

MINISTRY OF EDUCATION

MoE / Documents

Department of Construction / Technical Services

Documents

12 Class Rooms Mukhtar Malimin Secondary School

Location:

Mukhtar Village, Helmand Province

ARCHITECTURE

&

ENGINEERING

DESIGN

30-Oct.-2022

Mukhtar Malimin secondary School Site Plan Including Total Covered Area, Boundary Wall Length, Approved Sketch and Site Picture

S 1:100

Total Covered Area = 4050 Sq.m = 2.05 Jerb

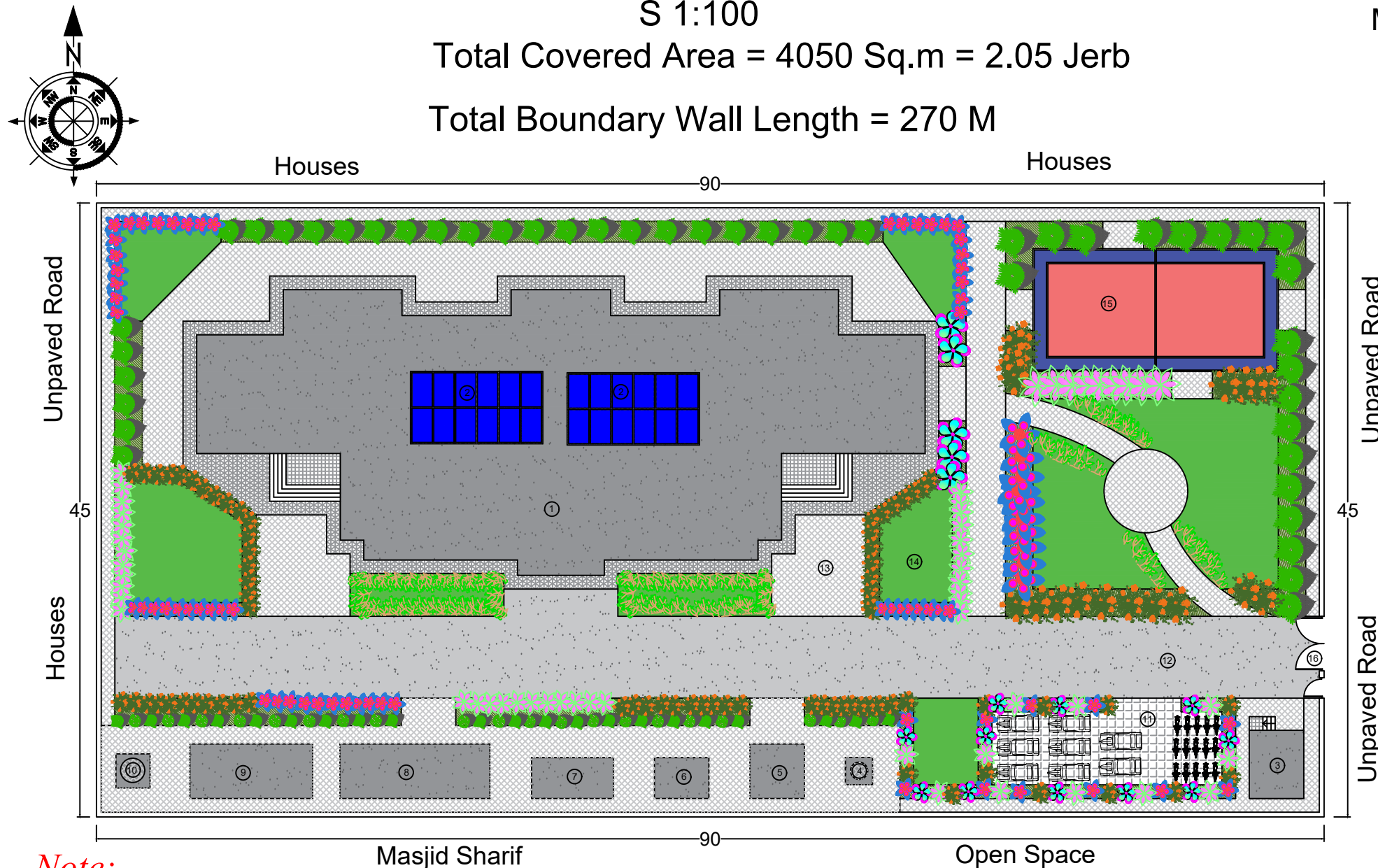
Total Boundary Wall Length = 270 M

Mukhtar Malimin School Observation

- 1 - Construction of Main Building.
- 2 - Installation of Solar system.
- 3 - Construction of Guard Room.
- 4 - Drilling of Deep Bore Well.
- 5 - Construction of Hand Wash.
- 6 - Construction of Generator Room.
- 7 - Construction of Water Elevated Tank.
- 8 - Construction of 6 Pcs Toilets.
- 9 - Construction of Septic Tank.
- 10 - Construction of Garbage Collection Points.
- 11 - Construction of Parking.
- 12 - Construction of Car Way.
- 13 - Construction of Walk Way and Side Walk.
- 14 - Construction of Volley Ball Play Ground.
- 15 - Construction of Green Area.
- 16 - Installation of Small and Large Steel Gates.

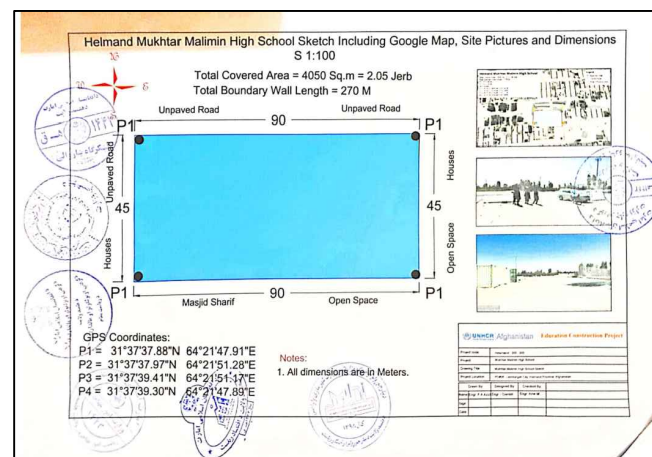


Site Pictures



Note:

- 1-All dimension are in meters .
- 2-PCC should be (1:2:4).
- 3-Stone Masonry Ratio Should be (1:4).
- 4-Brick Masonry Ratio Should be (1:3).
- 5-RCC Concrete Ratio Should be (1:1,5:3).
- 6-All Reinforcements steel bars should not be eroded or lubricated and has to be clean.
- 7-All steel bars should be Class A .
- 8- All steel bars should be Grade 60.
- 9-The Curing of RCC Concrete should not be less then (28) days.



Approved Sketch

UNHCR | Afghanistan **Education Construction Project**

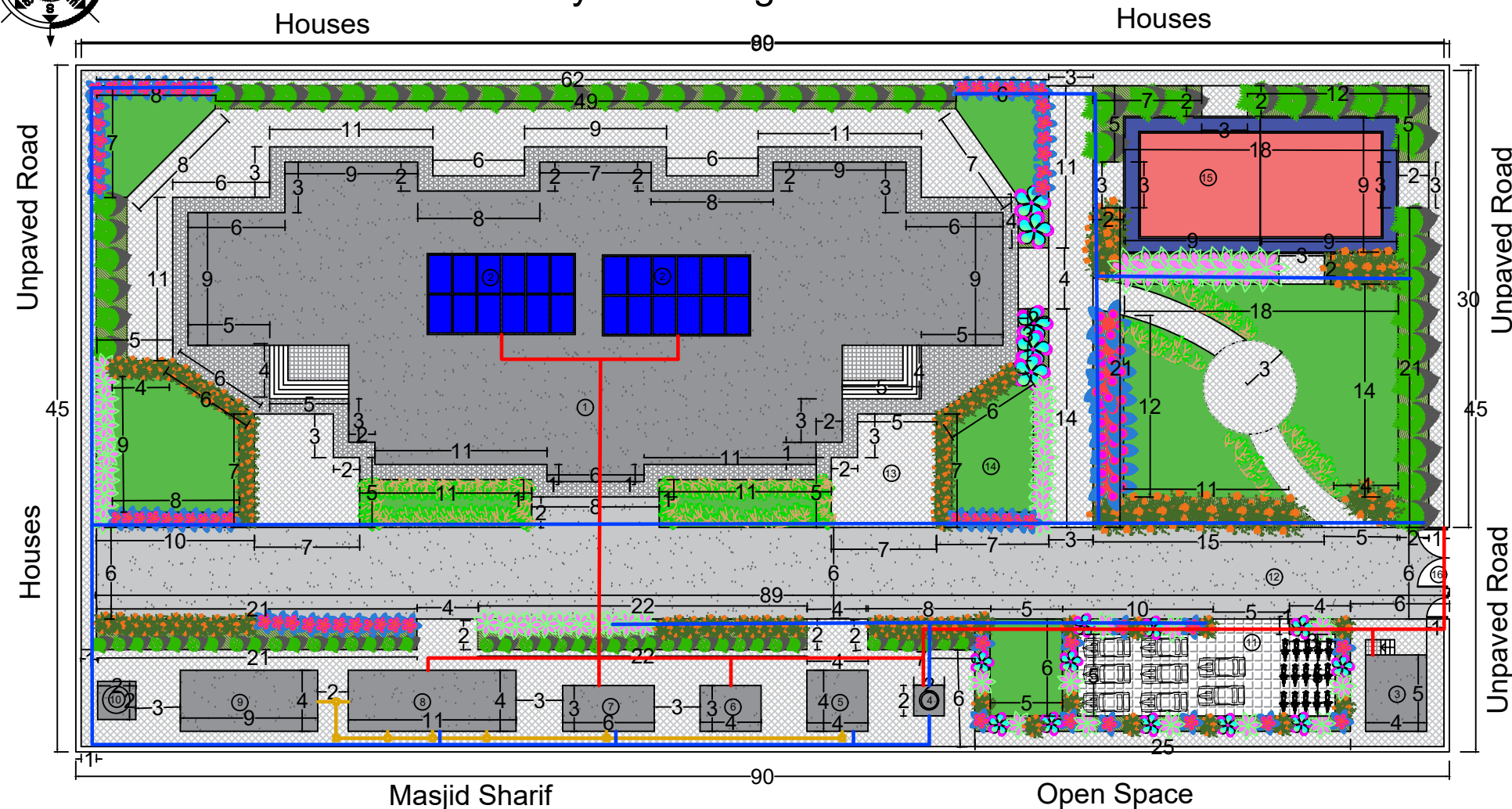
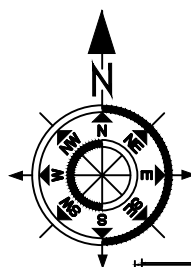
Project code	Helamand - 000 - 000
Project	New Construction of Mukhtar Malimin High School Including Wash and Other Facilities
Drawing Title	Mukhtar Malimin High School Site Plan
Project Location	PD#06, Lashkargah City, Helmand Province, Afghanistan

Drawn By:	Designed By:	Checked By:	
Name Engr. I Danish	Engr. I Danish	Engr. Amir M	
Sign			
Date			

Mukhtar Malimin secondary School Site Plan Including All Structures Dimensions,Electrical, Plumbing and Sewer Line System
S 1:100

Total Covered Area = 4050 Sq.m = 2.05 Jerb

Total Boundary Wall Length = 270 M



Mukhtar Malimin School Observation

- 1 - Construction of Main Building.
- 2 - Installation of Solar system.
- 3 - Construction of Guard Room.
- 4 - Drilling of Deep Bore Well.
- 5 - Construction of Hand Wash.
- 6 - Construction of Generator Room.
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- 16 - Installation of Small and Large Steel Gates.

Observation Of Plumbing, Sewerage and Electrical System in Site Plan

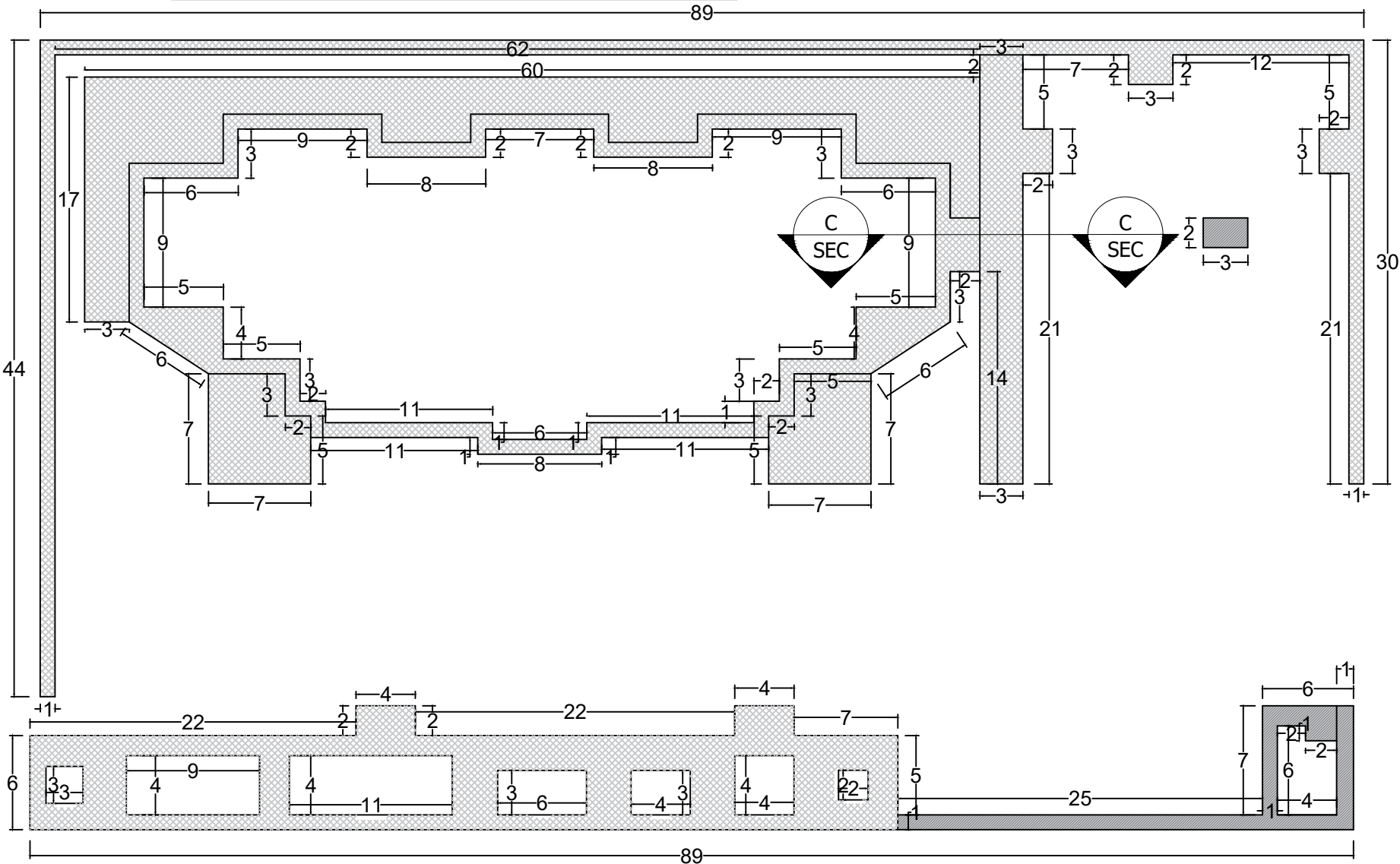
- 1 — The Red Colors Line Shows the Electrical System From Generator Room to Main Building or Other Portions.
Total Electrical conduit pipe length 110 M
- 2 — The Green Colors Line Shows the Plumbing System From Bore well to Water Elevate Tank to Other Portions.
Total plumbing pipe length 291 M
- 3 — The Grey Colors Line Shows the Sewerage System From 6 Pcs Toilets and other portions to Septic Tank.
Total Sewerage pipe length 45 M

Project code	Helamand - 000 - 000		
Project	New Construction of Mukhtar Malimin High School Including Wash and Other Facilities		
Drawing Title	Mukhtar Malimin High School Site Plan Electrical, Plumbing and Sewer Line System		
Project Location	PD#06, Lashkargah City, Helmand Province, Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			

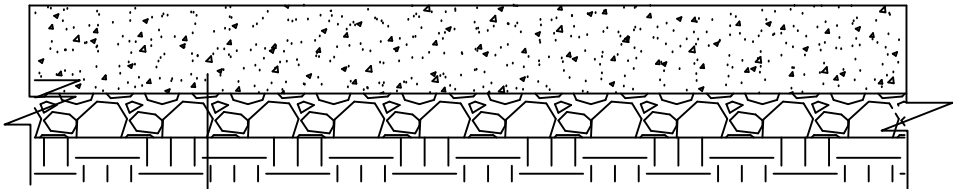
Mukhtar Malimin secondary School Walk Way, Side Walk and Volley Ball Play Ground Sections With Details

S 1:100

Plan of Walk Way and Side Walk



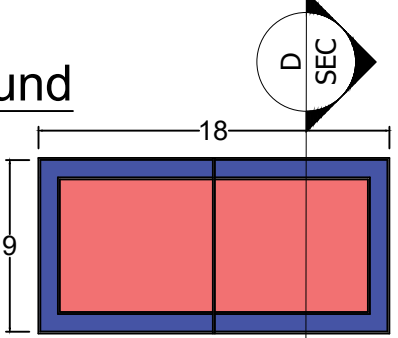
Section (C-C)



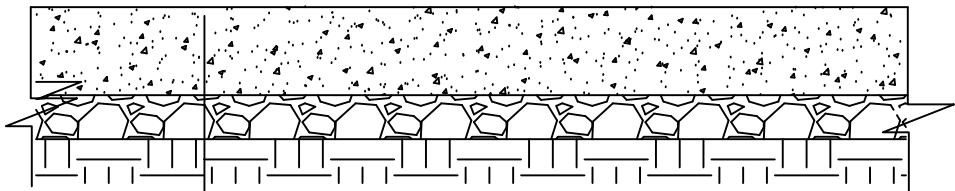
PCC M: 200 = 100mm
Compacted Gravel = 50mm
Compacted Soil

Total Area = 1121 Sq.m
Total site leveling = 1121 Sq. m
Total PCC = 112.1 Cu. m
Total Graveling = 56 Cu. m

Plan of Walk Play Ground



Section (D-D)



PCC M: 200 = 100mm
Compacted Gravel = 50mm
Compacted Soil

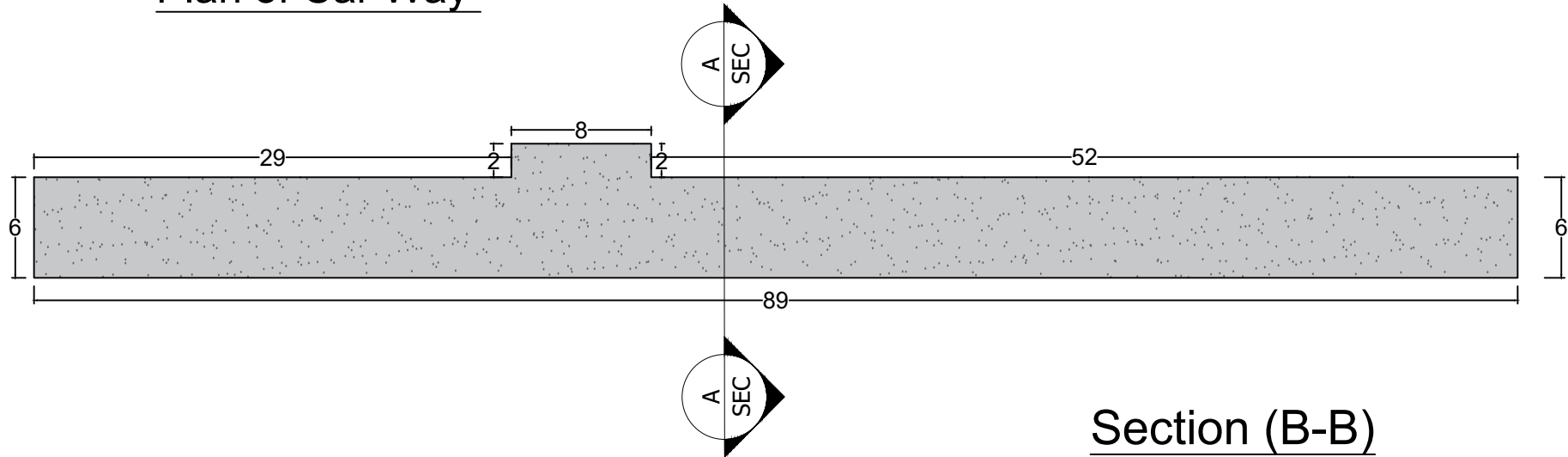
Total Area = 162 Sq.m
Total site leveling = 162 Sq. m
Total PCC = 16.2 Cu. m
Total Graveling = 8.1 Cu. m
Total Painting = 162 Sq. m

UNHCR Afghanistan Education Construction Project

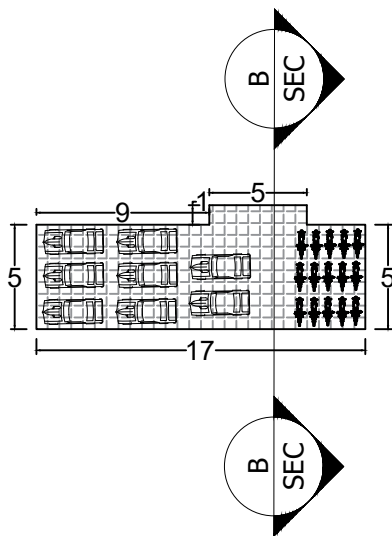
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Project	New Construction of Mukhtar Malimin High School Including Wash and Other Facilities		
Drawing Title	Mukhtar Malimin High School Walk Way and Volley Ball Section With Details		
Project Location	PD#06, Lashkargah City, Helmand Province, Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			

Mukhtar Malimin secondary School Car Way and Parking Sections With Details
S 1:100

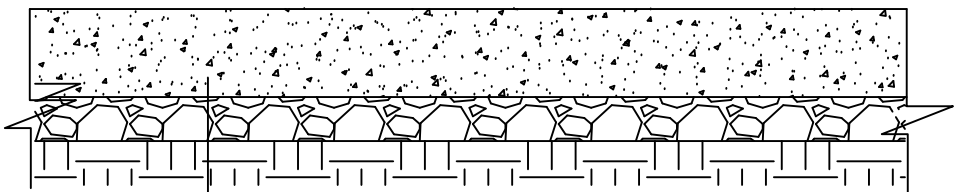
Plan of Car Way



Plan of Parking

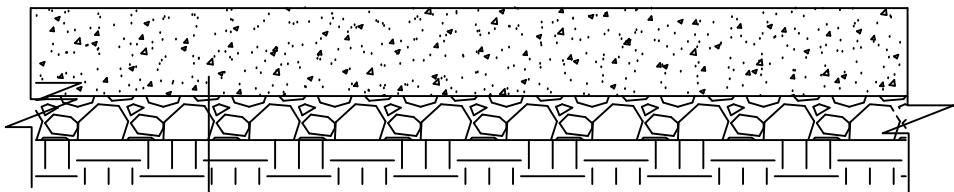


Section (B-B)



PCC M: 200 = 100mm
Compacted Gravel = 50mm
Compacted Soil


Section (A-A)



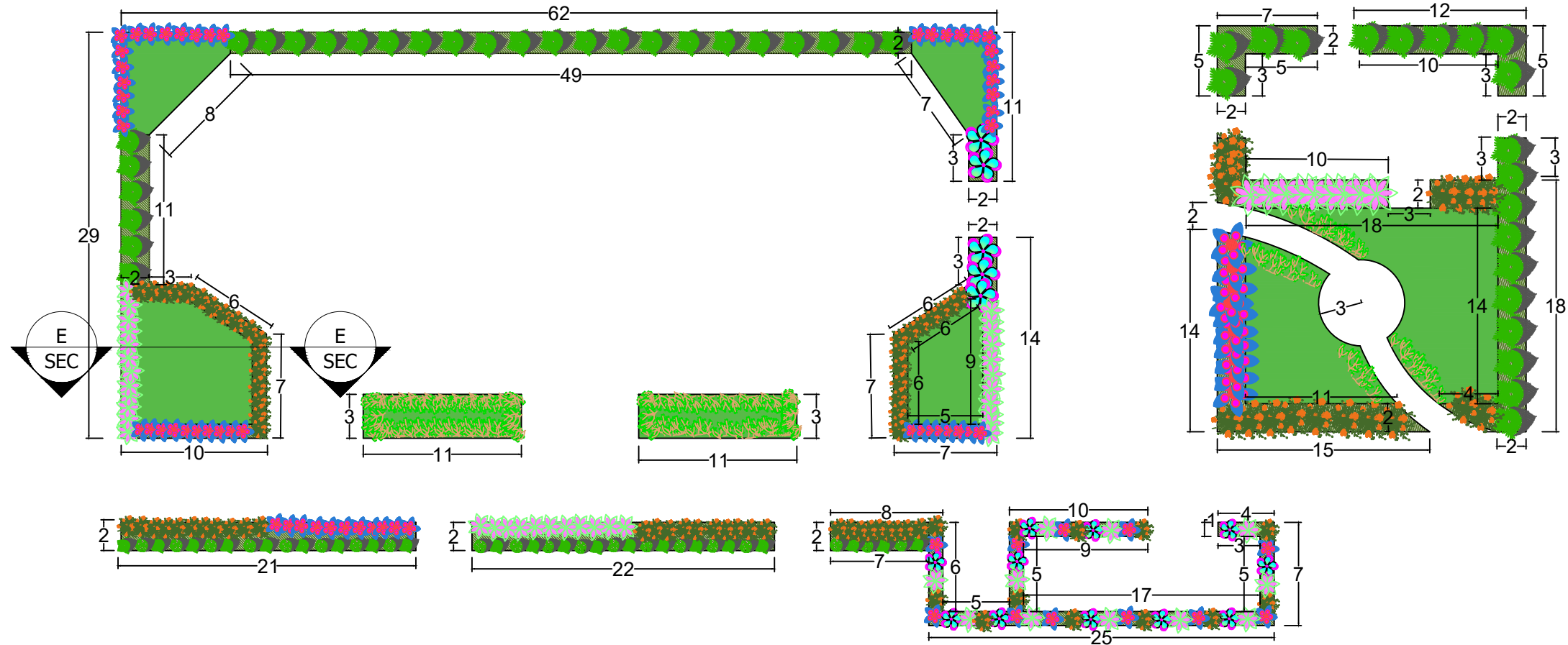
PCC M: 200 = 100mm
Compacted Gravel = 50mm
Compacted Soil

Total Area = 548 Sq.m
Total site leveling = 548 Sq. m
Total PCC = 54.8 Cu. m
Total Graveling = 27.4 Cu. m

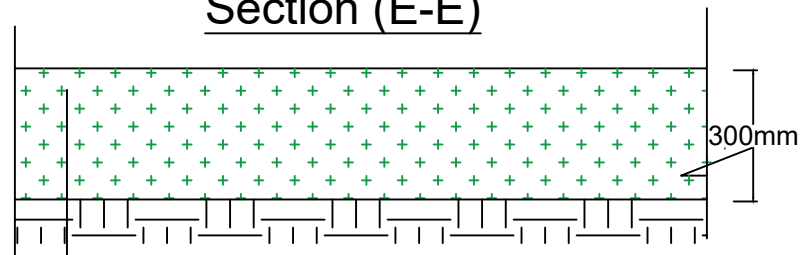
Total Area = 95 Sq.m
Total site leveling = 95 Sq. m
Total PCC = 9.5 Cu. m
Total Graveling = 4.75 Cu. m

 UNHCR Afghanistan Education Construction Project			
Project code	Helamand - 000 - 000		
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Drawing Title	Mukhtar Malimin High School Car Way and Parking Section With Details		
Project Location	PD#06, Lashkargah City, Helmand Province, Afghanistan		
Drawn By:		Designed By:	Checked By:
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			

Plan of Green Area




Section (E-E)

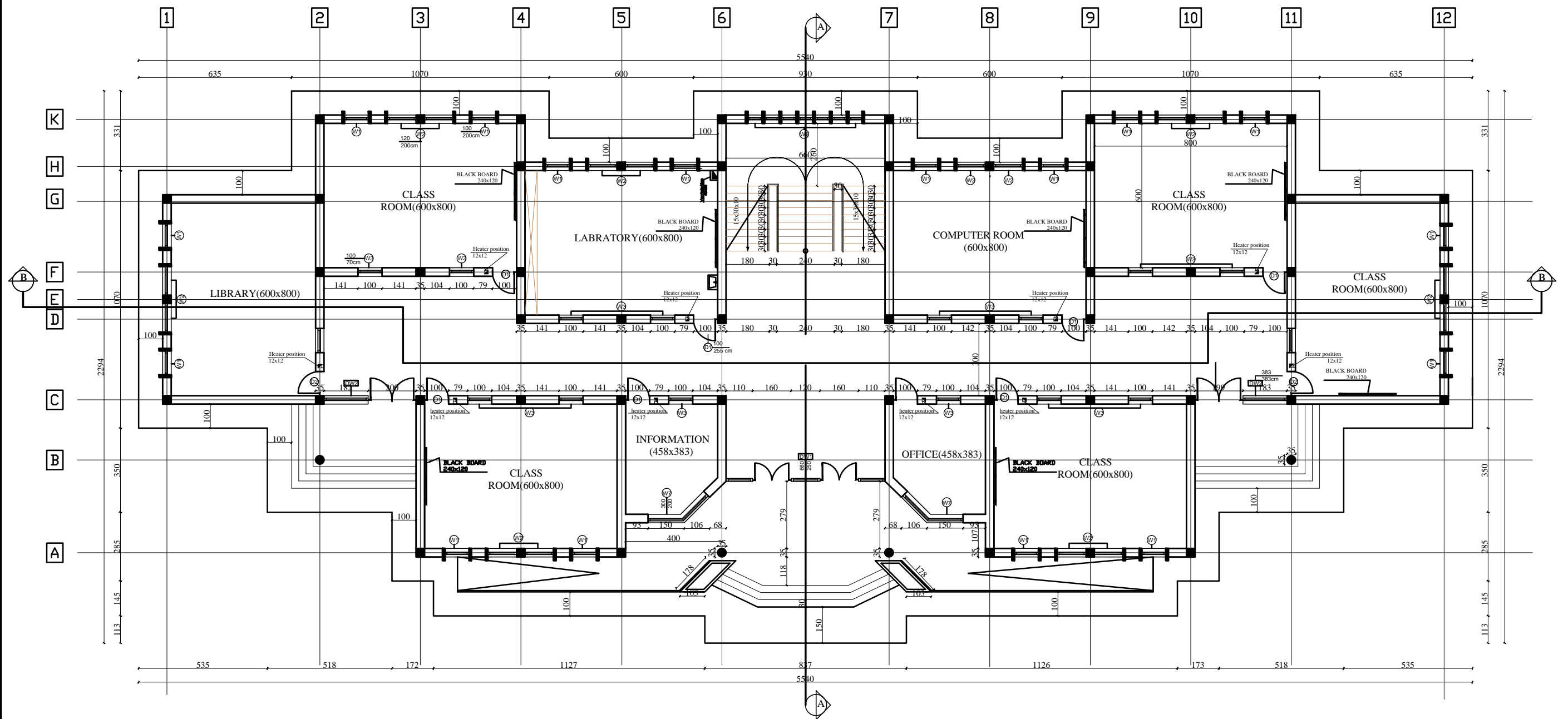


Planted Turf Seed/Grass or Trees/Flowers
Agriculture Soil Thickness = 300mm
Excavation Thickness = 300mm
Compacted Soil

Planting Trees and Flower = 80 N

	UNHCR <small>The UN Refugee Agency</small>	<h1 style="margin: 0;">Afghanistan</h1>	<h2 style="margin: 0; color: #E67E22;">Education Construction Project</h2>
Project code	Helamand - 000 - 000		
Project	New Construction of Mukhtar Malimin High School Including Wash and Other Facilities		
Drawing Title	Mukhtar Malimin High School Green Area Section With Details		
Project Location	PD#06, Lashkargah City, Helmand Province, Afghanistan		

Drawn By:	Designed By:	Checked By:	
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			

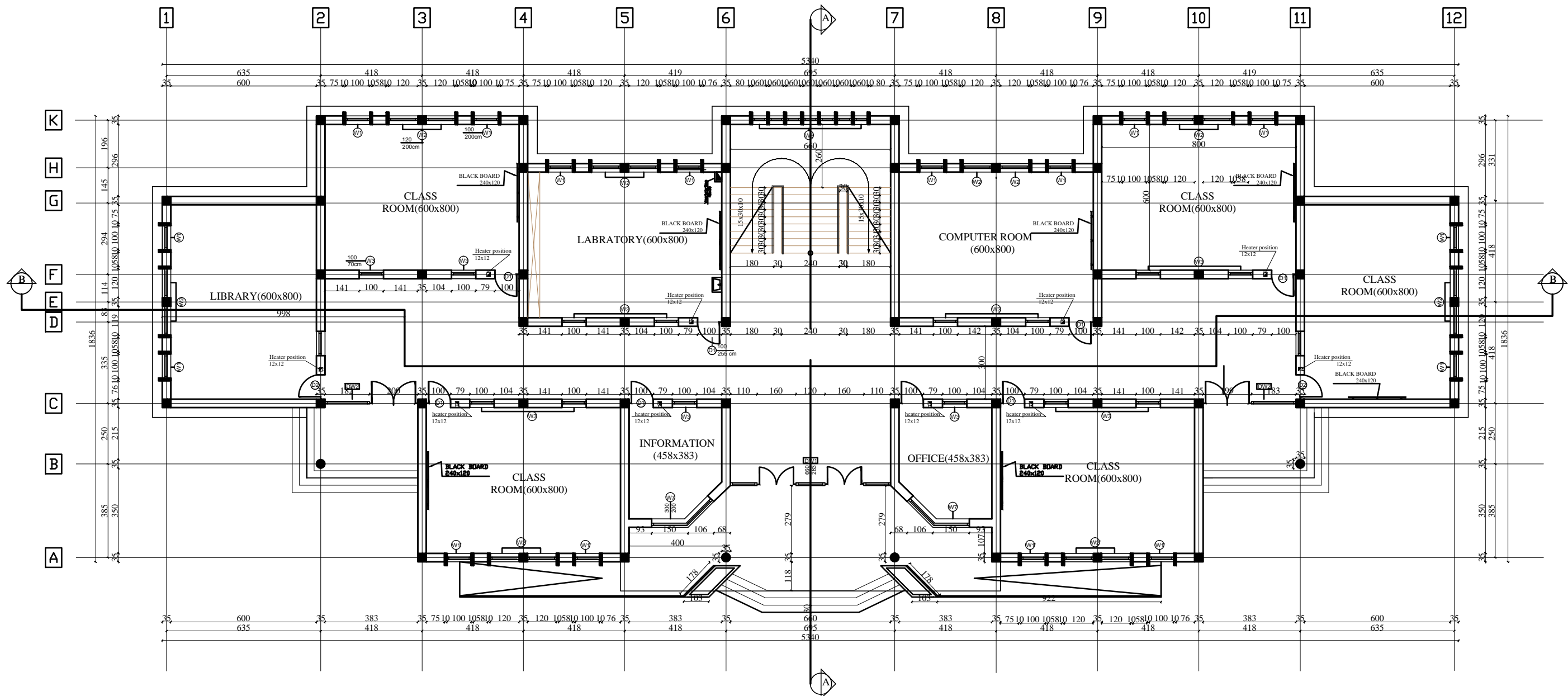


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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABORATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN (A3)	SHEET No		DRAWING TITLE	PAVEMENT PLAN
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013		1 23		

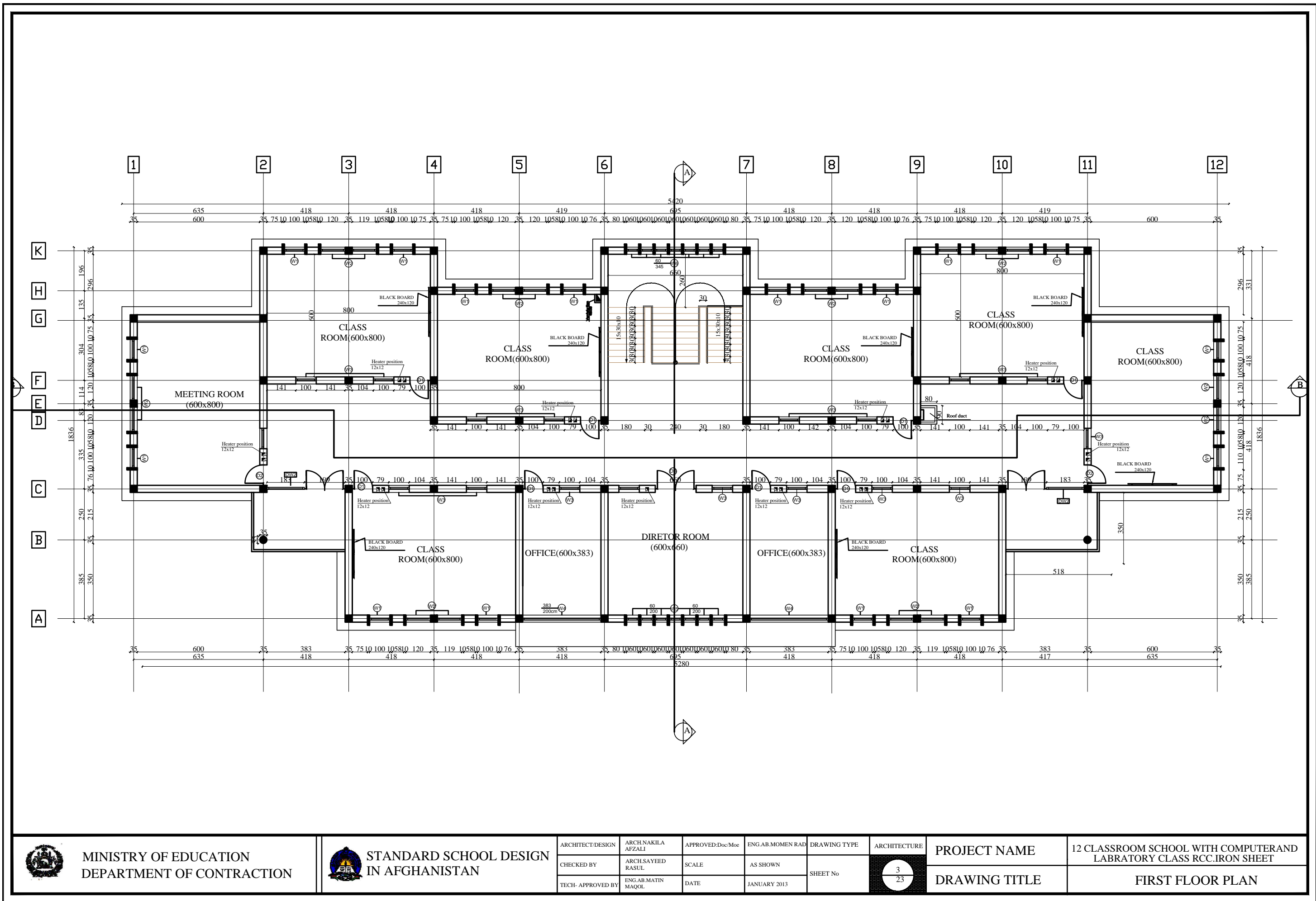


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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABORATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN (A3)	SHEET No		DRAWING TITLE	GROUND FLOOR PLAN
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013		2 23		



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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTERAND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCHLSAYEED RASUL	SCALE	AS SHOWN	SHEET No	3 23	DRAWING TITLE	FIRST FLOOR PLAN
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				

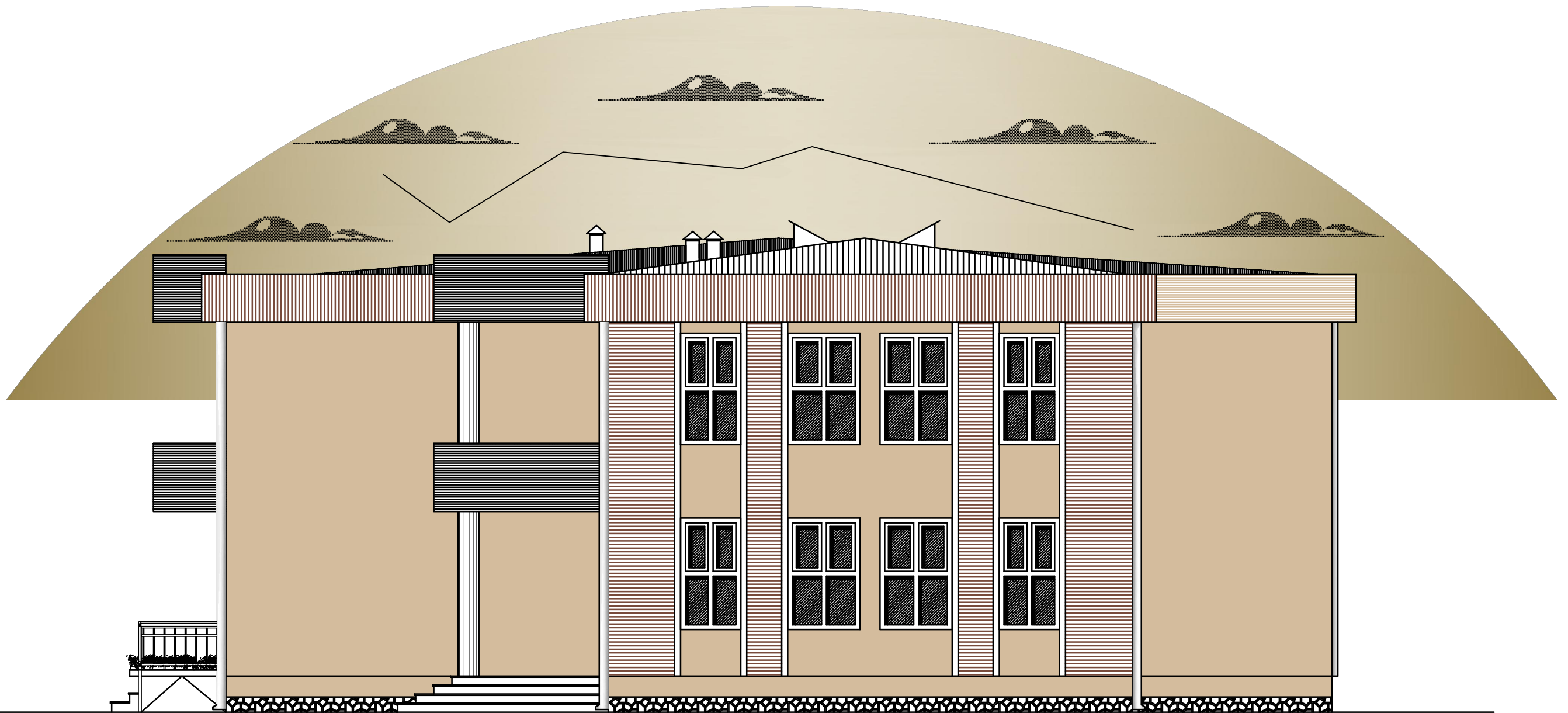


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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCHLSAYEED RASUL	SCALE	AS SHOWN	SHEET No	4 23	DRAWING TITLE	FRONT ELEVATION
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				

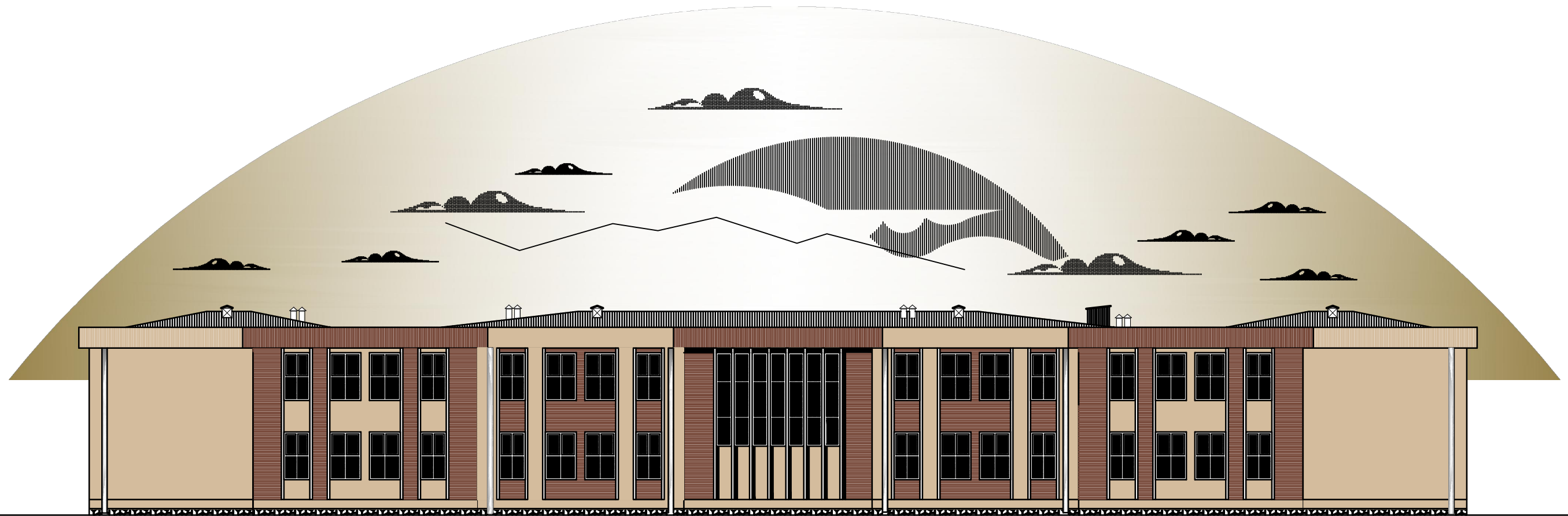


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CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	5 23	DRAWING TITLE	SIDE ELEVATION
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				

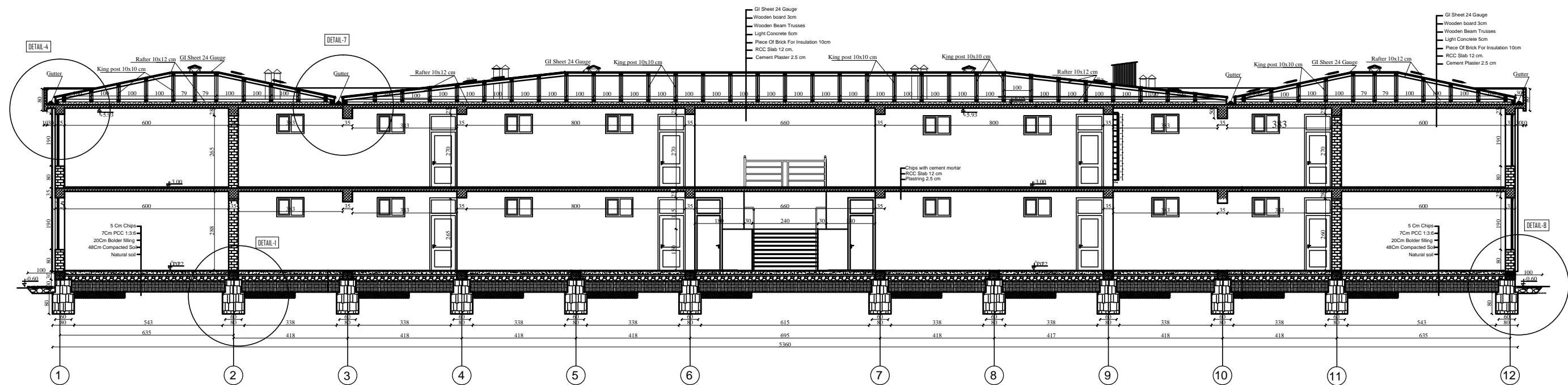


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CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	6 23	DRAWING TITLE	BACK ELEVATION
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				



SECTION B-B

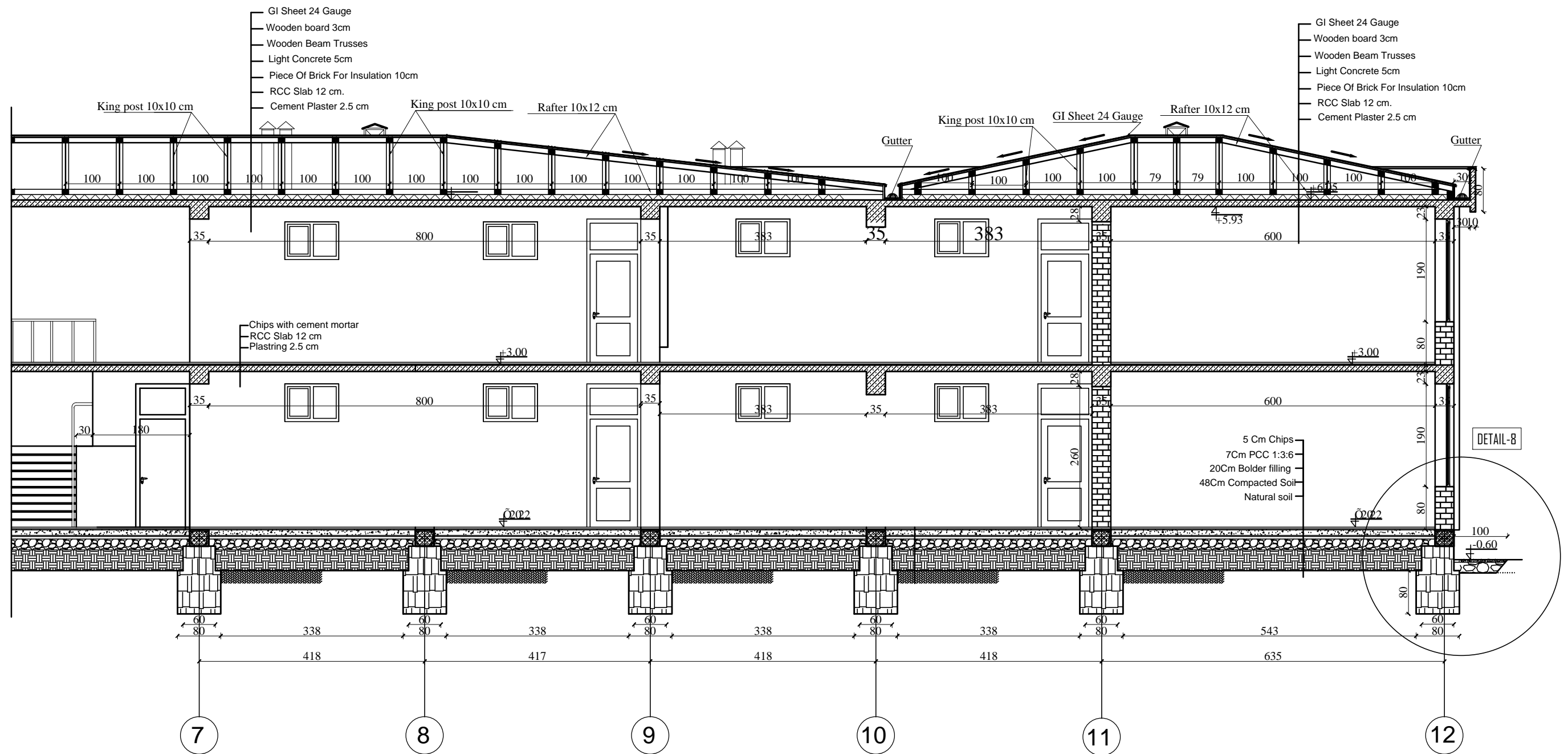


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CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	8 23	DRAWING TITLE	SECTION B-B
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				

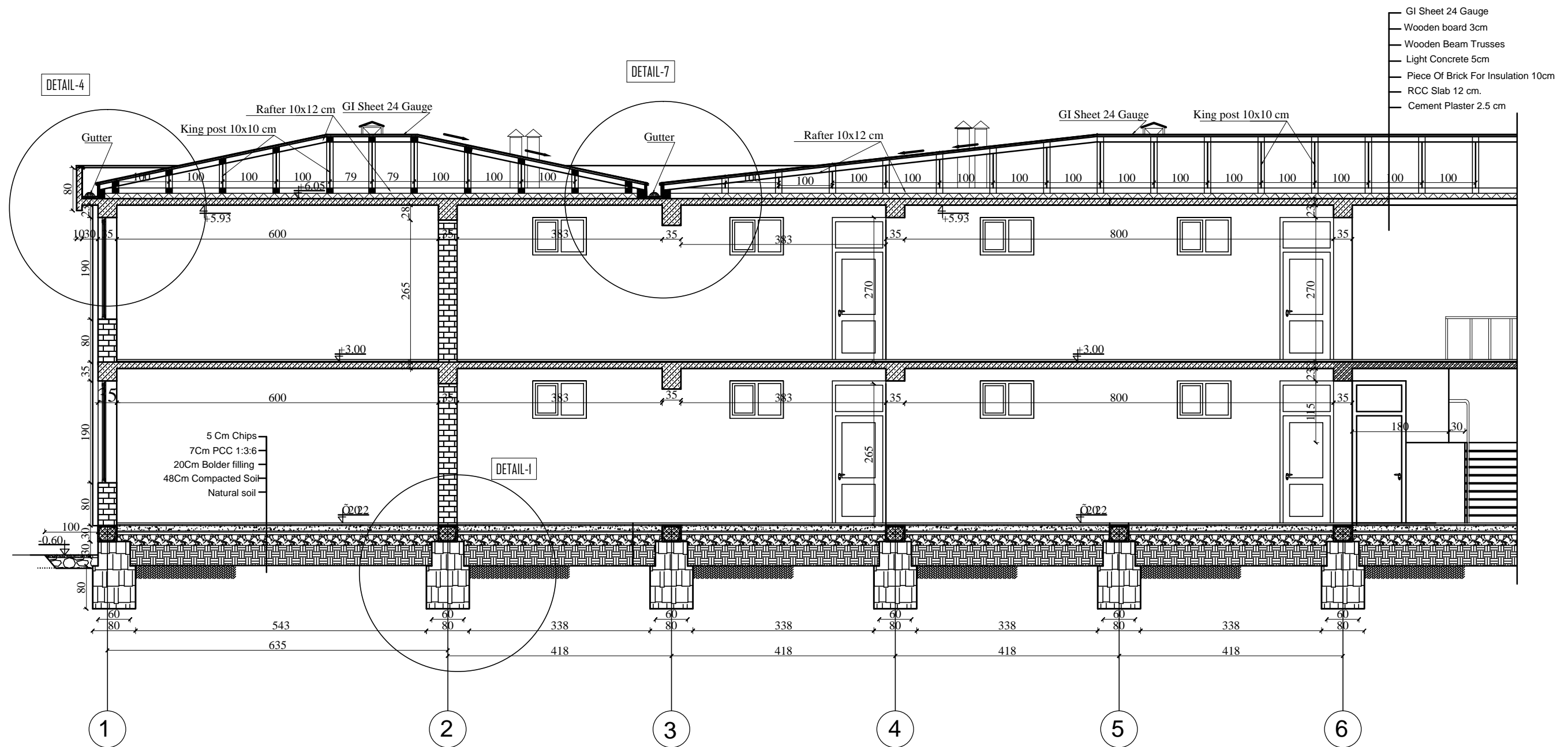


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CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	9 23	DRAWING TITLE	PART OF SECTION B-B
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				

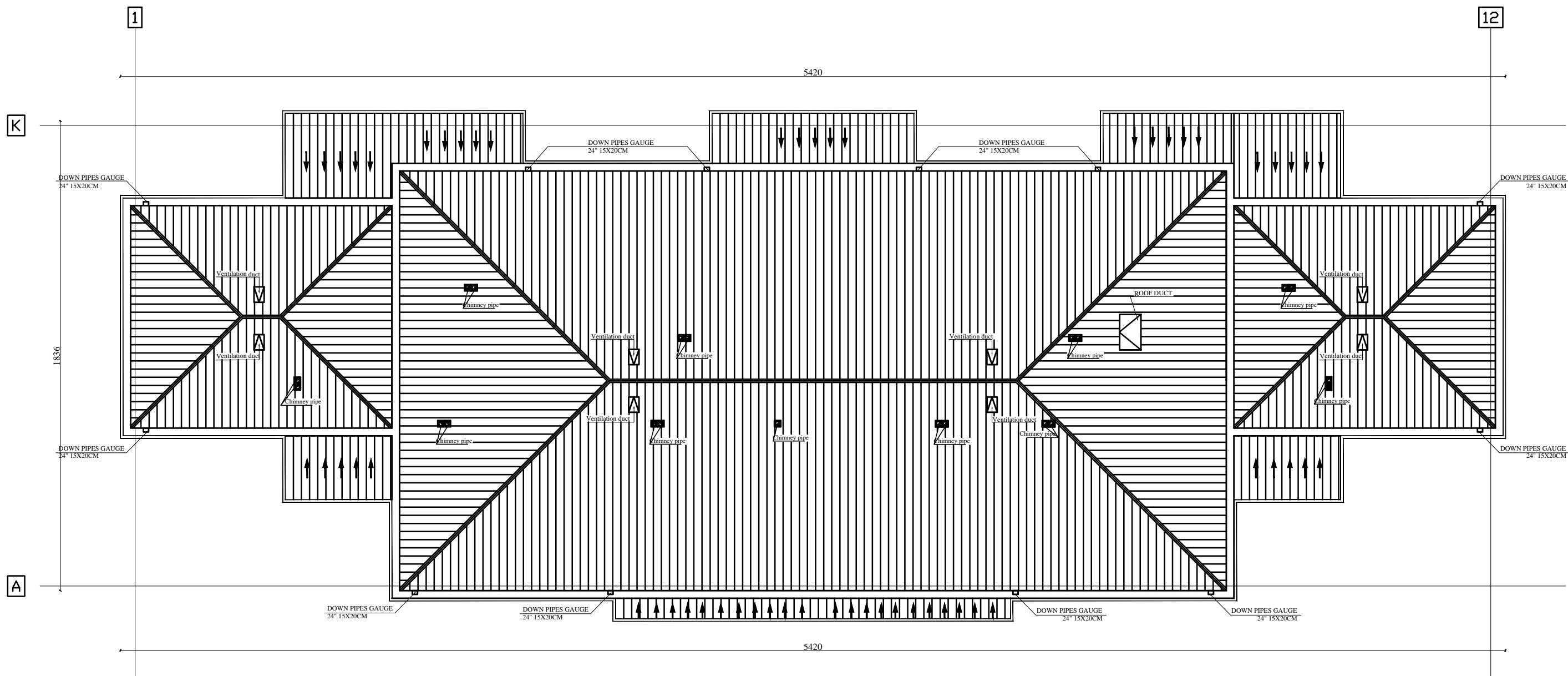


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CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	10 23	DRAWING TITLE	SECTION B-B DETAIL
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	JANUARY 2013				



Note: Roof Truss are not included in all portions of this project

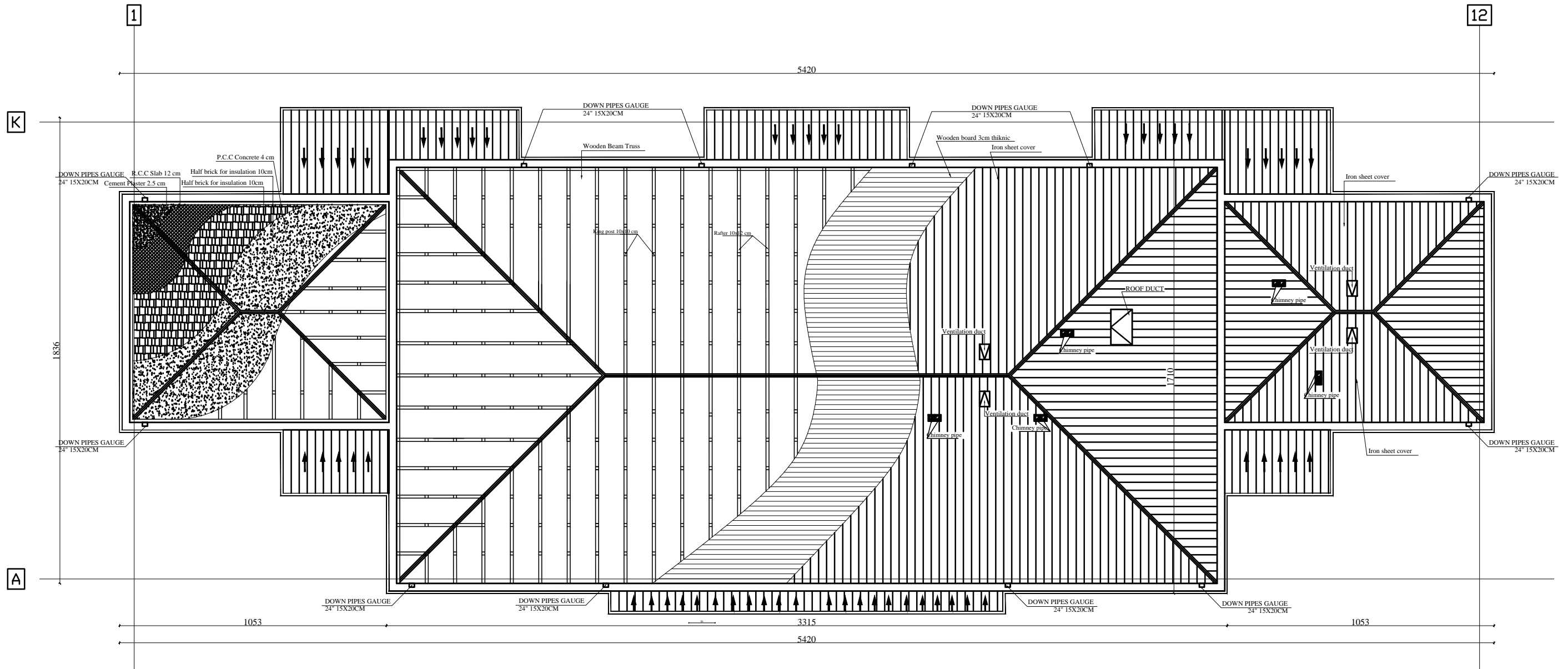


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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	11 23	DRAWING TITLE	ROOF PLAN
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				



