

# MINISTRY OF EDUCATION

## MoE / Documents

Department of Construction / Technical Services

Documents

16 Class Rooms Ragi Kalacha Secondary School

Location:

Ragi Kalacha, Kandahar City

ARCHITECTURE

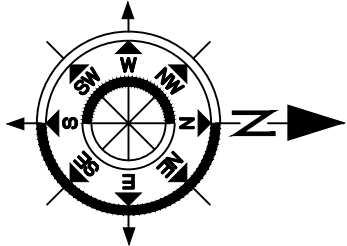
&

ENGINEERING

DESIGN

Ragi Kalacha Secondary School Site Plan including Total Covered Area, Boundary Wall Length, Approved Sketch and site Pictures

S 1:100



Total Covered Area = 2770 Sq.m = 1.38 Jerb

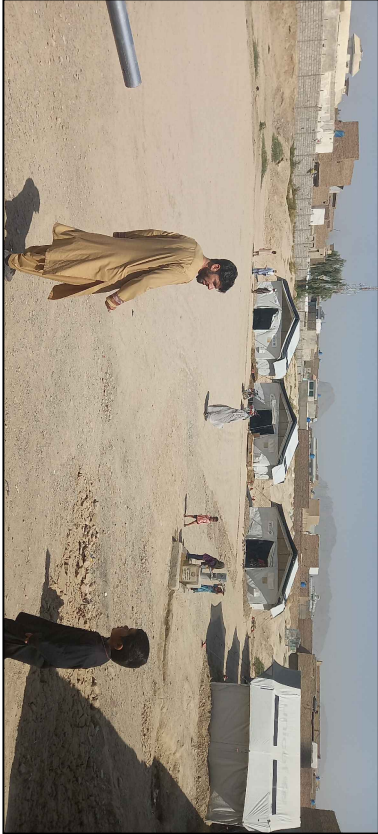
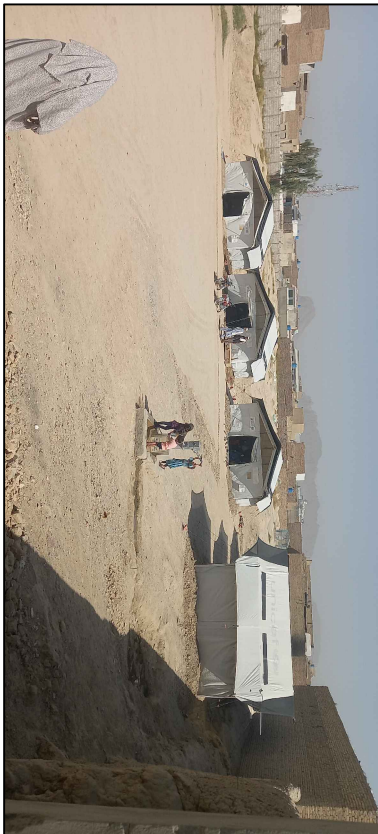
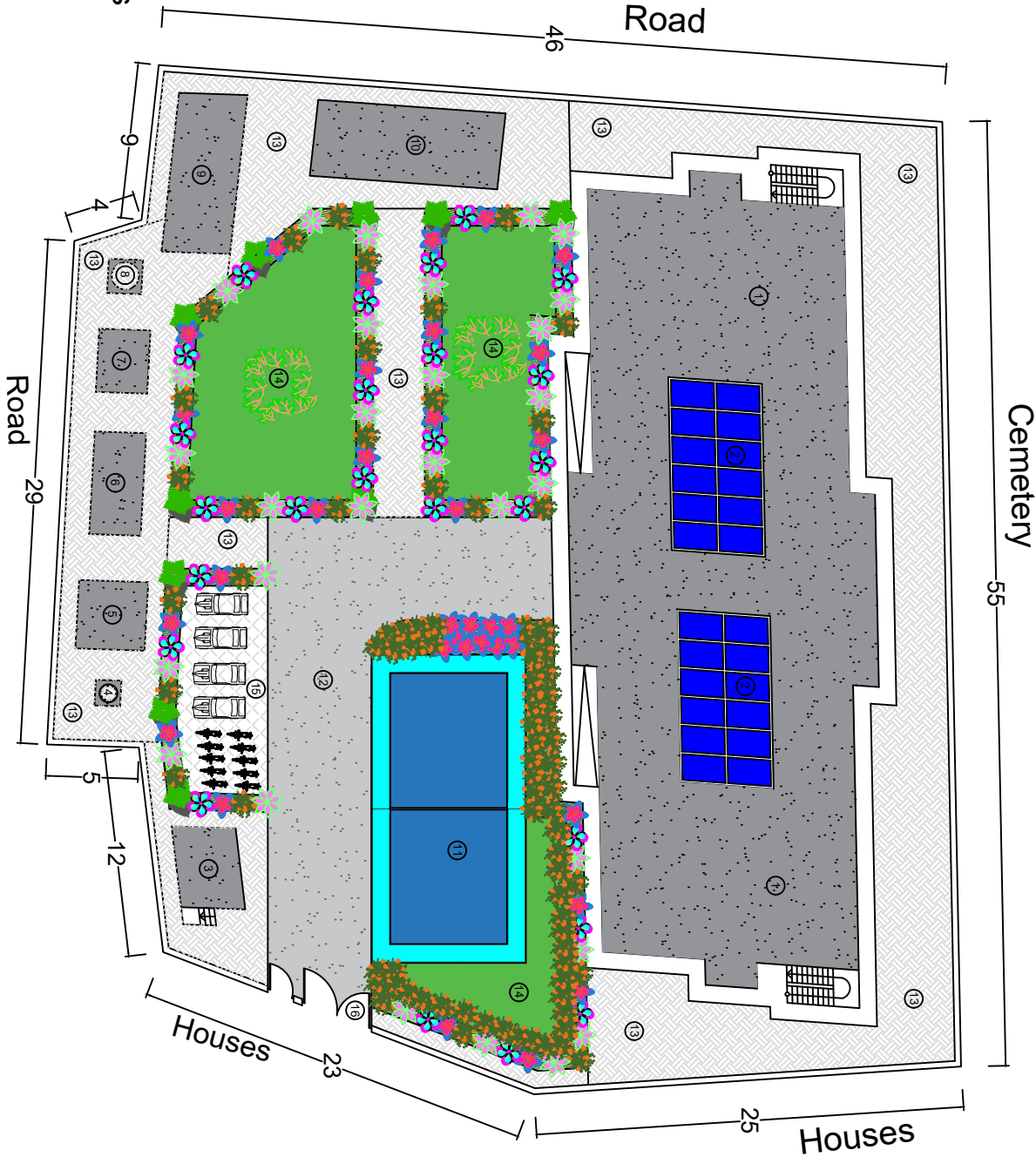
Total Boundary Wall Length = 208 M

Ragi Kalacha 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 Water Elevate Tank.
- 7 - Construction of Generator Room.
- 8 - Construction of Garbage Collection Point.
- 9 - Construction of Septic Tank.
- 10 - Construction of 6 Pcs Toilets.
- 11 - Construction of Volley Ball Play Ground.
- 12 - Construction of Car Way.
- 13 - Construction of Side Walk and Walk way.
- 14 - Construction of Green Area.
- 15 - Construction of Parking.
- 16 - Installation of Small and Large steel Gates

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.

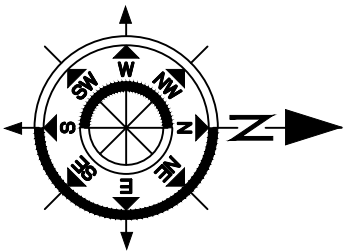


			
Project code	Kandahar - 000 - 000		
Project	New Construction of Ragi Kalacha High School Including Wash and Other Facilities		
Drawing Title	Ragi Kalacha High School Site Plan		
Project Location	PD#15, Kandahar City, Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name Engr. I Danish	Engr. I Danish	Engr. Amir M	
Sign			
Date			



Ragi Kalacha secondary School Site Plan including Total Covered Area, Boundary Wall Length, All Structures Dimensions, Electrical, Plumbing and Sewer Line System

S 1:100

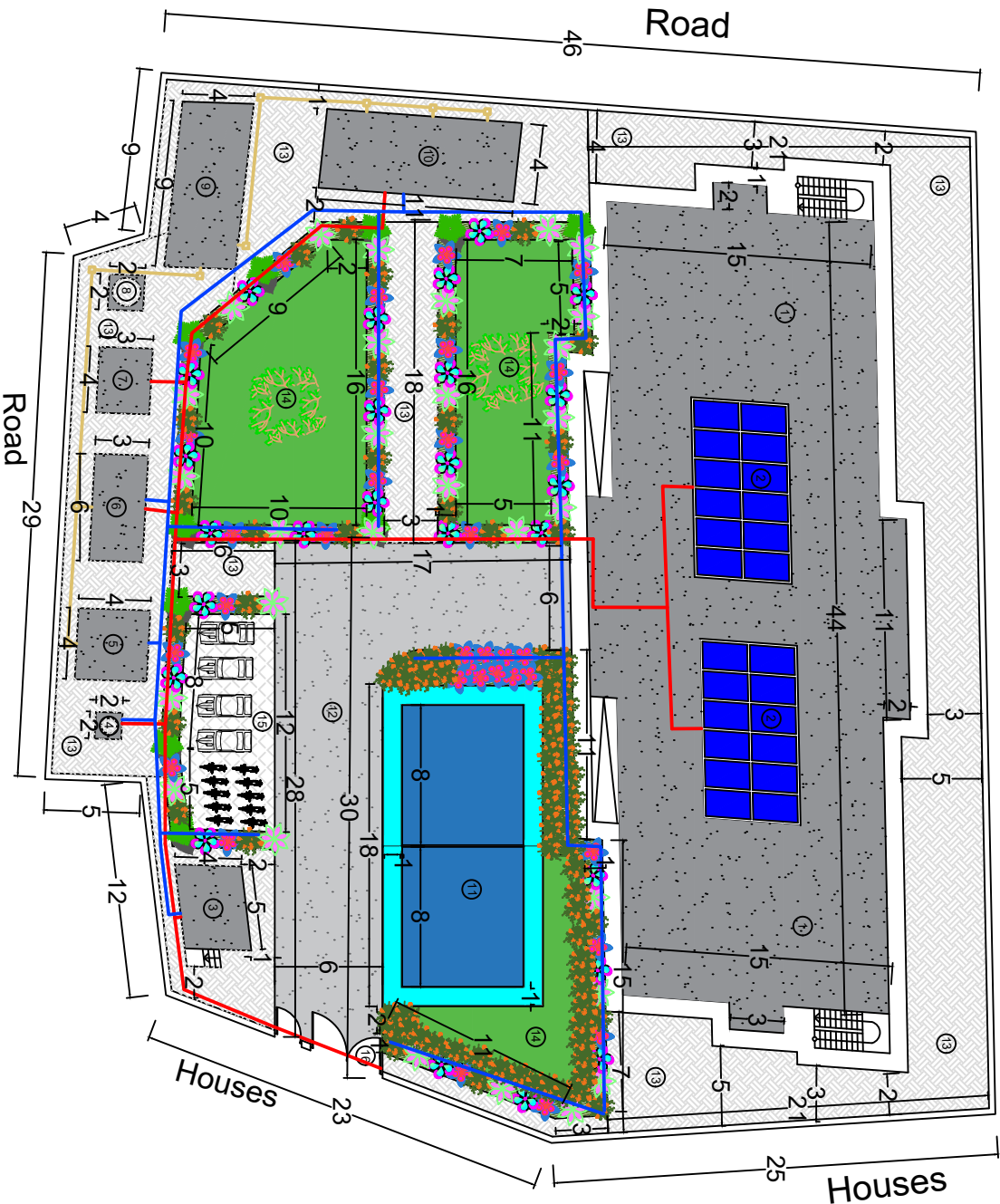


Total Covered Area = 2770 Sq.m = 1.38 Jerb

Total Boundary Wall Length = 208 M

Cemetery

55



Ragi Kalacha 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 Water Elevate Tank.
- 7 - Construction of Generator Room.
- 8 - Construction of Garbage Collection Point.
- 9 - Construction of Septic Tank.
- 10 - Construction of 6 Pcs Toilets.
- 11 - Construction of Volley Ball Play Ground.
- 12 - Construction of Car Way.
- 13 - Construction of Side Walk and Walk way.
- 14 - Construction of Green Area.
- 15 - Construction of Parking.
- 16 - Installation of Small and Large steel Gates

Observation Of Plumbing, Sewerage and Electrical System in Bawri High School 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 88 M
- 2 The Green Colors Line Shows the Plumbing System From Bore well to Water Elevate Tank and Other Portions.  
Total plumbing pipe length 136 M
- 3 The Grey Colors Line Shows the Sewerage System From 6Pcs Toilets to Septic Tank.  
Total Sewerage pipe length 50 M

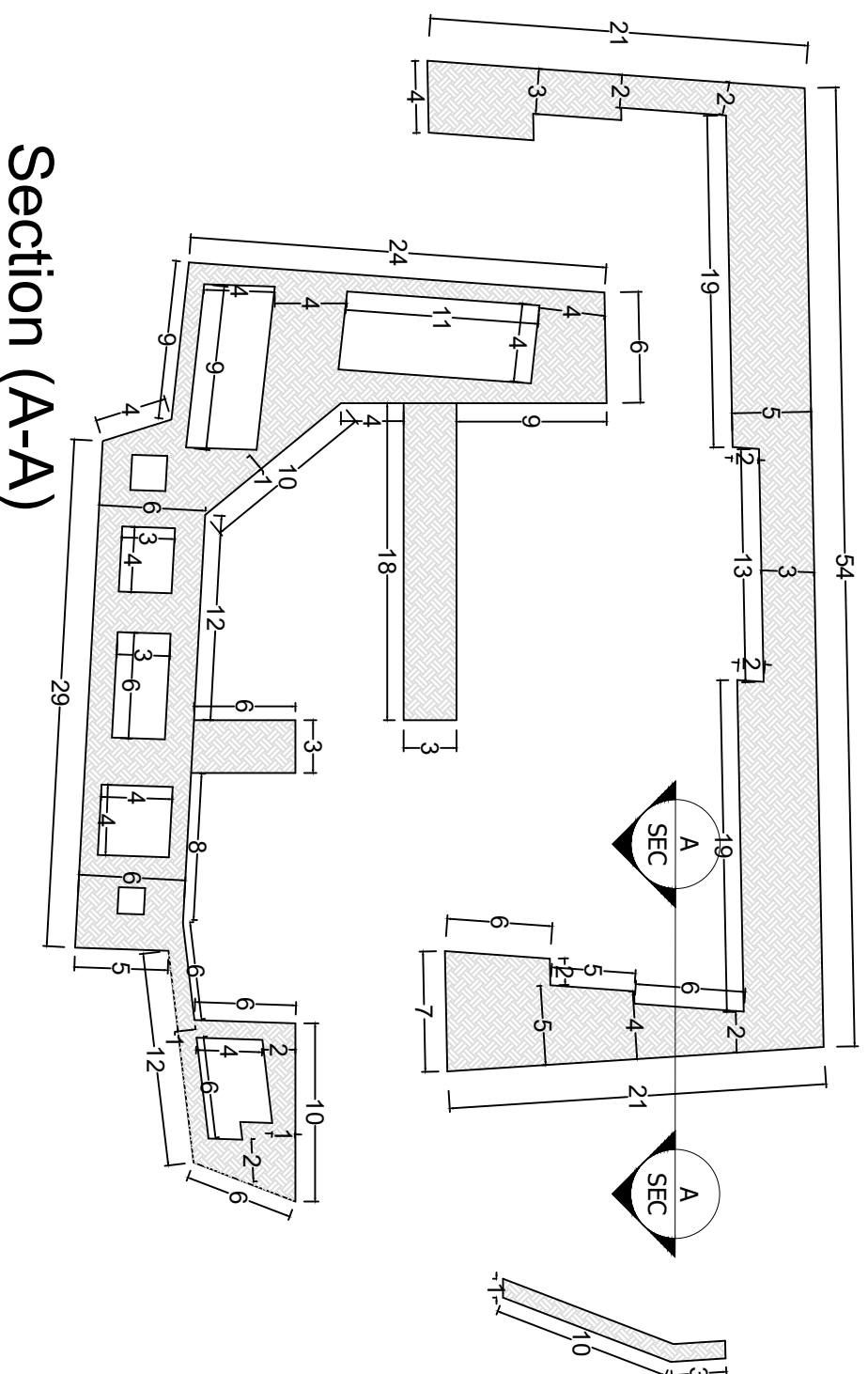
Note:

- 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.

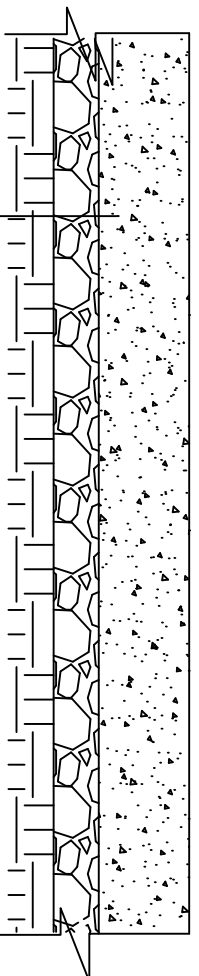
 <b>UNHCR</b>   Afghanistan <b>Education Construction Project</b>			
Project code	Kandahar - 000 - 000		
Project	New Construction of Ragi Kalacha High School Including Wash and Other Facilities		
Drawing Title	Ragi Kalacha High School Site Plan including Electrical, Plumbing and Sewer Line System		
Project Location	PD#15, Kandahar City, Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name Engr. I Danish	Engr. I Danish	Engr. Amir M	
Sign			
Date			

# Ragi Kalacha secondary School Side Walk, Walk Way and Car Way Sections With Details

# Plan of Side Walk and Walk way



# Section (A-A)



PCC M: 200 = 100mm

**Compacted Gravel = 50mm**

## Compacted Soil

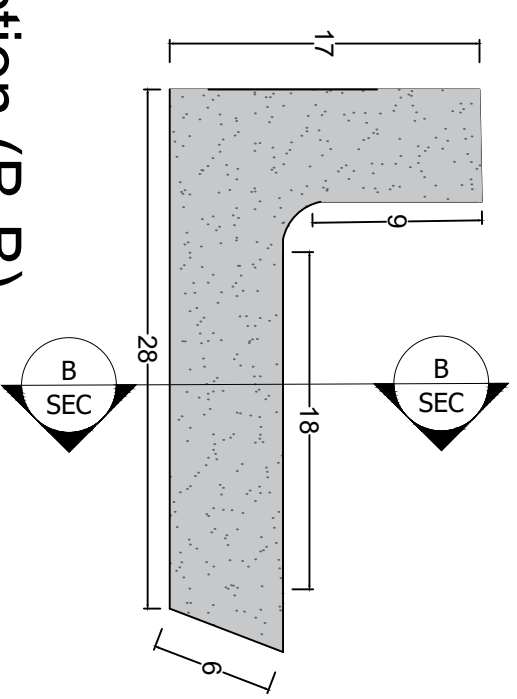
Total Area = 847 Sq.m

Total site leveling = 847 Sq. m

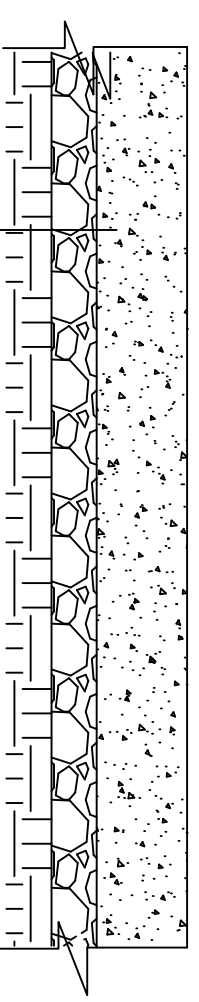
Total PCC = 84.7 Cu. m

Total Graveling = 42.35 Cu. m

# Plan of Car Way



## Section (B-B)



PCC M: 200 = 100mm

Compacted Gravel = 50mm


## Compacted Soil

Total Area = 239 Sq.m

Total site leveling = 239 Sq. m

Total PCC = 23.9 Cu. m

Total Graveling = 11.95 Cu. m

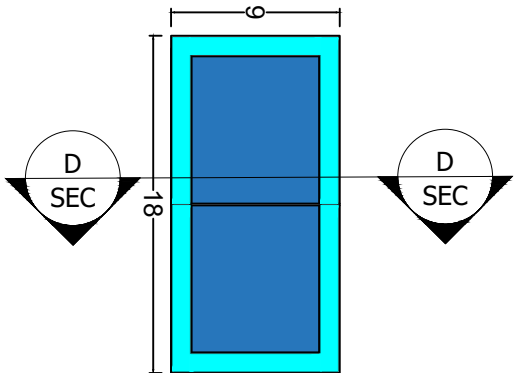
<div><b>UNHCR</b> The UN Refugee Agency</div> <div>Afghanistan</div> <div>Education Construction Project</div>			
Project code	Kandahar - 000 - 000		
Project	New Construction of Ragi Kalacha High School Including Wash and Other Facilities		
Drawing Title	Ragi Kalacha High School Site Walk, Walk Way and Car Way Sections With Details		
Project Location	PD#15, Kandahar City, Afghanistan		
Drawn By:		Designed By:	Checked By:
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			



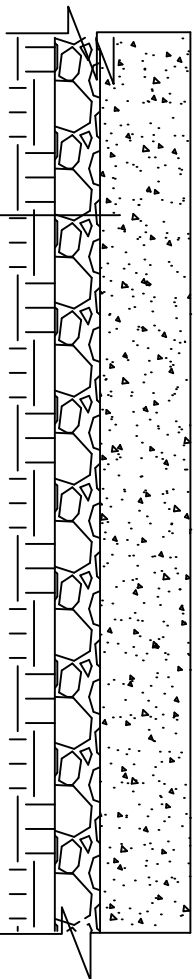
Ragi Kalacha secondary School Volley Ball Play Ground and Parking Sections With Details

S 1:100

Plan of Volley Ball Play Ground

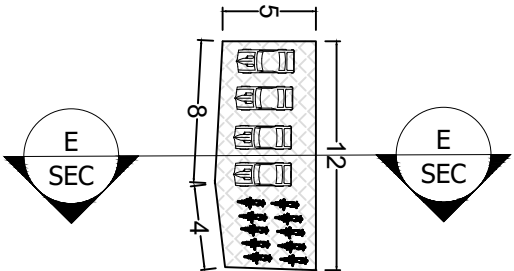


Section (D-D)

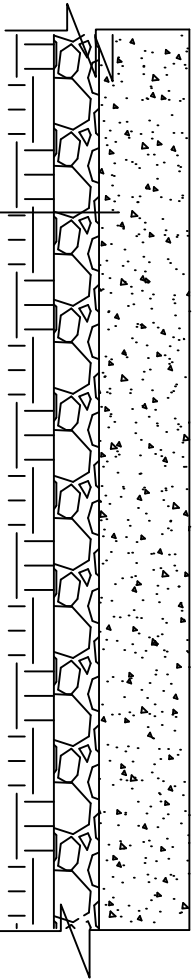


- PCC M: 200 = 100mm
- Compacted Gravel = 50mm
- Compacted Soil

Plan of Parking




Section (E-E)



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

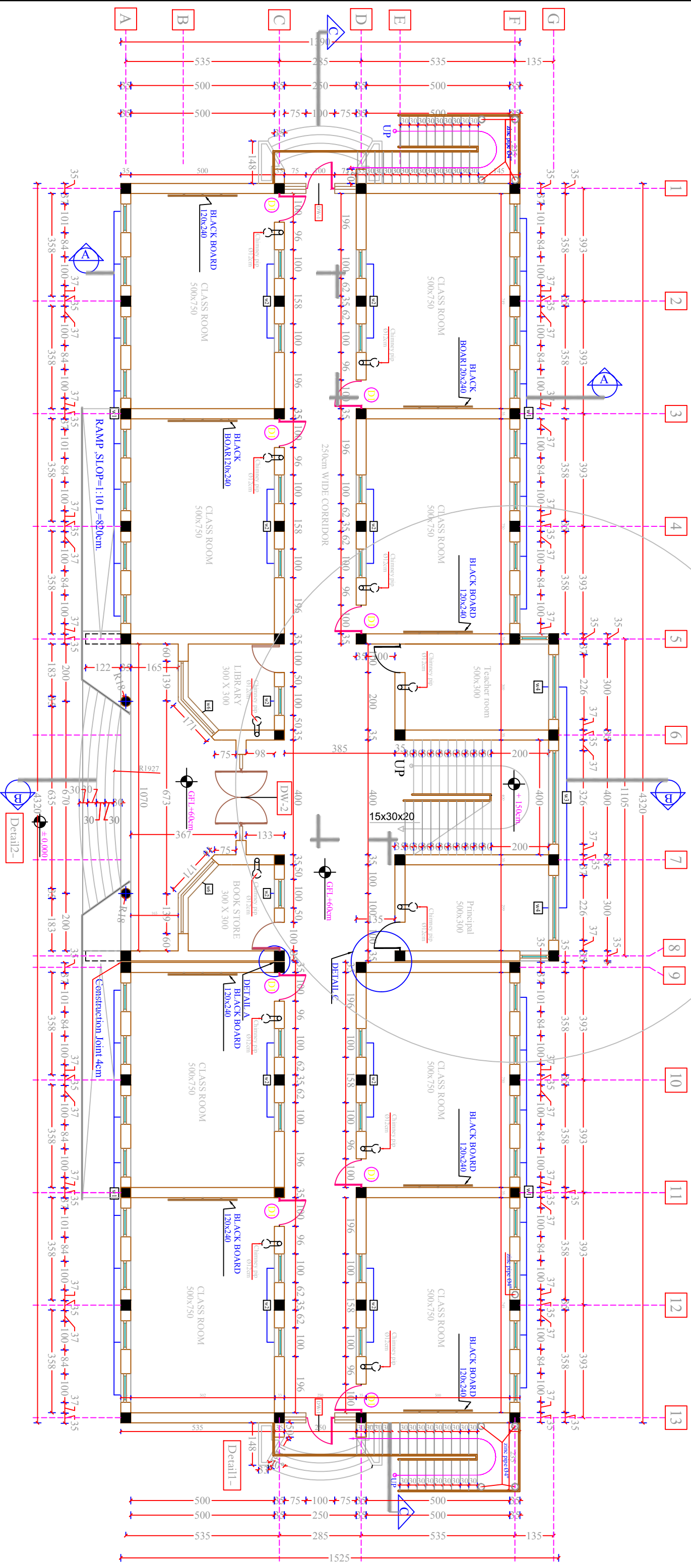
- Total Area = 63 Sq.m
- Total site leveling = 63 Sq. m
- Total PCC = 6.3 Cu. m
- Total Graveling = 3.15 Cu. m

- 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

<div><div><div>UNHCR</div>The UN Refugee Agency</div><div>   Afghanistan</div><div>Education Construction Project</div></div>			
Project code	Kandahar - 000 - 000		
Project	New Construction of Ragi Kalacha High School Including Wash and Other Facilities		
Drawing Title	Ragi Kalacha High School Volley Ball Play Ground and Parking Section with Details		
Project Location	PD#15, Kandahar City, Afghanistan		
Drawn By:		Designed By:	Checked By:
Name		Engr. I Danish	Engr. I Danish
Sign			
Date			



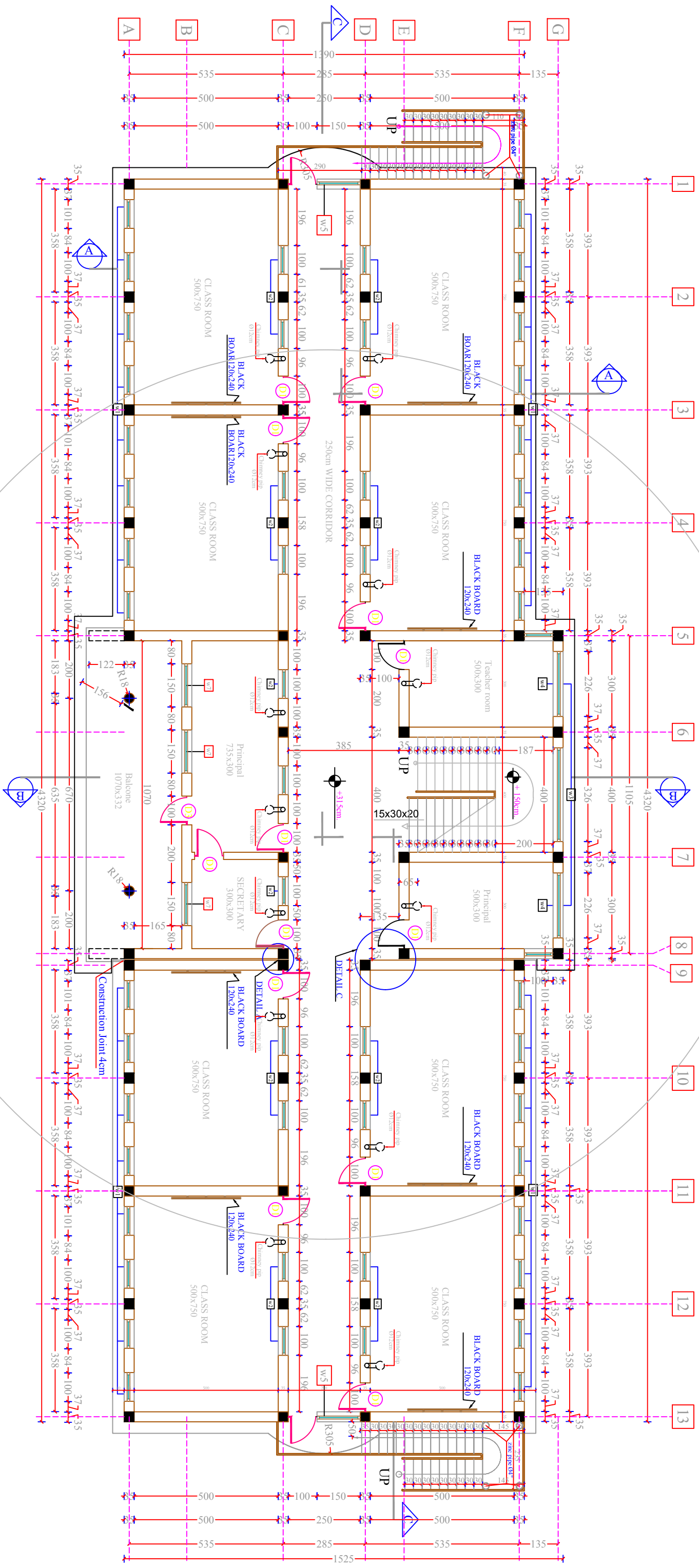




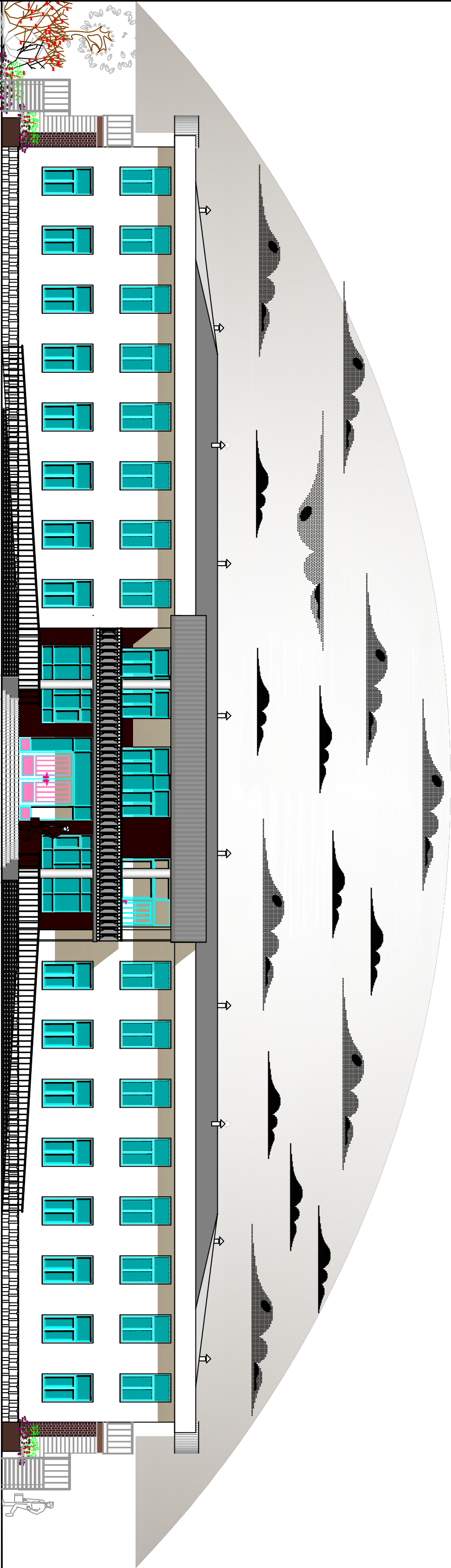
GROUND FLOOR PLAN

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RCC/DESIGN	ALT.FEROZ TAHIRY	APPROVED/Doc/Date	ENG.MOHYONUS YOUSSEFZAI	DRAWING No	PROJECT NAME 16 CLASS ROOM SCHOOL METAL SHEET ROOF
				TECH-APPROVED BY	ENG.AB.MATIN MAQOOL	SCALE	AS SHOWN (A3)	SHEET No	
						DATE	25.6.2006	1 48	DRAWING TTITLE GROUND FLOOR PLAN

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN		AH, FERROZ TAHIRY	APPROVED/Doc/Moe	ENG. MOHYONUS YOUSSEZAI	DRAWING No	PROJECT NAME		16 CLASS ROOM SCHOOL METAL SHEET ROOF
				RCC/DESIGN		ENG. FATIMA	SCALE	AS SHOWN (A3)		DRAWING TITLE		FIRST FLOOR PLAN
				TECH-APPROVED BY		ENG. AB. MATIN MAQOOL	DATE	25.6.2006	SHEET No			
									2 48			







FRONT ELEVATION

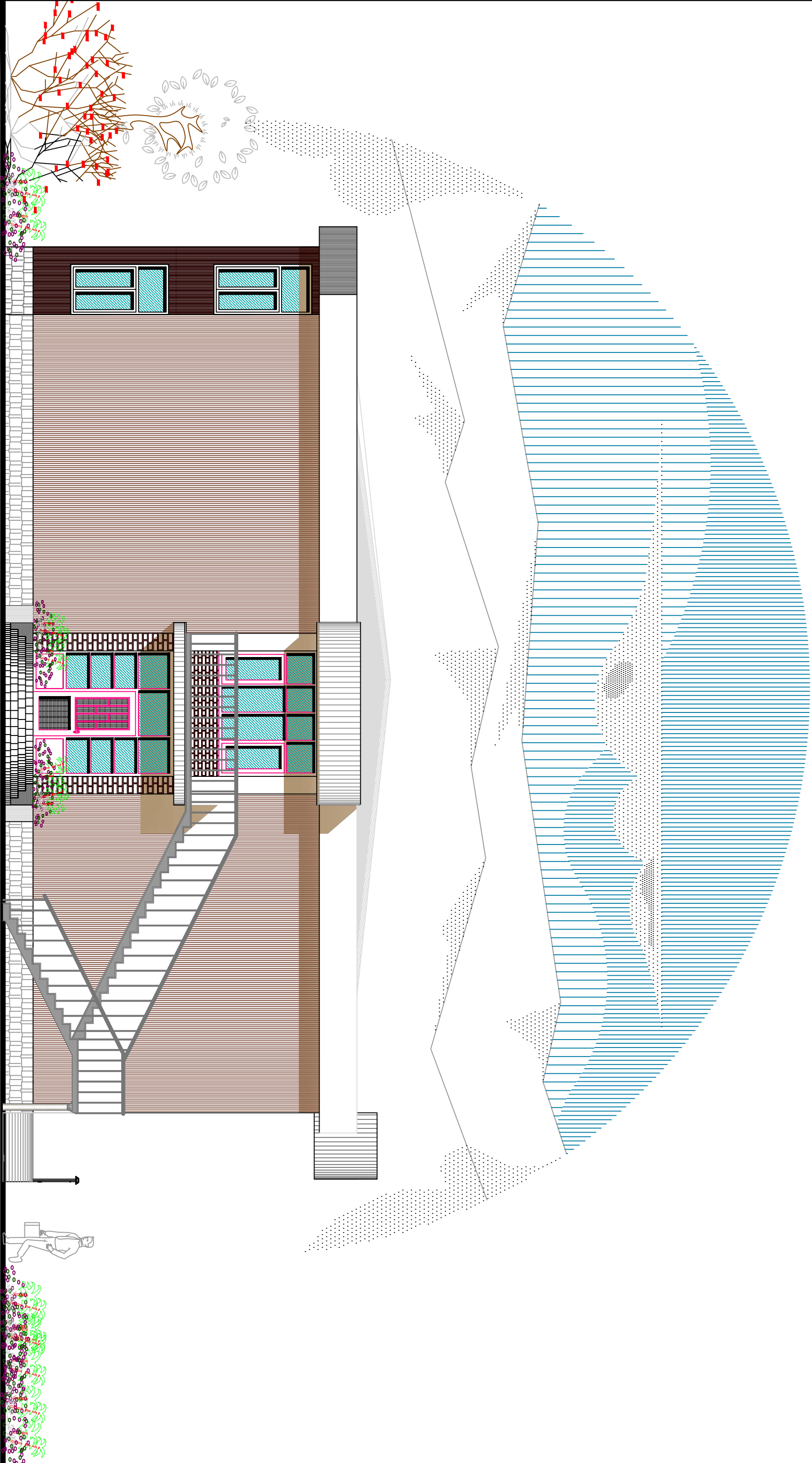
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN	APPROVED/Dec/Nov	DRAWING No	PROJECT NAME	16CLASS ROOM SCHOOL METAL SHEET ROOF
				RCC/DESIGN	ENG.FATIMA			
				TECH. APPROVED BY	DATE	SHEET No	DRAWING TITLE	
				ENG.AB.MATIN MAQOL	25.6.2006			
							FRONT ELEVATION	



BACK ELEVATION

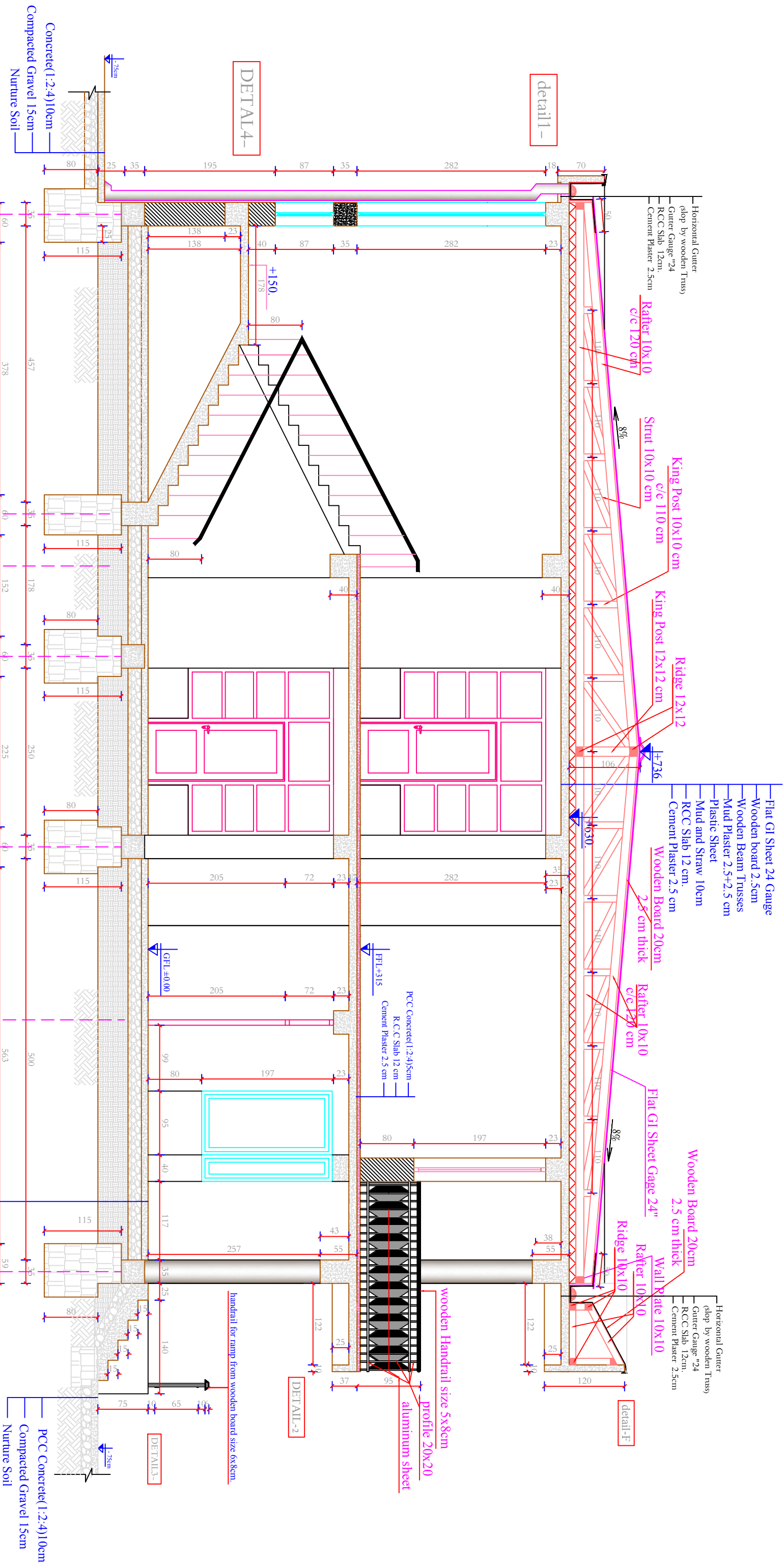
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RC/C/DESIGN		APPROVED/Dec/Mec		PROJECT NAME	
				AH.FEROZ TAHIRY		ENG.MOHYONIS YOUSFZAI		16CLASS ROOM SCHOOL METAL SHEET ROOF.	
				ENG.FATIMA		AS SHOWN (A3)		DRAWING TTILE	
				ENG.AB.MATIN MAQOL		SHEET No		BACK ELEVATION	
				DATE		25.6.2006			





SIDE ELEVATION

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN	ENGINEER/DESIGN	APPROVED/DATE	DRAWING No		PROJECT NAME	
				RCC/DESIGN	ENGINEER/DESIGN	SCALE	AS SHOWN (A3)		16 CLASS ROOM SCHOOL, METAL SHEET ROOF.	
				TECH. APPROVED BY	ENGINEER/DESIGN	DATE	SHEET No		DRAWING TITLE	
					ENGINEER/DESIGN	25.6.2006			SIDE ELEVATION	



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

Engineering Drawing

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN  
CHECKED BY  
TCH. APPROVED BY

ZIAURAHMAN ZIA  
ENG.M. RAHEM  
ENG.AB.MATIN MAQOOL

APPROVED/DESIGNED  
SCALE  
DATE/CODE NO

ENG.AB.MOMEN "RAAD"  
AS SHOWN (A3)  
14.02.2015

DRAWING TYPE  
CODE #

ARCHITECTURAL  
06  
48

PROJECT NAME  
PROJECT TYPE AND  
DRAWING TITLE

16 CLASS ROOM SCHOOL, BURUNT BRICK, IRON SHEET ROOF  
SECTION B-B



Horizontal Gutter  
(Slop by wooden Truss)  
Gutter Gauge "24  
R.C.C. Slab 12cm.  
Cement Plaster 2.5cm

Rafter 10x10  
c/c 120 cm

King Post 10x10 cm  
c/c 110 cm  
Strut 10x10 cm  
8%

King Post 12x12 cm  
Ridge 12x12 cm

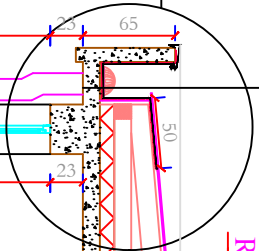
Flat GI Sheet 24 Gauge  
Wooden board 2.5cm  
Wooden Beam Trusses  
Mud Plaster 2.5+2.5 cm  
Plastic Sheet  
Mud and Straw 10cm  
RCC Slab 12 cm.  
Cement Plaster 2.5 cm

Wooden Board 20cm  
2.5 cm thick  
8%

Flat GI Sheet Gage 24"

Wall Plate 10x10

Detail D



DETAIL-1

1-75cm.

