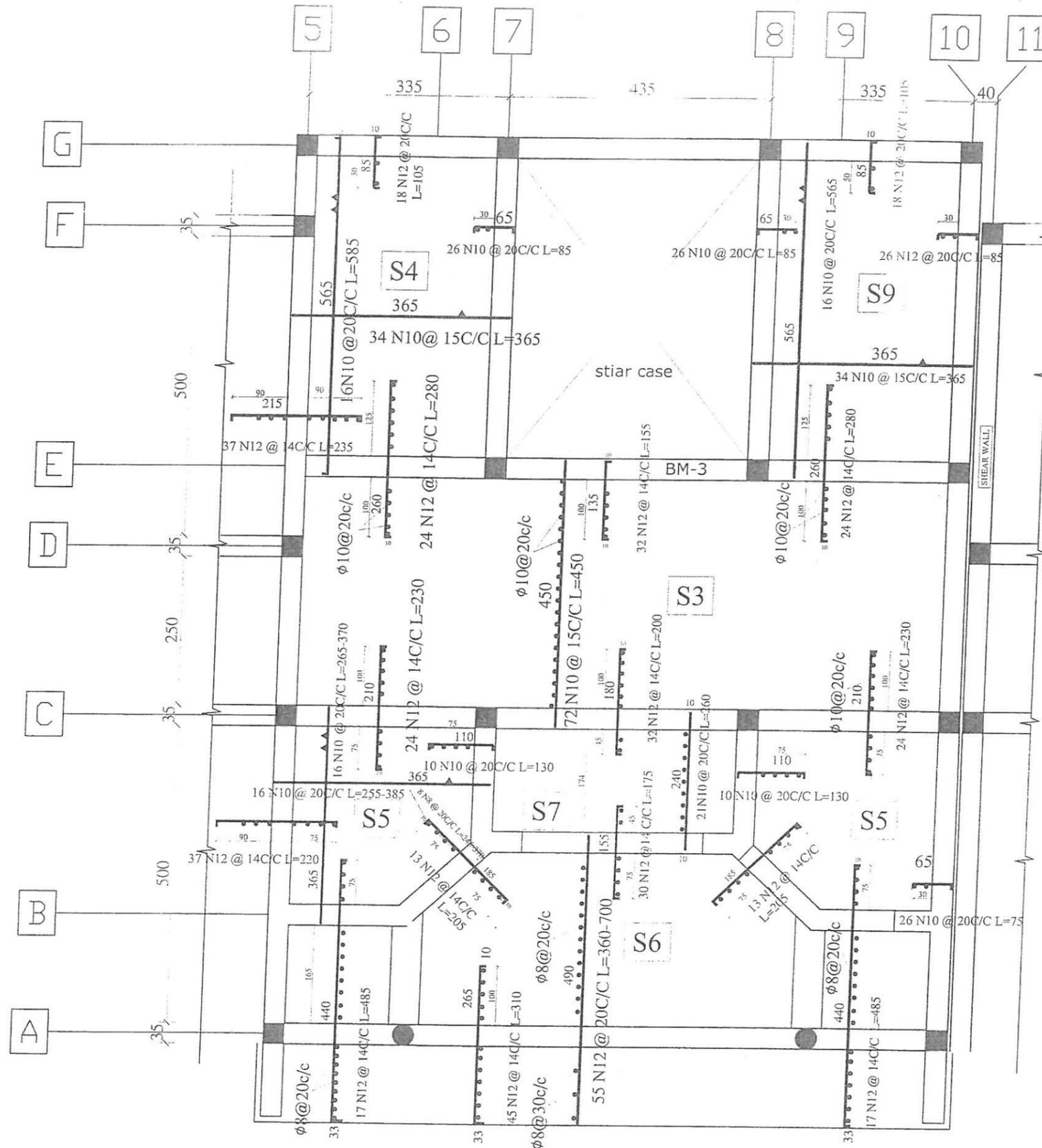
REINFORCING PLAN AT LEVEL 3.17



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	AH.FEROZ TAHIRY	APPROVED: Doc/Moc	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	14 CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAP AND LABRATORY
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	5-0366	15 26	DRAWING TITLE	REINFORCING PLAN AT LEVEL 3.17



REINFORCING PLAN AT LEVEL 3.17



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DEPARTMENT OF CONSTRUCTION

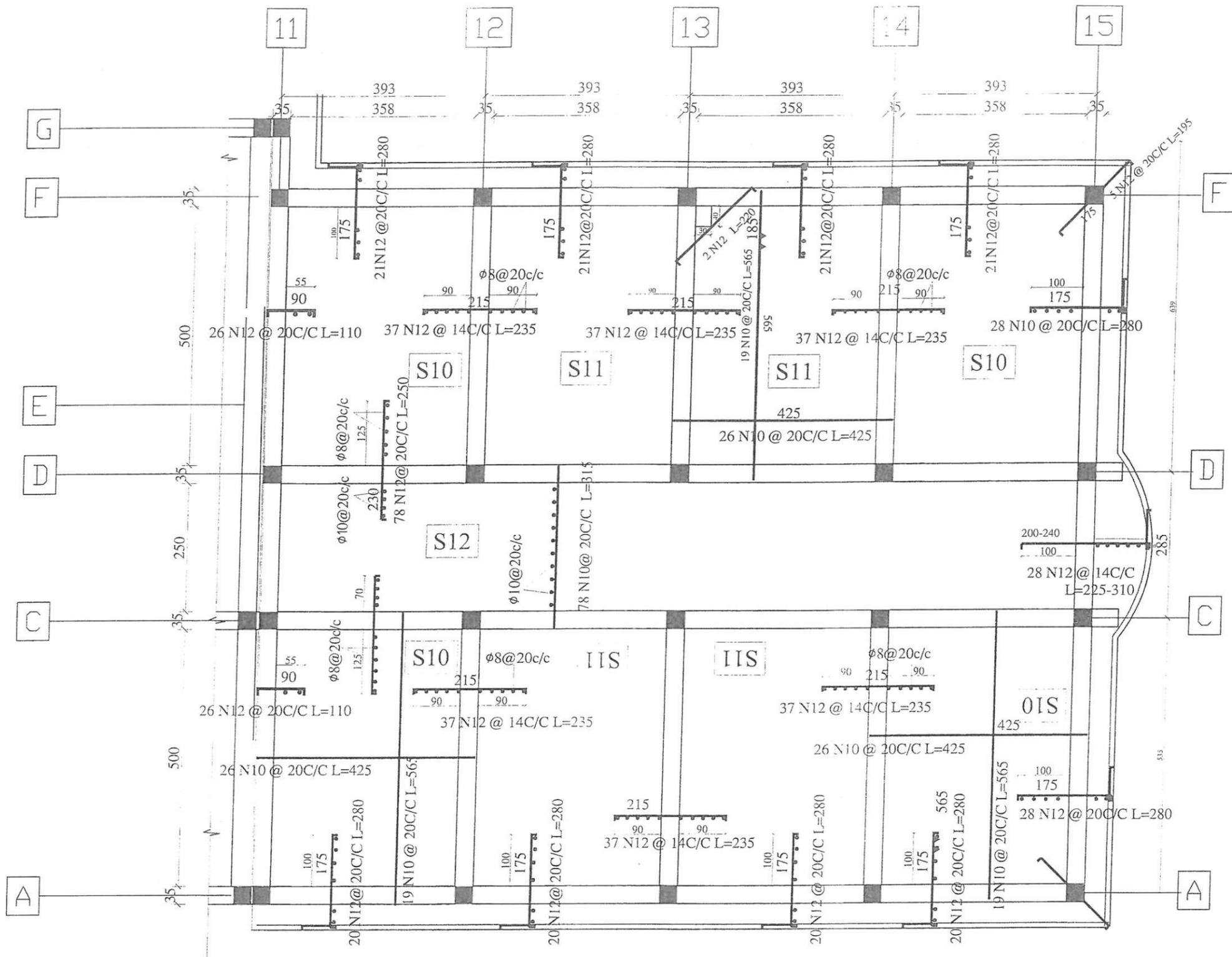
STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARHA	APPROVED: Doc/Moc	ENG.M.MOHIMEN RAD
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015