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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No	
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012		

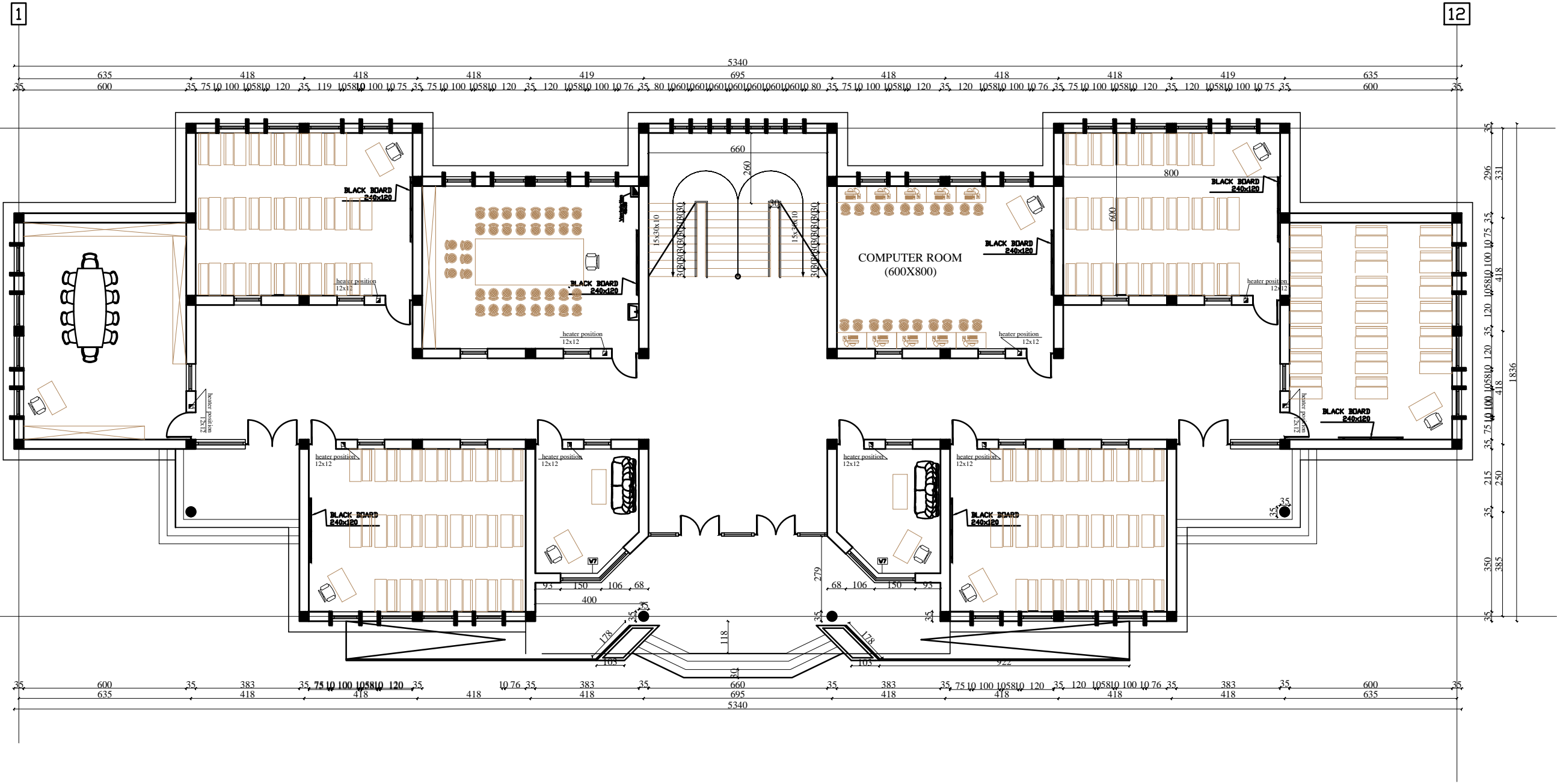
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PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

ROOF PLAN DETAIL

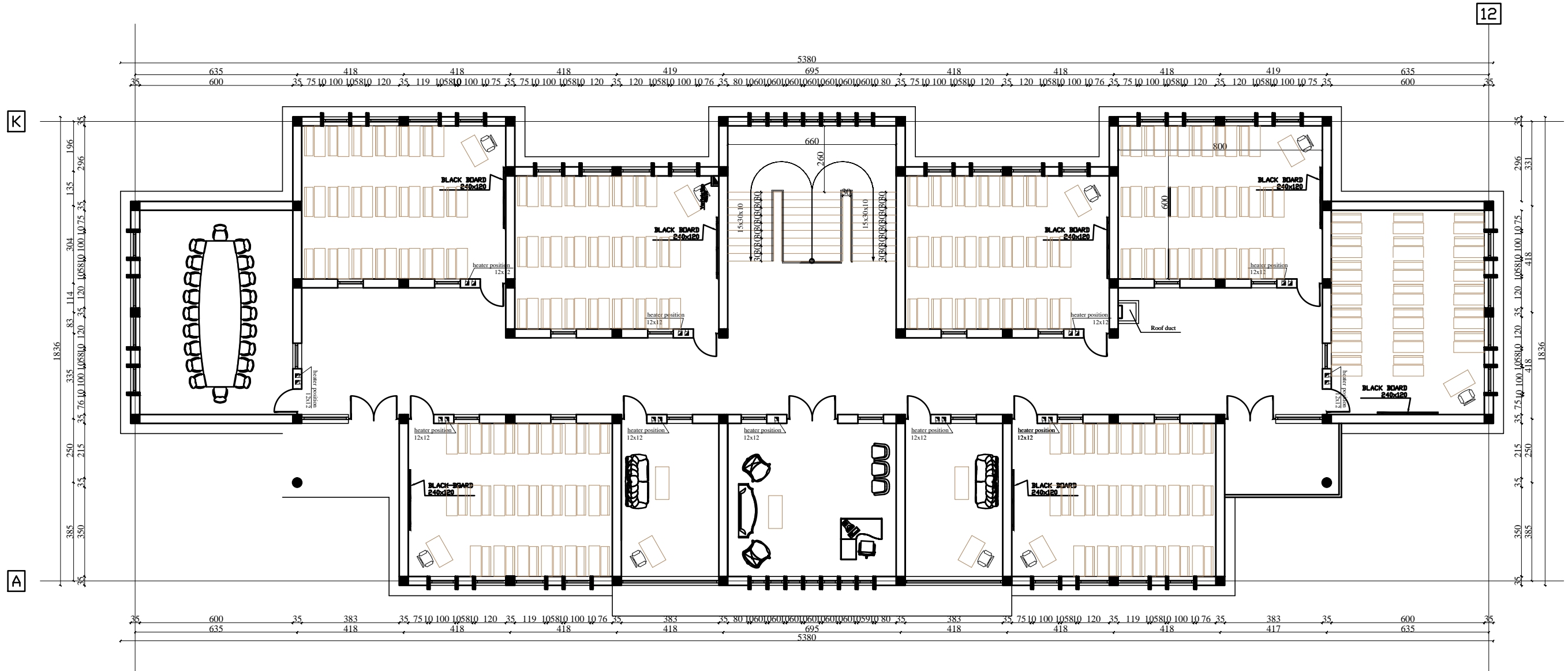


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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No		DRAWING TITLE	FURNATURE PLAN
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012		13 23		

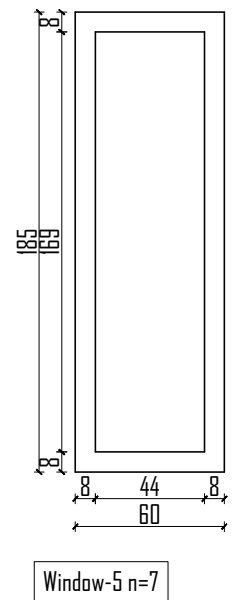
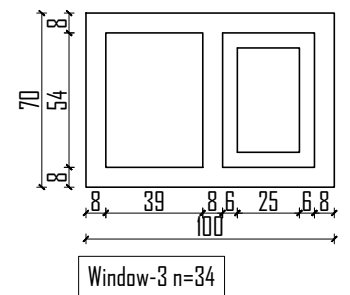
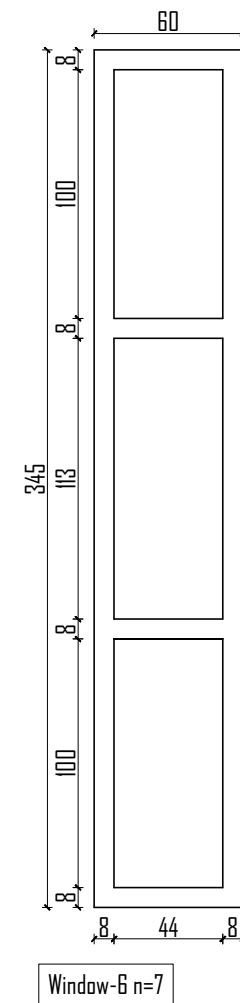
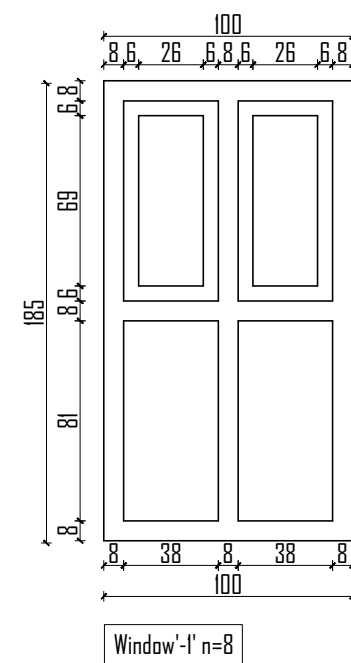
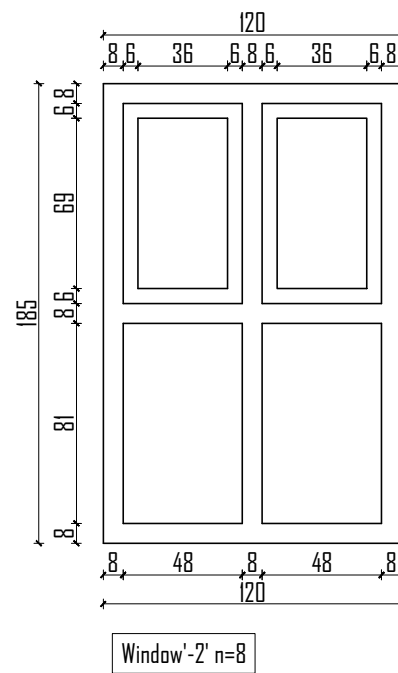
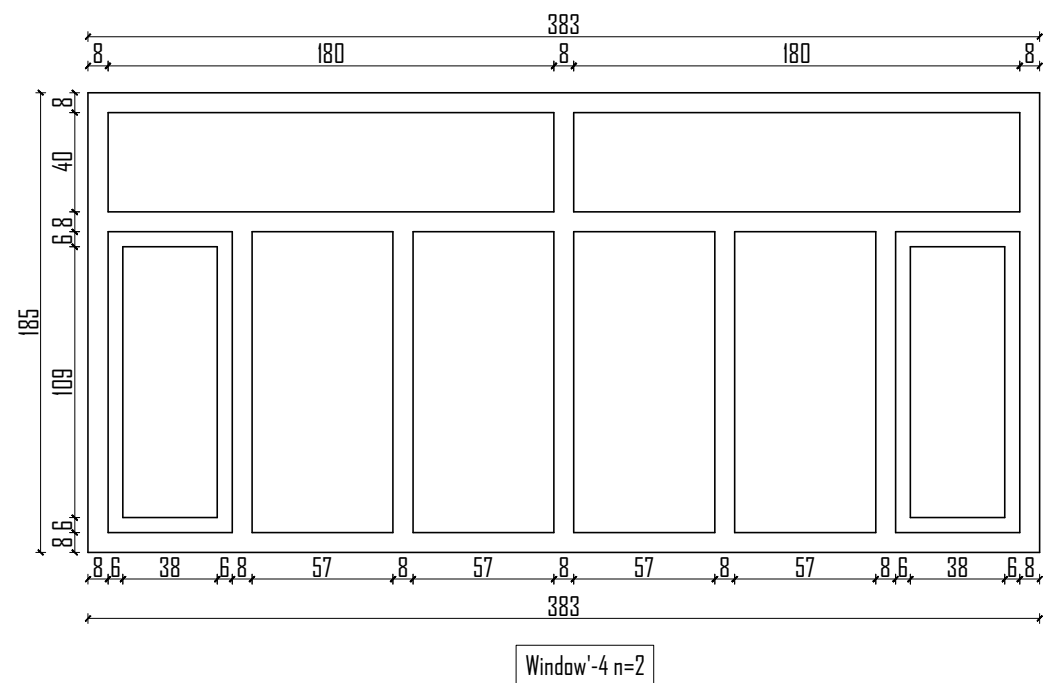
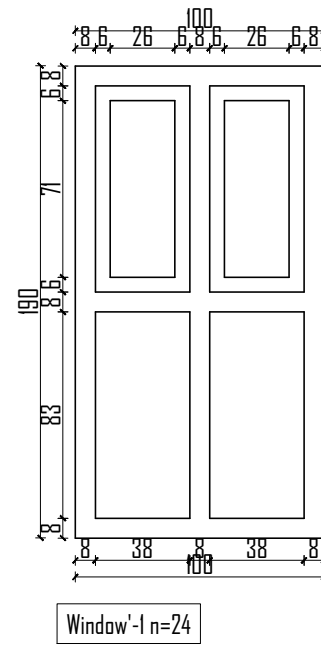
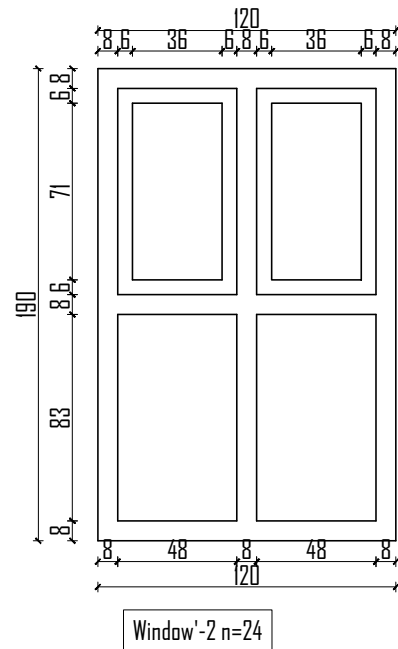
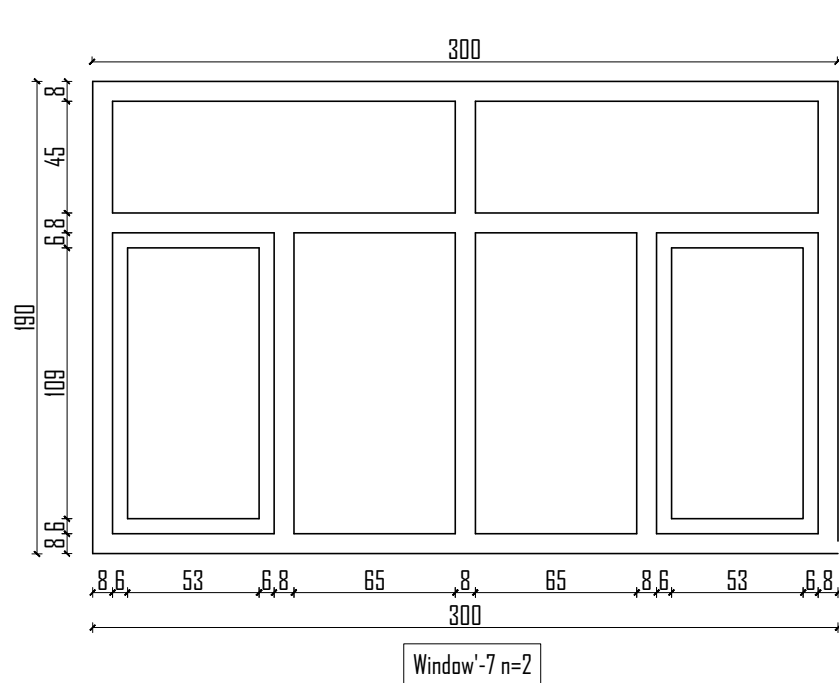


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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	14 23	DRAWING TITLE	FURNATURE PLAN FIRST FLOOR
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				



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ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED-Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No	
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012		

15
23

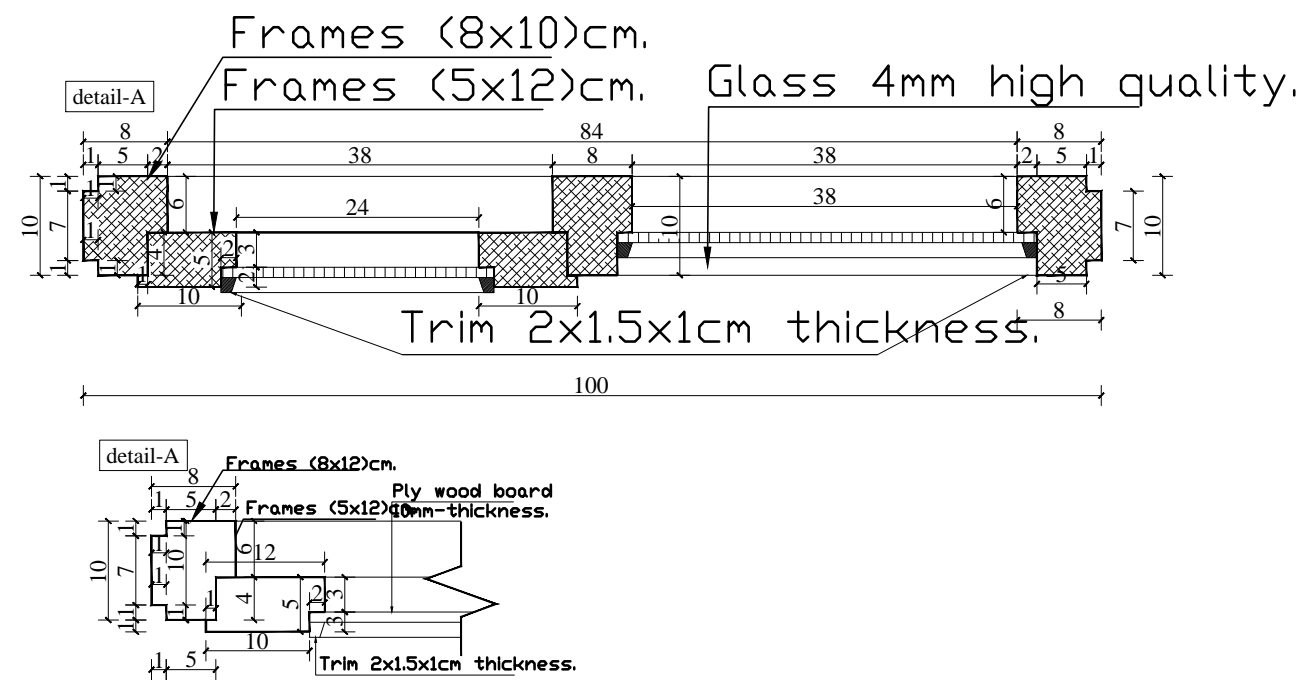
PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

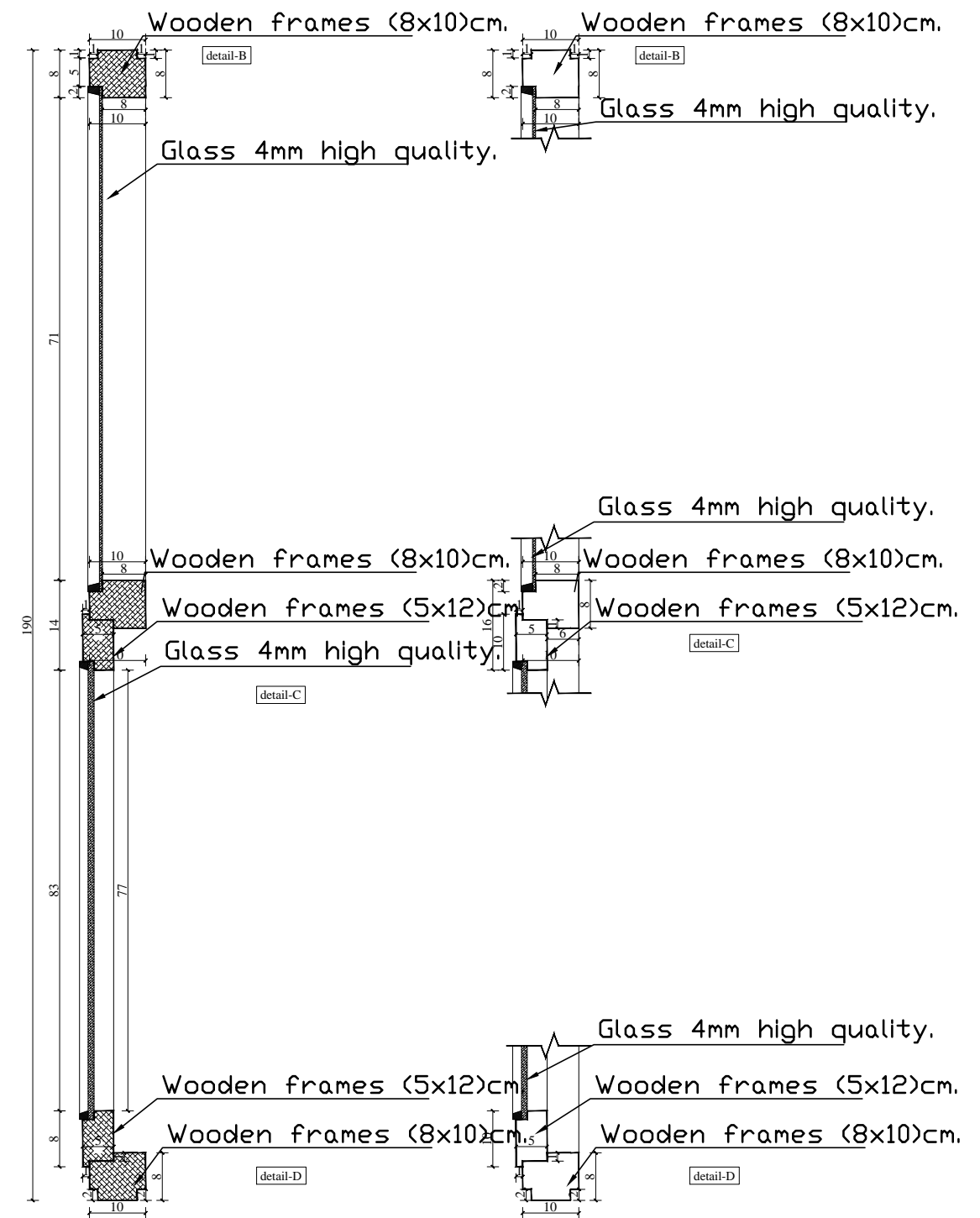
DRAWING TITLE

WINDOWS DETAIL

(Window horizontal section)



(Window Vertical section)

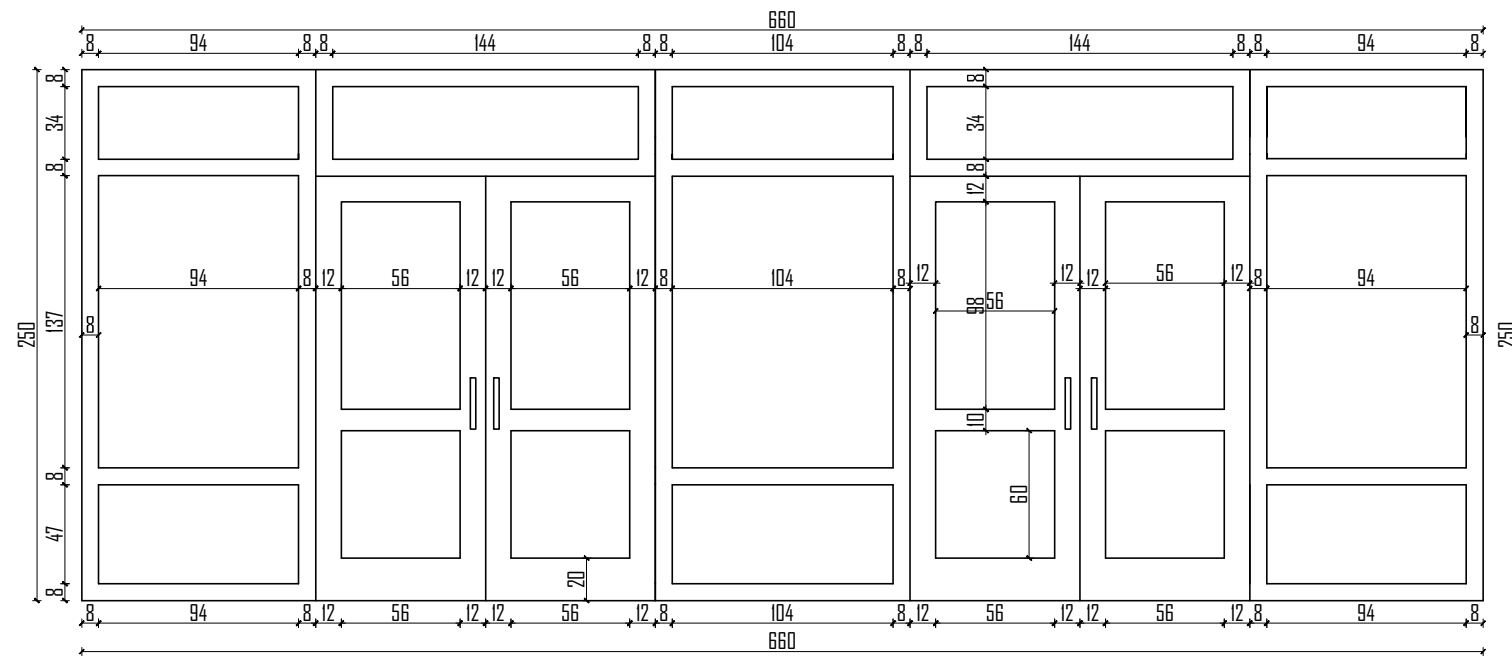


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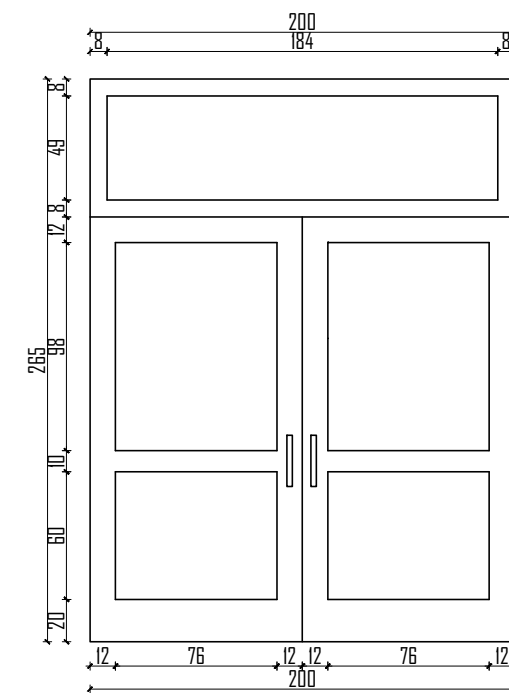


STANDARD SCHOOL DESIGN
IN AFGHANISTAN

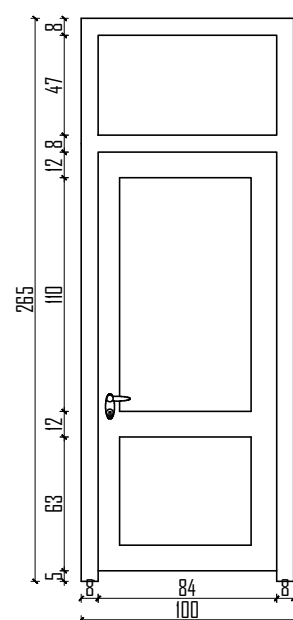
ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	16 23	DRAWING TITLE	WINDOWS DETAIL
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				



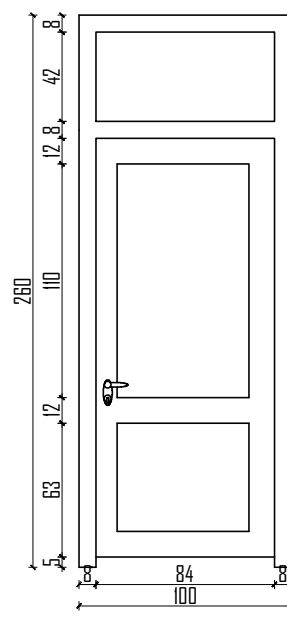
Door, Window'-1 n=1



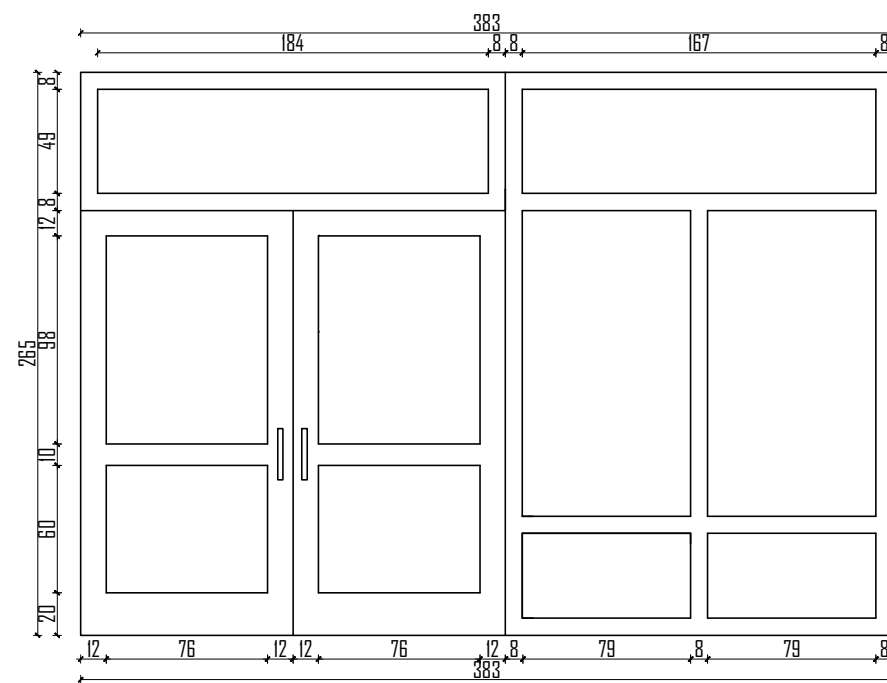
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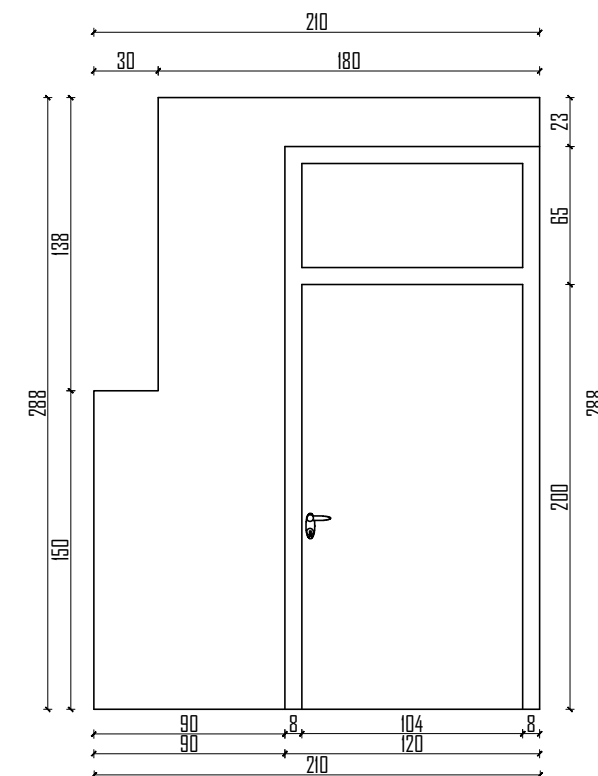
Door-1 n=16



Door-2 n=4



Door, Window'-2 n=4



partation door n=2



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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012	

17
23

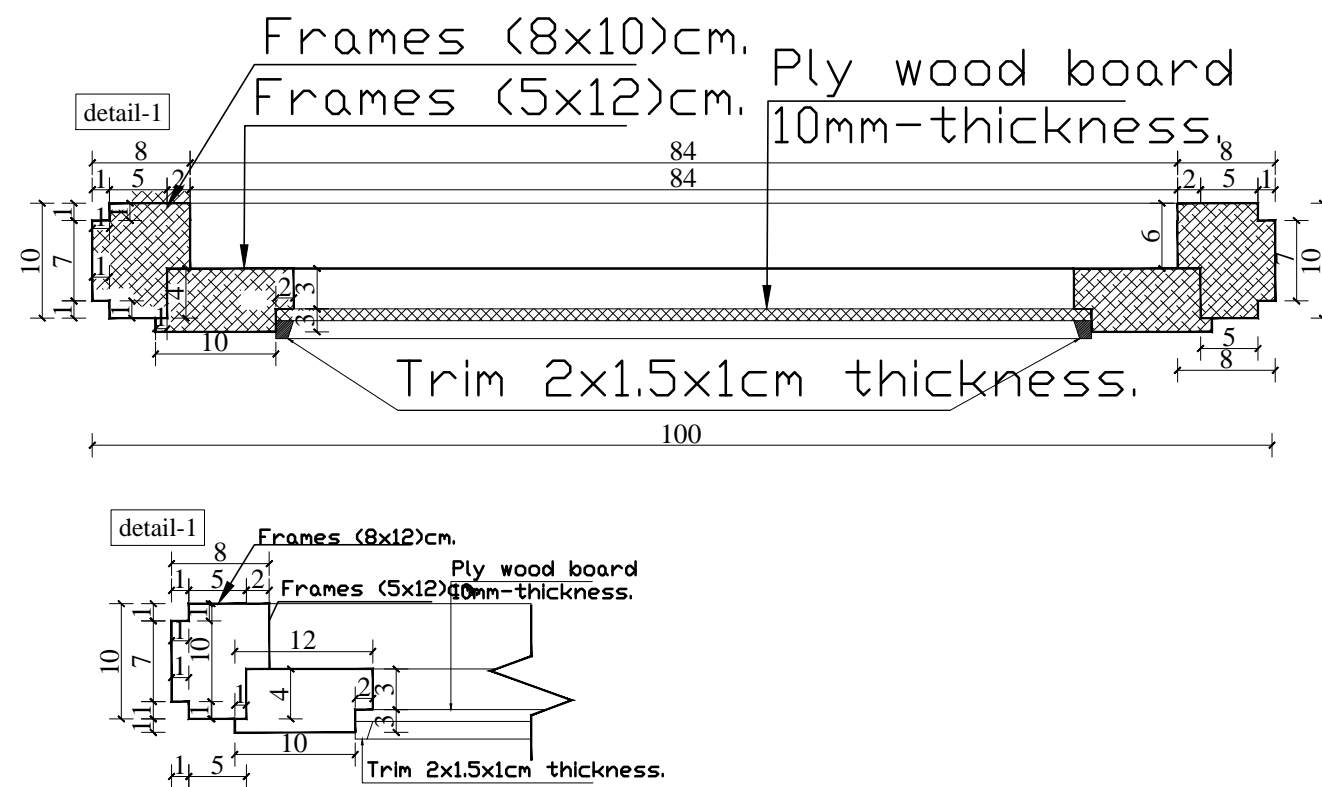
PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

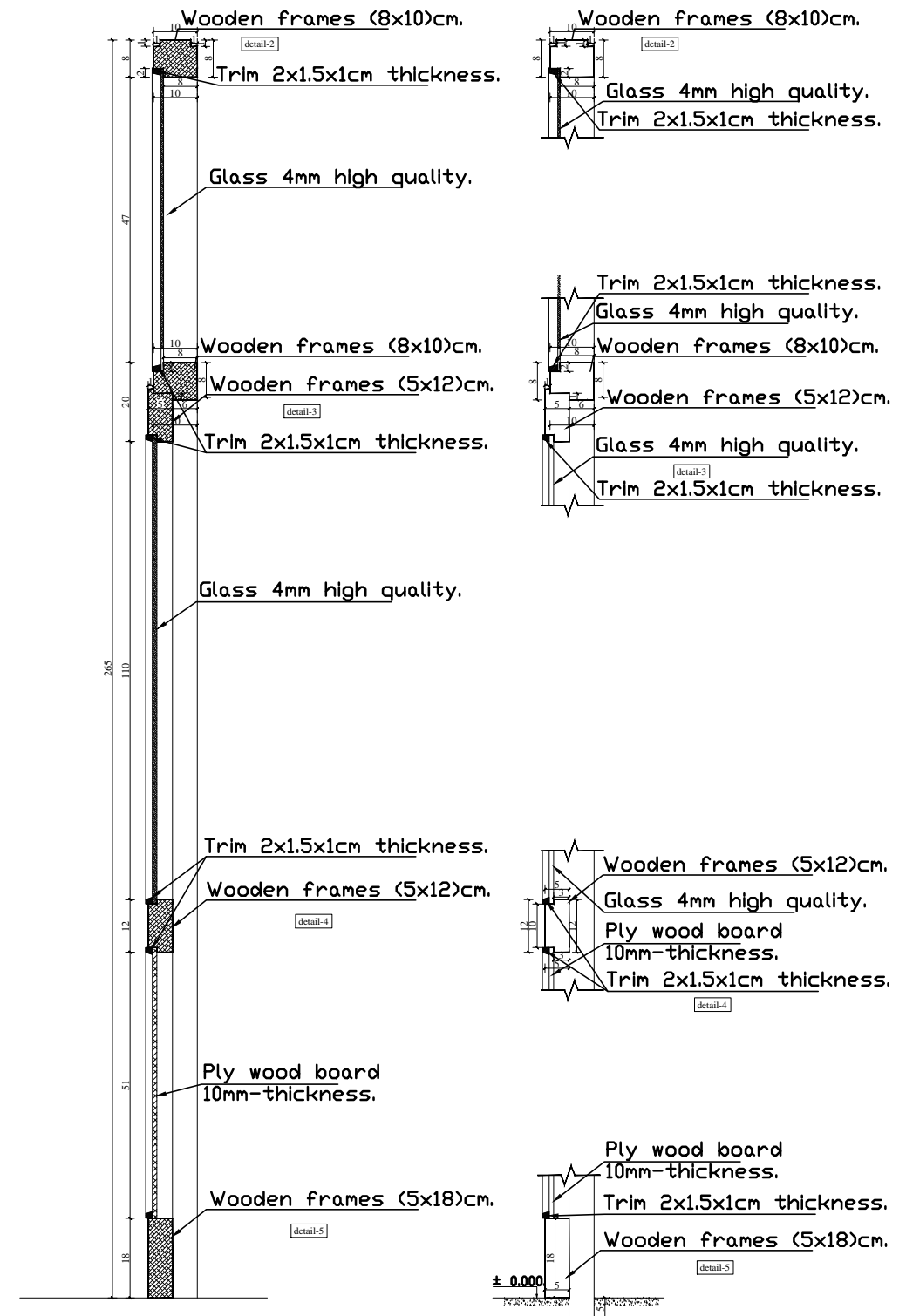
DRAWING TITLE

DOOR'S DETAILE

(Door horizontal section)



(Door Vertical section)

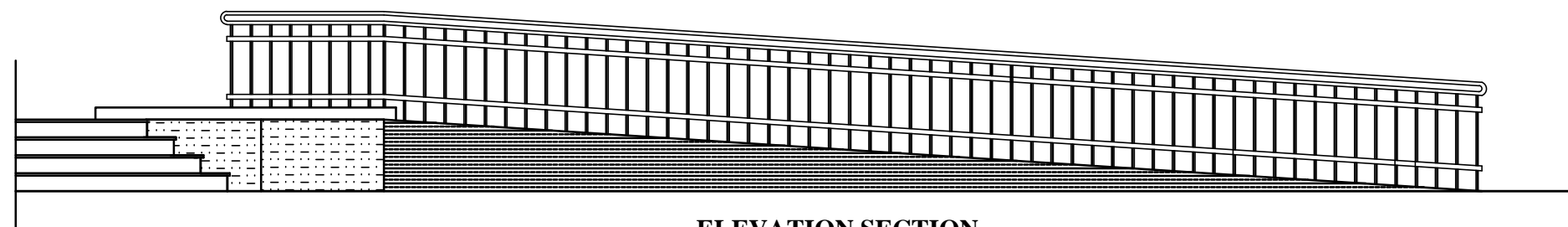


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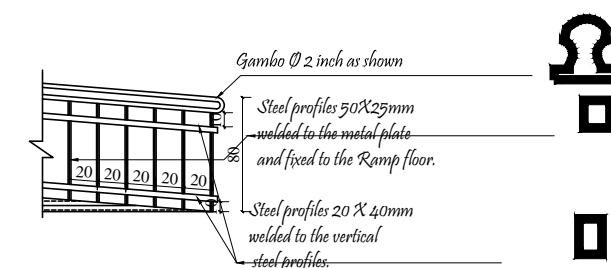
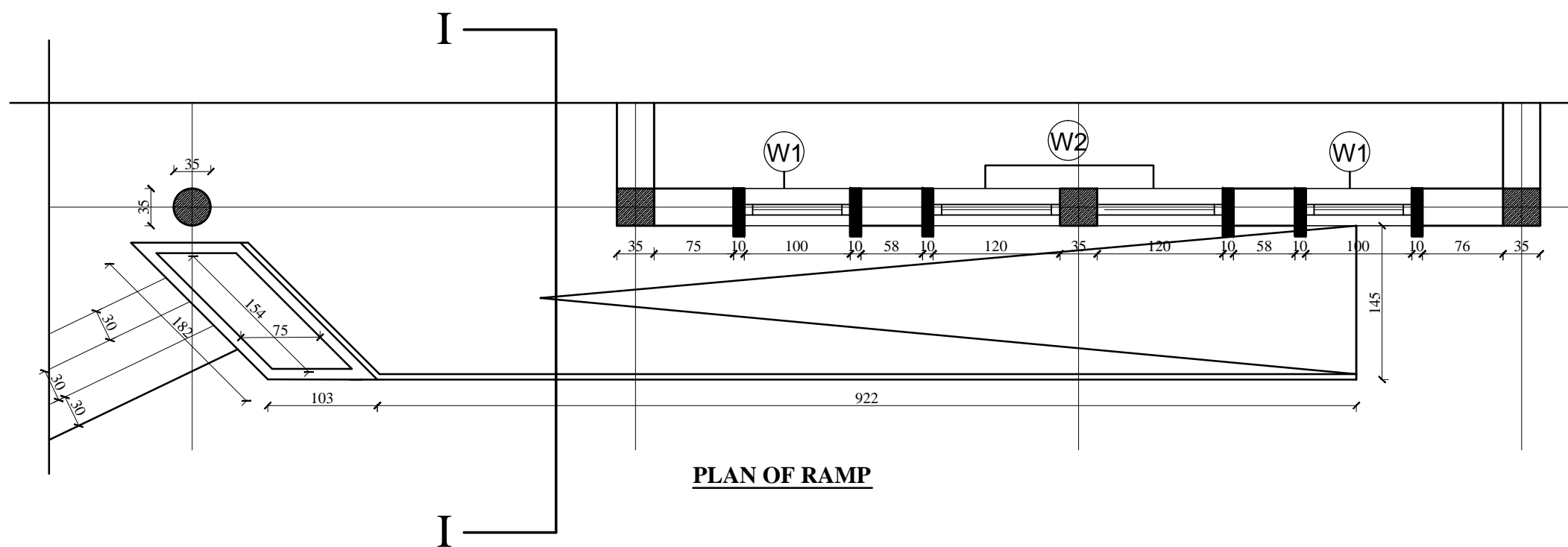
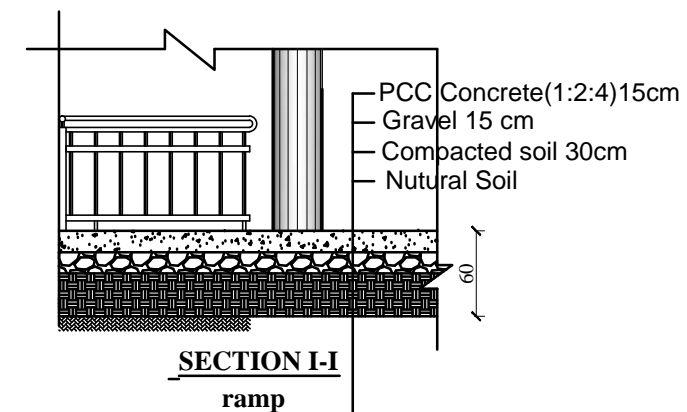


STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	18 23	DRAWING TITLE	DOOR'S DETAIL
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				



**ELEVATION SECTION
RAMP**



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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING No
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012	

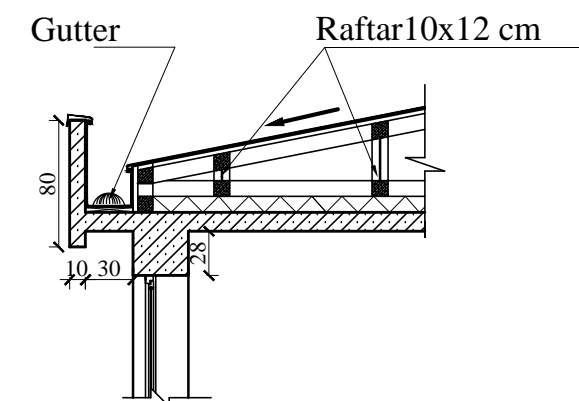
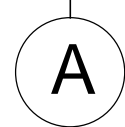
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23

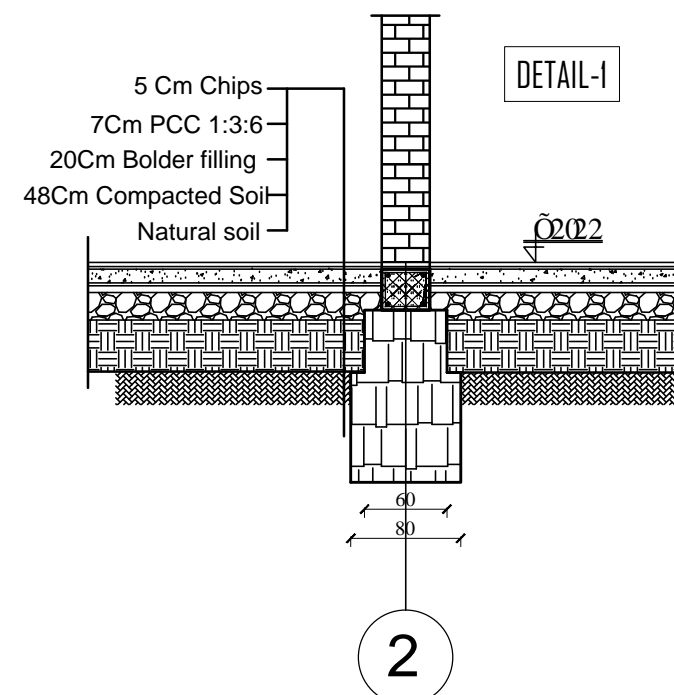
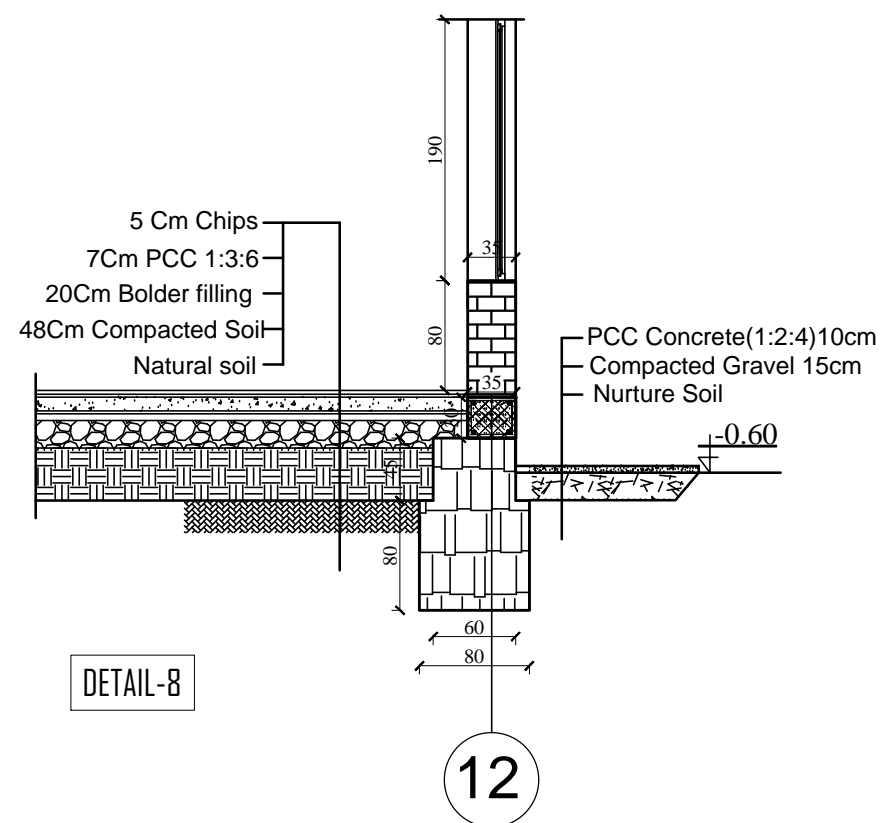
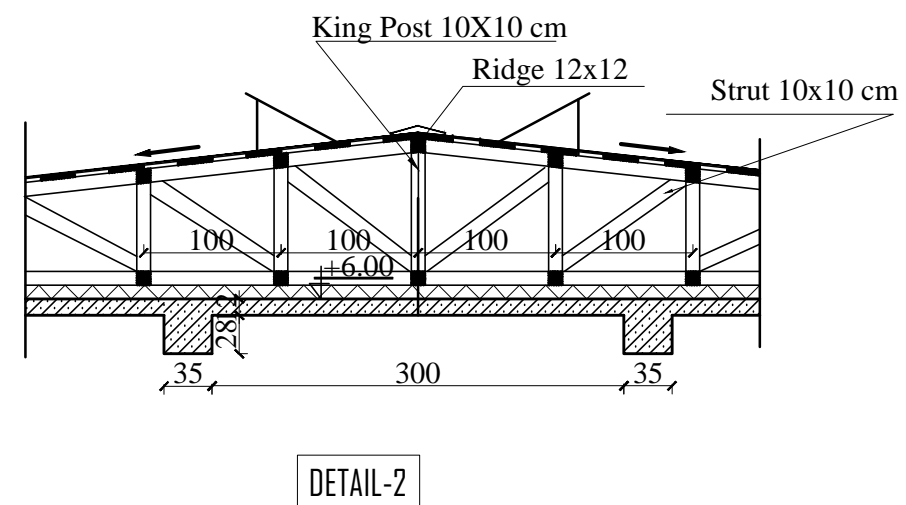
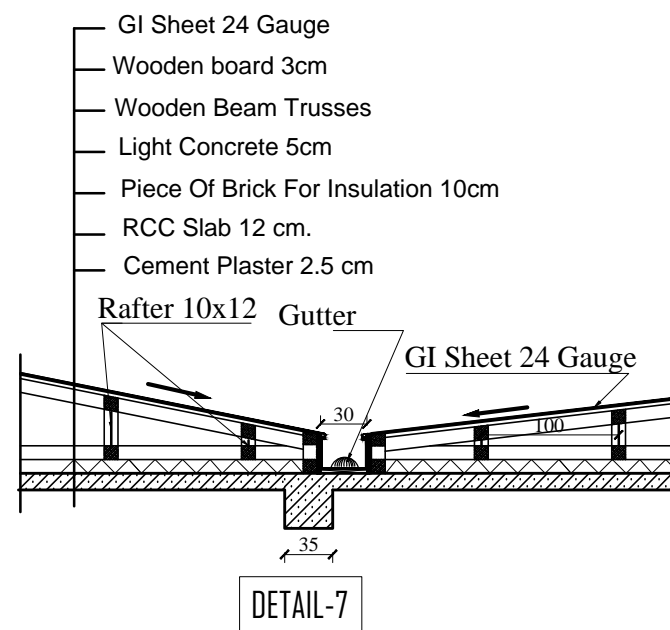
PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

RAMP DETAILS



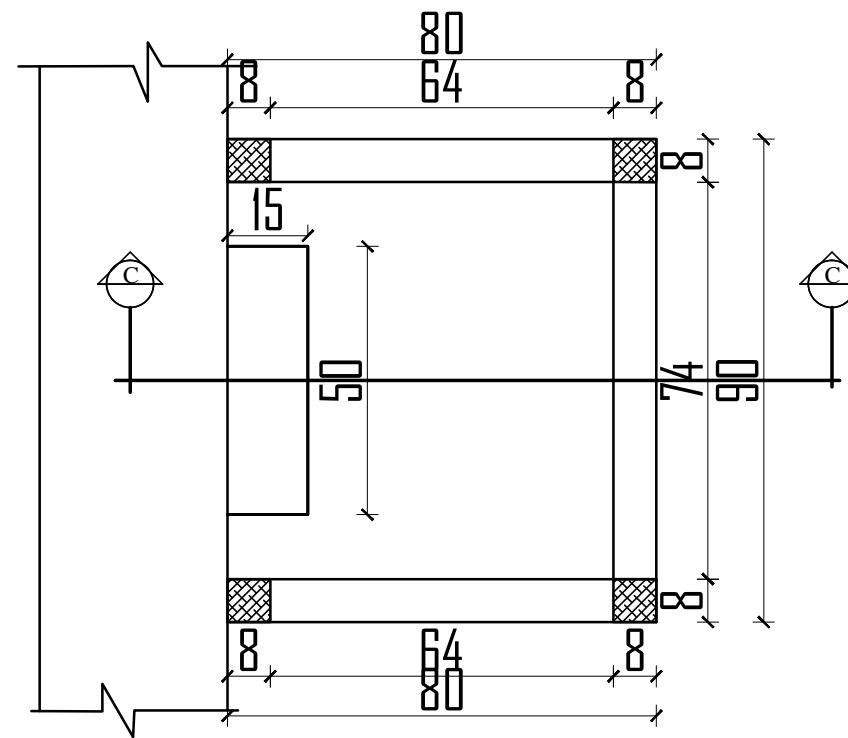
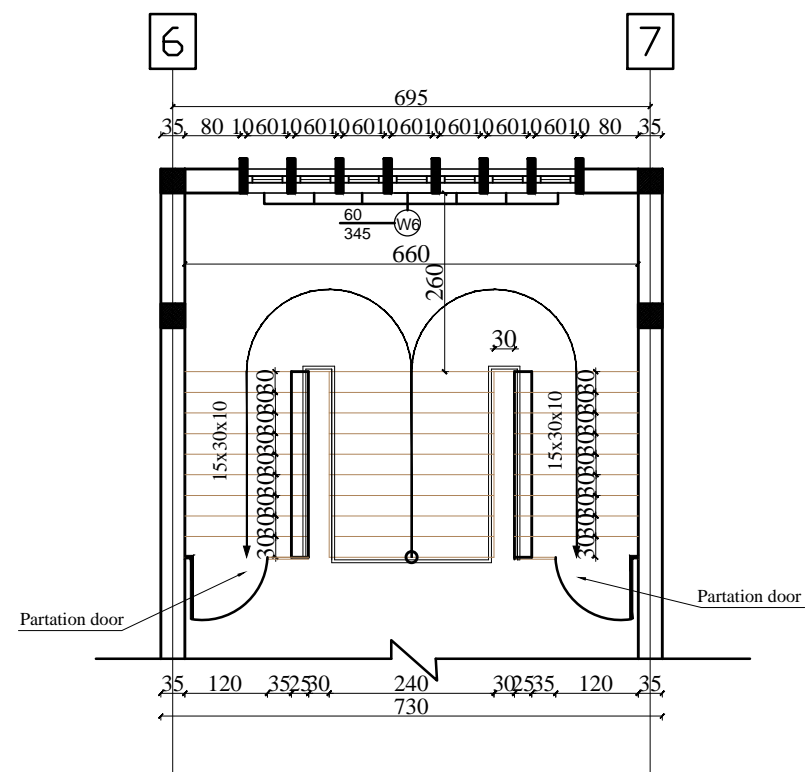
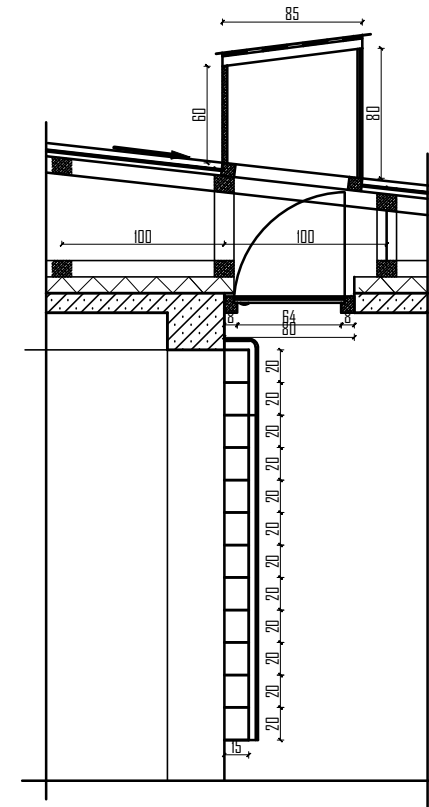
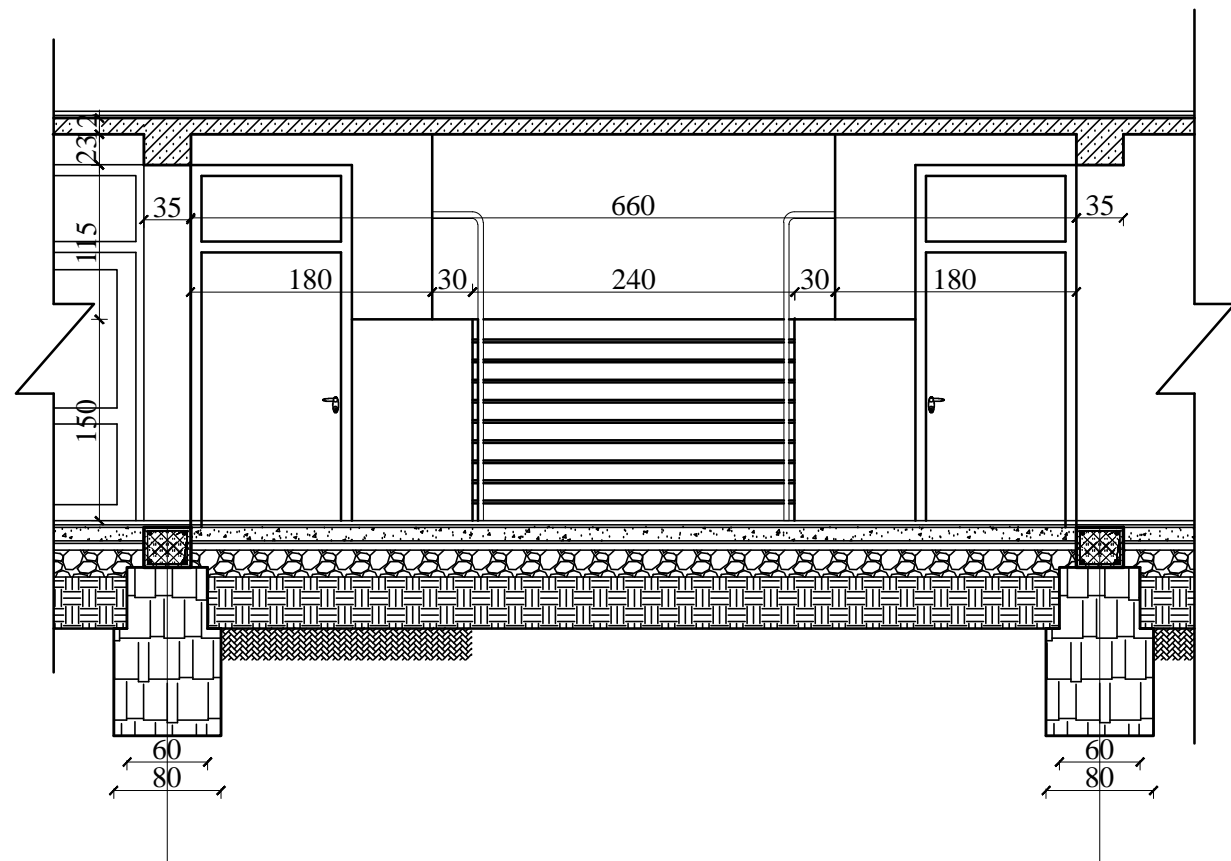