PCC Concrete(1:2:4)10cm  
Compacted Gravel 15cm  
Nurture Soil

F

D

C

A

SECTION A-A



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION



STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN	ZIAURAHMAN ZIA
CHECKED BY	ENG.M. RAHEM
TCH. APPROVED BY	ENG.AB.MATIN MAQOL

APPROVED/DESIGNED	ENG.AB.MOMEN "RAAD"
SCALE	AS SHOWN (A3)
DATE/CODE NO	14.02.2015

DRAWING TYPE	ARCHITECTURAL
CODE #	07 48

PROJECT NAME  
PROJECT TYPE AND  
DRAWING TITLE

16 CLASS ROOM SCHOOL, BURNT BRICK, IRON SHEET ROOF  
SECTION A-A





# STANDARD SCHOOL DESIGN IN AFGHANISTAN

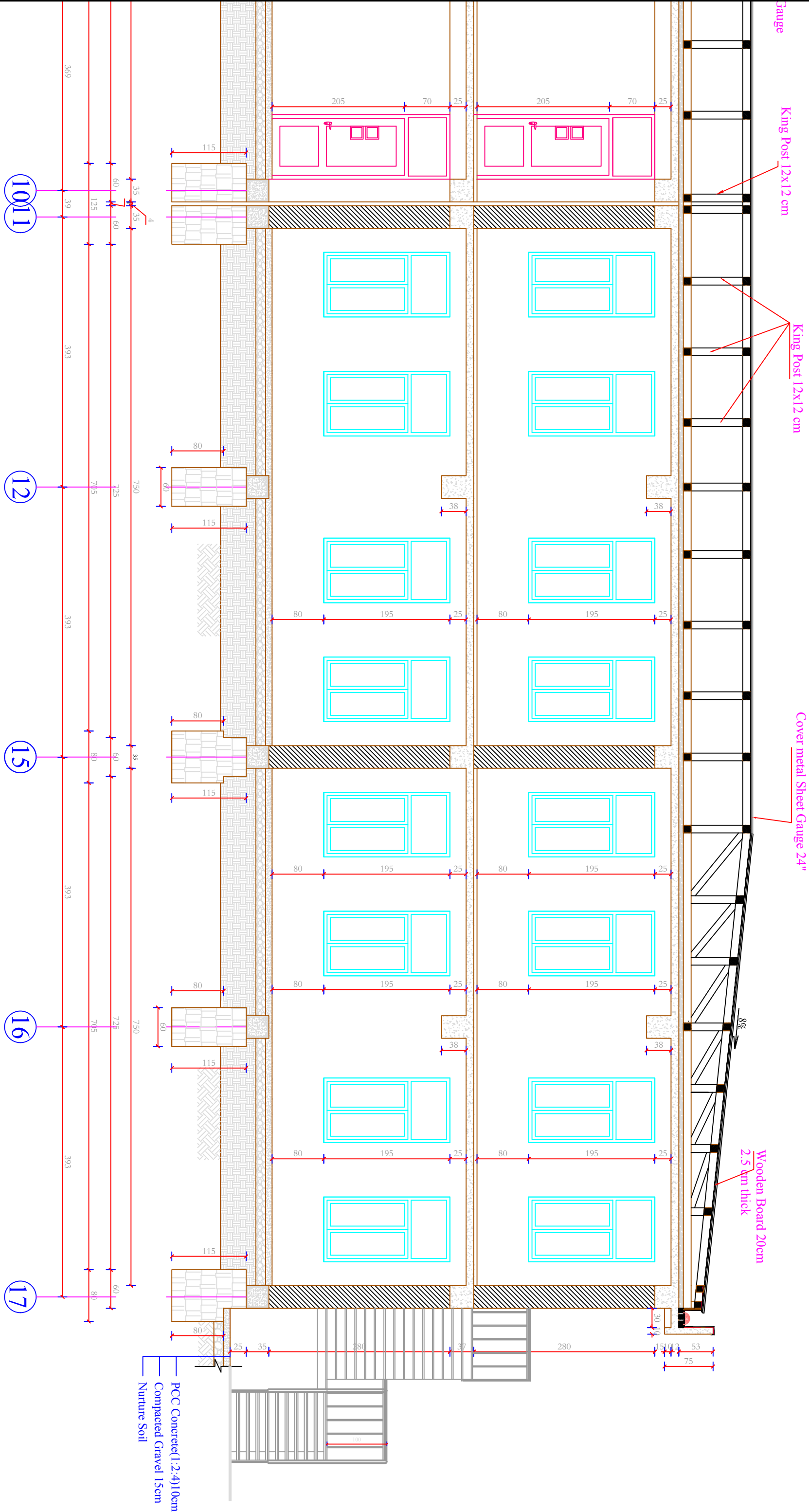
ARCHITECT/DESIGN	ZIAURAHMAN ZIA
CHECKED BY	ENG.M.RAHEM

APPROVED, Doc/Moc	ENG.AB.MOMEN "RAAD"
SCALE	AS SHOWN (A3)
DATE & CODE NO.	14.08.2022

DRAWING TYPE	ARCHITECTURAL
CODE #	

PROJECT NAME  
PROJECT TYPE AND  
DRAWING TITLE

16 CLASS ROOM SCHOOL BURNT BRICK IRON SHEET ROOF







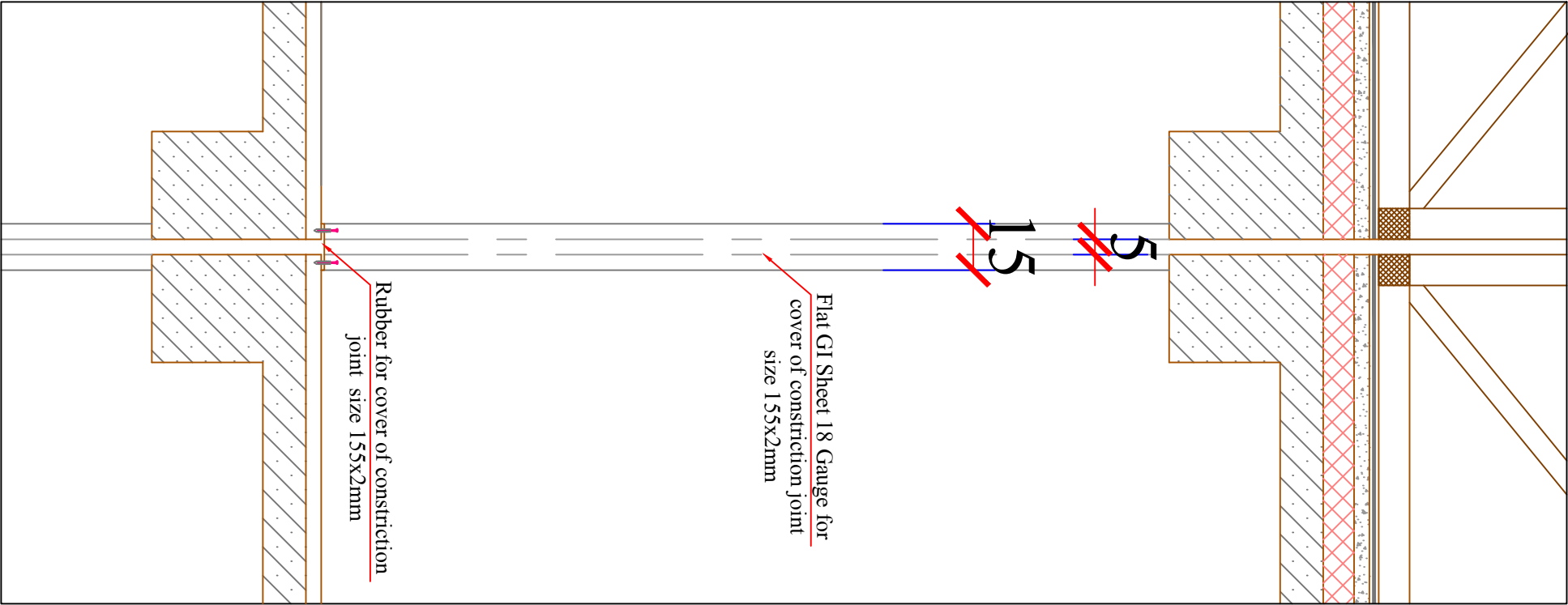
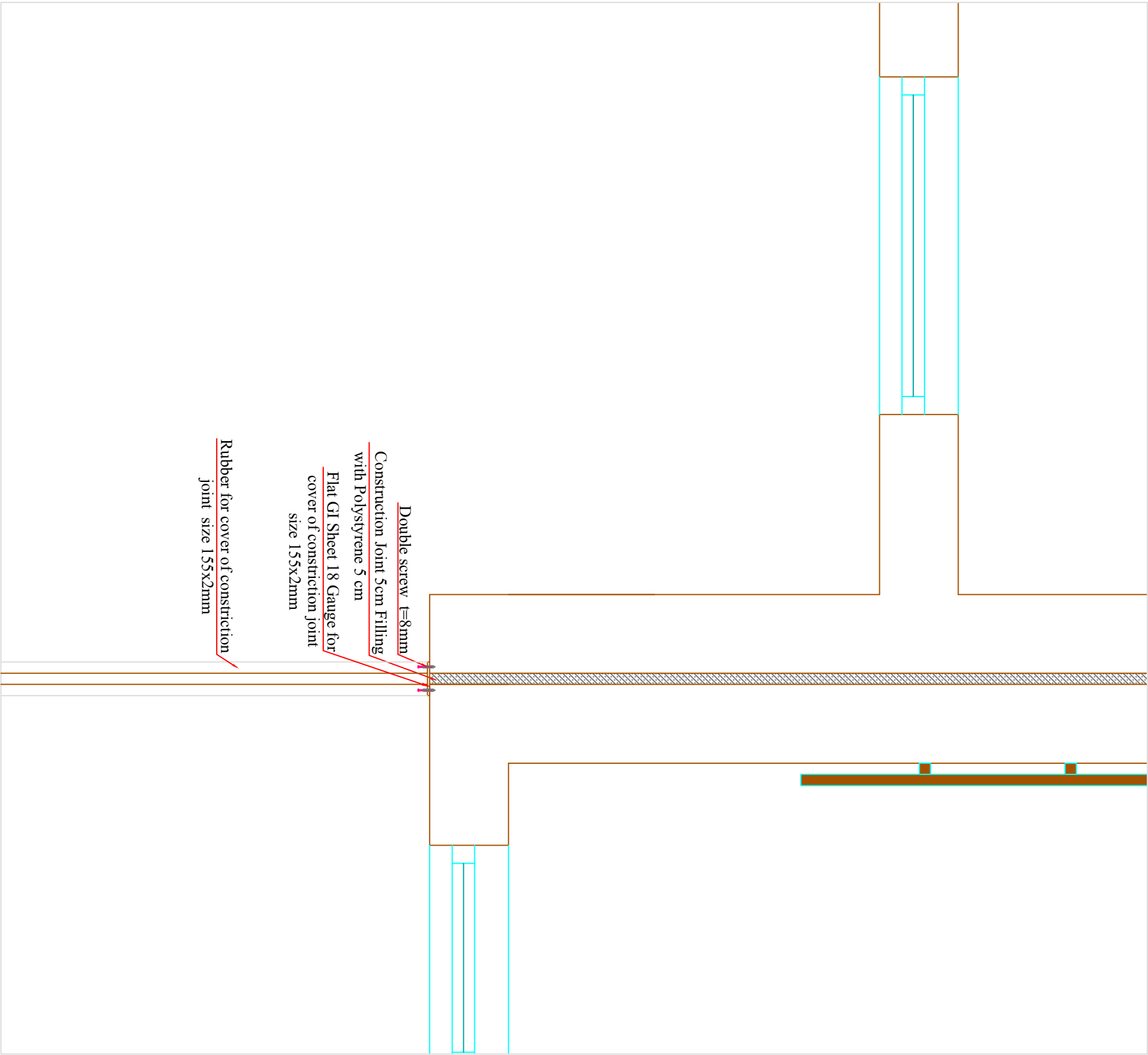


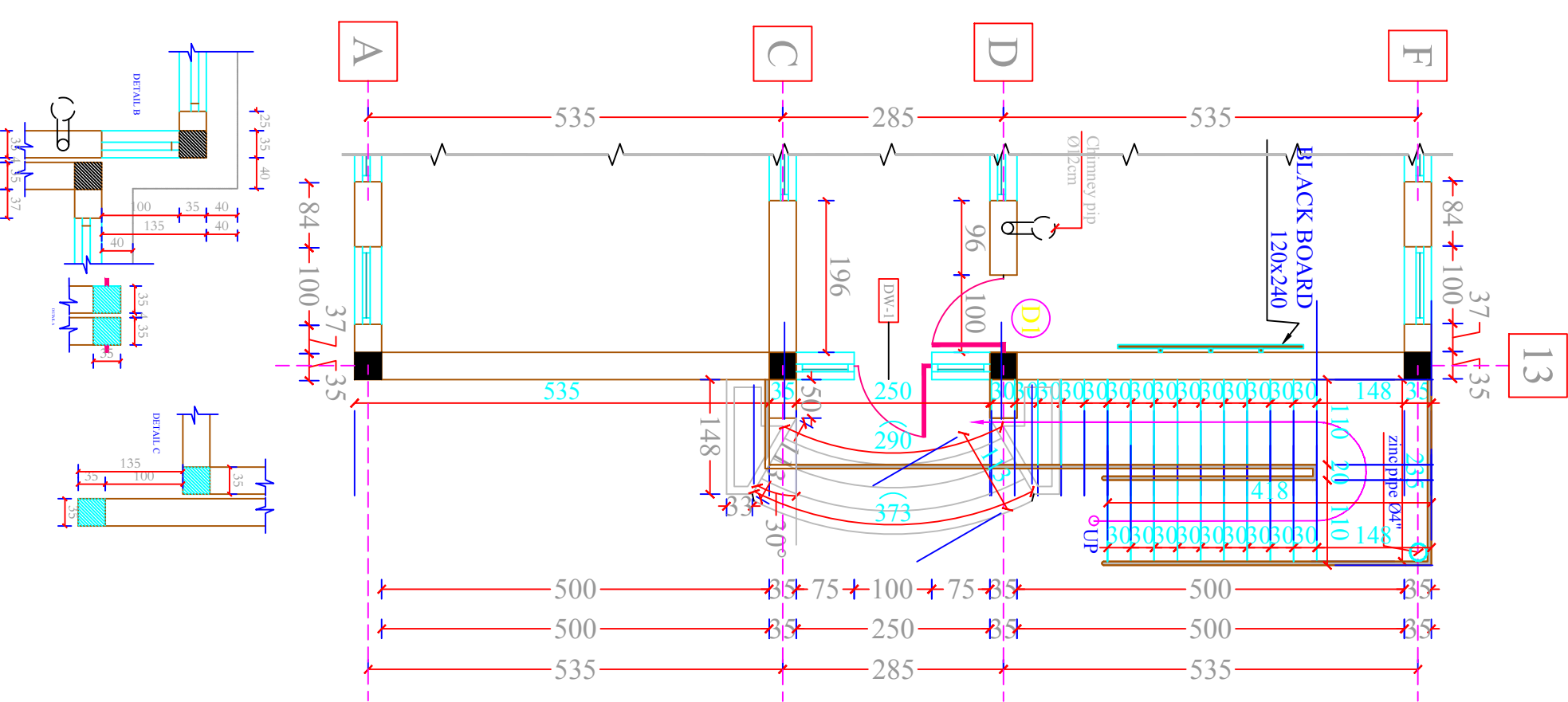
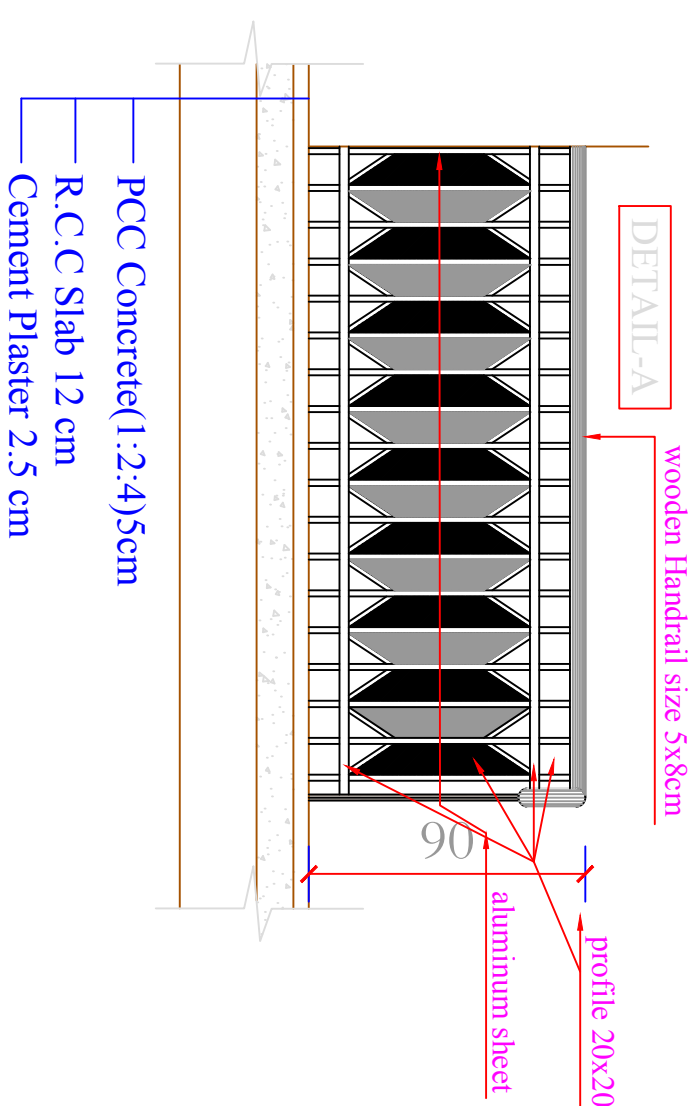
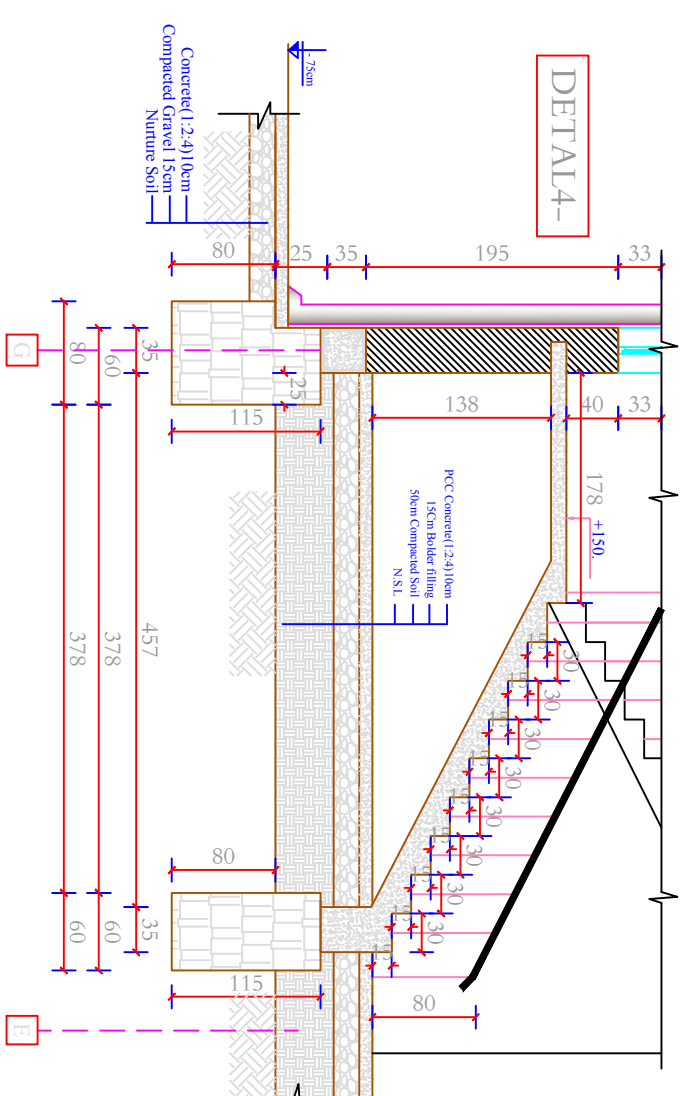
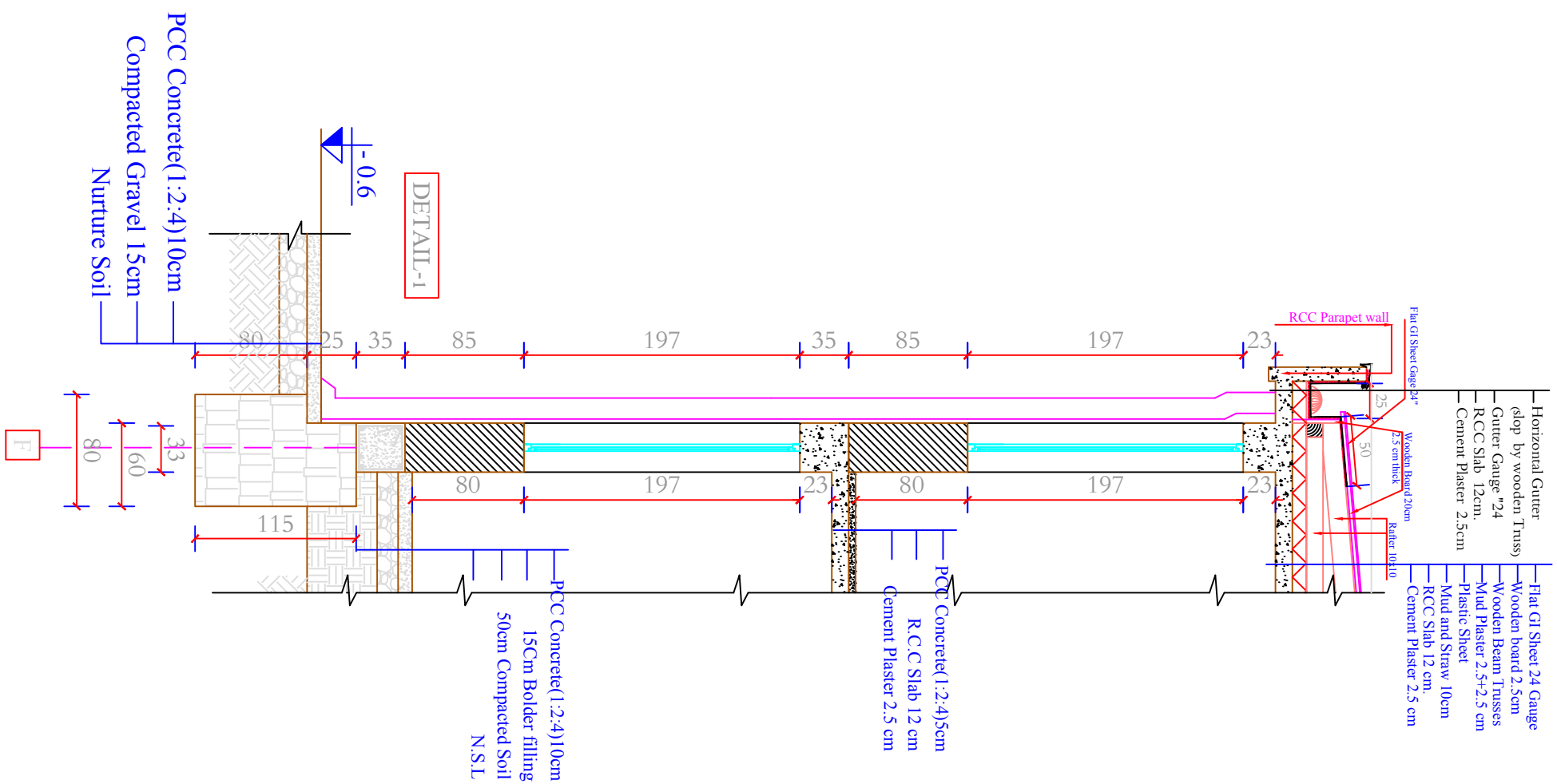
STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECT/DESIGN	ZIAURAHMAN ZIA	APPROVED/DESIGNED	ENG.AB.MOMEN "RAAD"
CHECKED BY	ENG.M.RAHEM	SCALE	AS SHOWN (A3)
TECH. APPROVED BY	ENG.AB.MATTIN MAQOOL	DATE& CODE NO	25.09.2016

DRAWING TYPE	CODE #
ARCHITECTURAL	10 48

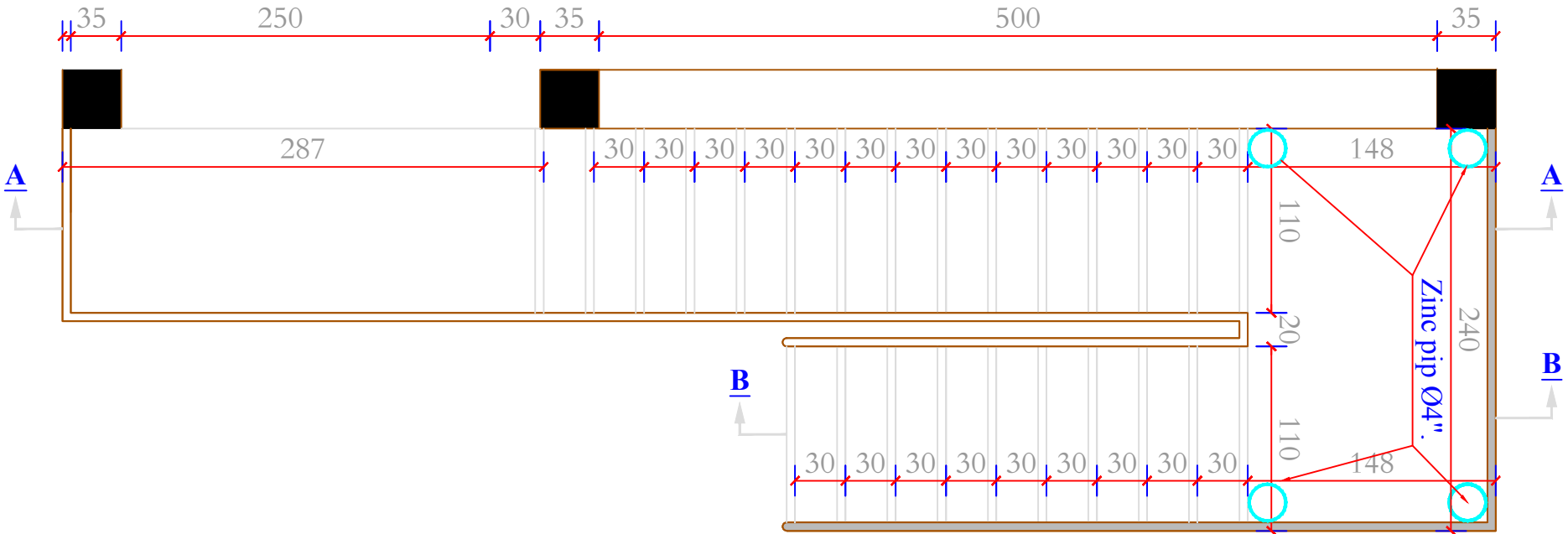
PROJECT NAME	
PROJECT TYPE AND DRAWING TITLE	16 CLASS ROOM SCHOOL BURNT BRICK IRON SHEET ROOF DETAILS CONSTRUCTION JOINTS



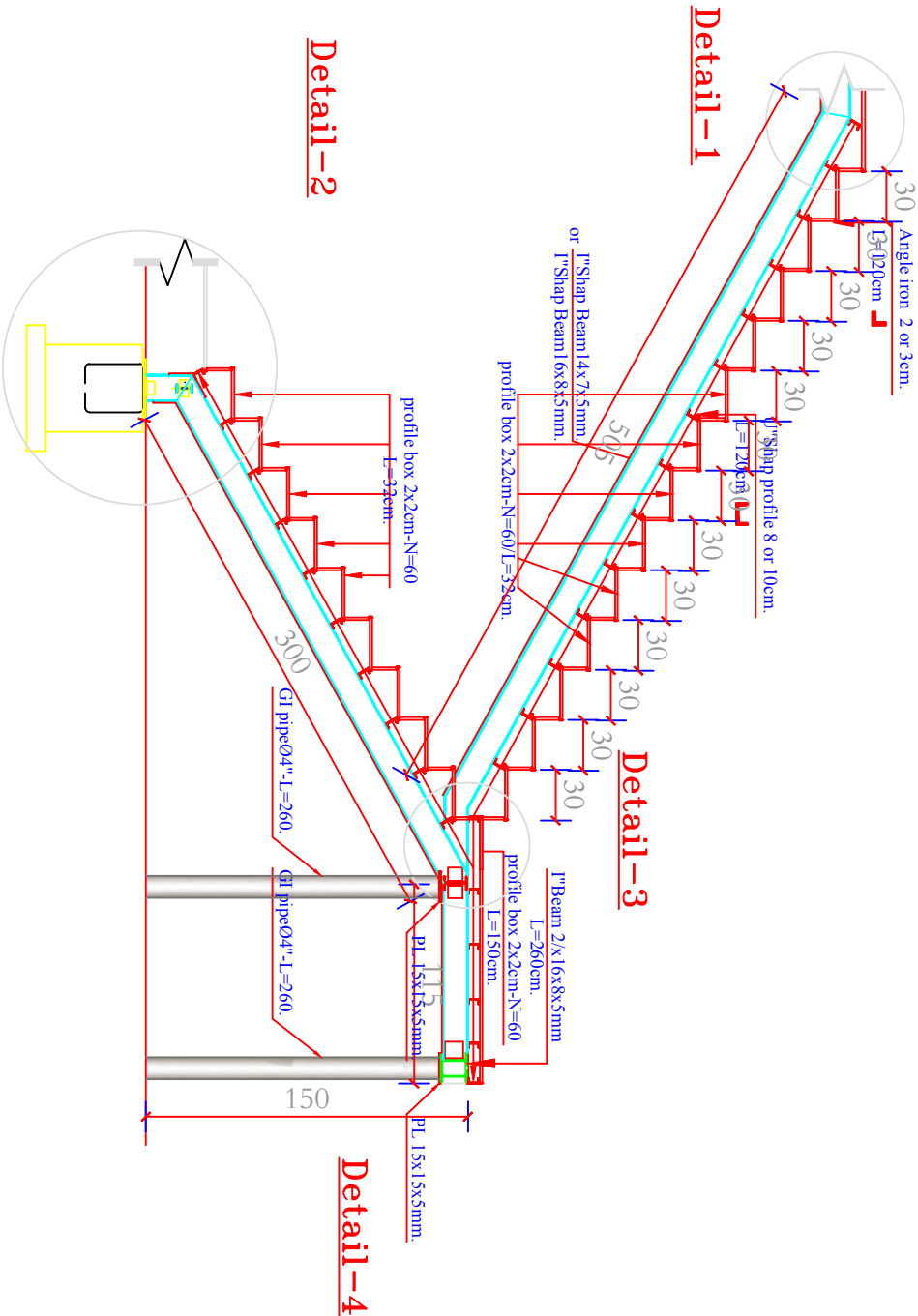
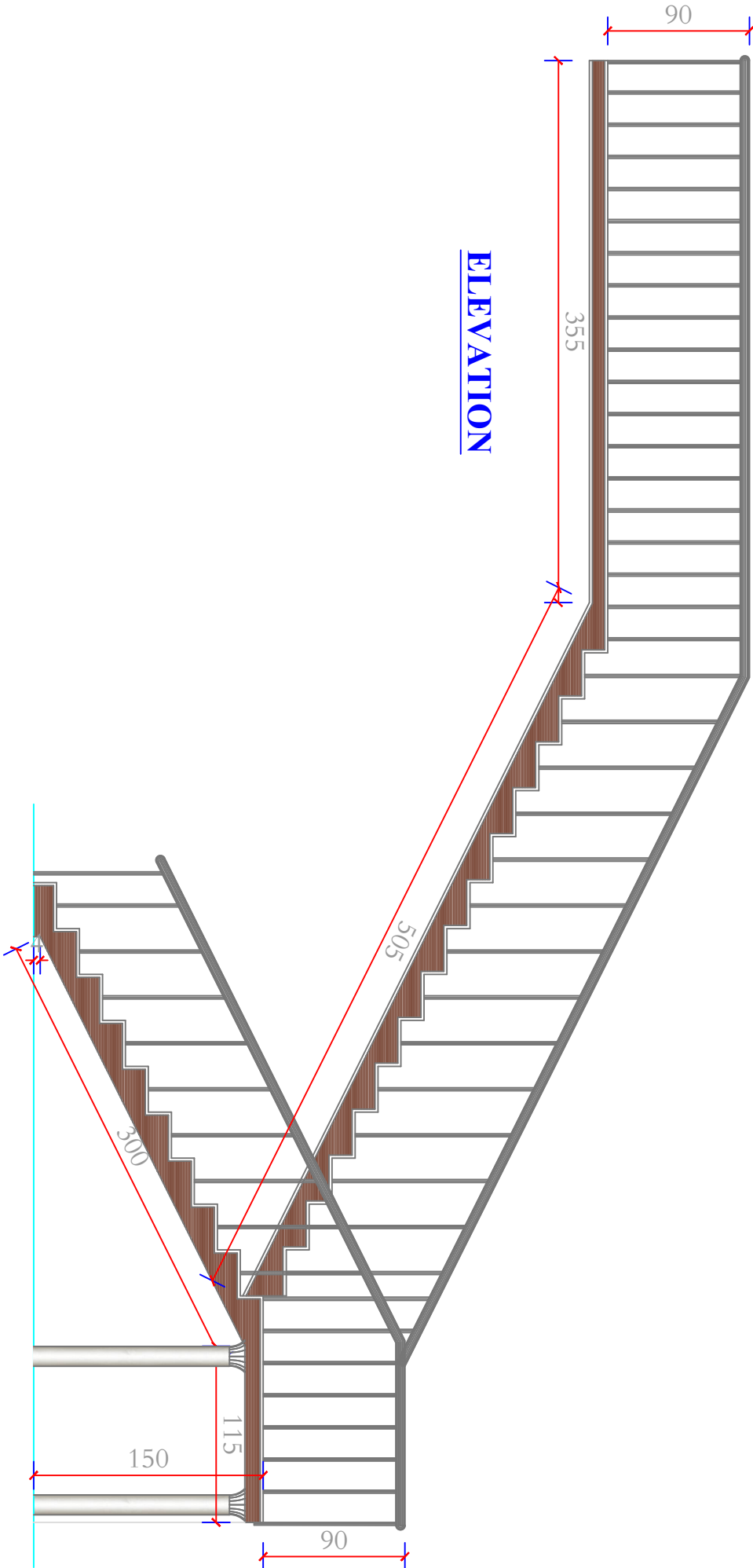




PLAN OF STAIRS

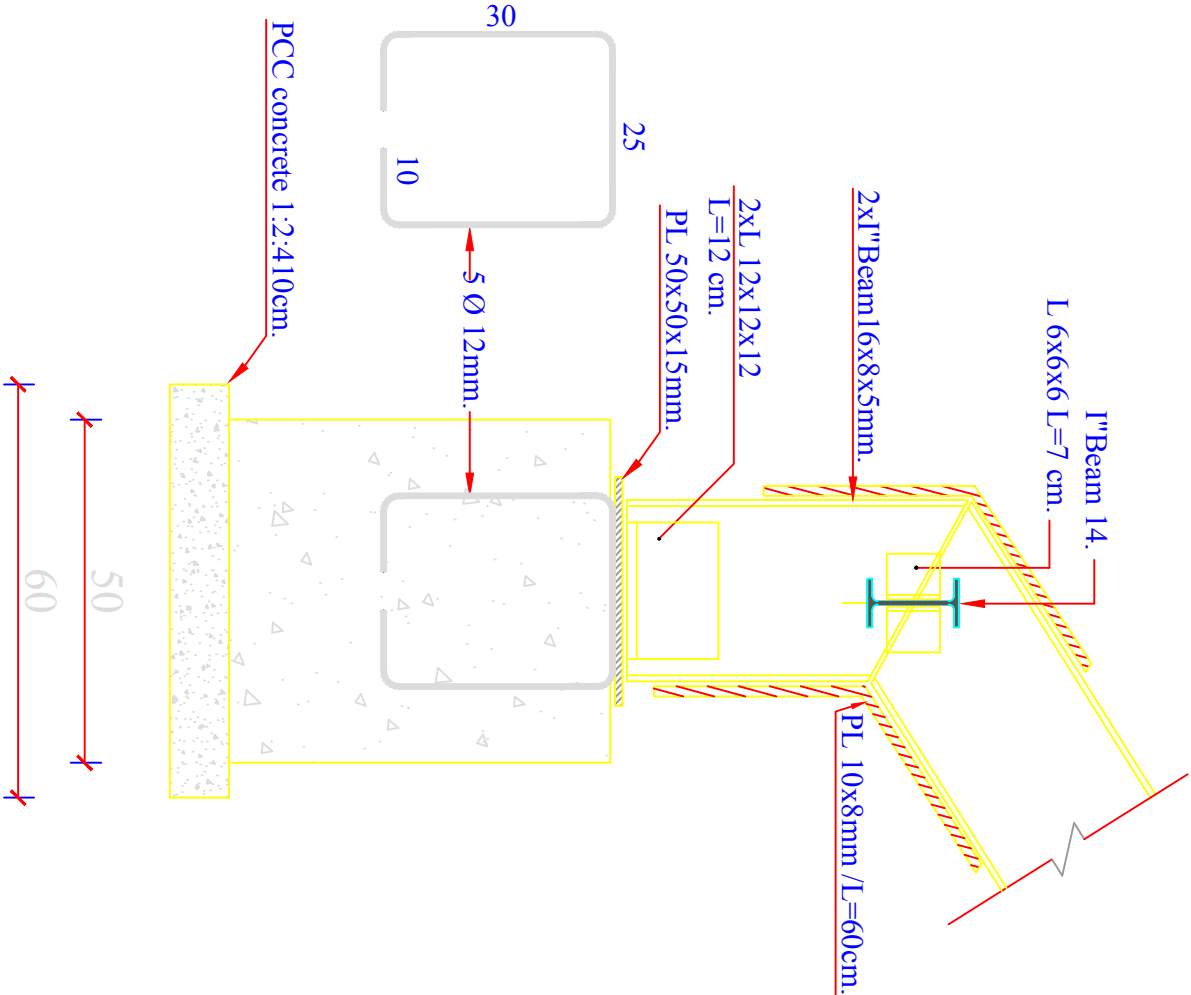


ELEVATION

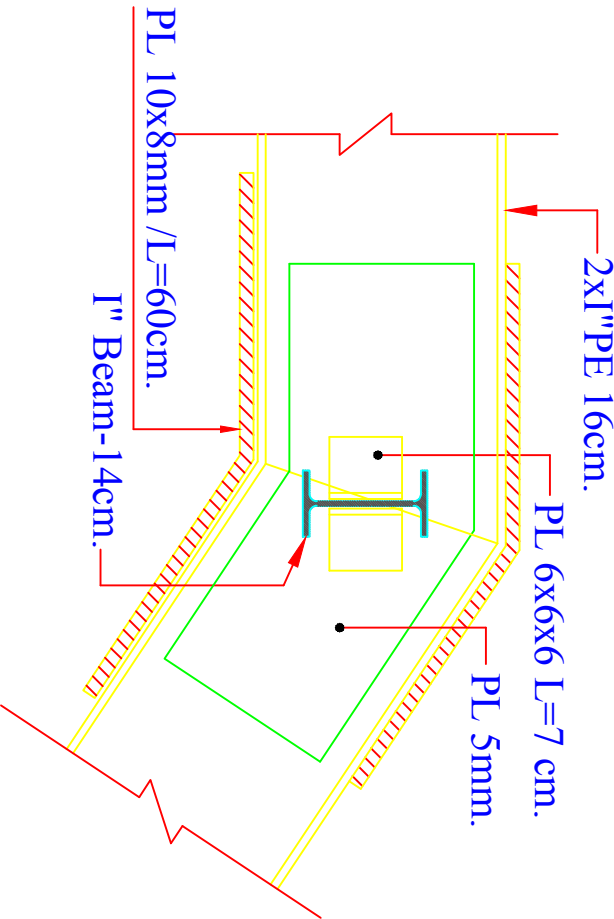


MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN	APPROVED/Doc/Mod	DRAWING No	PROJECT NAME	
				RCC/DESIGN	ENG.F.ATIMA	SCALE	16 CLASS ROOM SCHOOL METAL SHEET ROOF.	
				TECH. APPROVED BY	ENG.AB.MATIN MAOOL	DATE	DETAIL/S FROM DIFFERENT PART	

Detail-2

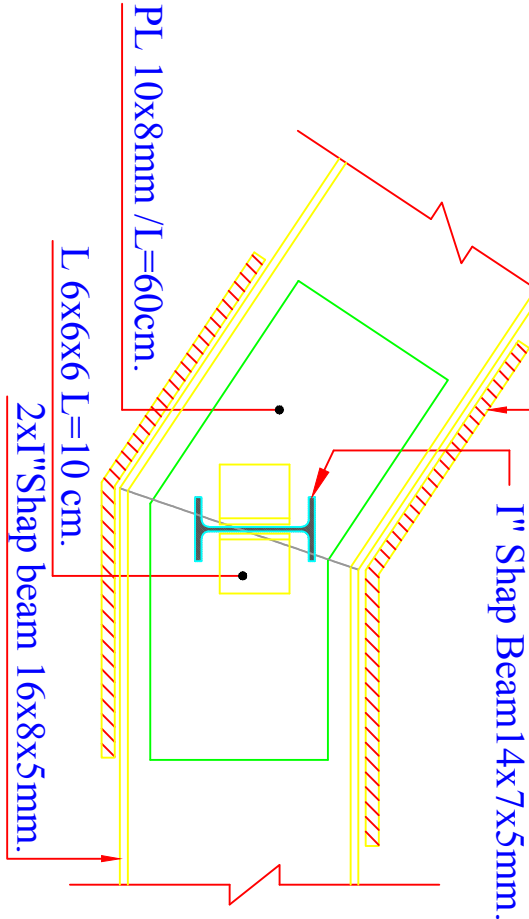


Detail-1

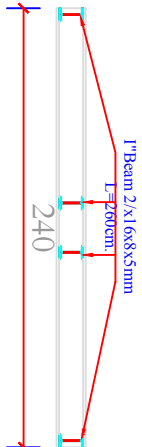


PL 10x8mm /L=60cm.