DRAWING TYPE	STRUCTURE
PROVINCE	
PROJECT NAME	
DRAWING TITLE	

CODE S.0286 SHEET NO. 16/26

14 CLASS ROOM B BRICK RCC I. SHEET WITH COMPUTER LAP AND LABORATORY
REINFORCING PLAN AT LEVEL +3.17



REINFORCING PLAN AT LEVEL 3.17

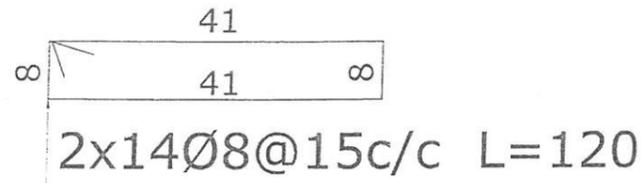
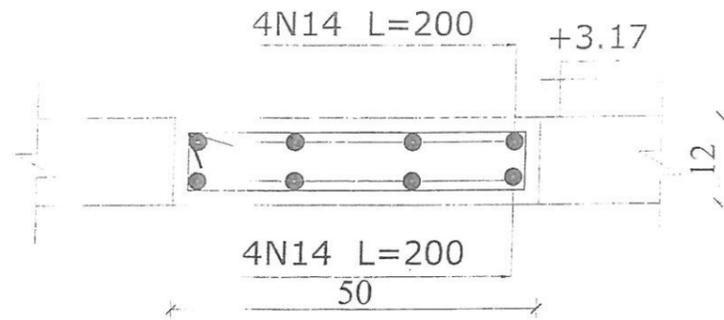


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DEPARTMENT OF CONTRACTION

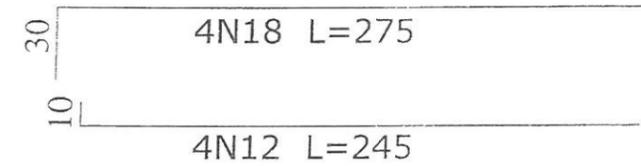
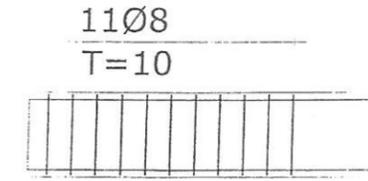
STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG. FARAH	APPROVED: Dec/Mec	ENG. M. MOHMEN RAD	DRAWING TYPE: STRUCTURE	PROVINCE
RCC/DESIGN	ENG. FATIMA	SCALE	AS SHOWN (A3)	CODE	SHEET NO. 17
TECH. APPROVED BY	ENG. AB. MATIN MAQOL	DATE	6.4.2015	SHEET NO. 26	PROJECT NAME
					14 CLASS ROOM B BRICK RCC 1 SHEET WITH COMPUER LAP AND LABRATORY
					DRAWING TITLE
					BENDING BAR SPLN AT LEVEL -3.17

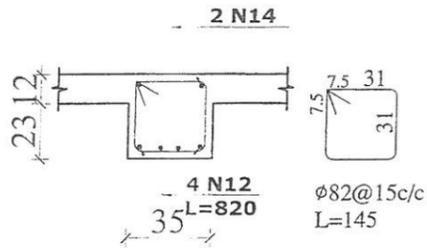
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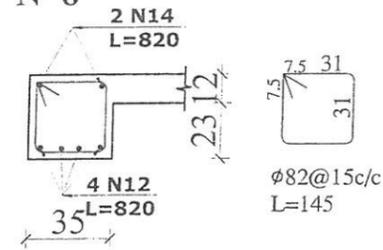
BEAM-10



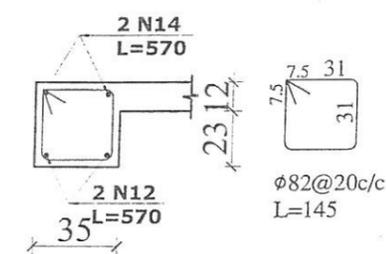
LENGHTALE-2
N=8



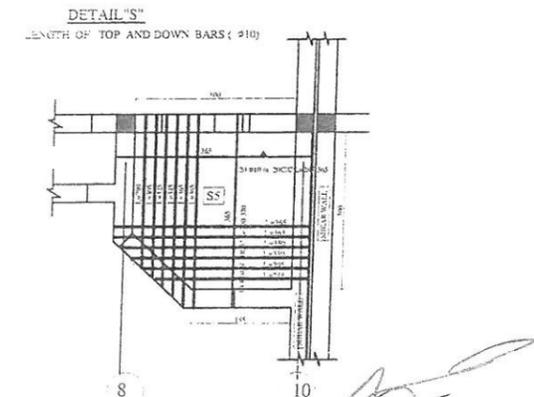
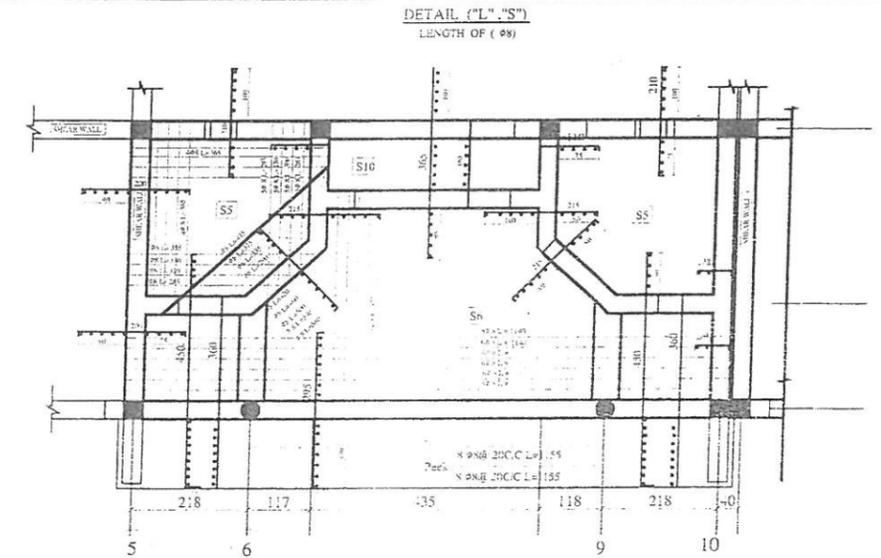
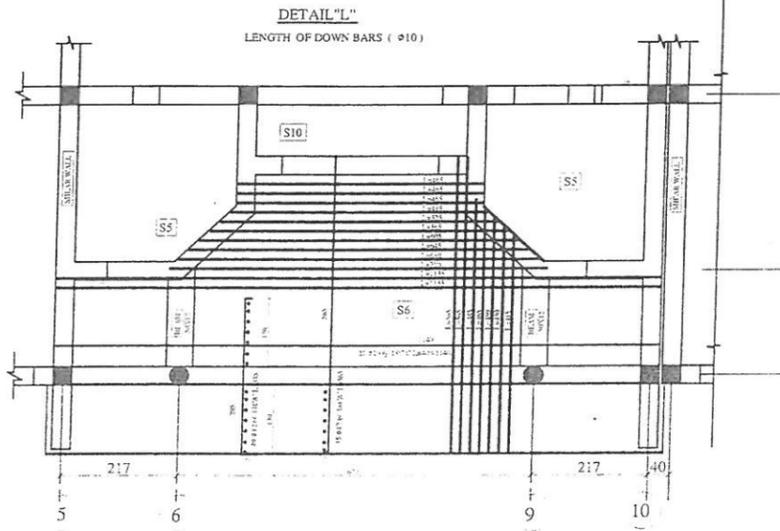
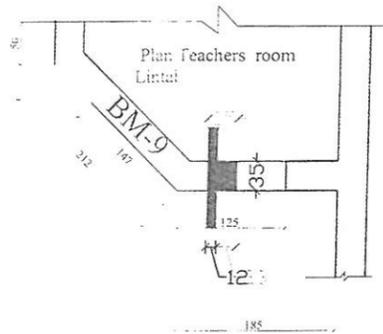
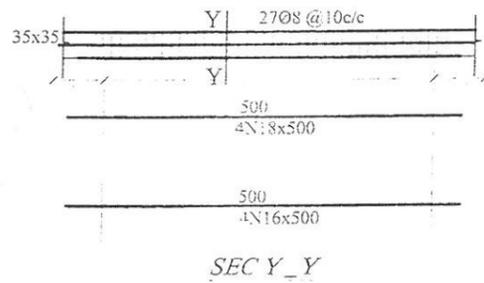
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N=8