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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	21 23	DRAWING TITLE	DETAILS
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				

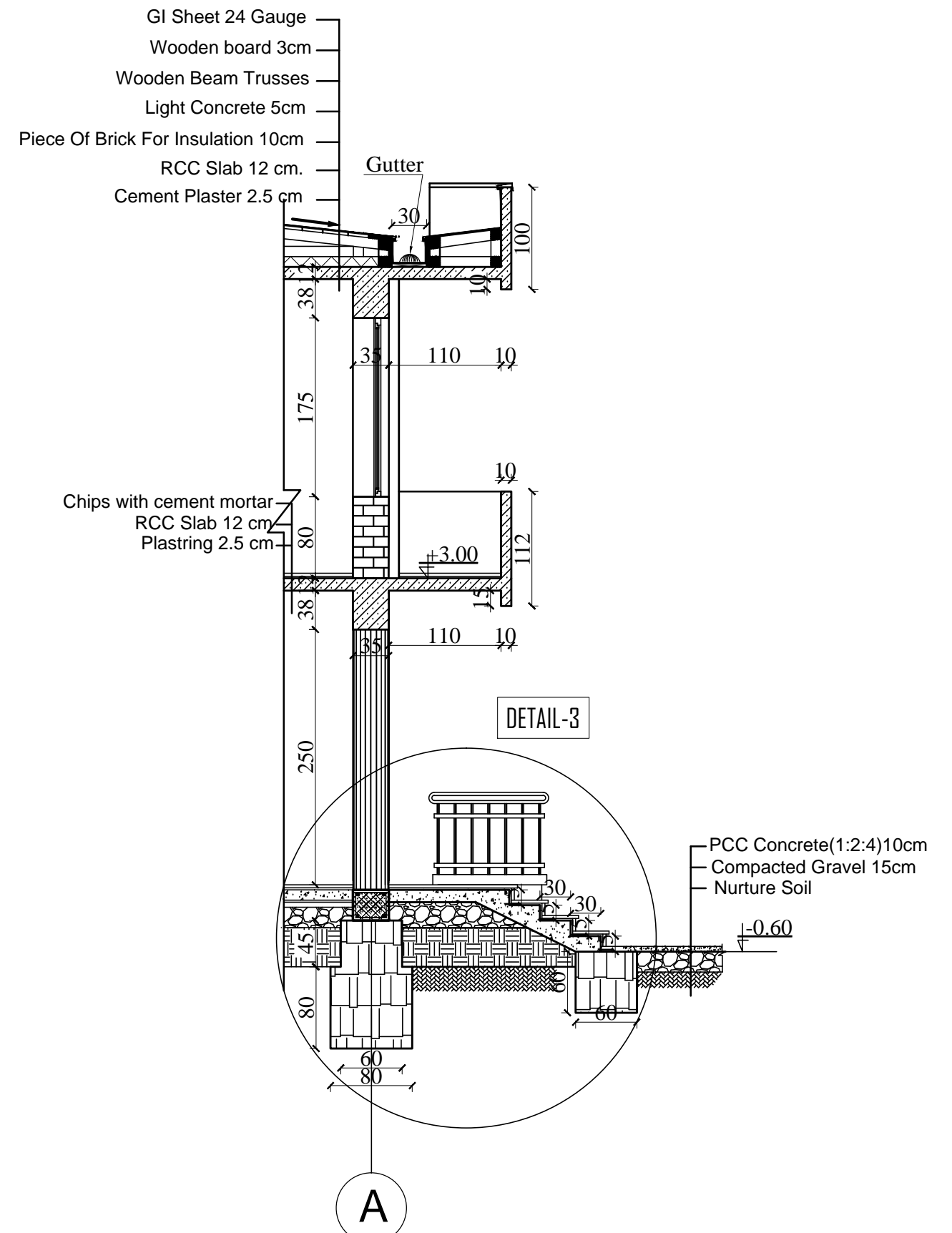
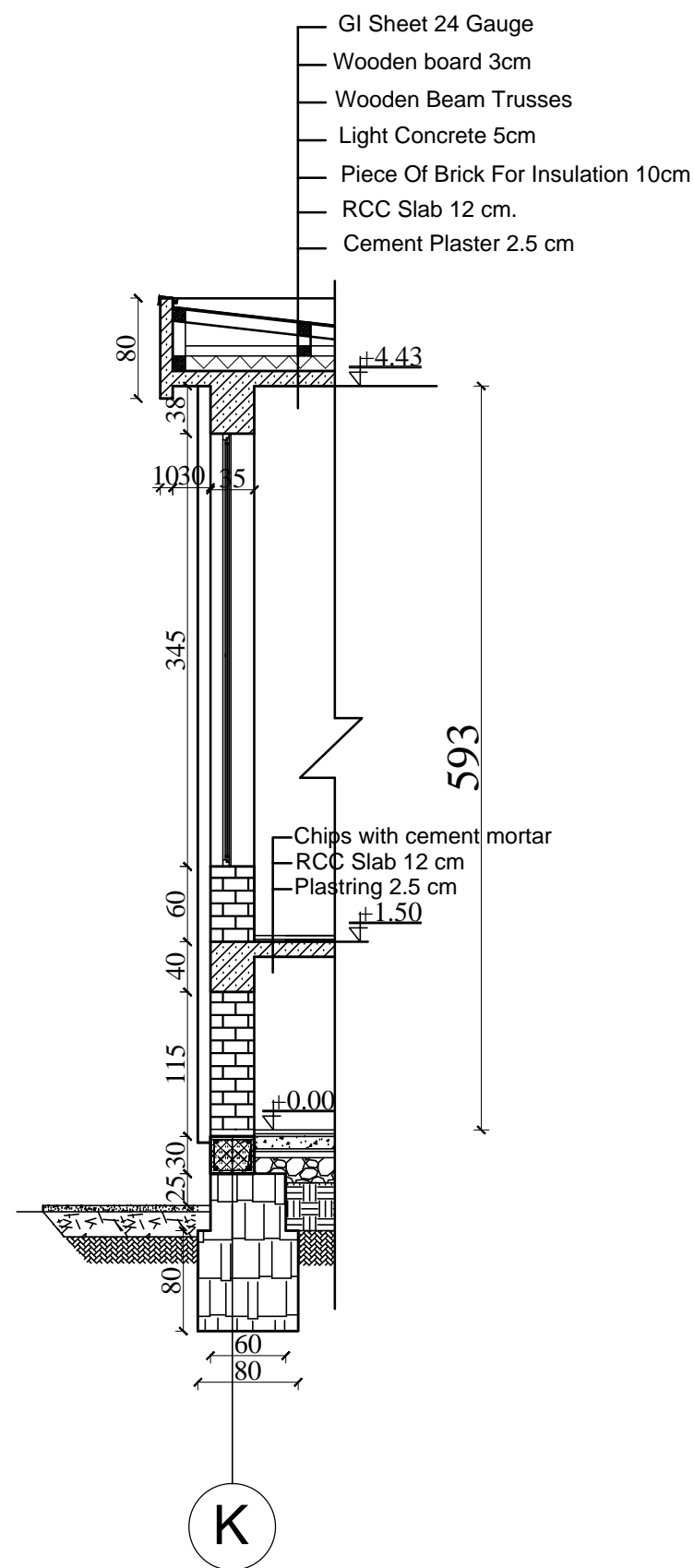


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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	22 23	DRAWING TITLE	DETAILS
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				

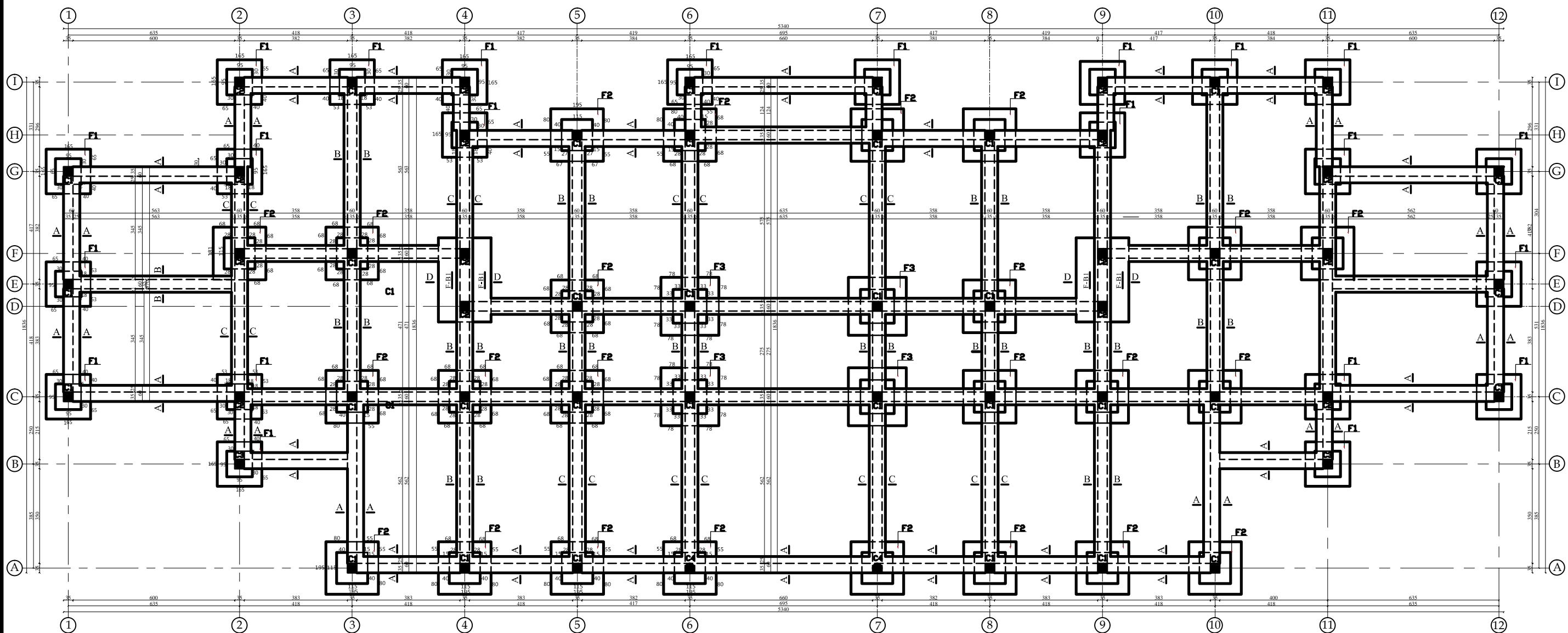


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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

ARCHITECT/DESIGN	ARCH.NAKILA AFZALI	APPROVED:Doc/Moe	ENG.AB.MOMEN RAD	DRAWING TYPE	ARCHITECTURE	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ARCH.SAYEED RASUL	SCALE	AS SHOWN	SHEET No	23 23	DRAWING TITLE	DETAILS
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	DECEMBER 2012				



FOUNDATION PLAN

- 1-Base on soil that result the safe bearing capacity of soil has been assumed as (1.5 Kg/cm²) 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/cm²) after 28 days.
- 4-Reinforcement grade 1 mild steel having minimum yield stress of (2400Kg/cm²)
- 5-Reinforcement grade 2 deformed bars having minimum yield stress(3000Kg/cm²) that shown by (N).
- 6-P.C.C(1:2:4).

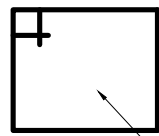


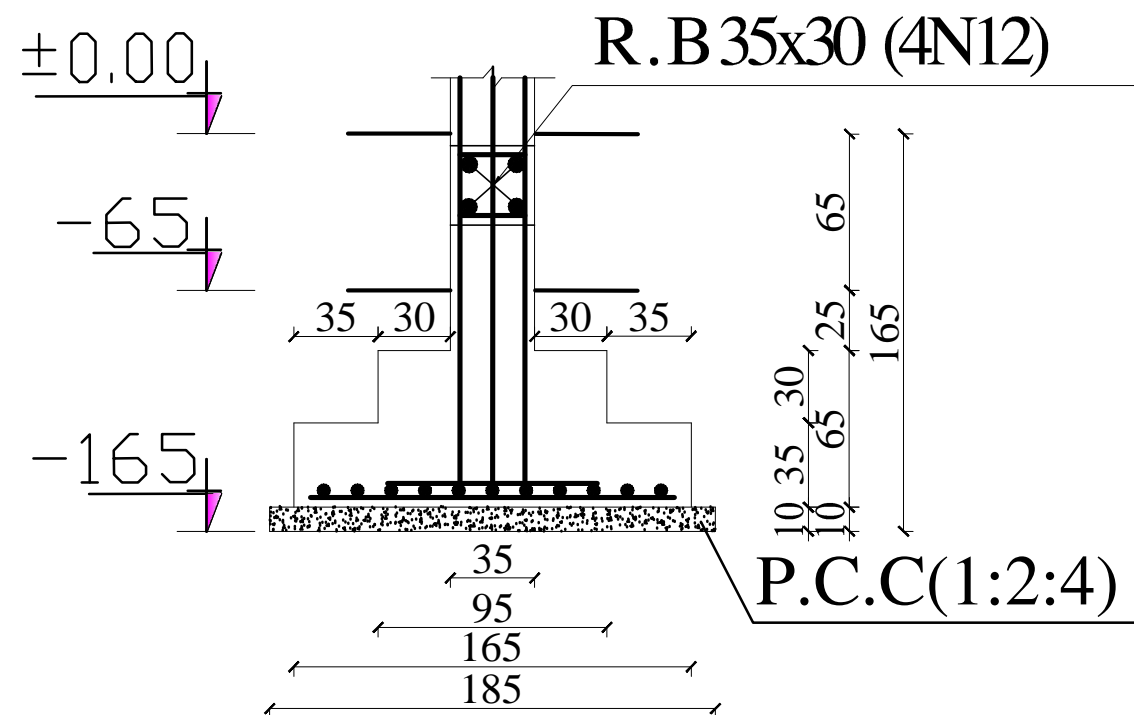
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DEPARTMENT OF CONTRACTION



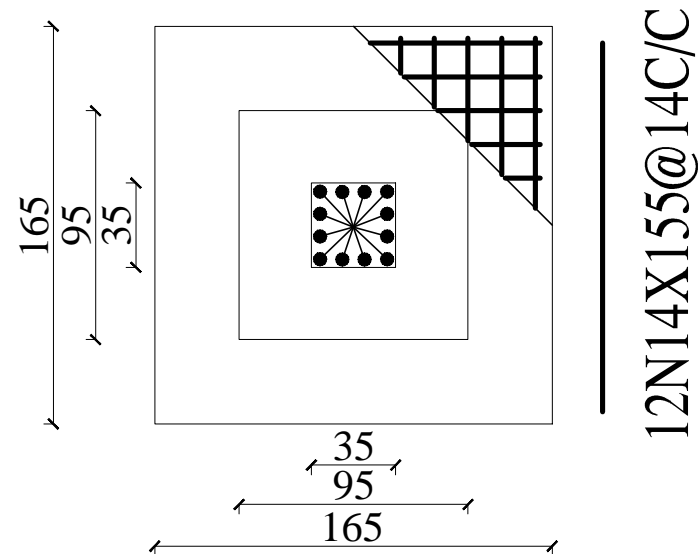
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IN AFGHANISTAN

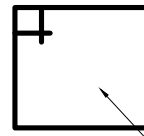
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CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	1 25	DRAWING TITLE	FOUNDATION PLAN
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				

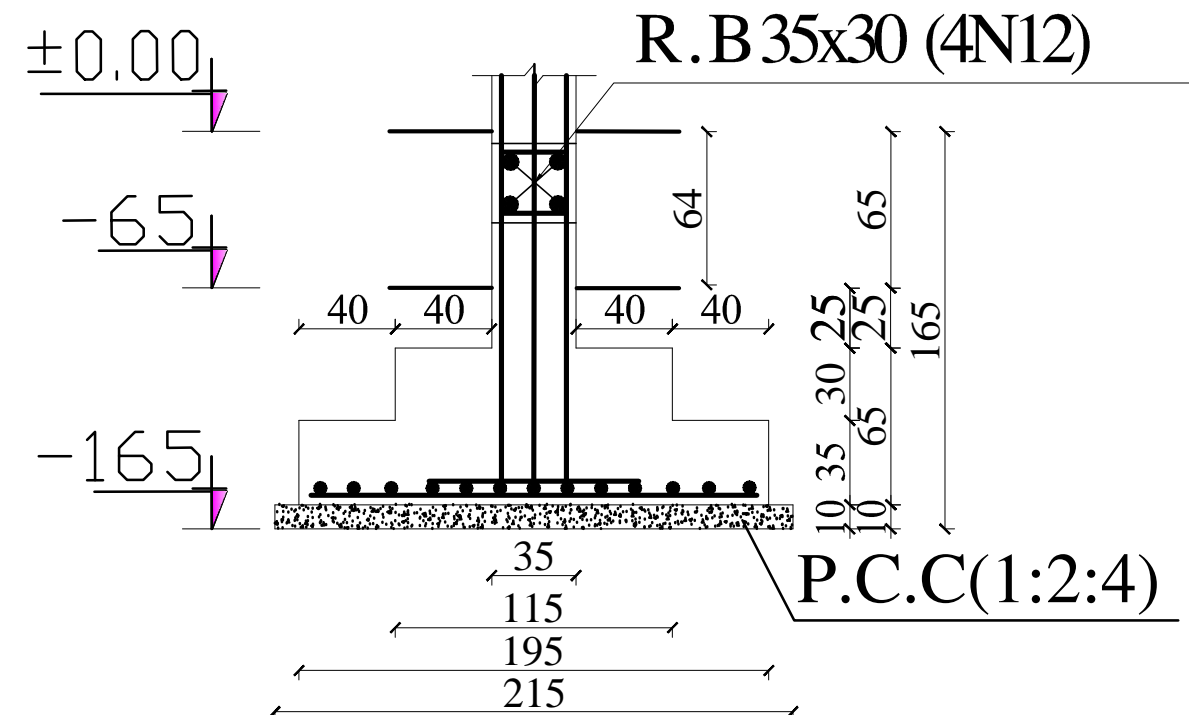
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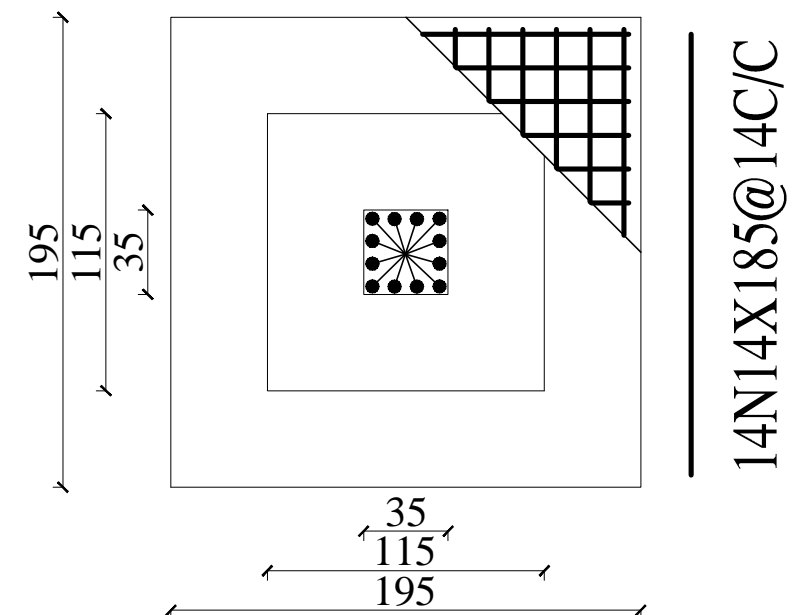
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F-2
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 30 Ø8x125



14N14X185@14C/C

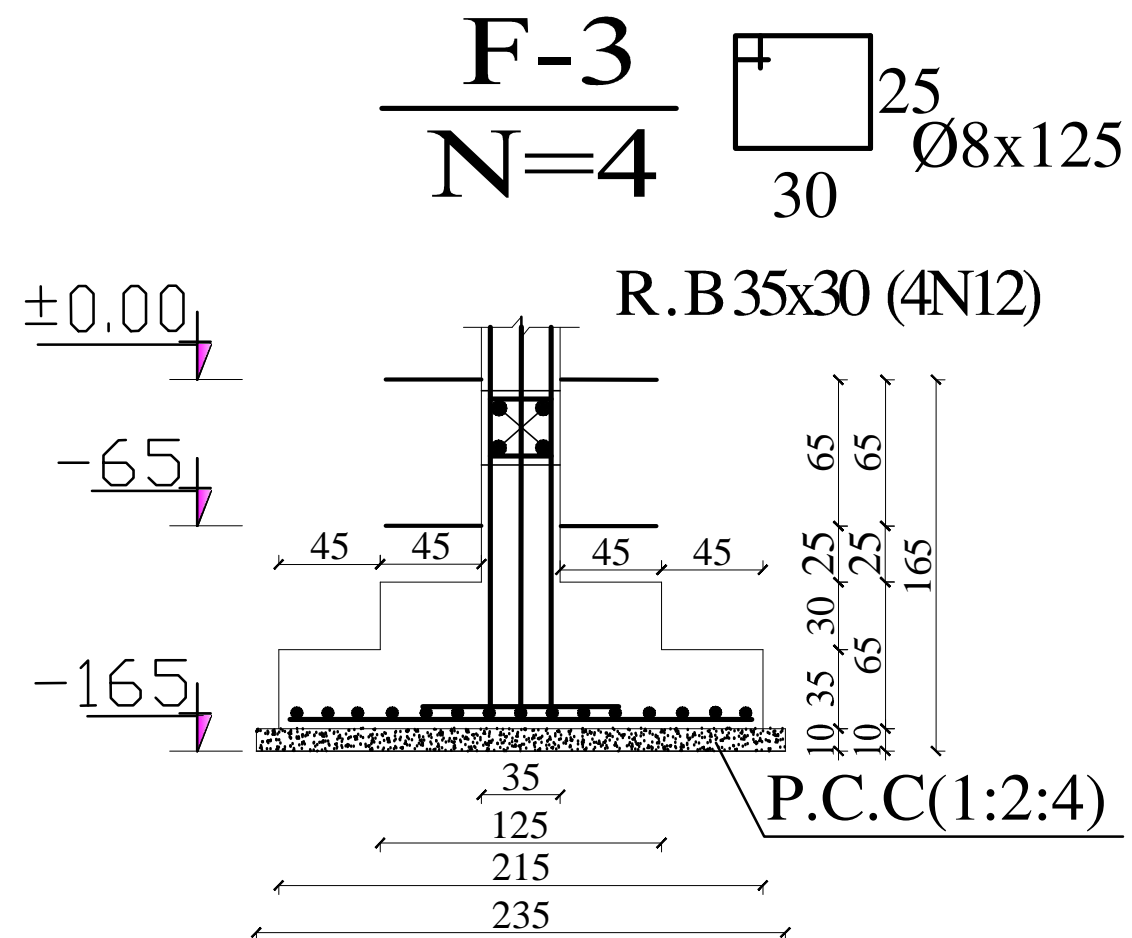


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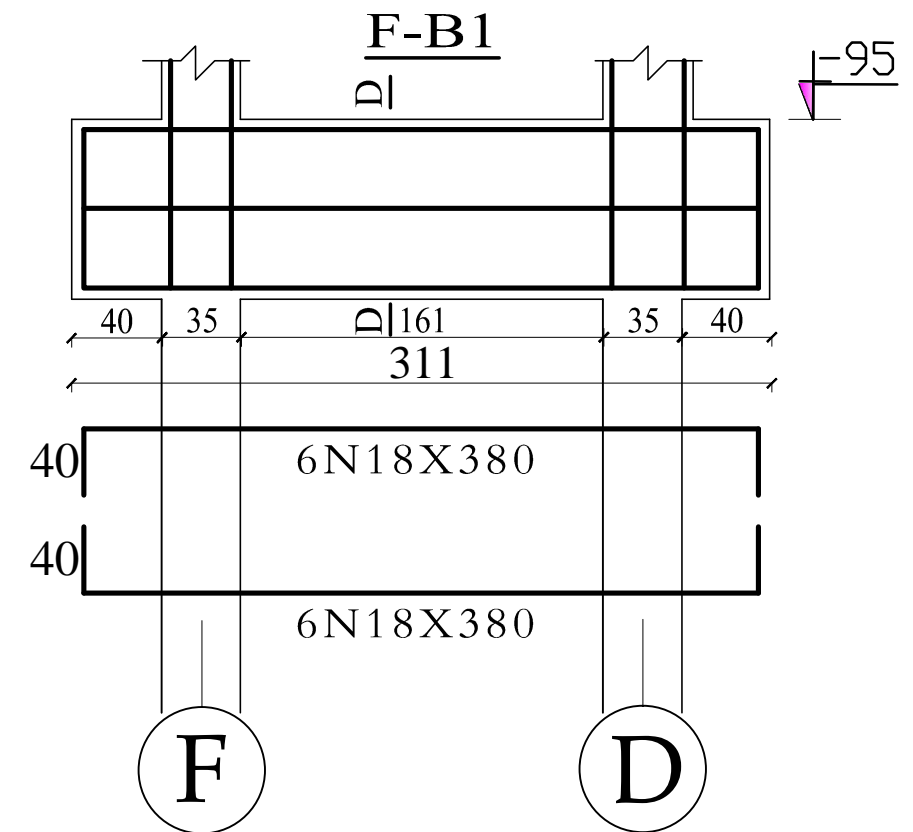
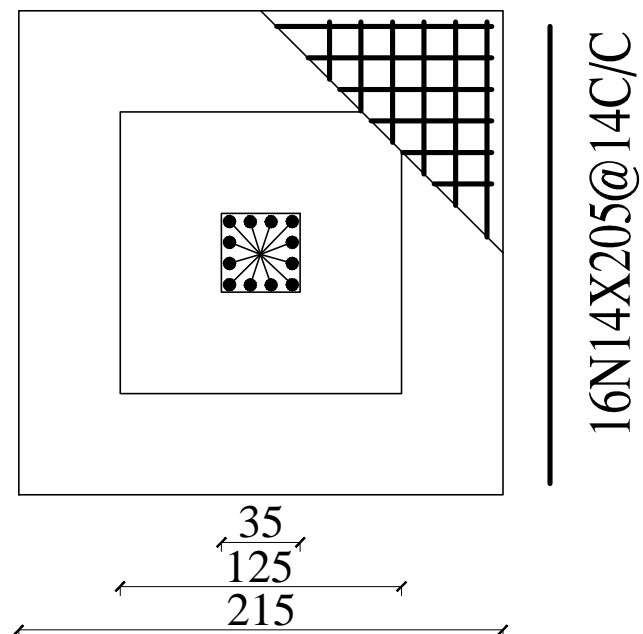


STANDARD SCHOOL DESIGN
 IN AFGHANISTAN

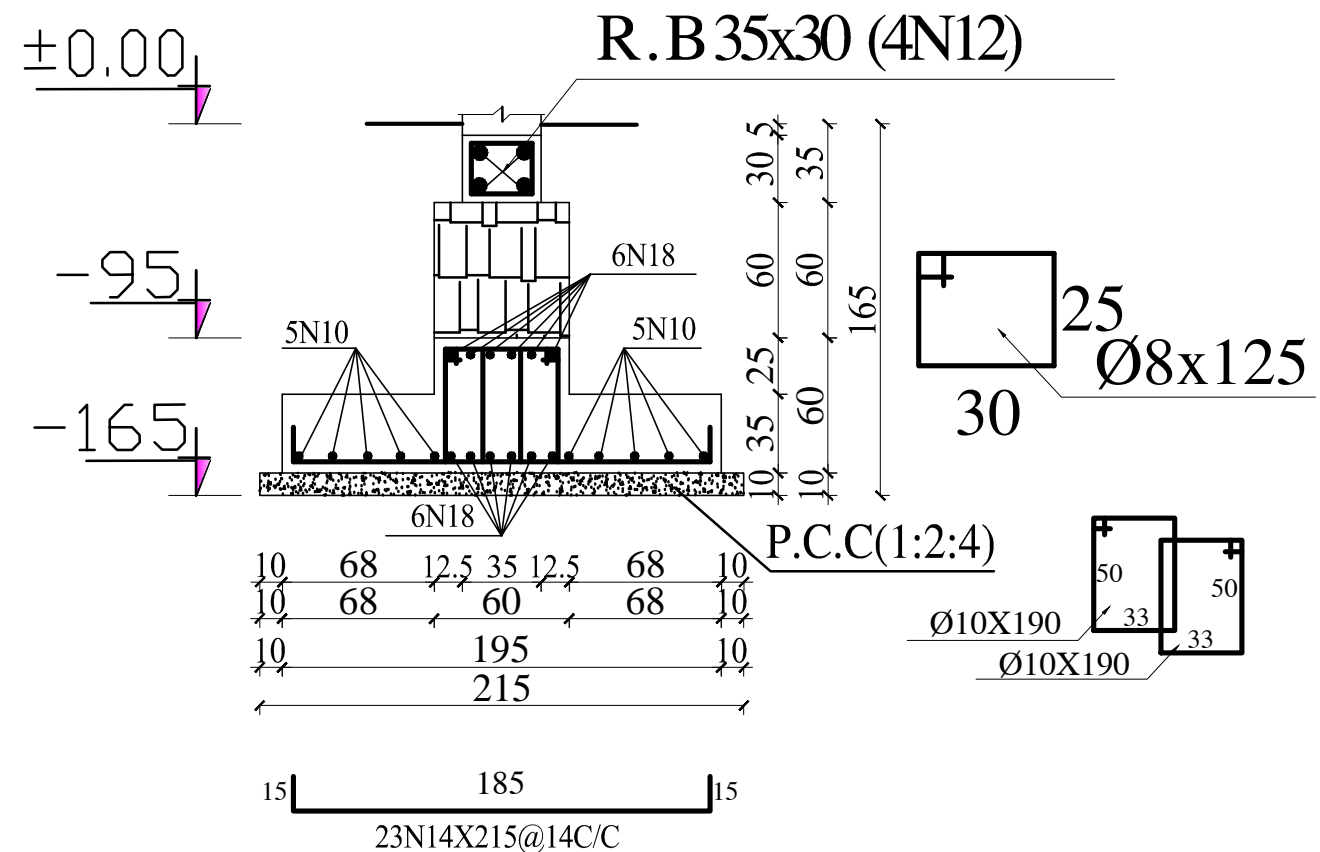
R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	2 25	DRAWING TITLE	FOUNDATION SECTION
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				



16N14X205@14C/C



SEC: D-D



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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

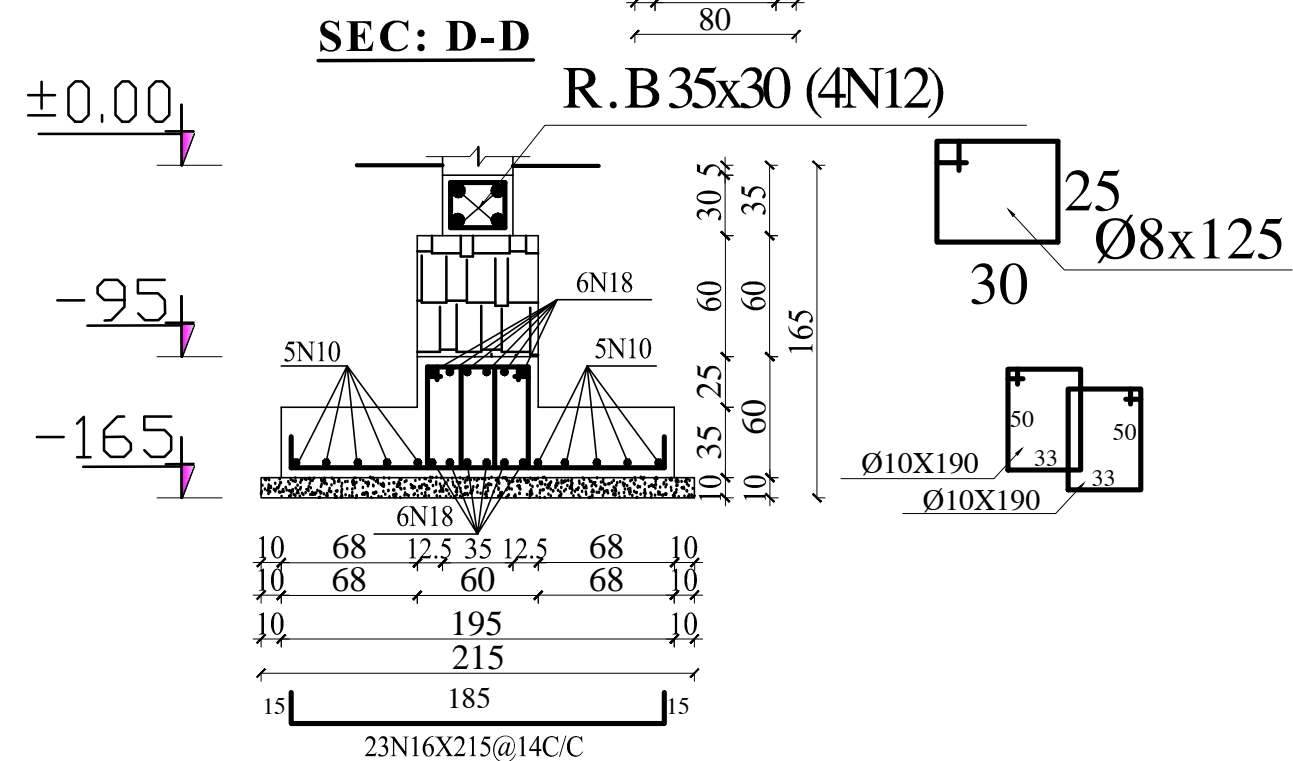
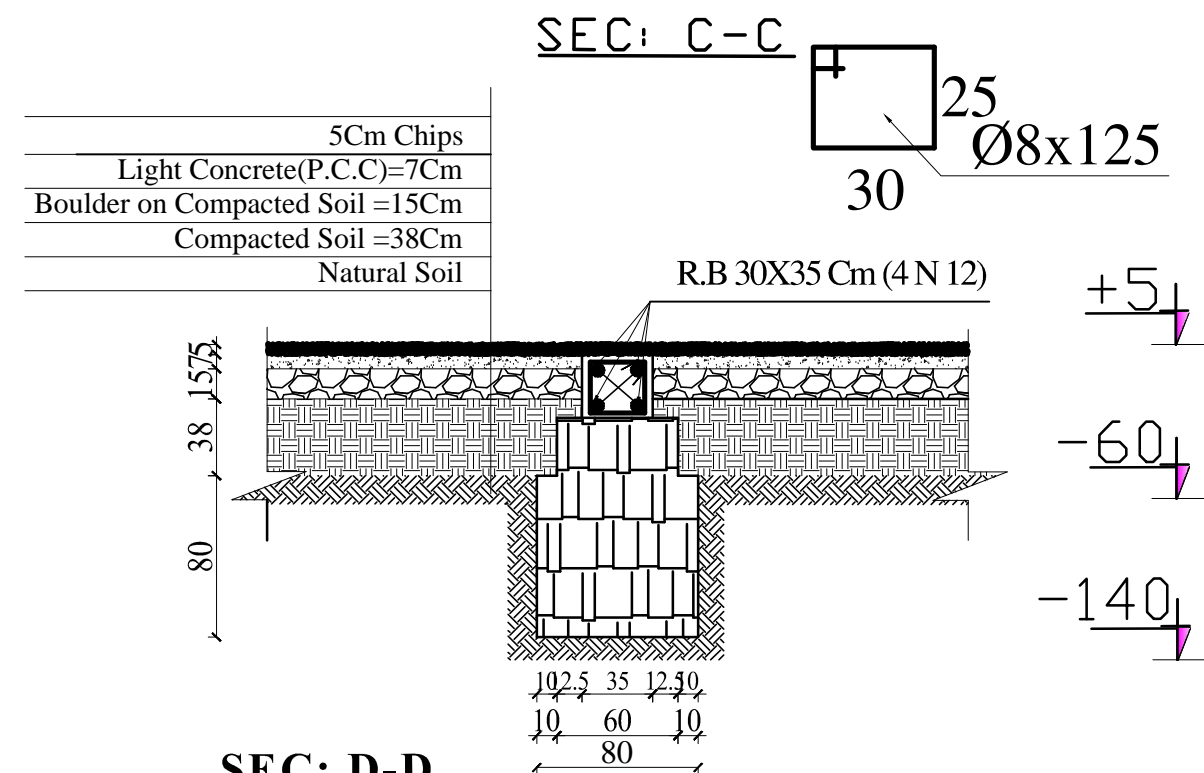
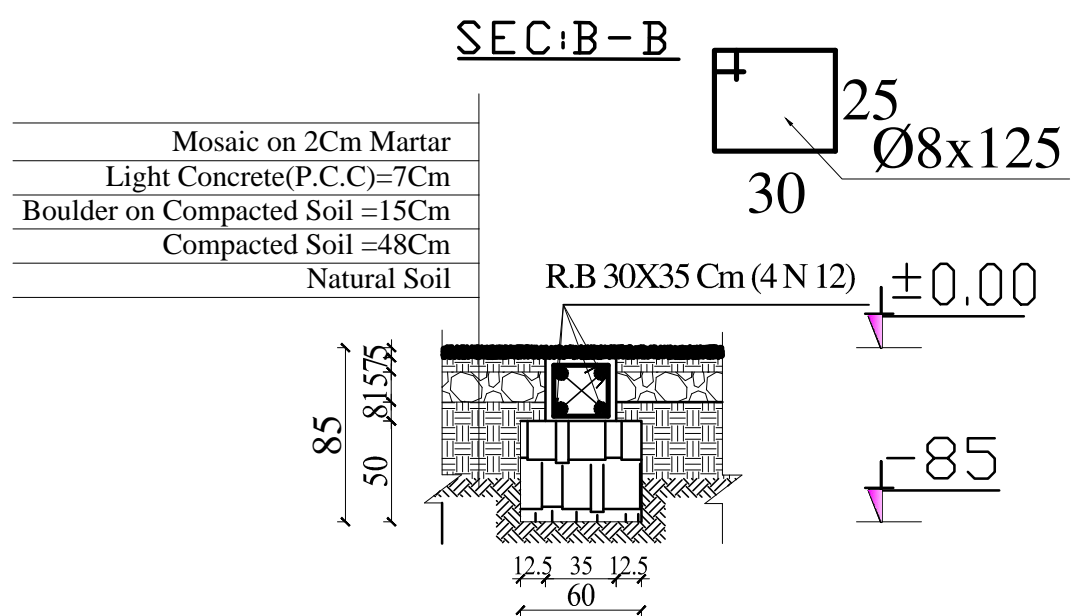
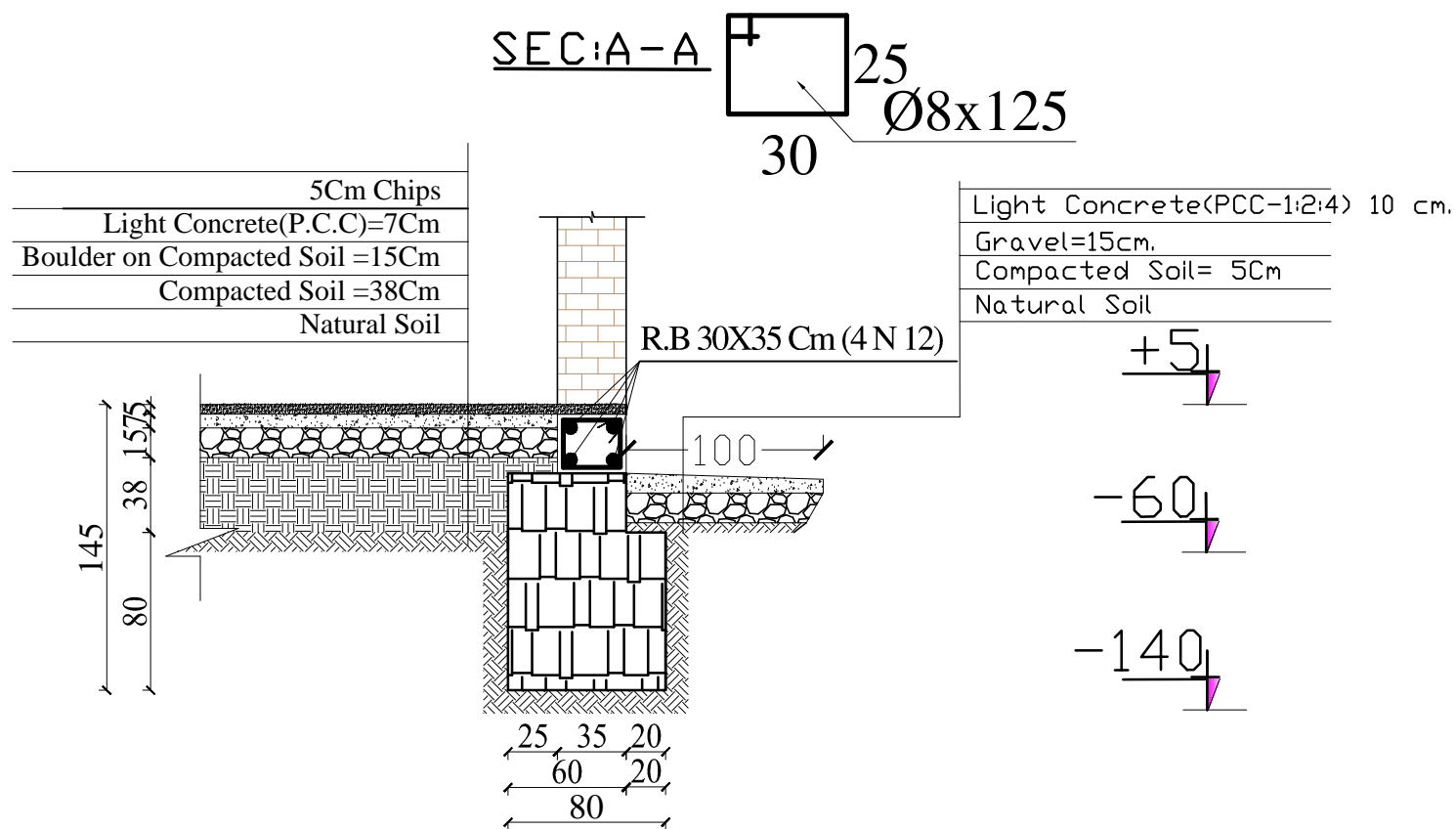
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CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	3 25
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013		

PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

FOUNDATION DETAILING

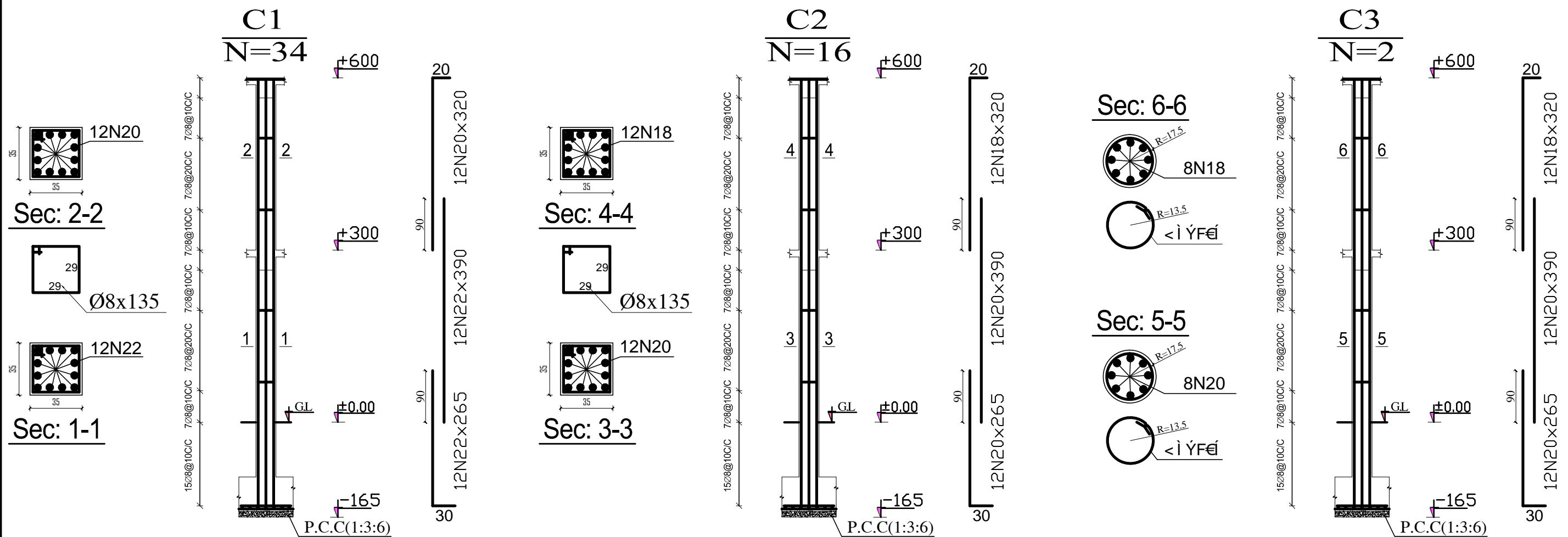


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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C./DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	4 25	DRAWING TITLE	FOUNDATION SECTIONS
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				



COLUMNS DETAILING

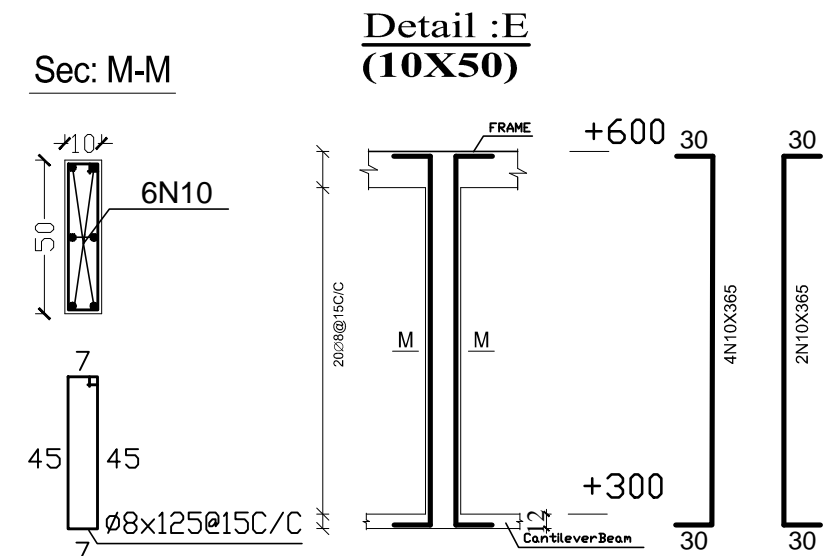
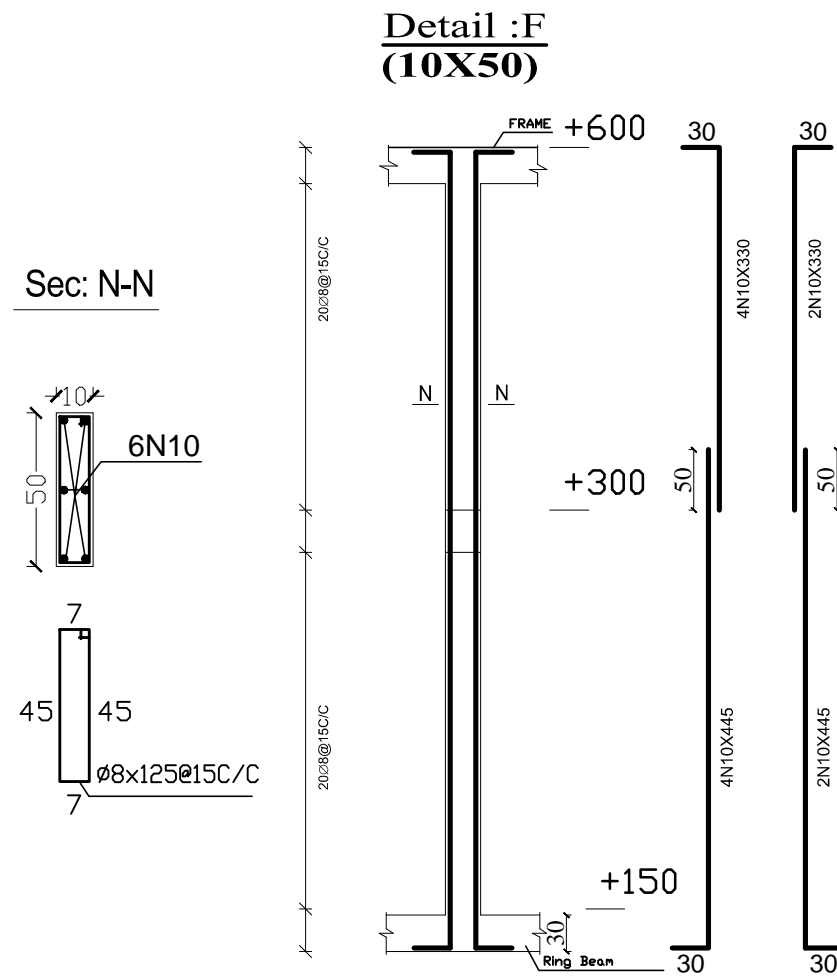
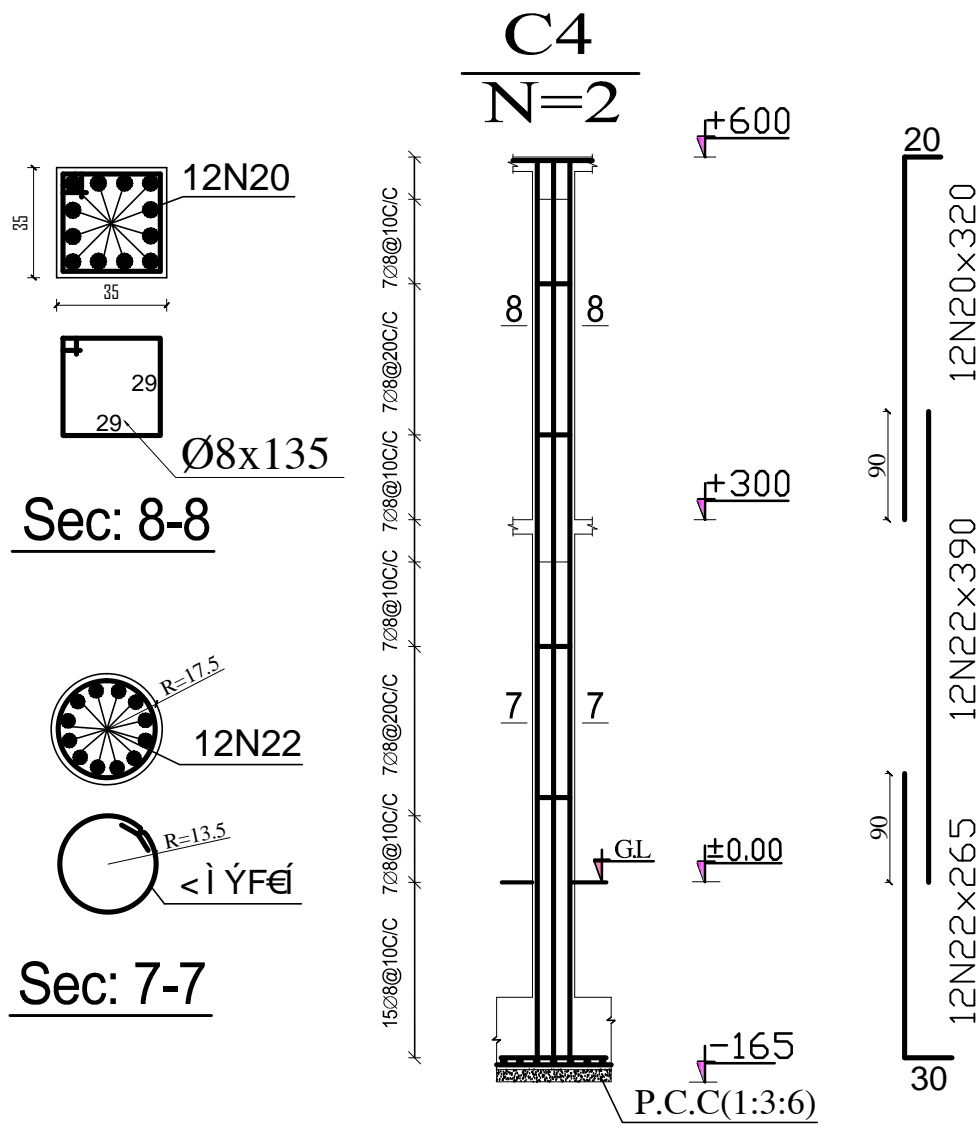


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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	5 25	DRAWING TITLE	COLUMN C1,C2 AND C3 DETAILING
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

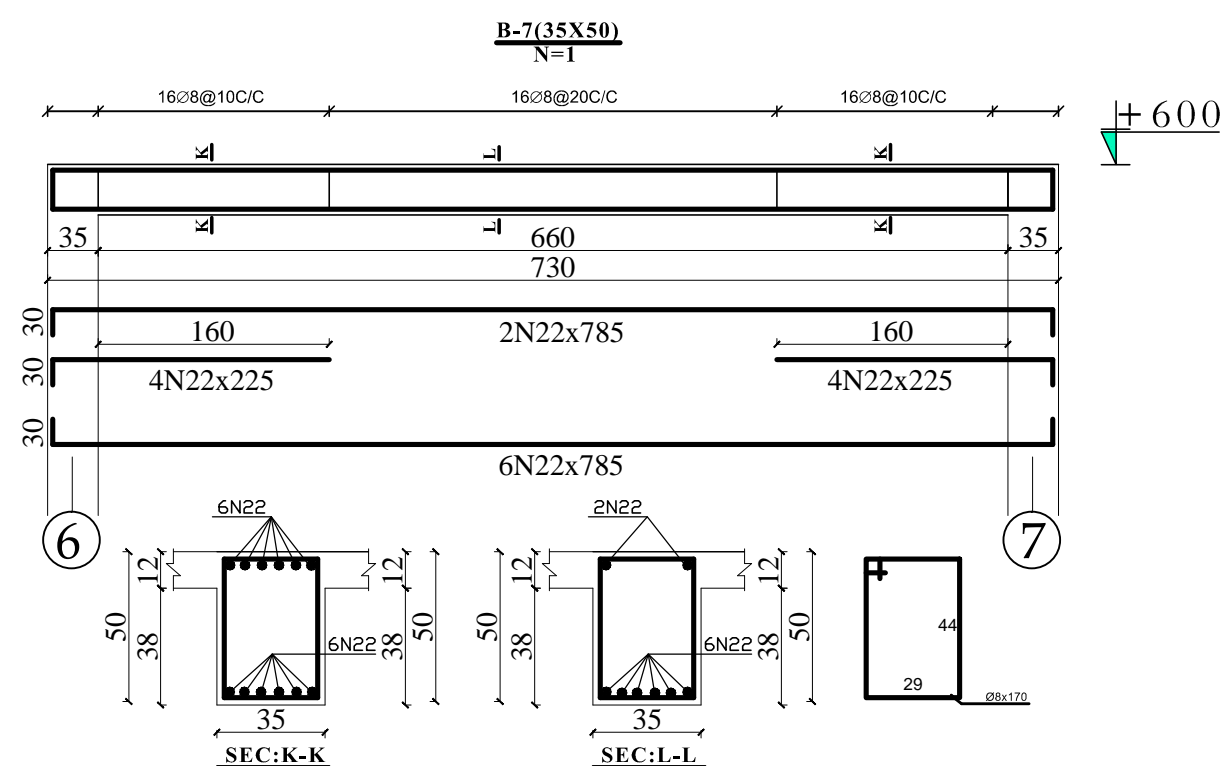
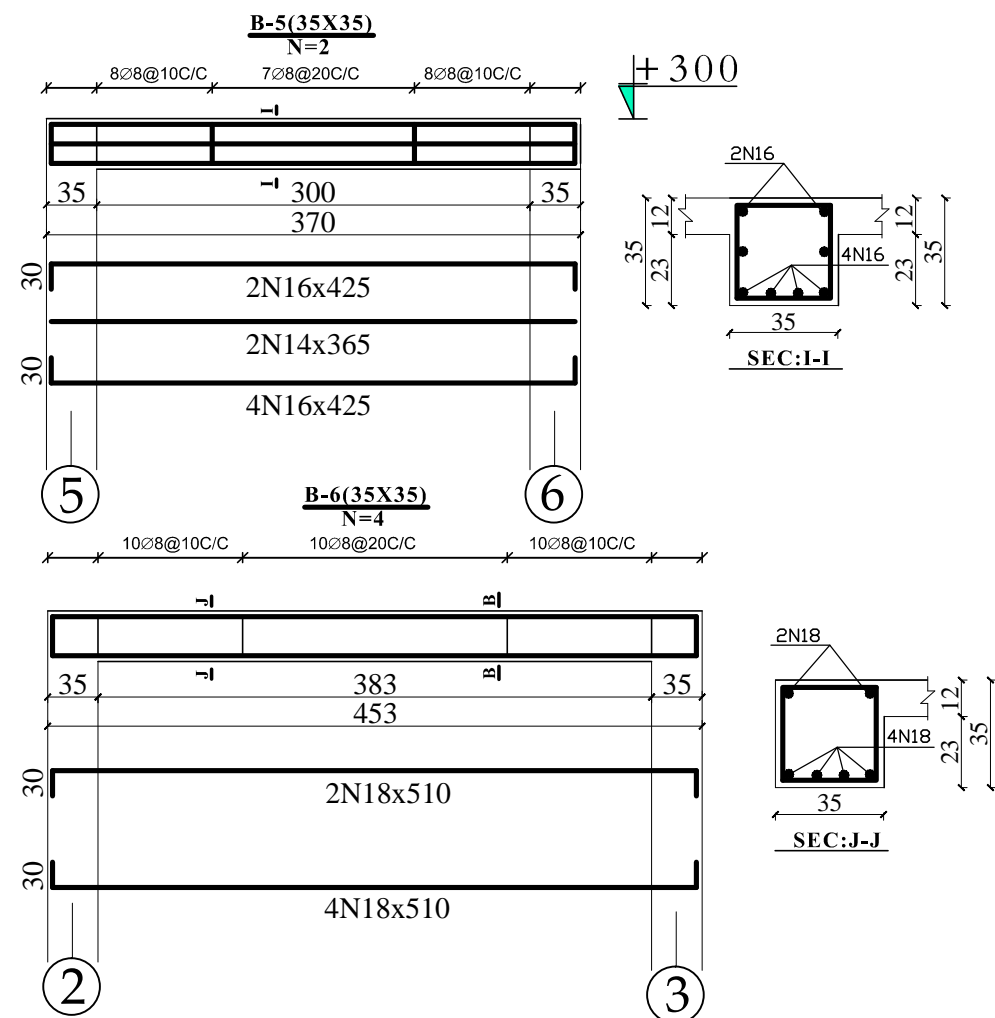
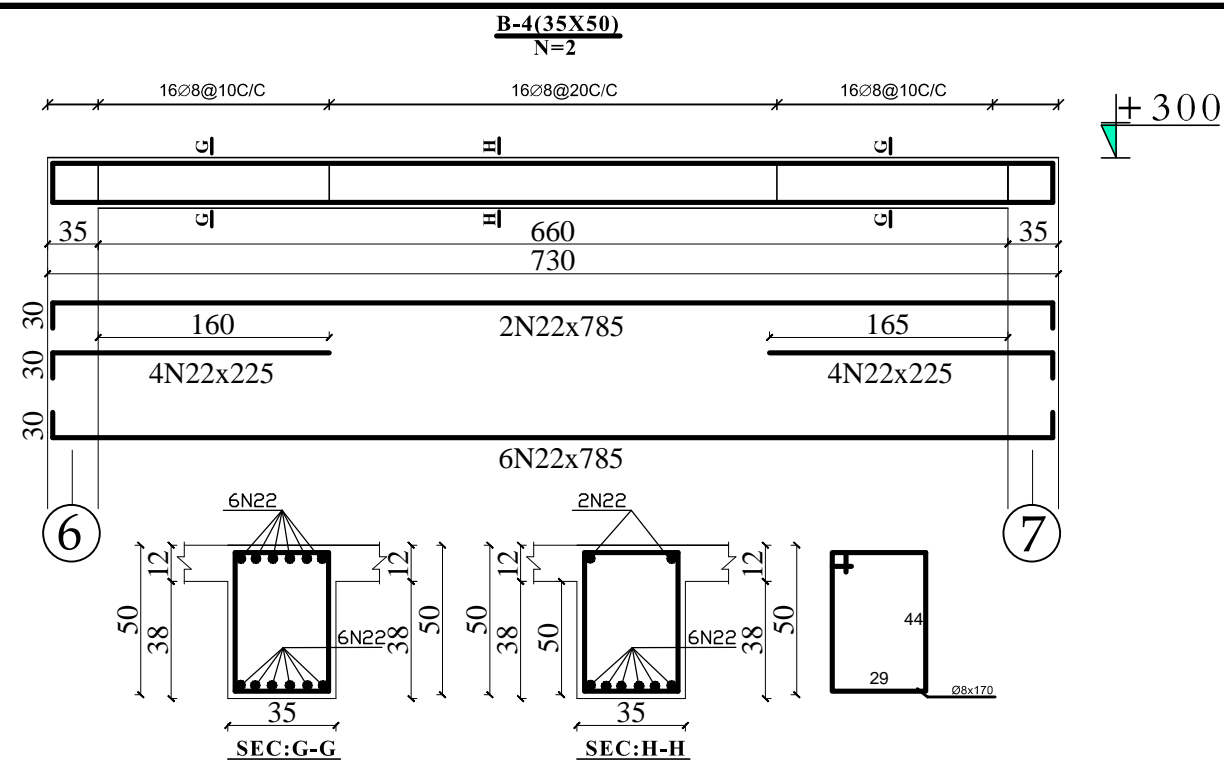
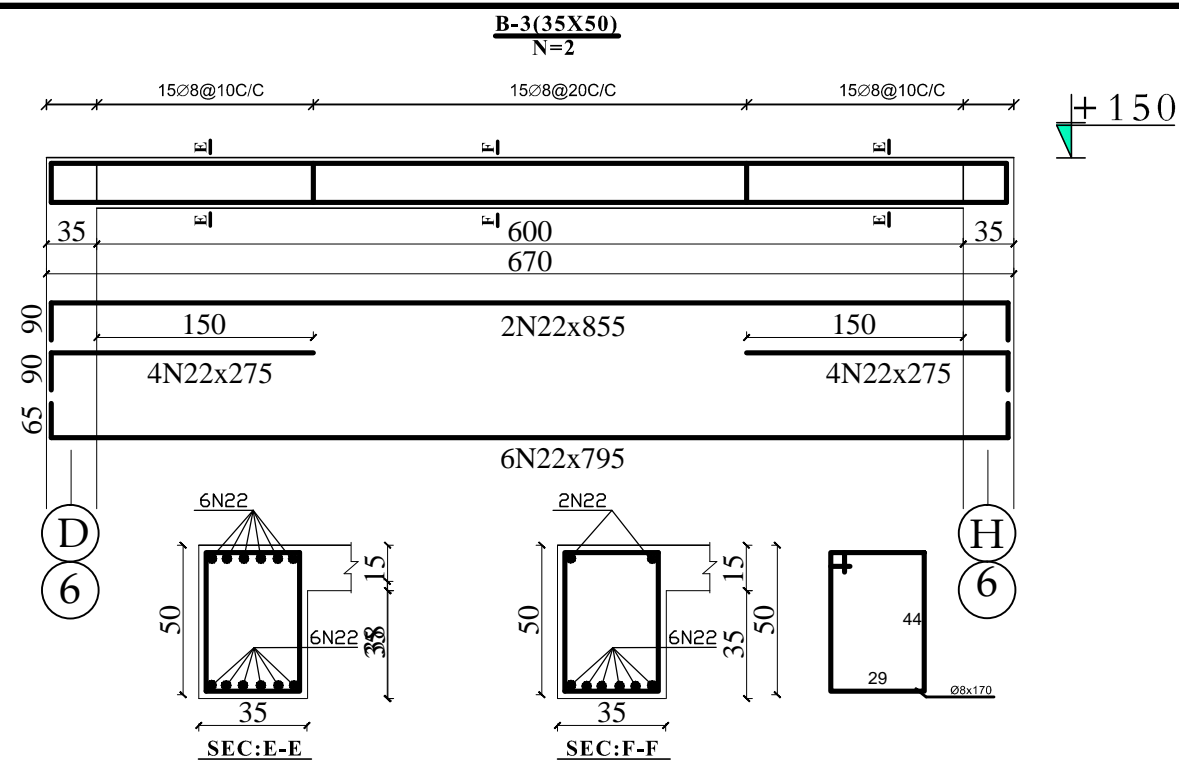
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CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	6 25
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013		

PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

COLUMNS DETAILING



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

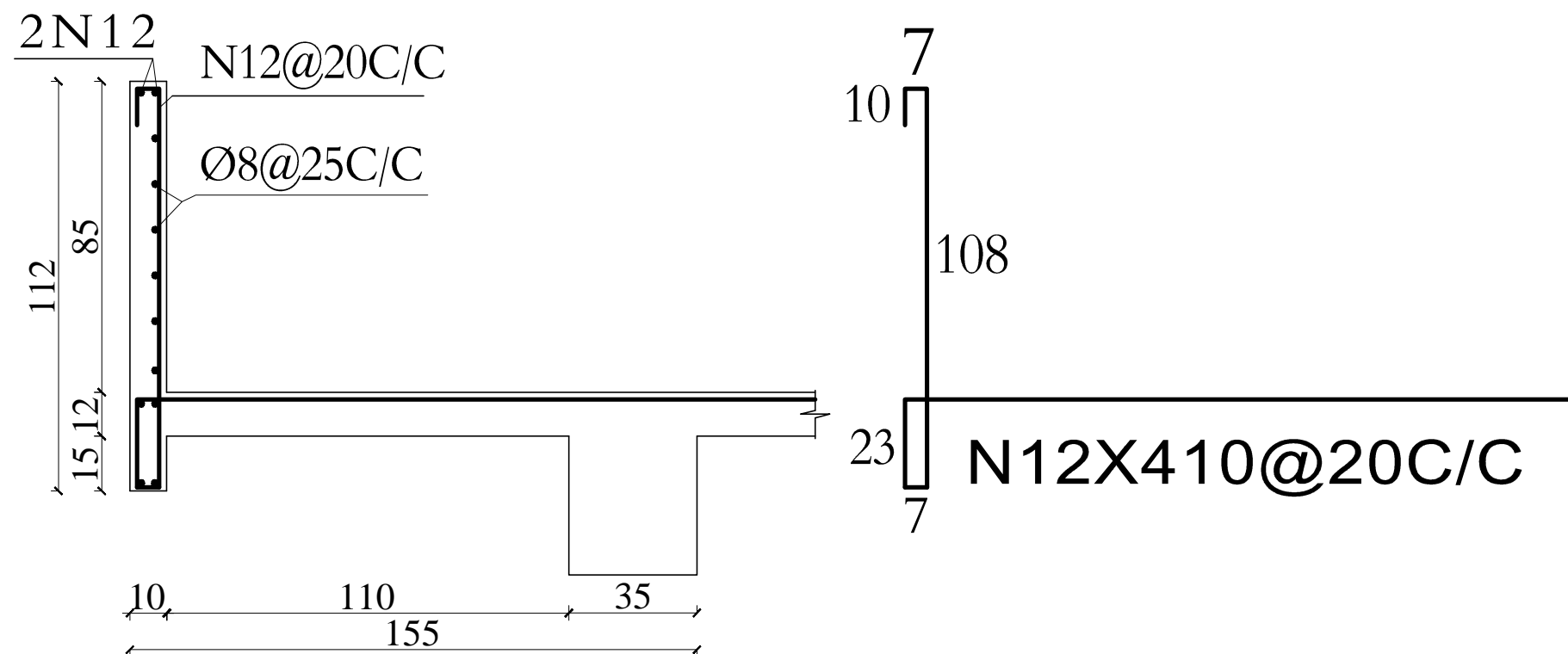
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CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	8
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013		25

PROJECT NAME

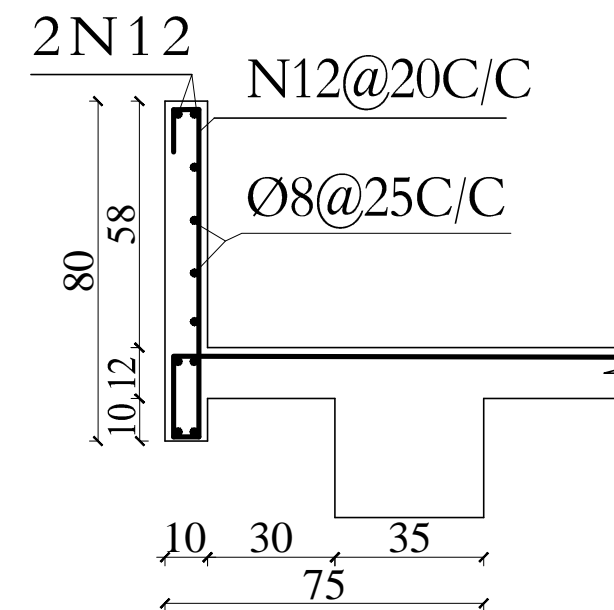
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

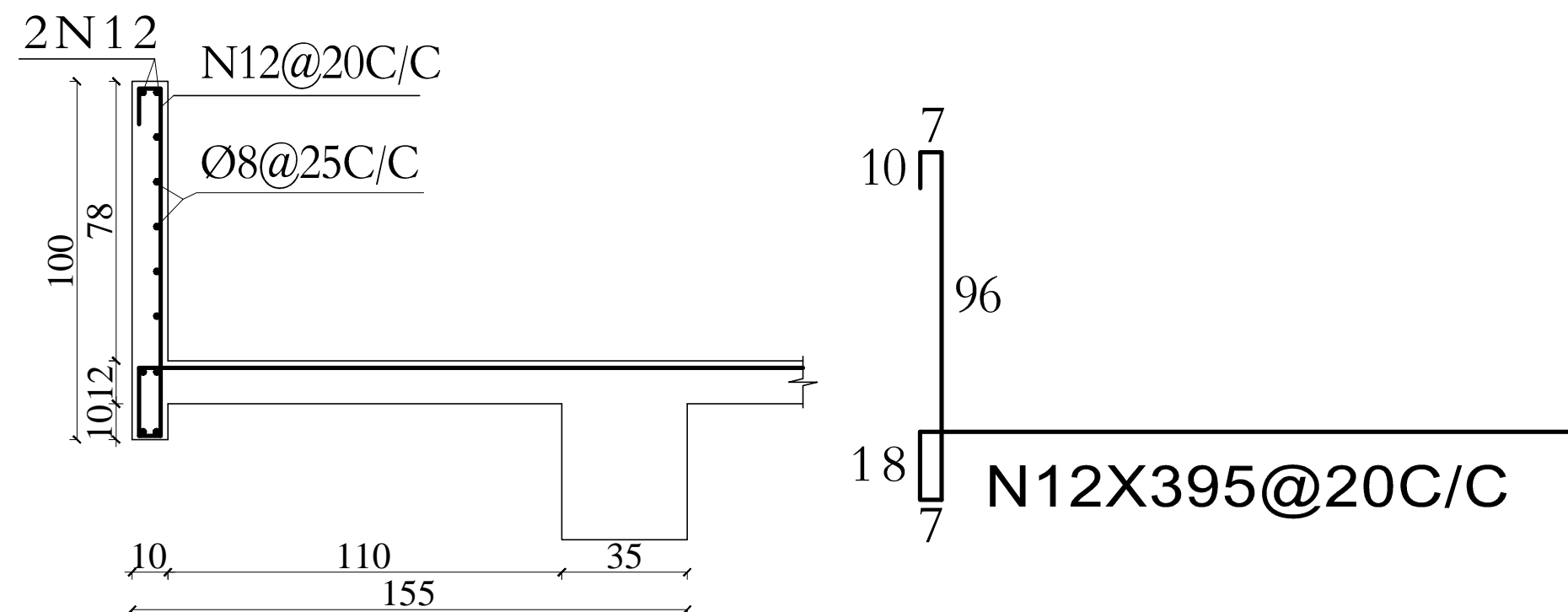
BEAMS DETAILING



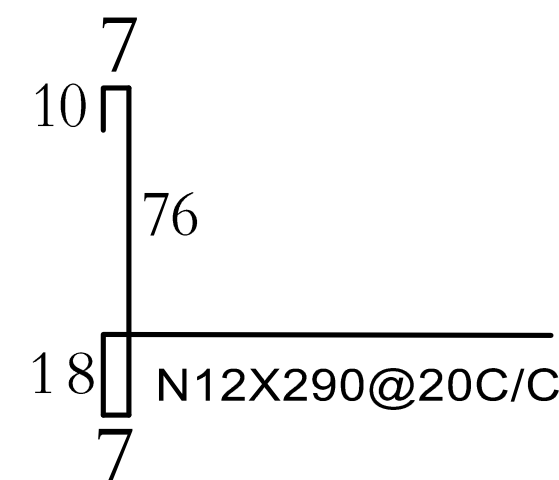
DETAIL :A



DETAIL :C



DETAIL :B

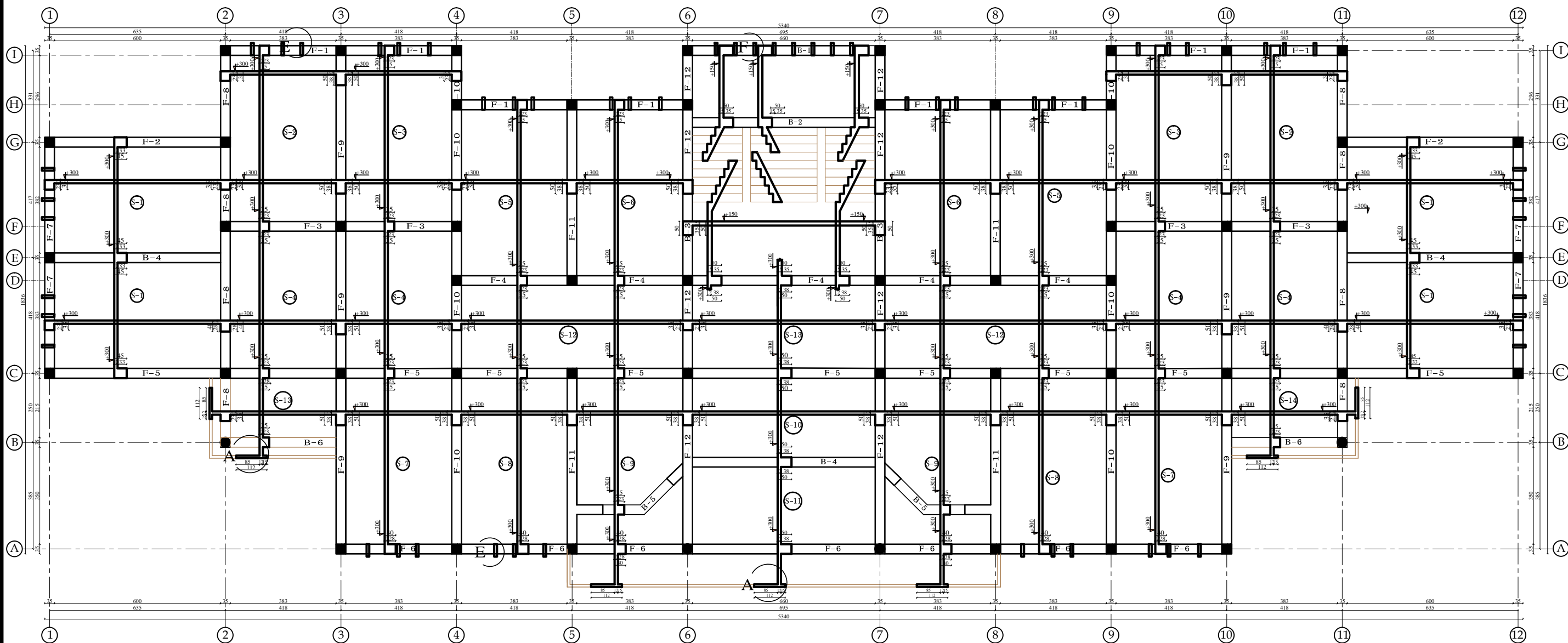


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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	9 25	DRAWING TITLE	PARAPETS AND CANTILEVERS DETAILING
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				



GROUND FLOOR SHUTTERING PLAN AT LEVEL +300



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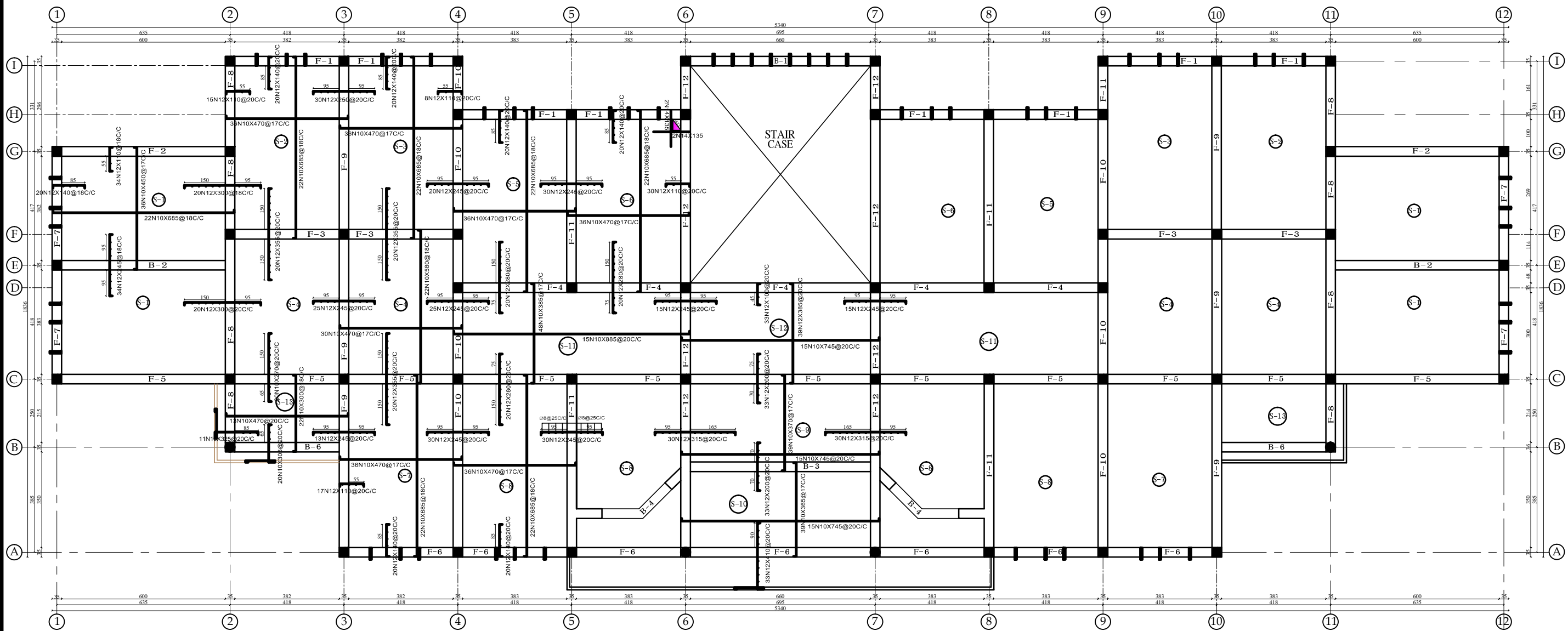


STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013	

STRUCTURAL
10 25

PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
DRAWING TITLE	GROUND FLOOR SHUTTERING PLAN AT LEVEL+300



GROUND FLOOR REINFORCEMENT PLAN AT LEVEL +300



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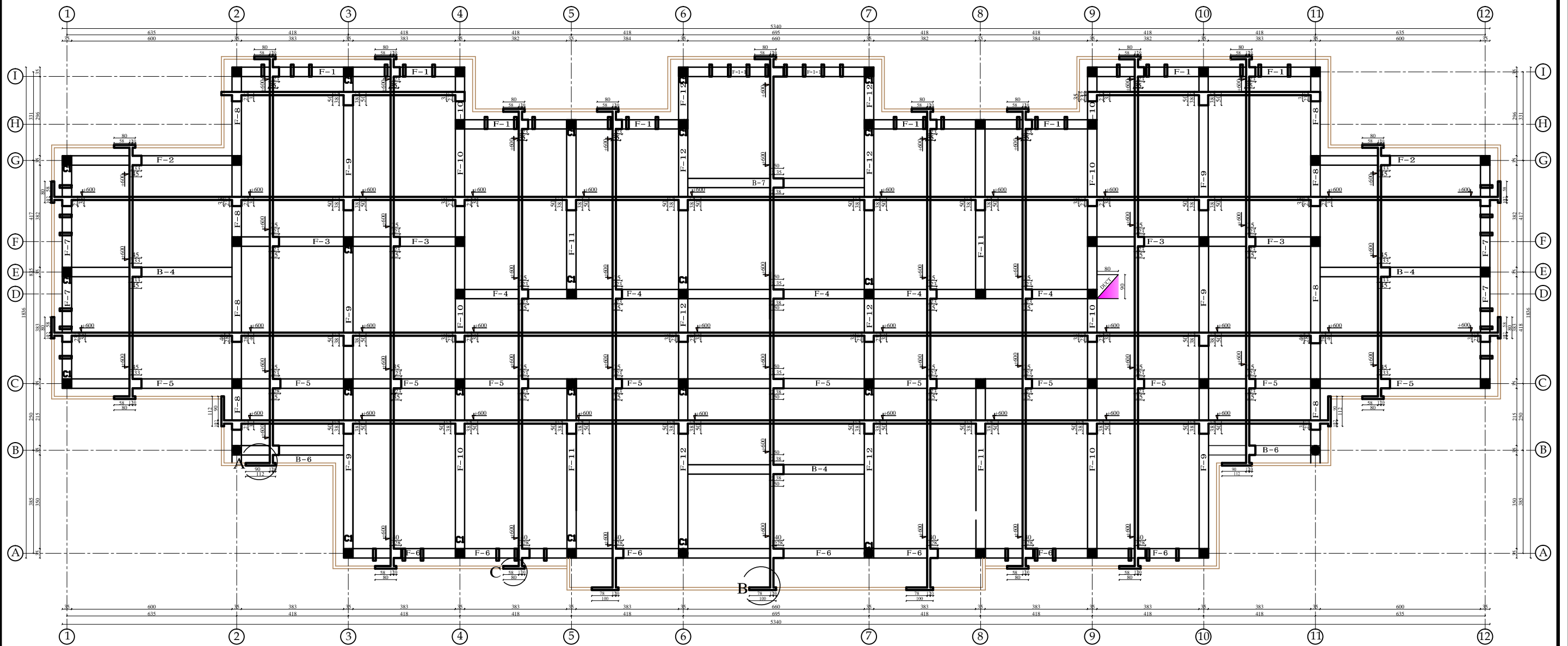


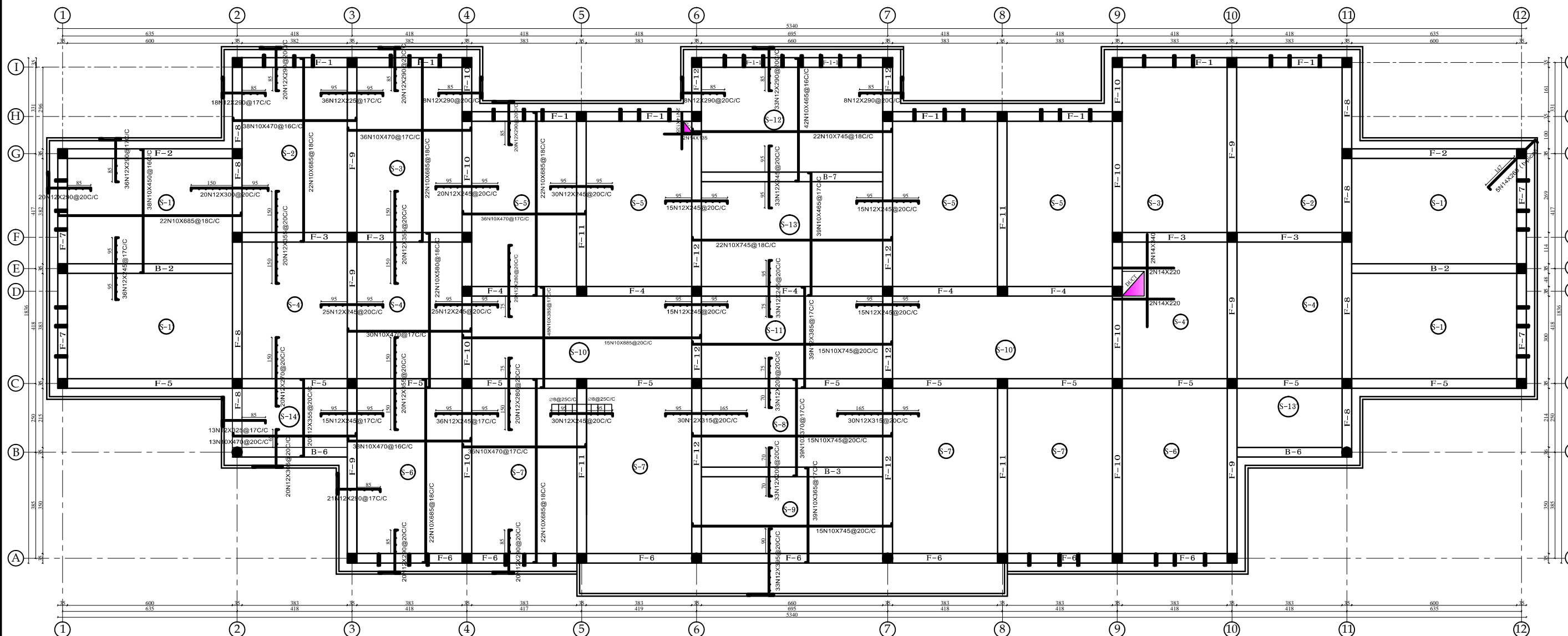
STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C./DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013	

STRUCRURAL
11 25

PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
DRAWING TITLE	GROUND FLOOR REINFORCEMENT PLAN AT LEVEL+300





FIRST FLOOR REINFORCEMENT PLAN AT LEVEL +600



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013	

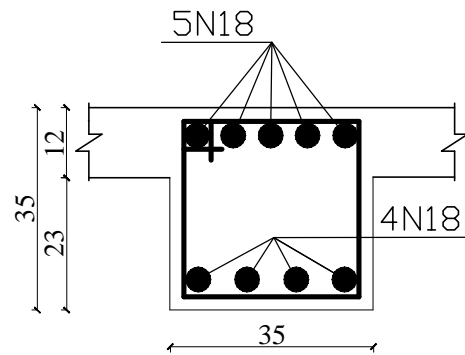
STRUCTURAL
13 25

PROJECT NAME
DRAWING TITLE

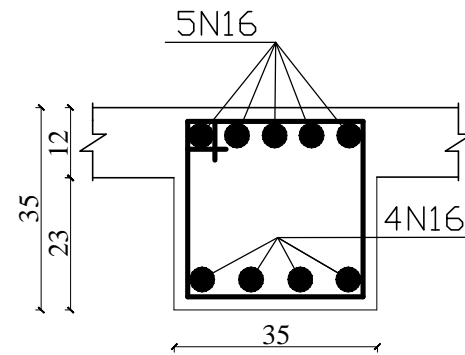
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET
FIRST FLOOR REINFORCEMENT PLAN AT
LEVEL+600

F-1(35X35) N=4

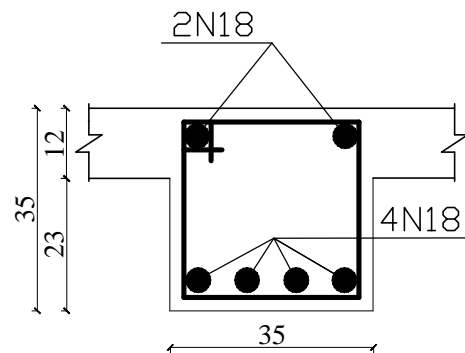
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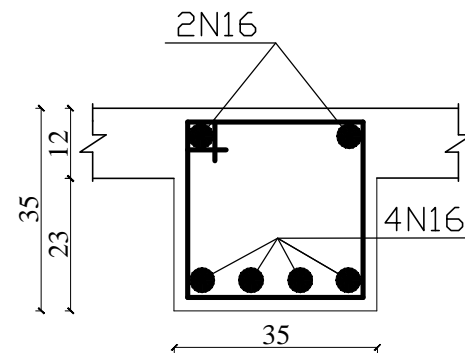
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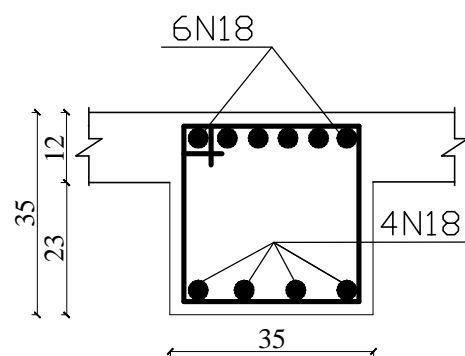
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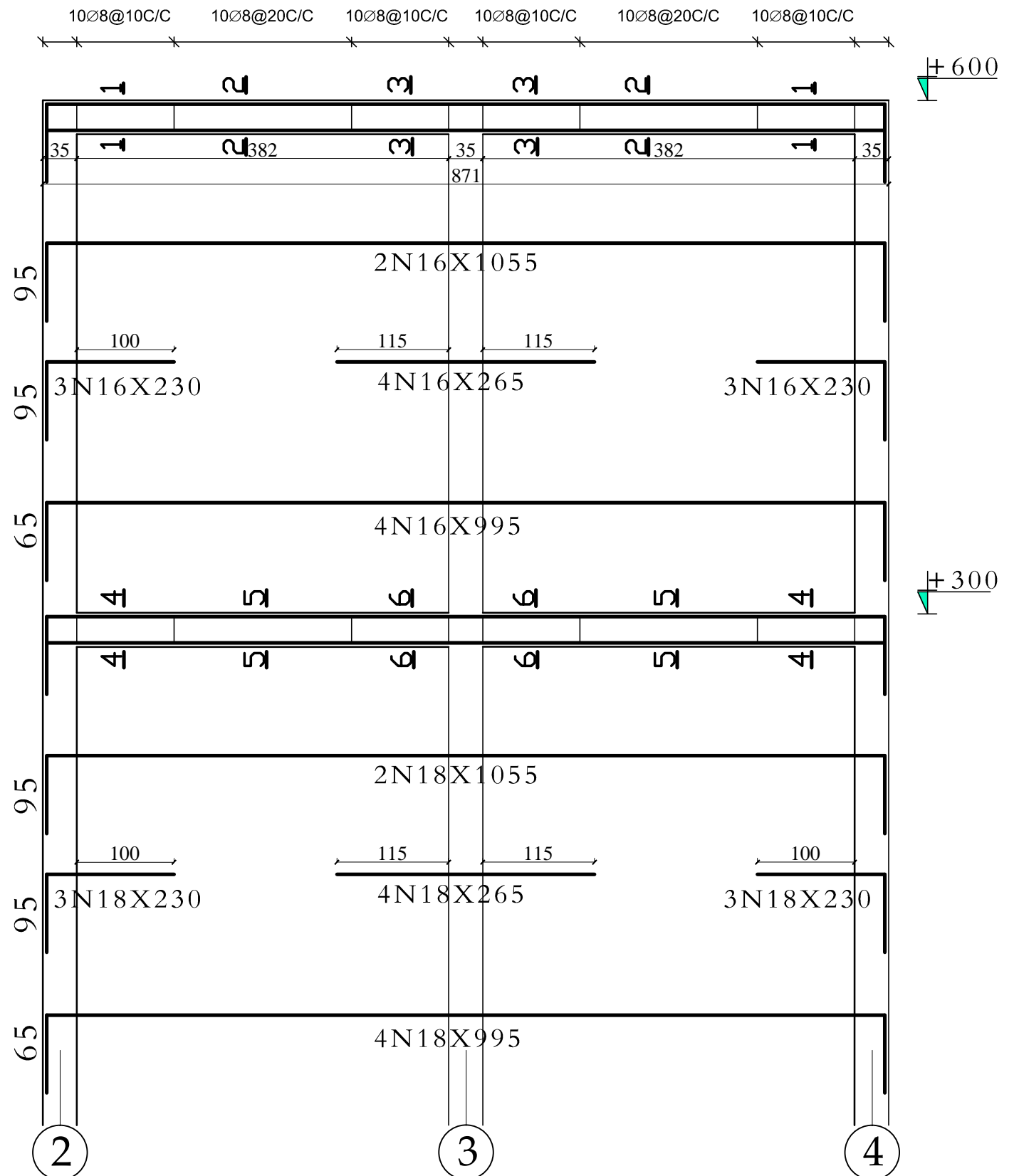
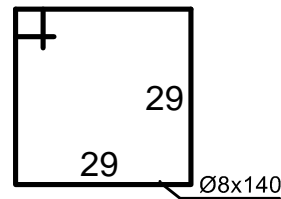
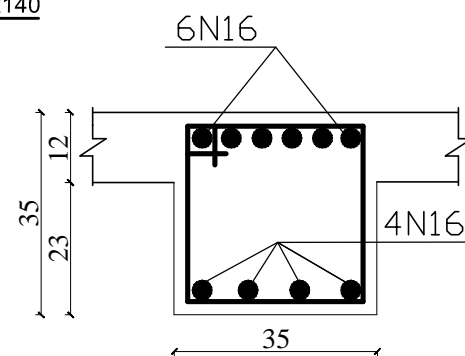
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SEC:6-6



SEC:3-3

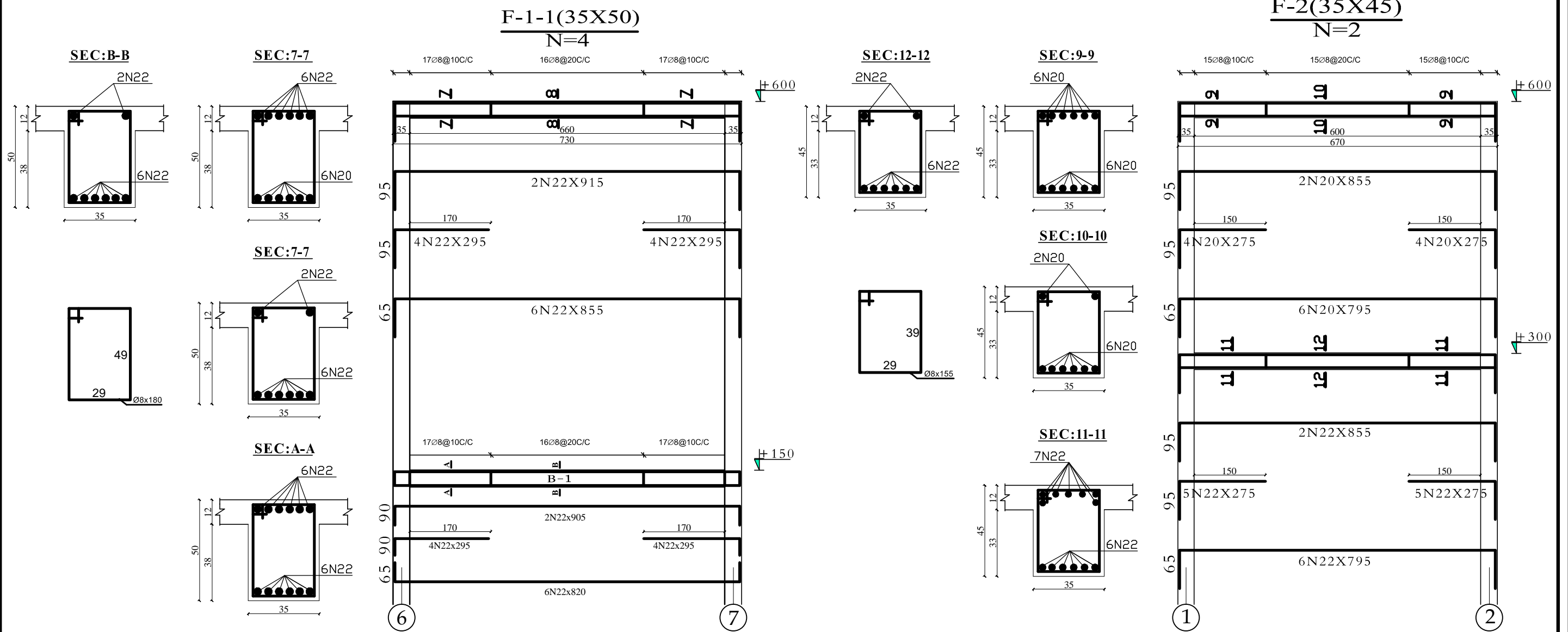


MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	14 25	DRAWING TITLE	(FRAME-1)
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013

DRAWING TYPE	STRUCTURAL
SHEET No	15 25

PROJECT NAME

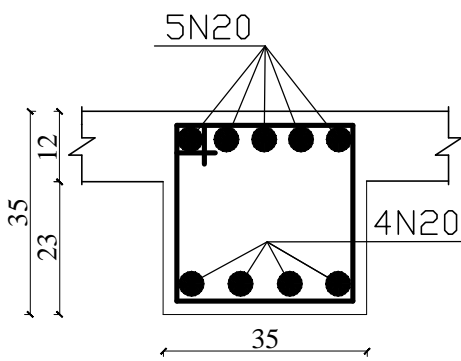
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

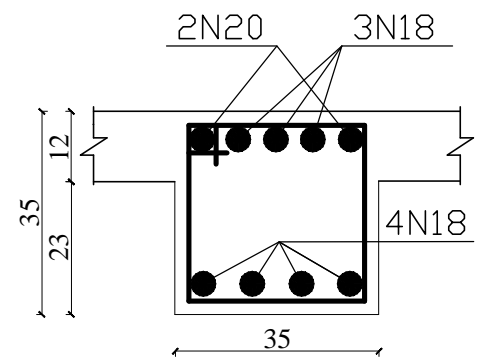
(FRAME-1-1AND FRAME-2)

F-3(35X35)
N=2

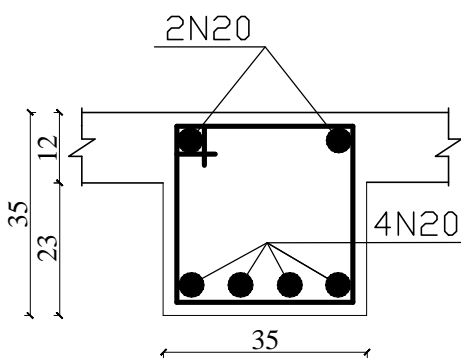
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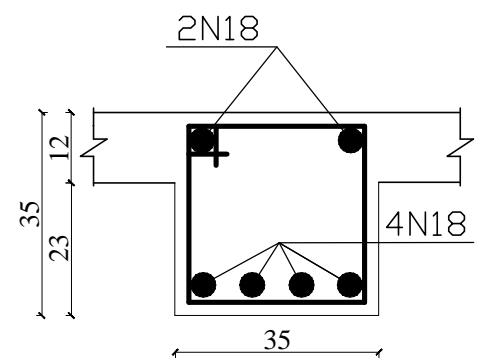
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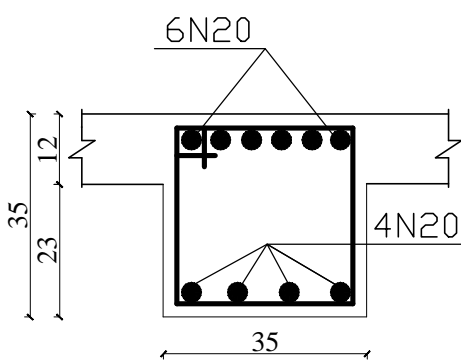
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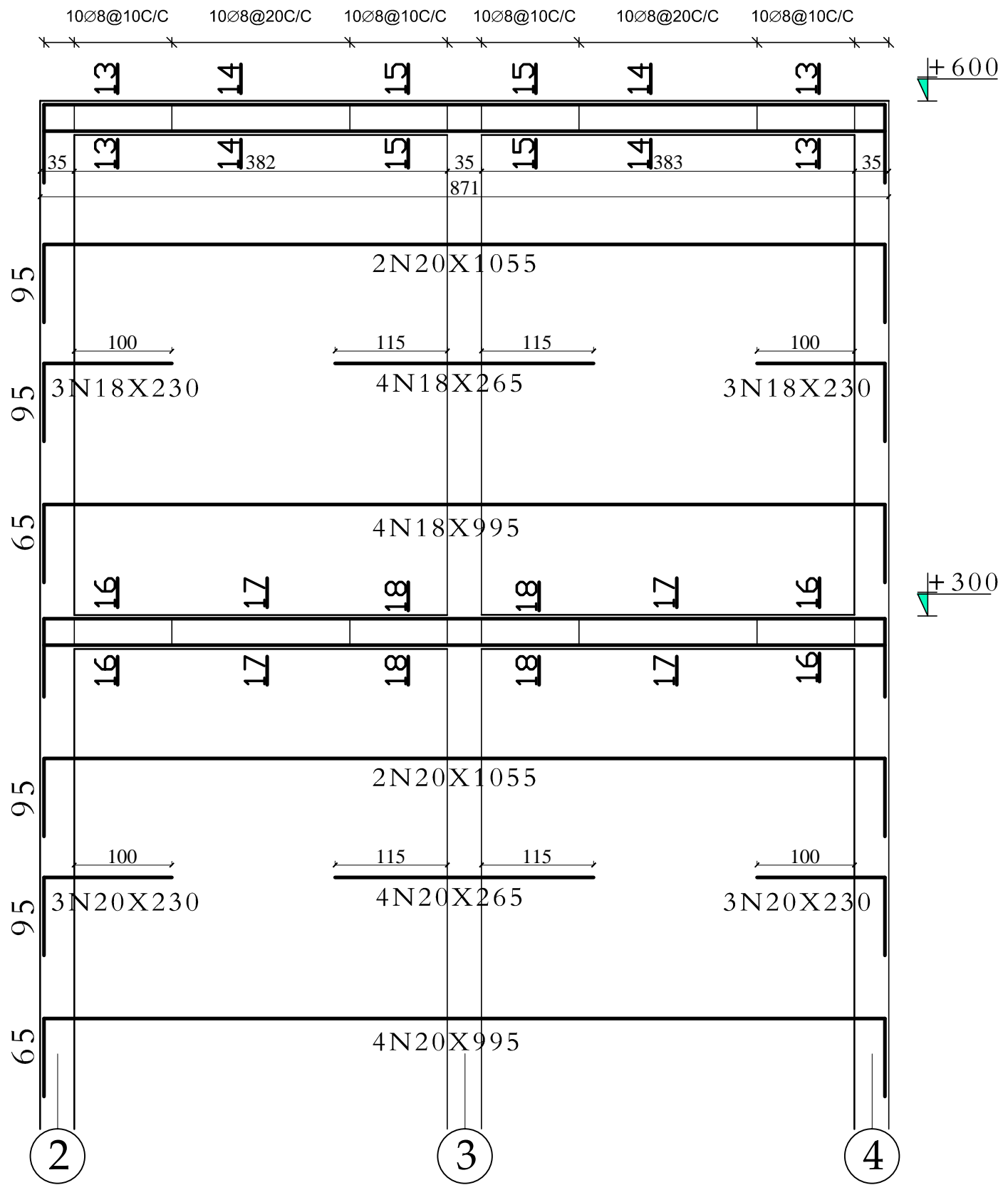
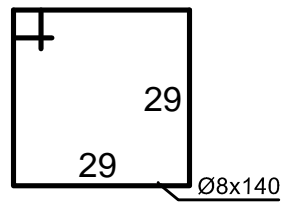
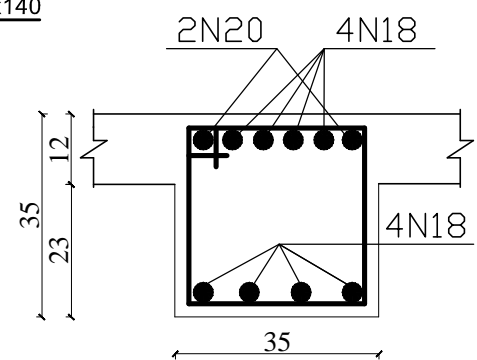
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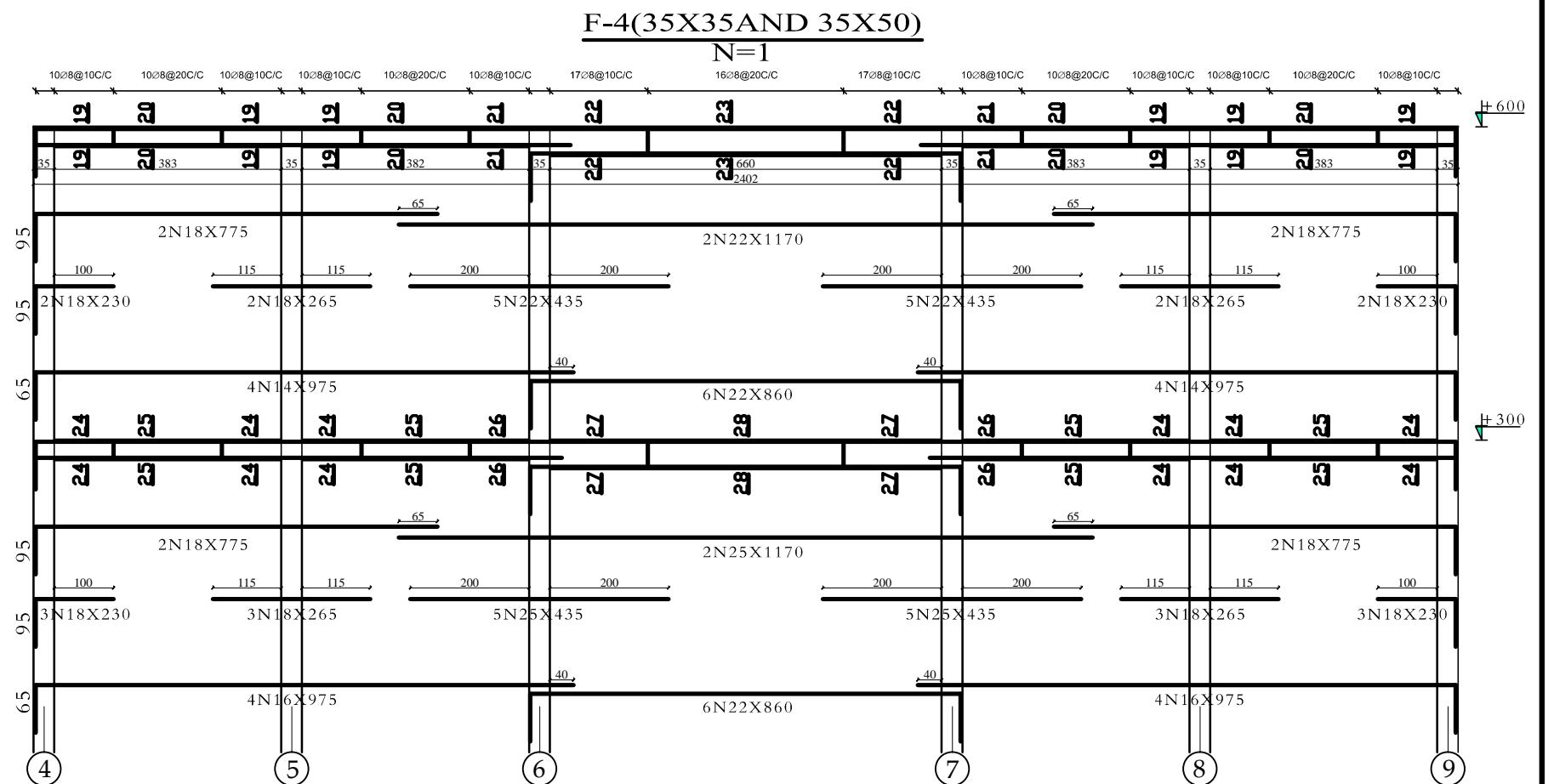


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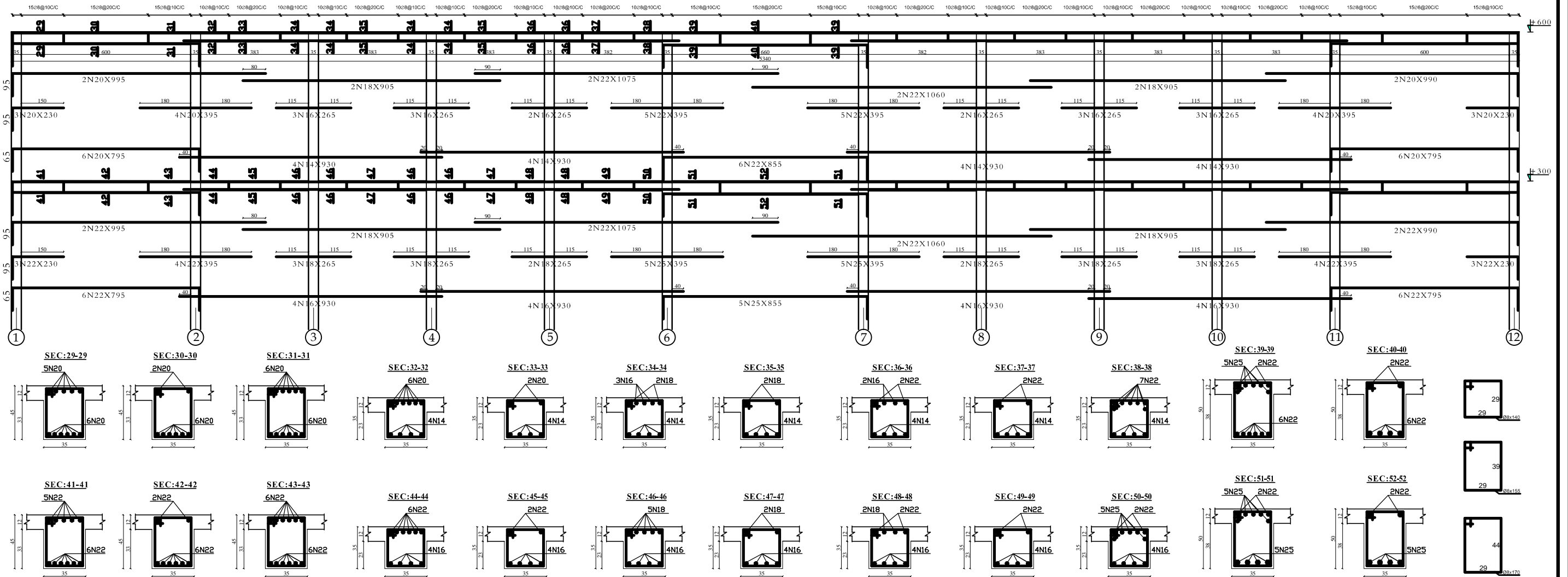


SEC:15-15





F-5(35X35,35X45AND35X50)
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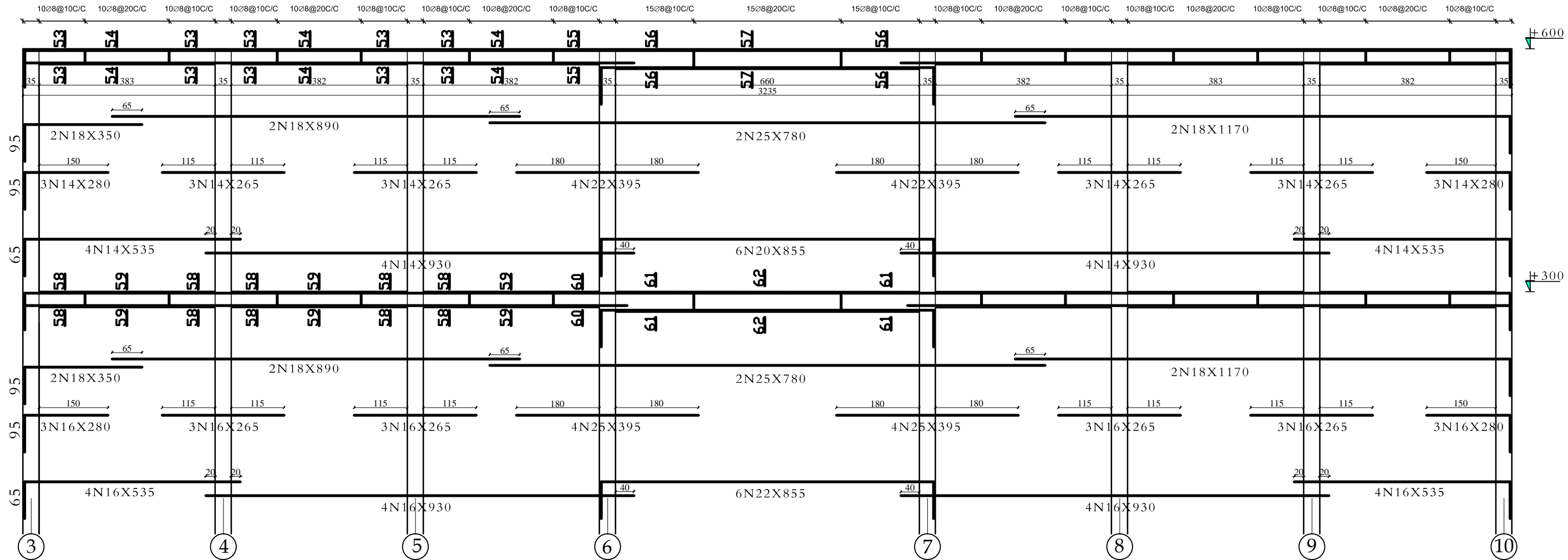
MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



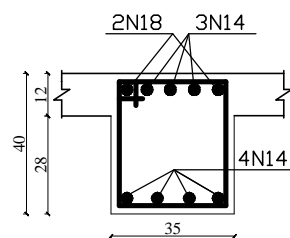
STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	18 25	DRAWING TITLE	(FRAME-5)
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				

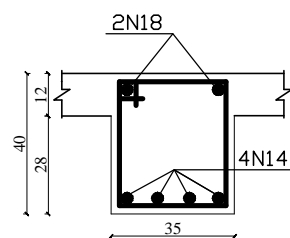
F-6(35X40AND35X50)
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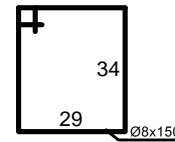
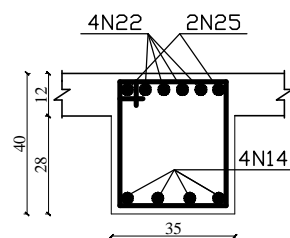
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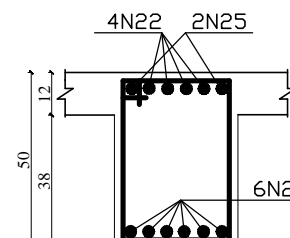
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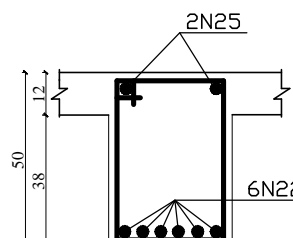
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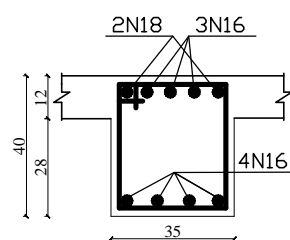
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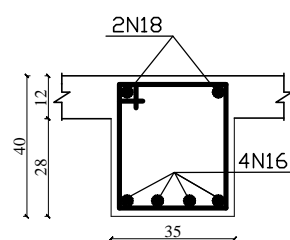
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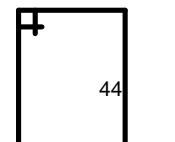
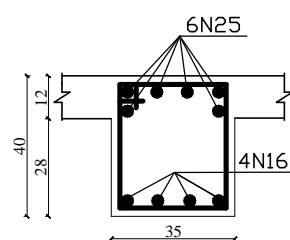
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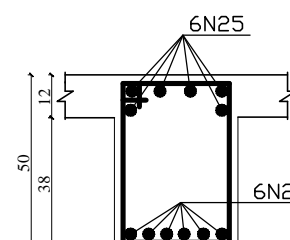
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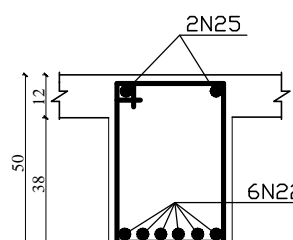
SEC:60-60



SEC:61-61



SEC:62-62



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DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C./DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013	

STRUCTURAL
19 25

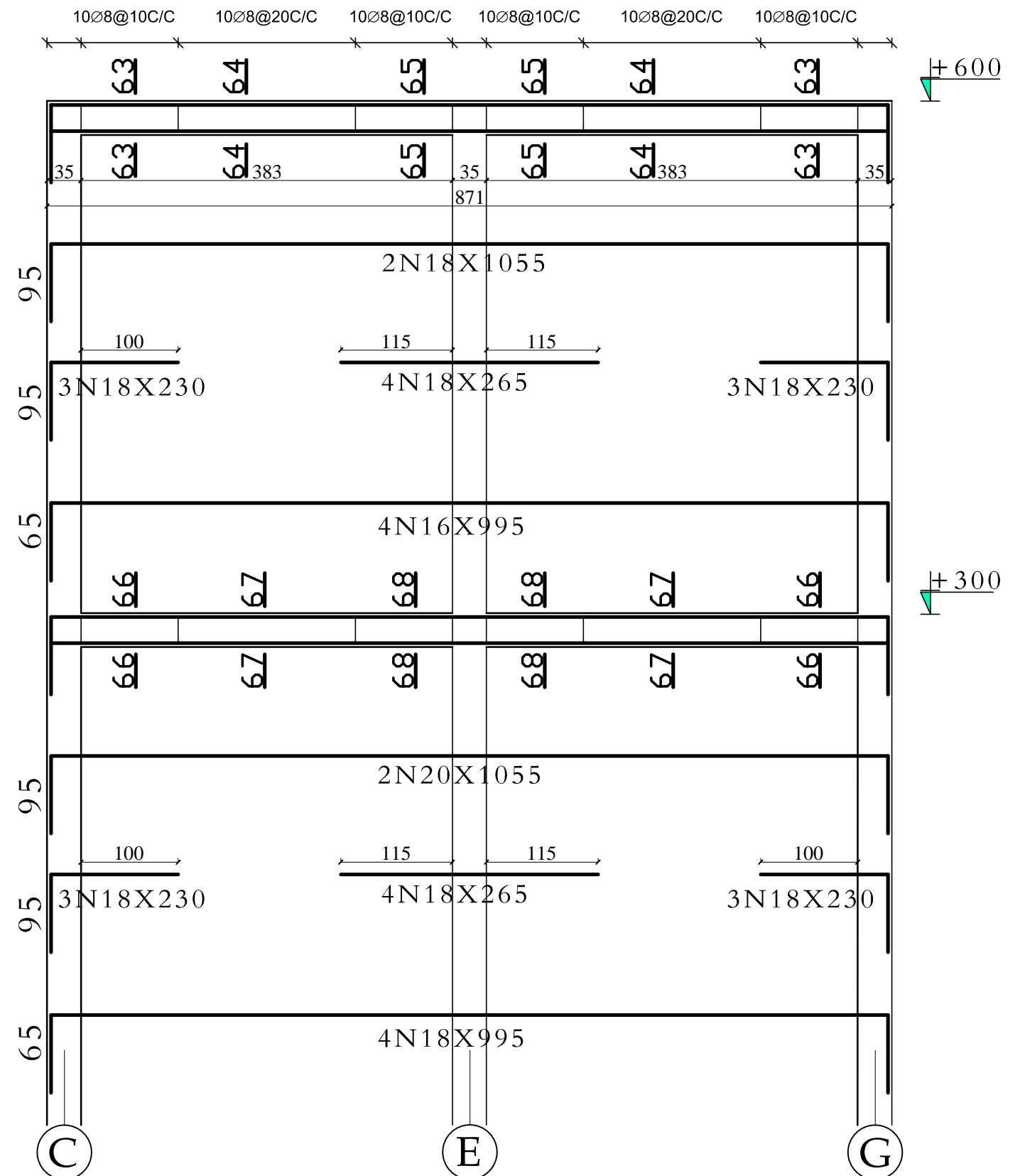
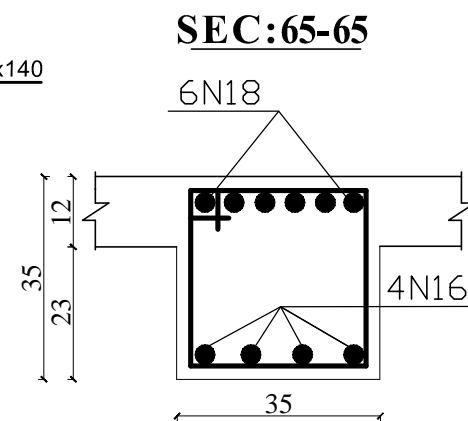
PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABORATORY CLASS RCC.IRON SHEET

DRAWING TITLE

(FRAME-6)