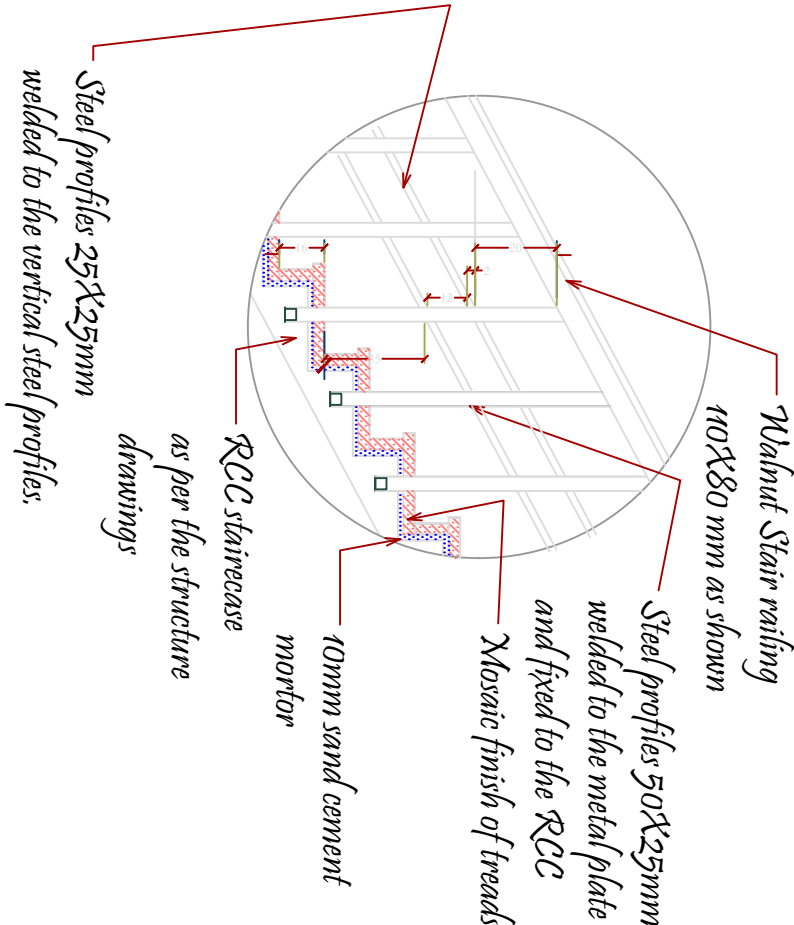
Detail-3



Detail-4

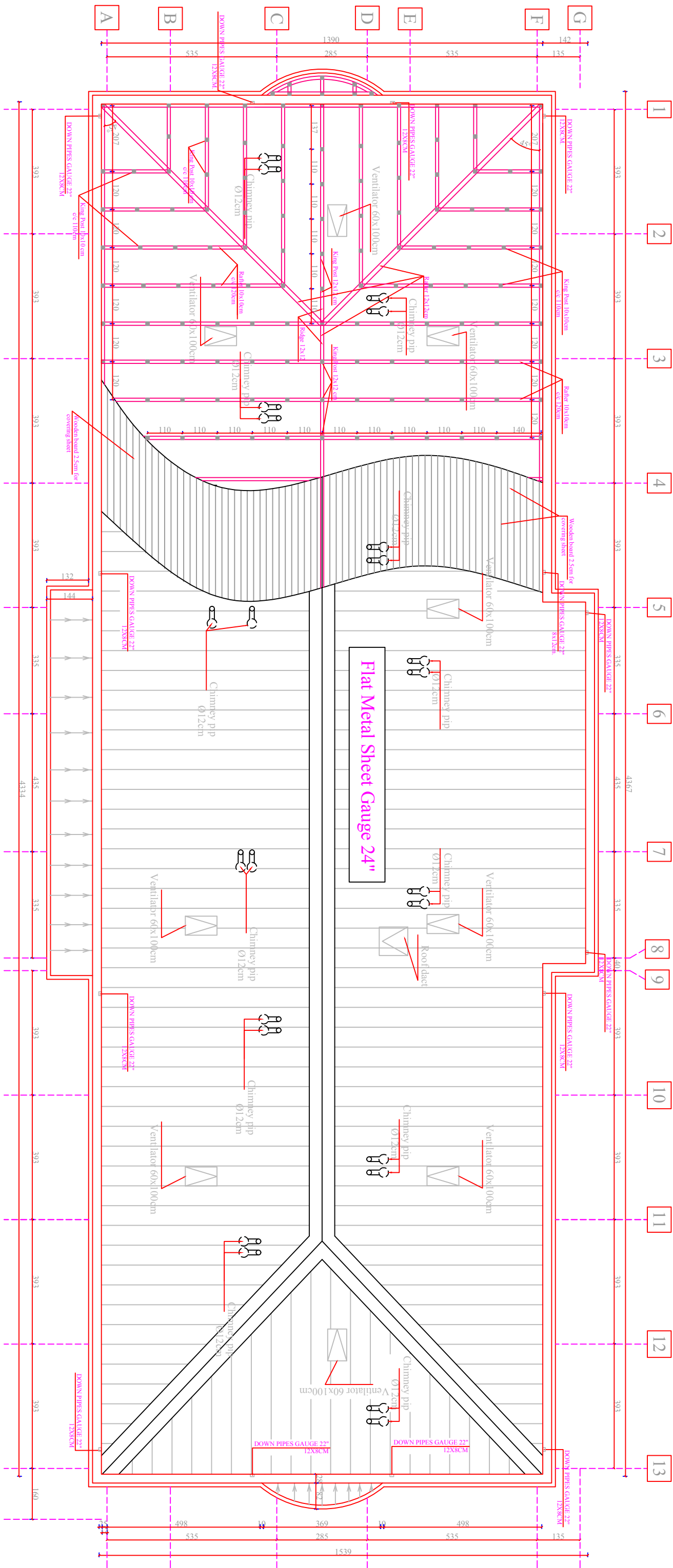


Staircase and Handrailing detail




MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN REC/DESIGN	AH.FEROZ TAHIRY ENG.FATIMA	APPROVED/Doc/Mod SCALE	ENG.MOHIYUNUS YOUSSEZAI AS SHOWN (A3)	DRAWING No	PROJECT NAME 16CLASS ROOM SCHOOL METAL SHEET ROOF.	
				TECH. APPROVED BY	ENG.AB.MATIN MAQOOL	DATE	25.6.2006	SHEET No	DRAWING TITLE DETAIL/S FROM DIFFERENT PART	

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

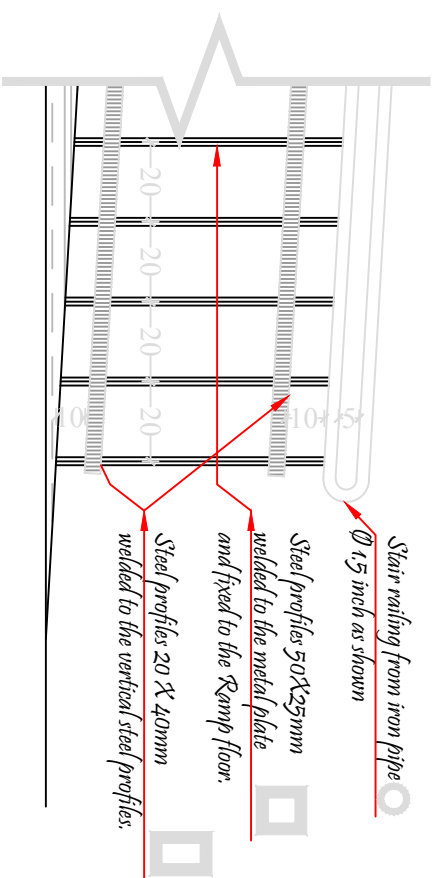


ROOF LAYOUT

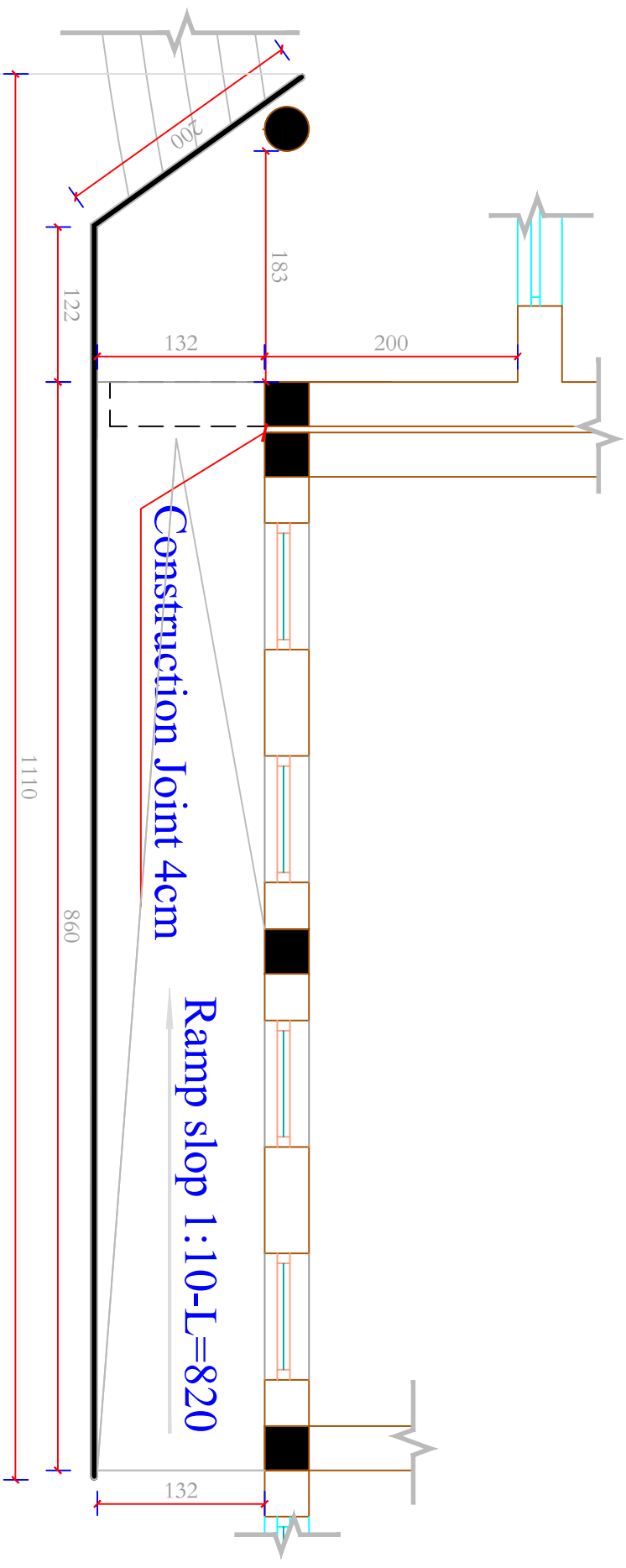
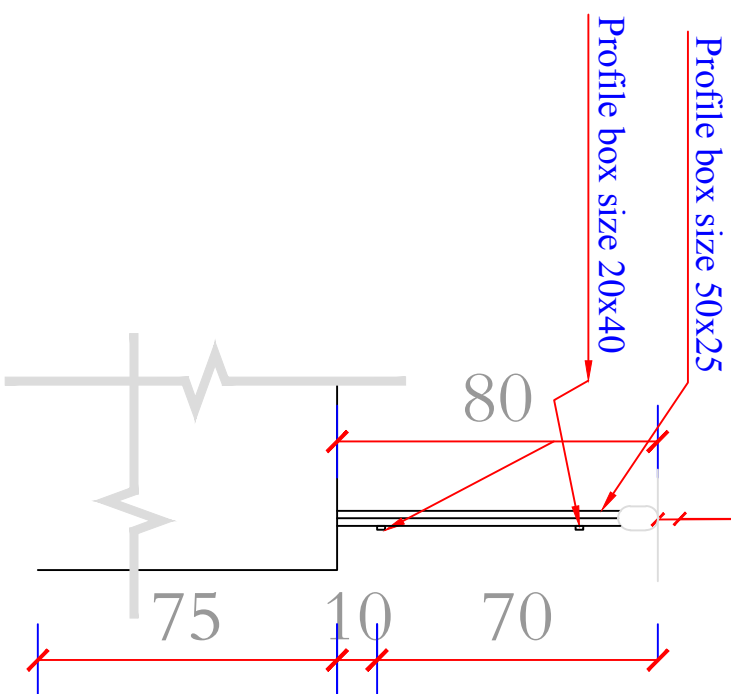
		MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN		APPROVED/Date		DRAWING TYPE		ARCHITECTURAL		PROJECT NAME						
CHECKED BY						SCALE		CODE #		PROJECT TYPE AND DRAWING TITLE										
TECH. APPROVED BY						DATE/ CODE NO				16 CLASS ROOM SCHOOL, BURNT BRICK, IRON SHEET ROOF ROOF PLAN										
						ZIAURAHMAN ZIA	ENG.M.RAHEM	AS SHOWN (A3)		14										
						ENG.AB.MATIN MAQOOL		14.02.2015												



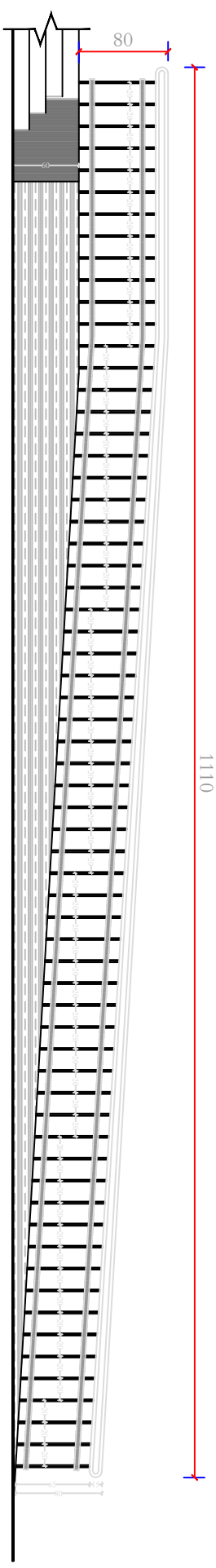
## DETAIL'S



Stair railing from iron pipe Ø 1.5 inch as shown



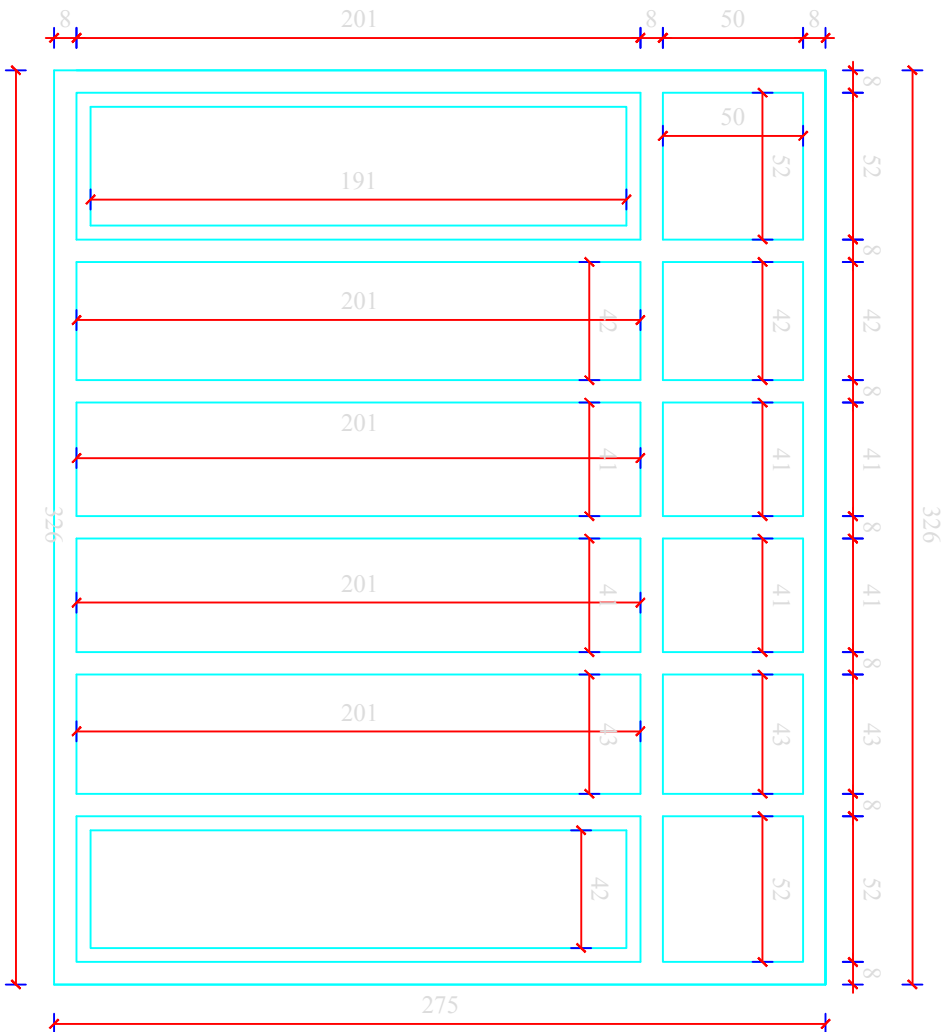
## PLAN



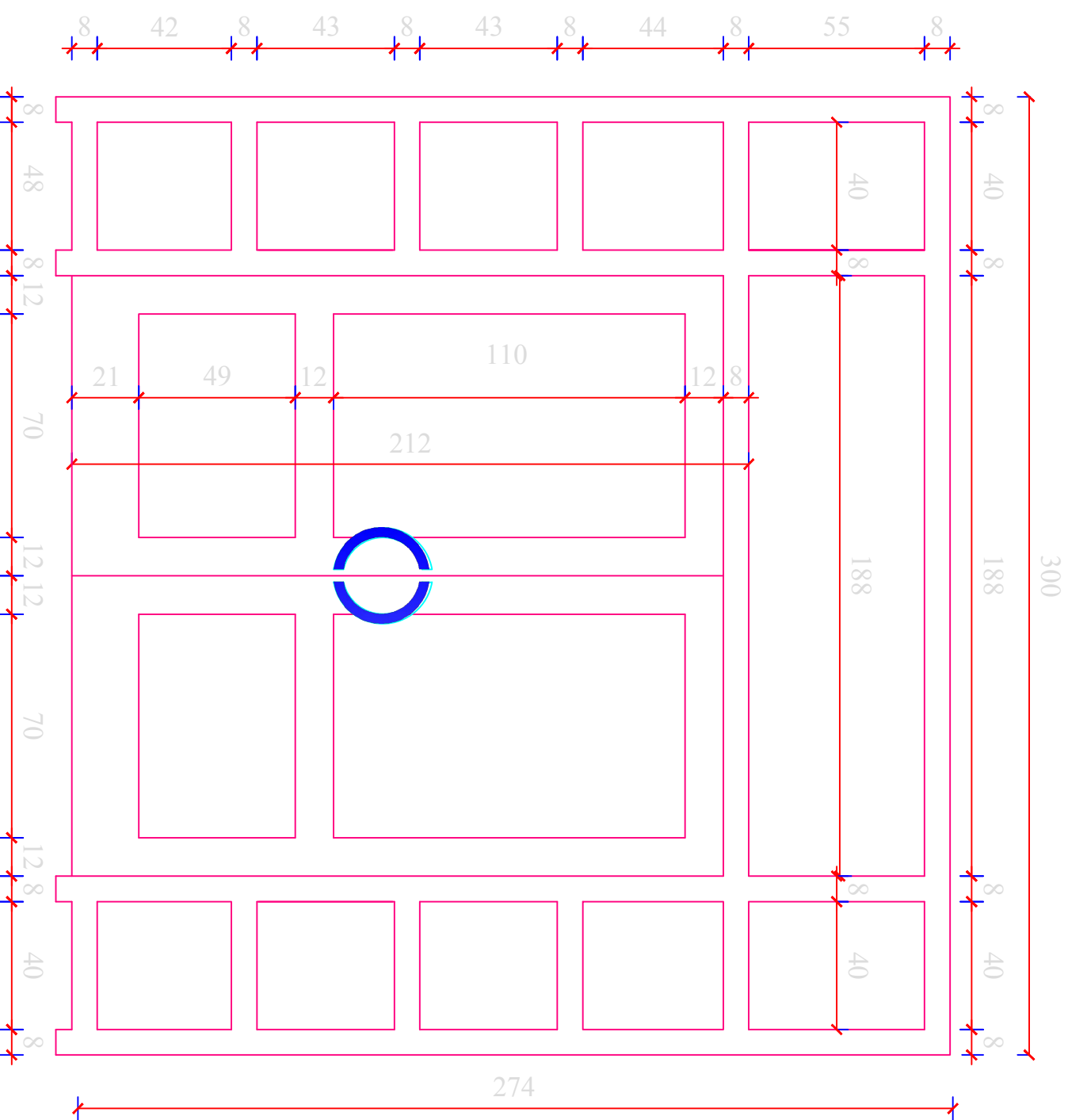
## FRONT ELEVATION

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION			STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RC/DESIGN	AH FEROKZ TAHIRY ENG.FATIMA	APPROVED/Doc/Misc SCALE	ENG.MOHYONUS YOUSFZAI AS SHOWN (A3)	DRAWING NO	PROJECT NAME 16 CLASS ROOM SCHOOL METAL SHEET ROOF.	
					TECH-APPROVED BY	ENG.AB.MATIN MAQOL	DATE	25.6.2006	SHEET NO	DRAWING TITLE DETAIL'S FROM NET HANDRAIL	
									14 48		

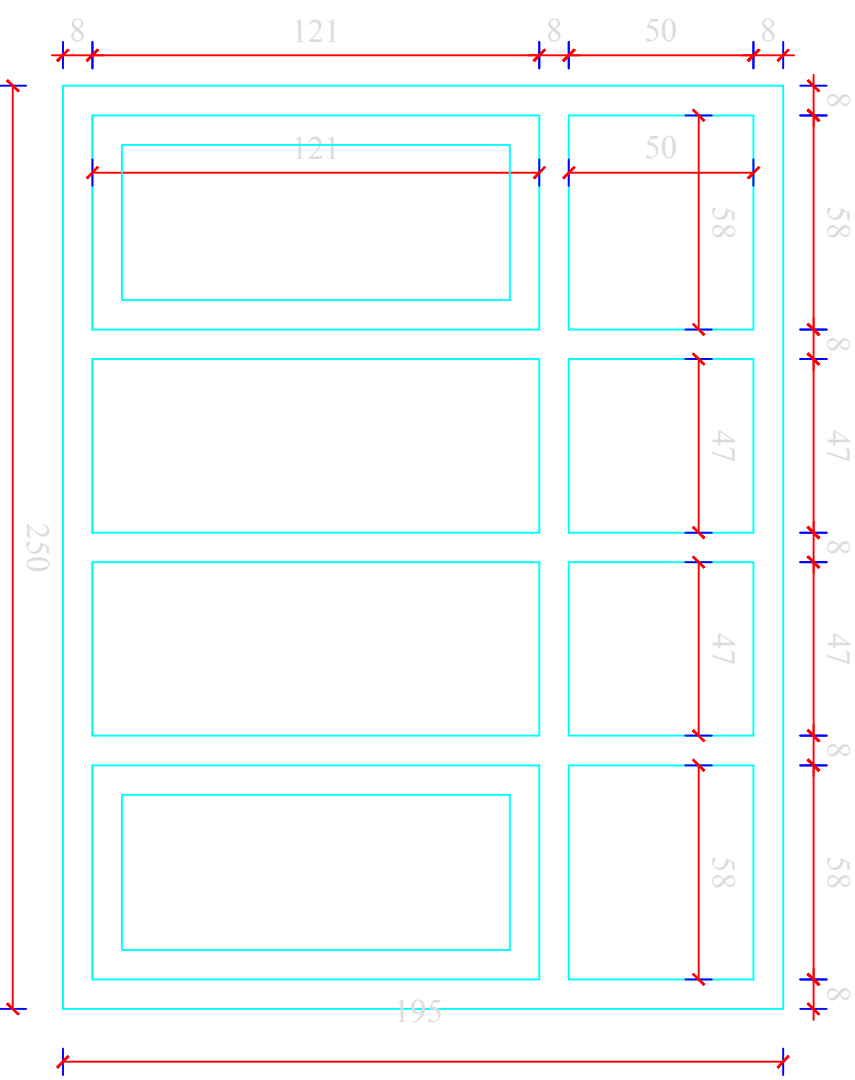
window-4 n=1



door window-2 n=1

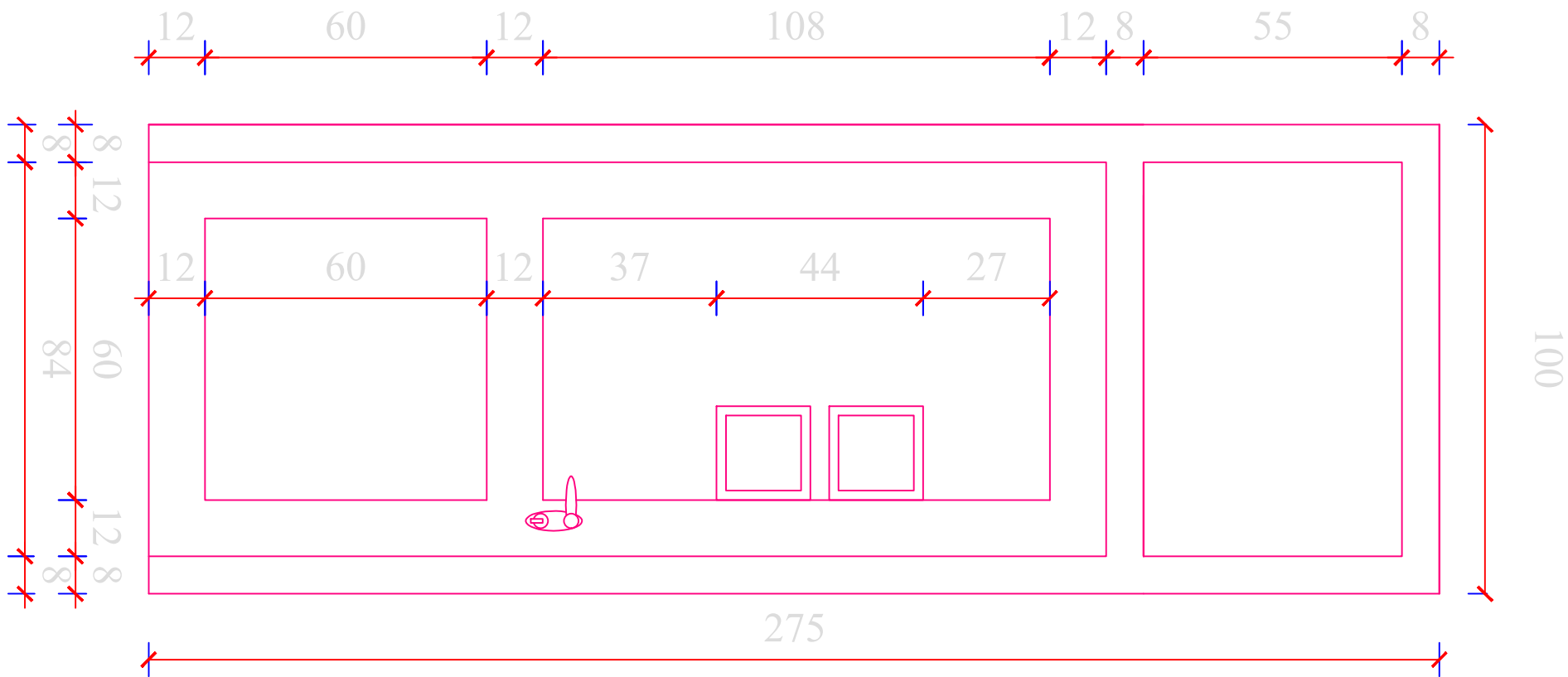


window-5 n=2

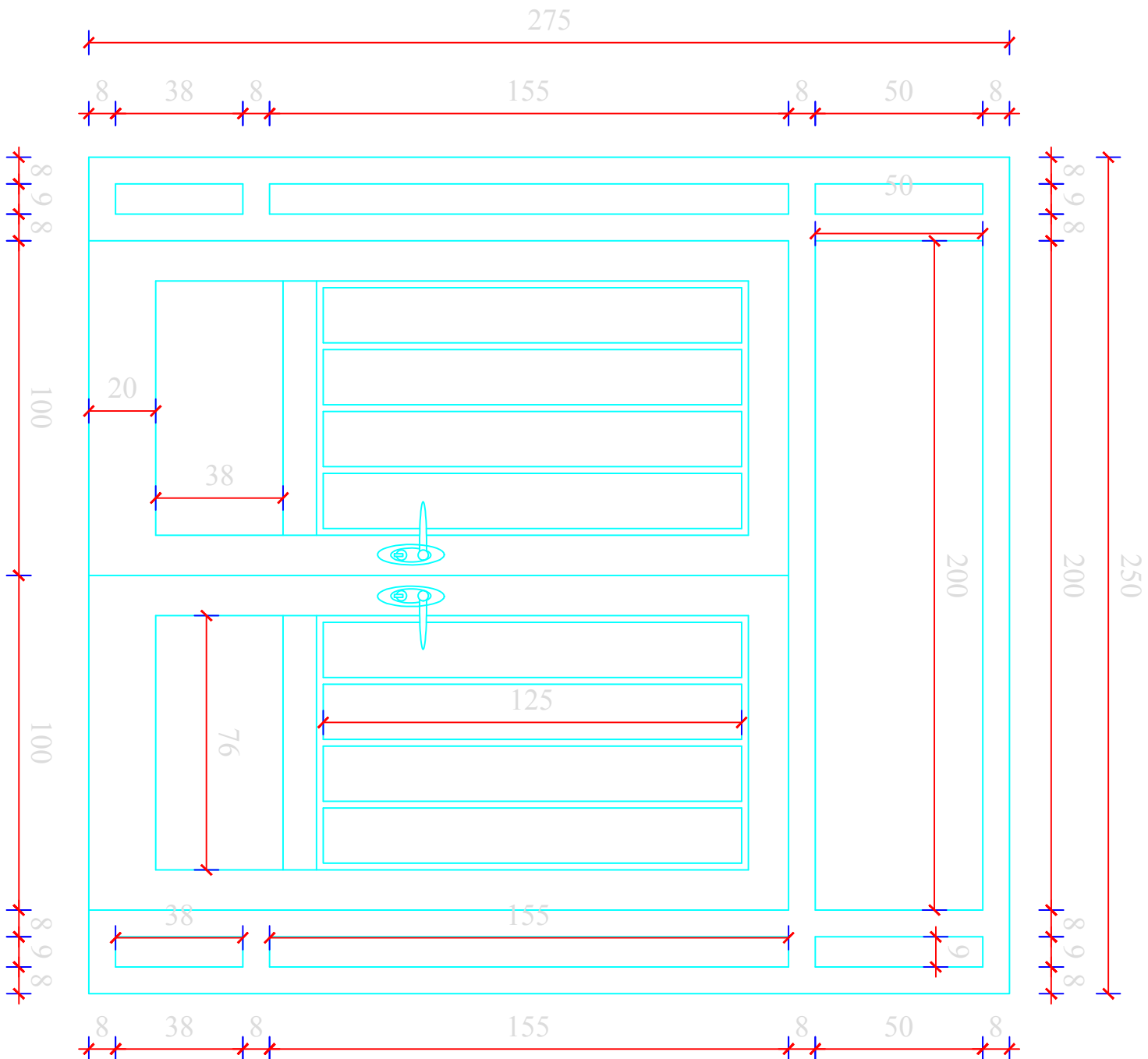


MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN		APPROVED/DATE		DRAWING No		PROJECT NAME	
RC/DESIGN		ENG.FATIMA		AH.FEROZ TAHIRY		ENG.MOHYONUS YOUSFZAI		AS SHOWN (A3)		16CLASS ROOM SCHOOL METAL SHEET ROOF.	
TECH. APPROVED BY		ENG.AB.MATIN MAQOOL		SCALE		DATE		SHEET No		DRAWING TITLE	
						25.6.2006				DETAIL'S FROM DOOR & WINDOW.	

door-1 n=24



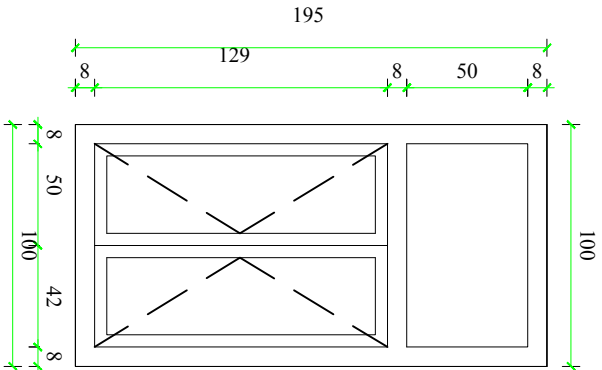
door win-2 n=2



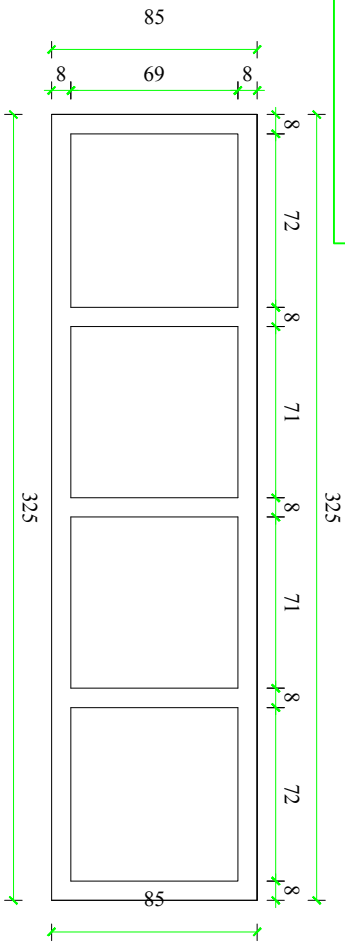
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RCC/DESIGN		APPROVED/Doc/Doc		PROJECT NAME	
				TECH. APPROVED BY		SCALE		DRAWING TITLE	
				ENG. AB. MATTIN MAQOL		AS SHOWN (A3)		DETAILS FROM DOOR & WINDOW.	
				DATE		SHEET No			
				25.6.2006					



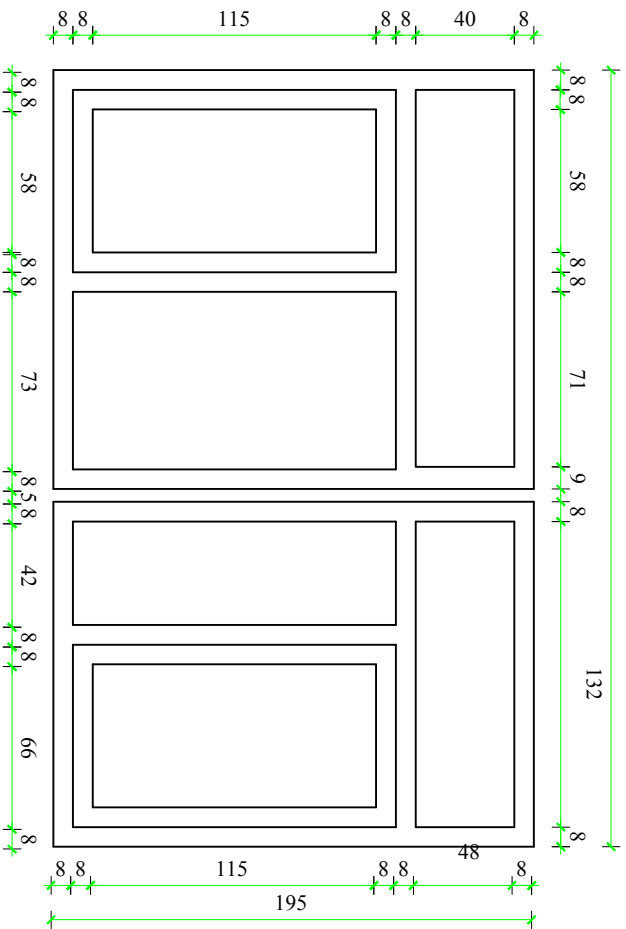
window-1 n=70



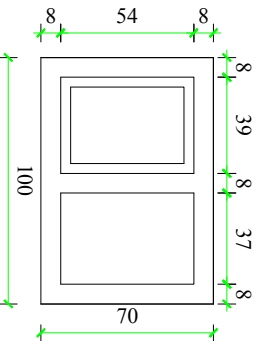
window-3 n=1



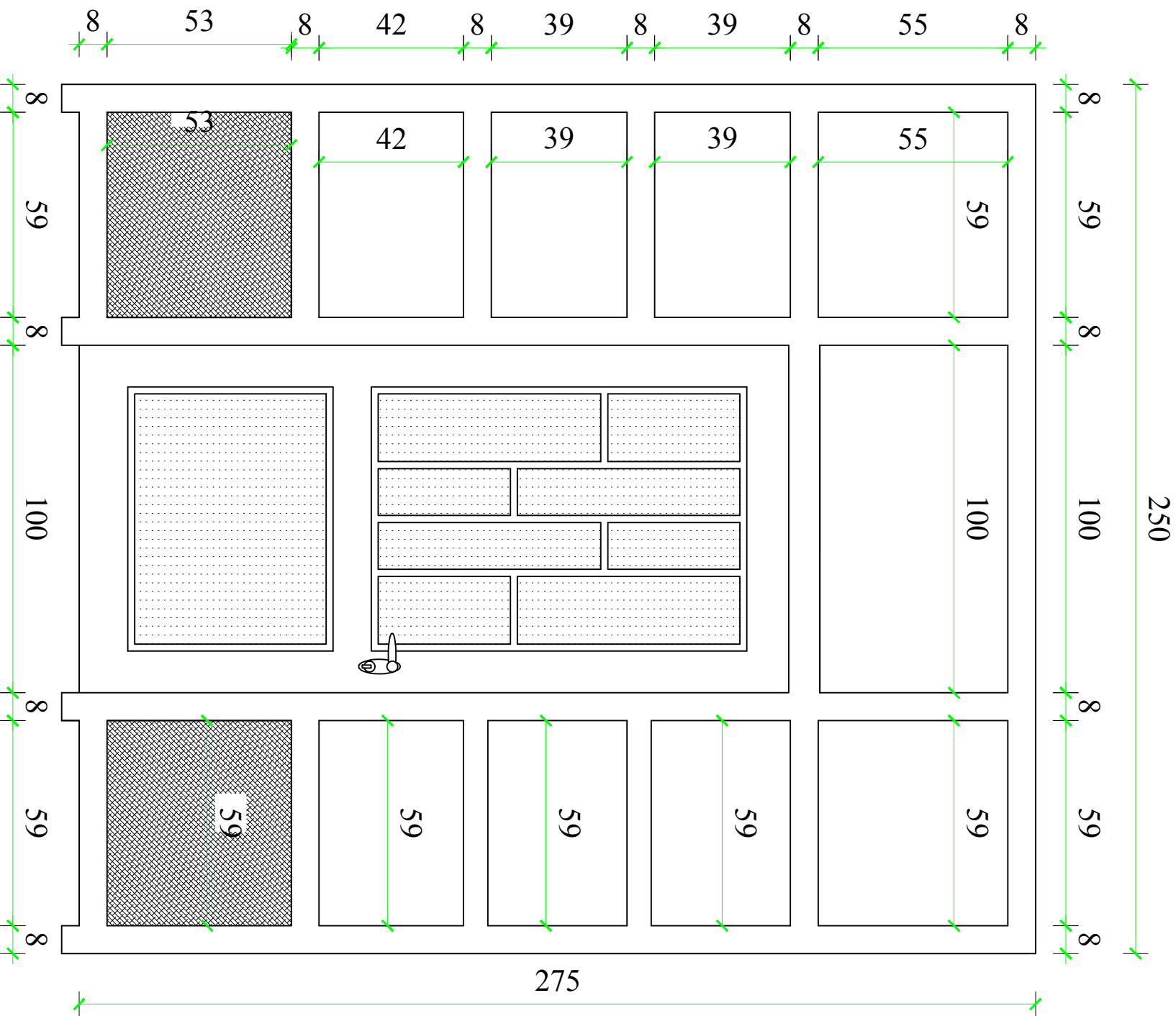
window-6 n=2



window-2 n=38

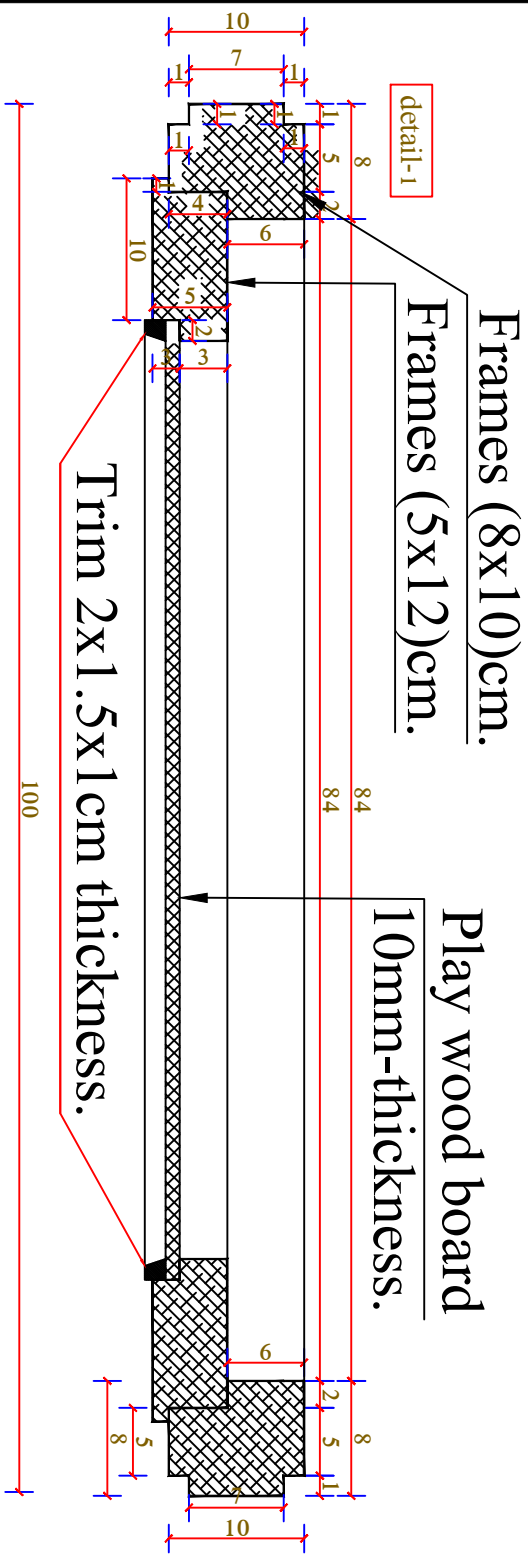


door window-2 n=2

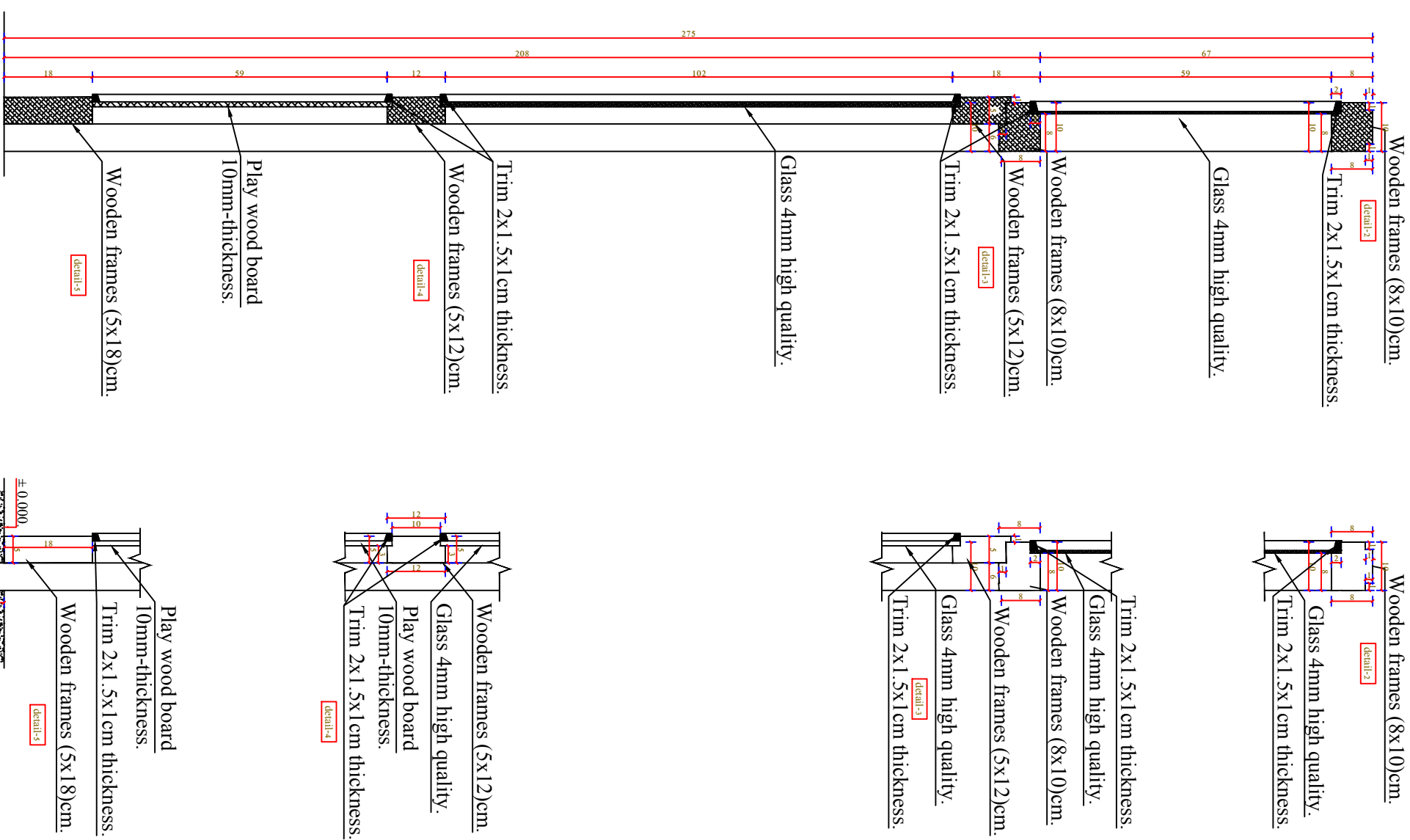
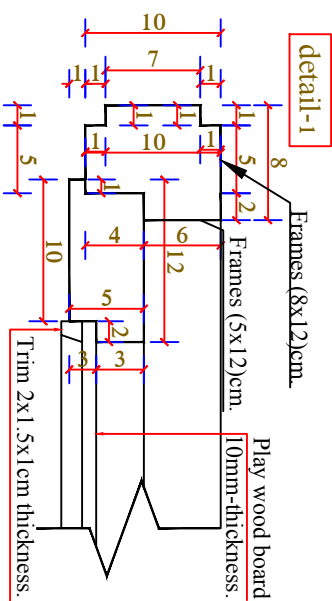