RING BEAM-1
N=16



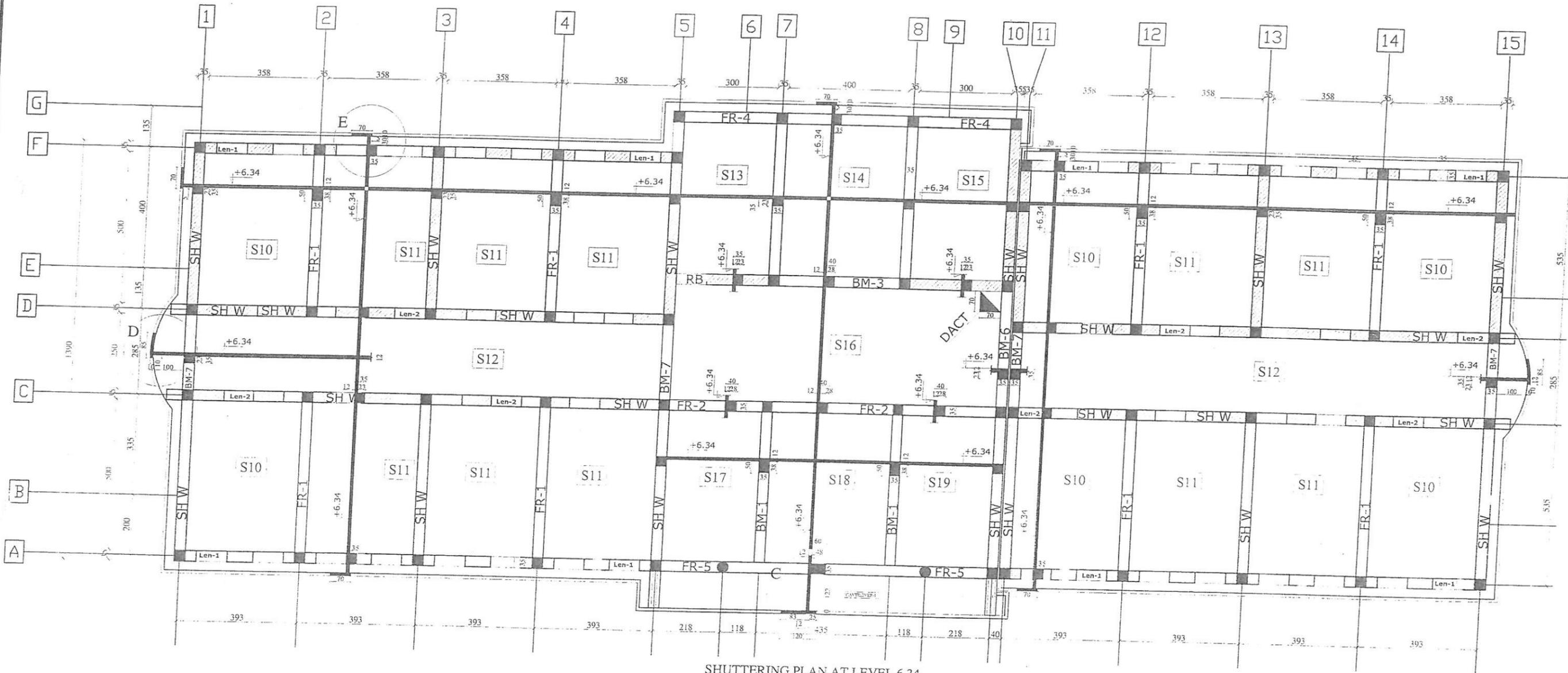
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MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED-Doc.Moe	ENG.M.MOHIMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	14 CLASS ROOM B BRICK RCC I SHEET WITH COMPUER LAP AND LABORATORY RCC CANTILEVER
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	18	26	DRAWING TITLE	