N=2



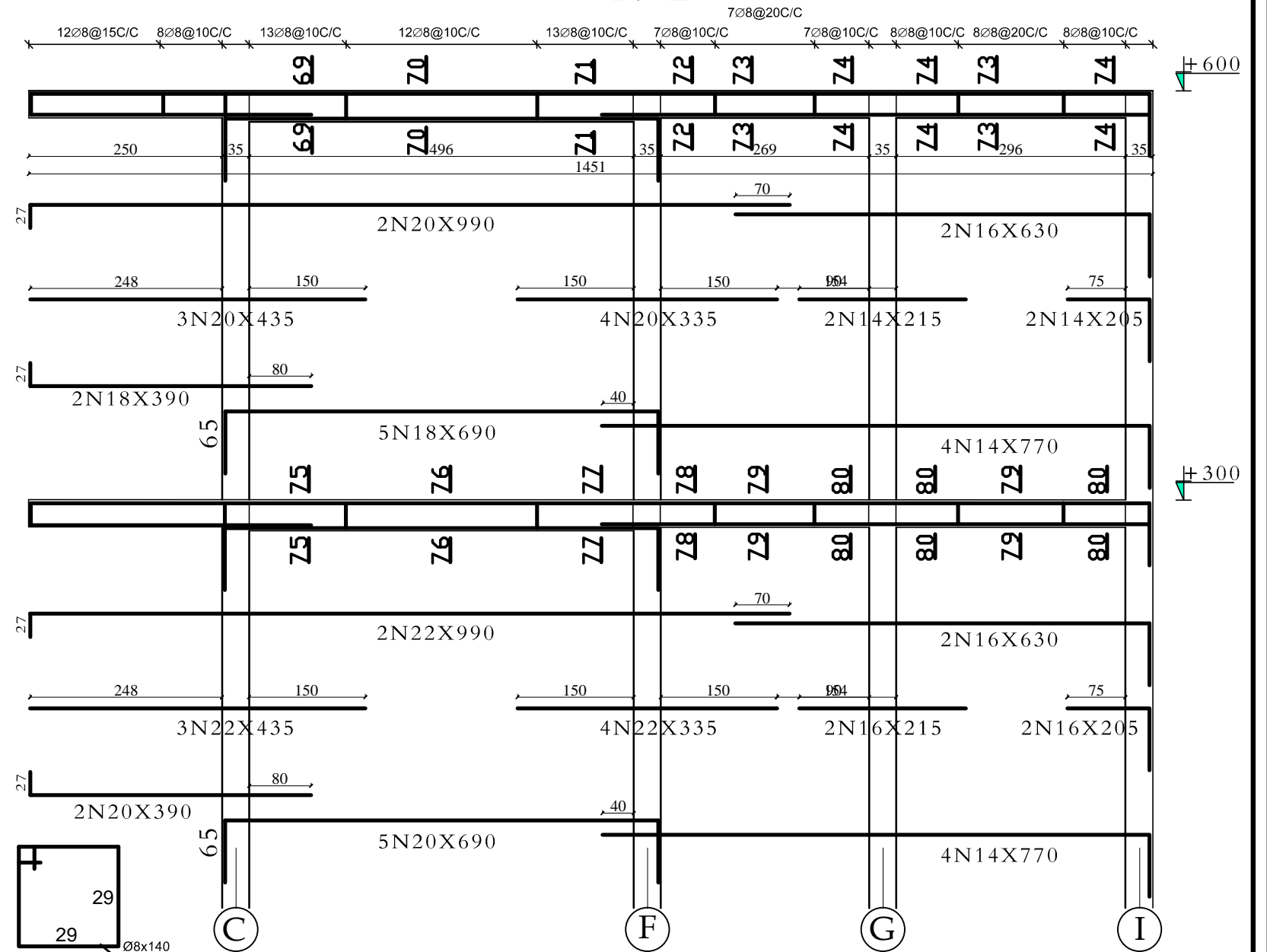
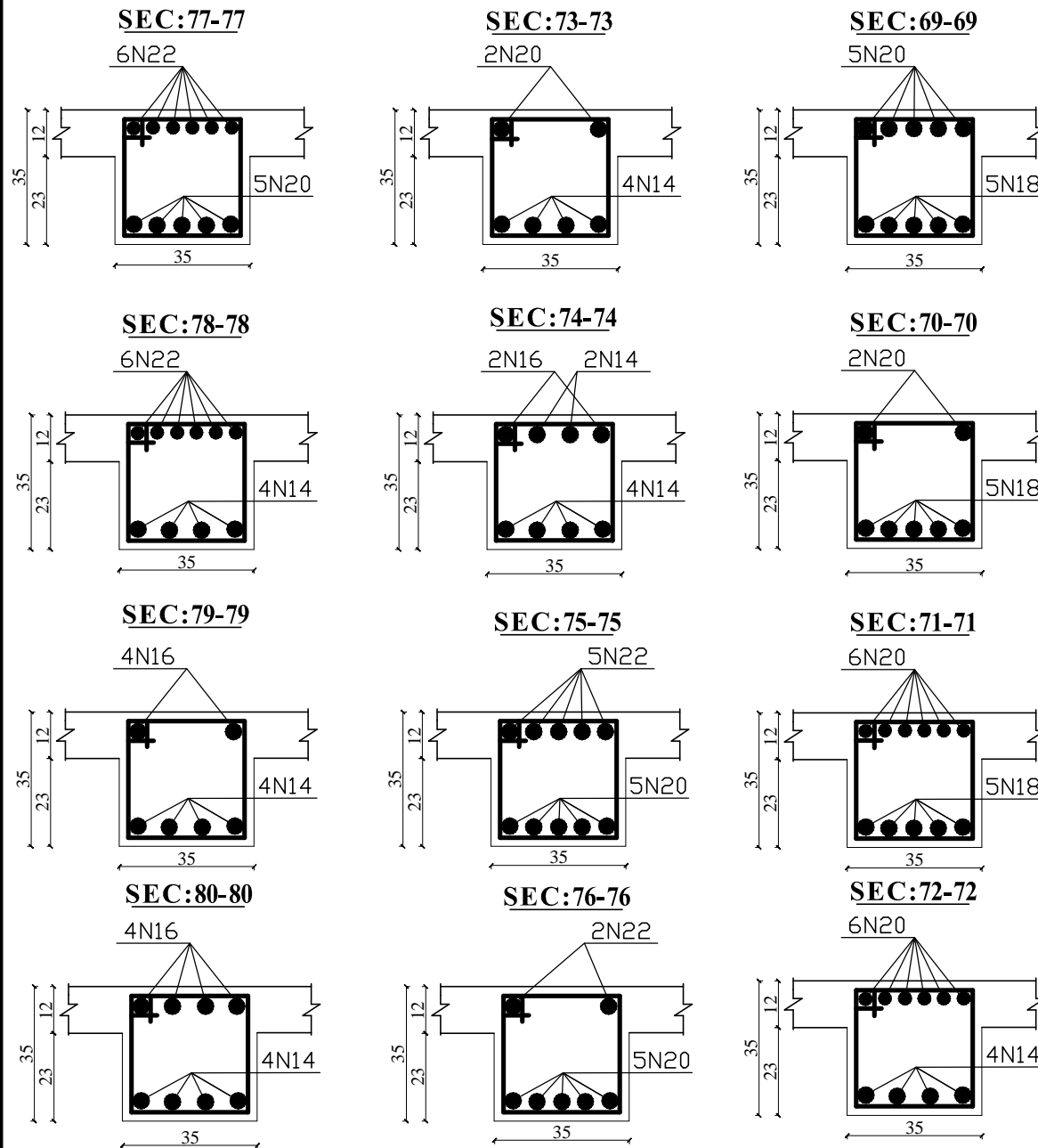
MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION

STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"> 20 25 </div> </div>	DRAWING TITLE	(FRAME-7)
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				

F-8(35X35AND35X40)

N=2



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STANDARD SCHOOL DESIGN
IN AFGHANISTAN

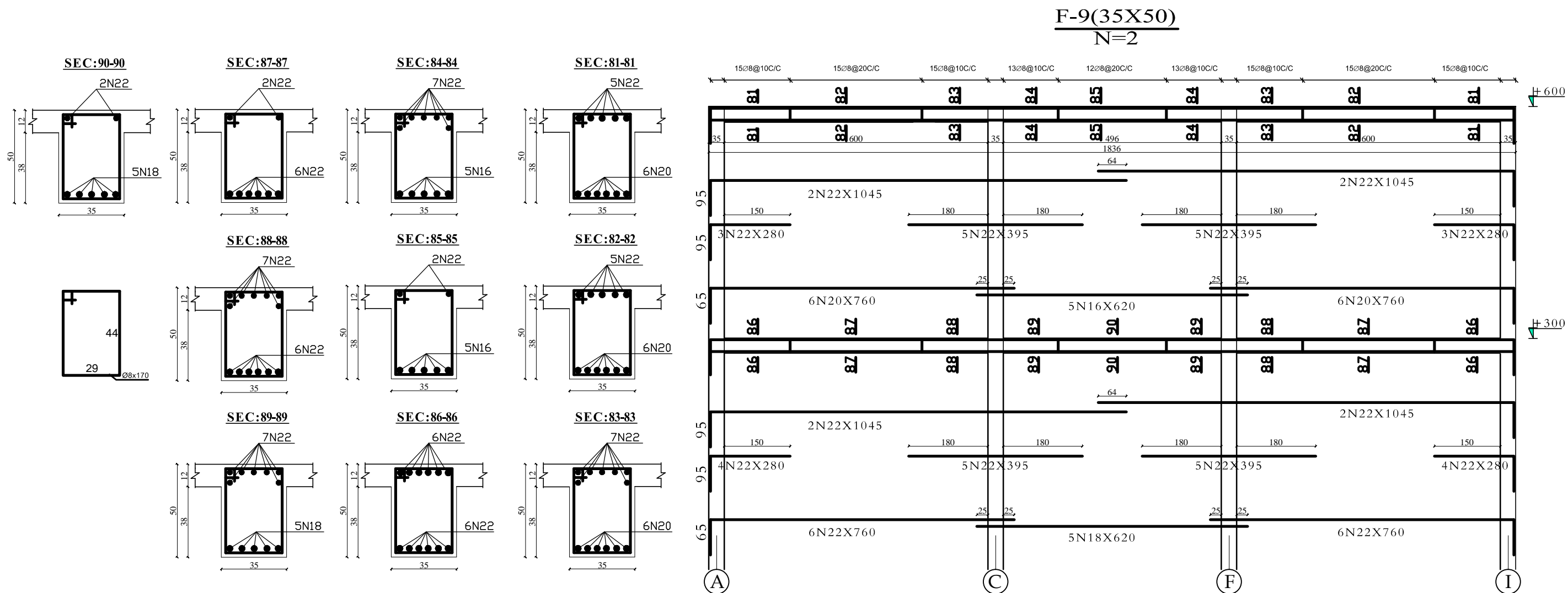
R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	21 25
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013		

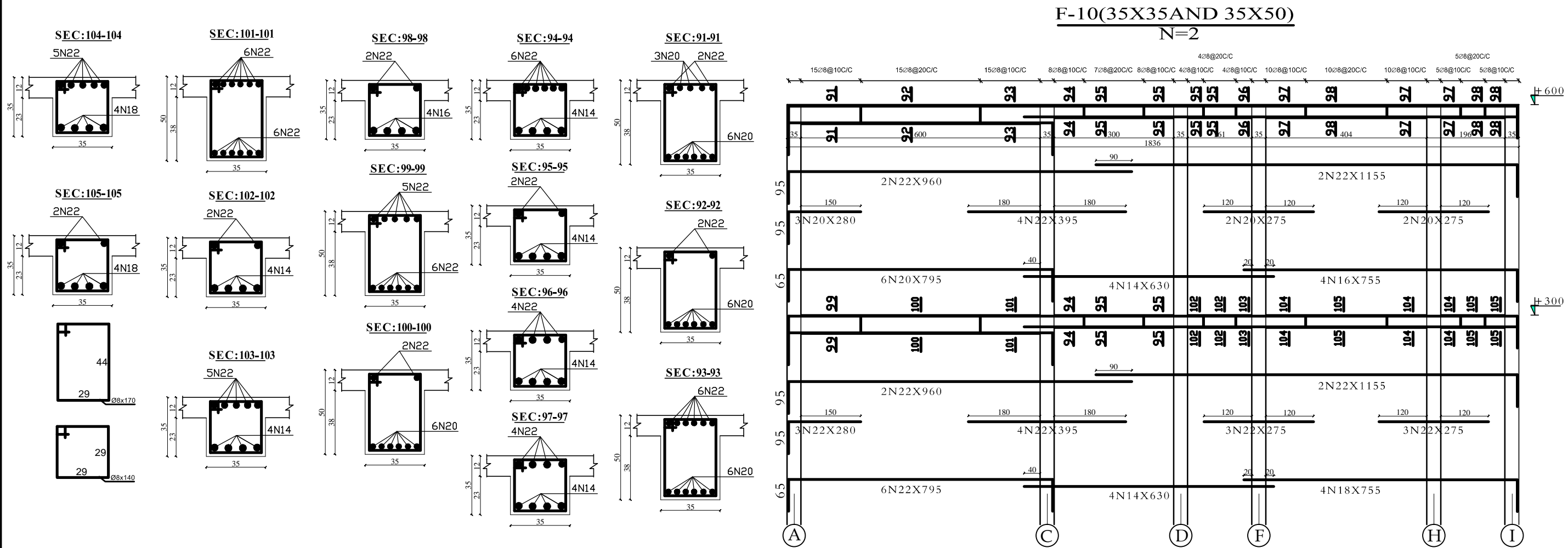
PROJECT NAME

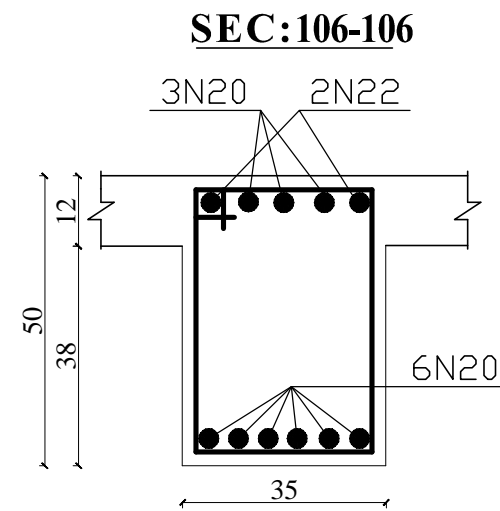
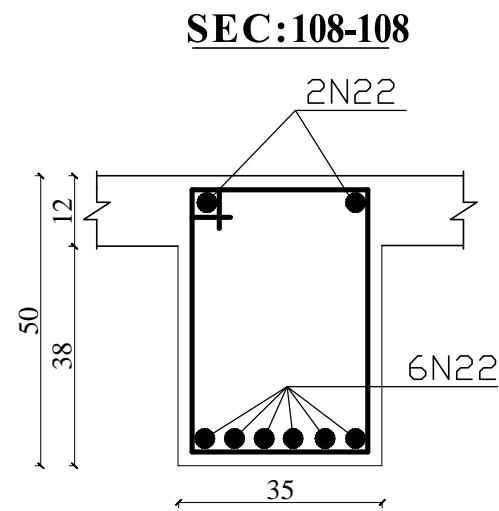
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

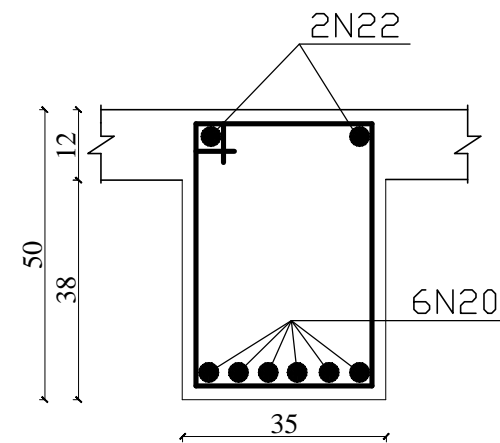
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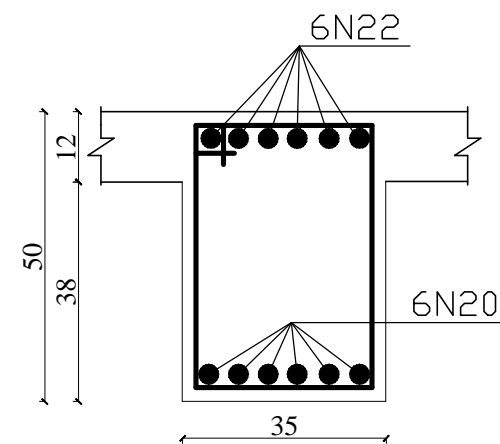




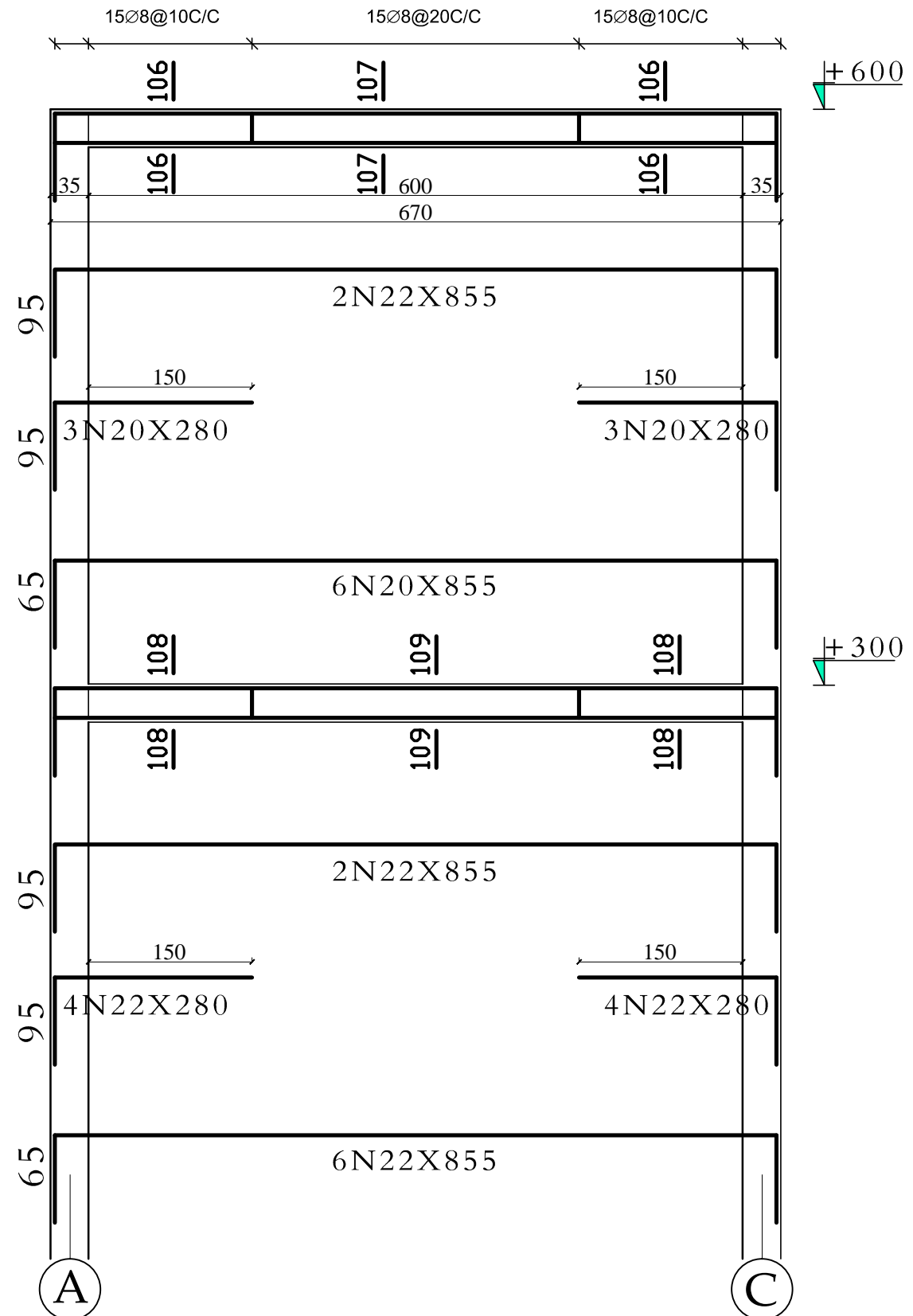
SEC:107-107



SEC:107-107



F-11(35X50)
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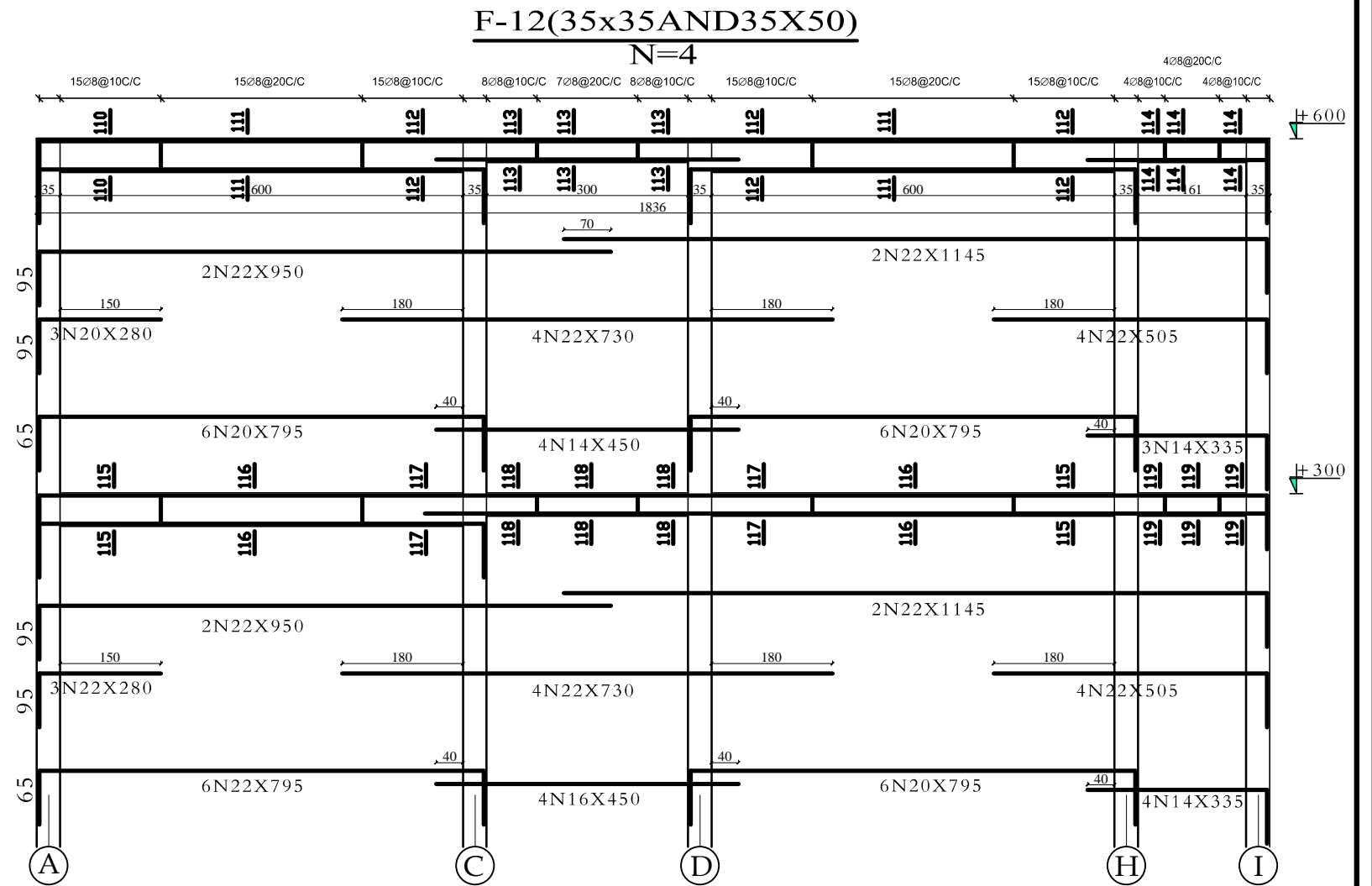
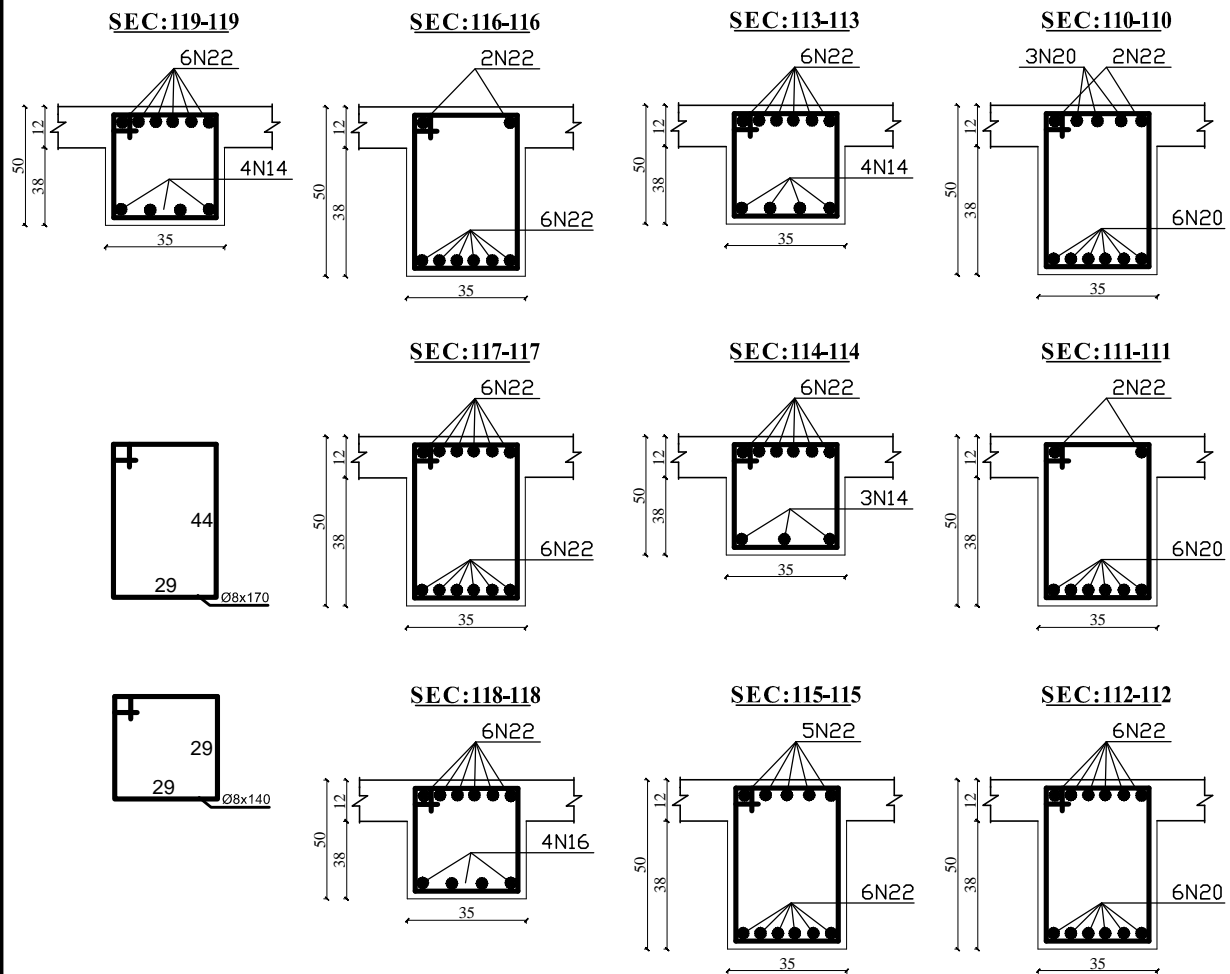


MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWINGTYPE	STRUCTURAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	24 25	DRAWING TITLE	(FRAME-12)
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013				



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

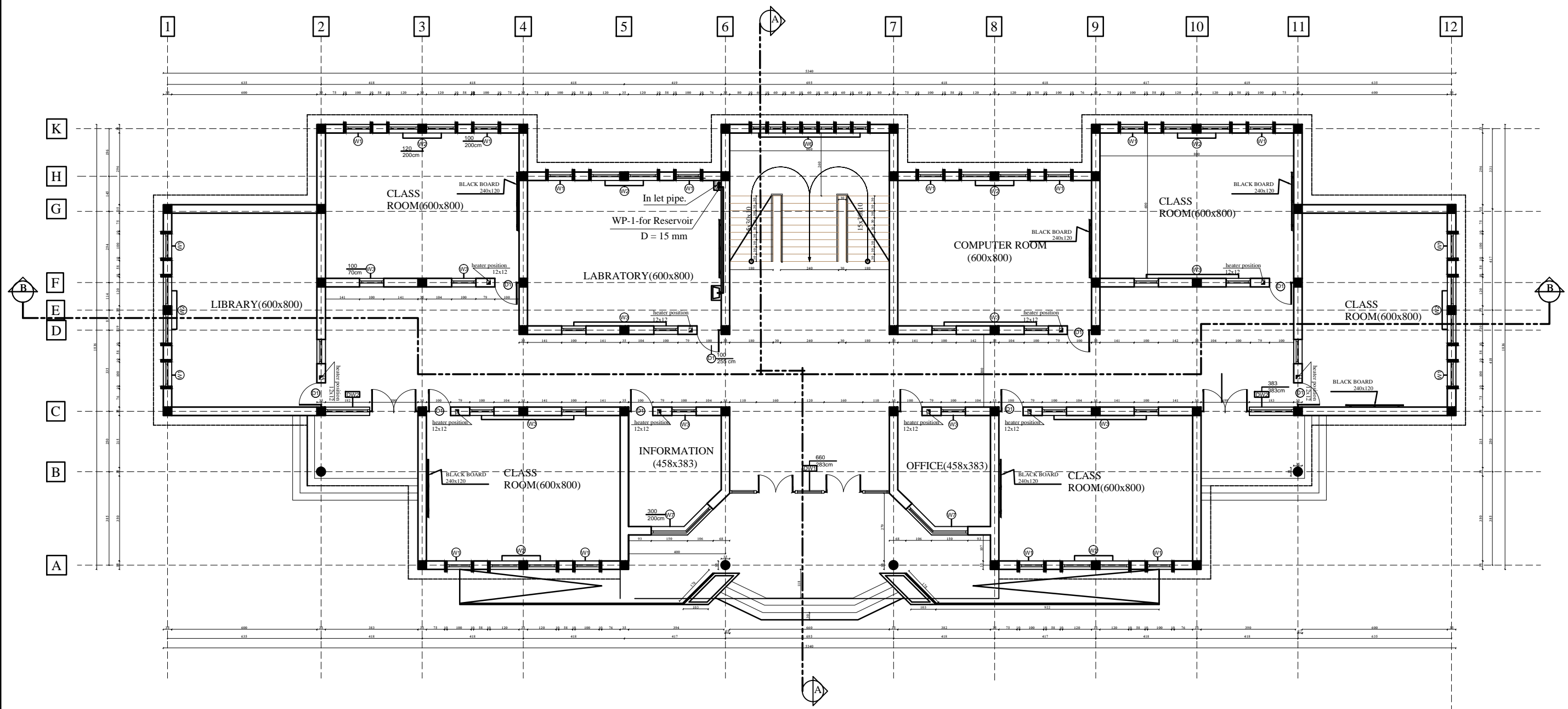
R.C.C/DESIGN	ENG.HEDAYATULAH	APPROVED:Doc/Moe	ENG.AB.MOMEN. RAD	DRAWING TYPE	STRUCTURAL
CHECKED BY	ENG.M.RAHIM	SCALE	AS SHOWN (A3)	SHEET No	25 25
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	8-Jan-2013		

PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

(FRAME-12)



water supply plan

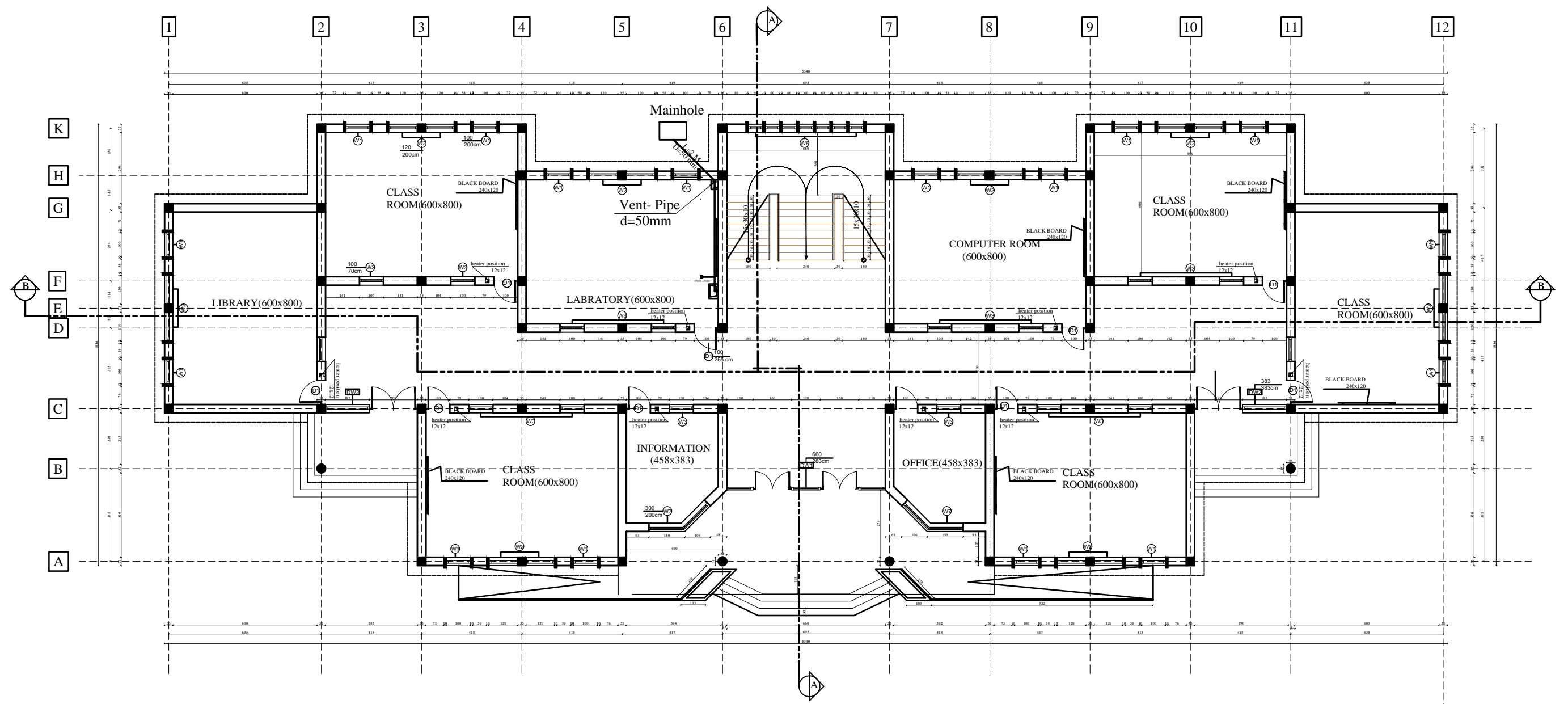


MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

Water supply/Design.	Eng.Huma Sadat .	APPROVED: Doc/Moe	ENG.AB MOMEN RAD	DRAWING No	1 4	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABORATORY CLASS RCC.IRON SHEET
CHEEKED BY	Eng . Mohammad Rahim.	SCALE	AS SHOWN (A ₃)	SHEET No		DRAWING TITLE	Plan of Water Supply.
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	15-12-2012				



canalization plan.

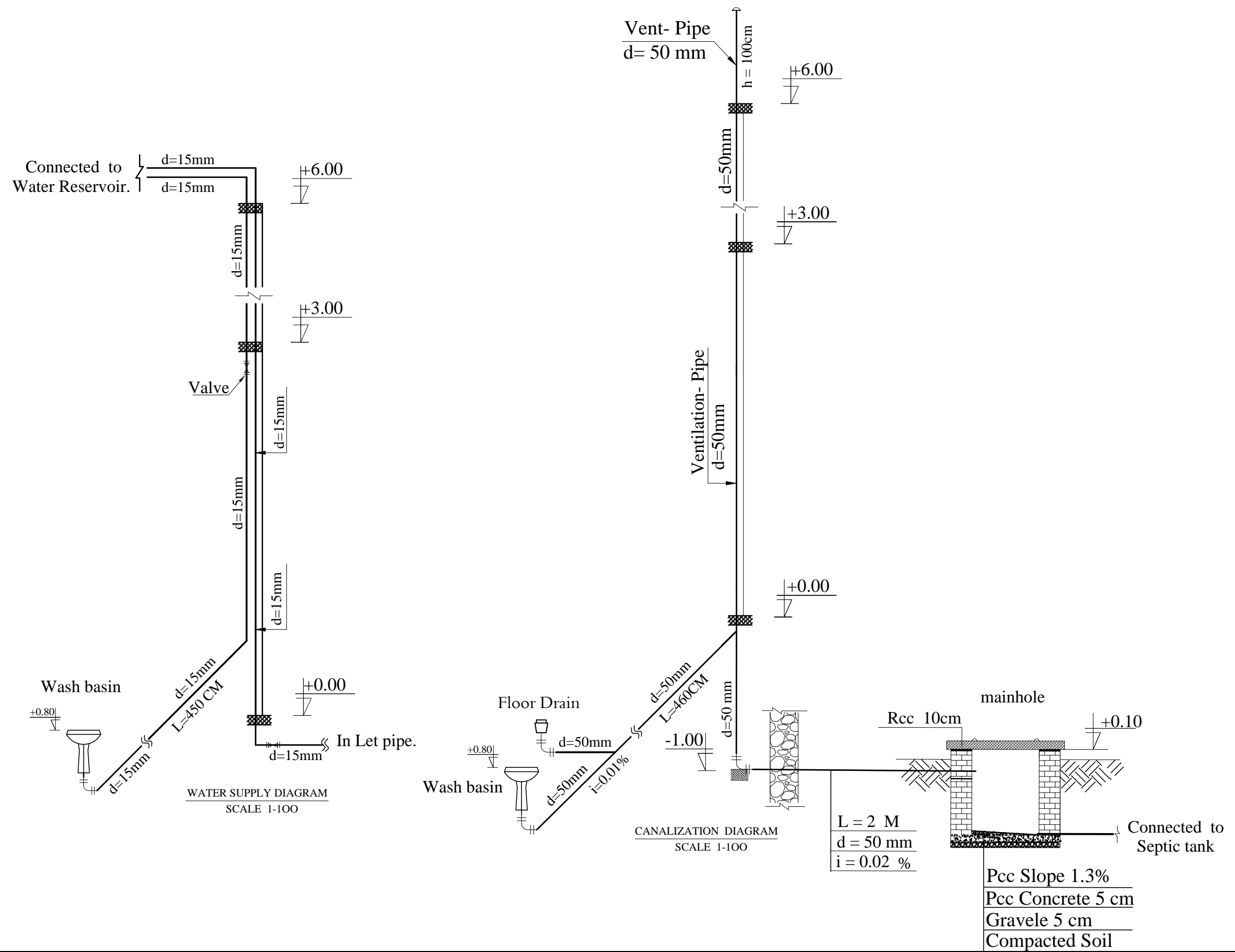


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DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

Water supply/Design.	Eng.Huma Sadat .	APPROVED: Doc/Moe	ENG.AB MOMEN RAD	DRAWING No	2 4	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHEEKED BY	Eng . Mohammad Rahim .	SCALE	AS SHOWN (A3)	SHEET No		DRAWING TITLE	Plan of Canalization.
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	15-12-2012				

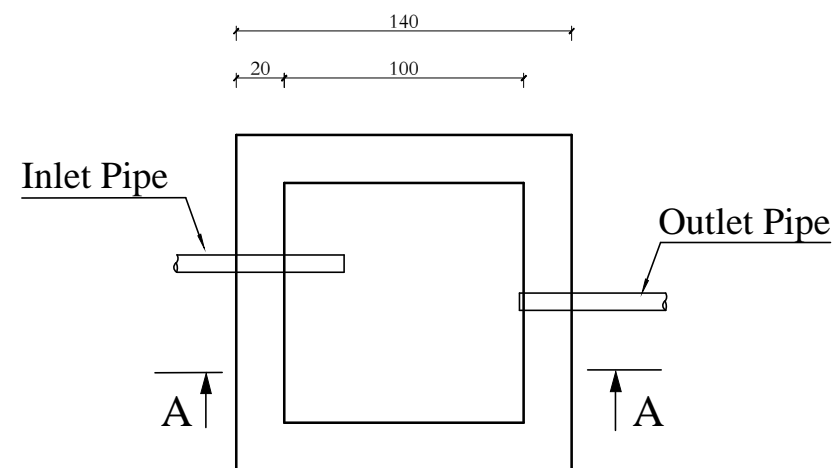


MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION

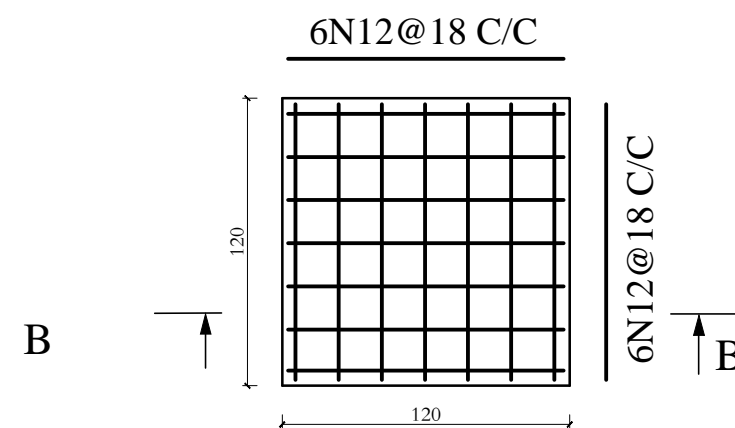


STANDARD SCHOOL DESIGN
IN AFGHANISTAN

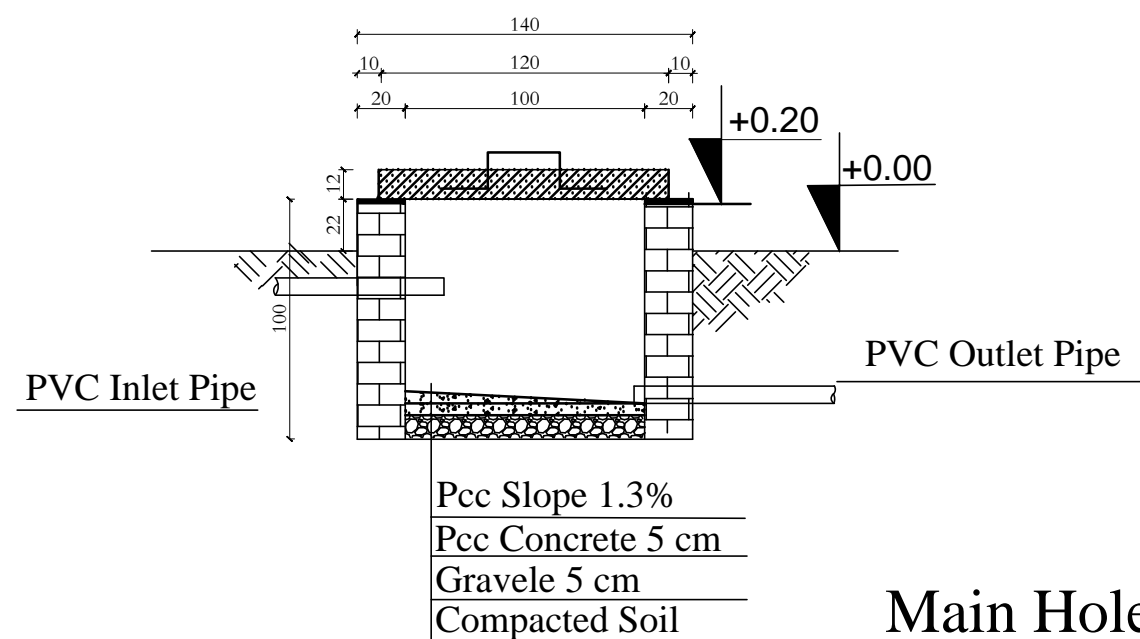
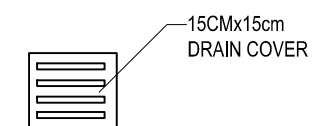
Water supply/Design.	Eng.Huma Sadat .	APPROVED: Doc/Moe	ENG.AB MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHEEKED BY	Eng . Mohammad Rahim.	SCALE	AS SHOWN (A3)	SHEET No	3	DRAWING TITLE	Diagram of water supply and canalization.
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	15-12-2012		4		



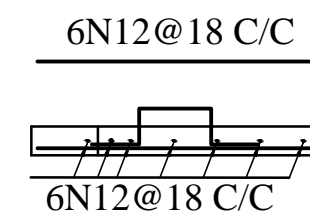
Plan Manhol
Scale 1:100



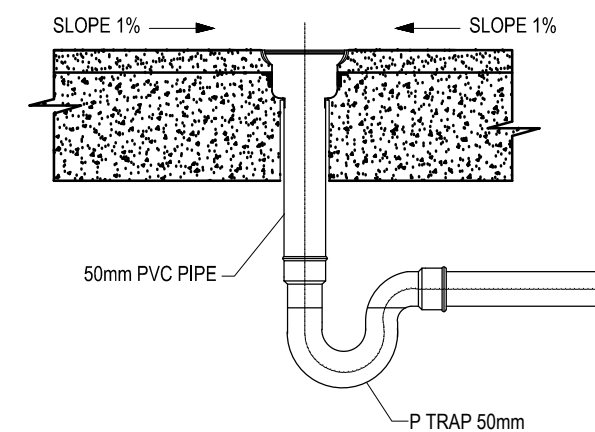
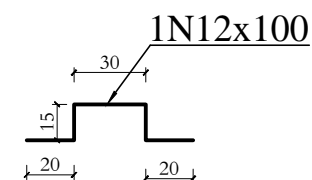
Reinforcement Slab



Main Hole detaile



Section B-B



TYPICAL FLOOR DRAIN DETAIL
SEC-N



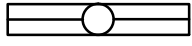

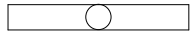





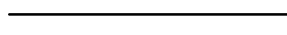


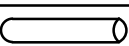


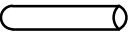




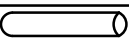


MINISTRY OF EDUCATION
DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN
IN AFGHANISTAN

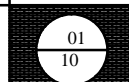
Water supply/Design.	Eng.Huma Sadat .	APPROVED: Doc/Moe	ENG.AB MOMEN RAD	DRAWING No		PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHEEKED BY	Eng . Mohammad Rahim.	SCALE	AS SHOWN (A3)	SHEET No	4	DRAWING TITLE	Main hole detaile.
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	15-12-2012				

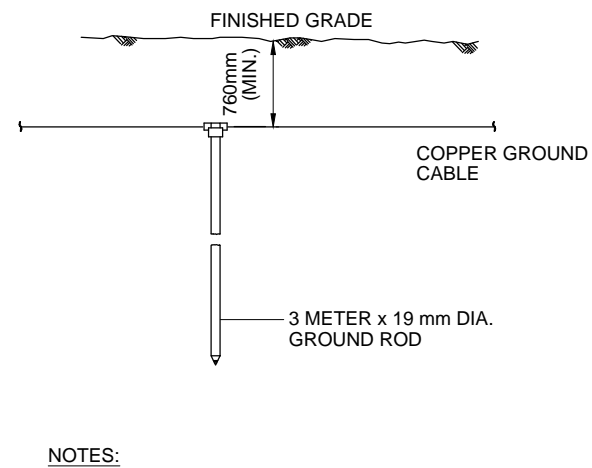
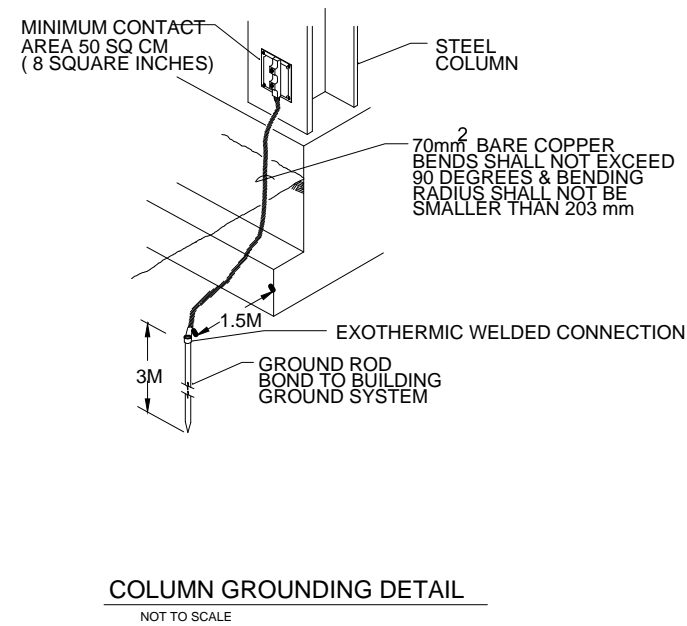
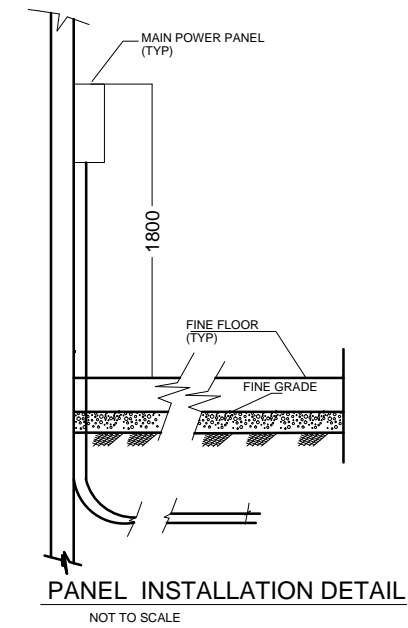
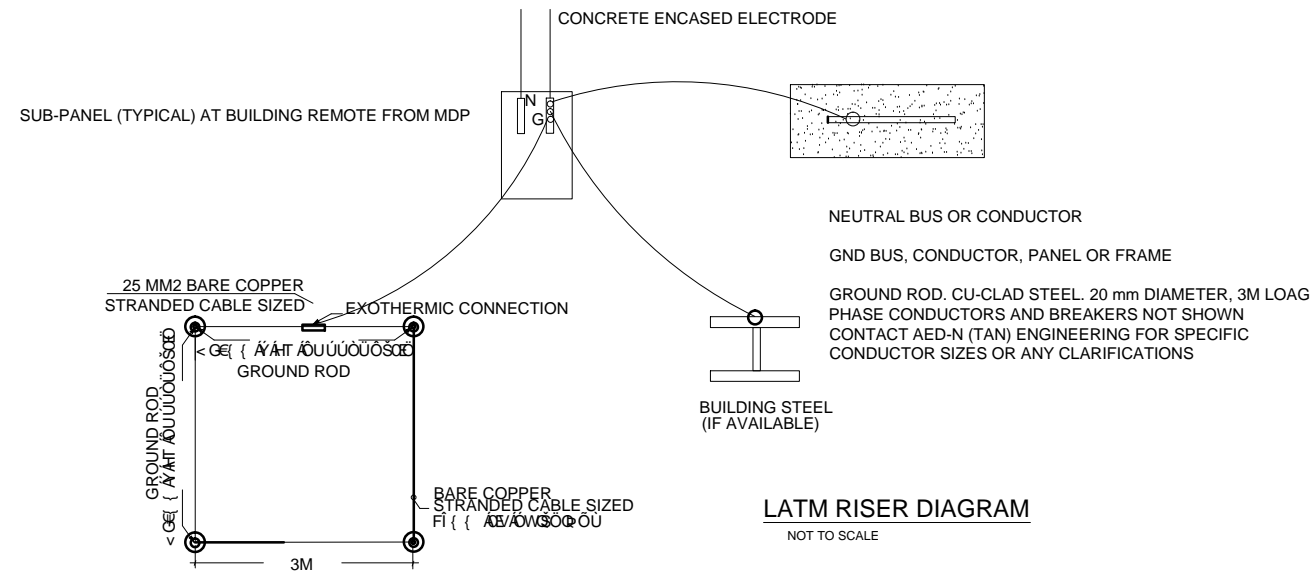
SPECIFICATION OF ELECTRICAL EQUIPMENT FOR TWO FLOOR

NO.	DESCRIPTION	SIGNS	UNIT	PIECES	REMARKS
1	FLUORESCENT LIGHT FIXTURE 2x36W, 50Hz, 220V		Nº	70	
2	CEILING MOUNTED FLUORESCENT 1x24W		Nº	6	
3	FLUORESCENT LIGHT FIXTURE 1x40W, 50Hz, 220V		Nº	31	
4	TWO POLE SWITCH UNDER PLASTER 10 AMP, 1PH		Nº	21	
5	TWO WAY SWITCHES		Nº	14	
6	SINGLE POLE SWITCH UNDER PLASTER, 10AMP, 1PH		Nº	8	
7	SOCKET OUTLET - SINGLE PHASE		Nº	67	
8	PANEL BOARD WITH 2X16AMP CB+RCBO, 10X20AMP CB+RCBO AND 1X40AMP MINE FUSE		Nº	2	All CB 16&20Amp+RCBO.
9	WIRE 1X2.5 mm for lighting.		M	1400	
10	WIRE 1X4mm ² for sockets.		M	1000	
11	WIRE 1(3x16)mm ² from mine panel to distribution panel.		M	14	
12	PVC CONDUIT 2 INCH FOR 1(3X16)MM ² WIRE.		M	14	
13	Cable 1x25 mm ² FOR GROUNDING		M	15	
14	CABLE 1x16mm ² FOR GROUNDING		M	12	
15	PVC CONDUIT 1 INCH		M	800	
16	PVC JOINT BOX		Nº	60	
17	GROUNDING ROD 3M LENGTH, Ø20MM		Nº	4	
18	MAIN DISTRIBUTION PANEL COMPLETE WITH 1X60 AMP MINE CB AND 3X35AMP FUSE.		M	1	
19	CABLE 1(2x25mm ²) FOR MINE LINE		M	50	If distance are more then 50m tack one size big.
20	PVC CONDUIT 3 INCH		M	50	
20	CHANGE OVER 3PHASE 40AMP GOOD QUALITY		Nº	1	
20	CHANGE OVER 1PHASE 40AMP GOOD QUALITY		Nº	1	

RCBO (Residual Circuit Breaker Over Current)

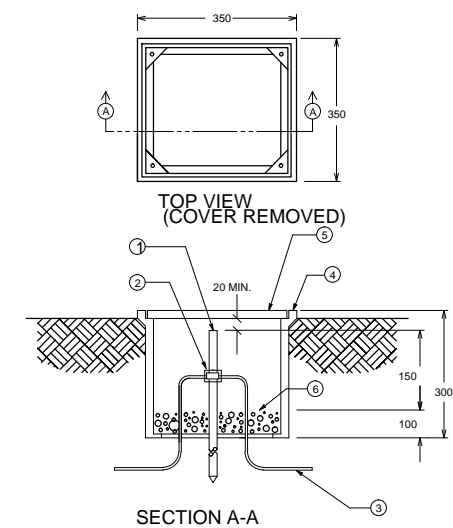


	MINISTRY OF EDUCATION DEPARTMENT OF CONTRACTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN	ELECTRICAL /DESIGN	ENG FEROUZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad	DRAWING TYPE	ELECTRICAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET		
				CHECKED BY	ENG M RAHIM	SCALE	A3	SHEET No					
				TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09						
DRAWING TITLE										LEGEND			



BELOW GRADE GROUNDING ROD DETAIL

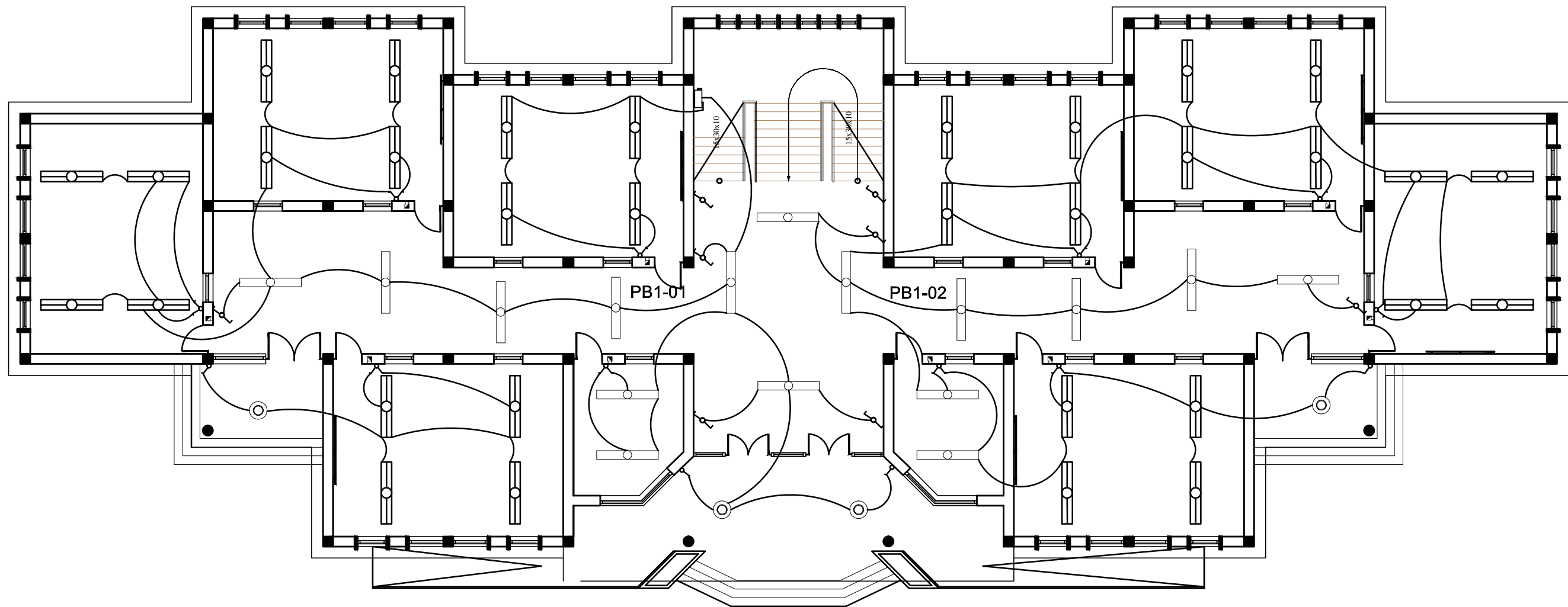
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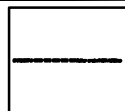
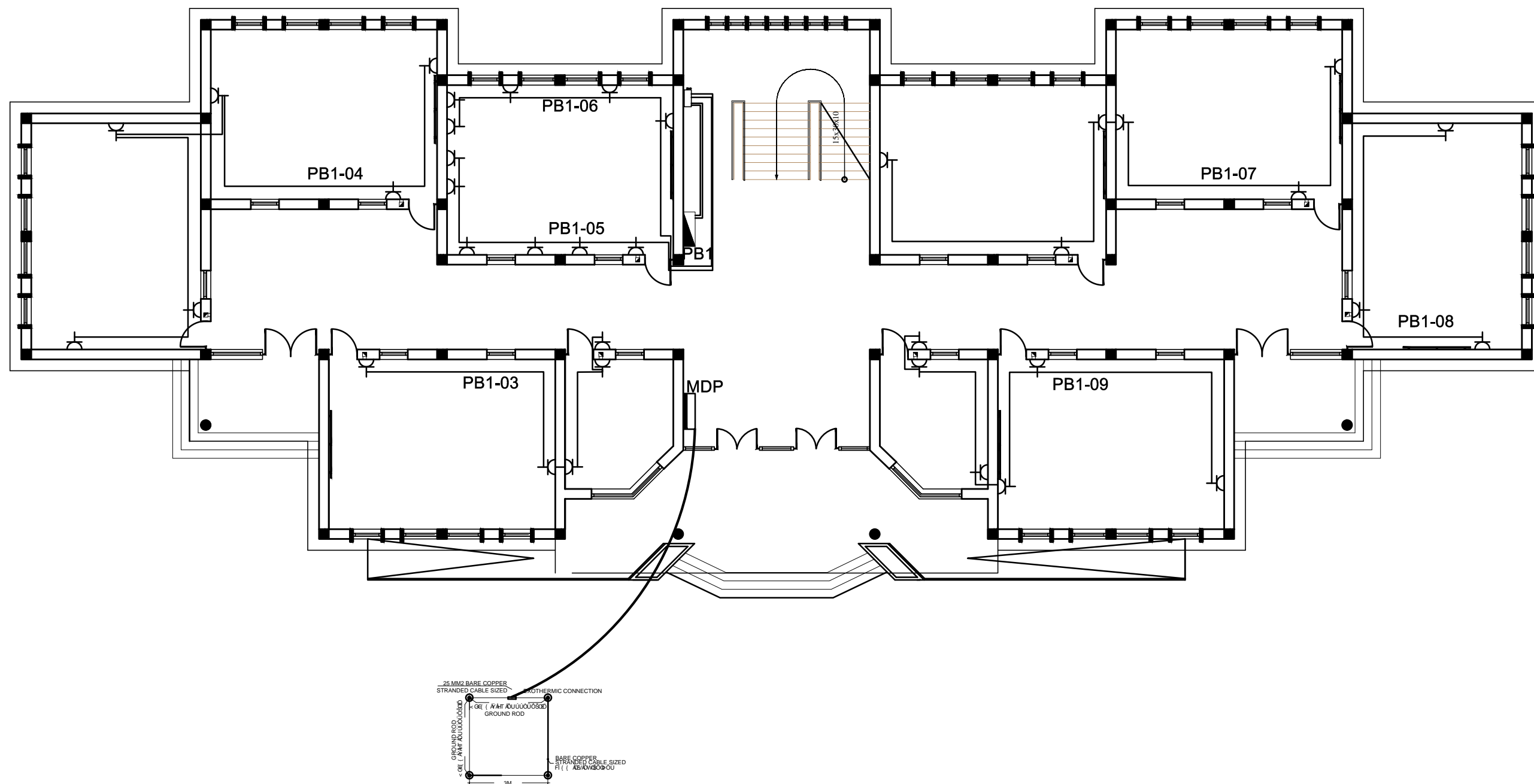
GROUND ROD ACCESS BOX INSTALLATION DETAIL

NOT TO SCALE

	MINISTRY OF EDUCATION DEPARTMENT OF CONTRACTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN	ELECTRICAL /DESIGN ENG FEROZ SADID CHECKED BY ENG M RAHIM TECH- APPROVED BY ENG.AB.MATIN MAQOL	APPROVED:Doc/Moe SCALE DATE	ENG.Ab.Mohmen Rad A3 2013-02-09	DRAWING TYPE SHEET No	ELECTRICAL 02 10	PROJECT NAME DRAWING TITLE	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET GROUNDING
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<div></div>	MINISTRY OF EDUCATION DEPARTMENT OF CONTRACTION	<div></div>	STANDARD SCHOOL DESIGN IN AFGHANISTAN	ELECTRICAL /DESIGN	ENG FEROZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad	DRAWING TYPE	ELECTRICAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
				CHECKED BY	ENG M RAHIM	SCALE	A3	SHEET No	<div>03 10</div>		
				TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09			DRAWING TITLE	GROUND FLOOR LIGHTING PLAN.