## DETAILS



(Door horizontal section)

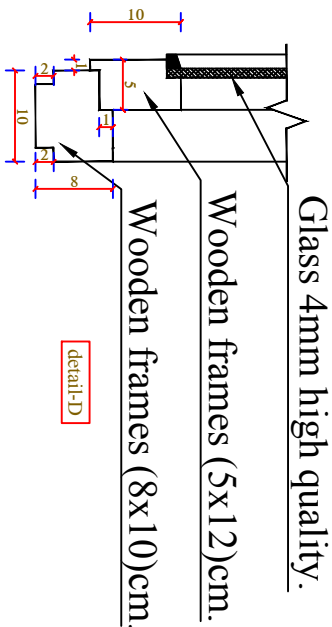
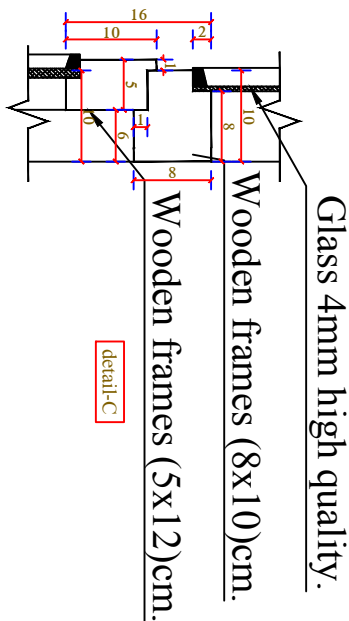
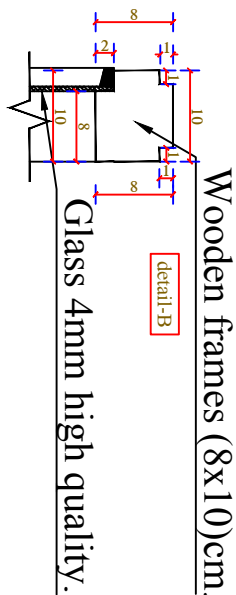
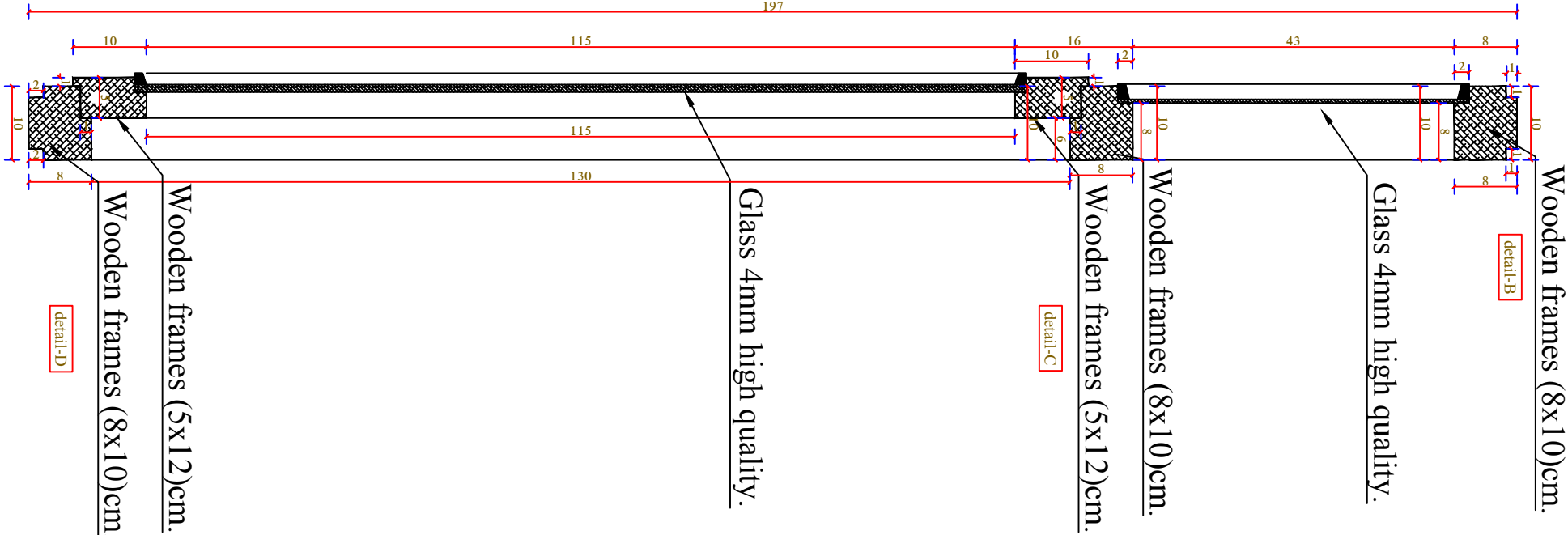
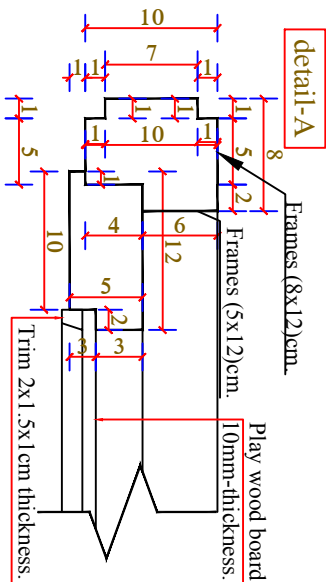
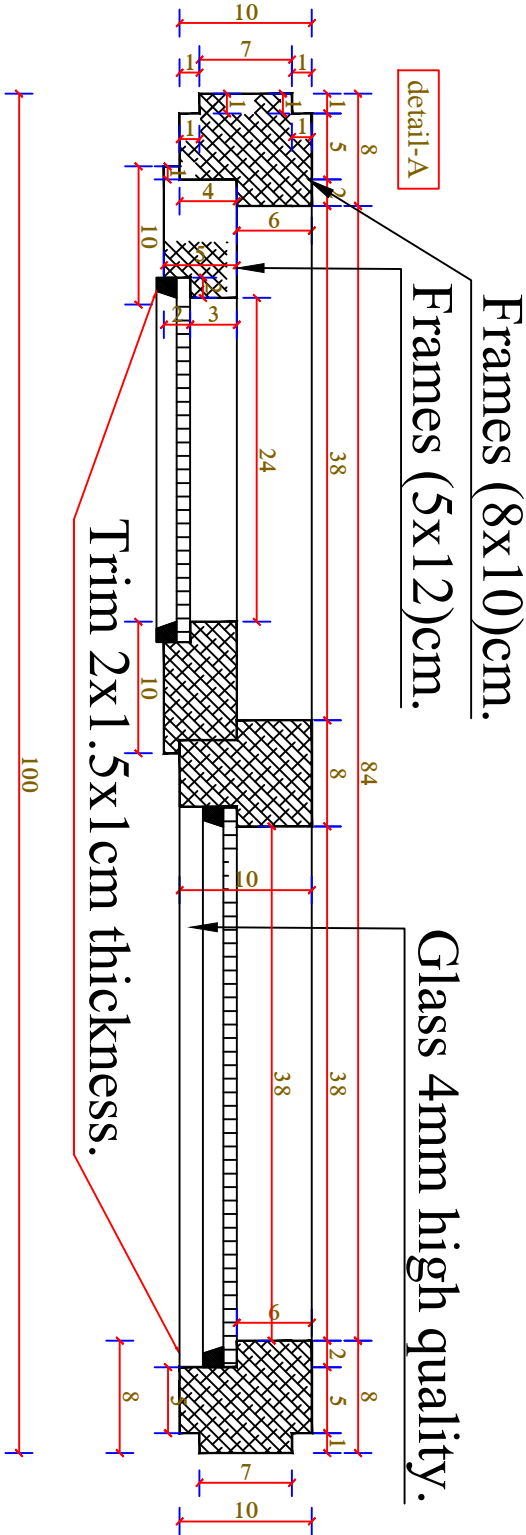


MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RC/C/DESIGN TECH-APPROVED BY		AH.FEROKZ T.AHIRY ENG.FATIMA ENG.AB.MATIN MAQOOL		APPROVED/Disc/Mod SCALE DATE		ENG.MOHYONOUS YOUSFZAI AS SHOWN (A3) 25.6.2006		DRAWING No SHEET No		19 48		PROJECT NAME 16CLASS ROOM SCHOOL METAL SHEET ROOF. DRAWING TTITLE DETAIL S.FROM DOOR.	
---	--	--	--	---	--	--	--	------------------------------------	--	--	--	------------------------	--	----------	--	--	--





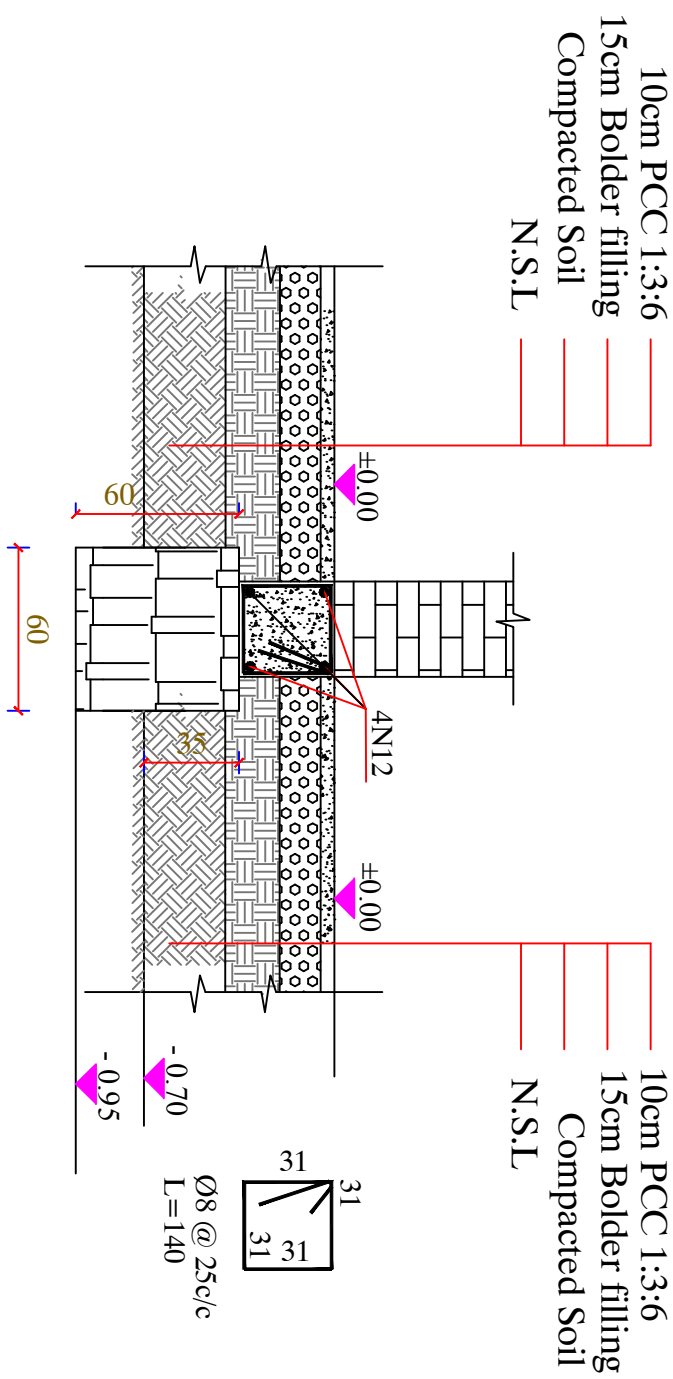
(Door horizontal section)



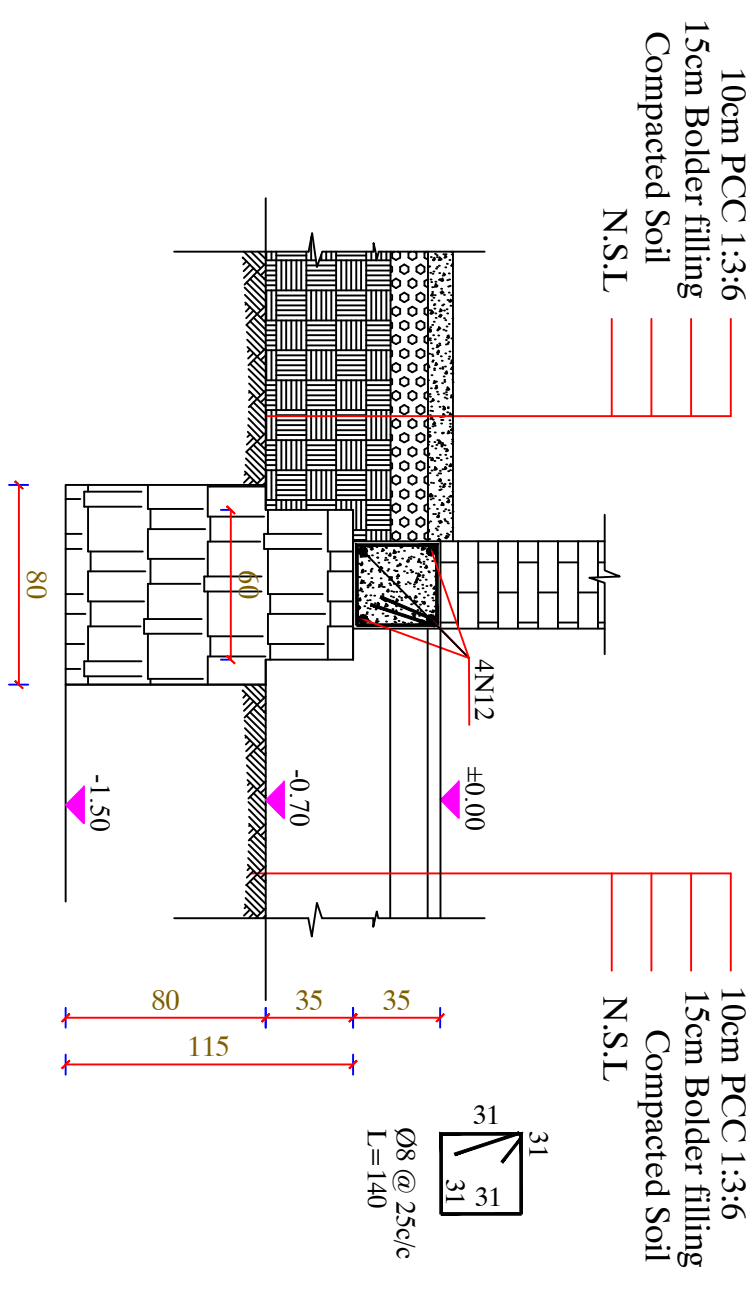
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RCC/DESIGN	ENGINEER/DESIGN ENG.FATIMA	APPROVED/Doc/Rev	SCALE	DATE	ENG.MOHYOUNUS YOUSSEZAI	DRAWING No	PROJECT NAME 16CLASS ROOM SCHOOL METAL SHEET ROOF.	
				TECH. APPROVED BY	ENG.AB.MATIN MAQOOL		AS SHOWN (A3)	25.6.2006		SHEET No	DRAWING TITLE DETAIL S FROM WINDOWS	



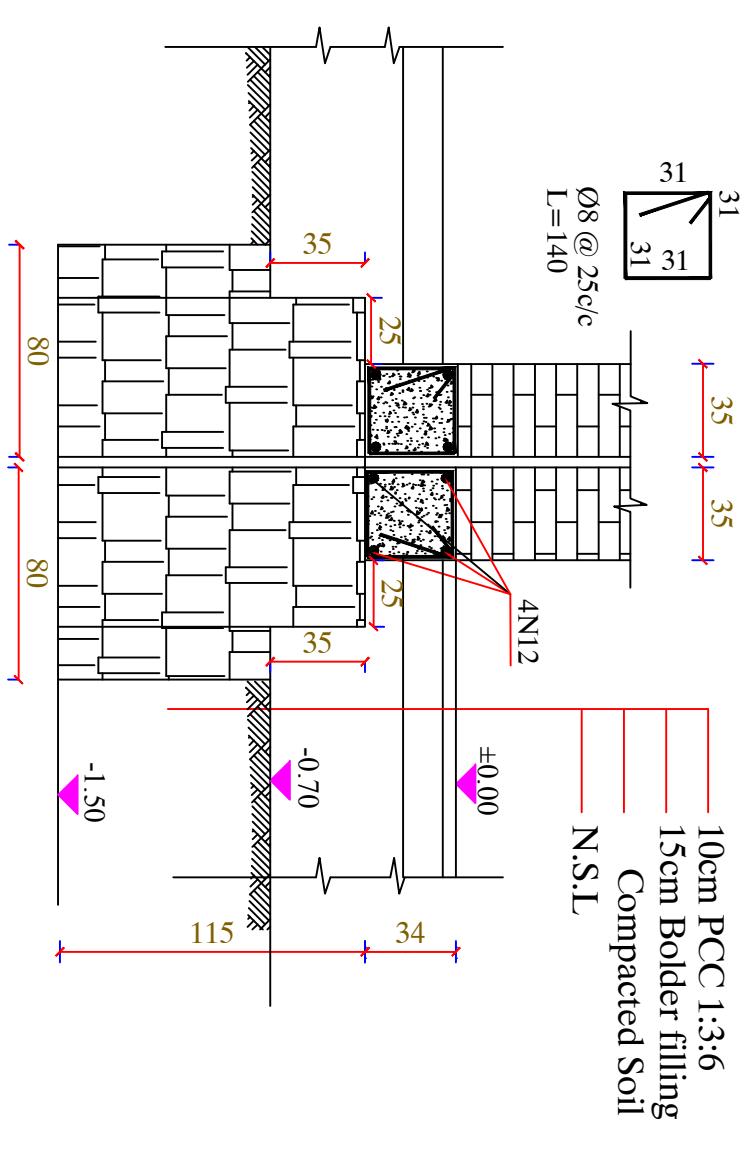
## Section E:E



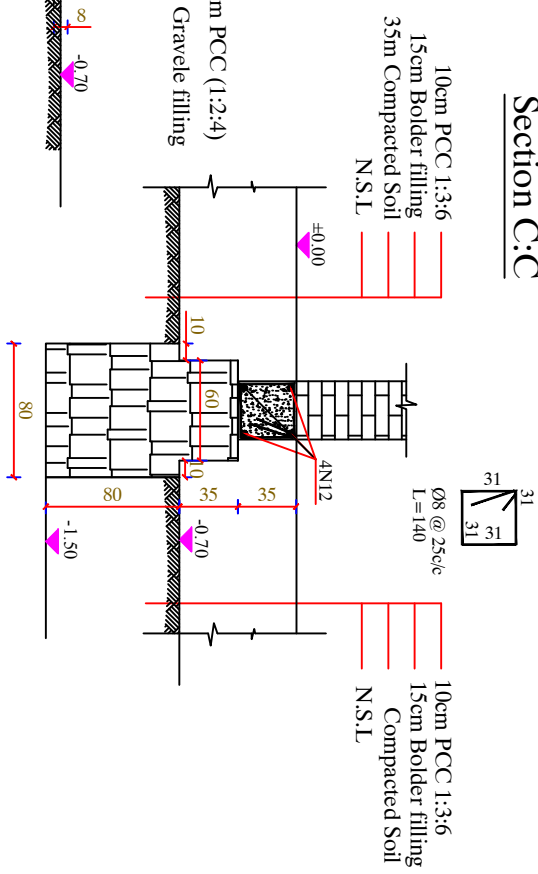
## Section B:B



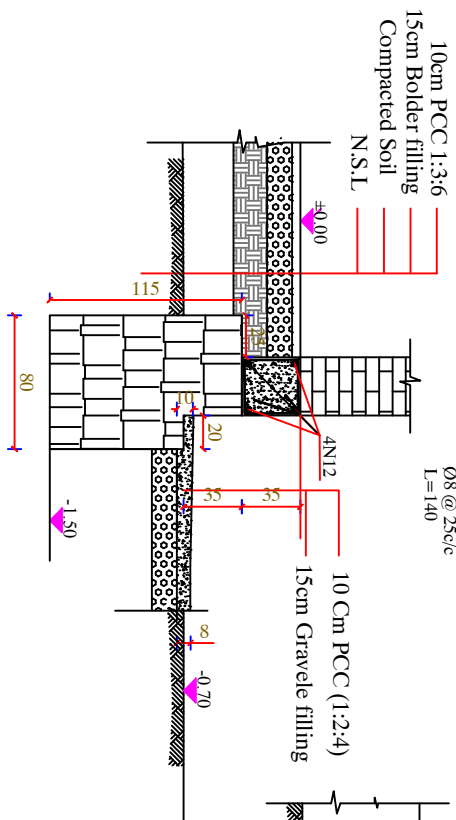
## Section D:D



## Section C:C



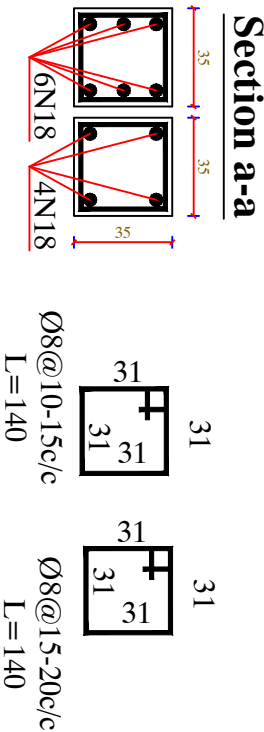
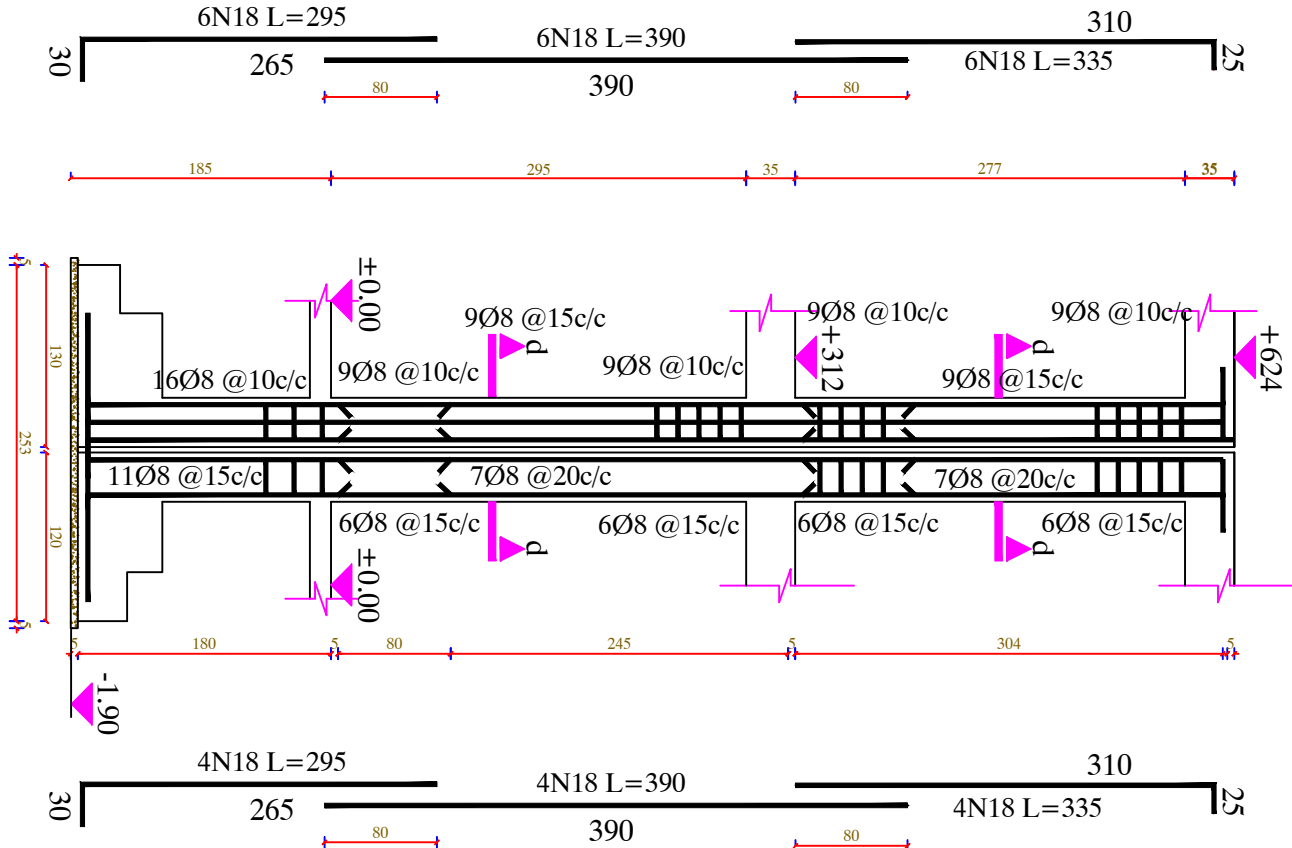
## Section A:A



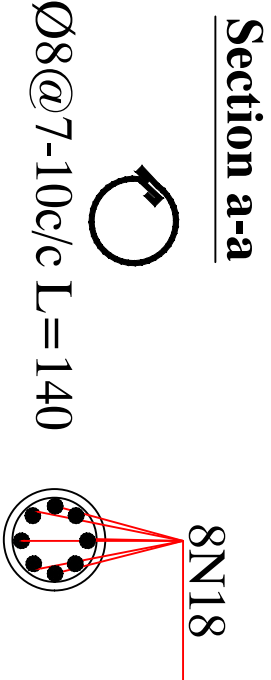
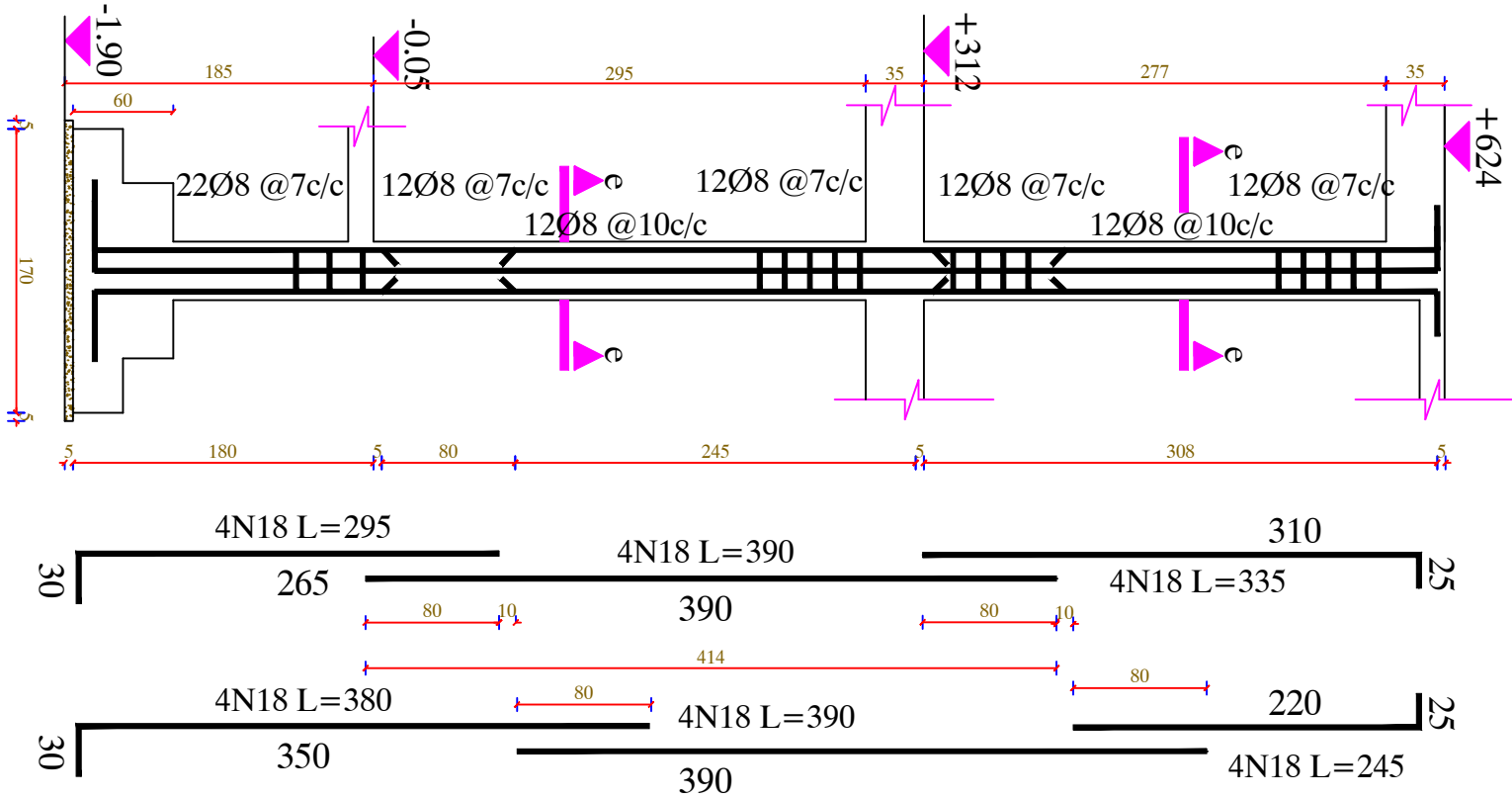
MINISTRY OF EDUCATION DEPARTMENT OF CONTRACTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DISIGN		AH,FERROZ TAHIRY		APPROVED/Doc/Date		ENG. YONUS YOUSSEZAI		DRAWING No	
				RCC/DISIGN		ENG.FATIMA		SCALE		AS SHOWN (A3)		SHEET No	
		TECH.-APPROVED BY		ENG.AB.MATIN MAQOL		DATE		25.6.2006				22 48	
										PROJECT NAME		16 CLASS ROOM SCHOOL IRON SHEET.	
										DRAWING TTITLE		FOUNDATION PLAN	



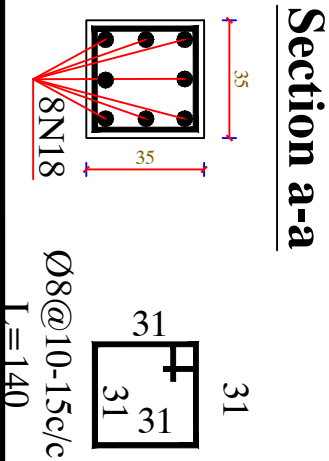
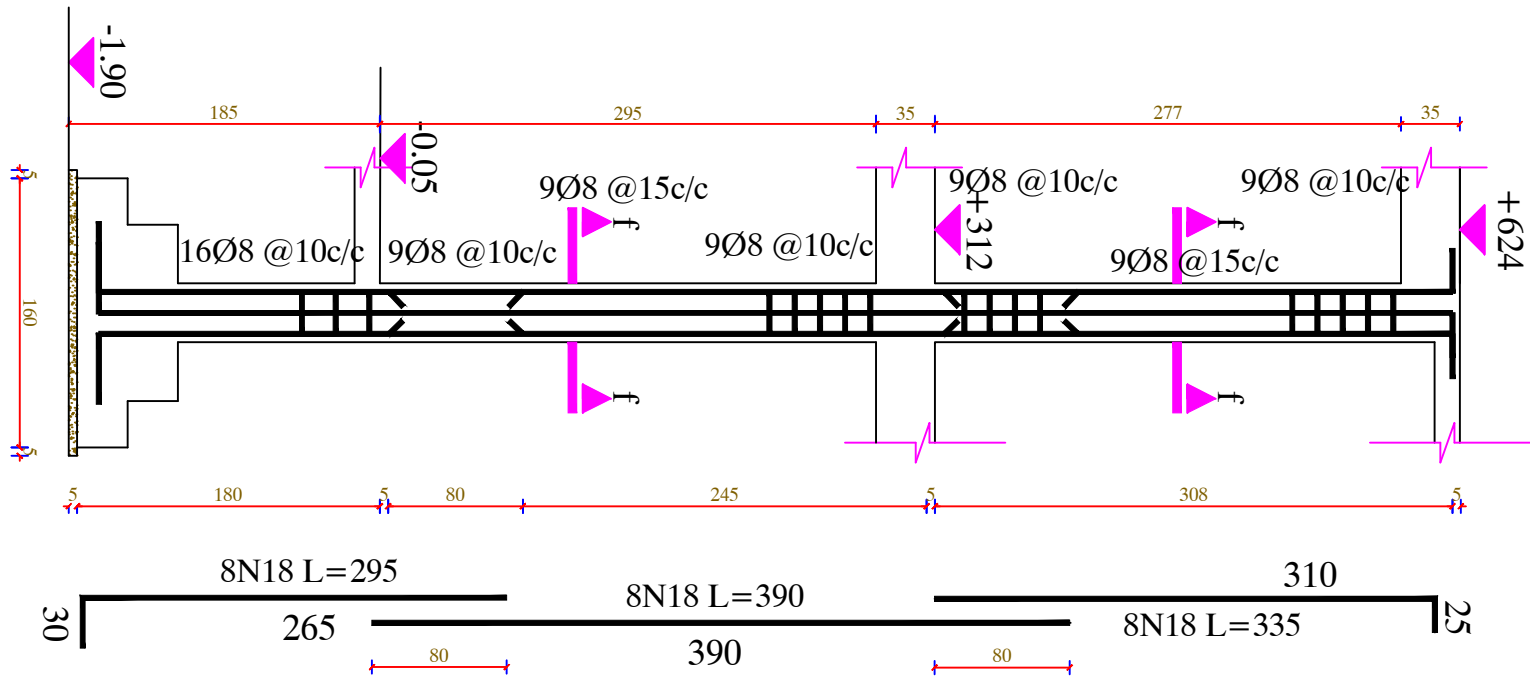
Column C-6-C9  
N=1



Column C-3  
N=2



Column C-5  
N=3



MINISTRY OF EDUCATION  
DEPARTMENT OF CONSTRUCTION

STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

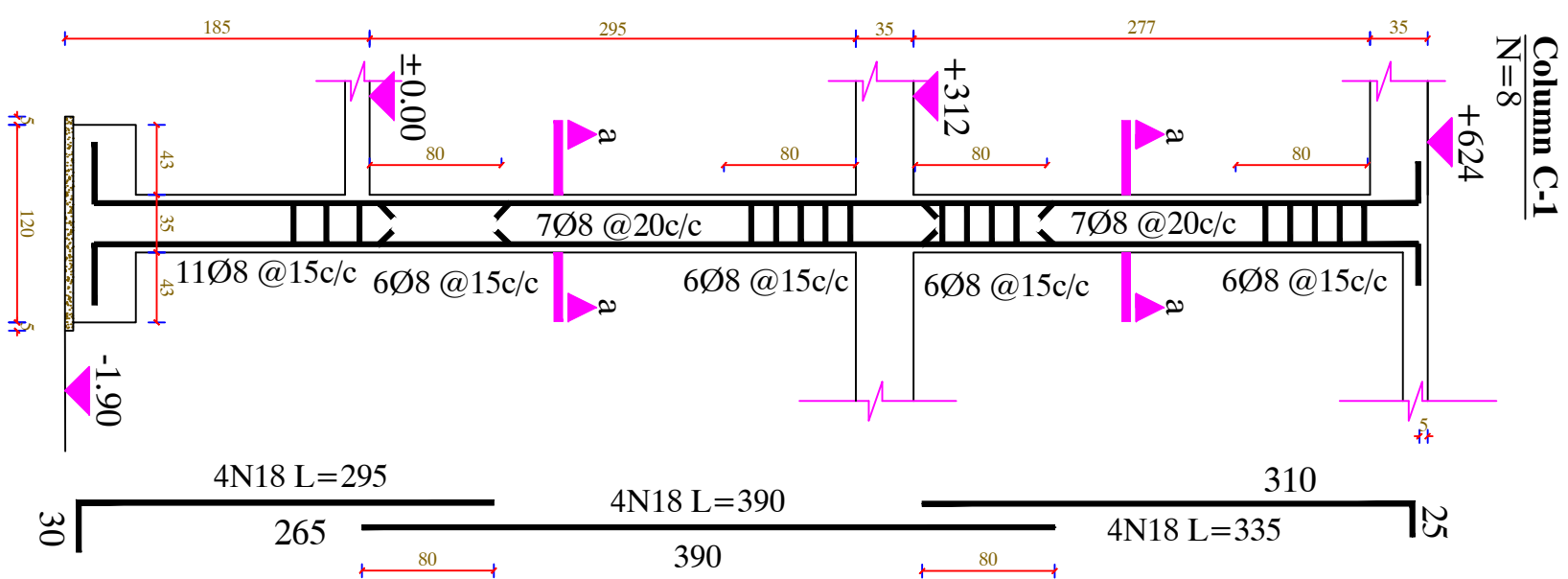
ARCHITECT/DESIGN	ARCHITECT/DESIGN
RECORD/DESIGN	RECORD/DESIGN
ENG. FATIMA	ENG. FATIMA
SCALE	SCALE
AS SHOWN (A3)	AS SHOWN (A3)
DATE	DATE
25.6.2006	25.6.2006