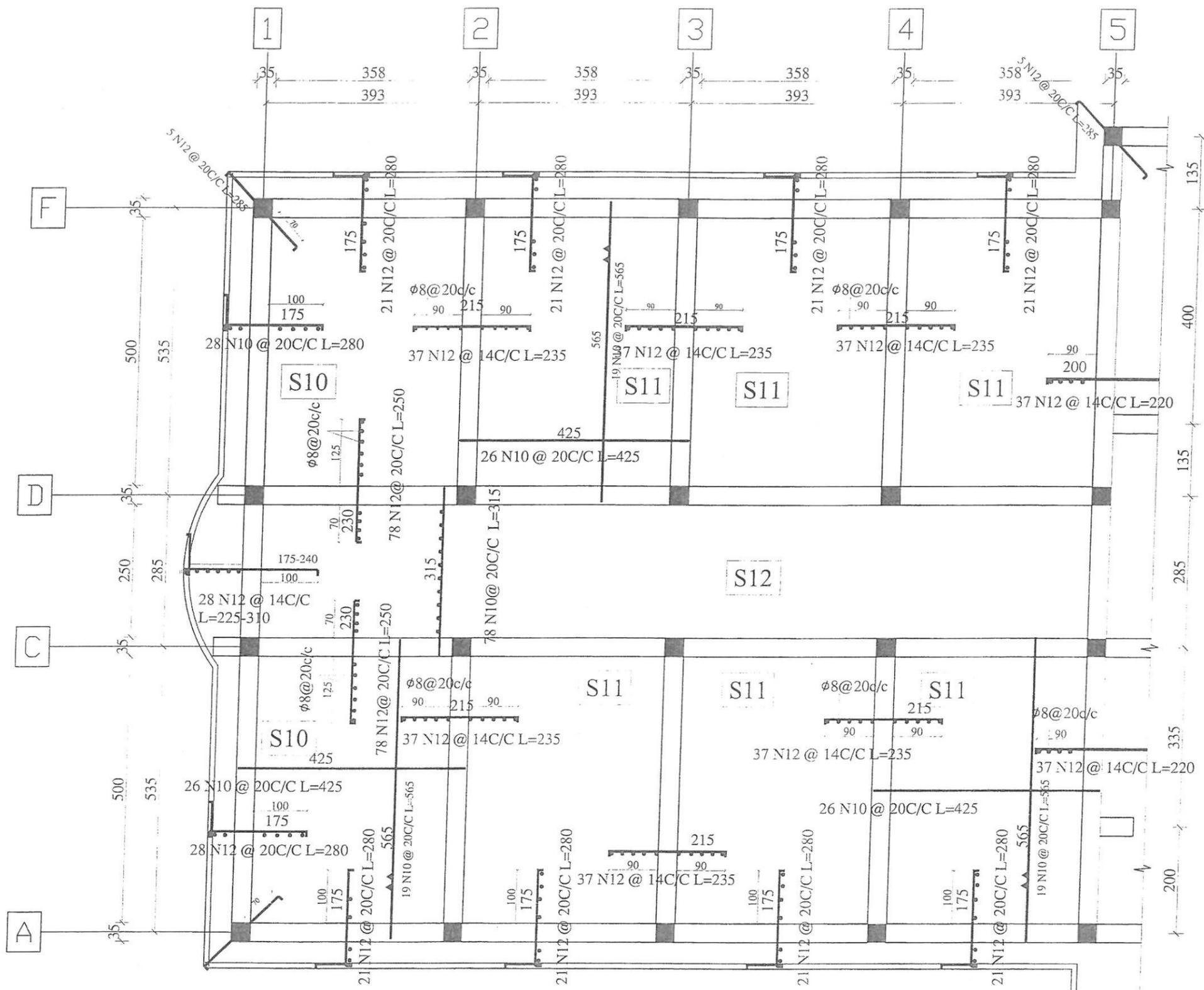
SHUTTERING PLAN AT LEVEL 6.34



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moc	ENG.M.MOHMEN RAD	DRAWING No	PROVINCE
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE S.0266	PROJECT NAME
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	SHEET NO	DRAWING TITLE
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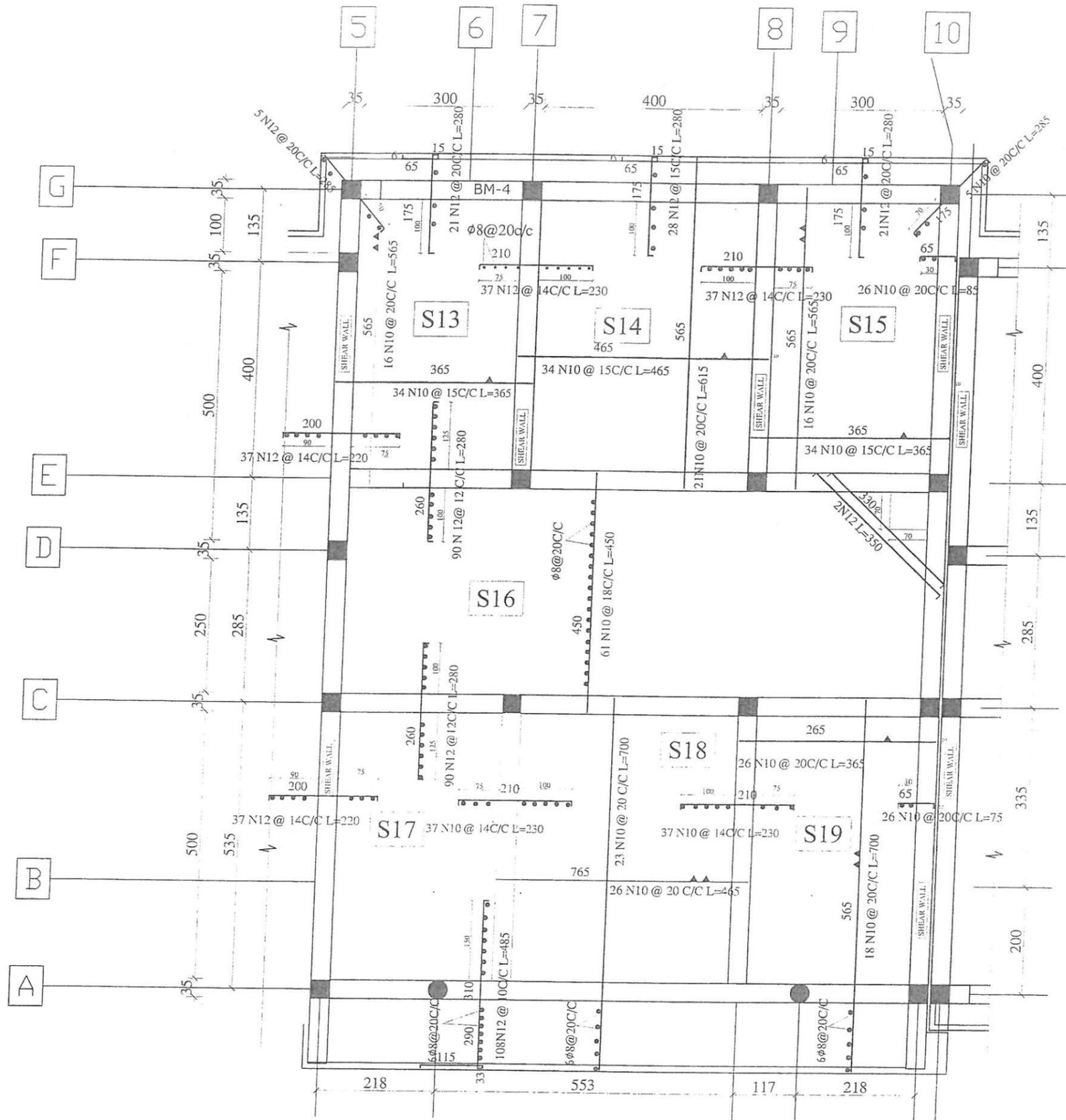
REINFORCING PLAN AT LEVEL 6.34



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED Doc.No	ENG.M.MOHMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE
RCC DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODICE	S.0266	PROJECT NAME
TECH. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6-4-2015	SHEET NO.	20 26	DRAWING TITLE
						14 CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAP AND LABRATORY
						GROUND FLOOR OF SHUTTRING PLAN AT LEVEL +3.17



REINFORCING PLAN AT LEVEL 6.34



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

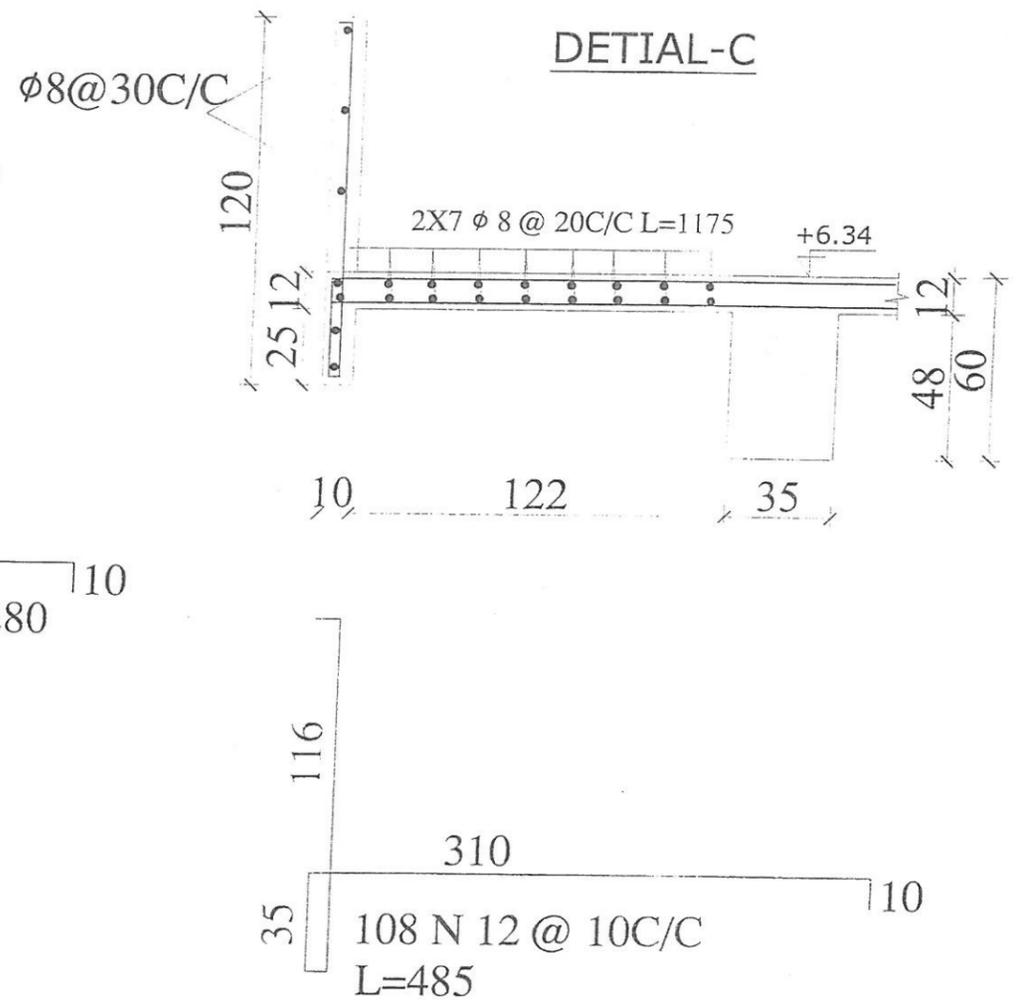
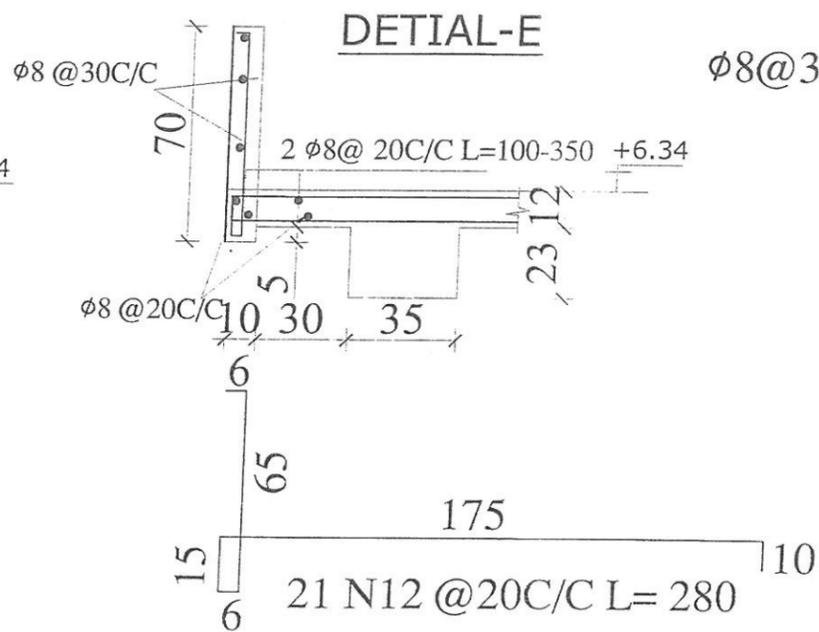
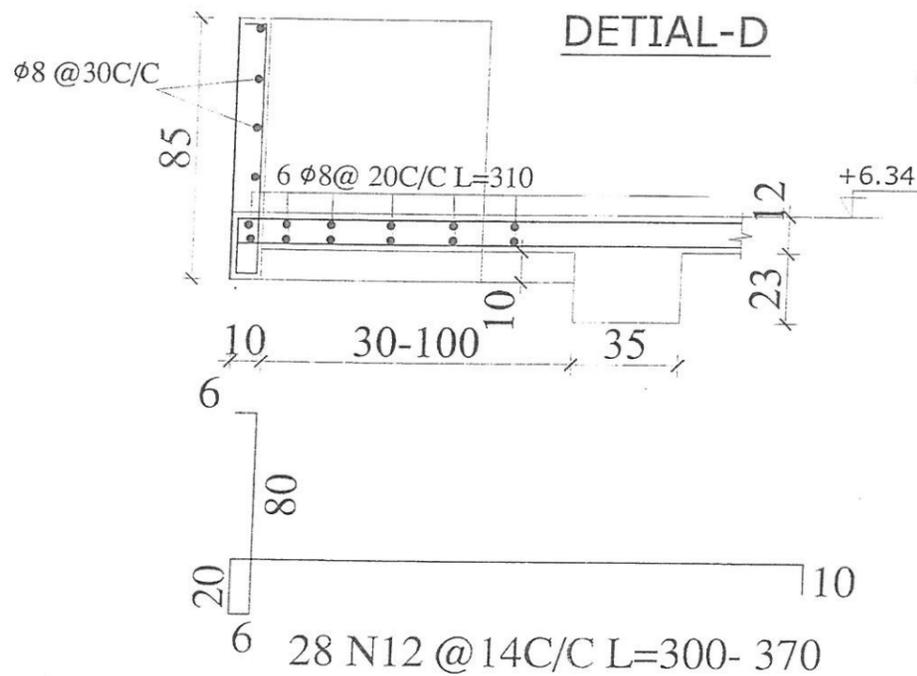
ARCHITECT/DESIGN: ENG. FARAH
RCC/DESIGN: ENG. FATIMA
TECH-APPROVED BY: ENG. AB. MATIN MAQOL