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

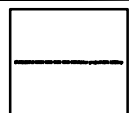
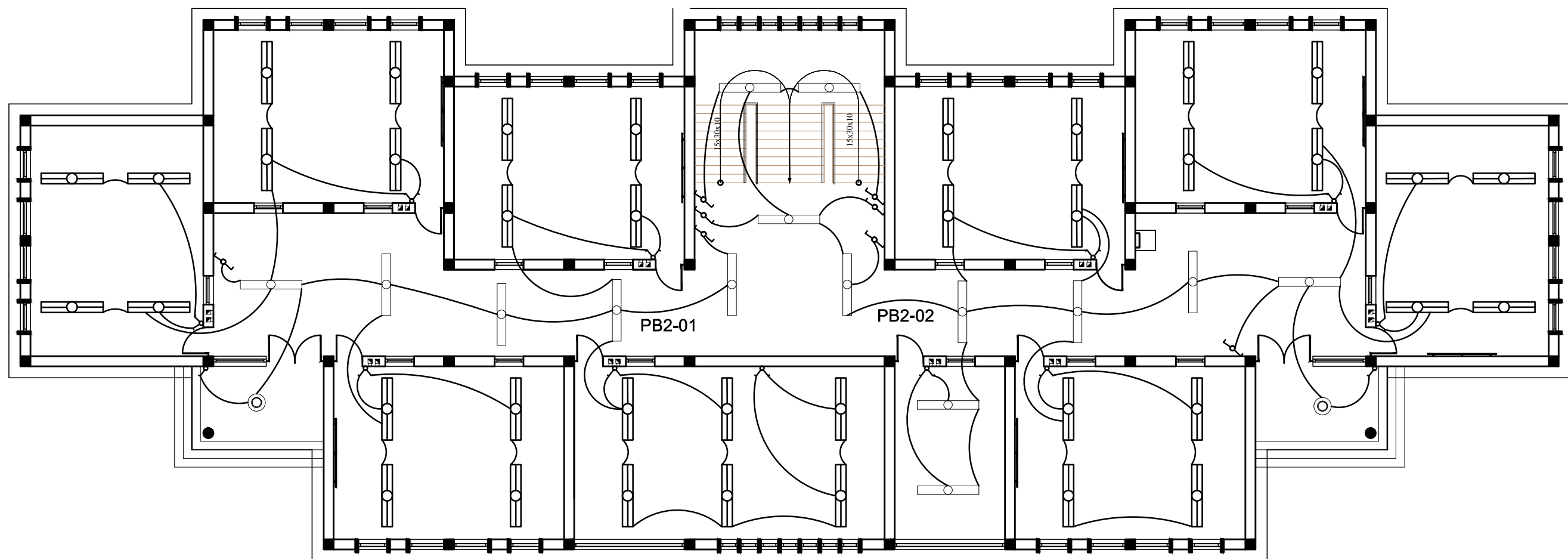
ELECTRICAL /DESIGN	ENG FEROUZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad	DRAWING TYPE	ELECTRICAL
CHECKED BY	ENG M RAHIM	SCALE	A3	SHEET No	04 10
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09		

PROJECT NAME

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

GROUND FLOOR POWER PLAN.



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

ELECTRICAL /DESIGN	ENG FEROZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad	DRAWING TYPE
CHECKED BY	ENG M RAHIM	SCALE	A3	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09	

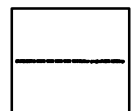
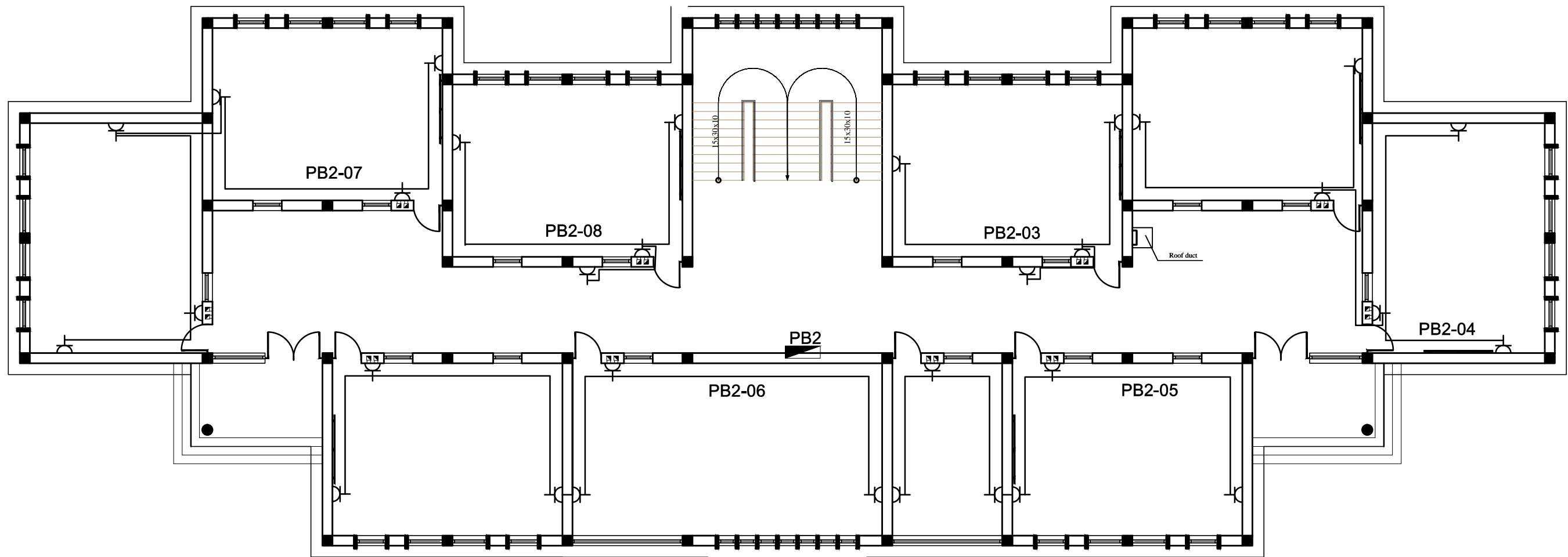
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PROJECT NAME

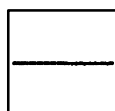
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

FIRST FLOOR LIGHTING PLAN.



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

ELECTRICAL /DESIGN	ENG FEROZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad	DRAWING TYPE
CHECKED BY	ENG M RAHIM	SCALE	A3	SHEET No
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09	

ELECTRICAL
06 10

PROJECT NAME

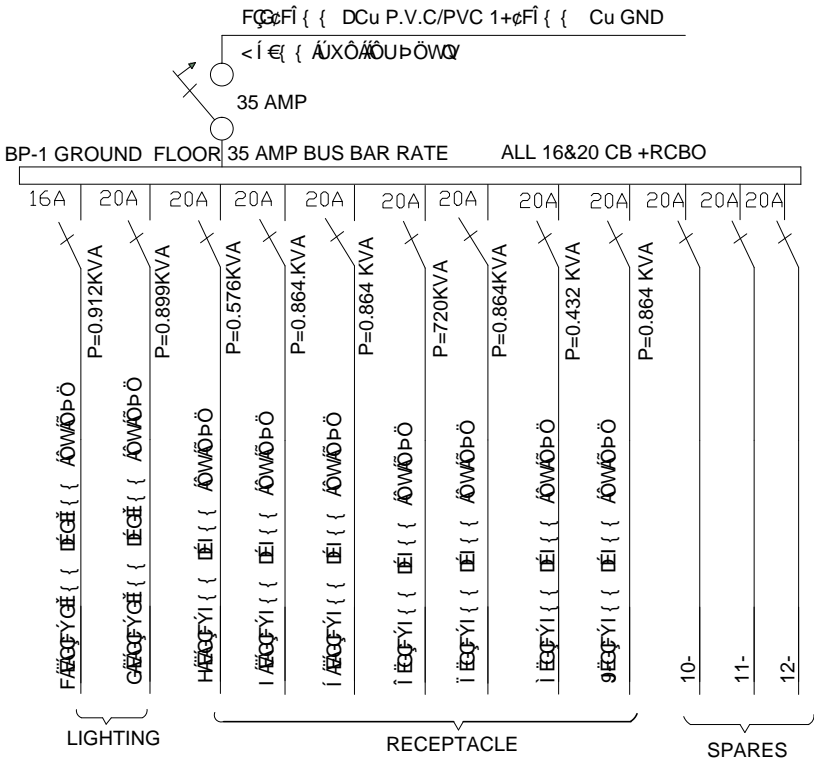
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

FIRST FLOOR POWER PLAN.

PANEL SCHEDULE AND SINGLE LINE DIAGRAM

PANEL BOARD NAME : PB135 AMP BUS BAR RATEMAIN BREAKER :35 A															
PANEL LOCATION: GROUND FLOOR PANEL 220 VOLT , 1 PHASE , 3 WIRE , 50HZ 30KA ISC / 0.5 SEC RECESSED MOUNTED NEMA 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	912			16	1	2	16	898.5			LIGHTING	2.5mm ²	2(1X2.5mm ²)Ø20mm
2(1X2.5mm ²)Ø20mm	4mm ²	RECEPTACLE		576.0		20	3	4	20		864.0		RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE			864.0	20	5	6	20			720.0	RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE	864.0			20	7	8	20	432.0			RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE		864.0		20	9	10	20		0.0		SPARE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	SPARE			0.0	20	11	12	20			0.0		4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²		0.0			20	13	14	20	0.0				4mm ²	2(1X4mm ²)Ø20mm
						20	15	16	20						
SUB - TOTAL IN (VA)			1776.0	1440	864.0	-	-	-	-	1330.5	864.0	720.0	SUB - TOTAL IN (VA)		
TOTAL PHASE (A) =			3106.5	14.1											
TOTAL PHASE (A) =			2304.0	10.5											
TOTAL PHASE (A) =			1584.0	7.2											
TOTAL CONNECTED LOAD			6994.5	10.6											
DEMAND FACTOR			0.7												
DEMAND LOAD			4896.2												
25% FUTURE LOAD			1224.0												
TOTAL LOAD			6120.2												
TOTAL AMPERE			27.8												
BREAKER SIZE			34.8												



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

ELECTRICAL /DESIGN
CHECKED BY
TECH- APPROVED BY

ENG FEROZ SADID
ENG M RAHIM
ENG.AB.MATIN MAQOL

APPROVED:Doc/Moe
SCALE
DATE

ENG.Ab.Mohmen Rad
A3
2013-02-09

DRAWING TYPE
SHEET No

ELECTRICAL
07
10

PROJECT NAME

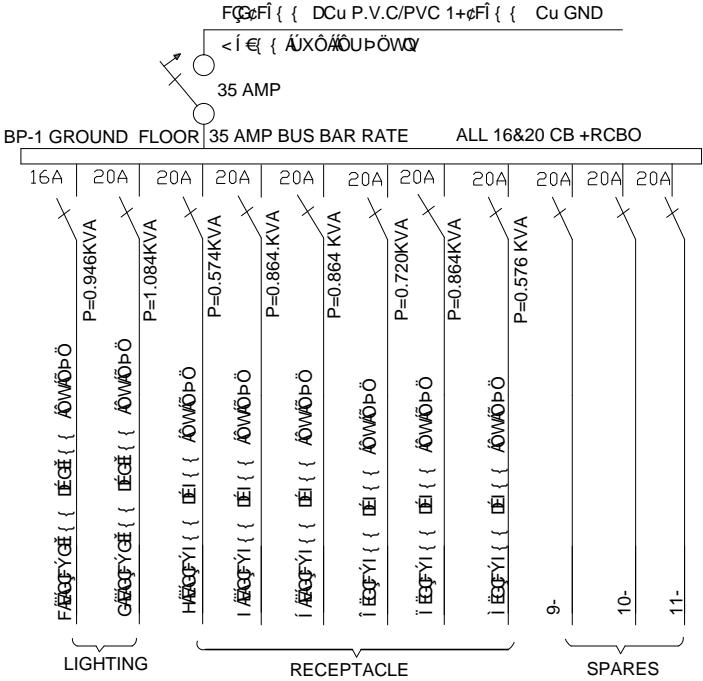
12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET

DRAWING TITLE

GROUND FLOOR PANEL SCHDULE .

PANEL SCHEDULE AND SINGLE LINE DIAGRAM

PANEL BOARD NAME : PB235 AMP BUS BAR RATEMAIN 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	946			16	1	2	16	1084.8			LIGHTING	2.5mm ²	2(1X2.5mm ²)Ø20mm
2(1X2.5mm ²)Ø20mm	4mm ²	RECEPTACLE		576.0		20	3	4	20		864.0		RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE			864.0	20	5	6	20			720.0	RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	RECEPTACLE	864.0			20	7	8	20	576.0			RECEPTACLE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²	SPARE		0.0		20	9	10	20				SPARE	4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²				0.0	20	11	12	20			0.0		4mm ²	2(1X4mm ²)Ø20mm
2(1X4mm ²)Ø20mm	4mm ²		0.0			20	13	14	20	0.0				4mm ²	2(1X4mm ²)Ø20mm
						20	15	16	20						
SUB - TOTAL IN (VA)			1809.5	576.0	864.0	-	-	-	-	1660.8	864.0	720.0	SUB - TOTAL IN (VA)		
TOTAL PHASE (A) =			3470.3	15.8											
TOTAL PHASE (A) =			1440.0	6.5											
TOTAL PHASE (A) =			1584.0	7.2											
TOTAL CONNECTED LOAD			6494.3	9.9											
DEMAND FACTOR			0.7												
DEMAND LOAD			4546.0												
25% FUTURE LOAD			1136.5												
TOTAL LOAD			5682.5												
TOTAL AMPERE			25.8												
BREAKER SIZE			32.3												



MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

ELECTRICAL /DESIGN
CHECKED BY
TECH- APPROVED BY

ENG FEROZ SADID
ENG M RAHIM
ENG.AB.MATIN MAQOL

APPROVED:Doc/Moe
SCALE
DATE

ENG.Ab.Mohmen Rad
A3
2013-02-09

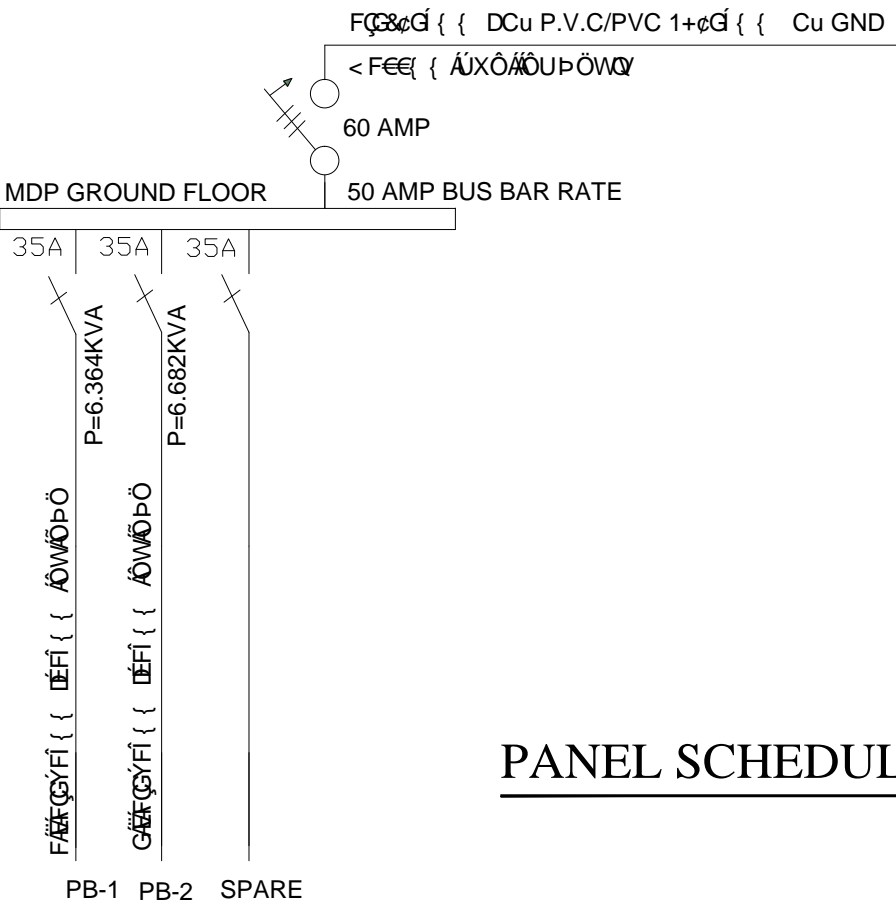
DRAWING TYPE
SHEET No

ELECTRICAL
08
10

PROJECT NAME
DRAWING TITLE

12 CLASSROOM SCHOOL WITH COMPUTER AND
LABRATORY CLASS RCC.IRON SHEET
FIRST FLOOR PANEL SCHEDULE .

PANEL BOARD NAME : MDP																80 AMP BUS BAR RATE								MAIN BREAKER :80 A																											
PANEL LOCATION: 1ST FLOOR																PANEL 220 VOLT								3 PHASE				, 5 WIRE				, 50HZ				30KA				ISC / 0.5 SEC				RECESSED MOUNTED							
NEMA ENCLOSURE																																																			
WIRE ,CONDUIT AND DESCRIPTION						SINGLE PHASE						TRIP & CIRCUIT						SINGLE PHASE						WIRE ,CONDUIT AND DESCRIPTION																											
WIRE AND CONDUIT			GND WIRE		DESCRIPTION					B (VA)		A (VA)		AMP		CKT		CKT		AMP		C (VA)						DESCRIPTION			GND WIRE		WIRE AND CONDUIT																		
1(2X16mm ²)Ø25mm			16mm ²		PB-1			0		0		6364		40		1		2		40		6682						PB-2			16mm ²		1(2X16mm ²)Ø25mm																		
					SPARE									40		3		4		40				0		0																									
SUB - TOTAL IN < VA >								0.0		0.0		6364.0		-		-		-		-		6682.0		0.0		0.0		SUB - TOTAL IN < VA >																							
TOTAL PHASE (A) =						6682.0		30.4																																											
TOTAL PHASE (A) =						0.0		0.0																																											
TOTAL PHASE (A) =						6364.0		28.9																																											
TOTAL CONNECTED LOAD						13046.0		59.3																																											
DEMAND FACTOR						0.6																																													
DEMAND LOAD						6653.5																																													
25% FUTURE LOAD						1663.4																																													
TOTAL LOAD						8316.8																																													
TOTAL AMPERE						37.8																																													
BREAKER SIZE						47.3																																													



PANEL SCHEDULE AND RISER DIAGRAM



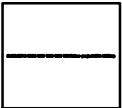
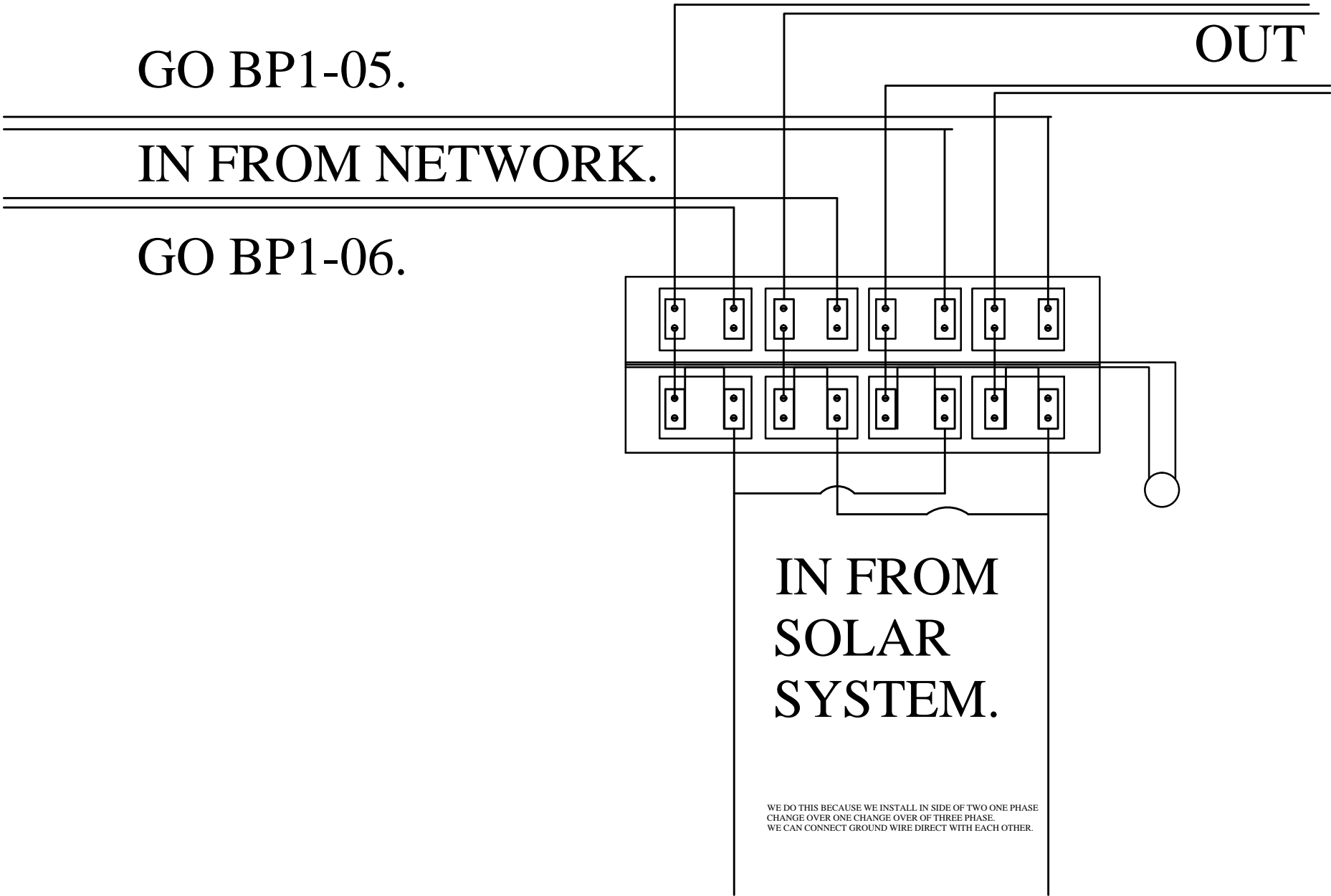
MINISTRY OF EDUCATION
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

ELECTRICAL /DESIGN	ENG FEROZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad	DRAWING TYPE	ELECTRICAL	PROJECT NAME	12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
CHECKED BY	ENG M RAHIM	SCALE	A3	SHEET No	09 10	DRAWING TITLE	MINE DISTRIBUTION PANE PLAN.
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09				

INSTALL IN SIDE OF TWO ONE PHASE
CHANG OVER ONE THREE PHASE
CHANG OVER.



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STANDARD SCHOOL
DESIGN
IN AFGHANISTAN

ELECTRICAL /DESIGN	ENG FEROZ SADID	APPROVED:Doc/Moe	ENG.Ab.Mohmen Rad
CHECKED BY	ENG M RAHIM	SCALE	A3
TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	2013-02-09

DRAWING TYPE
SHEET No

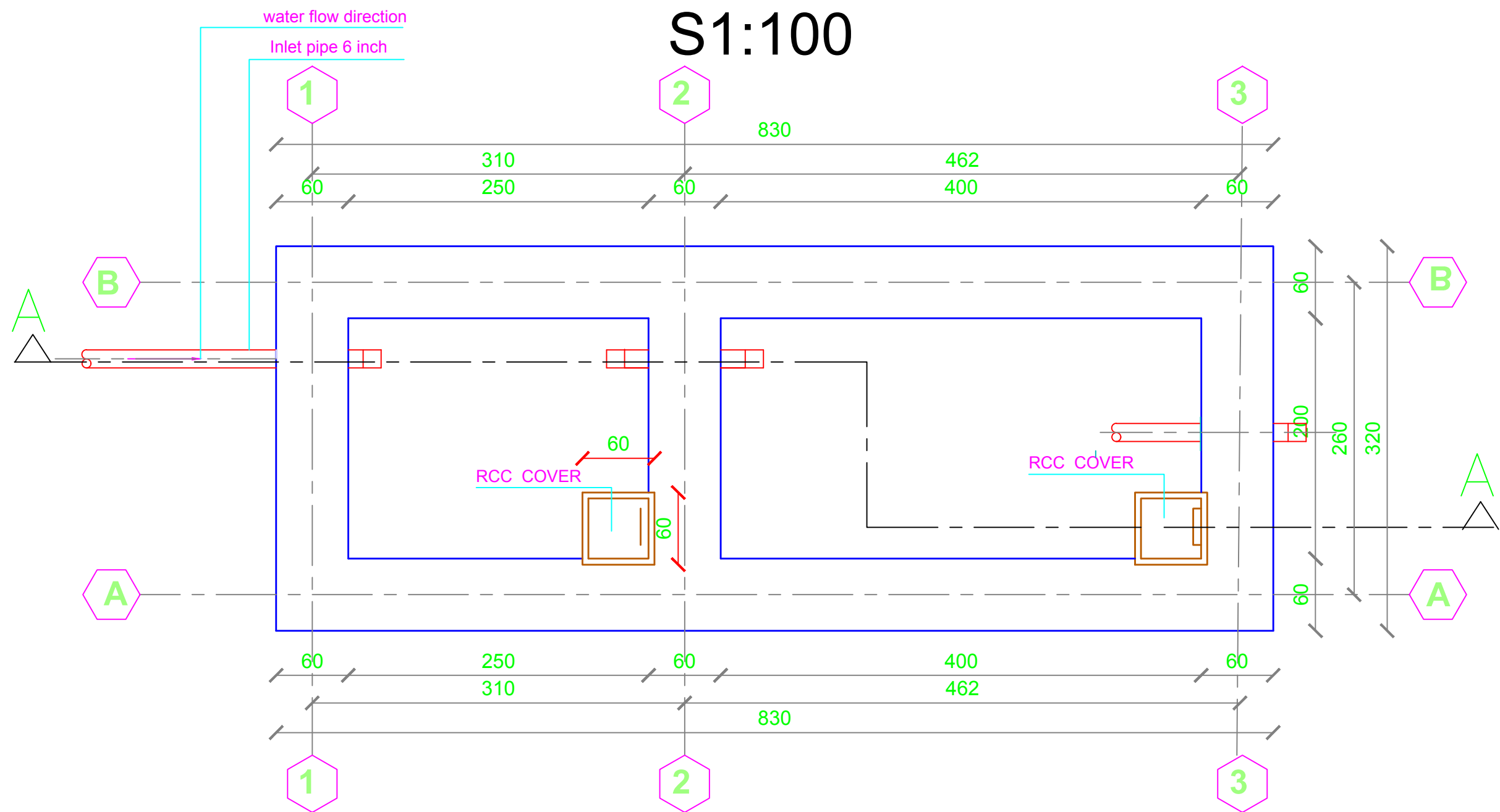
ELECTRICAL
10 10


PROJECT NAME
DRAWING TITLE

12 CLASSROOM SCHOOL WITH COMPUTER AND LABRATORY CLASS RCC.IRON SHEET
DETAIL OF CHANG OVER INSTALLATION.

PLAN OF SEPTIC TANK

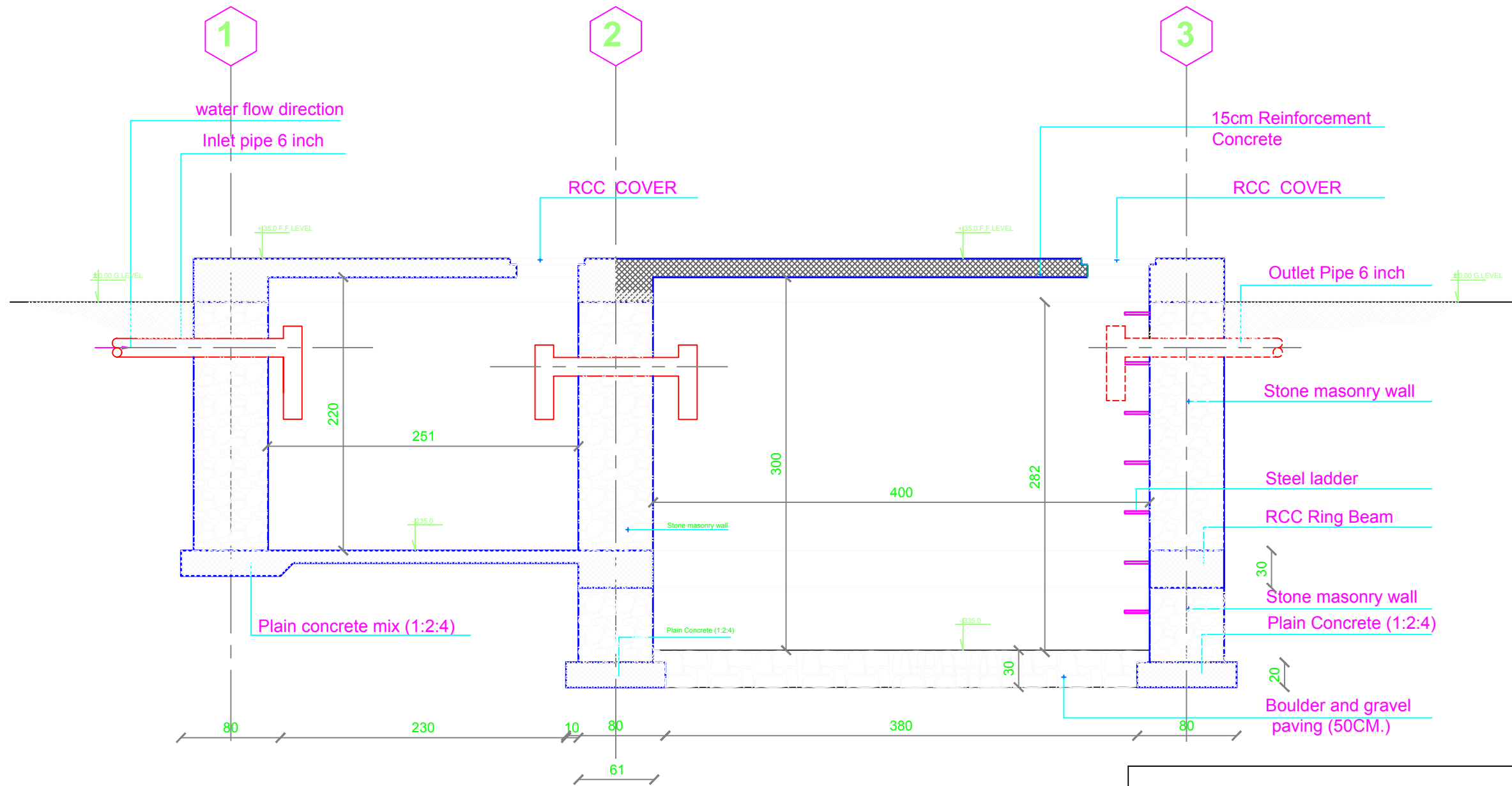
S1:100




 UNHCR The UN Refugee Agency		Afghanistan		HELMAND SCHOOL- PROJECT		
Project Code		HLD-000-000				
Project Title		New Construction of Septic Tank				
Drawing Title		Plan				
Project Location		Helmand School-Project				
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.				00 of 00
Sign						Scales:
Date						1:100

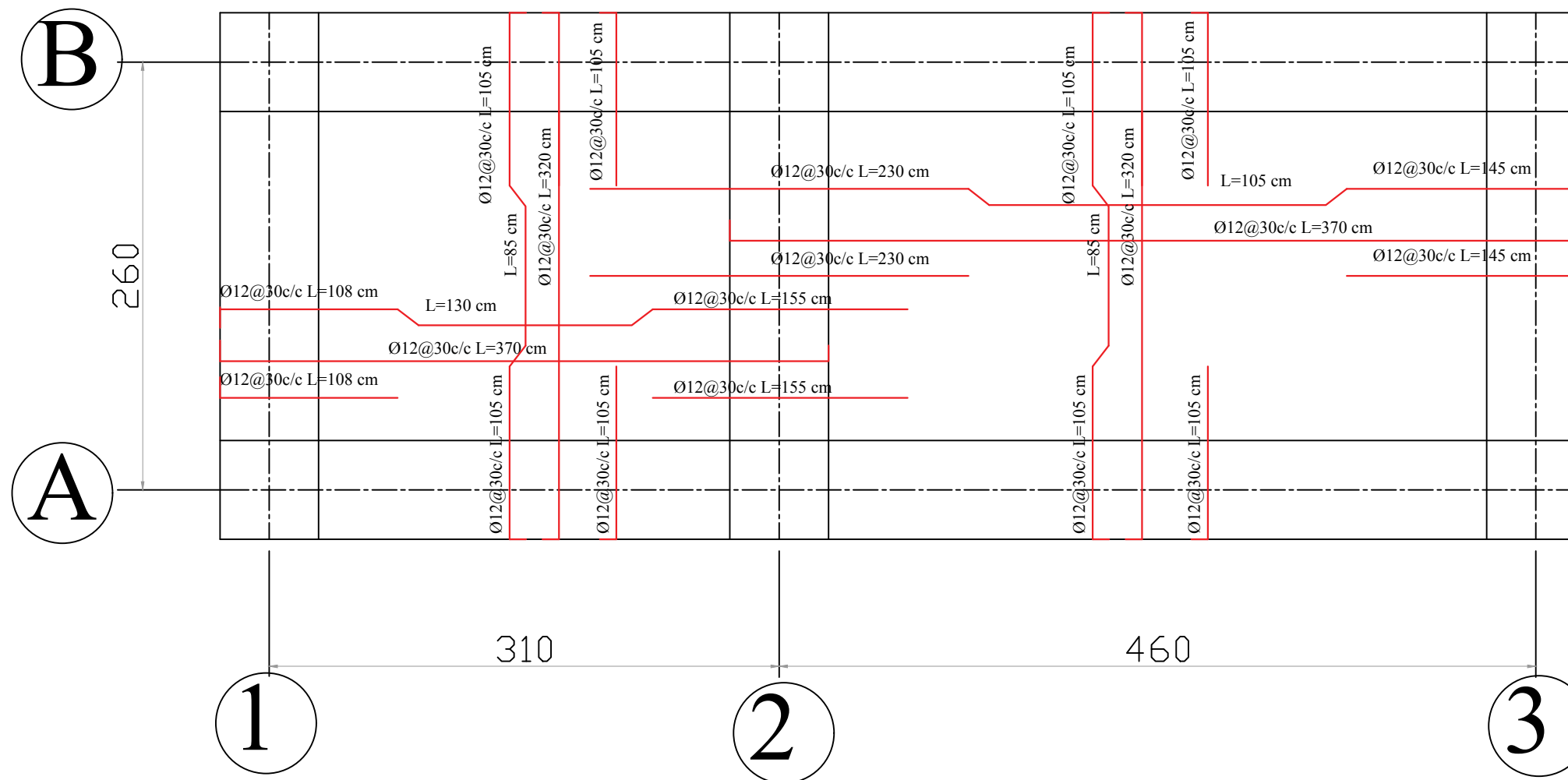
SEPTIC TANK SECTION A-A


S1:100



 UNHCR Afghanistan						HELMAND SCHOOL- PROJECT	
Project Code		HLD-000-000					
Project Title		New Construction of Septic Tank					
Drawing Title		Plan					
Project Location		Helmand City School-Project					
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:		
Name	Eng.Amir M.	Eng.Amir M.			00 of 00		
Sign					Scales:		
Date					1:100		

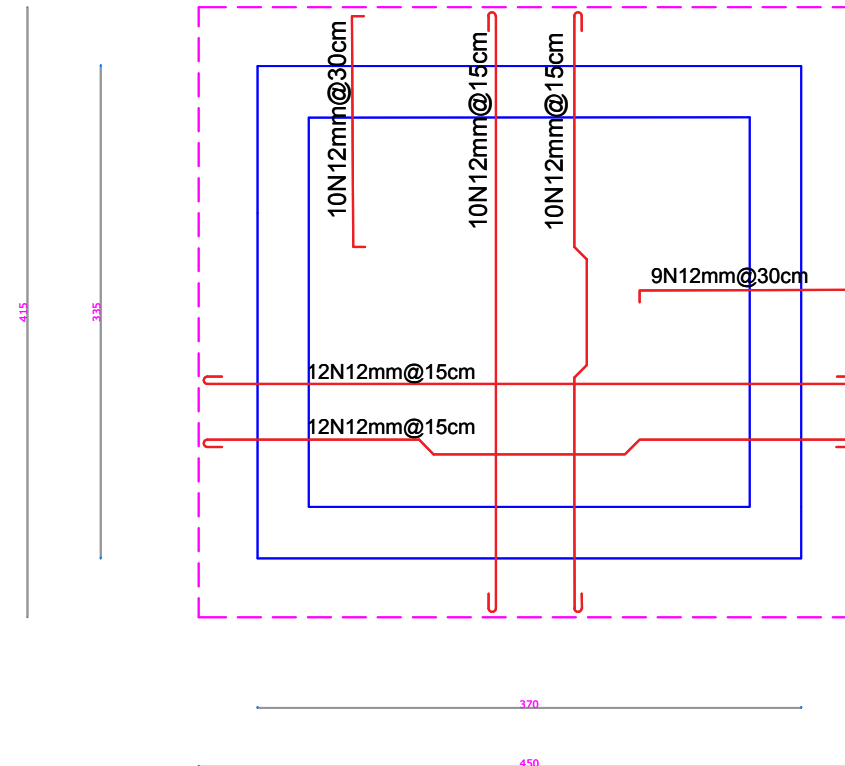
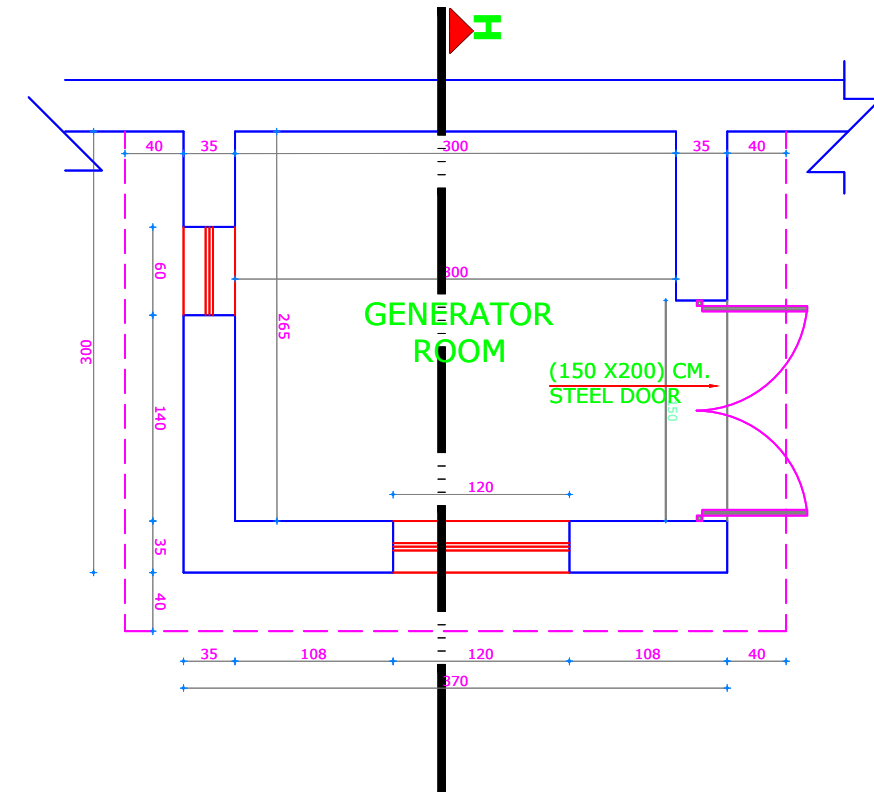
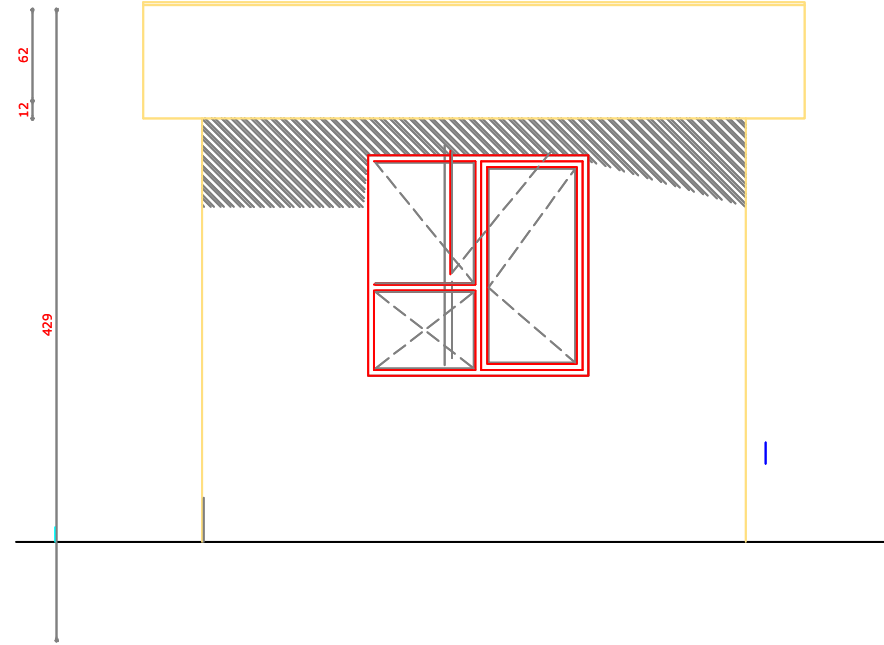
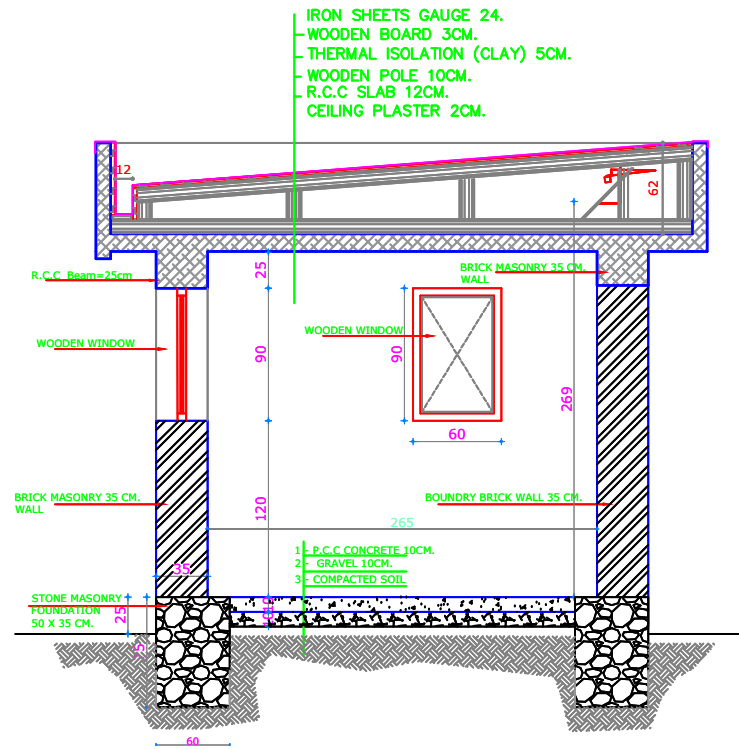
Bar Bending Schedule Of Septic Tank Slab



 UNHCR The UN Refugee Agency		Afghanistan		HELMAND SCHOOL- PROJECT							
Project Code		HLD-000-000									
Project Title		New Construction of Septic Tank									
Drawing Title		Plan									
Project Location		Helmand City School-Project									
Drawn By:		Designed By:		Checked By:		Reveiw By:		Approved By:		Sheet No:	
Name		Eng.Amir M.		Eng.Amir M.						00 of 00	
Sign										Scales:	
										1:100	


Plan & section of Generator Room

SI:100



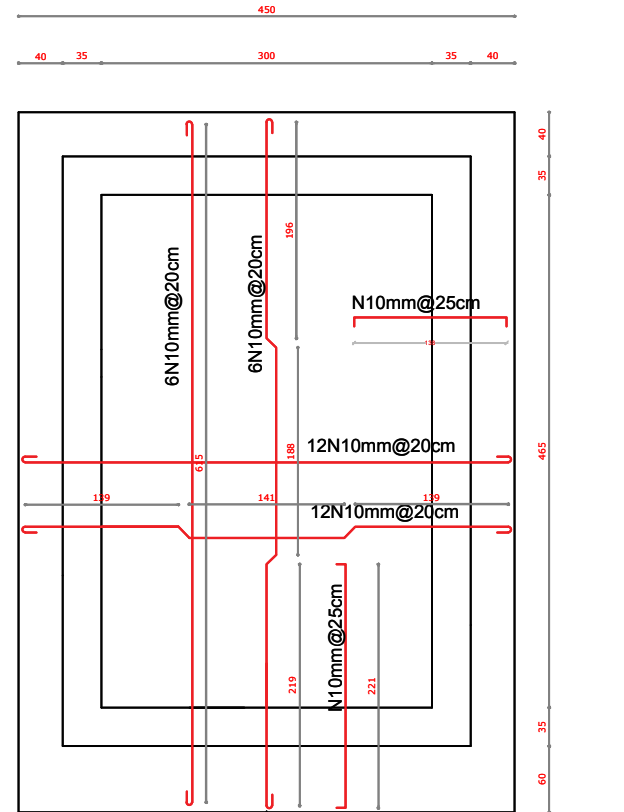
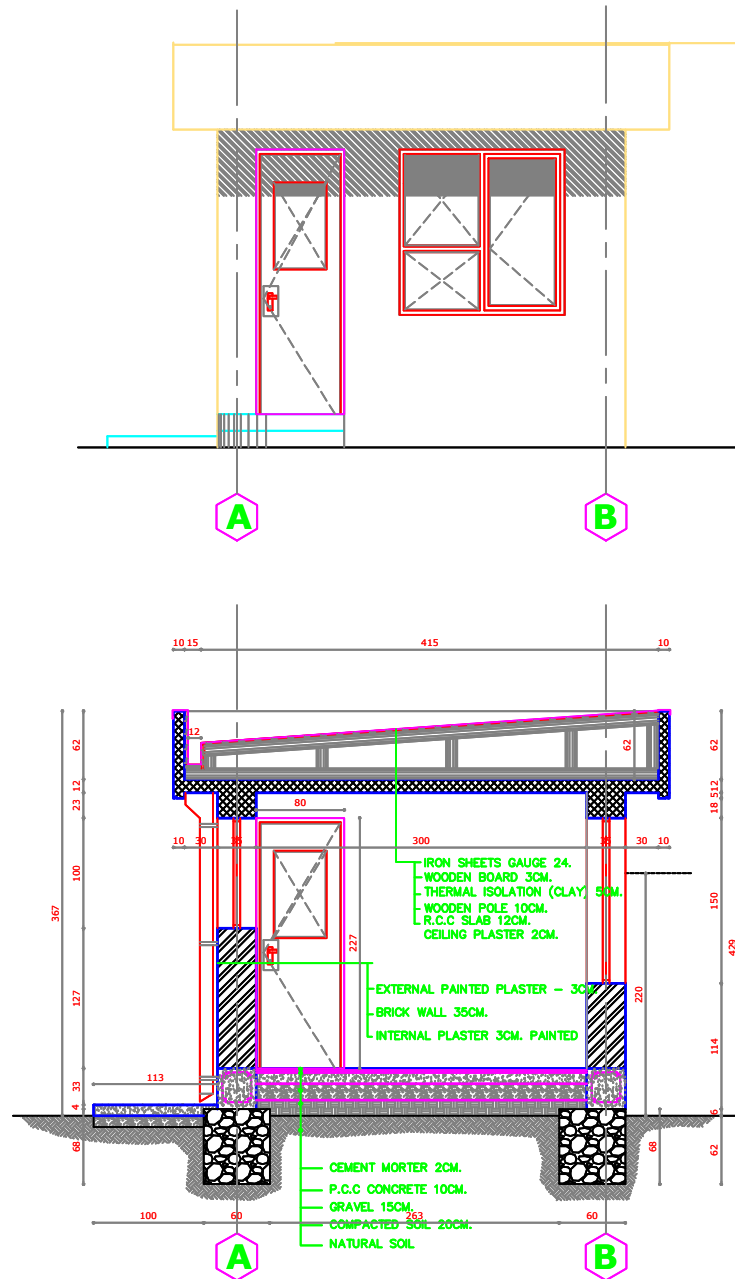
Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) $R_a = 2100 \text{ Kg/cm}^2$.
- 8-The curing must be not less than (28) days.

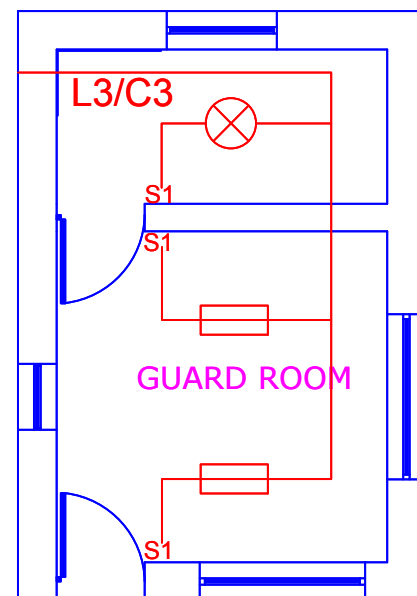
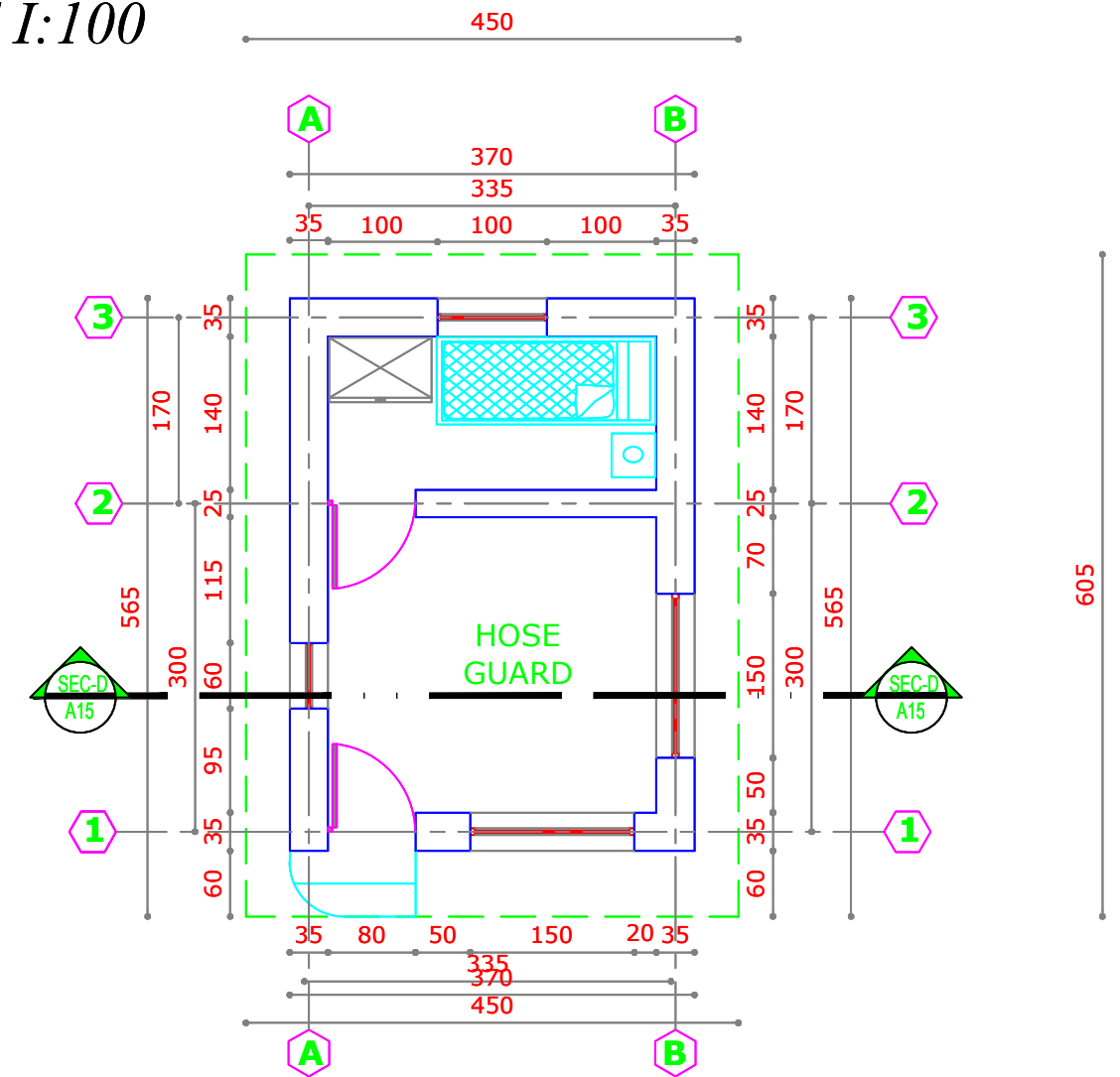
 UNHCR Afghanistan The UN Refugee Agency					
HELMAND SCHOOL PROJECT					
Project Code	HLD - 000 - 000				
Project Title	New Construction of Generator Room				
Drawing Title	Plan ,Section Front Preview				
Project Location	Helmand City				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100

Plan & section of Gourd Room

S I:100




HOSE GURD

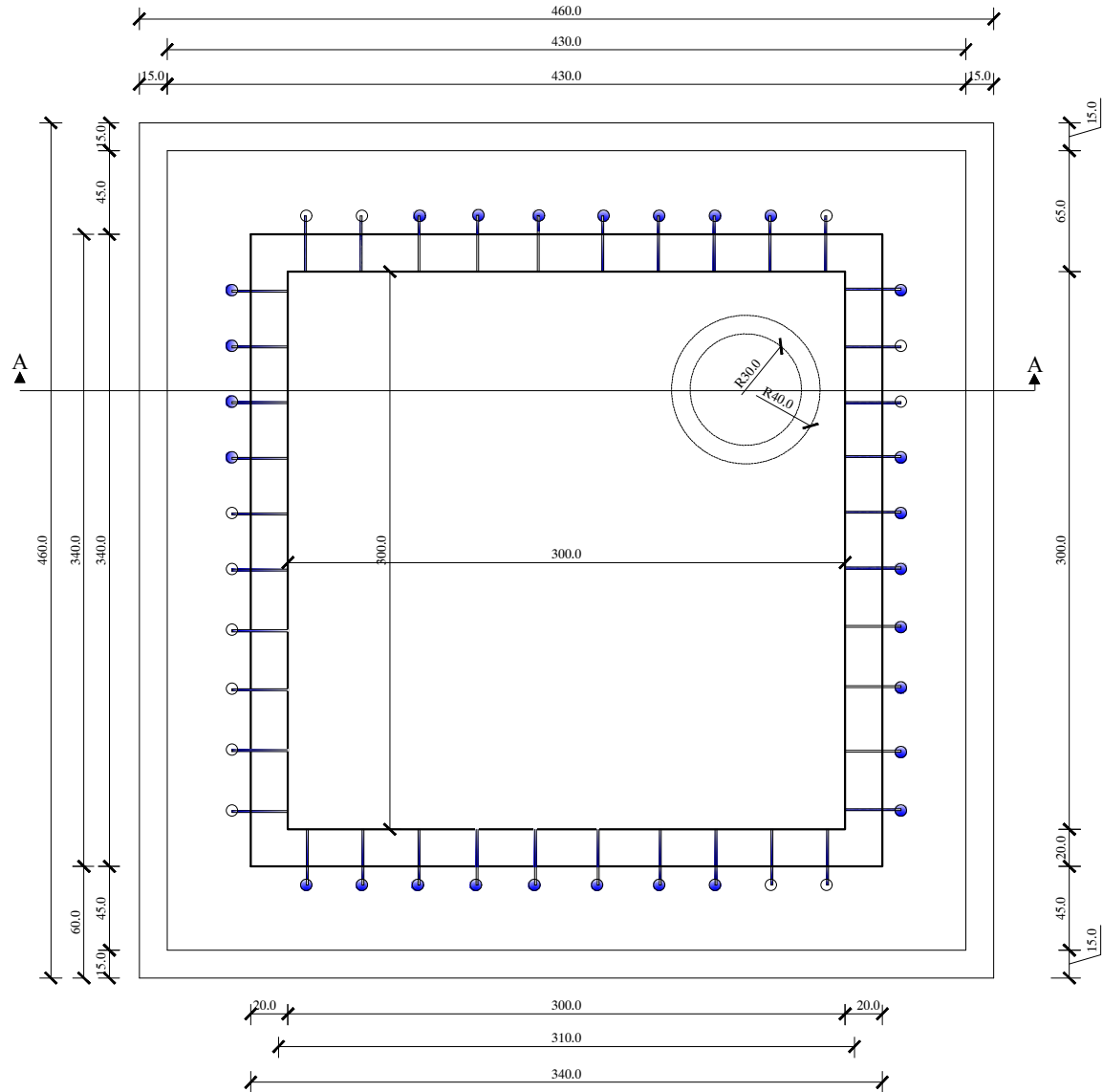


Note:

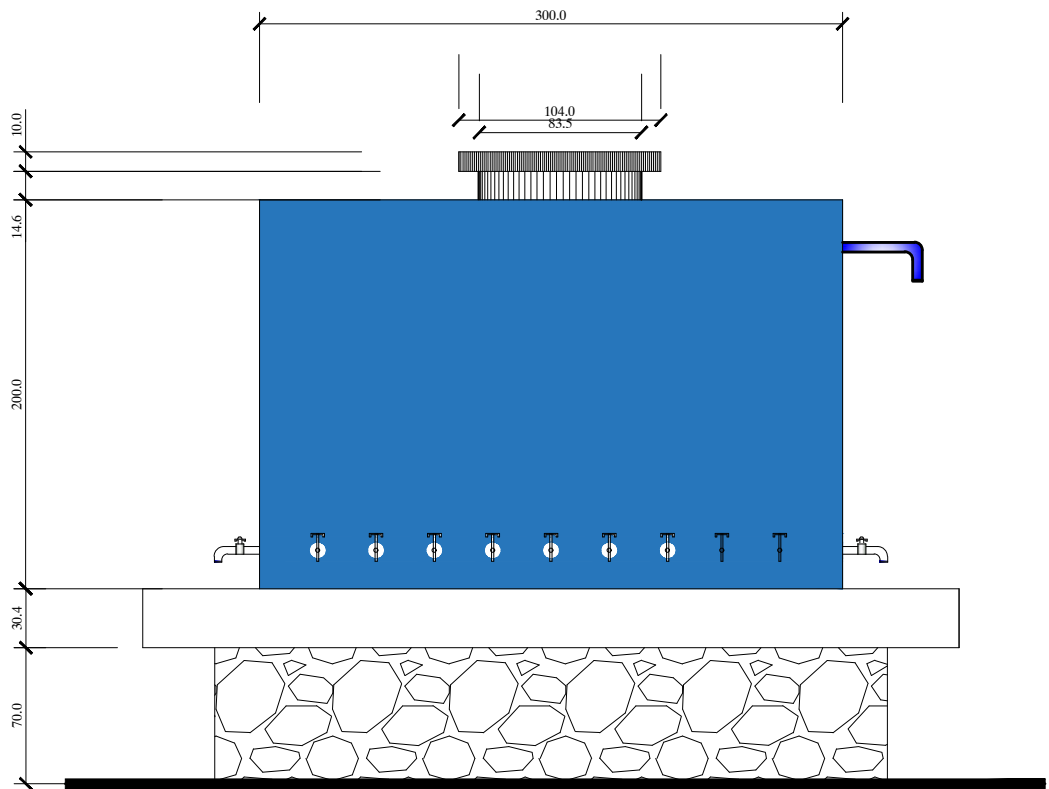
- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) $R_a = 2100 \text{ Kg/cm}^2$.
- 8-The curing must be not less than (28) days.