DRAWING No

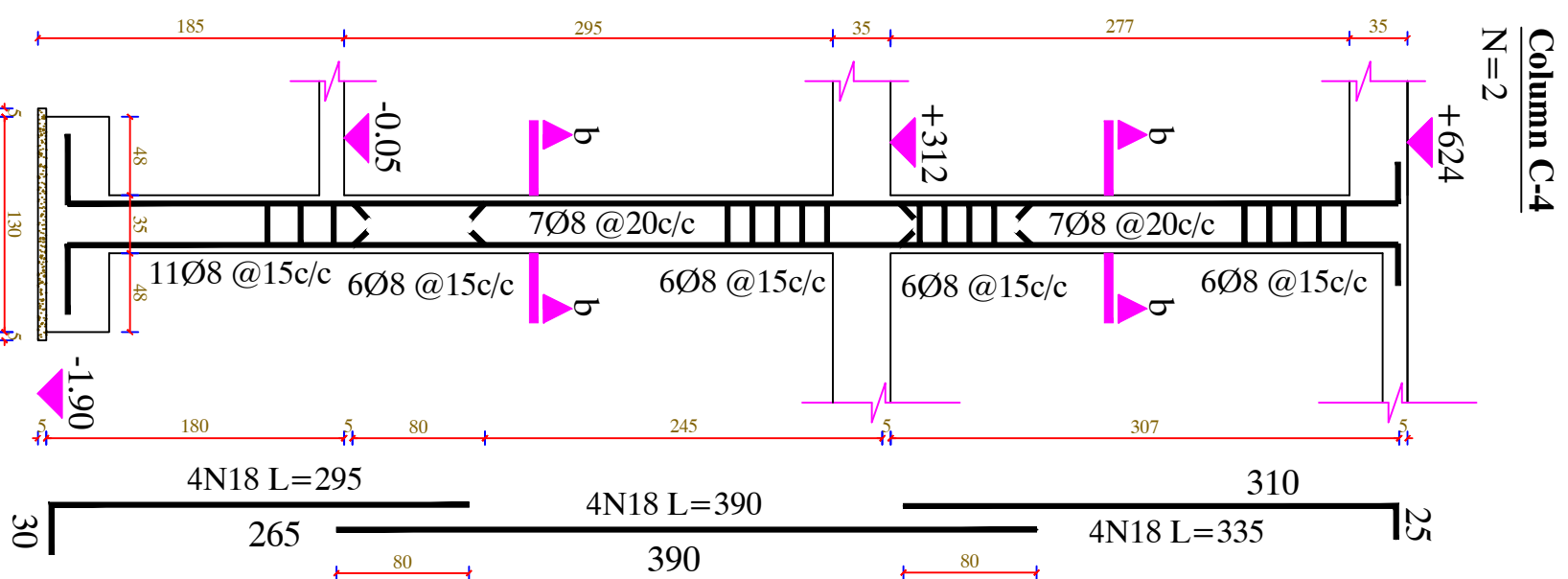
23  
48

PROJECT NAME

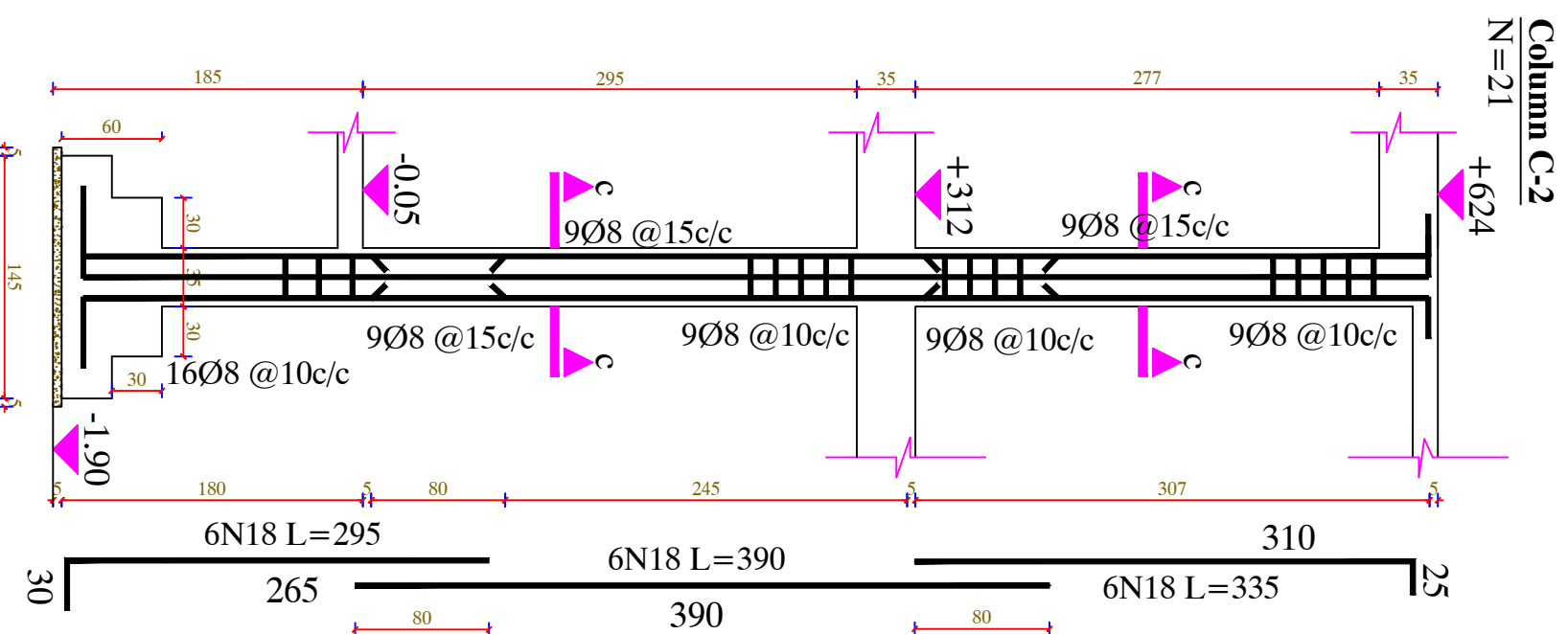
16 CLASS ROOM SCHOOL IRON SHEET.  
COLUMN SECTION DETAILS



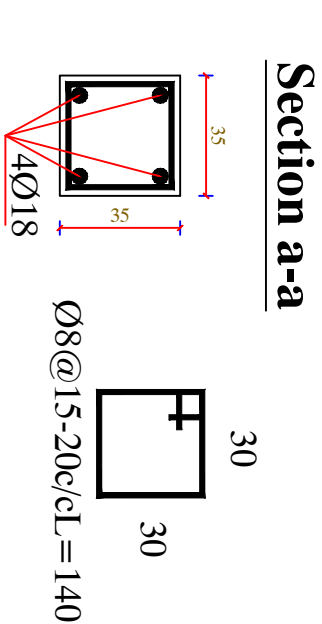
**Column C-1**  
**N=8**



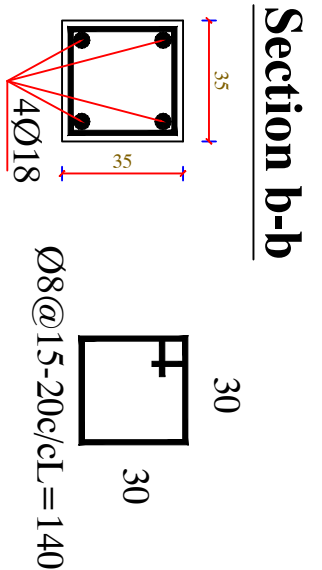
**Column C-4**  
**N=2**



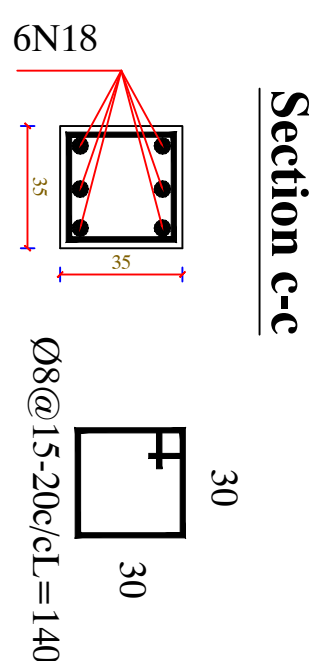
**Column C-2**  
**N=21**



## Section a-a



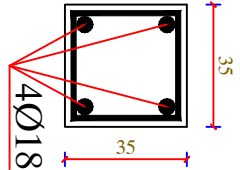
## Section b-b



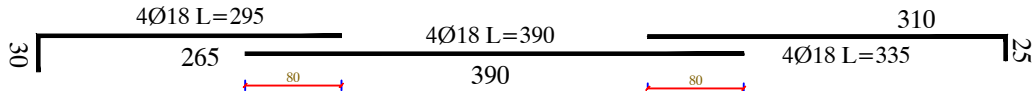
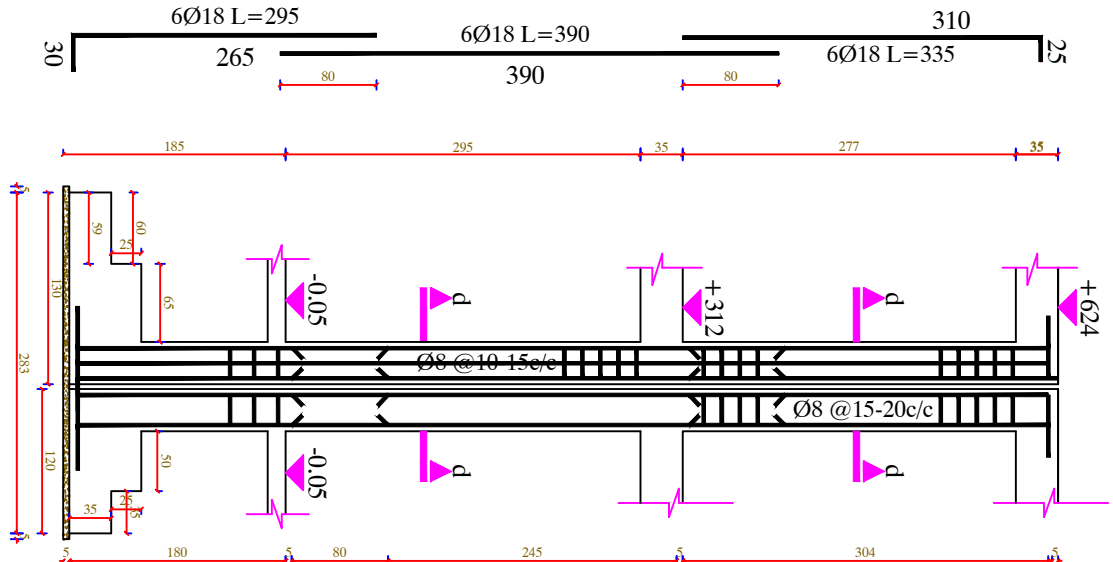
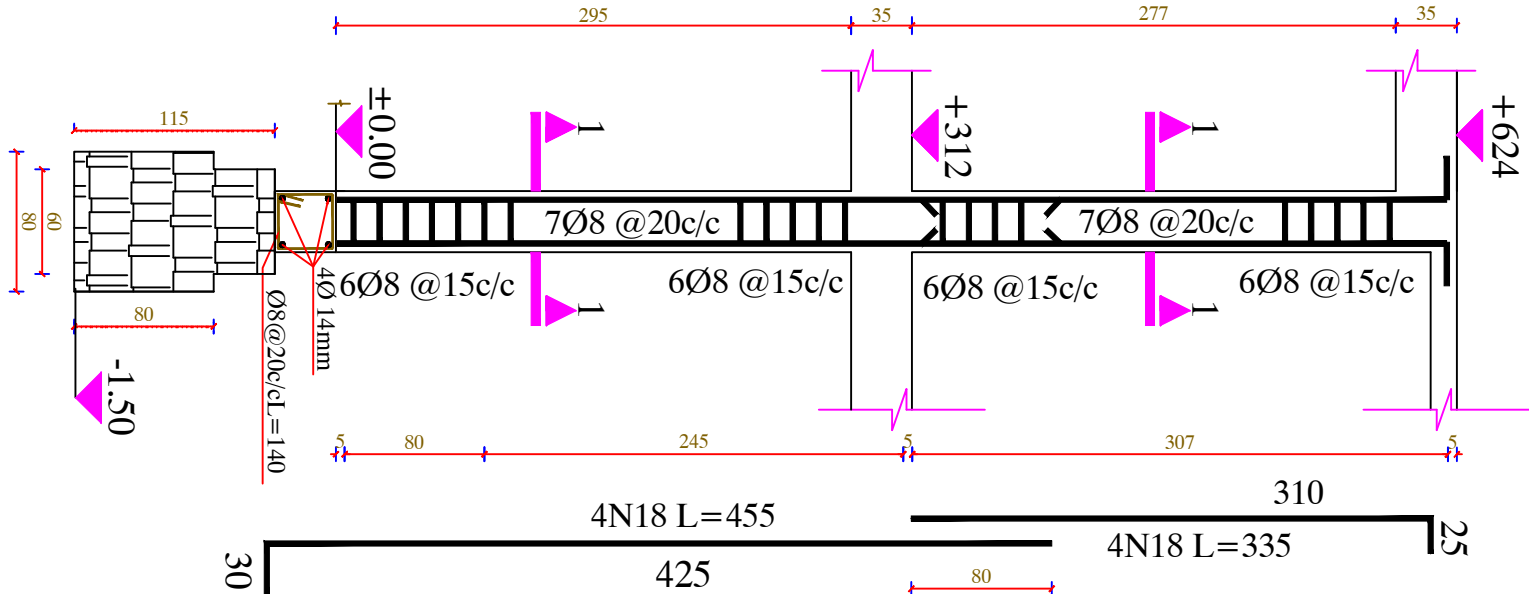
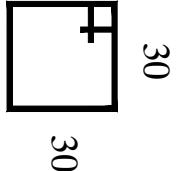
## Section c-c

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN AH.FEROZ.TAHIRY		APPROVED:Doc/She		DRAWING No		PROJECT NAME 16 CLASS ROOM SCHOOL IRON SHEET.	
		RC/DISEIGN ENG.FATIMA		SCALE AS SHOWN (A3)		DATE 25.6.2006		SHEET No 24 / 48		DRAWING TITTLE COLUMN SECTION DETAILS	
		TECH.-APPROVED BY ENG.AB.MATIN MAQOOL									

## Section 1-1

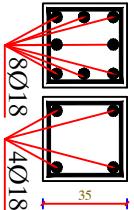


Ø8@a15-20c/cL=140

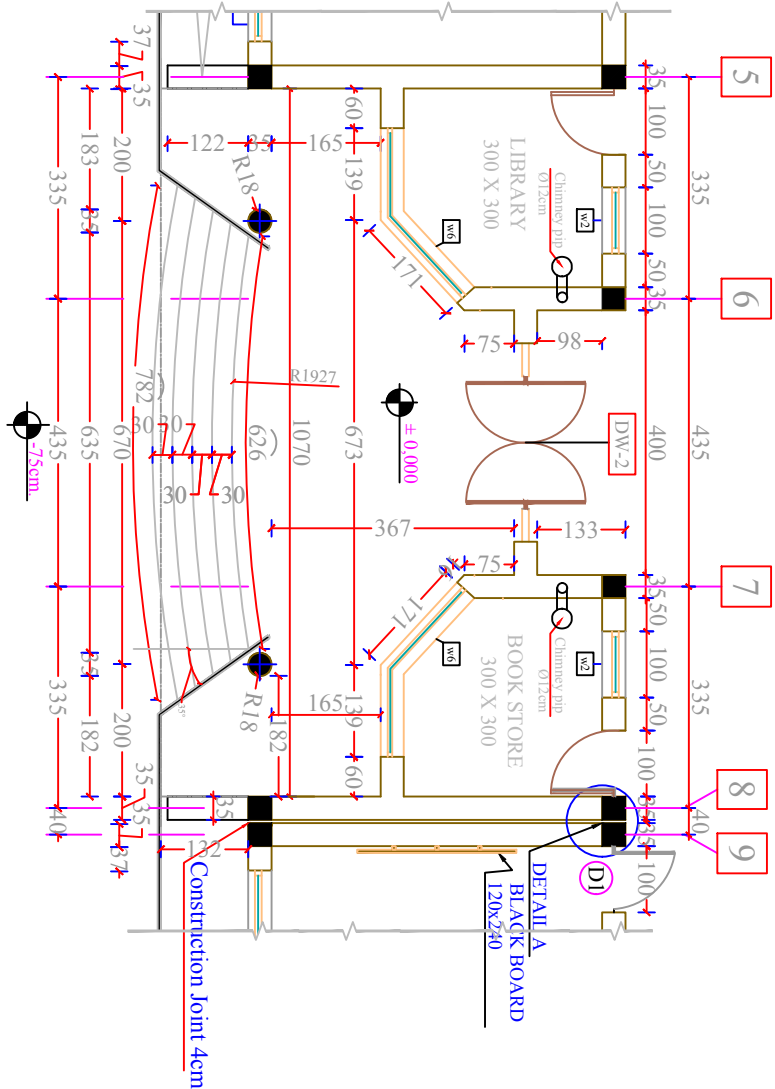


**Column C-6-C8**  
**N=1**

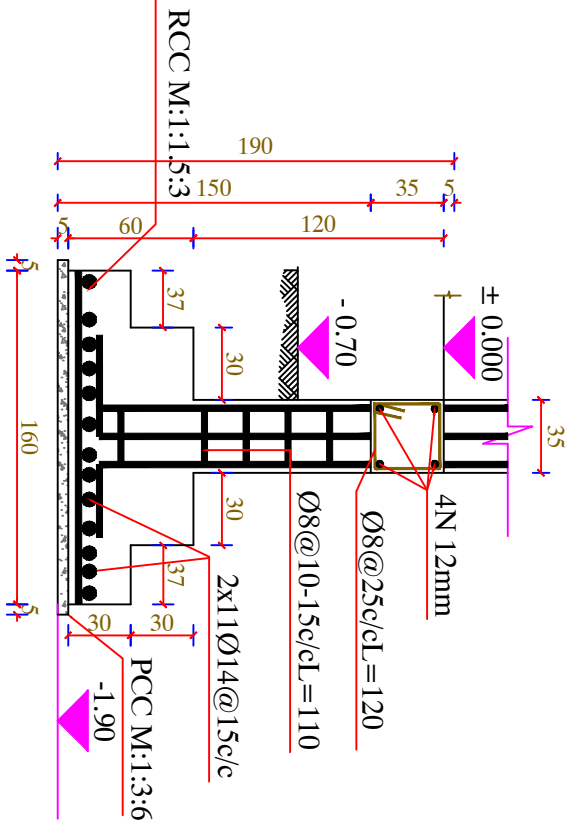
## **Section a-a**



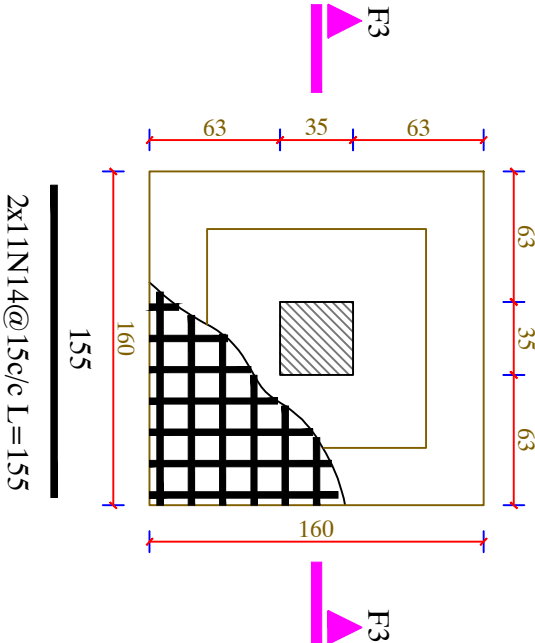
Ø8@15-20c/cL=140



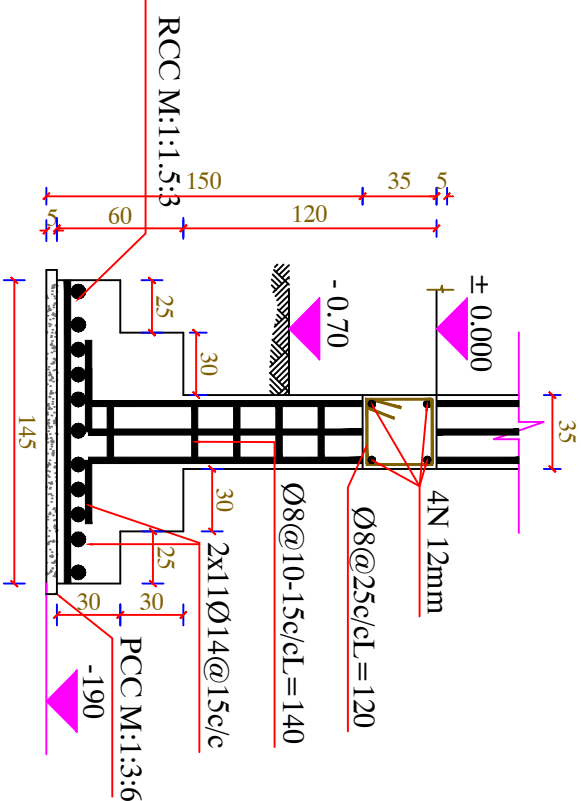
Sec. F3-F3



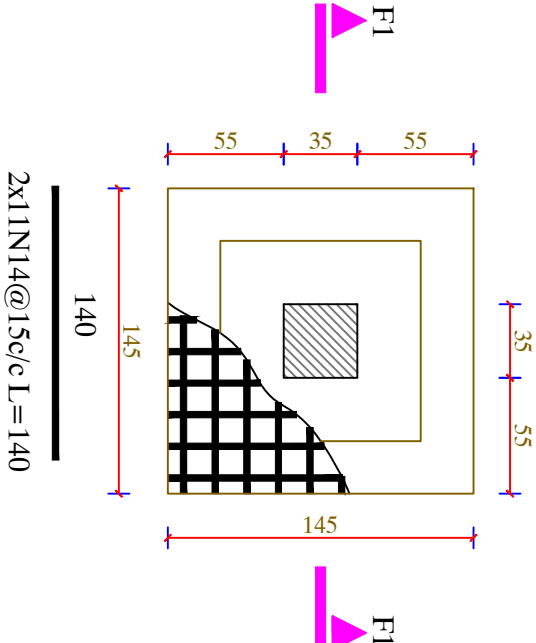
Footing FC-5  
N=3



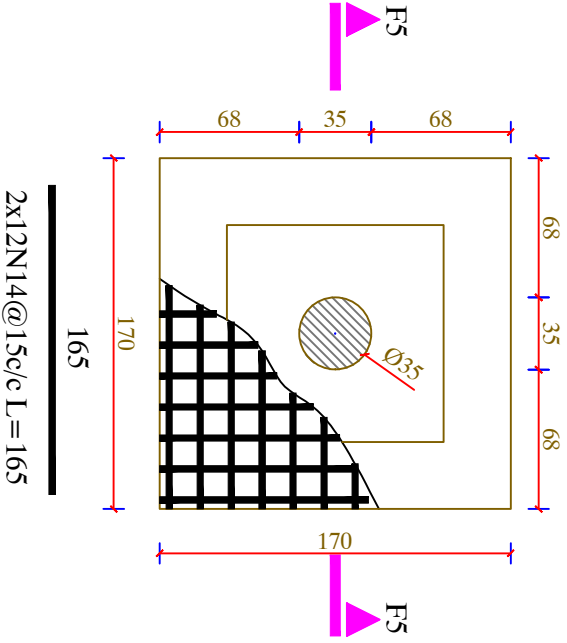
Sec. F1-F1



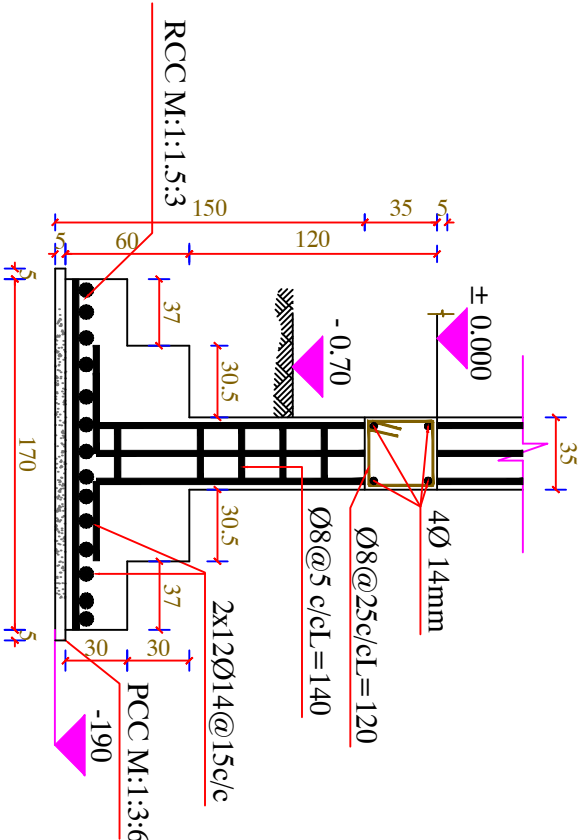
Footing FC-2  
N=21



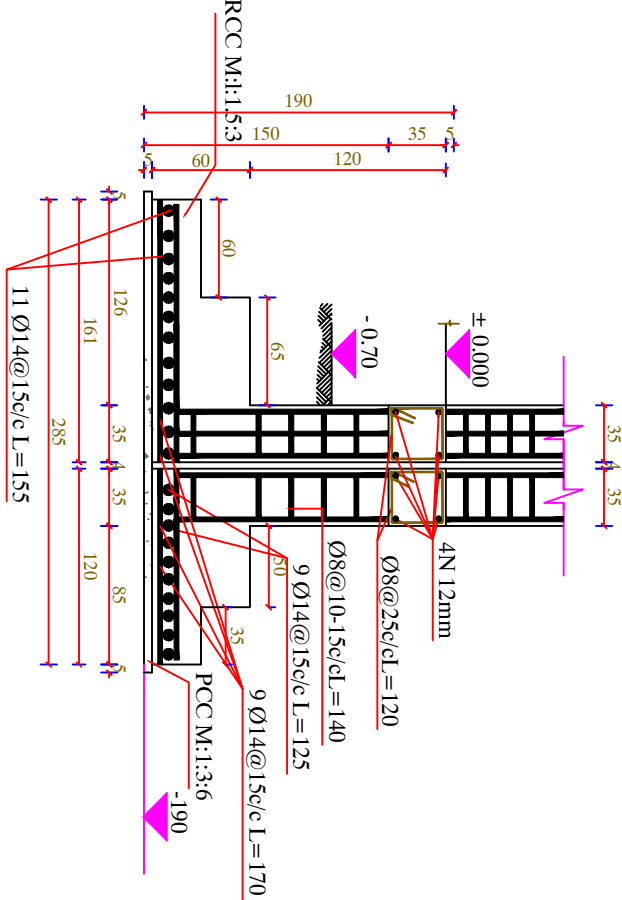
Footing FC-3  
N=2



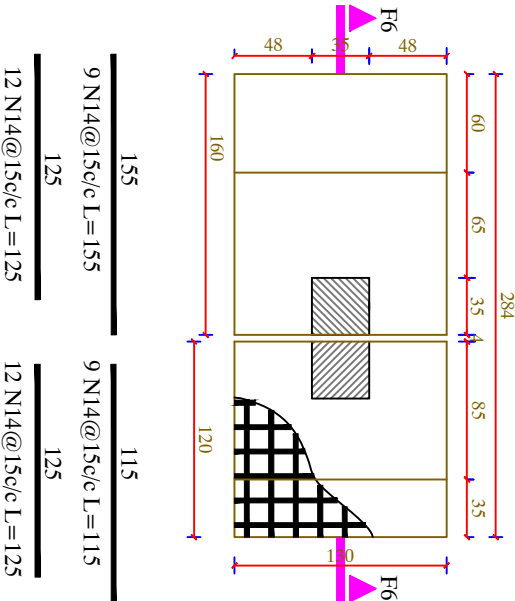
Sec. F3-F3



Sec. F8-C8-F6-C6

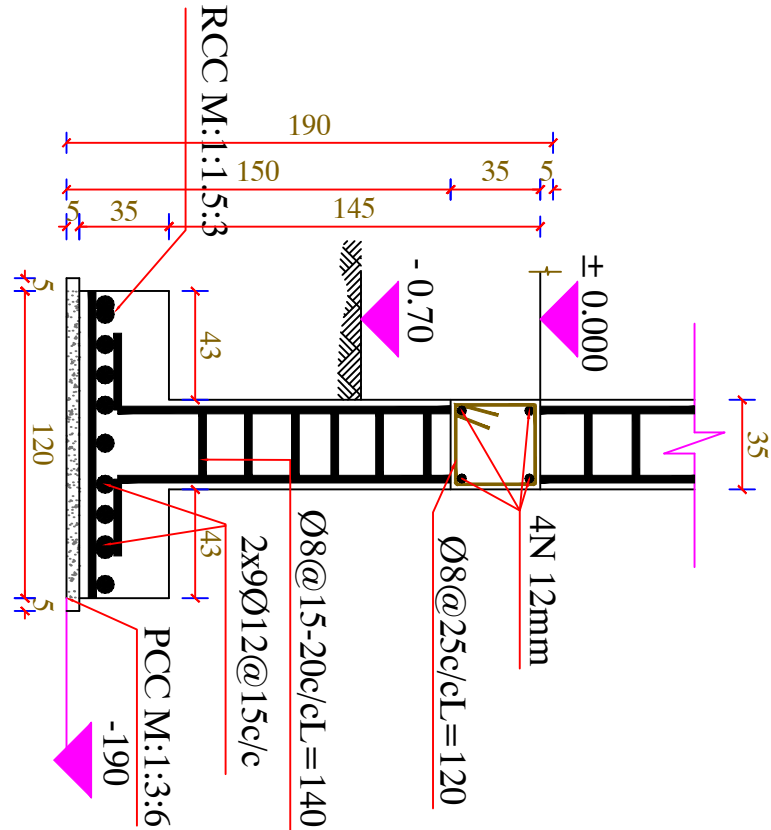


Footing FC-8-FC-6  
N=1

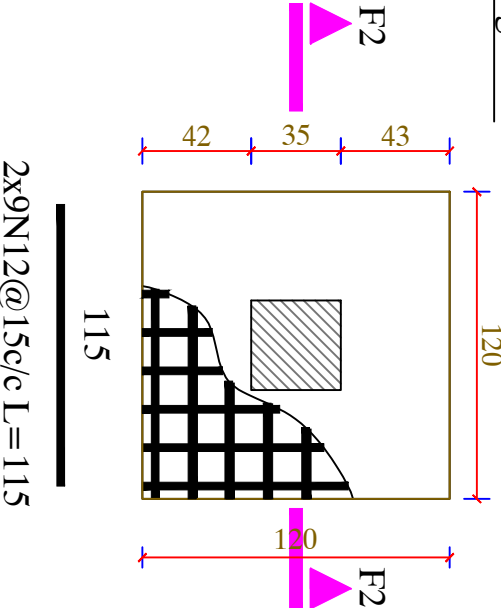




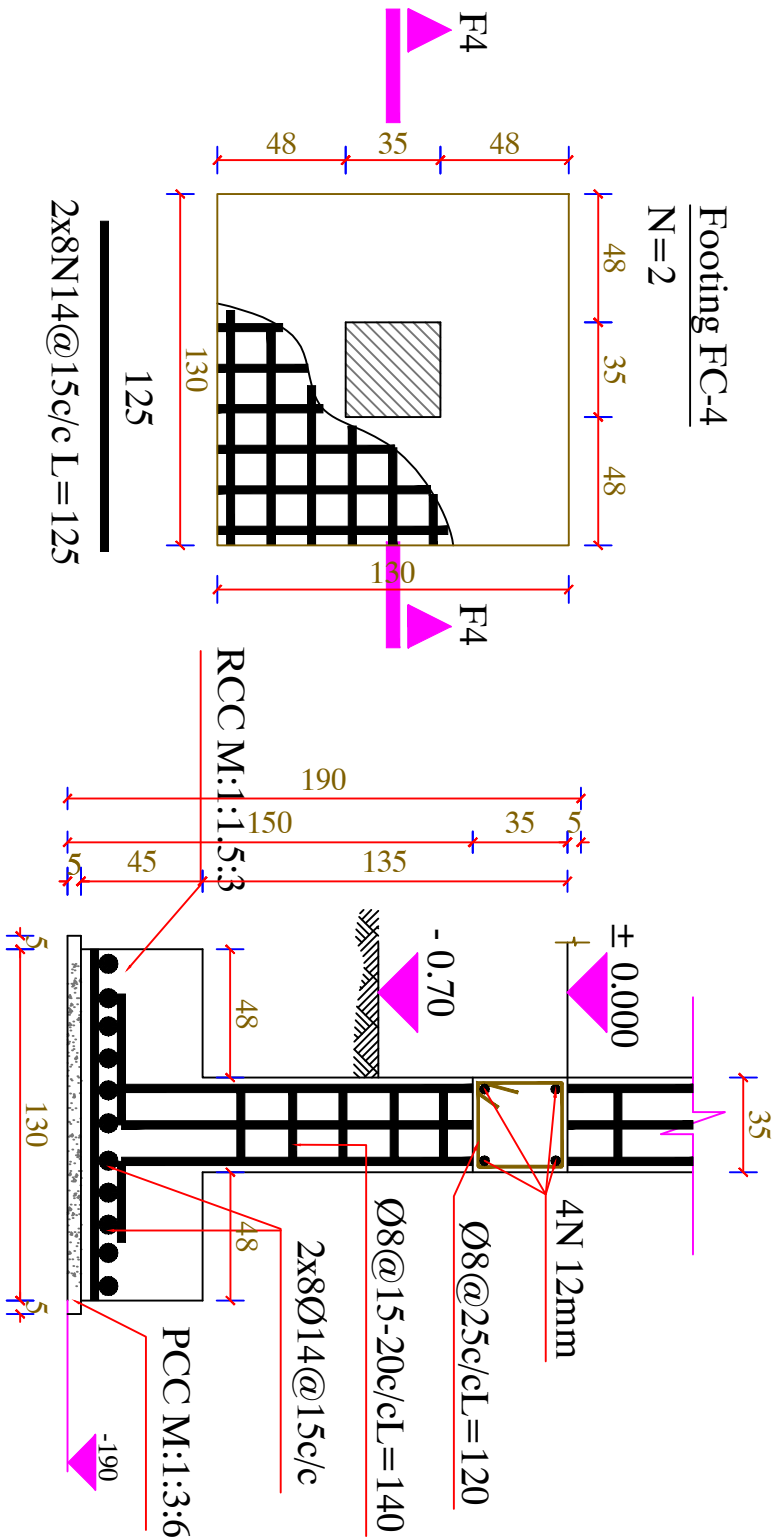
Sec. F2-F2



Footing FC-1  
N=8

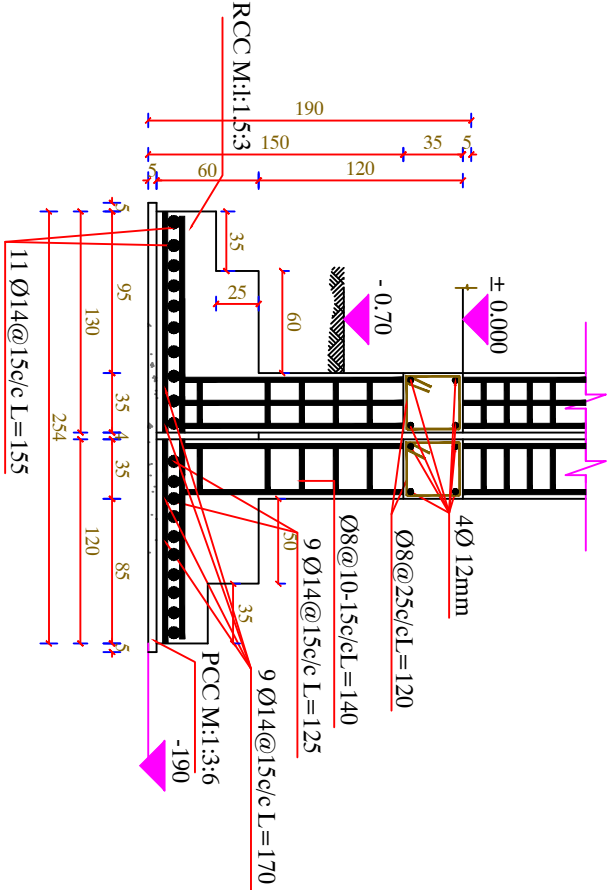


Sec. F4-F4

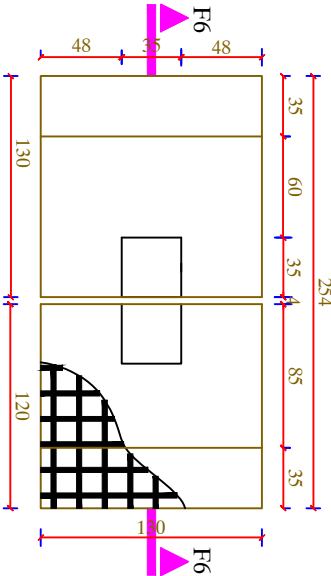


Footing FC-4  
N=2

Sec. F8-C9-F6-C6



Footing FC-9-FC-6  
N=1



125	9 N14@15c/c L=125	115	9 N14@15c/c L=115
125	12 N14@15c/c L=125	125	12 N14@15c/c L=125

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

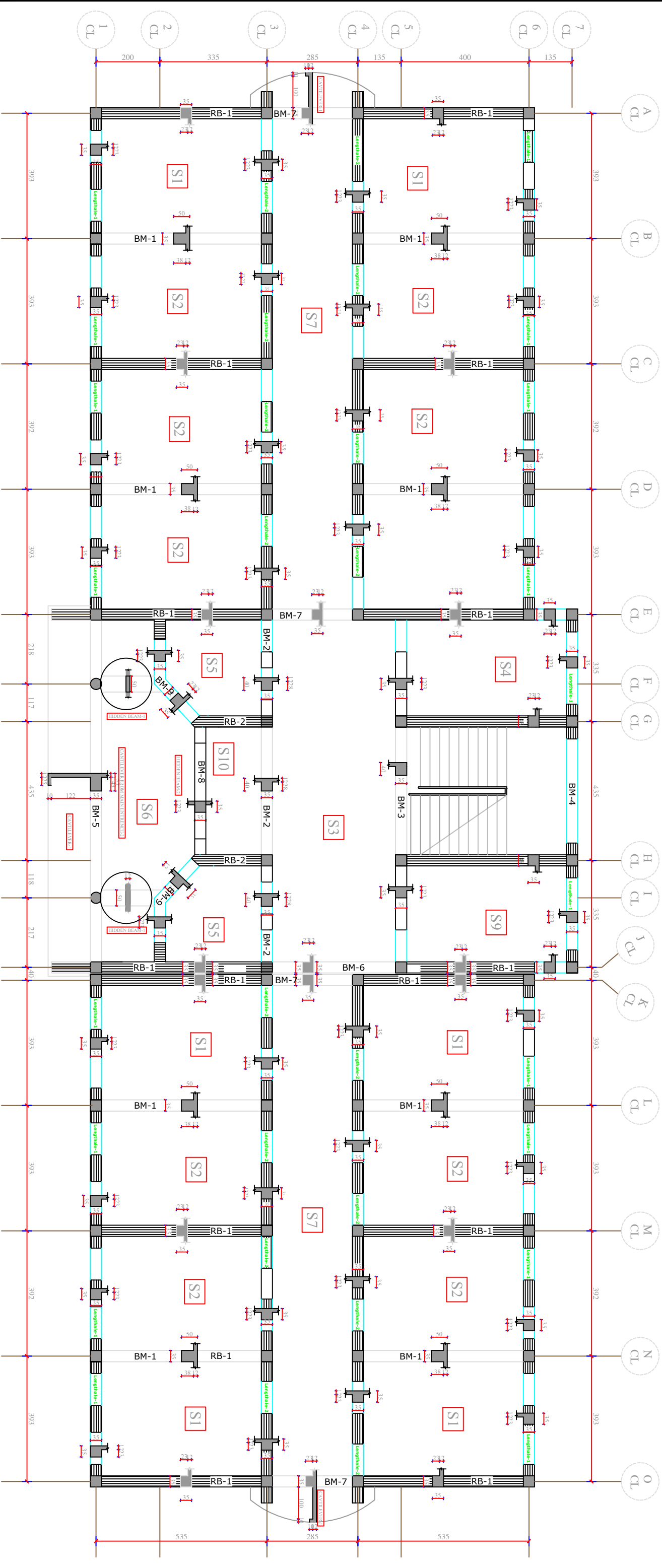
Table of Steel Bars 16 CLASS ROOM

	Ø6	Ø8	N8	N10	N12	N14	N16	N18
Length (M)	650	11628	4464	12598	11153	2045	254	2653
Bar weight (kg)	144	4593	1763	7773	9904	2470	401	5301
Weight +1.05(kg)	152	4823	1852	8162	10399	2594	421	5566
Total Weigh (kg)	36155 kg							

NOTE:

- All the steel bars are class (AII).

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT DESIGN REVISION		APPROVED/checked		PROJECT NAME	
				ALLHEROZ TAHIRY		ENG. YONUS YOUSFZAI		16 CLASS ROOM SCHOOL IRON SHEET.	
				ENG. EATIMA		AS SHOWN (AS)			
				TECH. APPROVED BY		DATE			
				ENG. AB. MATIN MAQOL		25.6.2006			
								DRAWING No	
								28	
								48	
								DRAWING TITLE	
								LIST OF BARS & SPECIFICATION.	