APPROVED: Doc/Moe: ENG. M. MOHIMEN RAD
SCALE: AS SHOWN (A3)
DATE: 6.4.2015

DRAWING TYPE: STRUCTURE

CODE: 3-02/60
SHEET NO: 21/26

PROVINCE:
PROJECT NAME: 14 CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAP AND LABRATORY
DRAWING TITLE: REINFORCING PLAN AT LEVEL -3 17



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STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN ENG. FARAH
RCC/DESIGN ENG. FATIMA
TECH- APPROVED BY ENG. AB. MATIN MAQOL

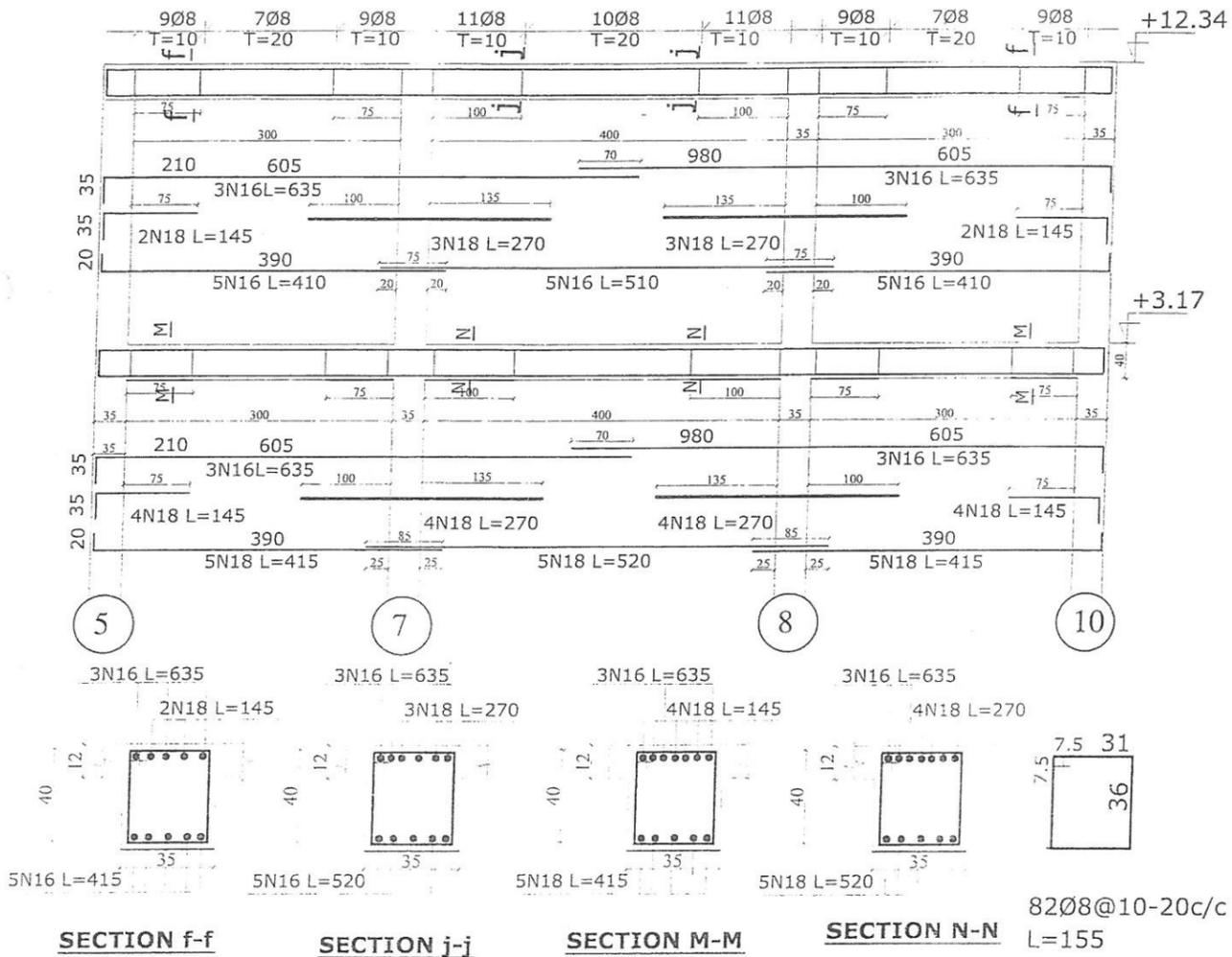
APPROVED: Doc/Moe ENG. M. MOHMEN RAD
SCALE AS SHOWN (A3)
DATE 6.4.2015