 UNHCR Afghanistan HELMAND SCHOOL PROJECT					
Project Code	HLD - 000 - 000				
Project Title	New Construction of Guard Room				
Drawing Title	Plan ,Section Front Preview				
Project Location	Helmand City				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100

Plan of Water Reservoir
S 1:100




Elevation of Reservoir
S 1:100

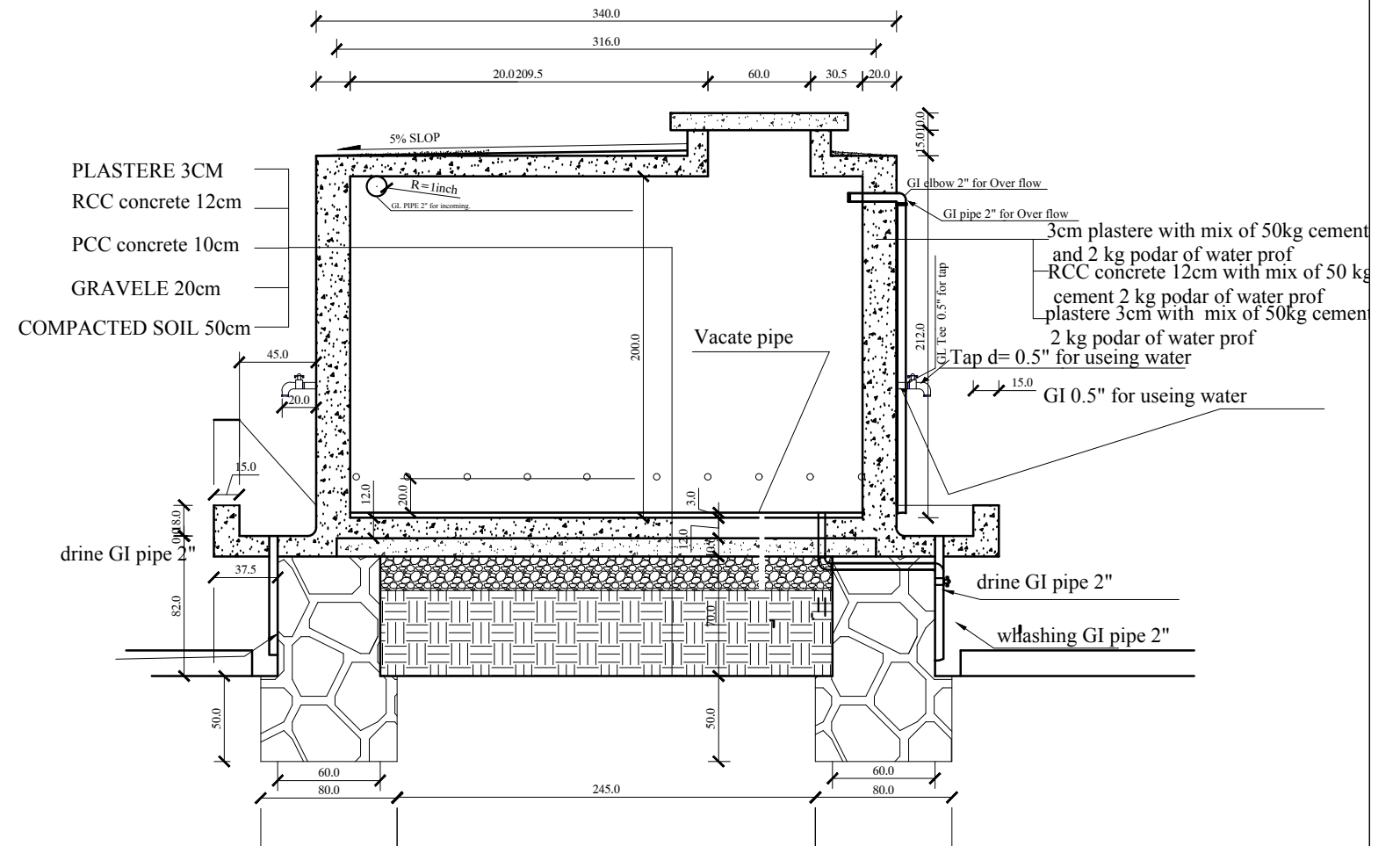


NOTE:


- 1-All dimensions are in cm
- 2-Foundation has been checked in bearing capacity of soil 1.5kg/cm,if the bearing capacity of soil is less than 1.5kg/cm the site Engineer should contact with design Engineer.
- 3-R.C.C mark should be 250 and P.C.C should be 150.
- 4-Sand and gravel should be clean of dust.
- 5-Concrete should be vibrated and watered.
- 6-Before concrete the shuttering plan and reinforcement plan must be checked by design engineer.
- 7-The steel bar is class A-II($R_a=2700\text{kg/cm}^2$) (for stirrups and secndary reinforcement class A-I will also be used).
- 9-During the concrete working a cubic sample should be taken.
- 8-Cement mortar which use for walls and stone mason.
- 9-The mark of brick should be 70 kg/cm the ratio are 1:4

 UNHCR <small>The UN Refugee Agency</small>				HELMAND SCHOOL PROJECT			
Project Code		HLD-000-000					
Project Title		New Construction of Hand Washing Station					
Drawing Title		Plan & front preview					
Project Location		Helmand Province					
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:	
Name	Eng.Amir M.	Eng.Amir M.				00 of 00	
Sign						Scales:	
Date						1:100	

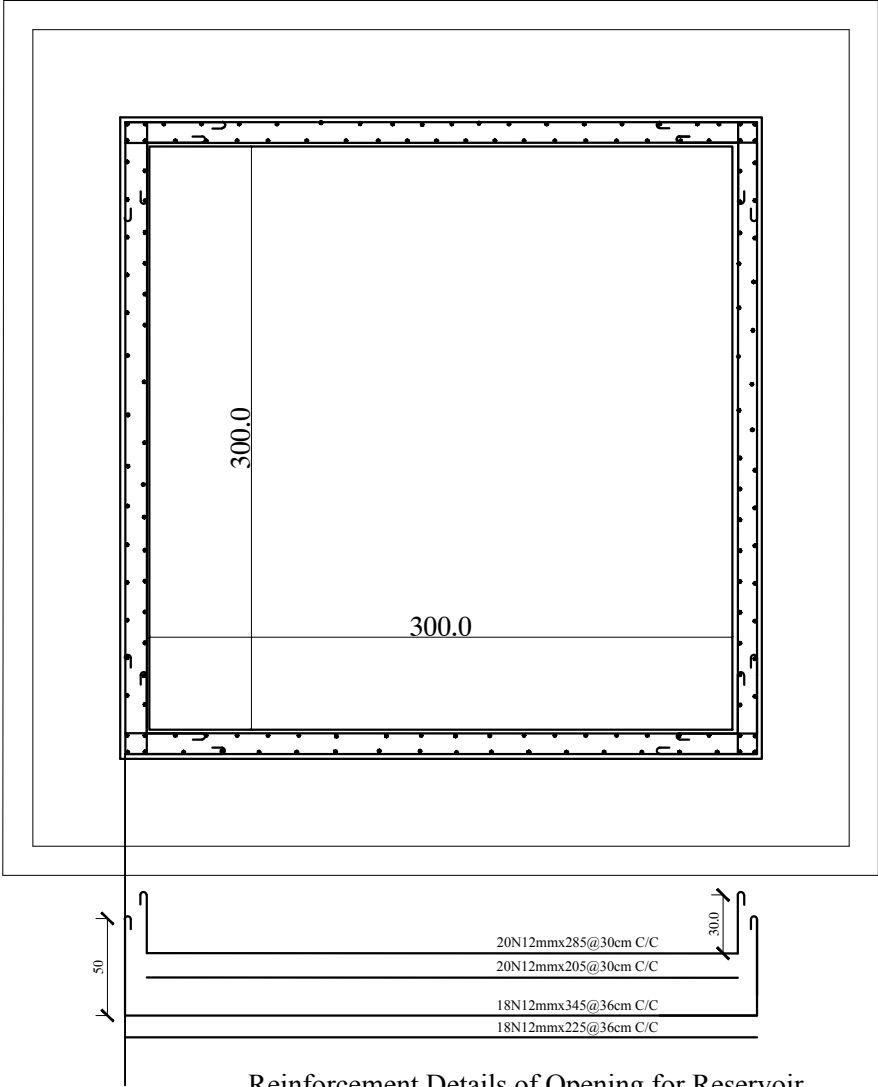
Section A-A
S 1:100



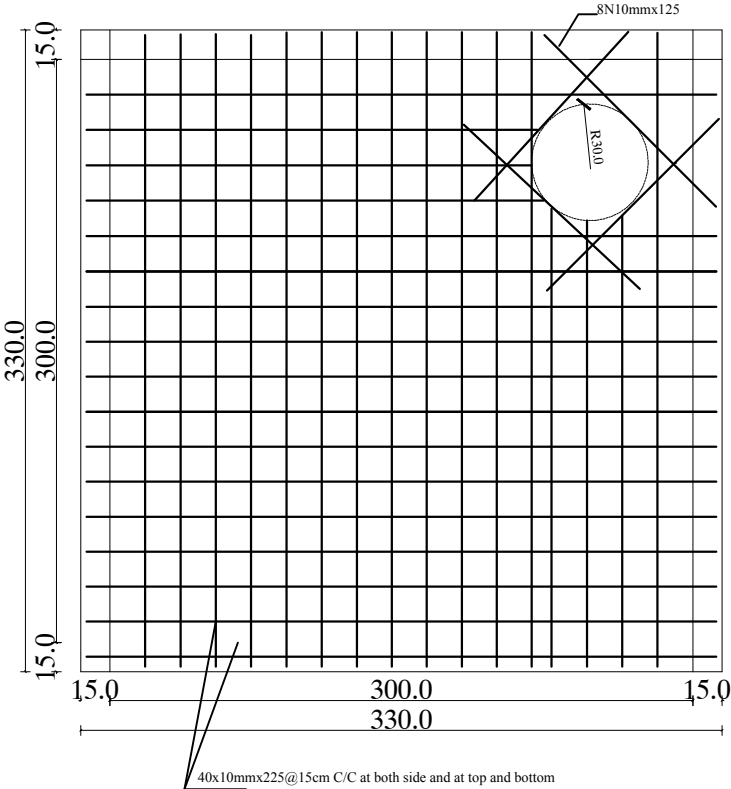
- 1-All dimensions are in cm
- 2-Foundation has been checked in bearing capacity of soil 1.5kg/cm,if the bearing capacity of soil is less than 1.5kg/cm the site Engineer should contact with design Engineer.
- 3-R.C.C mark should be 250 and P.C.C should be 150.
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- 5-Concrete should be vibrated and watered.
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- 7-The steel bar is class A-II($R_a = 2700 \text{ kg/cm}^2$) (for stirrups and secondary reinforcement class A-I will also be used).
- 9-During the concrete working a cubic sample should be taken.
- 8-Cement mortar which use for walls and stone mason.
- 9-The mark of brick should be 70 kg/cm the ratio are 1:4

 UNHCR <small>The UN Refugee Agency</small>		<h1 style="text-align: center;">Afghanistan</h1>				
		<h2 style="color: #E67E22;">KANDAHAR HELMAND PROJECT</h2>				
Project Code		HLD-000-000				
Project Title		New Construction of Hand Washing Station				
Drawing Title		Plan & front preview				
Project Location		Helmand province				
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.				00 of 00
Sign						Scales:
Date						1:100

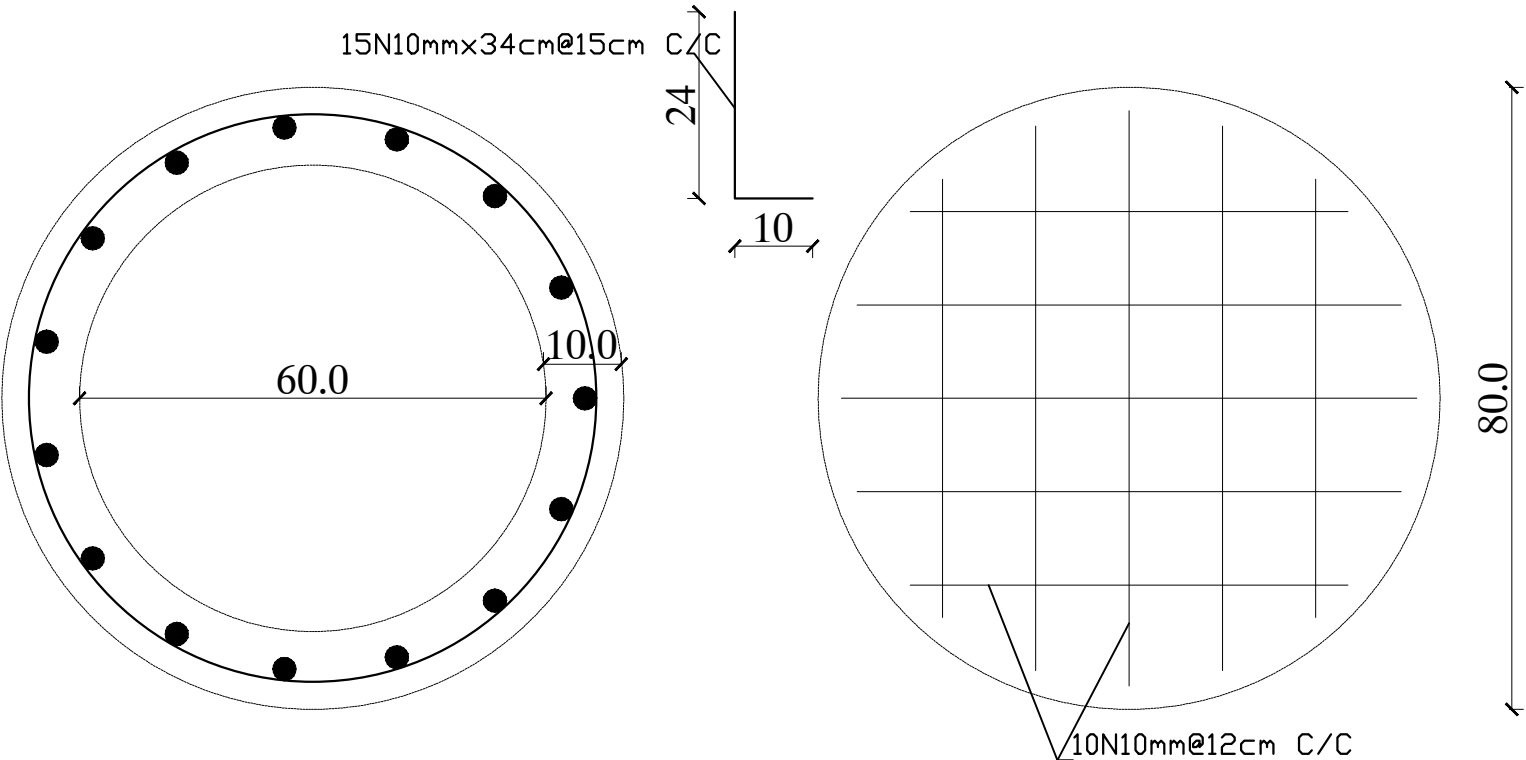
Reinforcement plan of Reservoir




Reinforcement plan of slab of Reservoir



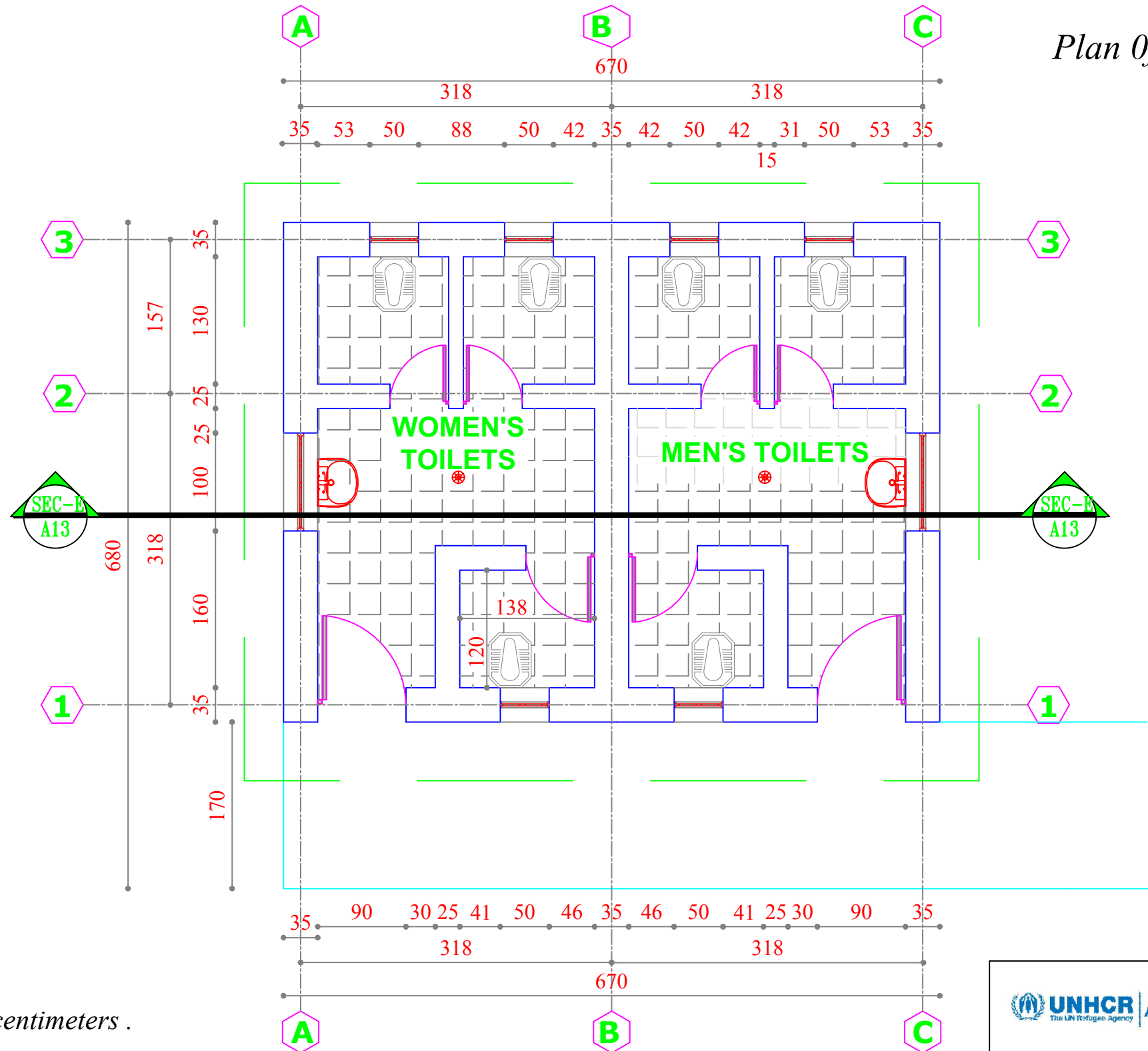
Note:All side Should be Reinforced as shown



<div><div> UNHCR Afghanistan</div><div>HELMAND SCHOOL PROJECT</div></div>					
Project Code		HLD-000-000			
Project Title		New Construction of Hand Washing Station			
Drawing Title		Plan & front preview			
Project Location		Helmand provence			
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.			
Sign					
Date					
Sheet No:					00 of 00
Scales:					1:100

Plan of Construction Toilets

SCALE 1:100



Note:

1-All dimension are in centimeters .

2-PCC shall be (1:2:4).

3-Mortar for stone masonry shall be (1:4).

4-Mortar for Brick masonry shall be (1:3).

5-RCC shall be (1:1,5:3).

6-All steel bars should be not eroded or lubricated and has to be clean.

7-All steel bars should be Class(A1) $R_a = 2100 \text{ Kg/cm}^2$.

8-The curing must be not less than (28) days.

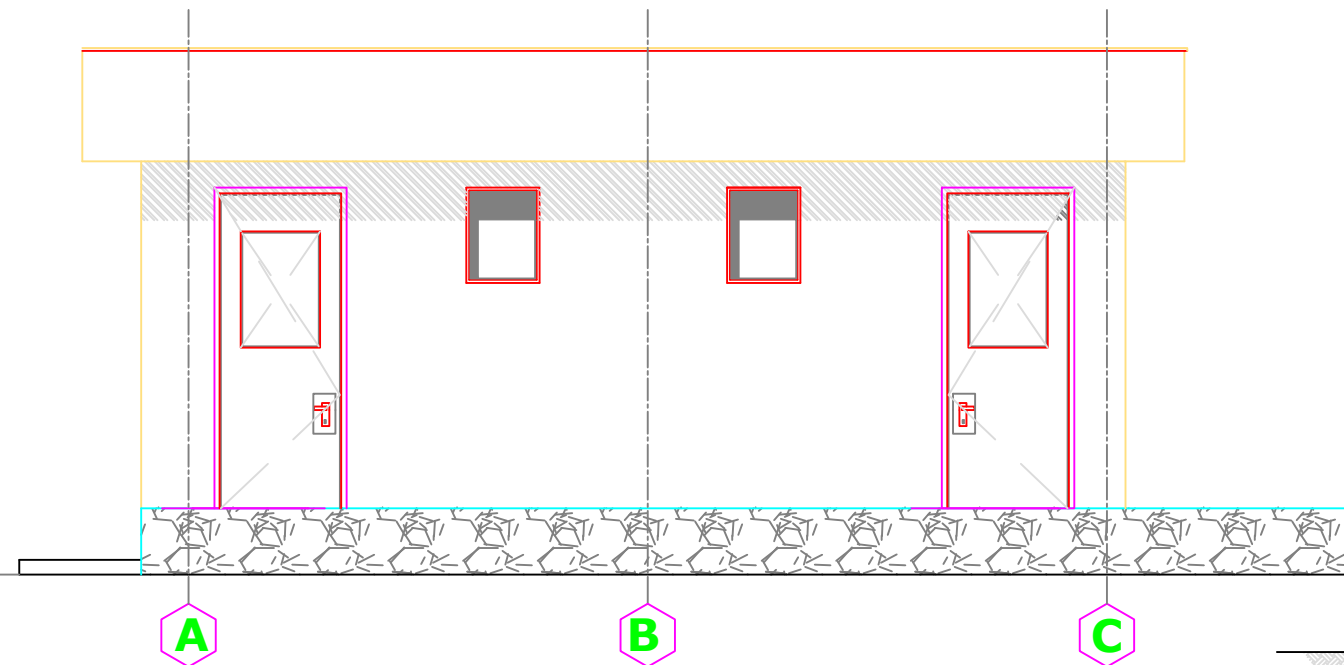
UNHCR Afghanistan
The UN Refugee Agency

HELMAND
SCH00L- PROJECT

Project Code	HLD- 000 - 000				
Project Title	New Construction of Toilets				
Drawing Title	reinforcement bending floor of building				
Project Location	Helmand City				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.			00 of 00
Sign					Scales:
Date					1:100

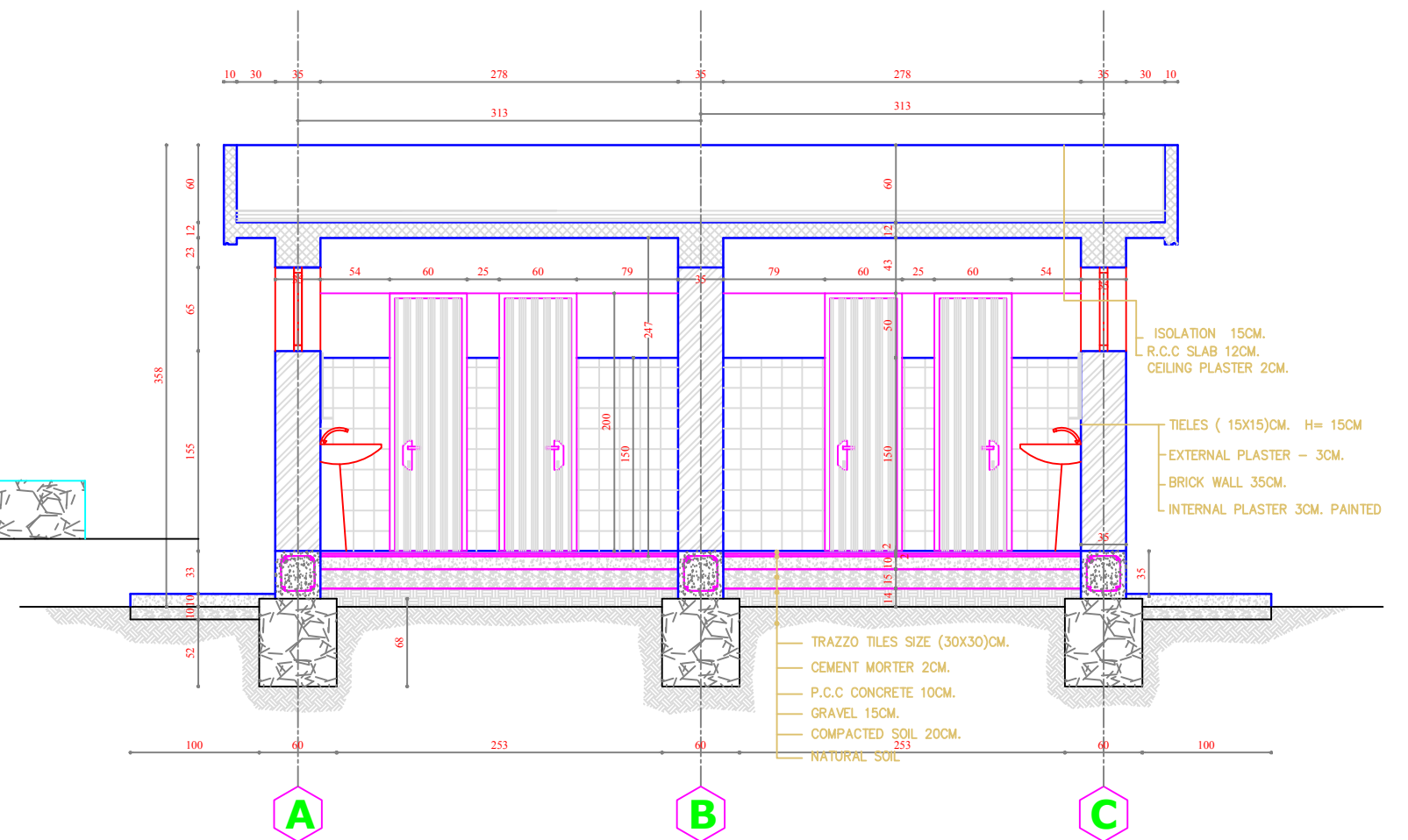
Front Preview Of Construction Toilets

SCALE 1:100



Section A-A

SCALE 1:100



Note:

1-All dimension are in centimeters .

2-PCC shall be (1:2:4).

3-Mortar for stone masonry shall be (1:4).

4-Mortar for Brick masonry shall be (1:3).

5-RCC shall be (1:1,5:3).

6-All steel bars should be not eroded or lubricated and has to be clean.

7-All steel bars should be Class(A1) $R_a = 2100 \text{ Kg/cm}^2$.

8-The curing must be not less than (28) days.

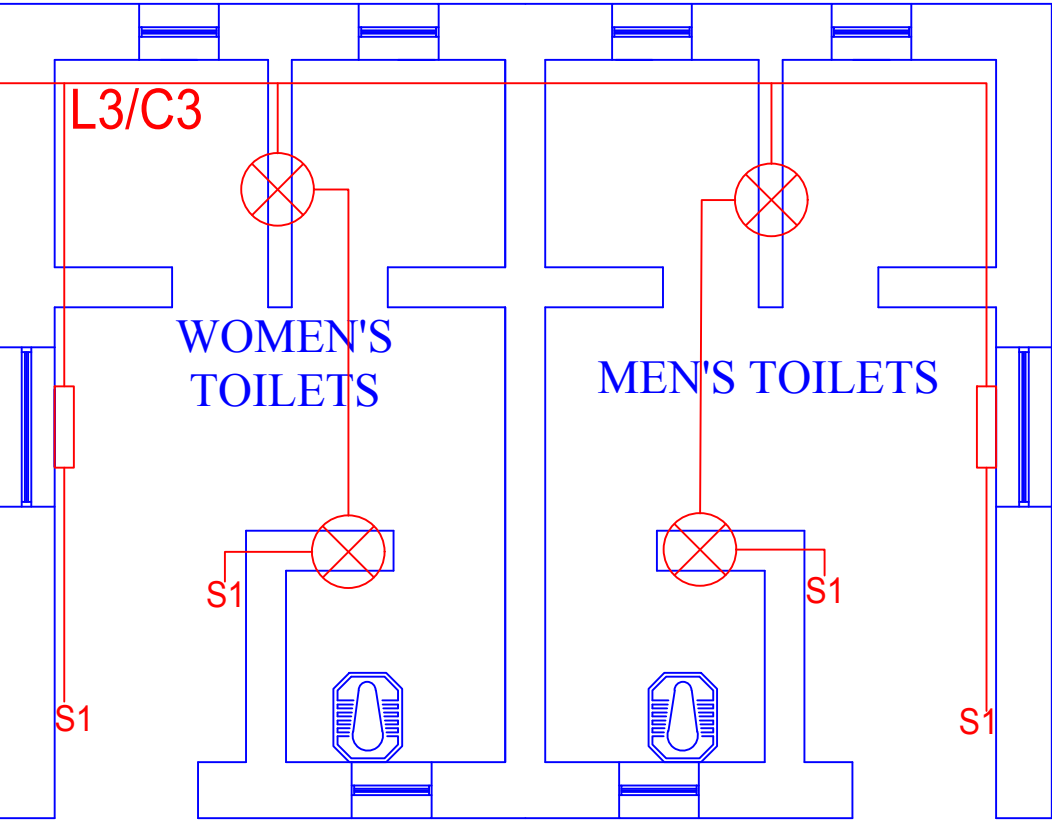
 **UNHCR** | Afghanistan
The UN Refugee Agency

**HELMAND
SCHOOL- PROJECT**

Project Code	HLD- 000 - 000				
Project Title	New Construction of Toilets				
Drawing Title	front preview & Section of building				
Project Location	Helmand City				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100

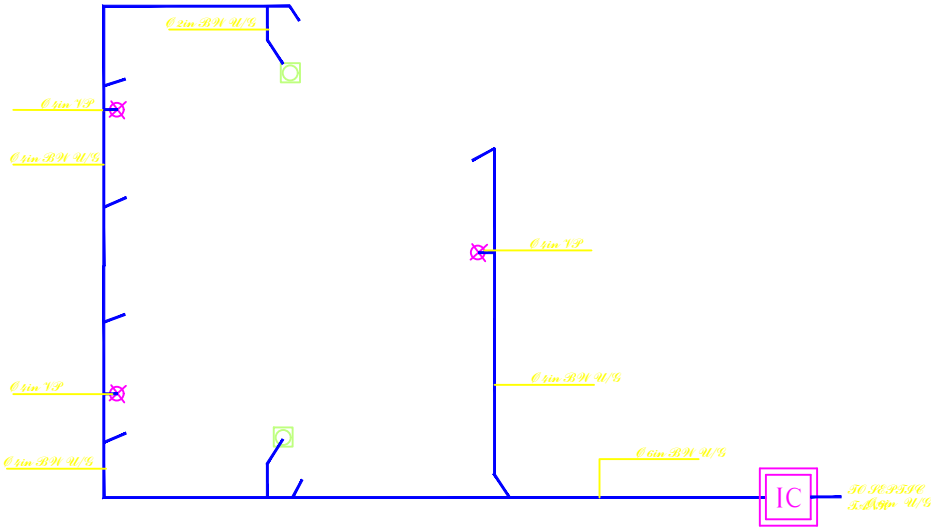
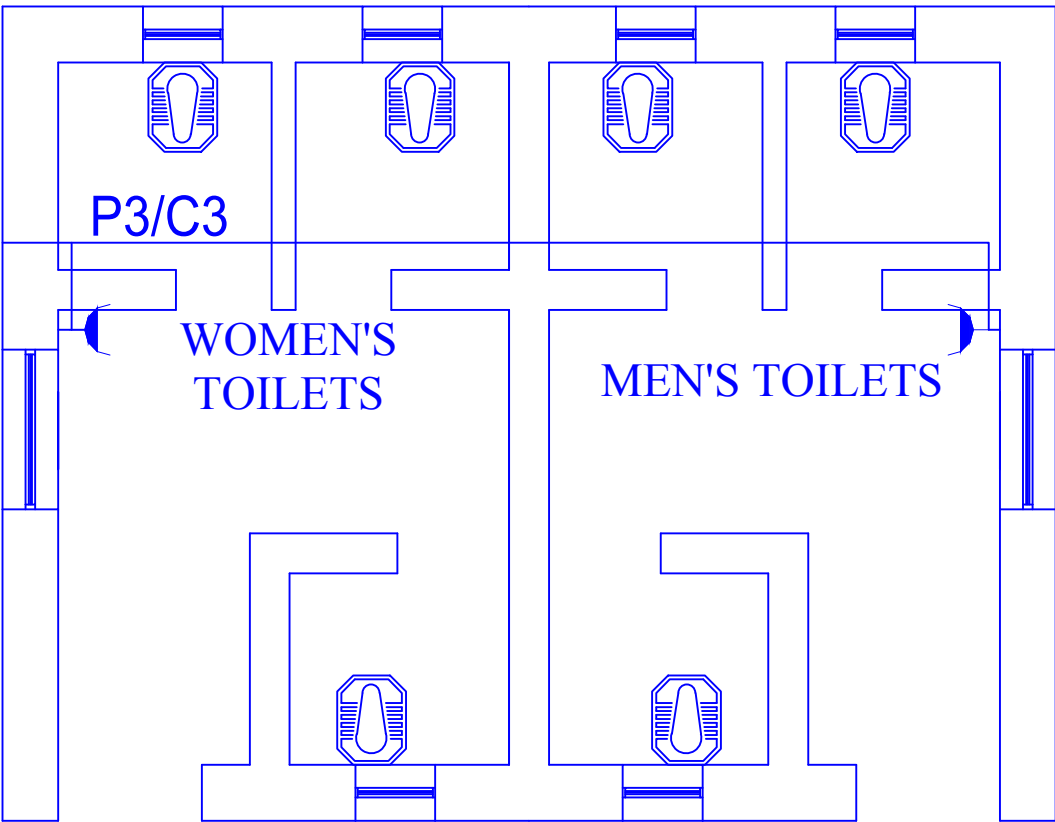
Electration Plan Of Construction Toilets

SCALE 1:100



Mecanical Plan Of Construction Toilets


SCALE 1:100



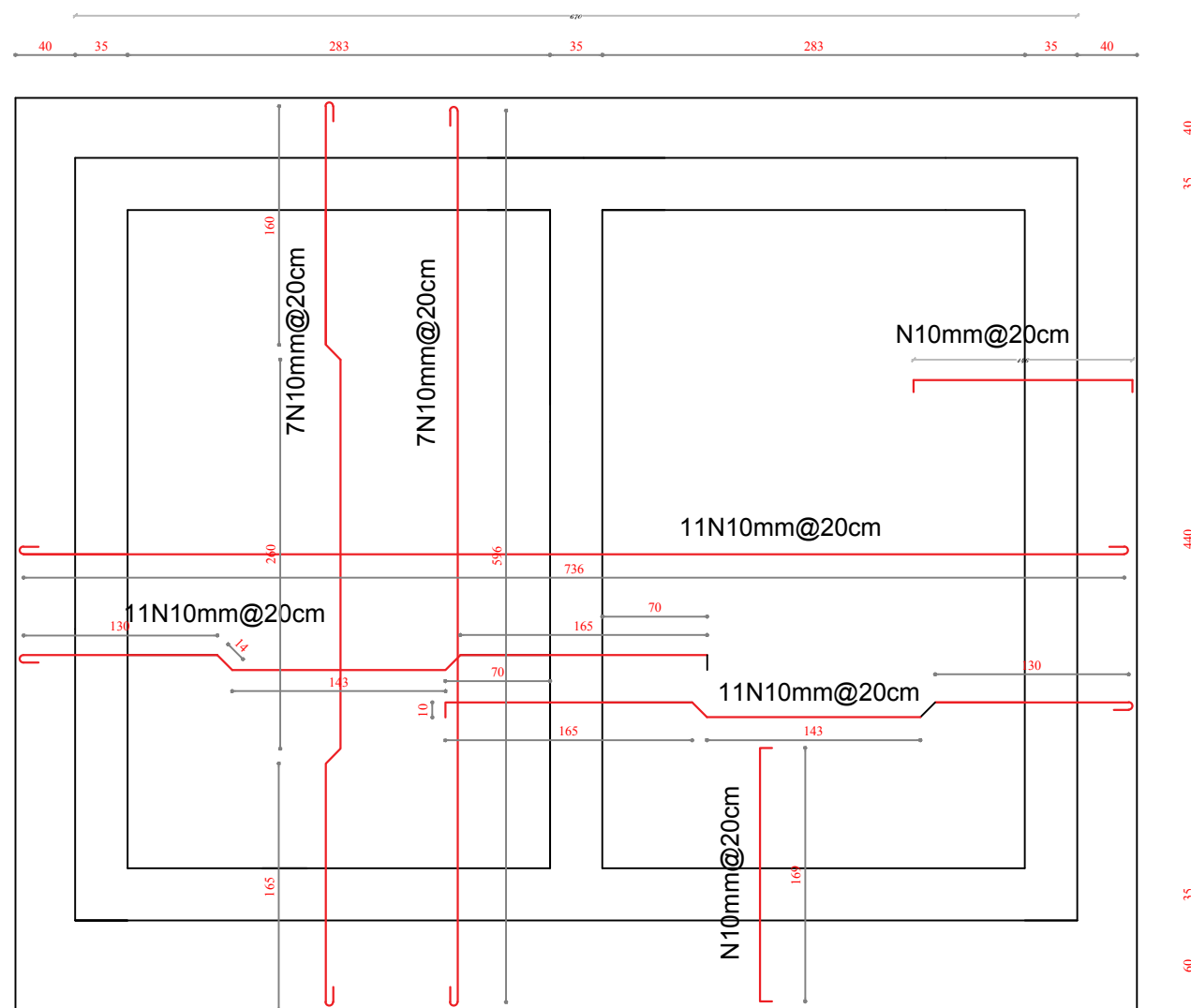
Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for Brick masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .
- 8-The curing must be not less than (28) days.

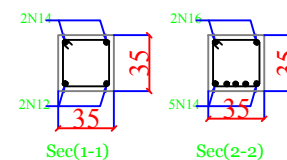
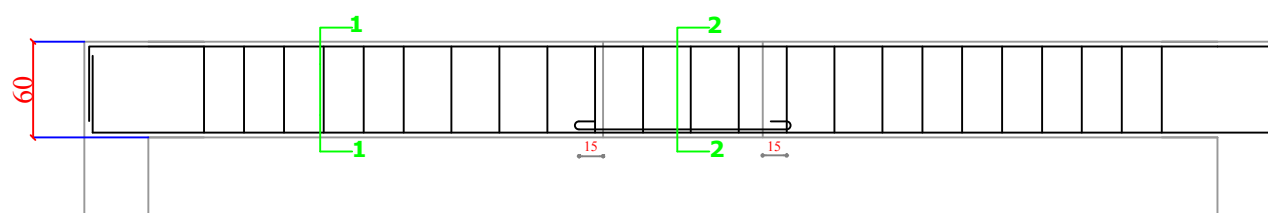
EXTERIOR TOILETS DRAINAGE
SCALE= 1/40

<div><div> UNHCR Afghanistan</div><div>The UN Refugee Agency</div></div> <div>HELMAND SCHOOL- PROJECT</div>					
Project Code		HLD- 000 - 000			
Project Title		New Construction of Toilets			
Drawing Title		Felicitation & Mechanical plan			
Project Location		Helmand City			
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.			
Sign					
Date					
Sheet No:					00 of 00
Scales:					1:100

STEL BENDING PLAN OF SLAB




TOILAT



Specification:

1. Slab thickness: for slabs is 12 cm
2. for parapets is 7.5
3. cover : for slab is 2.5 cm ,for beams is 3cm for column is 4cm , for foundation is 6cm
4. plaster thickness: for walls shall be 2cm , for ceiling shall be 1cm of cement , lime ,sand at ratio of (1:5:10)
5. forms work : shall be straight , perpendicular structural and visual requirement .do not use weak formwork that Causes bulges, gaps or holes in the poured concrete.
Reinforcing bars: reinforcing steel bar for all members shall be deformed bars and shall be minimum yield strength of 2400 kg/sqcm. The steel bars for all members shown in drawing.
6. Concrete: all reinforcement concrete shall be power machine mixed and machine vibrated. the concrete mark shall be in
Foundation is 150kg/sqcm ,for slabs ,beams and ring beams is 200kg /sqcm in (1:1.5:3) & in columns shall be 250kg/sqcm (1:1:2).
7. Aggregates: aggregates shall be clean crushed rock, hard, free from coating and dust. the maximum size of aggregate shall be 20 mm and not exceeding 75 between steel reinforcement or between reinforcement and formwork. % of the clear spacing
8. Earthquake coefficients: This is considerate in design
I= 1.5 (for hospital & clinics)
K= 1 (for ordinary frame)
9. the dimension of foundation is designed for Bearing capacity =2Ton/m² if the BC is smaller than this ,the dimension must be change according bearing capacity of that earth. structure building)



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Afghanistan

HELMAND
SCHOOL- PROJECT

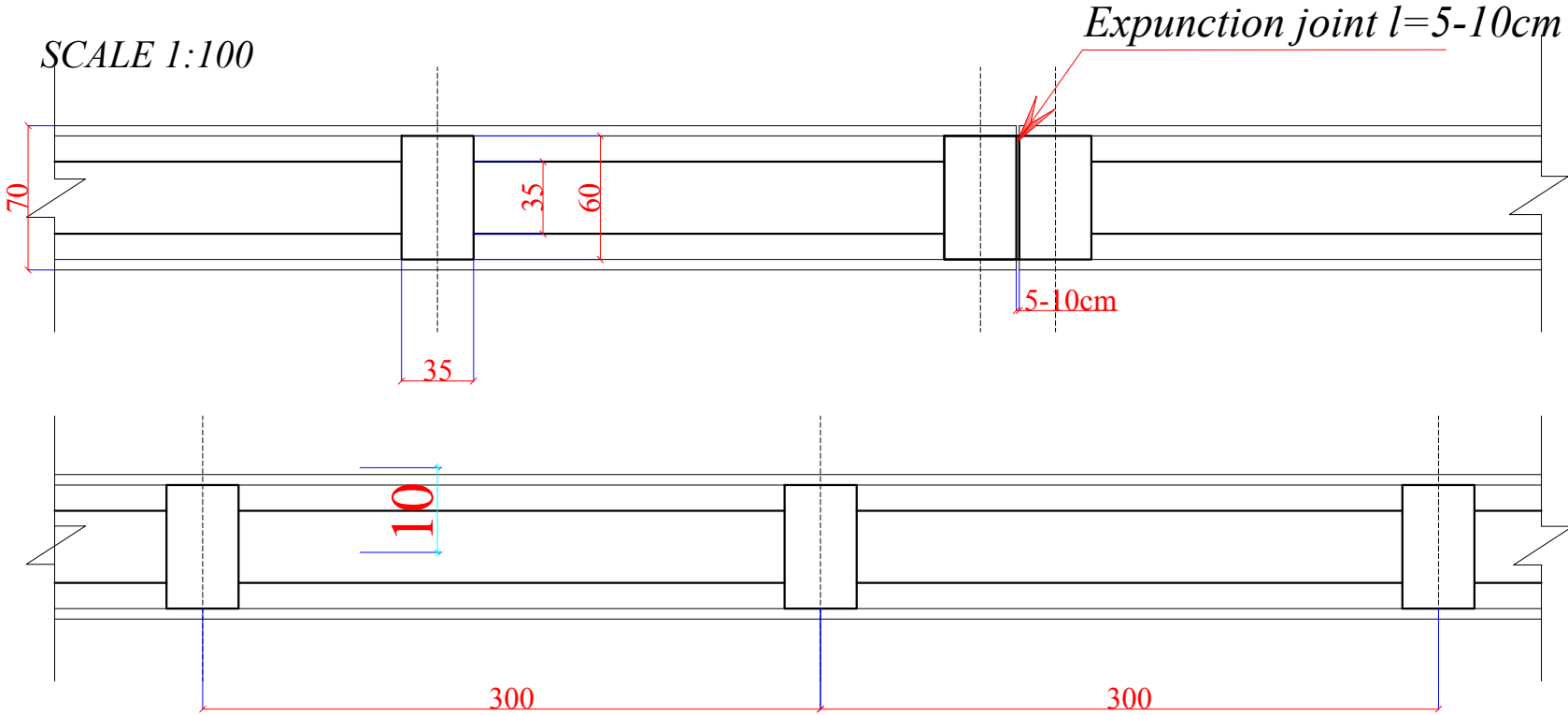
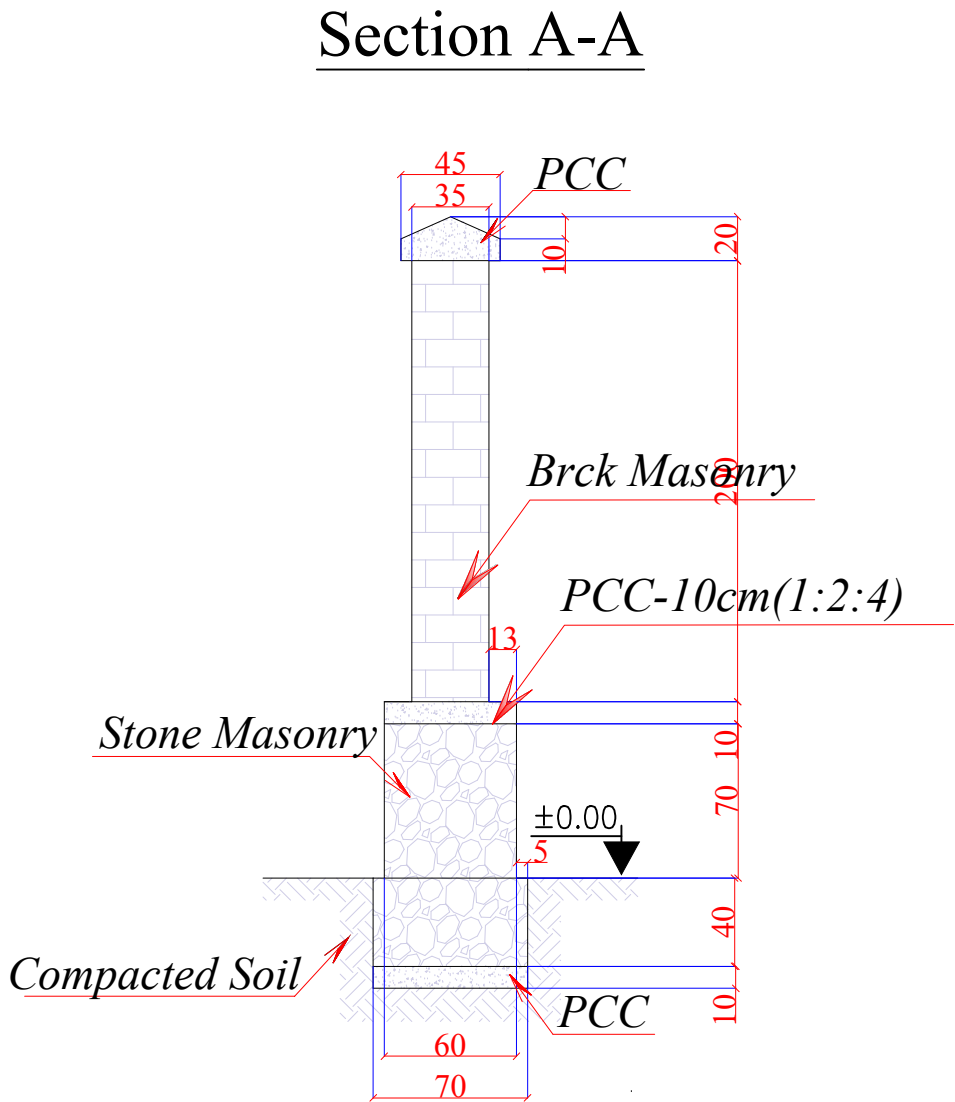
Project Code	HLD- 000 - 000				
Project Title	New Construction of Toilets				
Drawing Title	Reinforcement bending floor of building				
Project Location	Helmand City				

Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.				00 of 00
Sign						Scales:
Date						1:100

Boundary wall for School building

Plan Of Burnet Brick boundary wall

SCALE 1:100



Lenght of Brick, stone masonry boundary wall=270m


Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) $R_a = 2100 \text{ Kg/cm}^2$.
- 8-The curing must be not less than (28) days.

Project Code	HLD - 000 - 000				
Project Title	New Construction of Boundary wall				
Drawing Title	Plan & Sections of wall				
Project Location	Helmand Province				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.			00 of 00
Sign					Scales:
Date					1:100

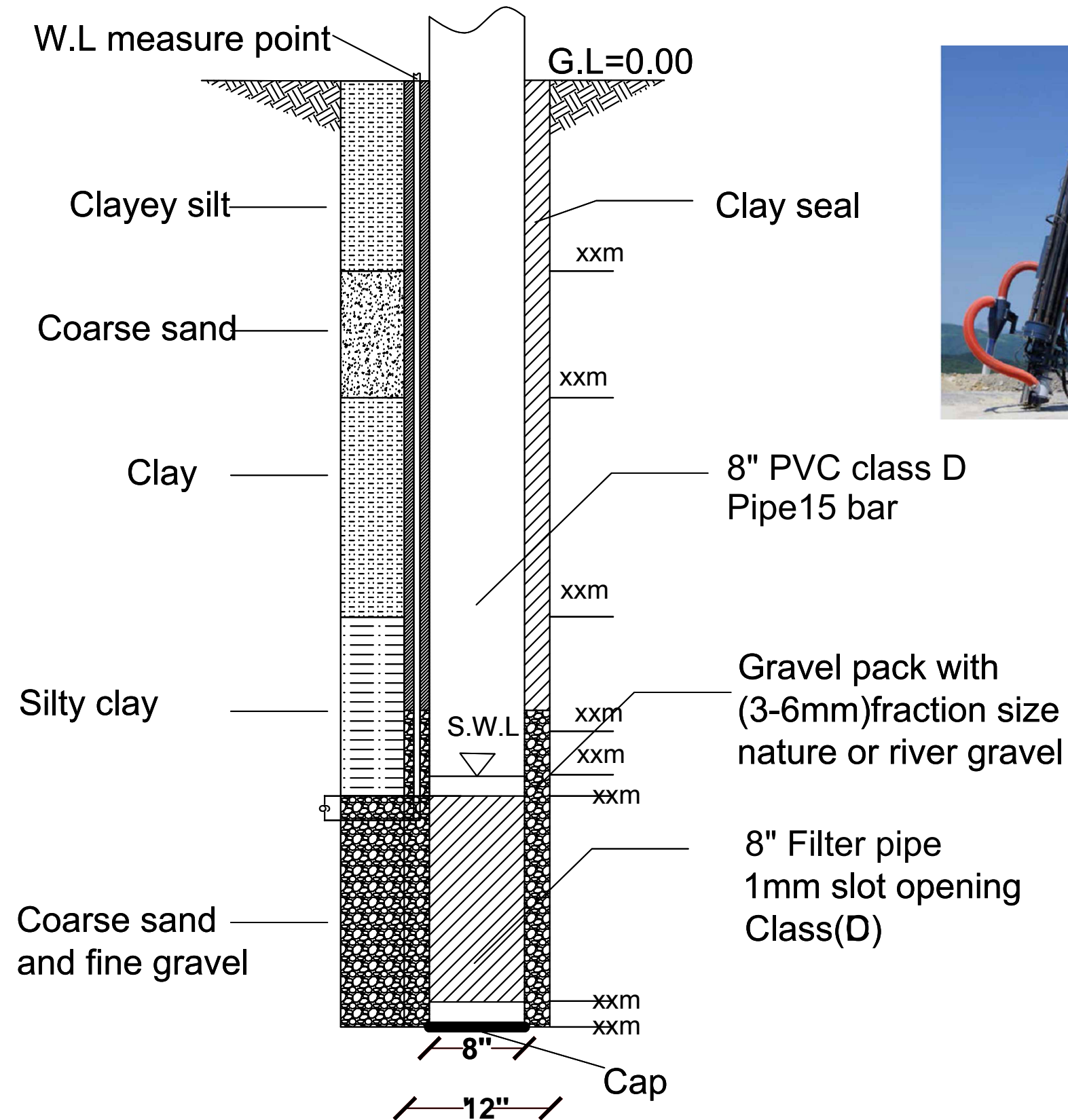
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 UNHCR <small>The UN Refugee Agency</small>	<h1 style="margin: 0;">Afghanistan</h1>	<h2 style="margin: 0; color: #D9534F;">HELMAND SCHOOL PROJECT</h2>
Project Code	HLD - 000 - 000	
Project Title	New Construction of Boundary wall	
Drawing Title	Front Preview	
Project Location	Helmand Province	

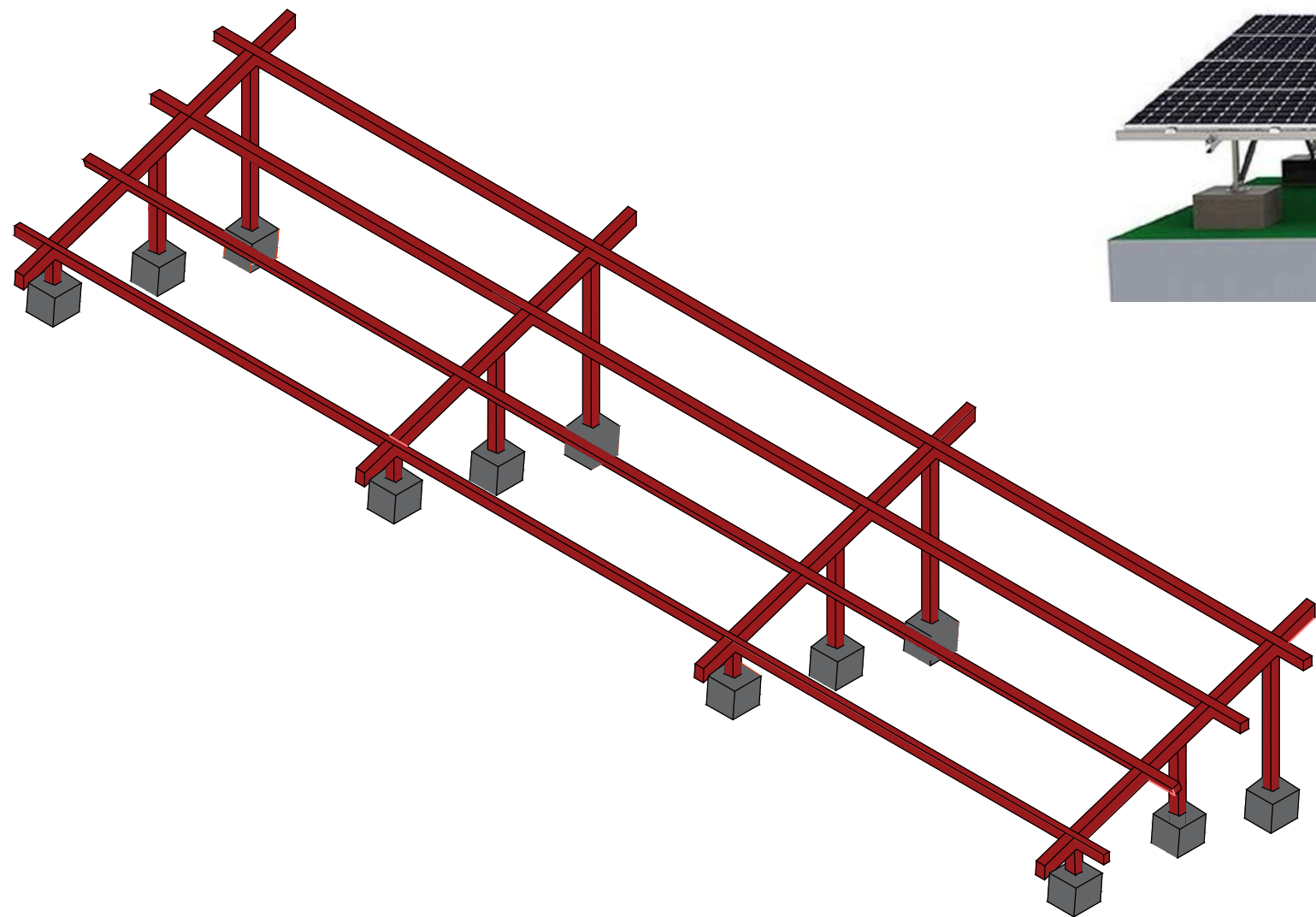
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100

Deep Well drilling by Compressor/Rotary



Project Code		ORG-000-000				
Project Title		New Drilling of Deep bore well in School				
Drawing Title		Plan & front preview				
Project Location		Lashkargah City				
Drawn By:		Designed By:	Checked By:	Review By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.				00 of 00
Sign						Scales:
Date						1:100

Solar panel frame design and specification



Note:

1-All dimension are in meter .

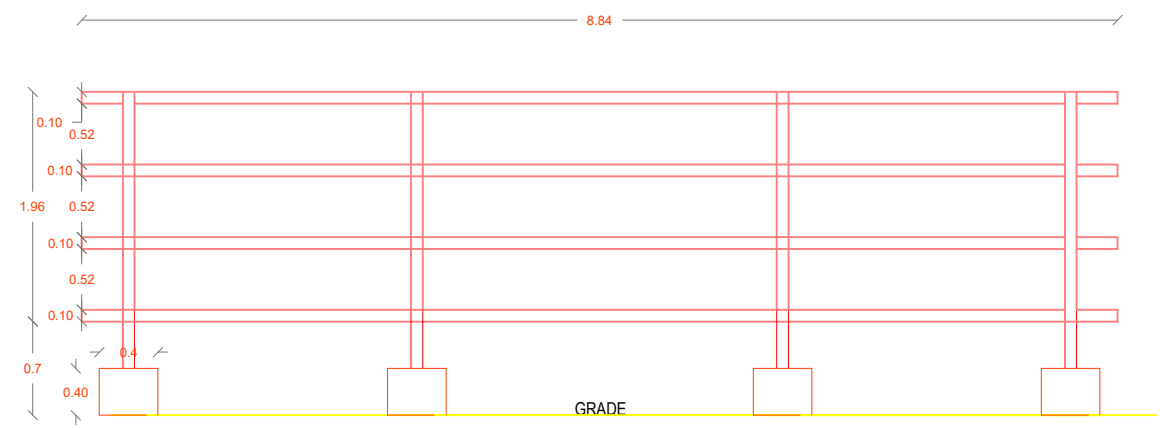


Afghanistan

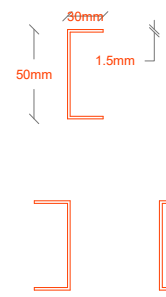


Project code	KDR - 000 - 000		
Project			
Drawing Title	Solar panel frame design and specification		
Project Location	South Region Kandahar Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr.Esmatullah	Engr.Esmatullah	Engr. Imran danish
Sign			
Date			

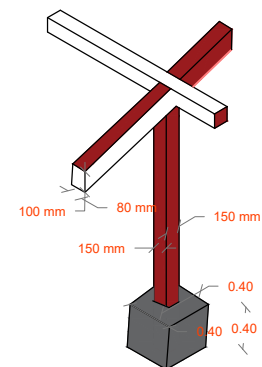
Solar panel frame design and specification



FRONT VIEW



DETAILS of L Ring

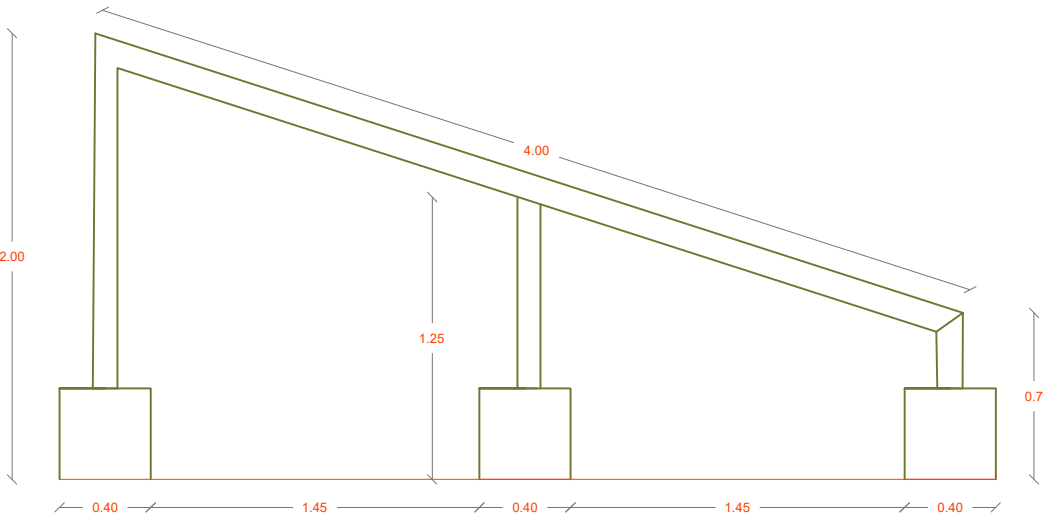


DETAILS of L Ring




SAMPLE IMAGE

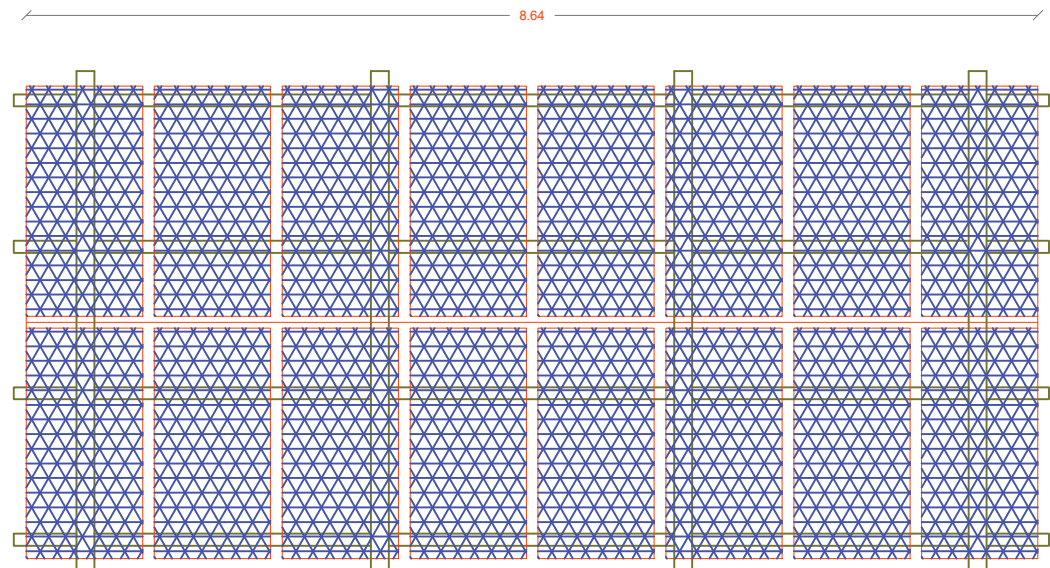
- Note:**
- 1-Steel for frame will be 18 Gouge
 - 2-Solar panels must be netted and bolted in L Ring frames
 - 3-L Ring will be (thickness=1.5mm)
 - 4-Frames must be welded by electricity
 - 5-All dimension are in Meter .