GROUND FLOOR PLAN OF STUTTERING

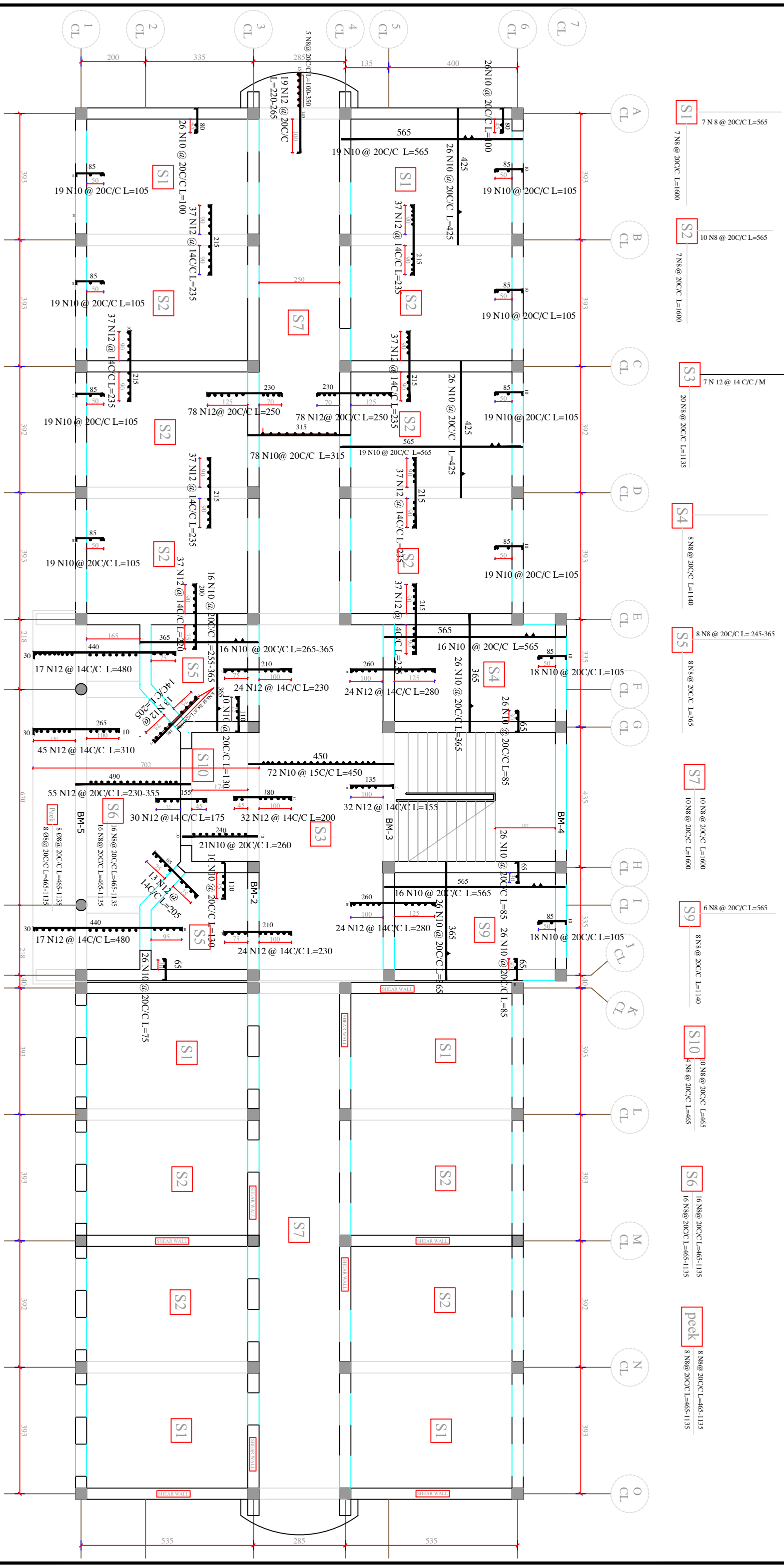
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN	AH.FEROZ TAHIRY	APPROVED/DATE	ENG.YONUS YOUSSEFZAI	DRAWING No	PROJECT NAME	
				RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)	SHEET No	16 CLASS ROOM SCHOOL IRON SHEET.	
				TECH. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	25.6.2006		GROUND FLOOR OF SHUTTRING PLAN	





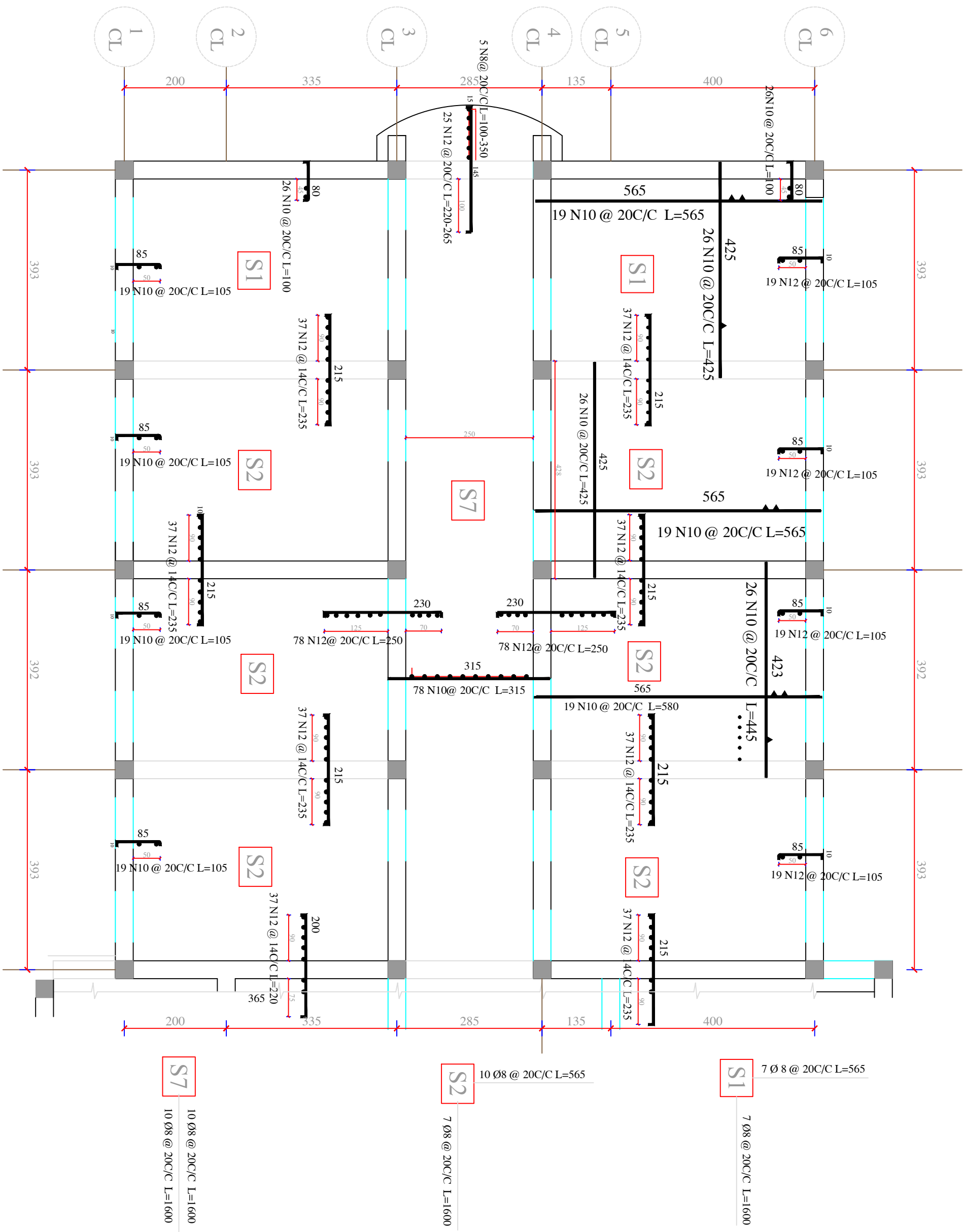
REINFORCEMENT SLAB CONCRETE AT LEVEL +315cm.

REINFORCING PLAN AT LEVEL

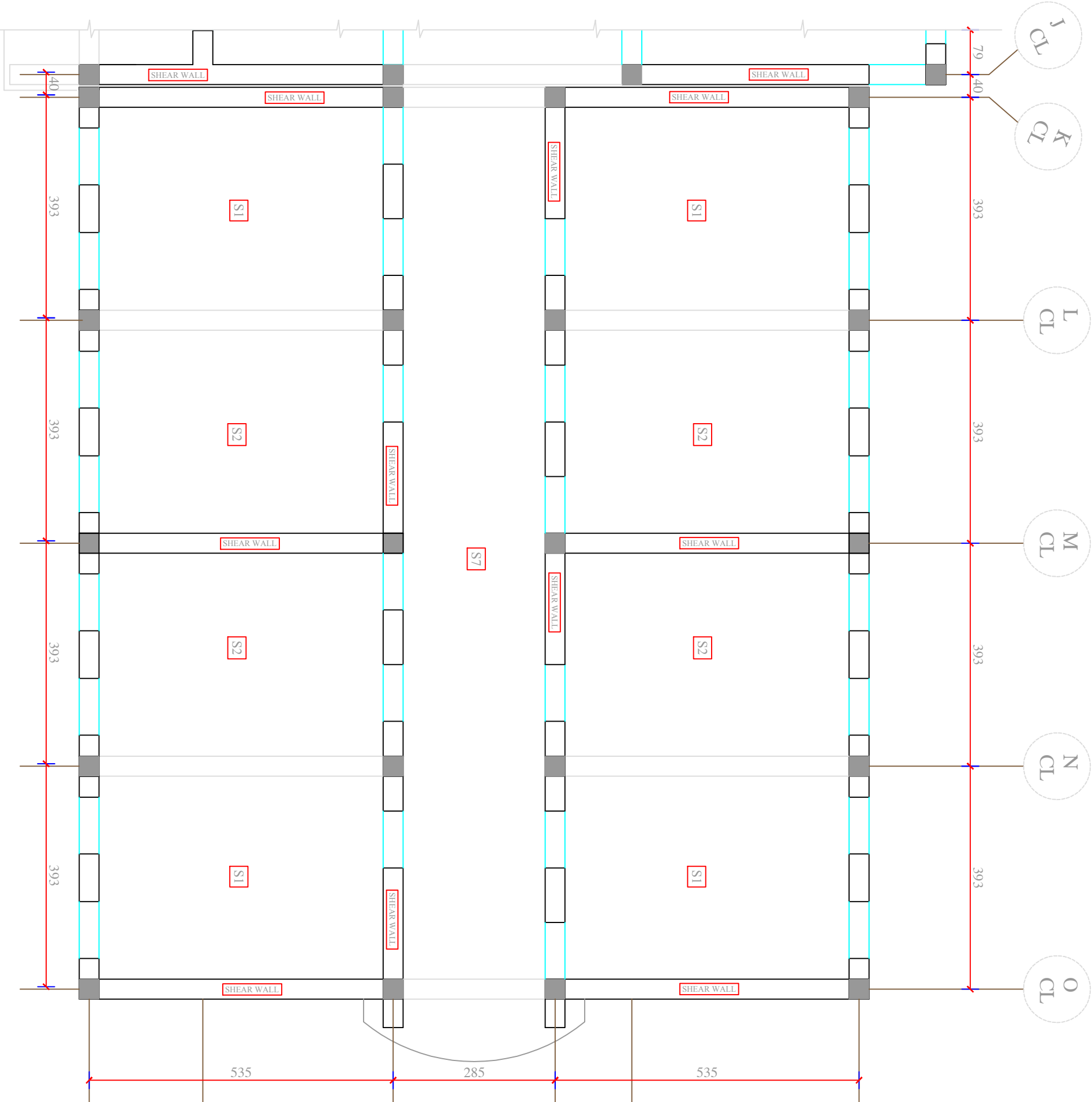


MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RC/DESIGN TECH. APPROVED BY		AH, FERROZ TAHIRY ENG. FATIMA ENG. AB. MATIN MAQOL		APPROVED Doc/Mod SCALE DATE		ENG. YONUS YOUSFZAI AS SHOWN (A3) 25.6, 2006		DRAWING No SHEET No		32 48		PROJECT NAME DRAWING TITLE		16 CLASS ROOM SCHOOL IRON SHEET. KEY RCC SLAB DESIGN PLAN	
---	--	--	--	--	--	--	--	-----------------------------------	--	--	--	------------------------	--	----------	--	-------------------------------	--	--	--

**KEY PLAN REINFORCEMENT SLAB CONCRETE AT LEVEL +315cm.**







KEY PLAN OF REINFORCEMENT SLAB CONCRETE AT LEVEL +315cm.

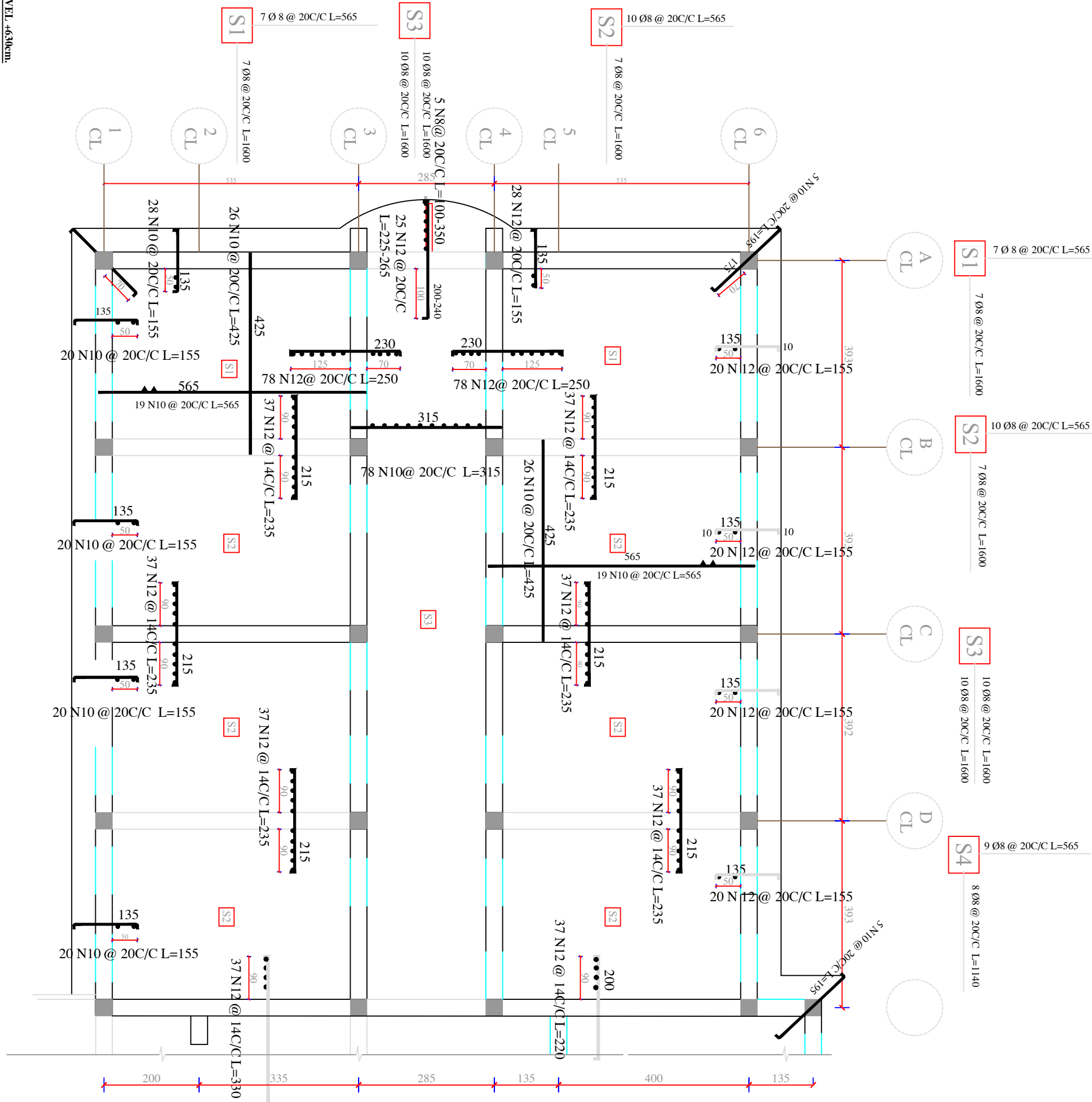
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		PROJECT NAME		16 CLASS ROOM SCHOOL IRON SHEET.	
		ARCHITECT/DESIGN	AHFEROZ TAHIRY	APPROVED/Date/Inc	DRAWING No	34 48	
		RCC/DESIGN	ENG.FATIMA	SCALE			AS SHOWN (A3)
		TECH.-APPROVED BY	ENG.AB.MATTIN MAQOL	DATE			25.6.2006
				DRAWING TITLE		KEY RCC SLAB DESIGN PLAN	






MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN		AH, FERROZ TAHIRY		APPROV. ED./Doc/She		ENG. YONUS YOUSFZAI		DRAWING No		PROJECT NAME		16 CLASS ROOM SCHOOL IRON SHEET.	
				RCC/DESIGN		ENG. FATIMA		SCALE		AS SHOWN (A3)		SHEET No		DRAWING TITLE		KEY FIRST FLOOR RCC SLAB DESIGN	
				TECH. APPROVED BY		ENG. AB. MATIN MAQOL		DATE		25.6.2006							

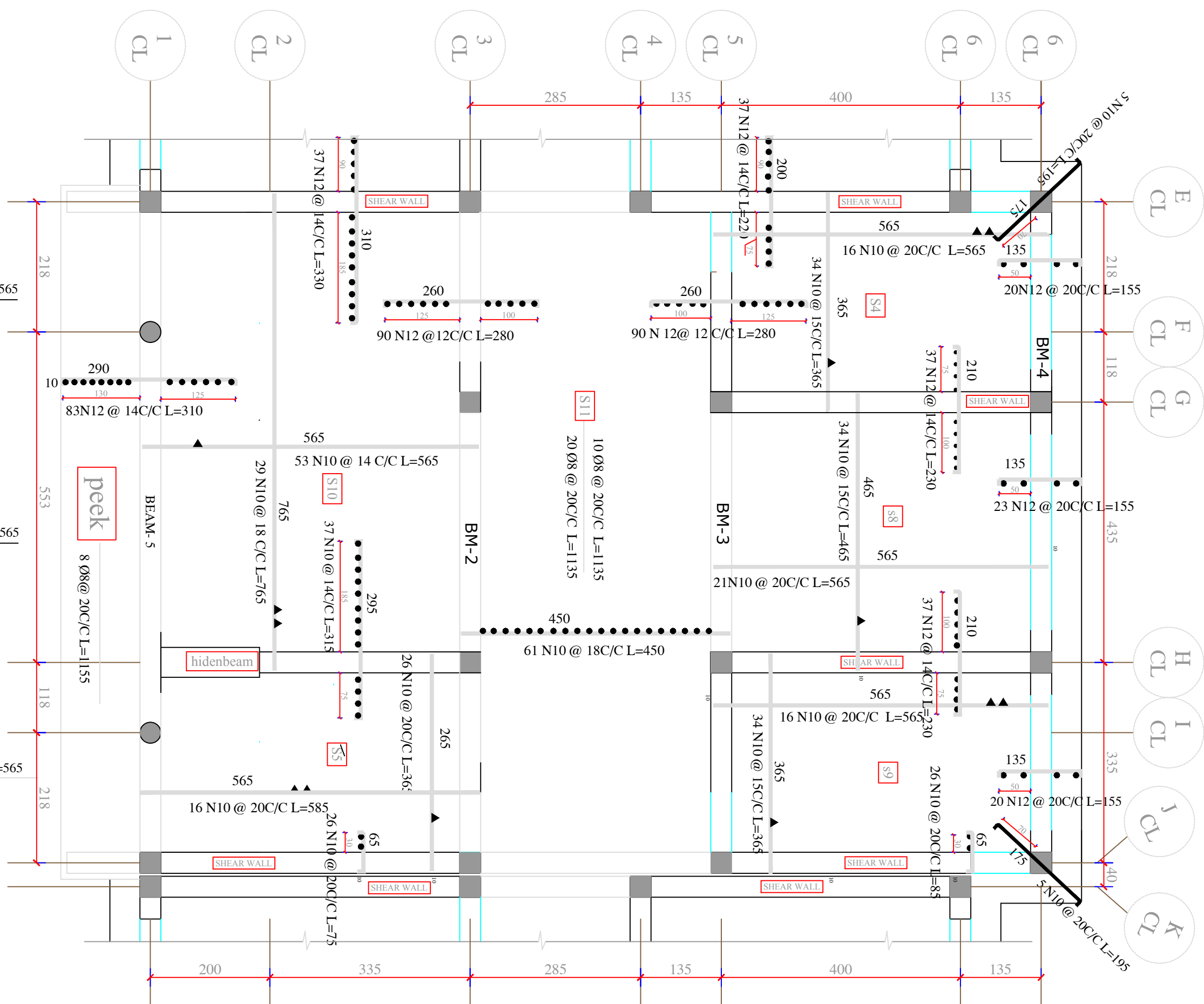
**KEY PLAN REINFORCEMENT SLAB CONCRETE AT LEVEL +630cm.**



	5 N10 @ / M
	10 N8 @ 20C/C L=565

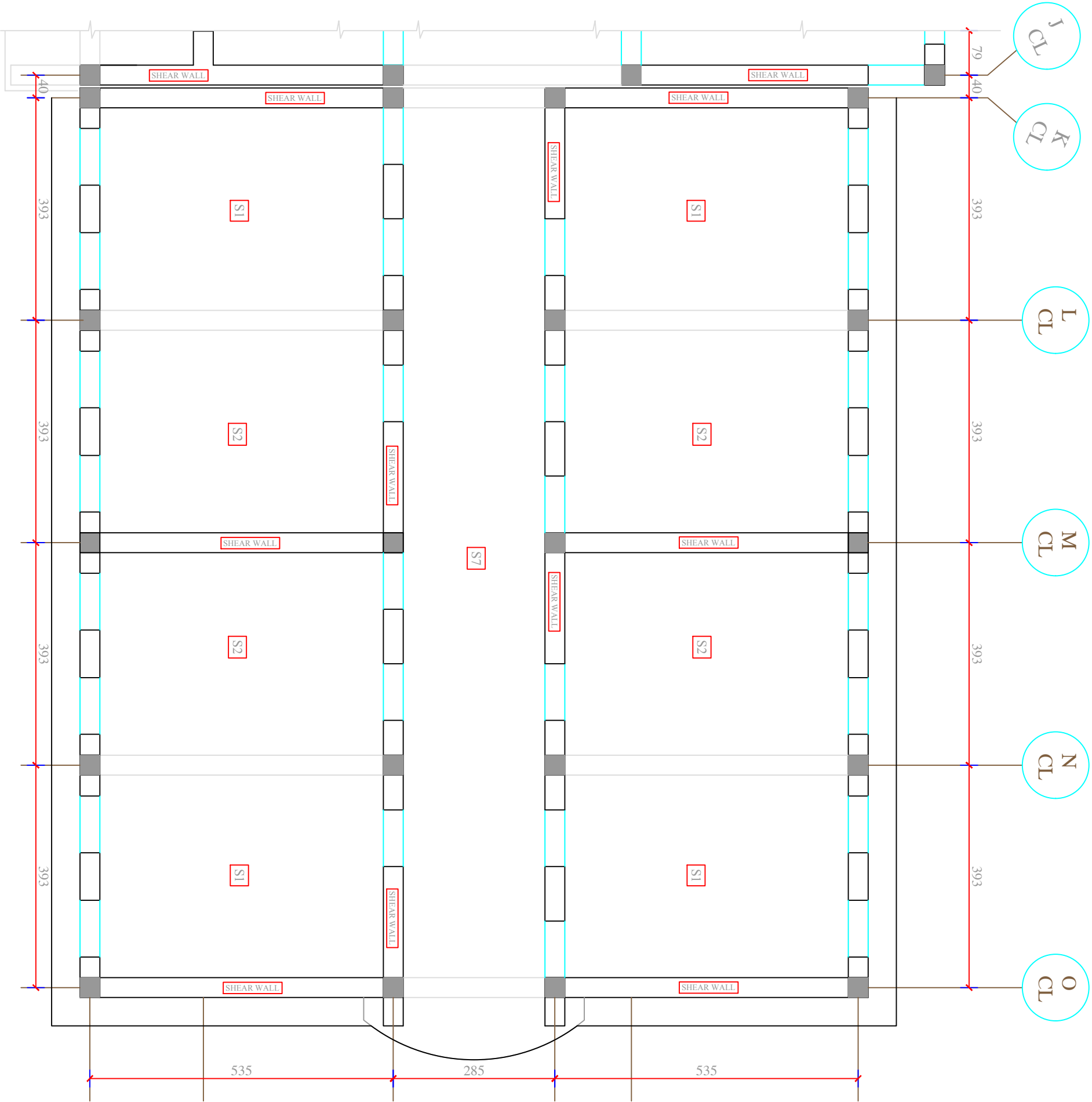
5 N10 @ / M  
6 N8 @ 20C/C L= 565

S4 5 N10 @ / M  
9 Ø8 @ 20C/C L=565



**REINFORCEMENT SLAB CONCRETE AT LEVEL +315cm.**

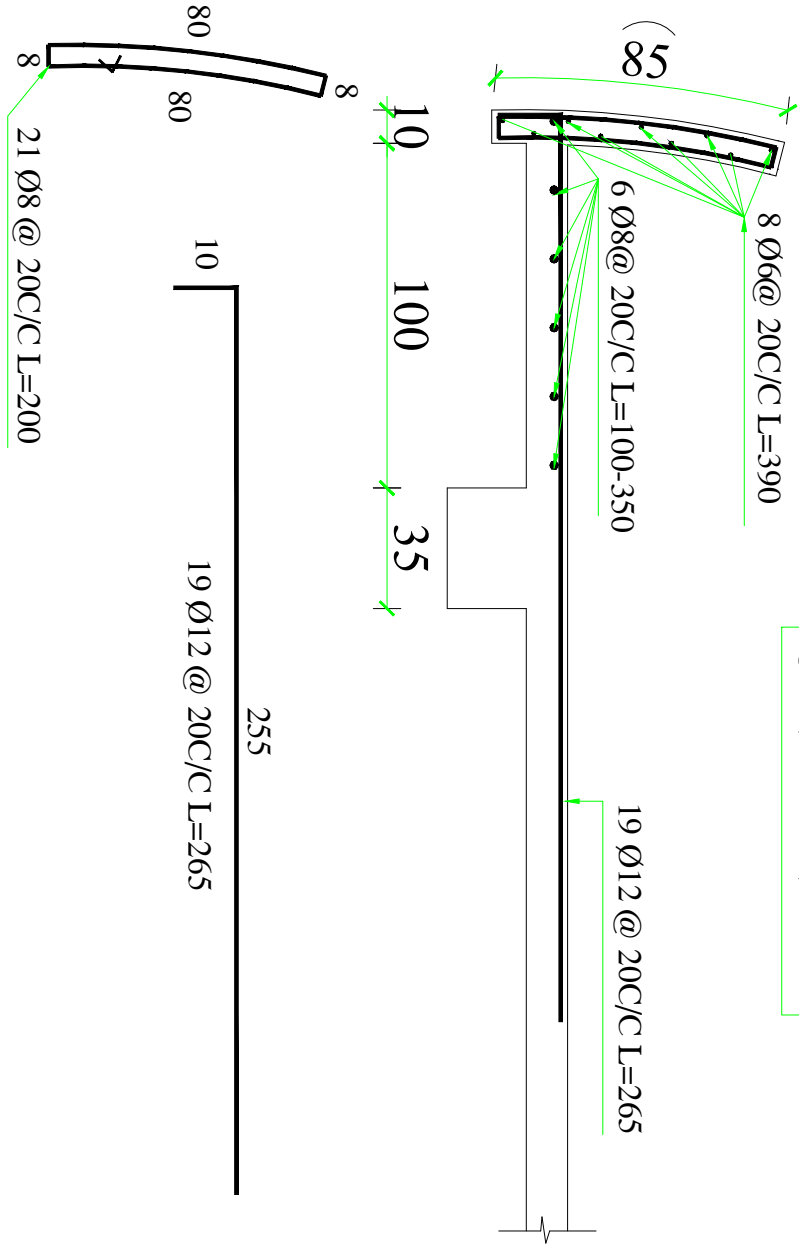
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION	STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGNER	APPROVED (Date)	PROJECT NAME
	REVISION	SCALE	ENG. YONUS YOUSSEFZAI	DRAWING No	
		ENG. FATIMA	AS SHOWN (A3)		16 CLASS ROOM SCHOOL IRON SHEET
	TECH. APPROVED BY	DATE	25.02.2006	SHEET No	KEY FIRST FLOOR RCC SLAB DESIGN
	ENG. AB.MATIN MAQOL				



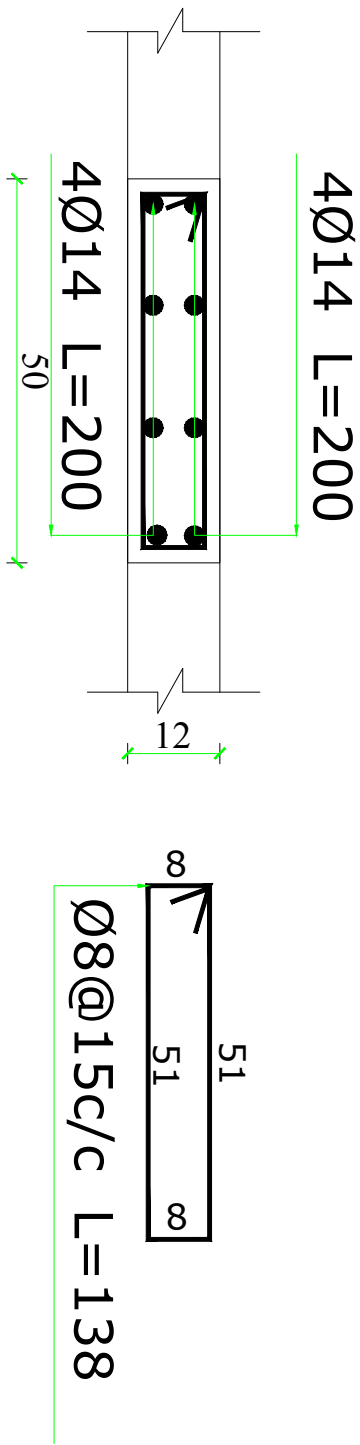
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN		AH,FEROZ TAHIRY		APPROVED/Date/No		ENG. YONUS YOUSSEZAI		DRAWING No		PROJECT NAME		16 CLASS ROOM SCHOOL IRON SHEET.	
				RCC/DESIGN		ENG. FATIMA		SCALE		AS SHOWN (A3)							
				TECH- APPROVED BY		ENG. AB. MATIN MAQOOL		DATE		25.6.2006		SHEET No		38 48		DRAWING TITLE	
																KEY FIRST FLOOR RCC SLAB DESIGN	



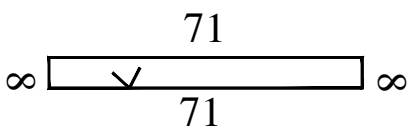
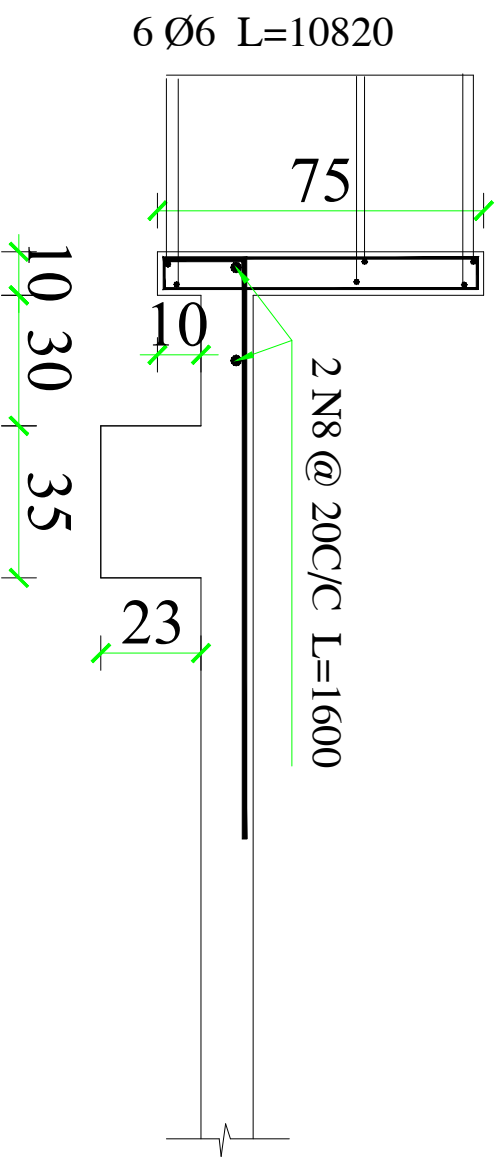
CANTILEVER-1



HIDDEN BEAM-2



CANTILEVER FROM PARAPIT-3

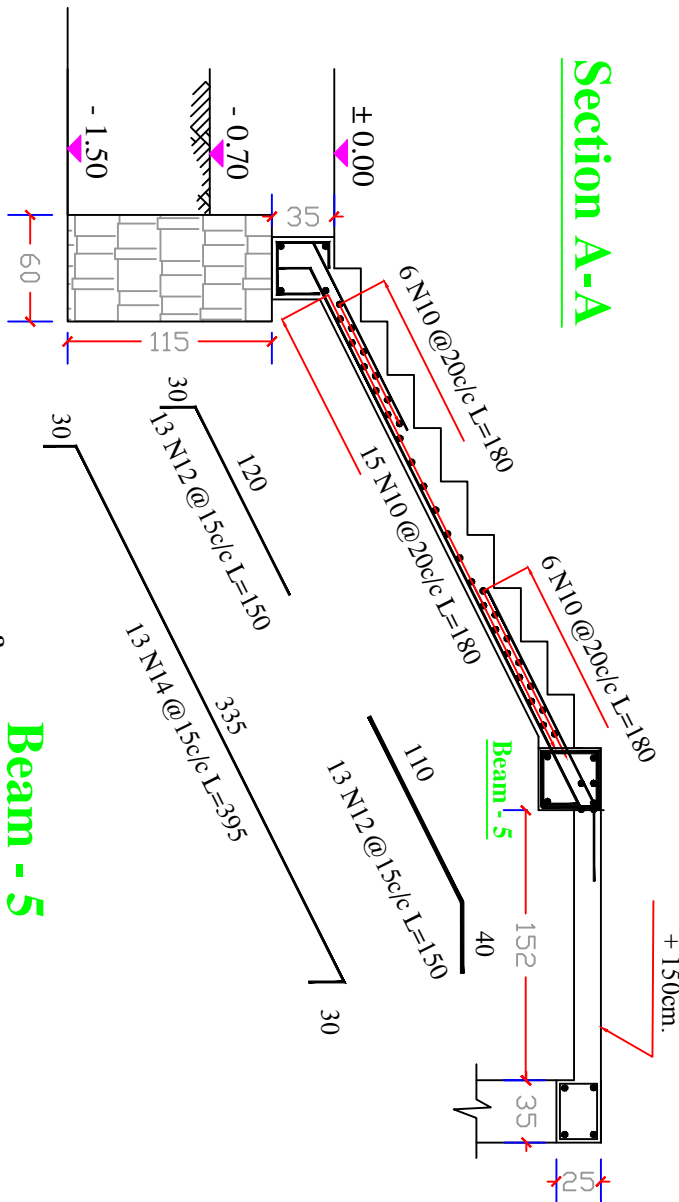


540 Ø8 @ 20C/C L=175

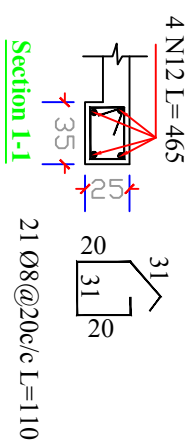
MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION	STANDARD SCHOOL DESIGN IN AFGHANISTAN	ARCHITECT/DISIGN	AH FEROUZ TAHIRY	APPROVED Date/Sign	ENG. YONUS YOUSSEFI	DRAWING No	PROJECT NAME
		RCC/DESIGN	ENG. FATIMA	SCALE	AS SHOWN (A3)		
		TECH. APPROVED BY	ENG. AB. MATIN MAQOOL	DATE	25.6.2006	SHEET No	DRAWING TITLE
						39 48	
						RCC CANTILEVER PARAPIT WALL	



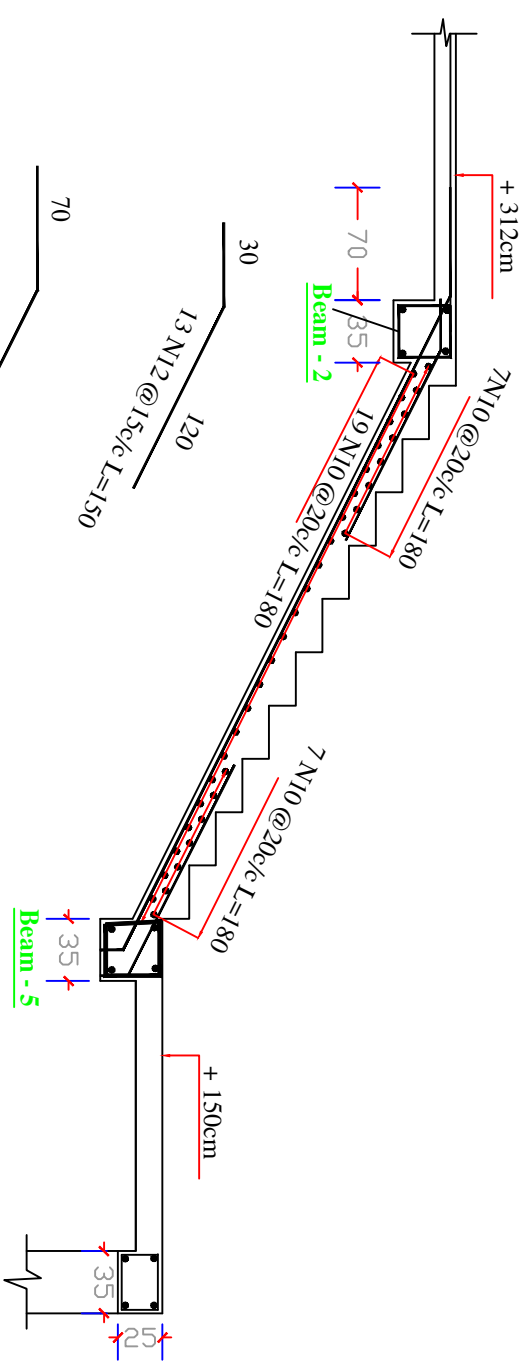
## Section A-A



## Beam - 5



## Section 1-1



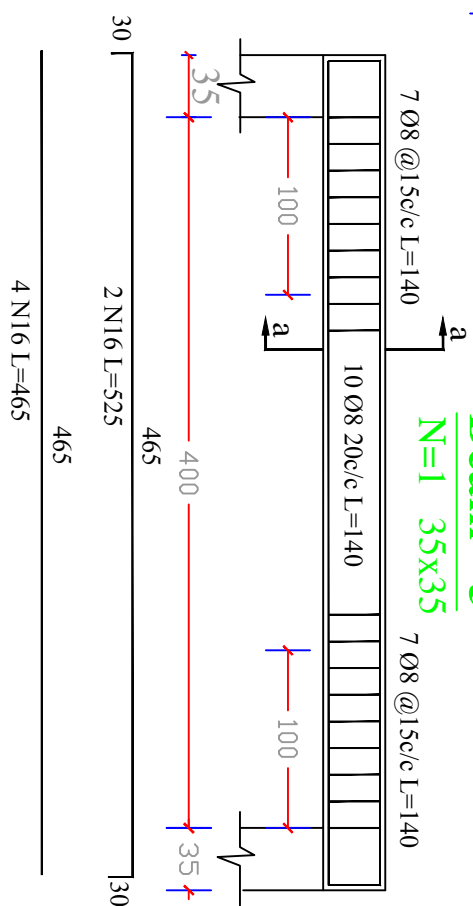
## Beam - 2



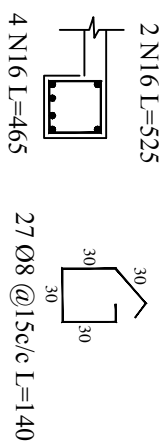
## Beam - 5

## Beam - 5

N=1 35x35



## Section a-a

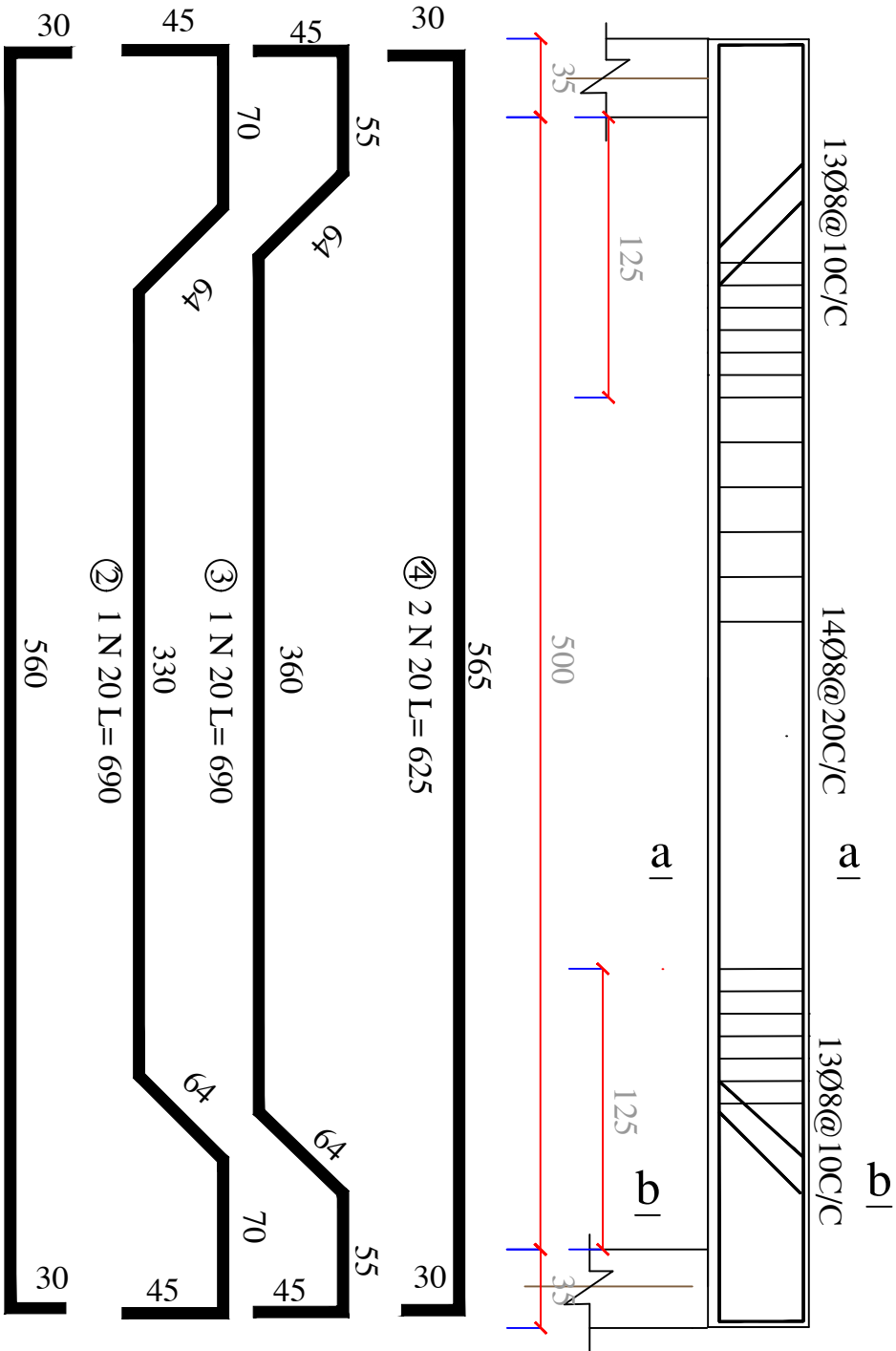


<div>MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION</div>		ARCHITECT/DISIGN		AH FERROZ TAHIRY	APPROVED Doc/Note	ENG. YONUS YOUSFZAI	DRAWING No	<div>PROJECT NAME 16 CLASS ROOM SCHOOL IRON SHEET</div>
		RCC/DISIGN	ENG. FATIMA	SCALE	AS SHOWN (A3)	SHEET No	DRAWING TITTLE RCC STAIRS	
STANDARD SCHOOL DESIGN IN AFGHANISTAN		TECH. APPROVED BY		ENG. AB. MATIN MAQOL	DATE			25.6.2006