DRAWING TYPE STRUCTURE
SHEET NO. 23/26

PROVINCE
PROJECT NAME
DRAWING TITLE

1- CLASS ROOM B BRICK RCC I. SHEET WITH COUMPUTER LAP AND LABRATORY
BENDING BAR SPLAN AT LEVEL +6.34

F-2
N=1 35x40



SECTION f-f

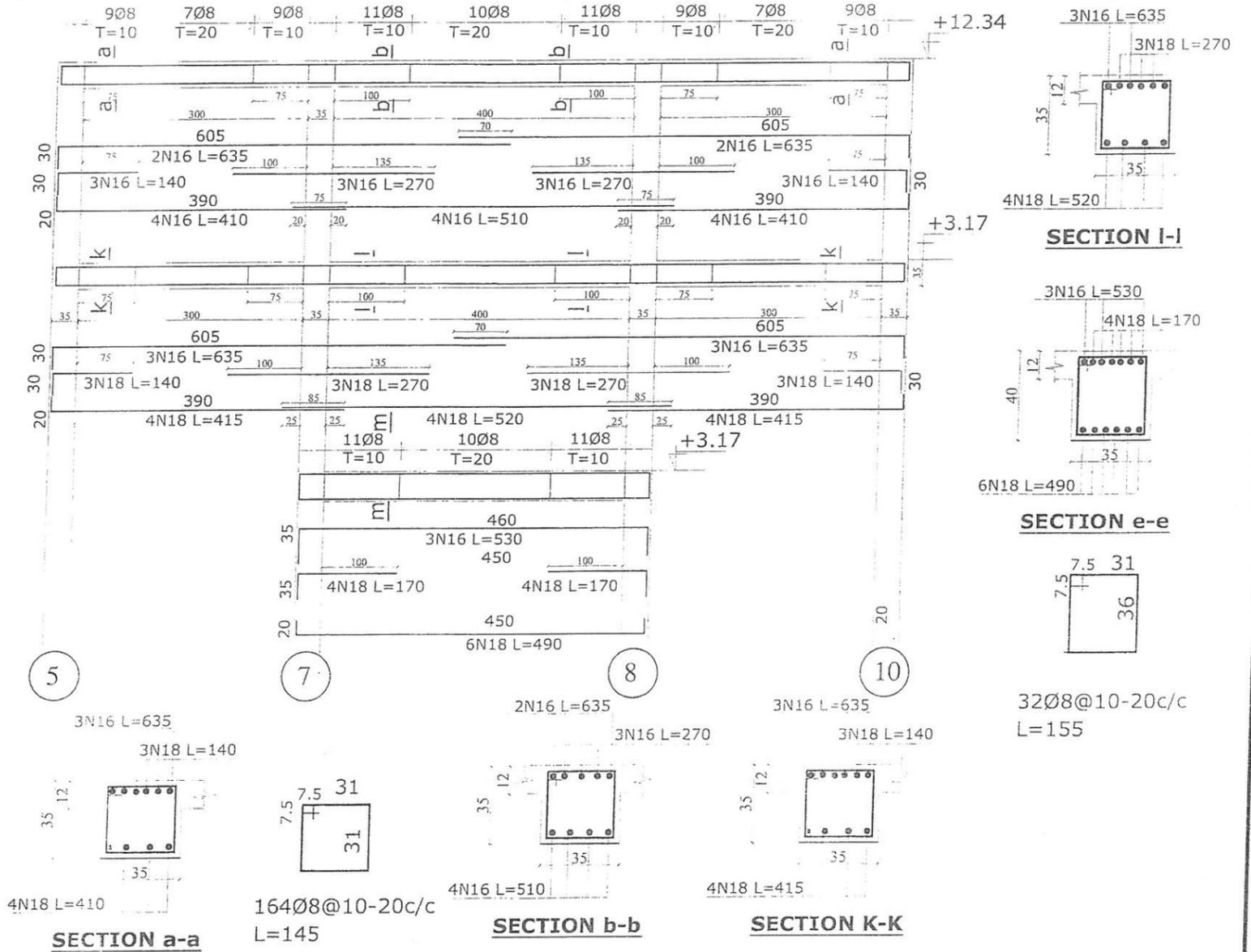
SECTION j-j

SECTION M-M

SECTION N-N

82Ø8@10-20c/c
L=155

F-4
N=1 35x35&35x40



SECTION a-a

SECTION b-b

SECTION K-K

SECTION I-I

SECTION e-e

32Ø8@10-20c/c
L=155

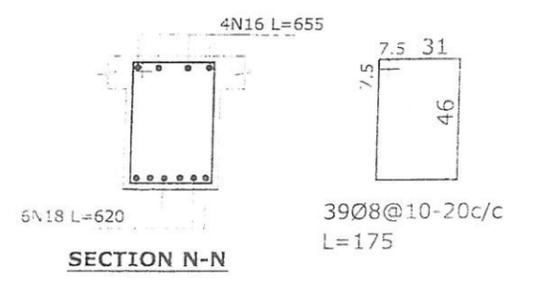
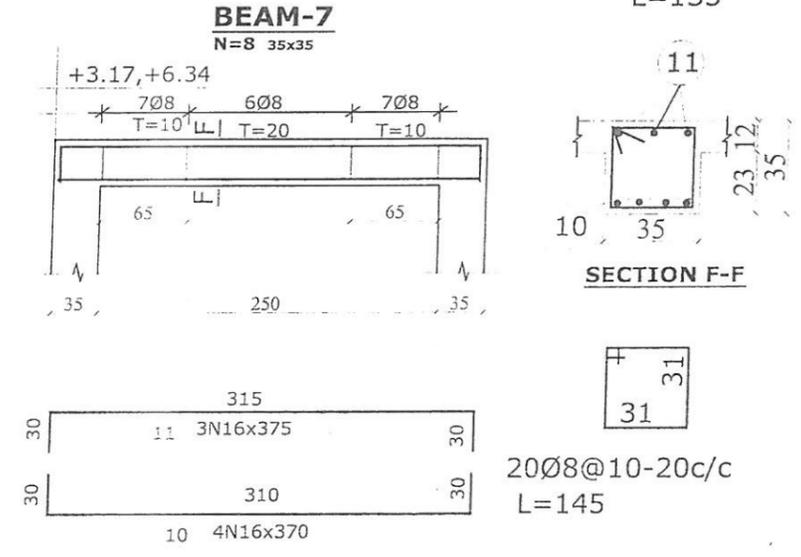
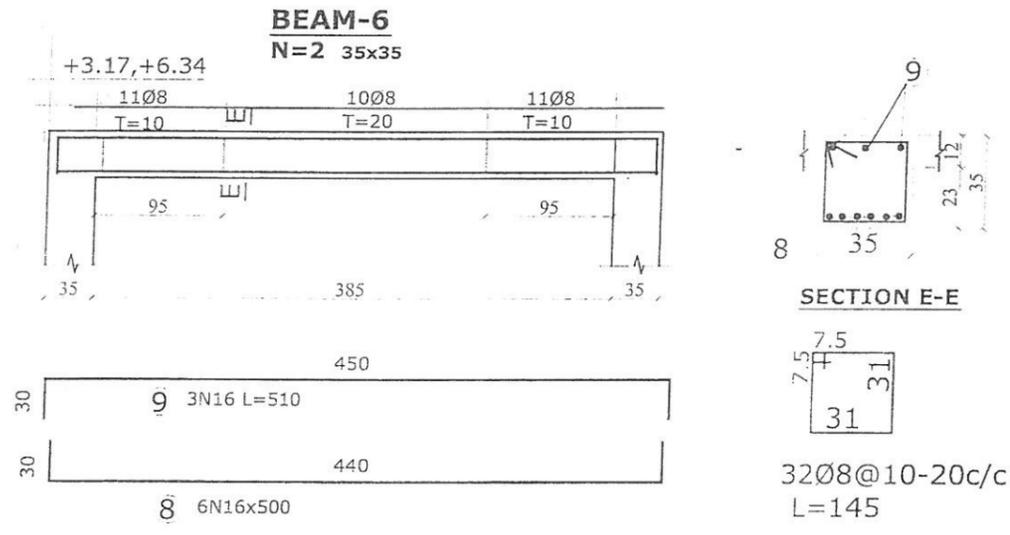
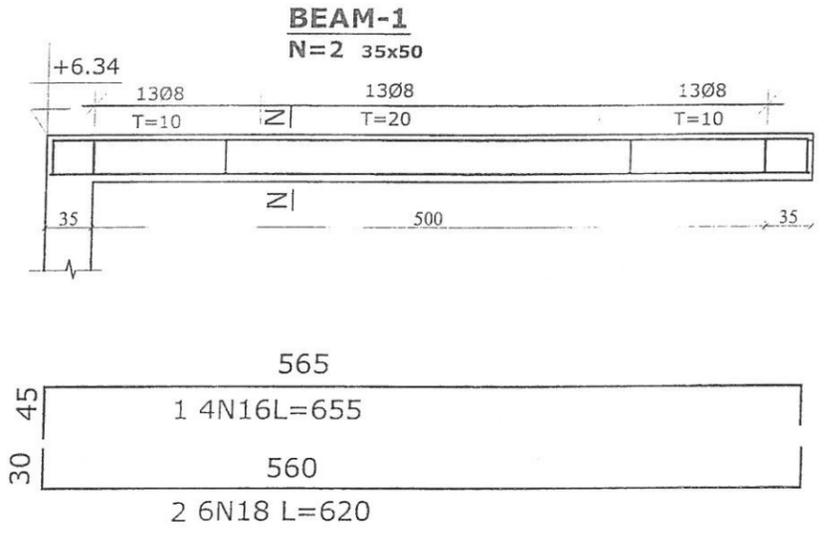
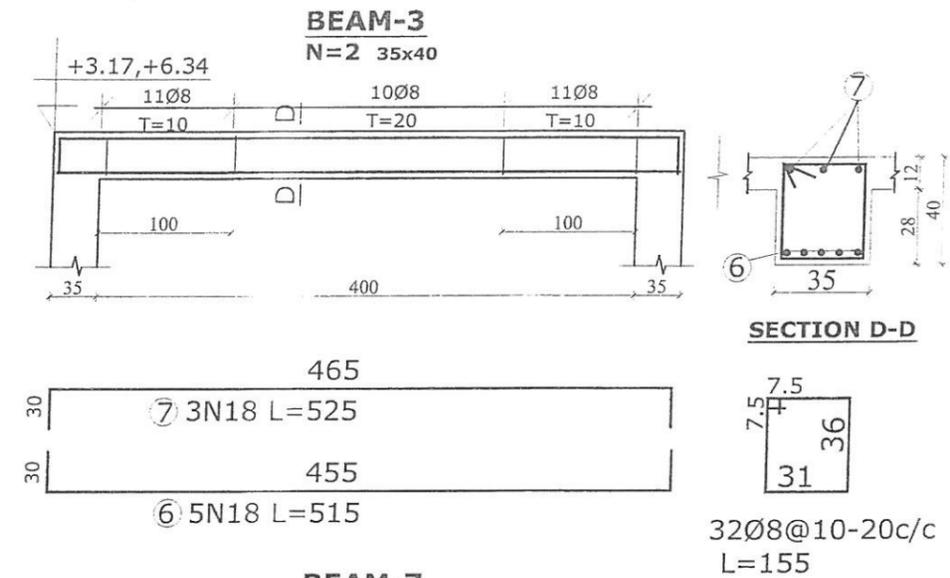
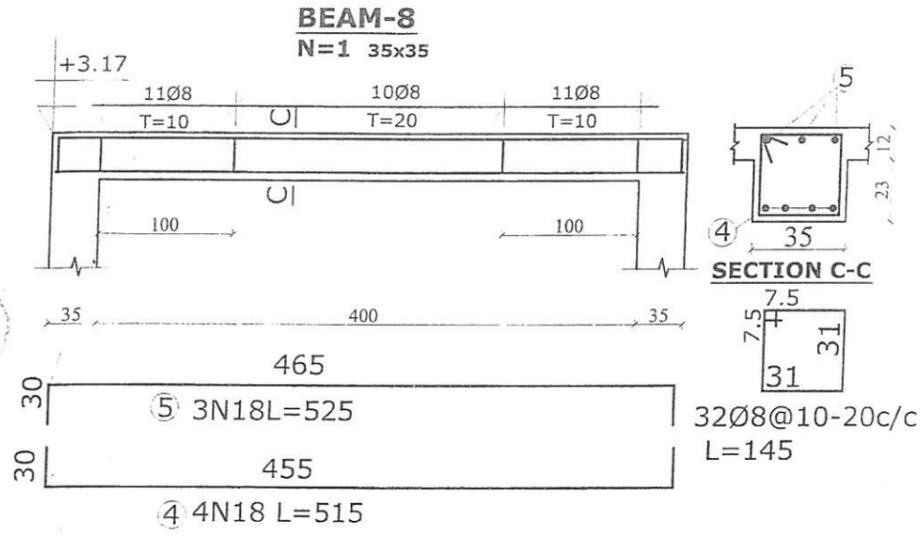


MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT/DESIGN	ENG.FARAH	APPROVED:Doc/Moe	ENG.M.MOHIMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME
TECH. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6.4.2015	30246	25 26	14 CLASS ROOM B BRICK RCC I. SHEET WITH COLUMPTER LAP AND LABORATORY
						DRAWING TITLE
						FRAME-I , FRAME-5



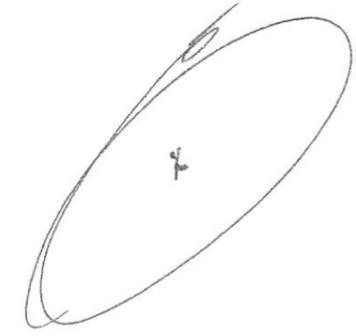
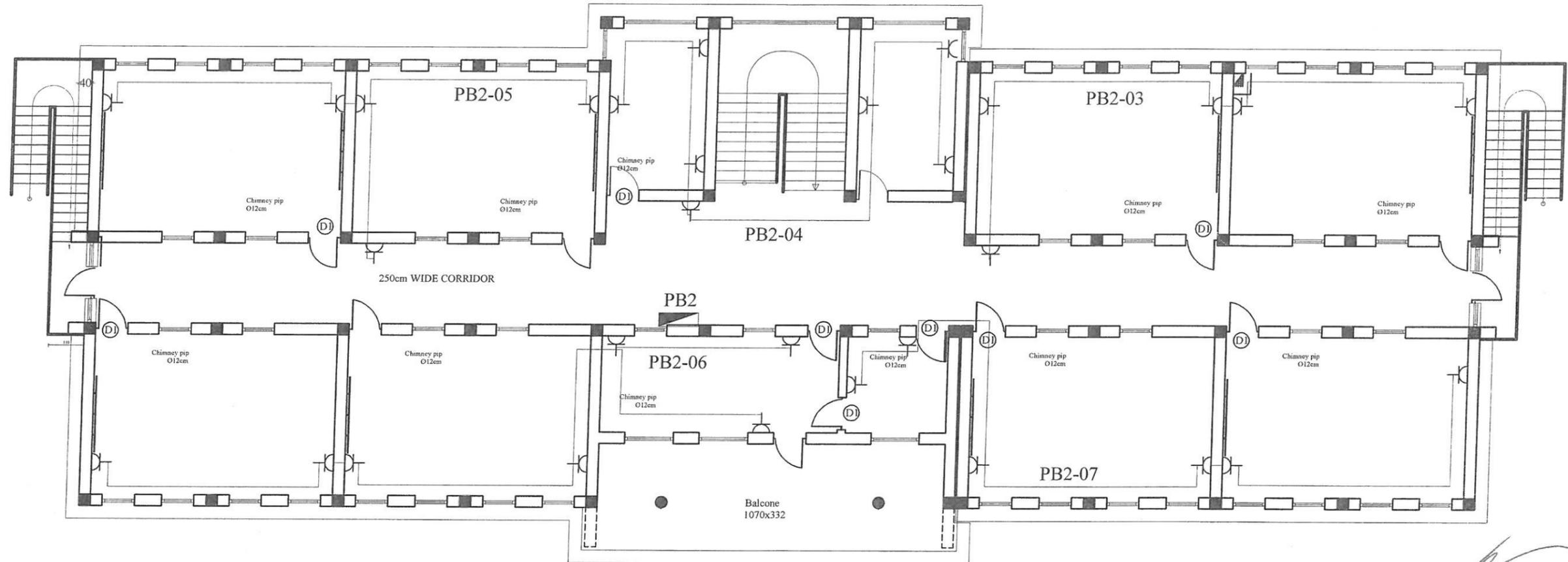
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STANDARD SCHOOL DESIGN
AFGHANISTAN

ARCHITECT DESIGN	ENG.FARAH	APPROVED:Doc/Moc	ENG.M.MOHMMEN RAD	DRAWING TYPE	STRUCTURE	PROVINCE	
RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	CODE	SHEET NO	PROJECT NAME	14 CLASS ROOM B BRICK RCC I SHEET WITH COUMPUTER LAP AND LABORATORY
TECH. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	6-4-2015		26	DRAWING TITLE	BEAM-1, BEAM-3, BEAM-8 BEAM-(7, 6)

SECOND FLOOR POWER PLAN



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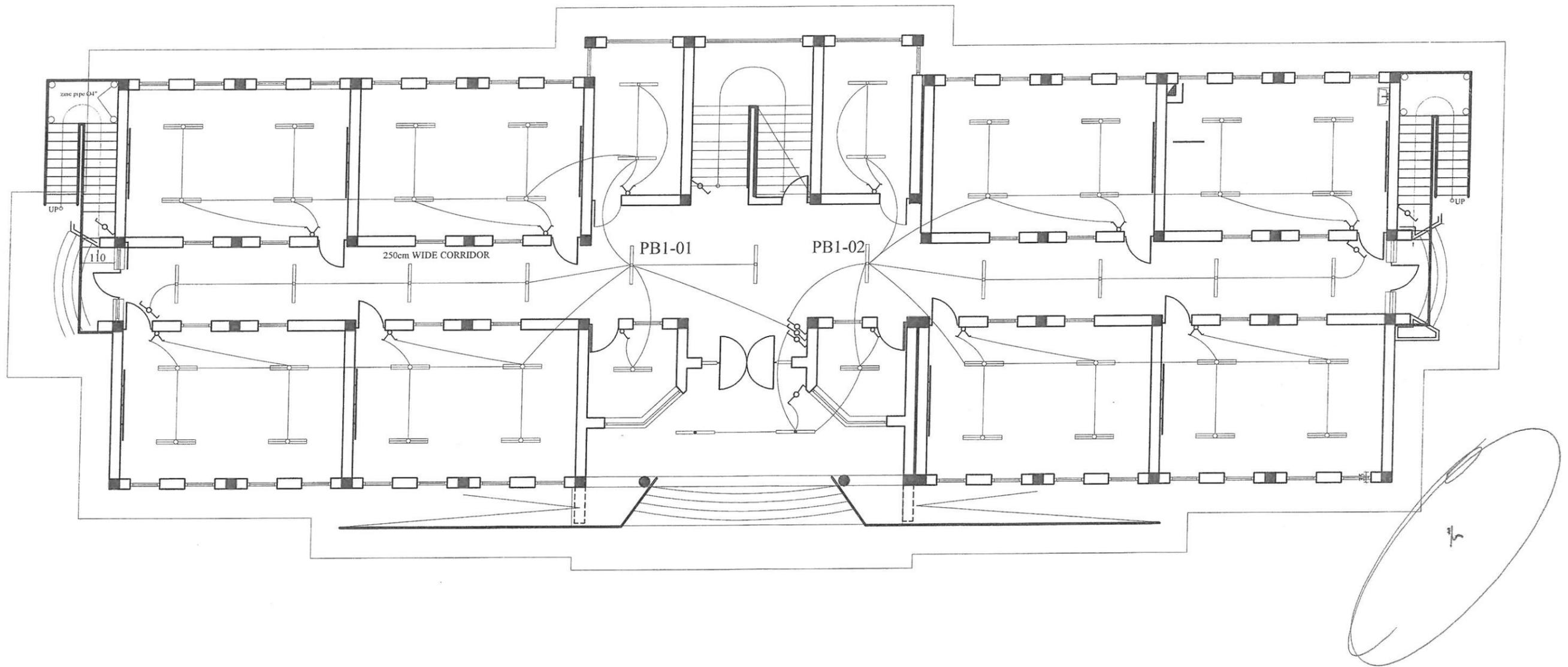


STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	Zabihullah Kotwal	APPROVED: Doc/Moc	ENG. Sayeed Mokhs Bazoon	DRAWING No	15
CHECKED BY		SCALE	AS SHOWN (A3)	SHEET No	3/5
TECH- APPROVED BY		DATE	15,1,2020		