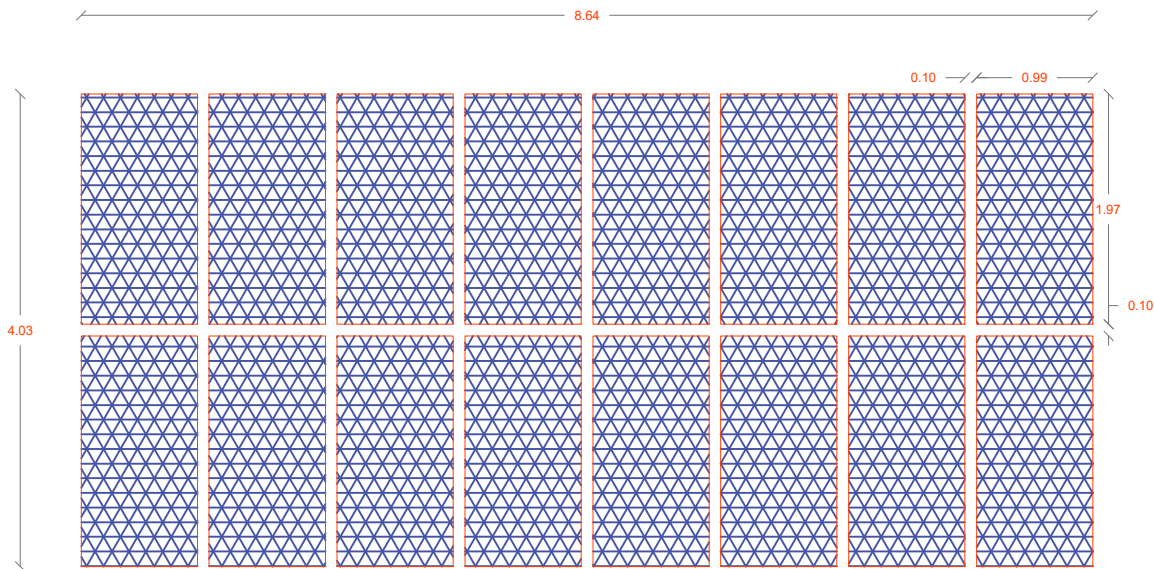
SECTION VIEW

			
Project code	KDR - 000 - 000		
Project			
Drawing Title	Solar panel frame design and specification		
Project Location	South Region Kandahar Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr.Esmatullah	Engr.Esmatullah	Engr. Imran danish
Sign			
Date			

Solar panel frame design and specification






TOP VIEW

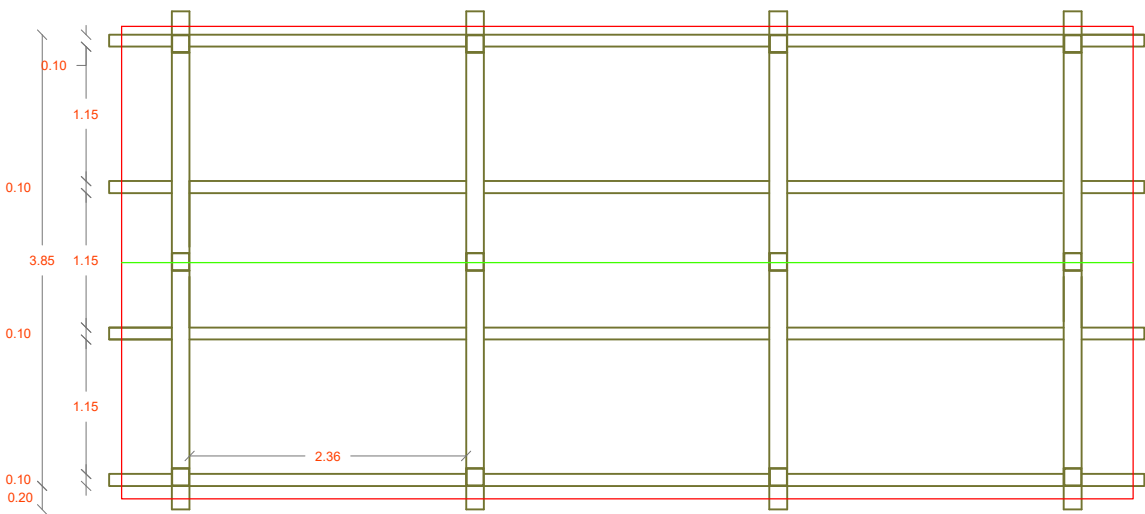


Top VIEW

Note:

- 1-Steel for frame will be 18 Gouge
- 2-Solar panels must be netted and bolted in L Ring frames
- 3-L Ring will be (thickness=1.5mm)
- 4-Frames must be welded by electricity
- 5-All dimension are in Meter .

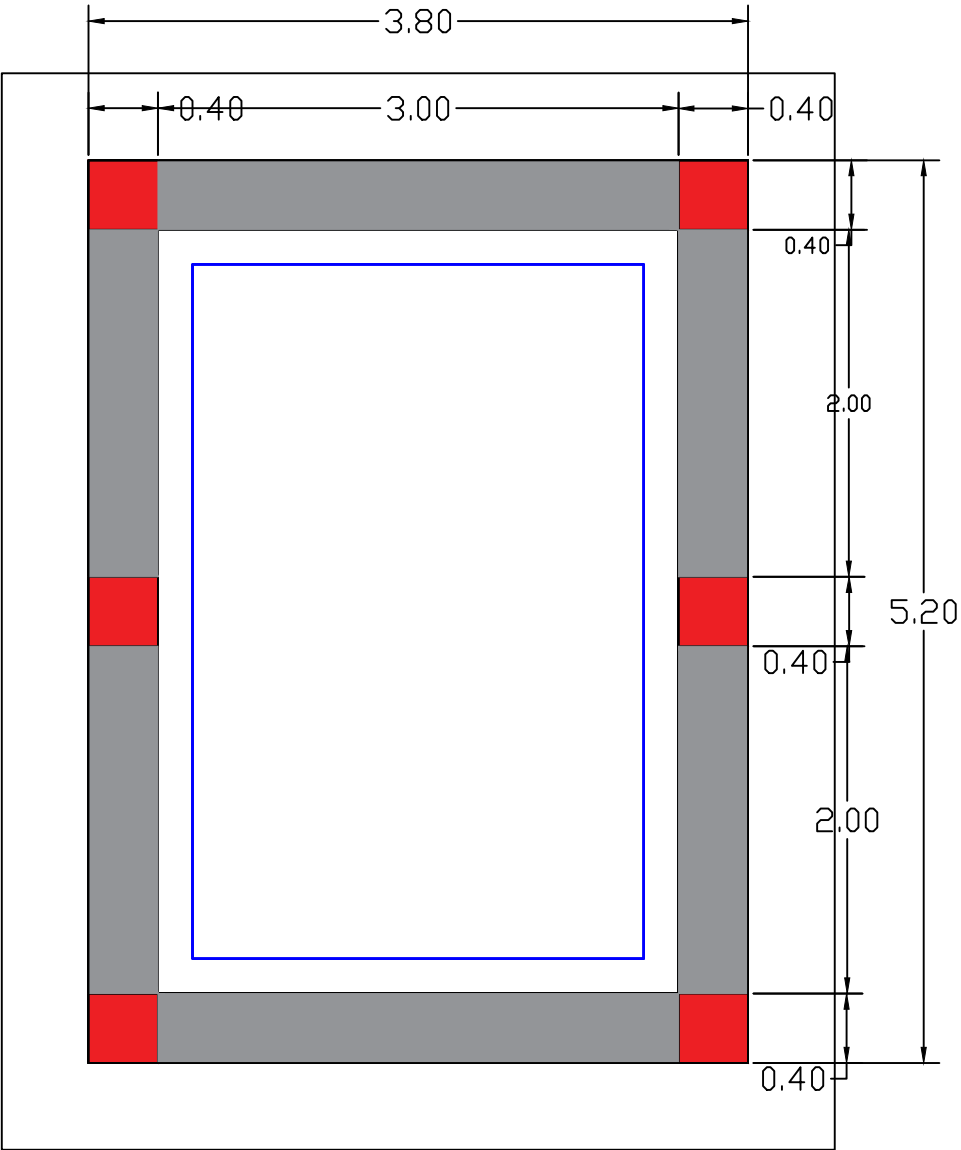
 UNHCR The UN Refugee Agency		 Afghanistan		 زنان برای زنان افغان ښځې د افغان ښځو لپاره WOMEN FOR AFGHAN WOMEN
Project code		KDR - 000 - 000		
Project				
Drawing Title		Solar panel frame design and specification		
Project Location		South Region Kandahar Afghanistan		
Drawn By:		Designed By:	Checked By:	
Name	Engr.Esmatullah	Engr.Esmatullah	Engr. Imran danish	
Sign				
Date				



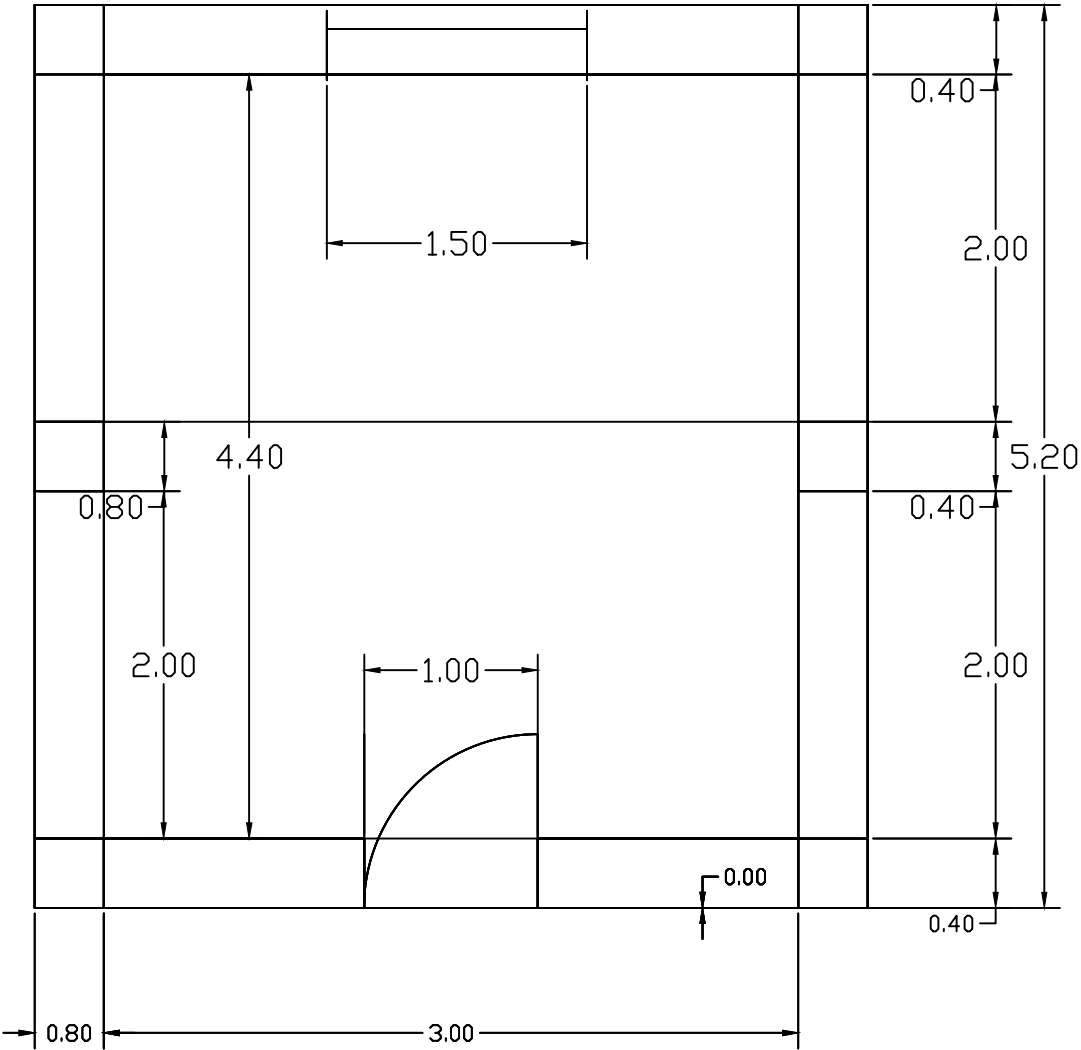
TOP VIEW

WATER RESERVOIR with volume = 30 cum

PLAN OF RESERVOIR

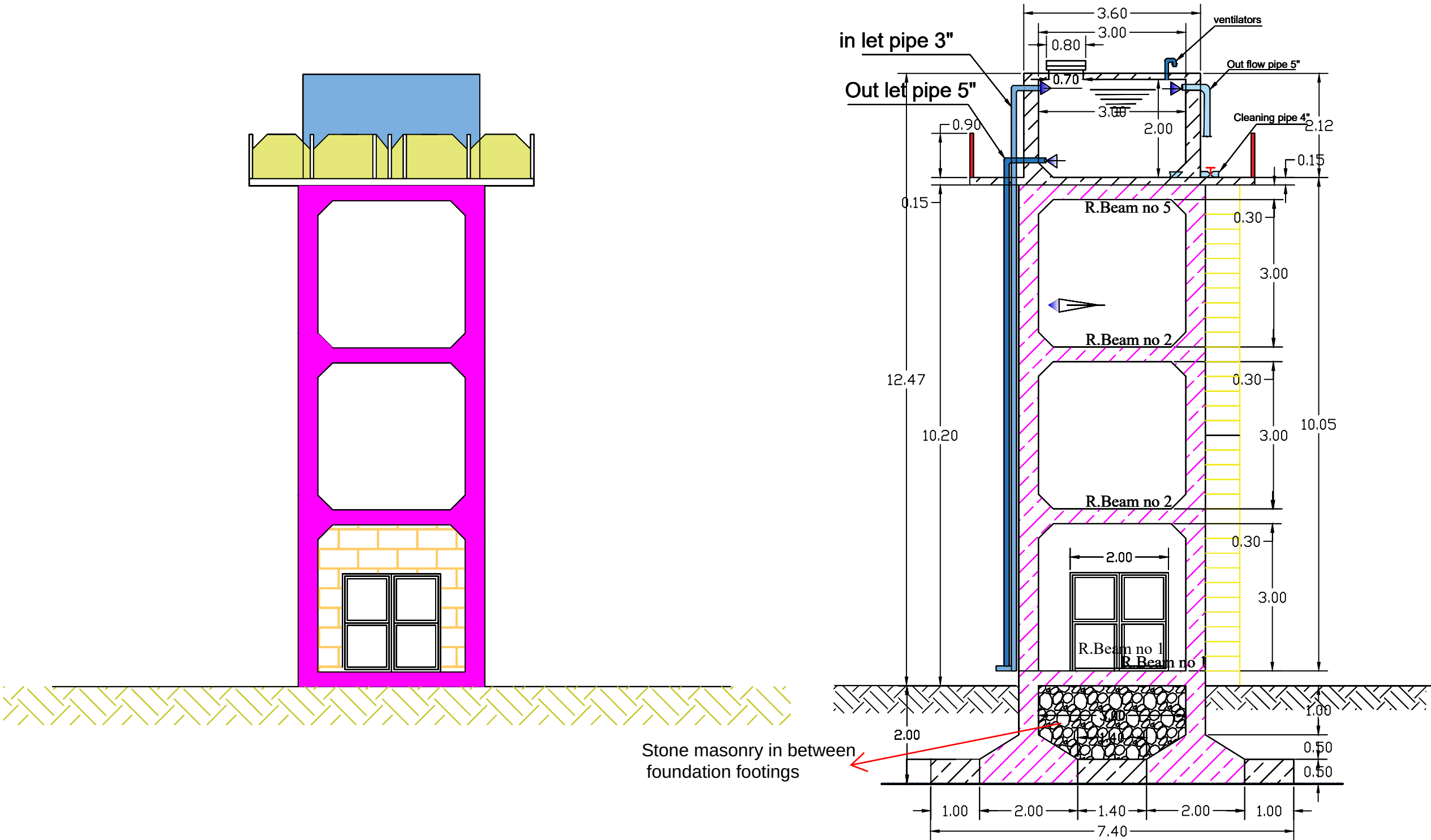


Store room



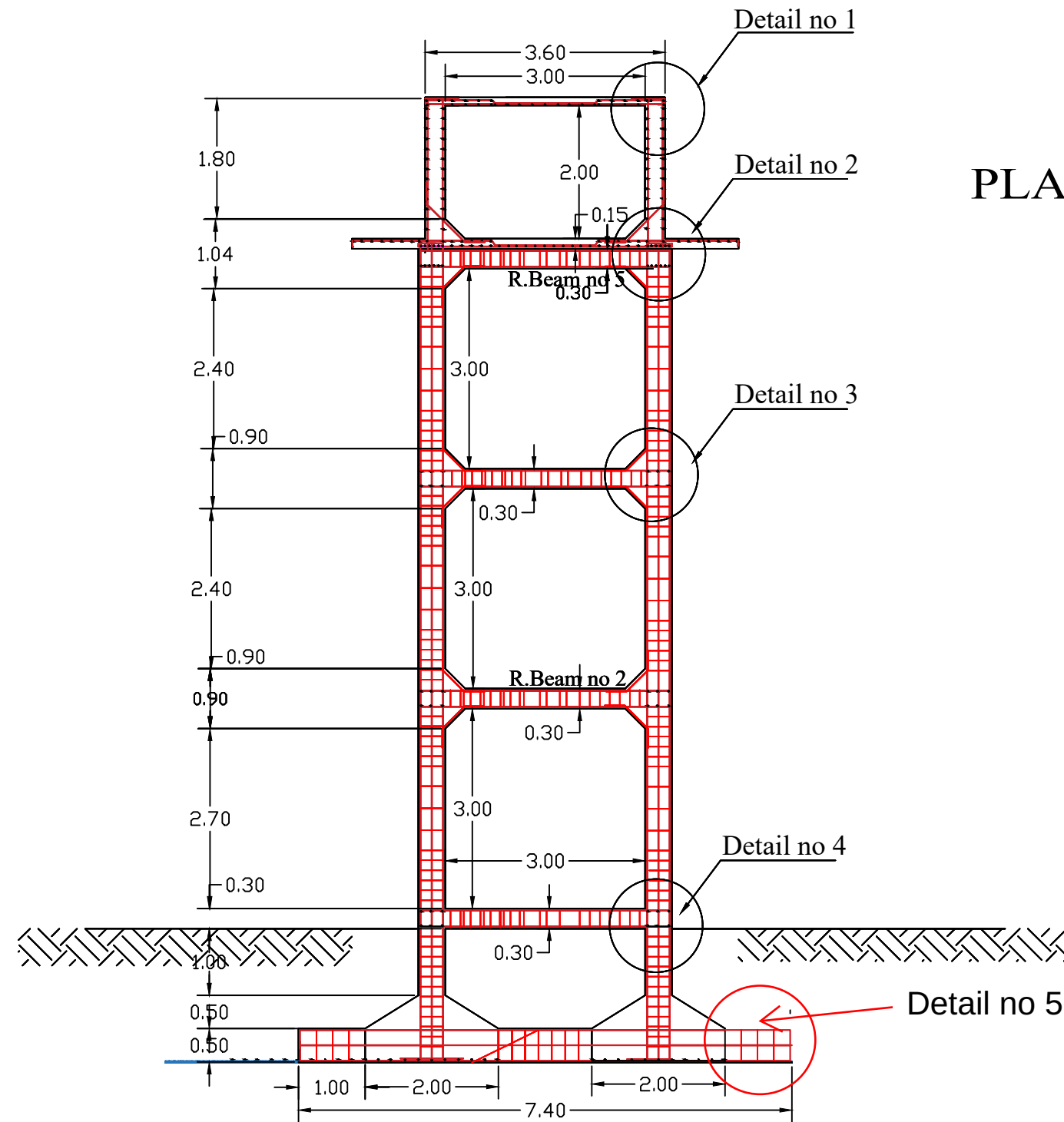
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	1			Structural.D. by		Date	25 09 17		District	
	2			Drawn by		Drawing No.	ST-01		Village	
	3			Approved by						

FRONT ELEVATION & SECTION A-A

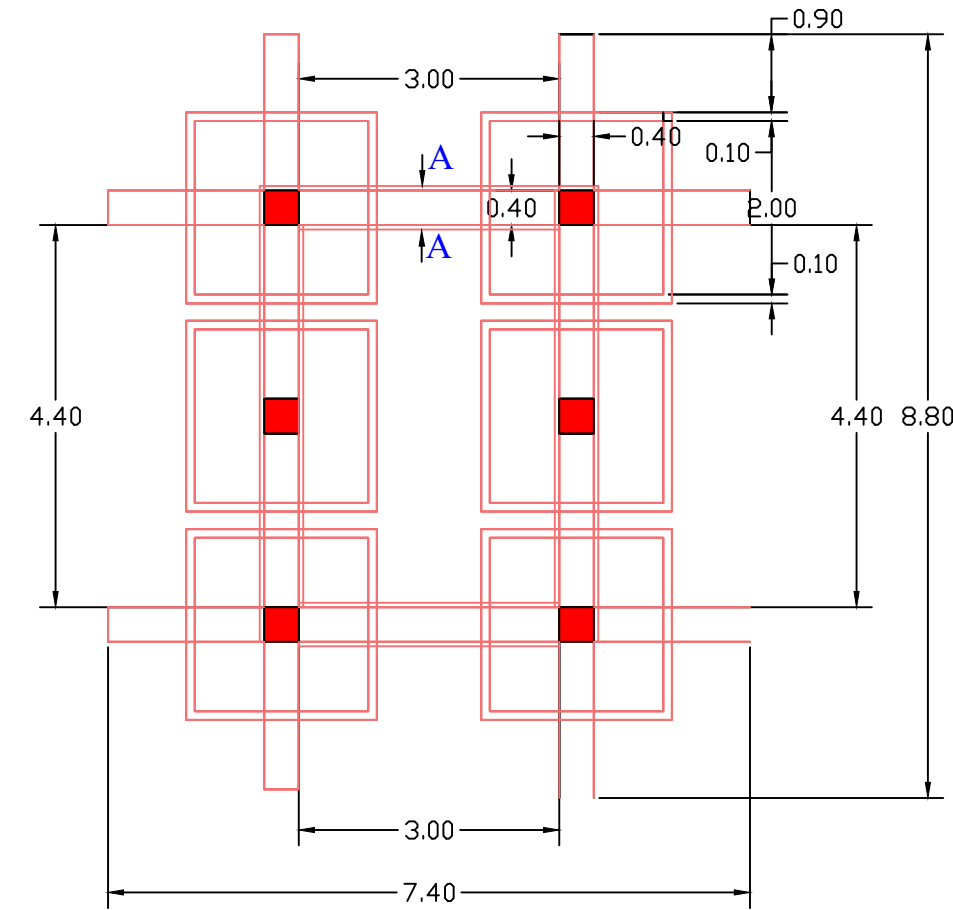


	No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN OFFICE : PROGRAM:WATER SUPPLY ENGINEERING DEPARTMENT	Scale	1 : 100		Province	Project name: RCC elevated Water reservoir 30.0 m3 Drawing Title: Plan & sections
	1			Structural.D. by		Date	25 09 17		District	
	2			Drawn by		Drawing No.	ST-01		Village	
	3			Approved by						

REINFORCEMENT DETAILS



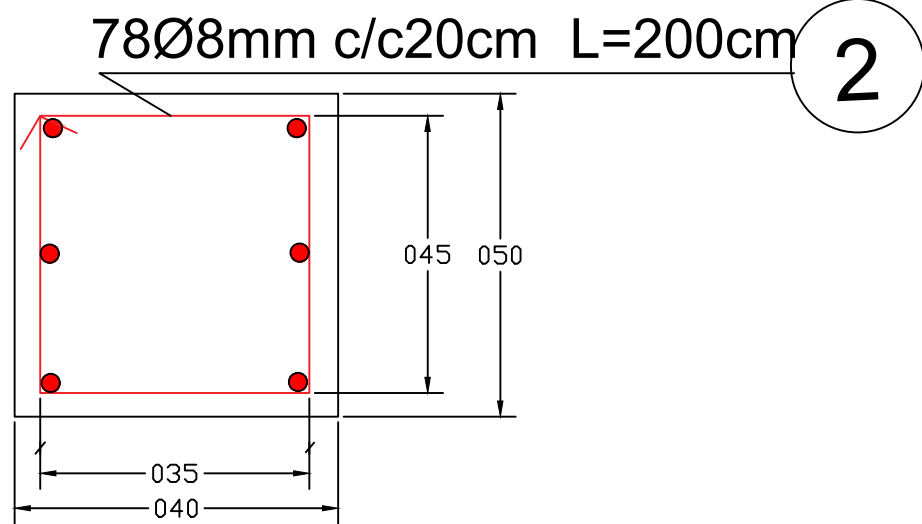
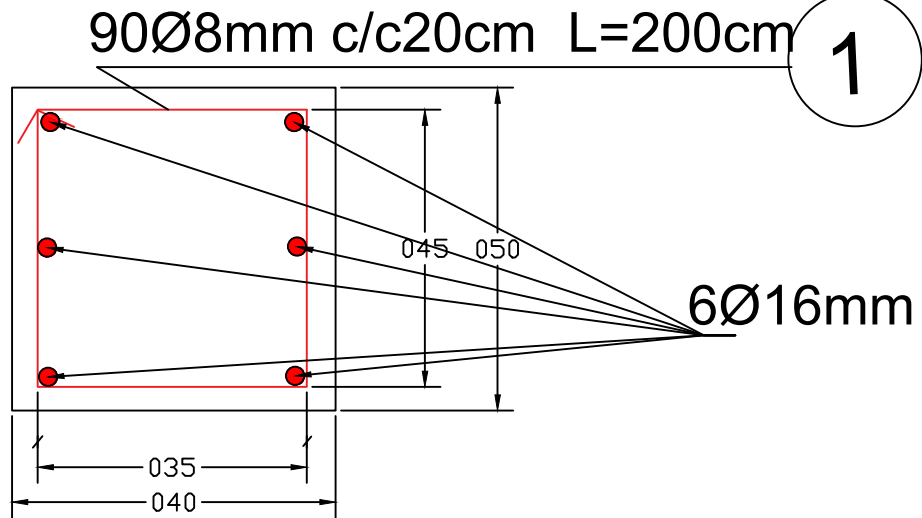
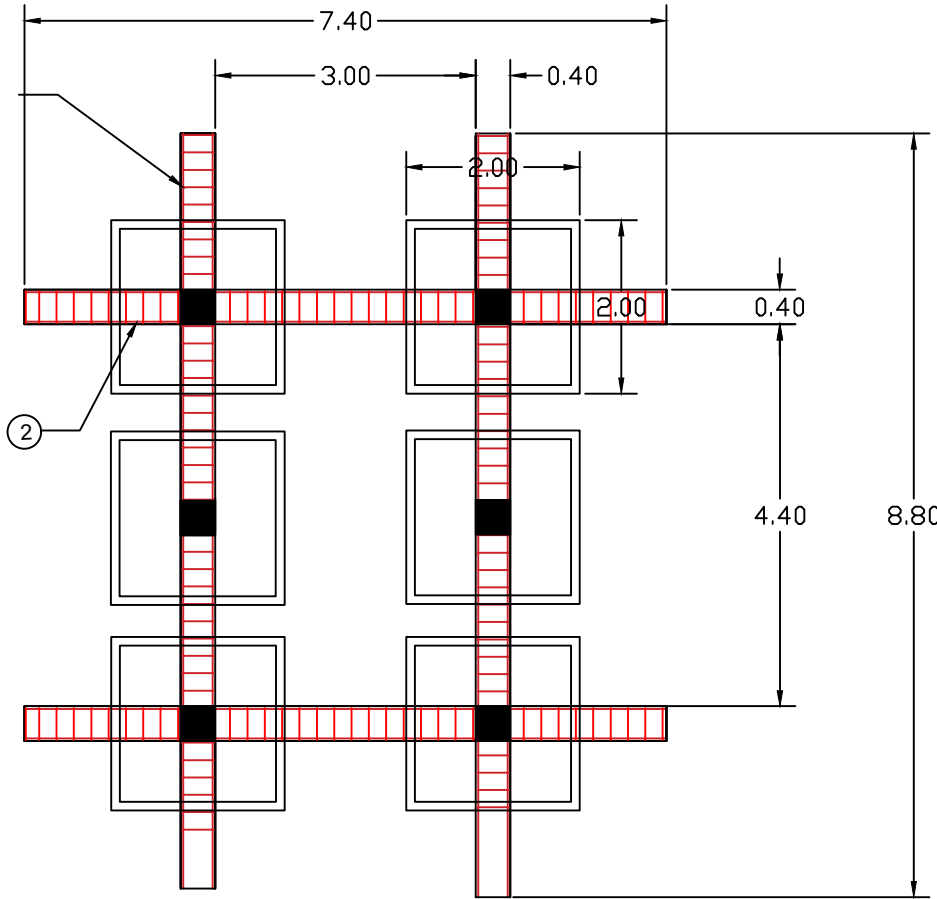
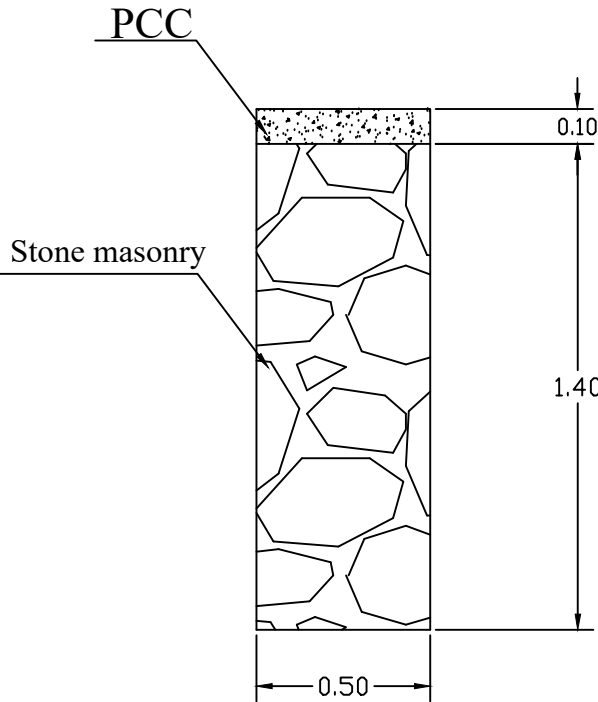
PLAN OF FOUNDATION FOR RESERVOIR



	No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN OFFICE : PROGRAM:WATER SUPPLY ENGINEERING DEPARTMENT	Scale	1 : 100		Province		Project name: RCC elevated Water reservoir 30.0 m3
	1			Structural.D. by		Date	25 09 17		District		
	2			Drawn by		Drawing No.	ST-01		Village		
	3			Approved by							

PLAN STEEL BAR OF RING BEAM ABOVE FOUNDATION

SECTION A-A
for stone masonry in between
foundation footings



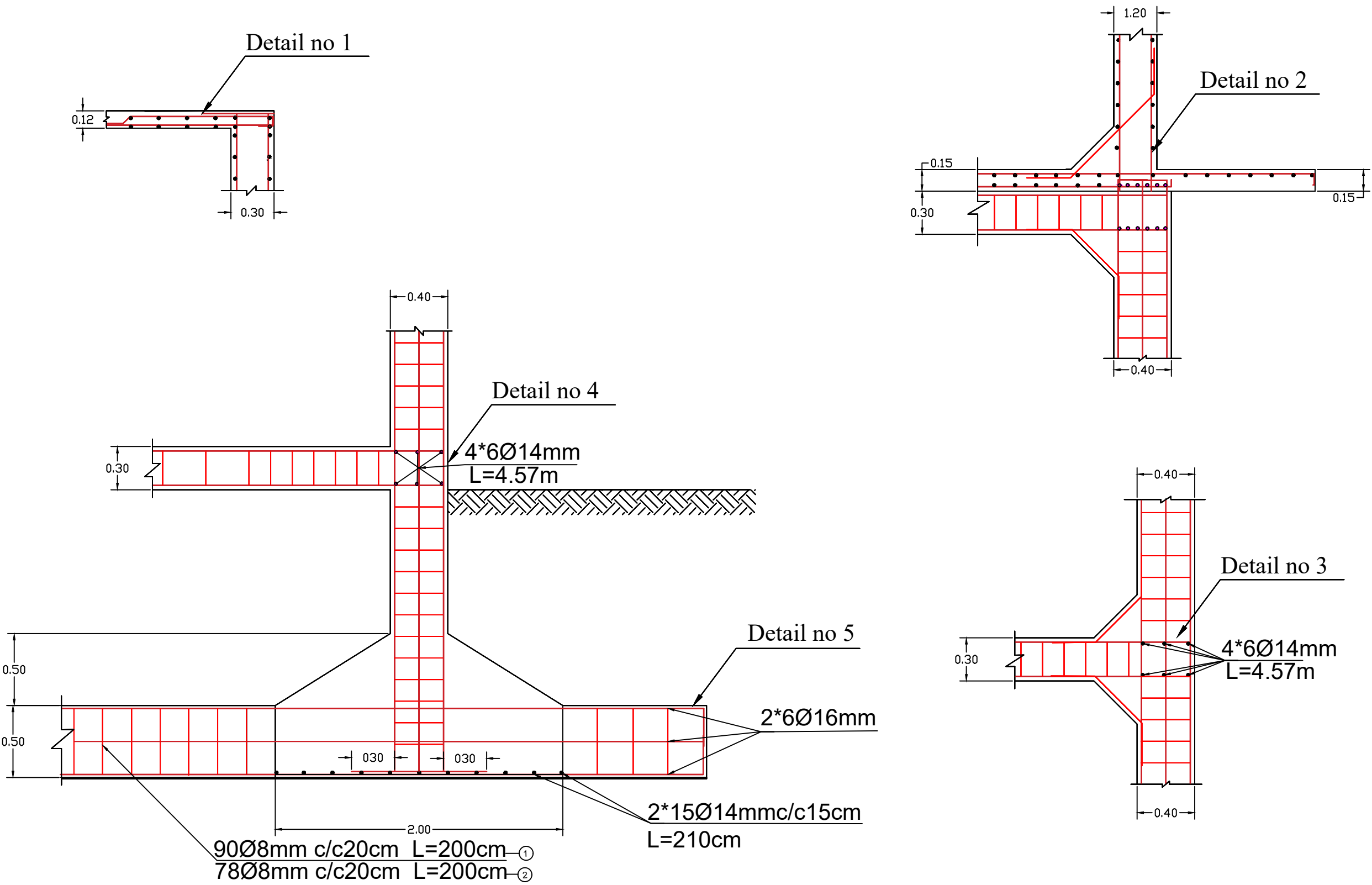
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1			Structural.D. by
2			Drawn by
3			Approved by

MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

Scale	1 : 100	No. 01/01	Province	
Date	25 09 17		District	
Drawing No.	ST-01		Village	

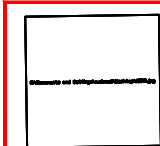
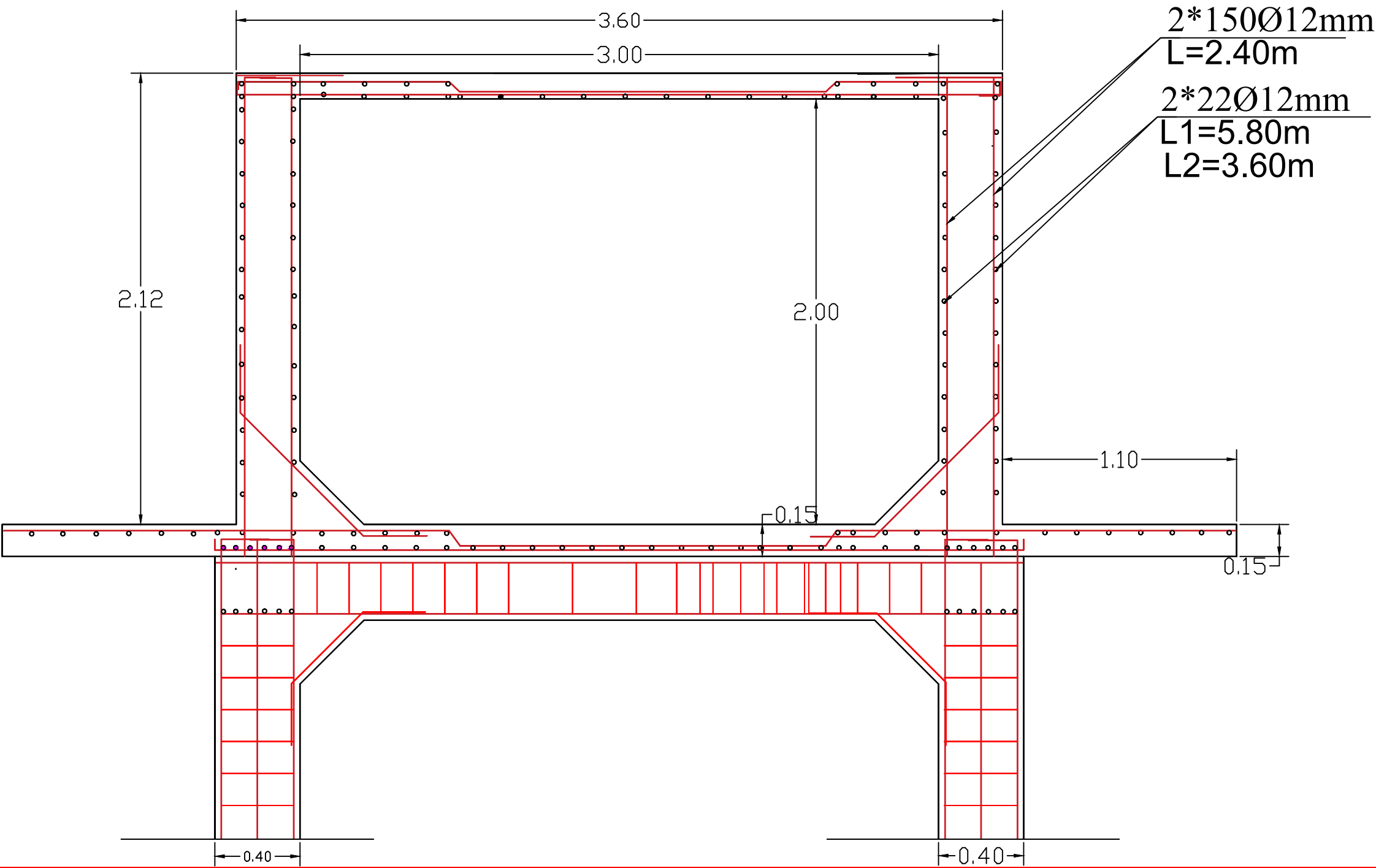
Project name: RCC elevated Water reservoir 30.0 m3

REINFORCEMENT WITH DETAILS



	No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN OFFICE : PROGRAM:WATER SUPPLY ENGINEERING DEPARTMENT	Scale	1 : 100	S No 01 Province	
	1			Structural.D. by		Date	25 09 17		
	2			Drawn by					

RESERVOIR REINFORCEMENT DETAILS



No	Date	Revision	Survey by	
1			Structural.D. by	
2			Drawn by	
3			Approved by	

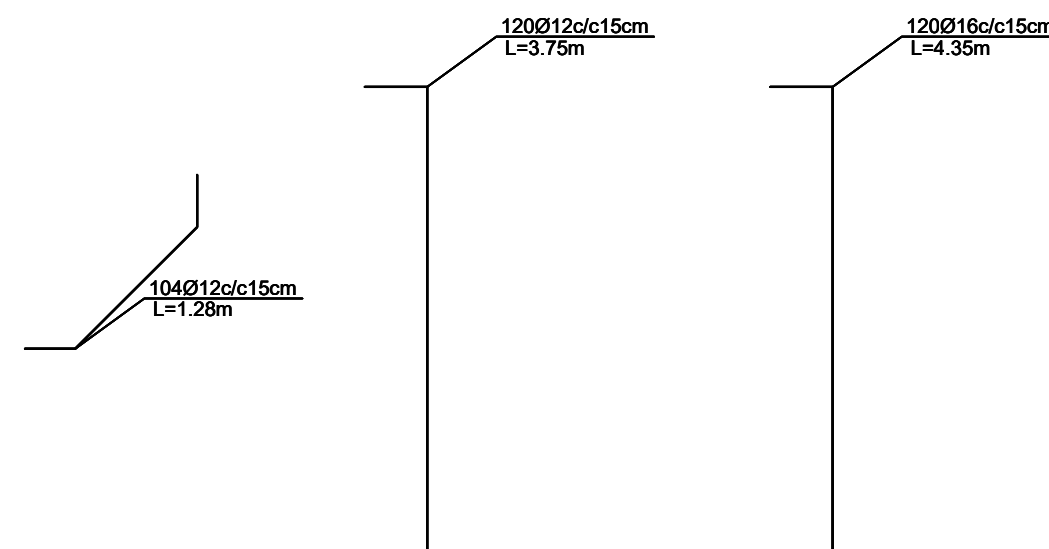
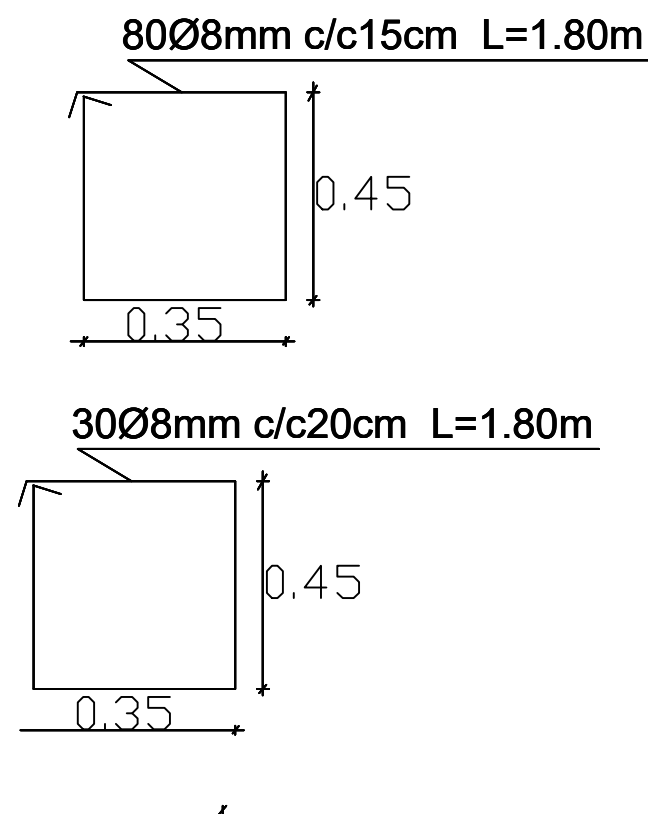
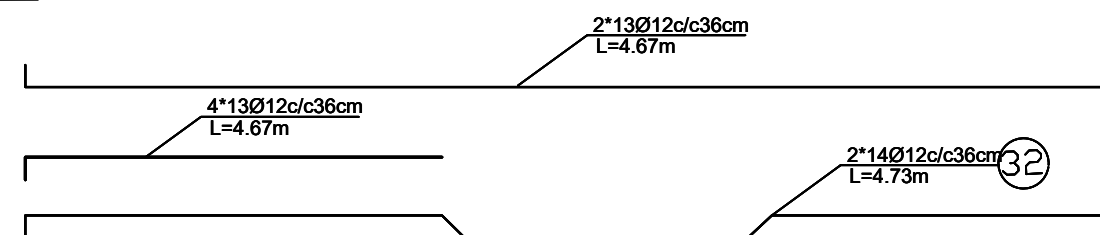
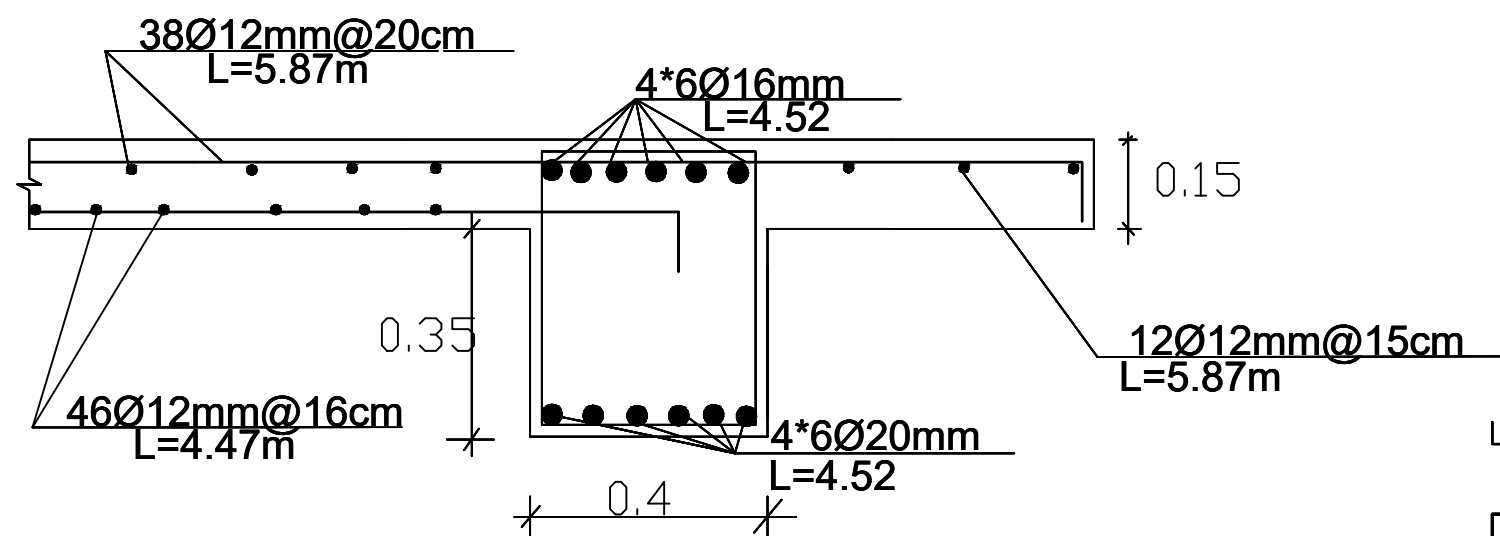
MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

Scale
Date
Drawing No.

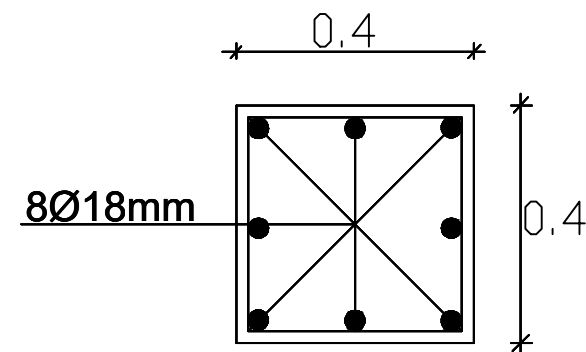
1 : 100
25 09 17
ST-01
District
Village

Project name: RCC elevated
Water reservoir 30.0 m3
Drawing Title: Plan & sections

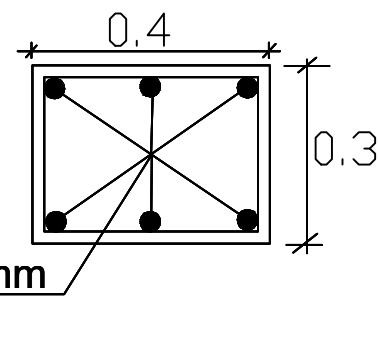
Reinforcement details for detail no 2



	No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN OFFICE : PROGRAM:WATER SUPPLY ENGINEERING DEPARTMENT	Scale	1 : 100		Project name: RCC elevated Water reservoir 30.0 m3 Drawing Title: Plan & sections
	1			Structural.D. by		Date	25 09 17		
	2			Drawn by		Drawing No.	ST-01		
	3			Approved by					

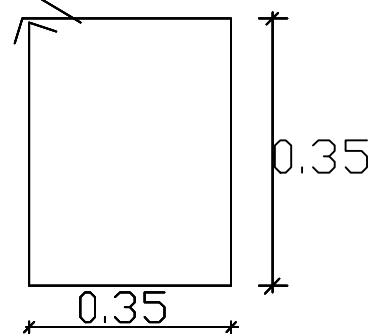


Section details for
Columns

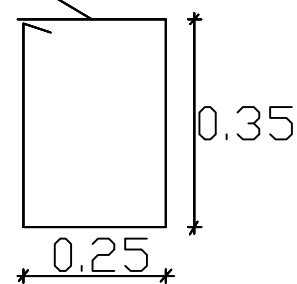


Section details for
Beams

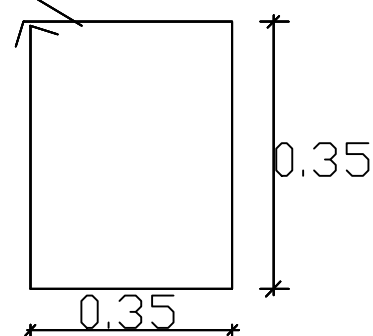
4*45 Ø8mm c/c15cm L=1.6m



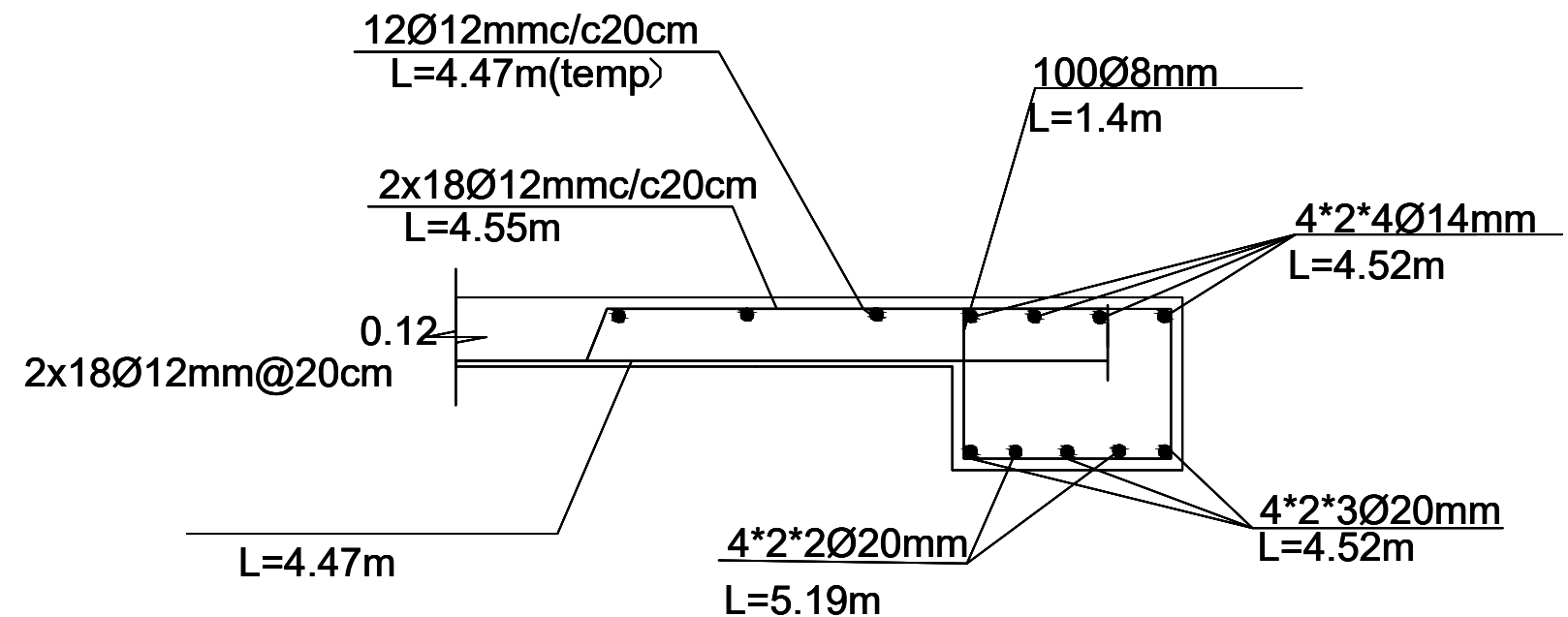
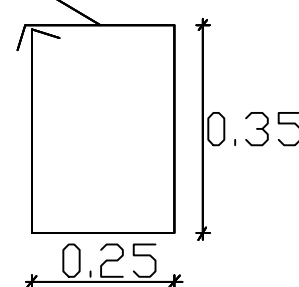
80Ø8mm c/c15cm L=1.4m



4*14Ø 8mm c/c25cm L=1.6m



30Ø8mm c/c20cm



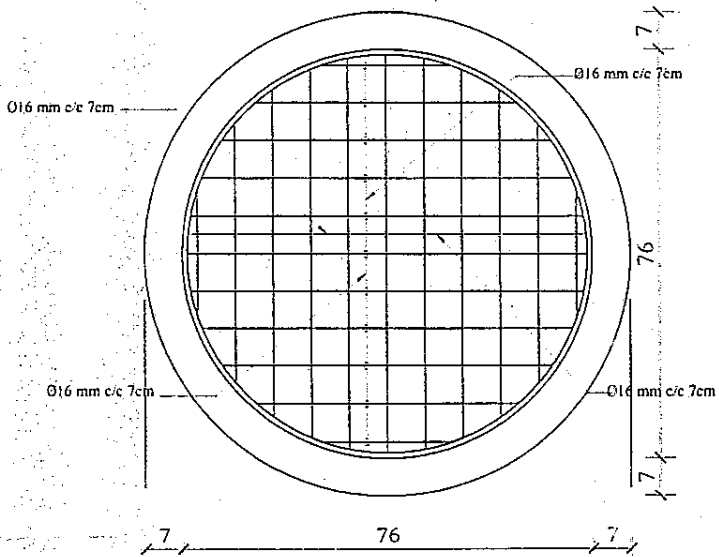
No	Date	Revision	Survey by
1			Structural.D. by
2			Drawn by
3			Approved by

MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

Scale
Date
Drawing No.

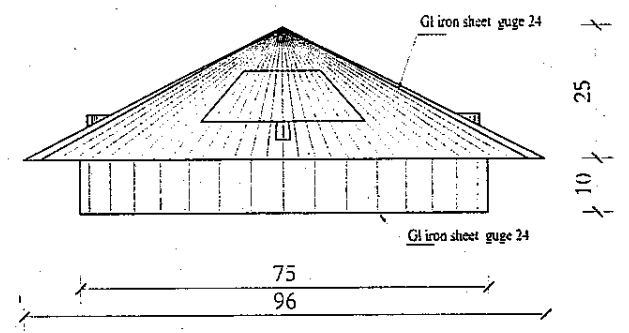
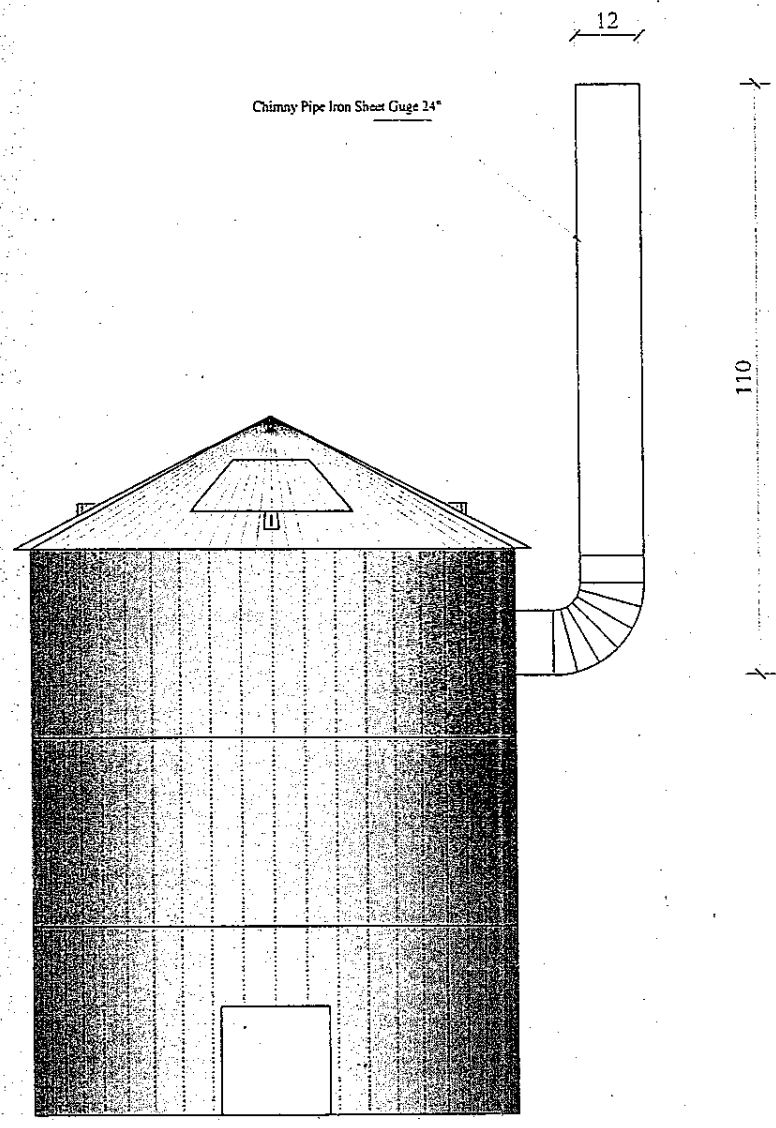
1 : 100
25 09 17
ST-01
District

Project name: RCC elevated
Water reservoir 30.0 m³
Drawing Title: Plan & sections

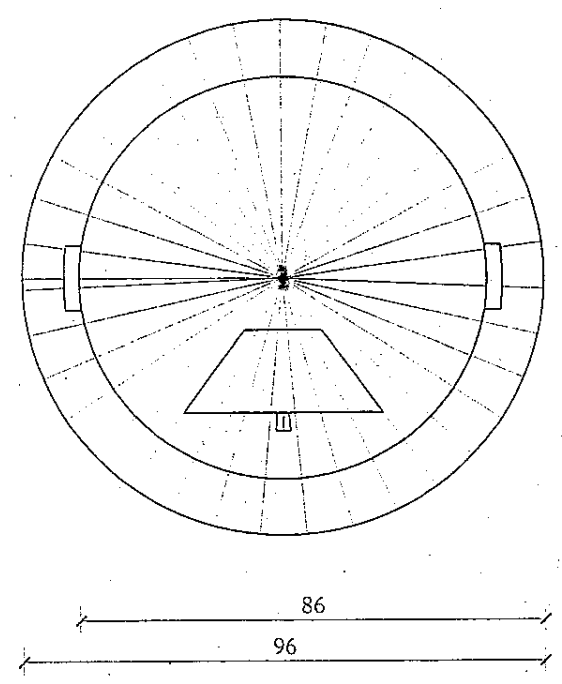


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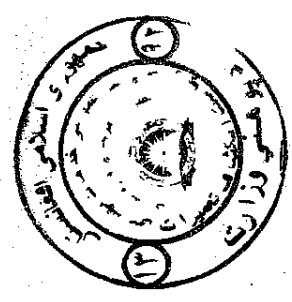
BASKET PRICE 3000 AFGHANIS. (1)



View of Iron Sheet Cover gage 24"



Plan of Iron Sheet Cover gage 24"



MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION	STANDARD SCHOOL DESIGN IN AFGHANISTAN	ARCHITECT DESIGN ENGINEER NAME PROJECT NO.	ARCHITECTURE PROJECT NAME DRAWING TITLE	PCC GARBAGE Ø 90 CM View & detail
		CHECKED BY ENGINEER NAME DATE	SHEET NO. 2/2	