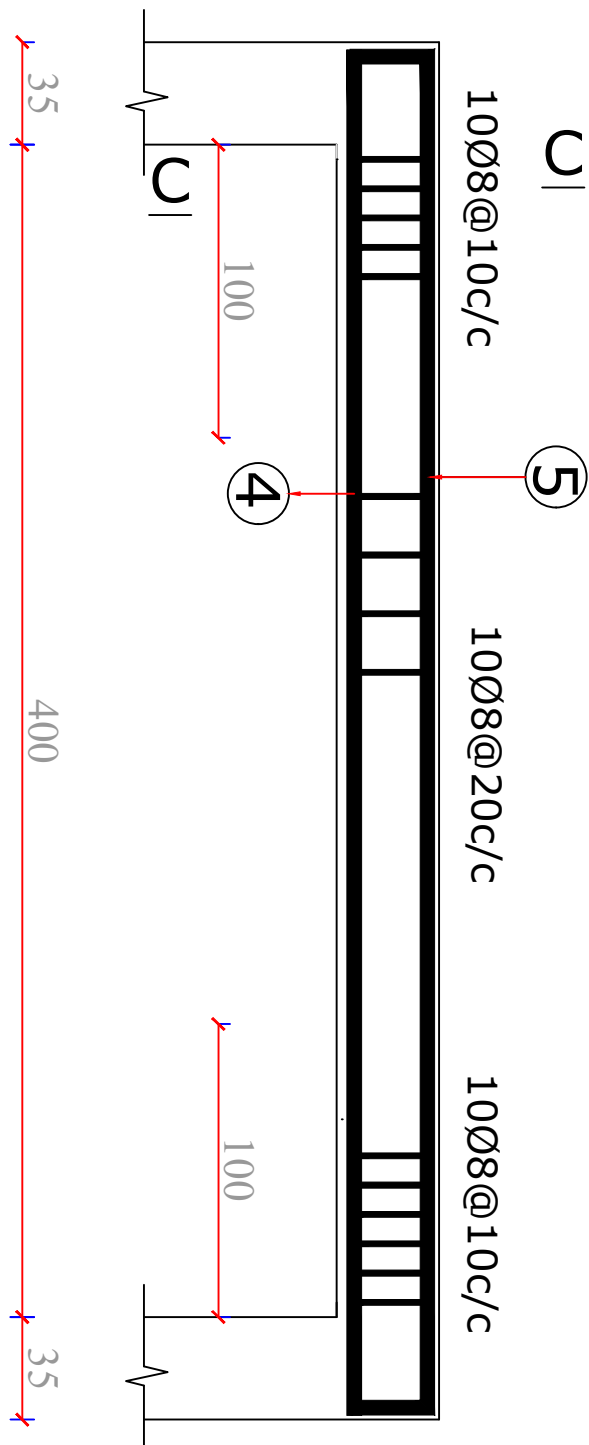




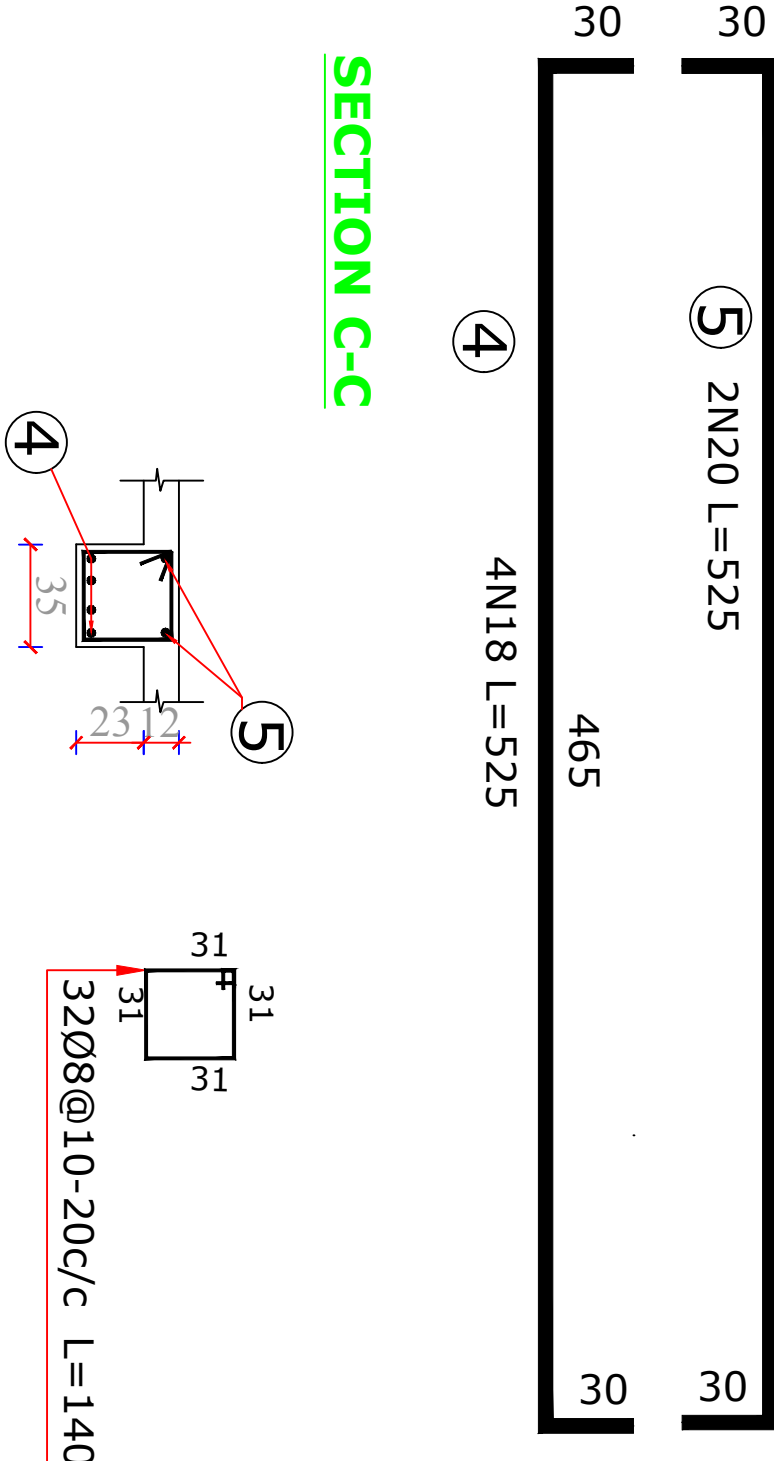
BEAM-1  
N=16 35x50



BEAM-8  
N=1 35x35

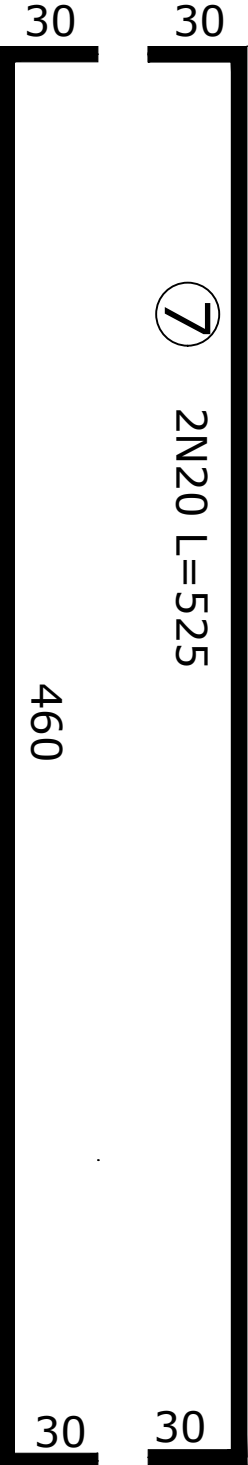
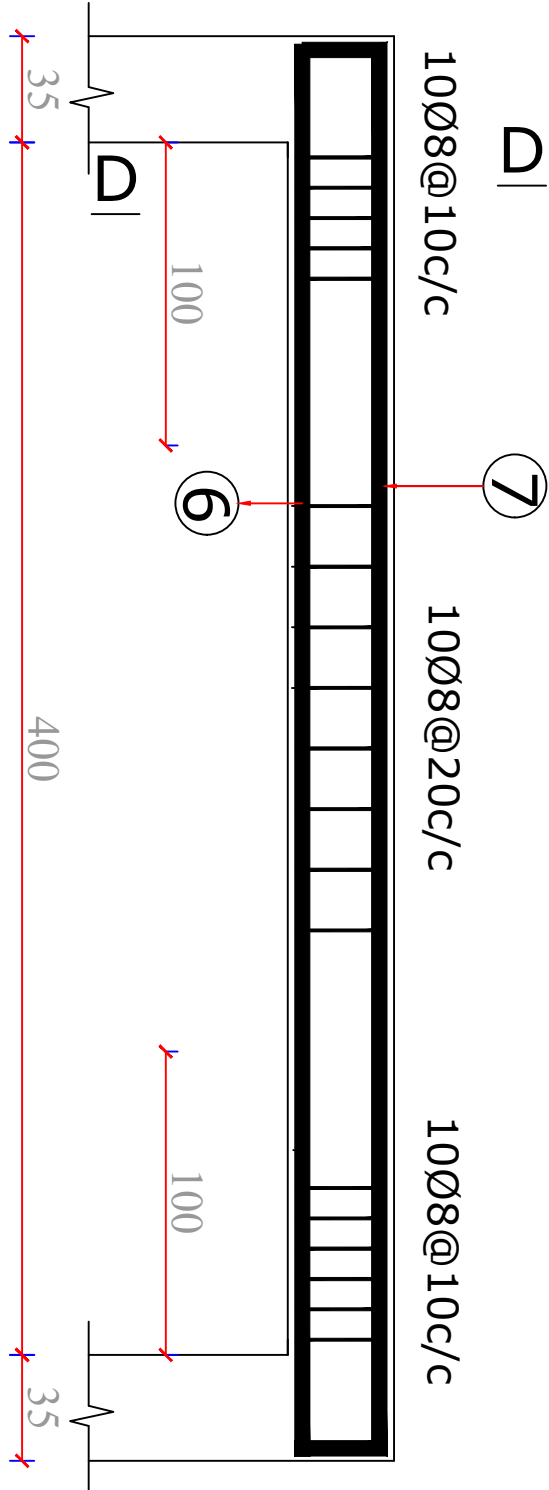


SECTION C-C



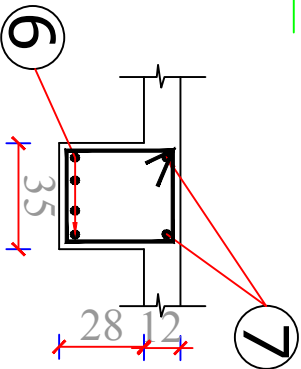
BEAM-3

N=2 35x40



6 4N18 L=520

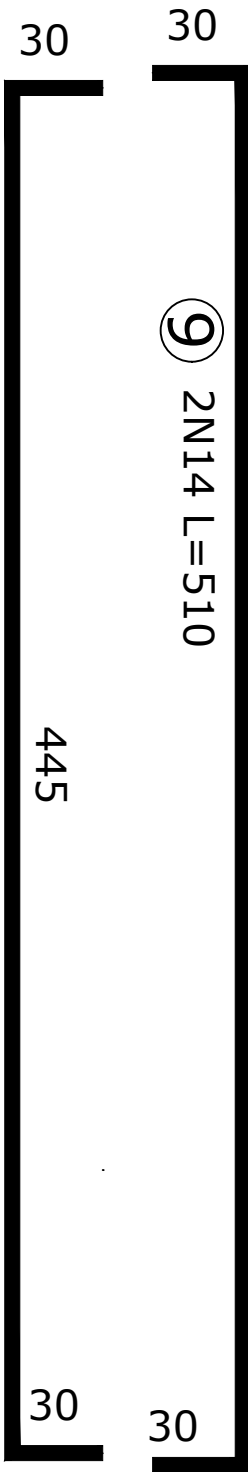
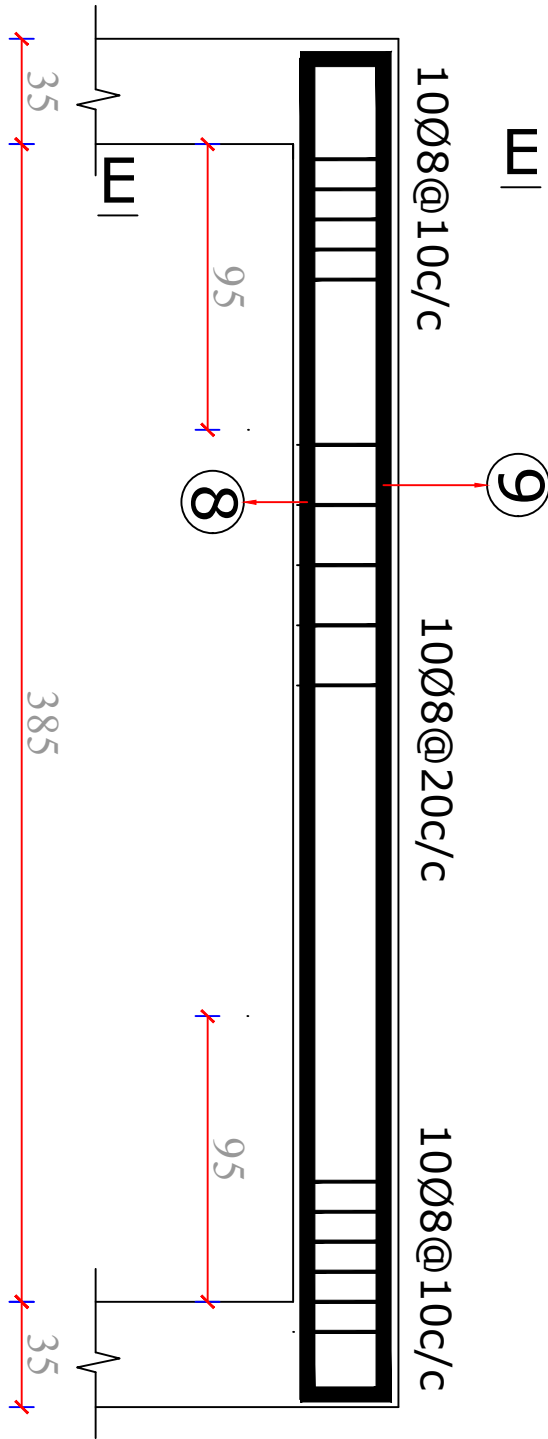
SECTION D-D



32Ø8@10-20c/c L=150

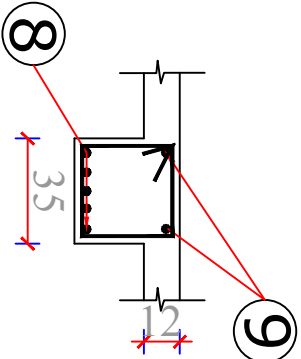
BEAM-6

N=2 35x40



8 4N14x505

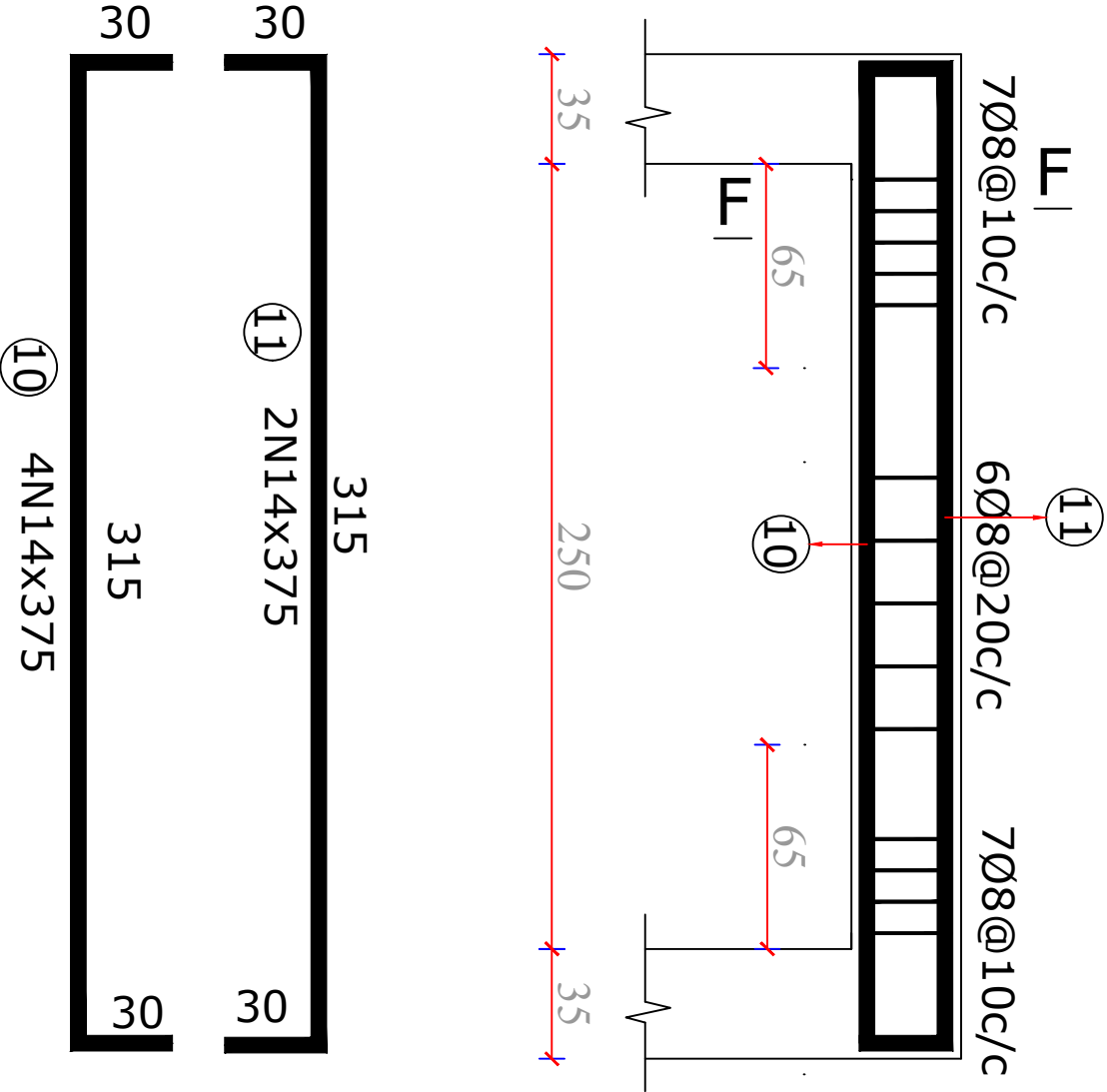
SECTION E-E



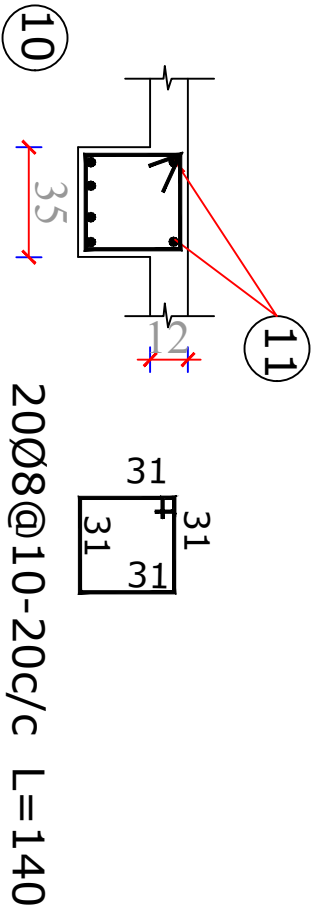
30Ø8@10-20c/c L=150

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN		AH FERROZ TAHIRY		APPROVED/Doc/Msc		ENG. YONUS YOUSSEFZAI		DRAWING No		PROJECT NAME  16 CLASS ROOM SCHOOL IRON SHEET. DETAIL OF BEAM (3,6)	
				RCC/DESIGN		ENG. FATIMA		SCALE		AS SHOWN (AS)		SHEET No			
				TECH-APPROVED BY		ENG. AB. MATIN MAQOOL		DATE		25.6.2006					
<div>43 48</div>															

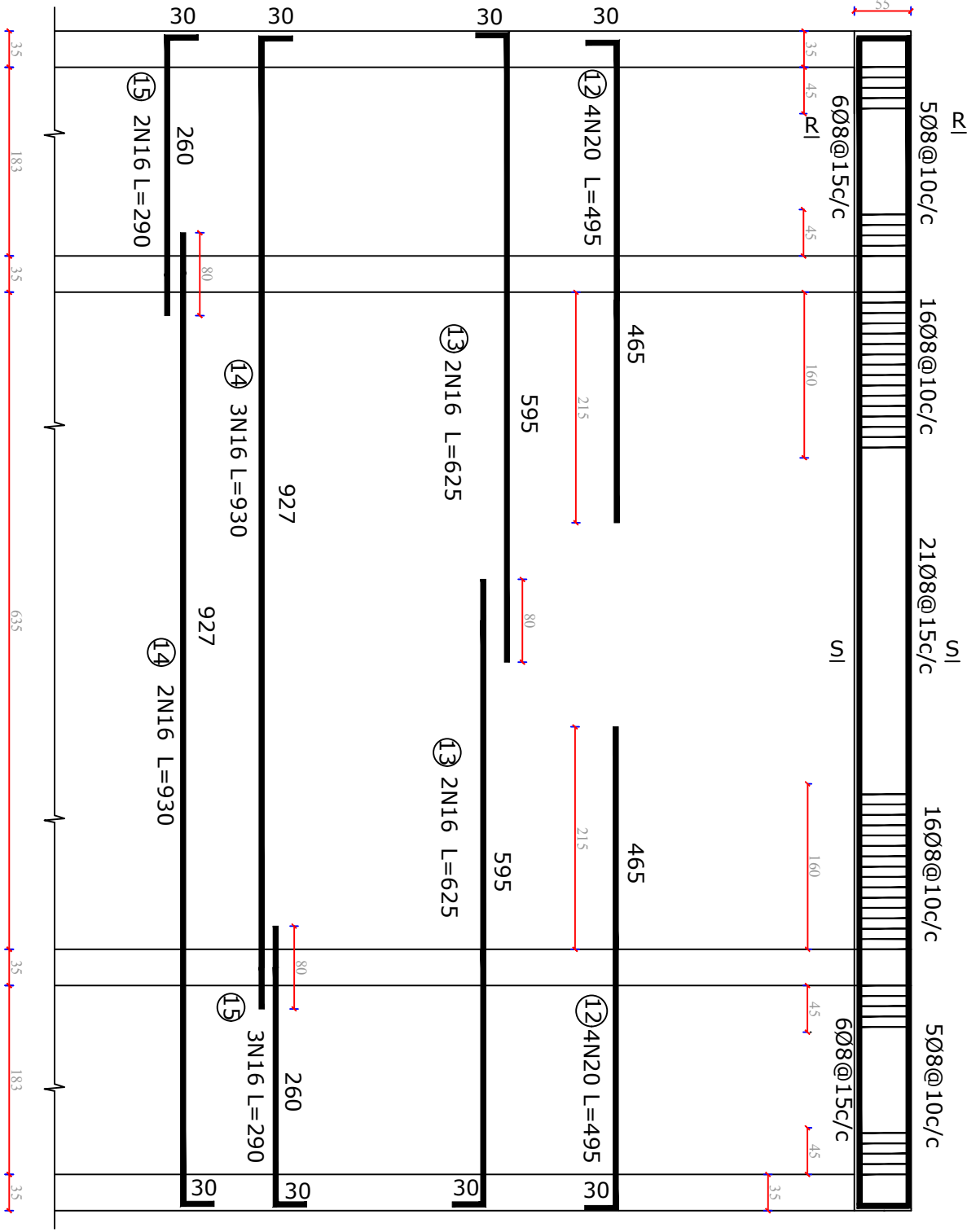
BEAM-7  
N=8 35x35



SECTION F-F

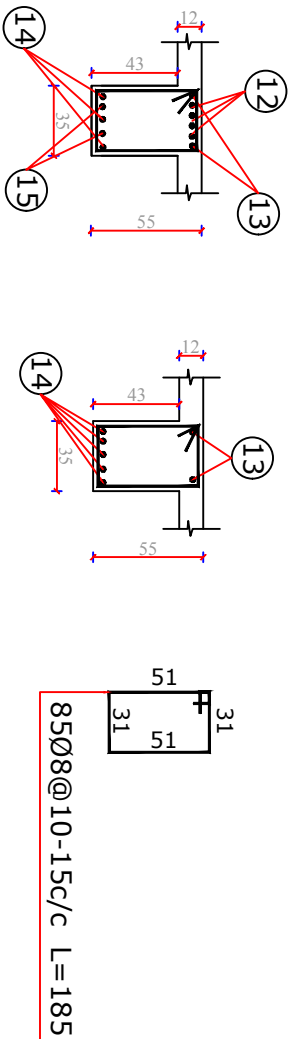


BEAM-5  
N=2 35x55



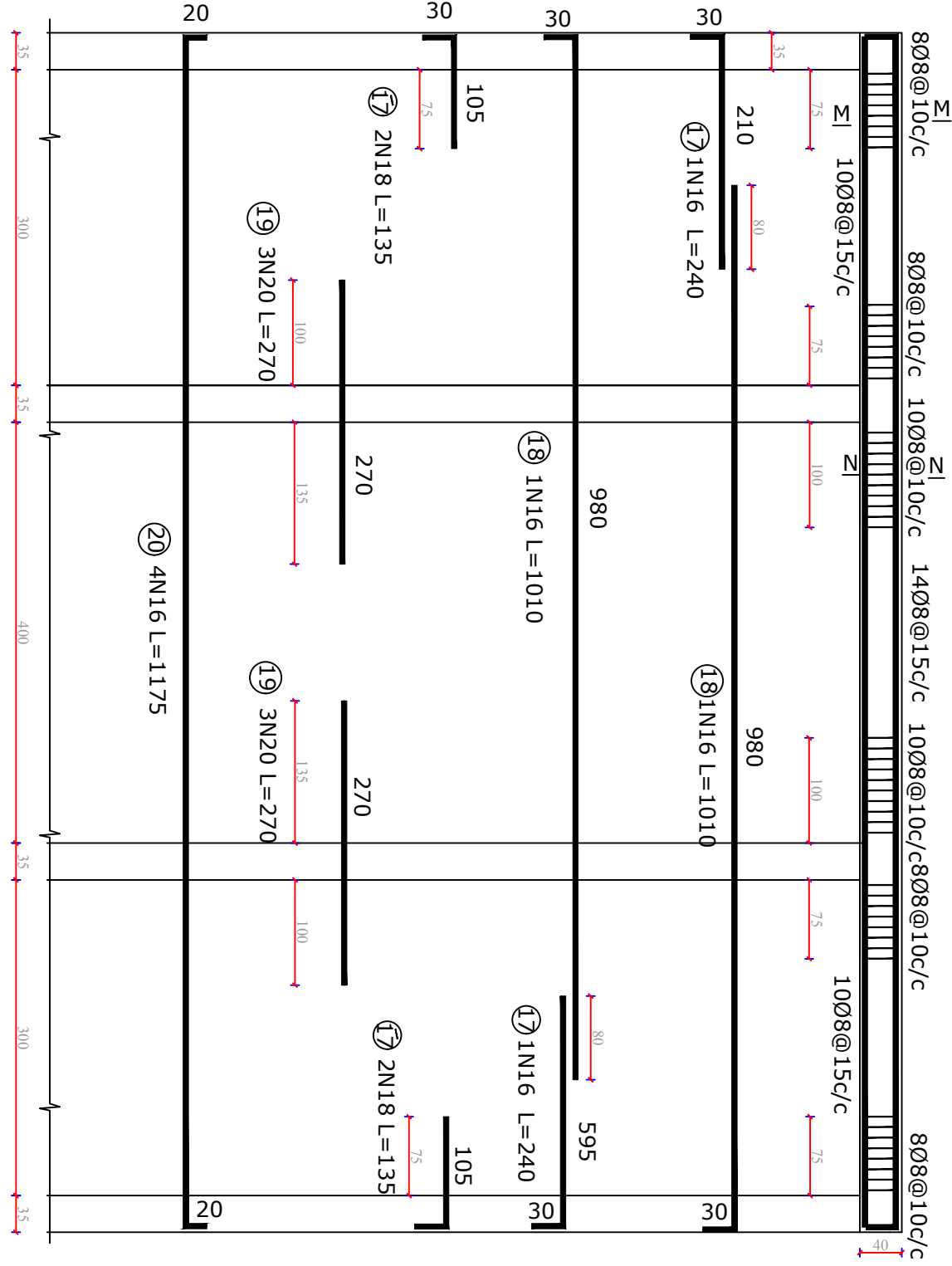
SECTION R-R

SECTION S-S

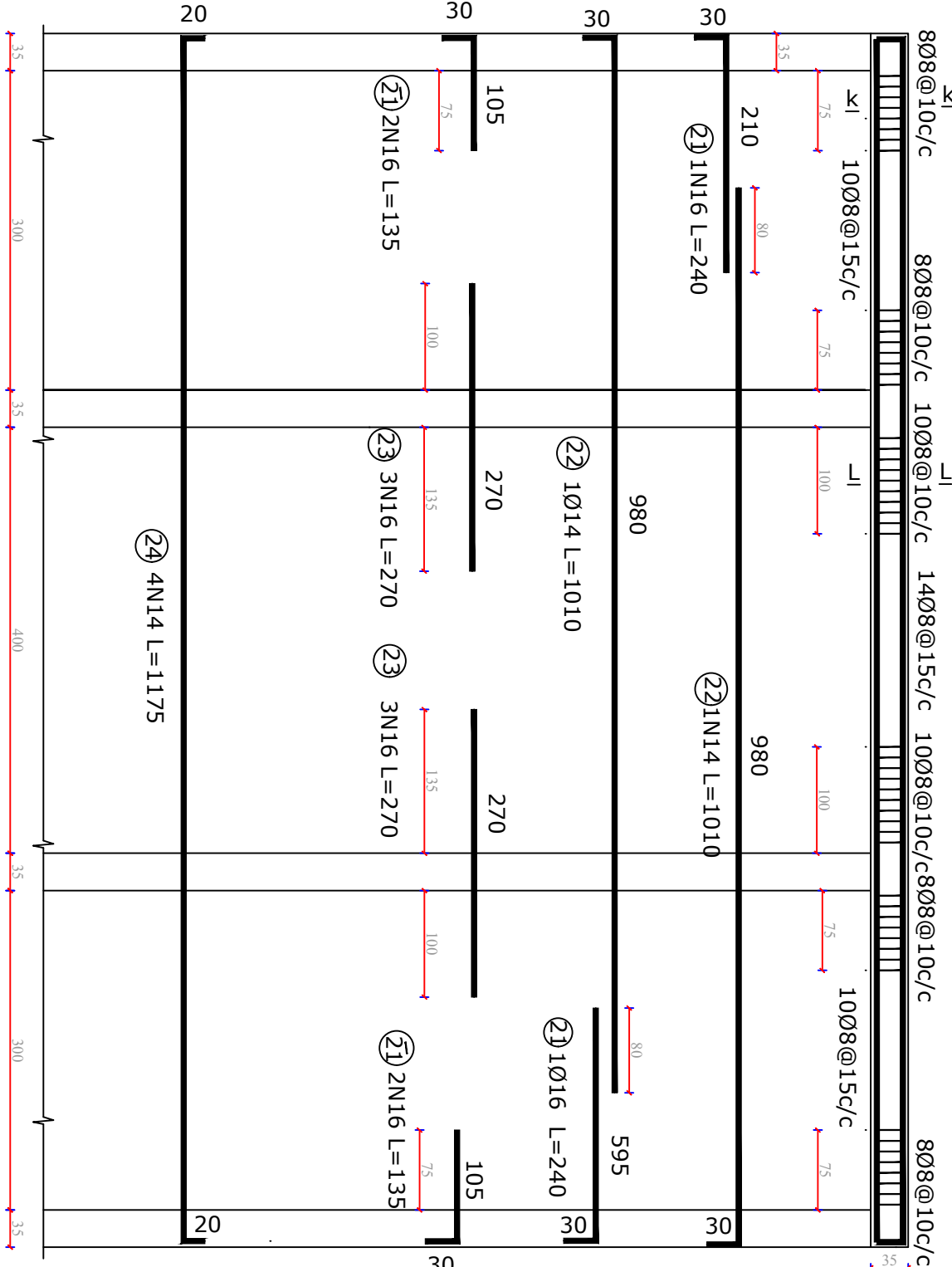


<div>MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION</div>		<div>STANDARD SCHOOL DESIGN IN AFGHANISTAN</div>				<div>PROJECT NAME 16 CLASS ROOM SCHOOL IRON SHEET</div> <div>DRAWING TITLE DETAIL OF BEAM (5,7)</div>		
		ARCHITECT/DESIGN	AH.FERKZ T.AHIRY	APPROVED Doc/MoE	ENG.YONUS YOUSFZAI			<div>44 48</div>
		RCC/DESIGN	ENG.FATIMA	SCALE	AS SHOWN (A3)			
		TECH. APPROVED BY	ENG.AB.MATIN MAQOL	DATE	25.6.2006			

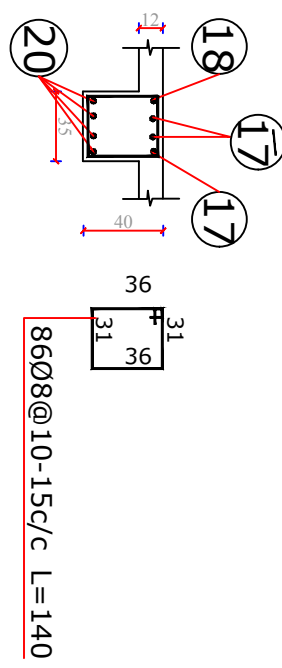
BEAM-2  
N=2 35x40



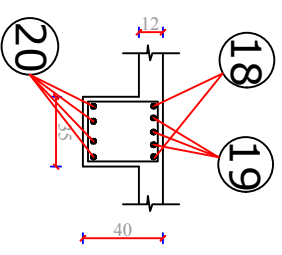
BEAM-4  
N=2 35x35



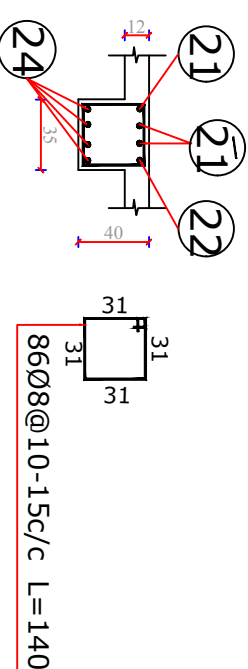
SECTION M-M



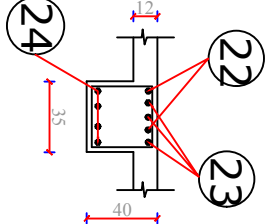
SECTION N-N



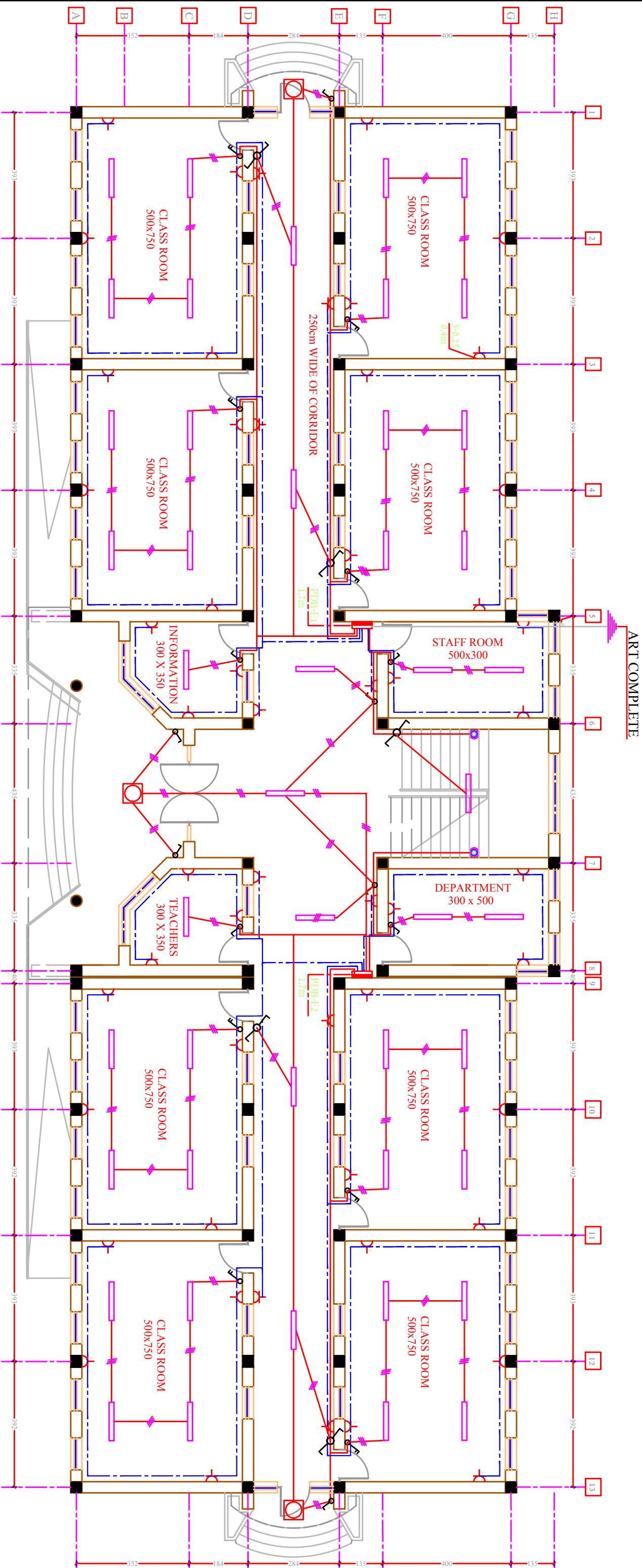
SECTION K-K



SECTION L-L

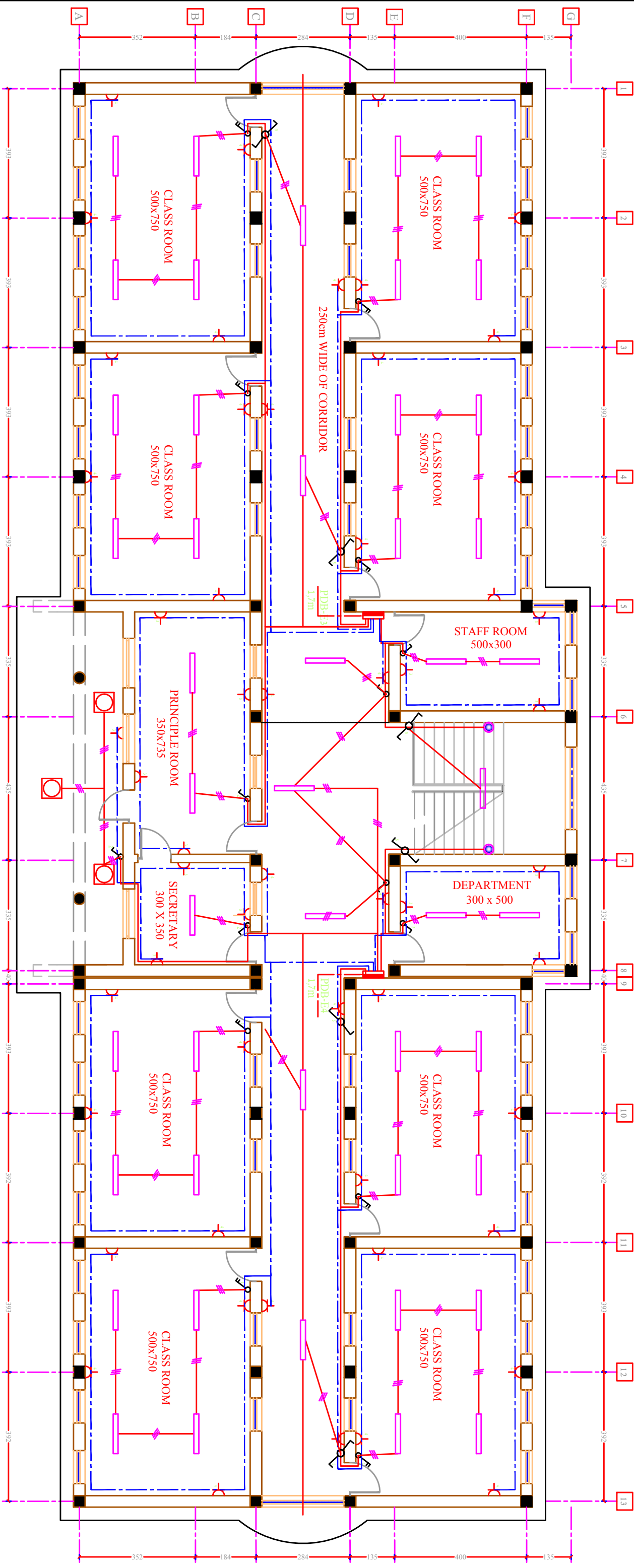






GROUND FLOOR PLAN
























MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RECORDSIGN	AHFEEROZ TAHIRY ENG.FATIMA	APPROVED/Decide SCALE	ENG.YONUS YOUSFZAI AS SHOWN (As)	DRAWING No	PROJECT NAME DRAWING TITLE	
				TECH- APPROVED BY	ENG.AB.MATIN MAQOL	DATE	25.6.2006	SHEET No	16CLASS ROOM SCHOOL IRON SHEET. FIRST FLOOR PLAN OF ELECTRICAL	
								46 48		