PROJECT NAME	MOE SCHOOLS
DRAWING TITLE	VIEW AND PLAN

SECOND FLOOR LIGHTING PLAN



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	Zabihullah Kotwal	APPROVED: Doc/Moc	ENG. Sayeed Mokhs Bazoon	DRAWING No	215
CHECKED BY		SCALE	AS SHOWN (A3)	SHEET No	1/5
TECH- APPROVED BY		DATE	10,4,2019		

PROJECT NAME
DRAWING TITLE

MOE SCHOOLS DOOR
VIEW AND PLAN

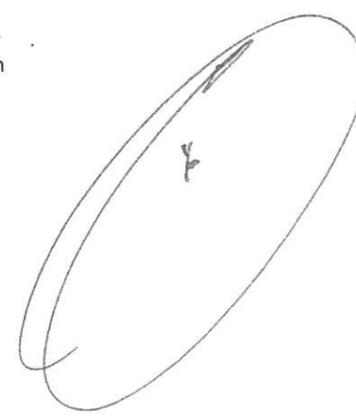
SPECIFICATION OF ELECTRICAL EQUIPMENT FOR TWO FLOOR

NO.	DESCRIPTION	SIGNS	UNIT	PIECES	REMARKS
1	FLUORESCENT LIGHT FIXTURE 2x36W, 50Hz, 220V		NO	69	
2	FLUORESCENT LIGHT FIXTURE 1x36W, 50Hz, 220V		NO	31	
3	FLUORESCENT LIGHT FIXTURE 1x36W, 50Hz, 220V water proof type		NO	6	
4	TWO POLE SWITCH UNDER PLASTER 10 AMP, 1PH		NO	21	
5	TWO WAY SWITCHES		NO	18	
6	SINGLE POLE SWITCH UNDER PLASTER, 10AMP, 1PH		NO	2	
7	SOCKET OUTLET - SINGLE PHASE		NO	67	
8	PANEL BOARD WITH 1x50Amp mine CB, 2X16AMP CB+RCBO, 10X20AMP CB+RCBO		NO	1	All CB 16&20Amp+RCBO.
9	PANEL BOARD WITH 1x40Amp mine CB, 2X16AMP CB+RCBO, 9X20AMP CB+RCBO		NO	1	All CB 16&20Amp+RCBO.
10	WIRE 1X2.5 mm ² copper good quality for lighting.		M	1600	
11	WIRE 1X4 mm ² copper good quality for lighting.		M	1400	
12	WIRE 1(3x10)mm ² copper from mine panel to distribution panel.		M	12	
13	PVC CONDUIT 1 INCH		M	30	
14	PVC CEILING JOINT BOX		M	20	
15	CABLE 1 (2x50mm ²) COPPER HIGH QUALITY FOR MINE LINE		M	50	If distance is more then /5meter take bigger size of cable, 1 (2x50mm ² copper high quality.
16	PVC CONDUIT 3 INCH		M	50	
17					

NOTES

- 1 Hight of sockets 450mm from floor.
- 2 Hight of switches 1350mm from floor.
- 3 Hight of penal boards & Mine penal board 1800mm the highest.
- 4 All wire 1x2.5 and 1x4mm 2 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 must be water prove type.
- 7 Connect Phase wire in CB and Neutral wire on RCBO.
- 8 MDP Mine Distribution Penal.
- 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 & 1x36W 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 Use 3 color wire Brown for phase Blue for neutral and Green with Yellow Stripe for grounding .
- 18 All wire in Penal board must have mark ..1,2,3 Which show the Circuit numbers.
- 19 All wire in penal boards must be in plastic cover .
- 20 Resistase of grounding should be not more then 250mes per NIC code.

RCBO(Residual Circuit Breaker Over Current)



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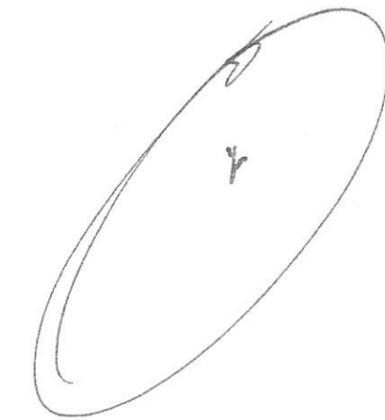
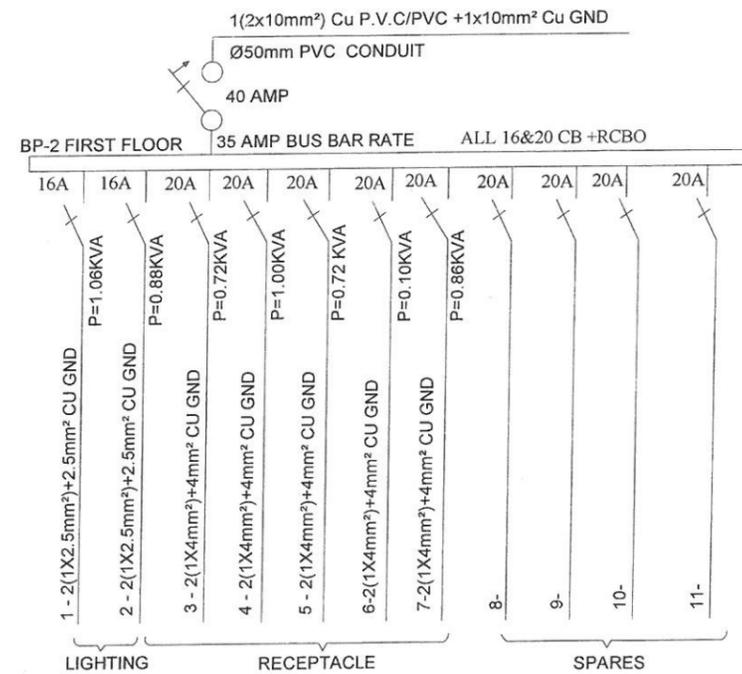
STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	Zabihullah Kotwal	APPROVED: Doc/Moc	ENG Sayeed Mokhs Bazoon	DRAWING No	345
CHECKED BY		SCALE	AS SHOWN (A3)	SHEET No	5/5
TECH- APPROVED BY		DATE	15.1.2020		

PROJECT NAME	MOE SCHOOLS
DRAWING TITLE	VIEW AND PLAN

PANEL SCHEDULE AND SINGLE LINE DIAGRAM

PANEL BOARD NAME : PB2 35 AMP BUS BAR RATE MAIN BREAKER :35 A PANEL LOCATION: FIRST FLOOR PANEL 220 VOLT , 1 PHASE , 3 WIRE , 50HZ 30KA ISC / 0.5 SEC RECESSED MOUNTED NAME ENCLOSURE															
WIRE ,CONDUIT AND DESCRIPTION			SINGLE PHASE			TRIP & CIRCUIT				SINGLE PHASE			WIRE ,CONDUIT AND DESCRIPTION		
WIRE AND CONDUIT	GND WIRE	DESCRIPTION	A (VA)	A (VA)	A (VA)	AMP	CKT	CKT	AMP	A (VA)	A (VA)	A (VA)	DESCRIPTION	GND WIRE	WIRE AND CONDUIT
2(1X2.5mm ²)Ø20mm	2.5mm ²	LIGHTING	1058.4000			16	1	2	16	885.6			LIGHTING	2.5mm ²	2(1X2.5mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE		720.0		20	3	4	20		1008.0		RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE			720.0	20	5	6	20			1008.0	RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE	864.0			20	7	8	20	0.0			SPARE		
		SPARE		0.0		20	9	10	20		0.0		SPARE		
		SPARE			0.0	20	11	12	20			0.0			
SUB - TOTAL IN (VA)			1922.4	720.0	720.0	-	-	-	-	885.6	1008.0	1008.0	SUB - TOTAL IN (VA)		
TOTAL PHASE (A) =			2808.0	12.8											
TOTAL PHASE (A) =			1728.0	7.9											
TOTAL PHASE (A) =			1728.0	7.9											
TOTAL CONNECTED LOAD			6264.0	28.5											
DEMAND FACTOR			0.7												
DEMAND LOAD			4384.8												
25% FUTURE LOAD			1096.2												
TOTAL LOAD			5481.0												
TOTAL AMPERE				24.9											
BREAKER SIZE				31.1											



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	KHALILULLAH Y.Z	APPROVED:Doc/Moe	ENG. Sayeed Mokhis Bazoon
CHECKED BY		SCALE	AS SHOWN (A4)
TECH- APPROVED BY		DATE	10.4.2019

DRAWING No	45
SHEET No	1/1

PROJECT NAME	MOE SCHOOLS DOOR
DRAWING TITLE	VIEW AND PLAN