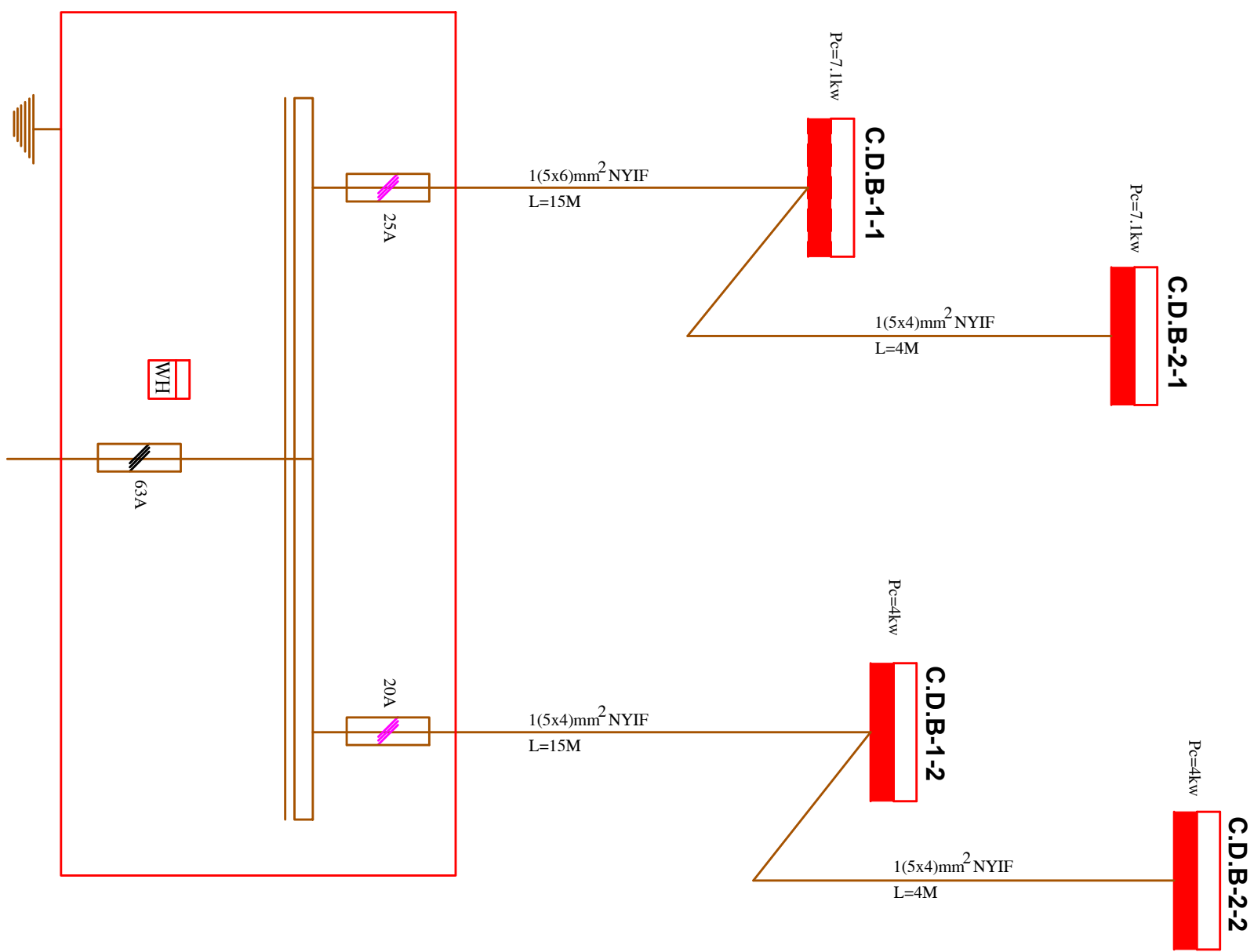
FIRS TFLOOR PLAN

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION		STANDARD SCHOOL DESIGN IN AFGHANISTAN		ARCHITECT/DESIGN RCC/DESIGN	AHFEEROZ TAHIRY ENG.FATIMA	APPROVED/Decide SCALE	ENG.YONUS YOUSFZAI AS SHOWN (A3)	DRAWING No	PROJECT NAME	
				TECH-APPROVED BY	ENG.AB.MATIN MAQOOL	DATE	25.6.2006	SHEET No	DRAWING TTITLE	
								47 48	16CLASS ROOM SCHOOL IRON SHEET. GROUND FLOOR PLAN OF ELECTRICALE	

## SPECIFICATION OF ELECTRICAL EQUIPMENT FOR TWO FLOOR

NO.	DESCRIPTION	SIGNS	UNIT	PIECES	REMARKS
1	FLUORESCENT TUBE 4x20w		NO	109	
2	CEILING FLUORESCENT 1(4x20)w		NO	36	
3	LIGHT ON LENDING STAIRS 1x60w		NO	4	
4	SINGLE POLE SWITCH UNDER PLASTER		NO	14	
5	TWO WAY SWITCHES		NO	10	
6	DOUBLE/TWO POLE SWITCHES UNDER PLASTER		NO	16	
7	SOCKET OUTLET - SINGLE PHASE		NO	105	
8	AUTO CIRCUIT BOARD 10A		NO	21	
9	AUTO CIRCUIT BREAKER 16A		NO	6	
10	AUTO CIRCUIT BREAKER 3PIN 20A		NO	2	
11	AUTO CIRCUIT BREAKER 3PIN 25A		NO	1	
12	WIRE 1(2x1.5)mm TYPE NYIF		M	440	
13	WIRE 1(3x1.5)mm² TYPE NYIF		M	270	
14	WIRE 1(3x2.5)mm² TYPE NYIF		M	480	
15	COVER FOR SWITCH & SOCKET		NO	145	
16	WIRE 1(4x2.5)mm² TYPE NYIF		M	38	
17	CABLE 1(5x4)mm² TYPE NYM		M	18	
18	CABLE 1(5x6)mm² TYPE NYM		M	13	
19	PANEL BOARD COMPLETE		M	4	
20	3 PIN FILTER UNDER FUSE 25A		M	1	
21	3 PIN FILTER UNDER FUSE 20A		NO	1	
22	THREE PHASE METER		NO	1	
23	ART COMPLETE		NO	1	

## ELECTRICAL DIAGRAM

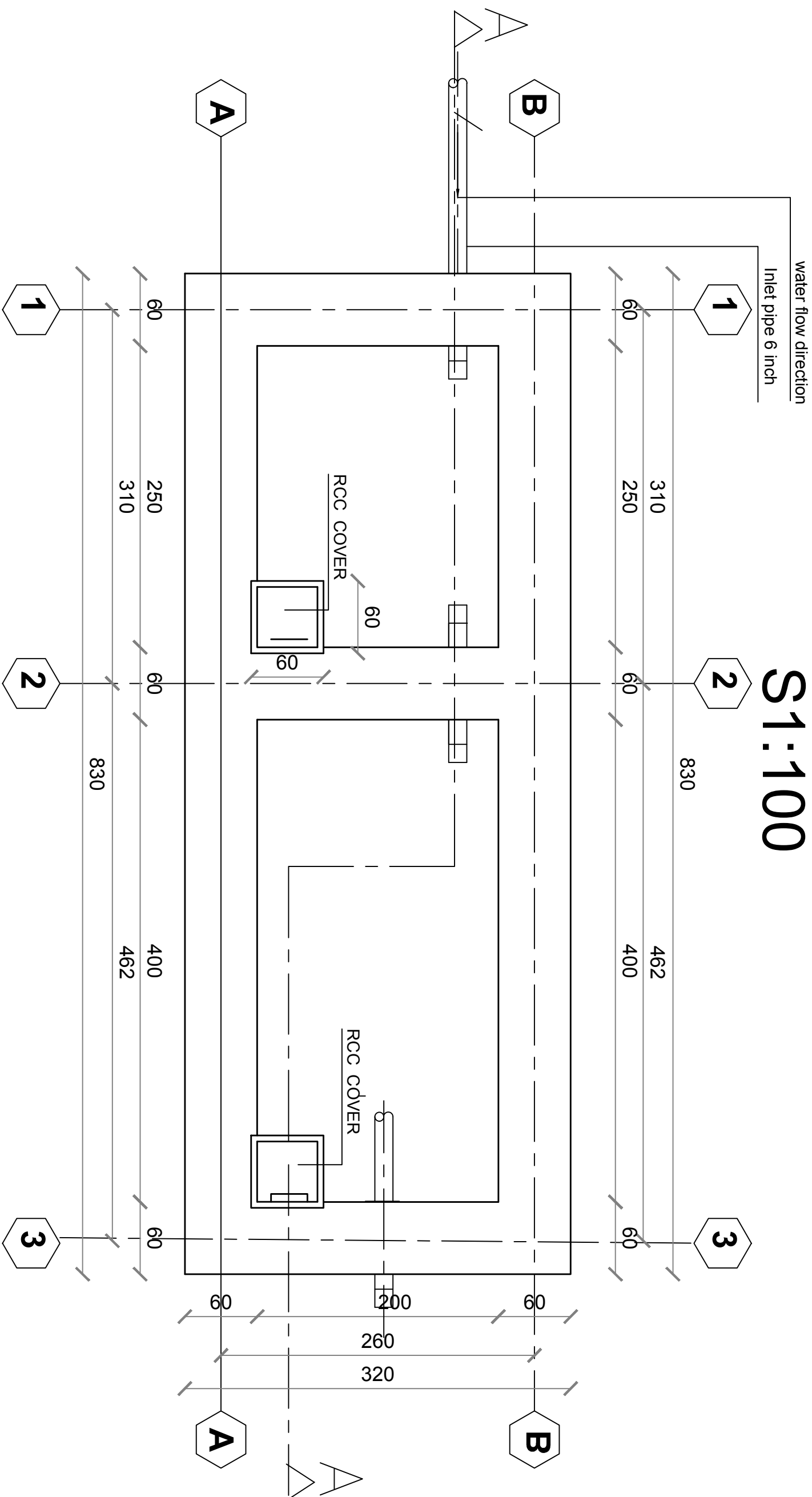



## DIAGRAM OF ELECTRICAL

MINISTRY OF EDUCATION DEPARTMENT OF CONSTRUCTION				STANDARD SCHOOL DESIGN IN AFGHANISTAN				PROJECT NAME		16CLASS ROOM SCHOOL IRON SHEET.	
ARCHITECT/DESIGN		AH.FEROZ TAHIRY		APPROVED/Doc/Msc		ENG.YONUS YOUSFZAI		DRAWING No			
RCC/DESIGN		ENG.FATIMA		SCALE		AS SHOWN (A5)		SHEET No		DRAWING TITLE	
TECH-APPROVED BY		ENG.AB.MATTIN MAQOL		DATE		25.6.2006					
								48			
								48			

# PLAN OF SEPTIC TANK

# S1:100

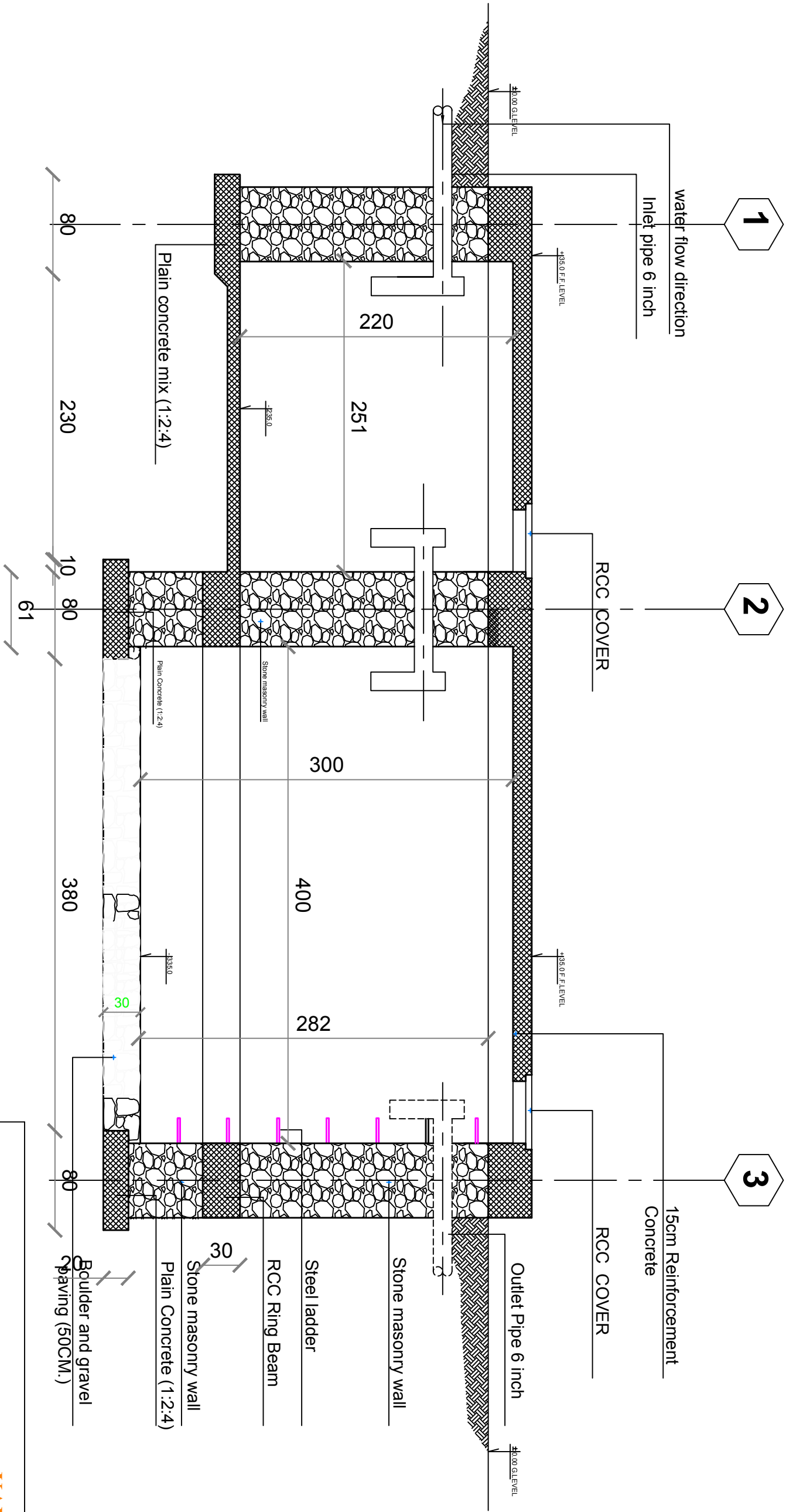



 <b>UNHCR</b> The UN Refugee Agency		<b>Afghanistan</b>		<b>KANDAHAR</b> <b>SCHOOL PROJECT</b>	
Project Code	KAN-000-000				
Project Title	New Construction of Septic Tank For School				
Drawing Title	Plan				
Project Location	District of city PD#5				
Drawn By:	Designed By:	Checked By:	Review By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100



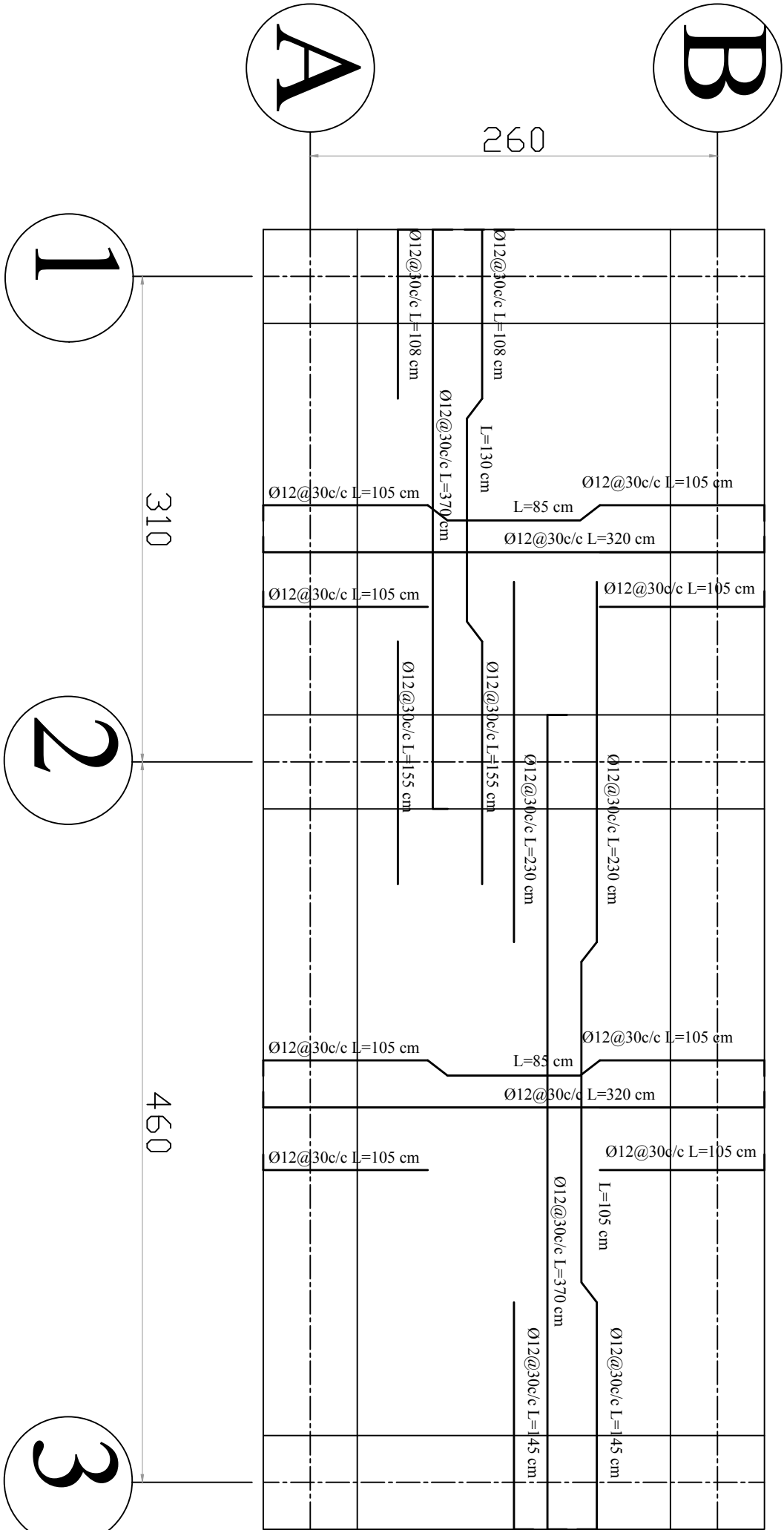
# SEPTIC TANK SECTION A-A

## S1:100



<div><div> <b>UNHCR</b> The UN Refugee Agency</div><div>Afghanistan</div></div> <div><div>KANDAHAR</div><div>SCHOOL PROJECT</div></div>				
Project Code	KAN-000-000			
Project Title	New Construction of Septic Tank for School			
Drawing Title	Plan			
Project Location	District of city PD#5			
Drawn By:	Designed By:	Checked By:	Review By:	Approved By:
Name Eng.Amir M.	Eng.Amir M.			
Sign				
				Sheet No: 00 of 00
				Scales:

Bar Bending Schedule Of Septic Tank Slab



 **UNHCR** | Afghanistan

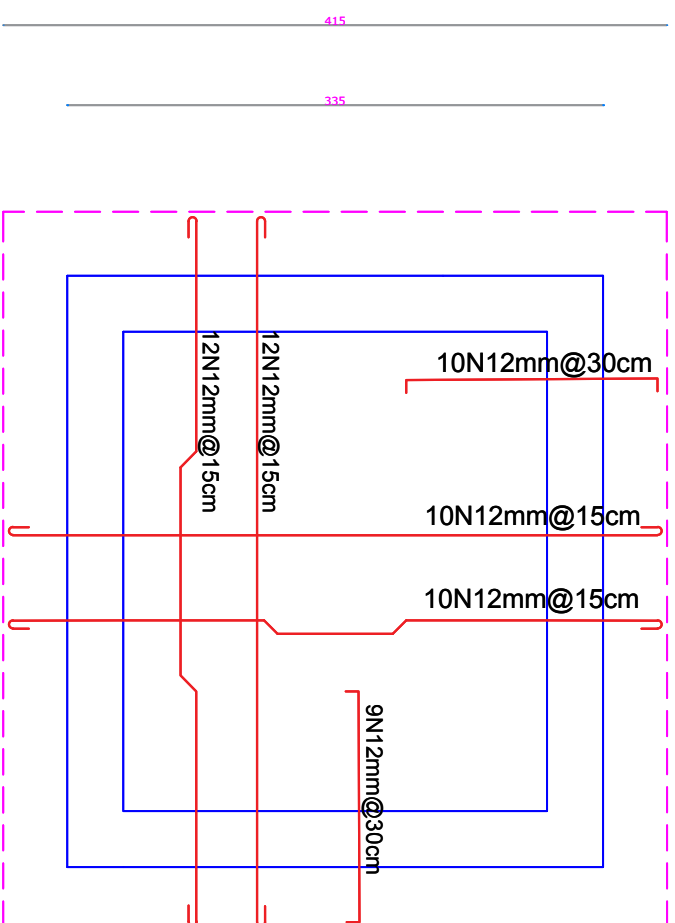
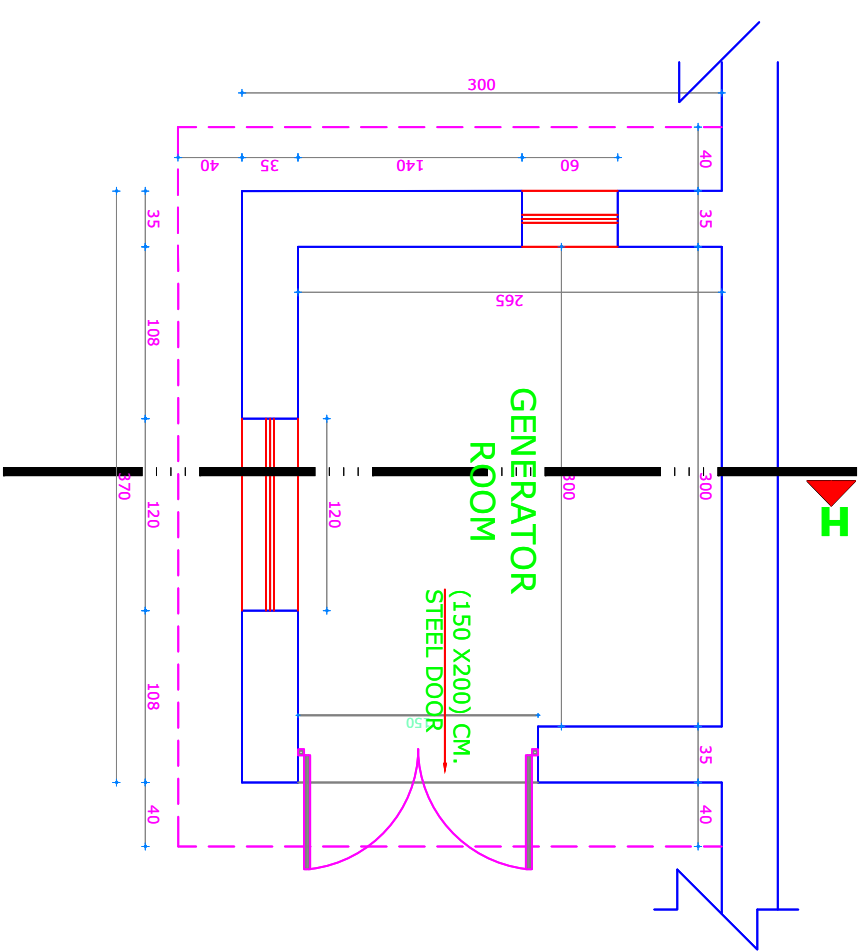
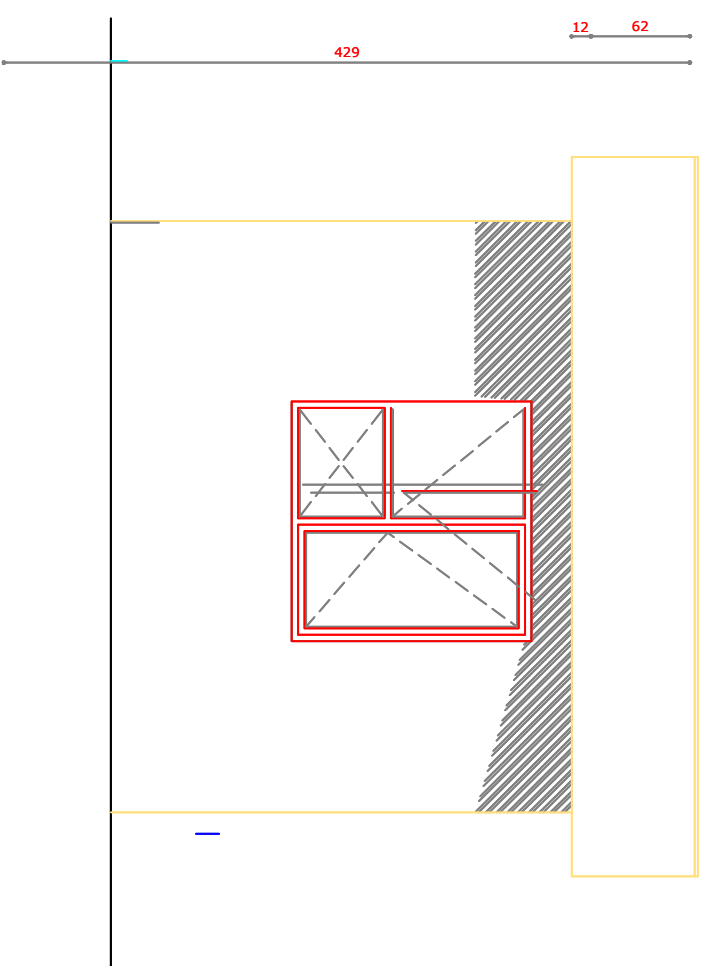
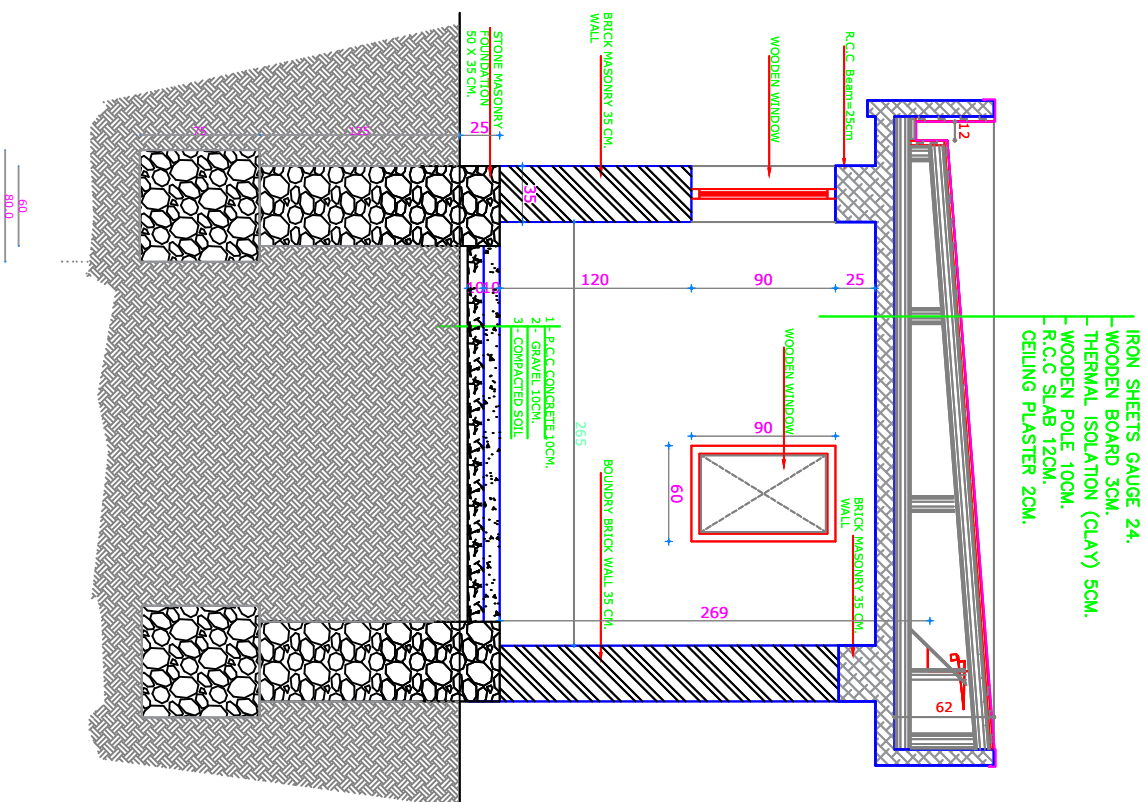
**KANDAHAR**  
**SCHOOL PROJECT**

Project Code	KAN-000-000				
Project Title	New Construction of Septic Tank For SCHOOL				
Drawing Title	Plan				
Project Location	District of city PD#5				

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


# Plan & section of Generator Room for School

## SI:100



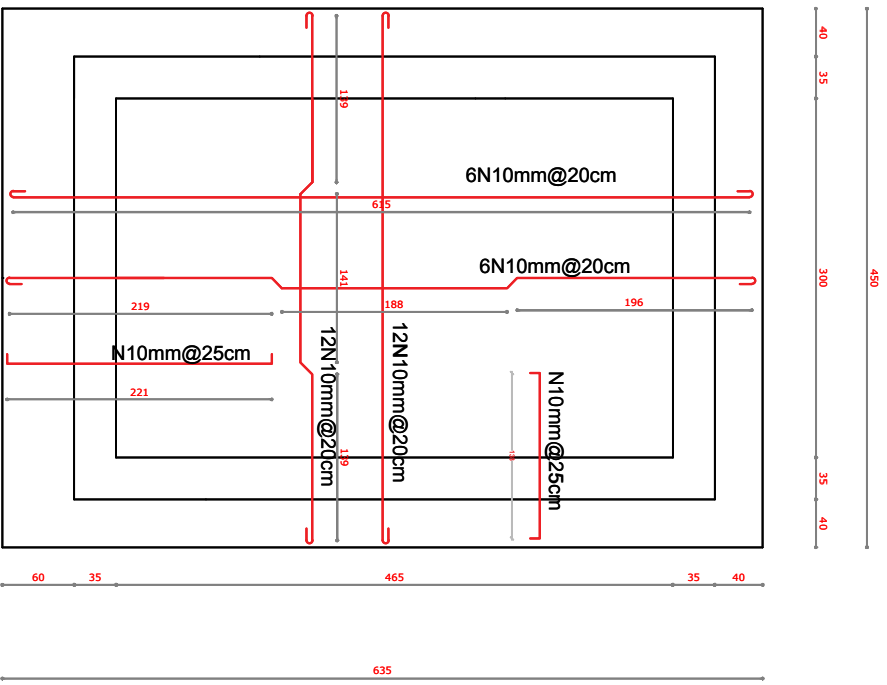
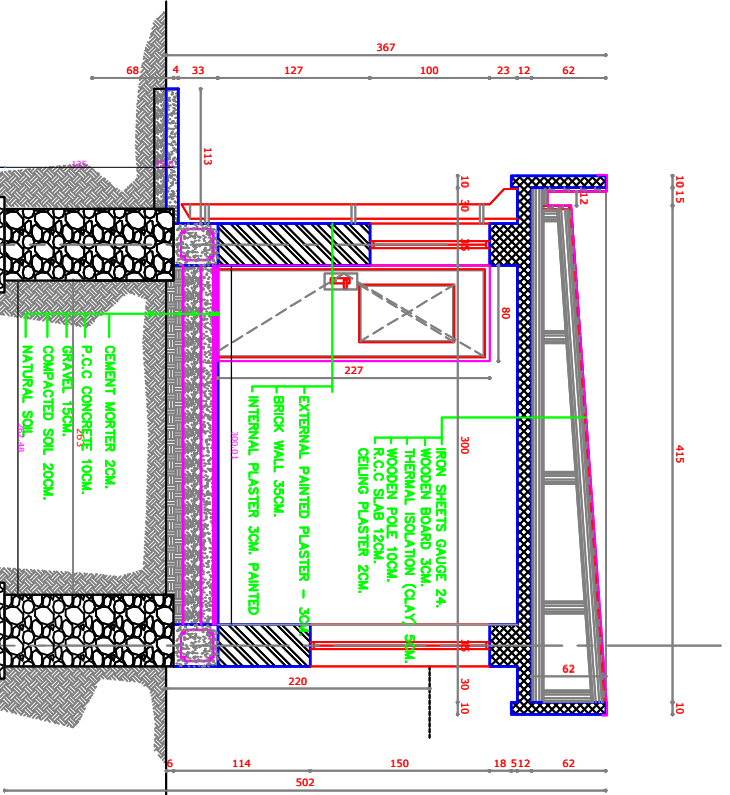
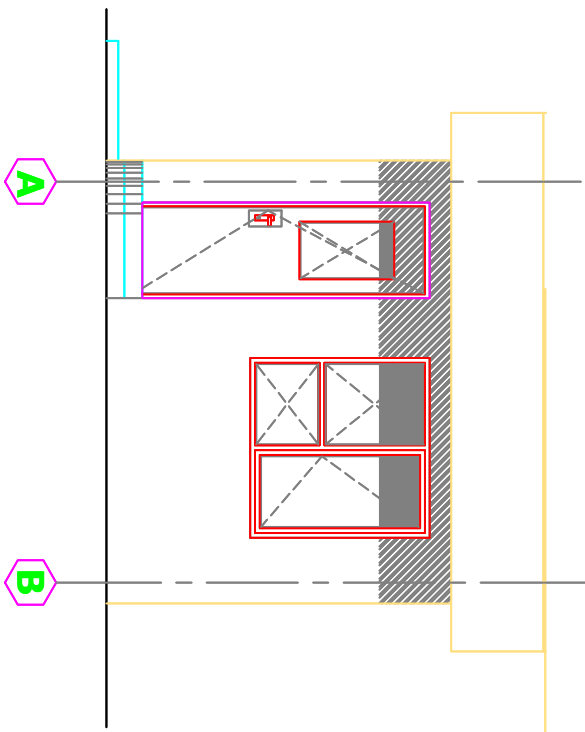
Note:

- 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.

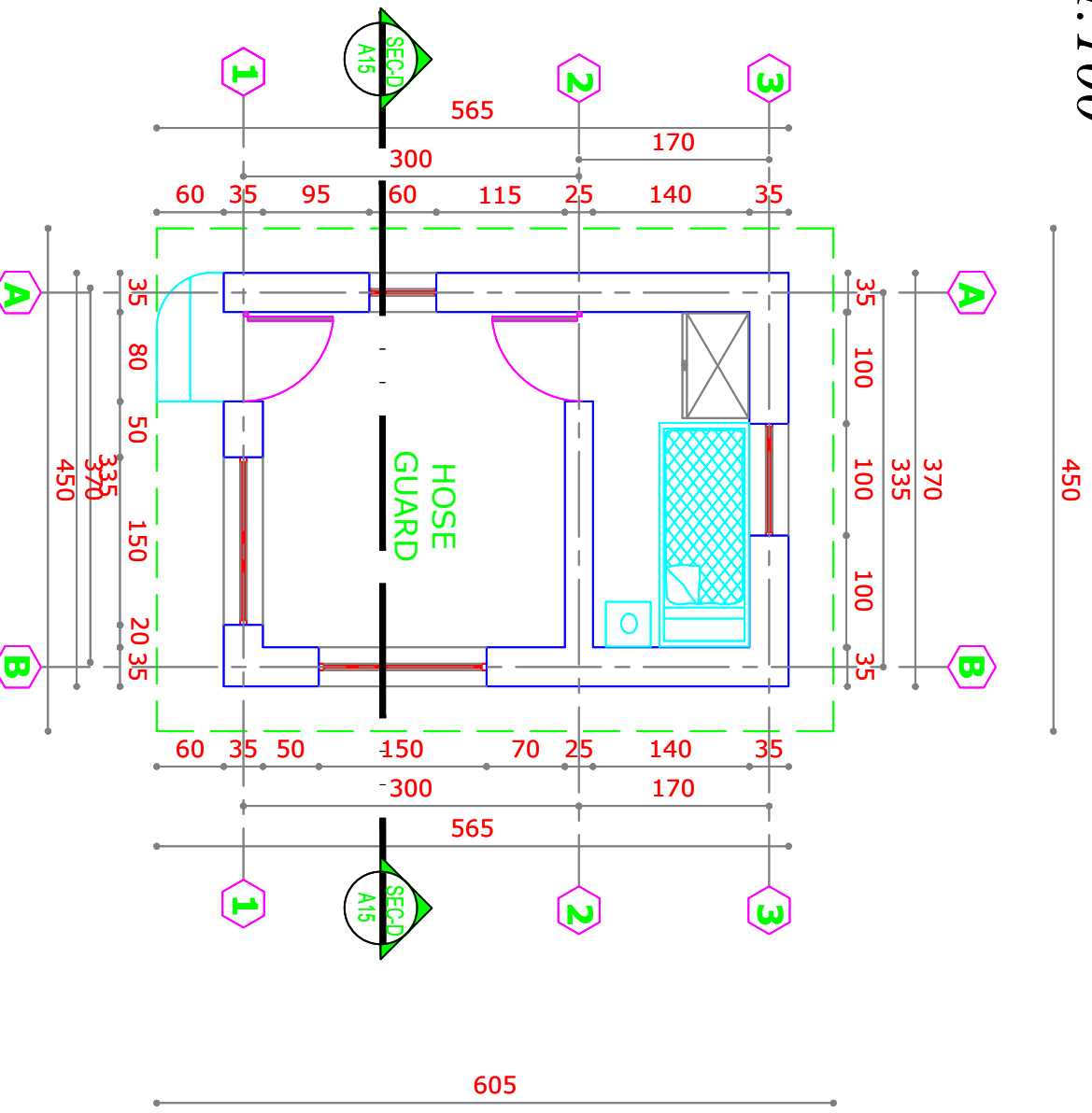
<div><b>UNHCR</b>   The UN Refugee Agency</div> <div><b>Afghanistan</b></div> <div><b>KANDAHAR</b></div> <div><b>SCHOOL PROJECT</b></div>					
Project Code	KND - 000 - 000				
Project Title	New Construction of Generator Room				
Drawing Title	Plan ,Section Front Preview				
Project Location	Kandahar 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 Guard Room for School

SI:100

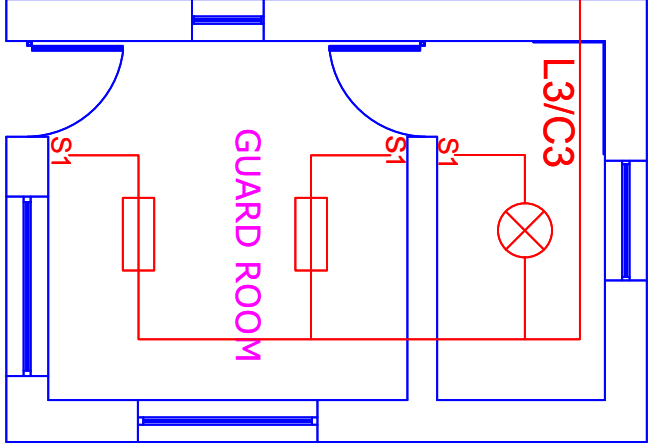


HOSE GURD



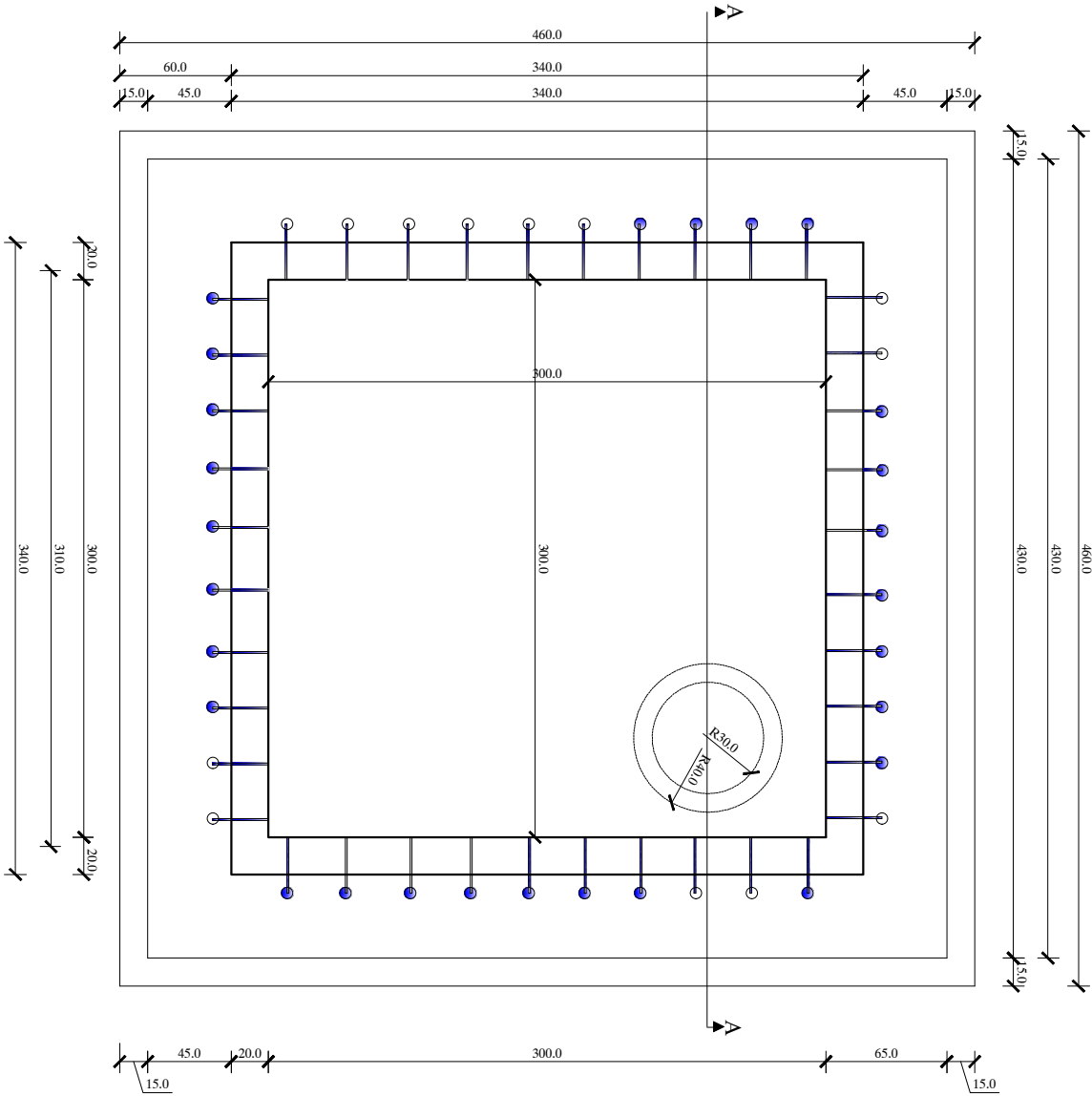
**Note:**

- 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(4I)  $R_a = 2100 \text{ Kg/cm}^2$ .
- 8-The curing must be not less than (28) days.



<div><b>UNHCR</b> The UN Refugee Agency</div> <div>Afghanistan</div> <div>KANDAHAR SCHOOL PROJECT</div>				
Project Code	KND - 000 - 000			
Project Title	New Construction of Guard Room			
Drawing Title	Plan ,Section Front Preview			
Project Location	Zabul 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

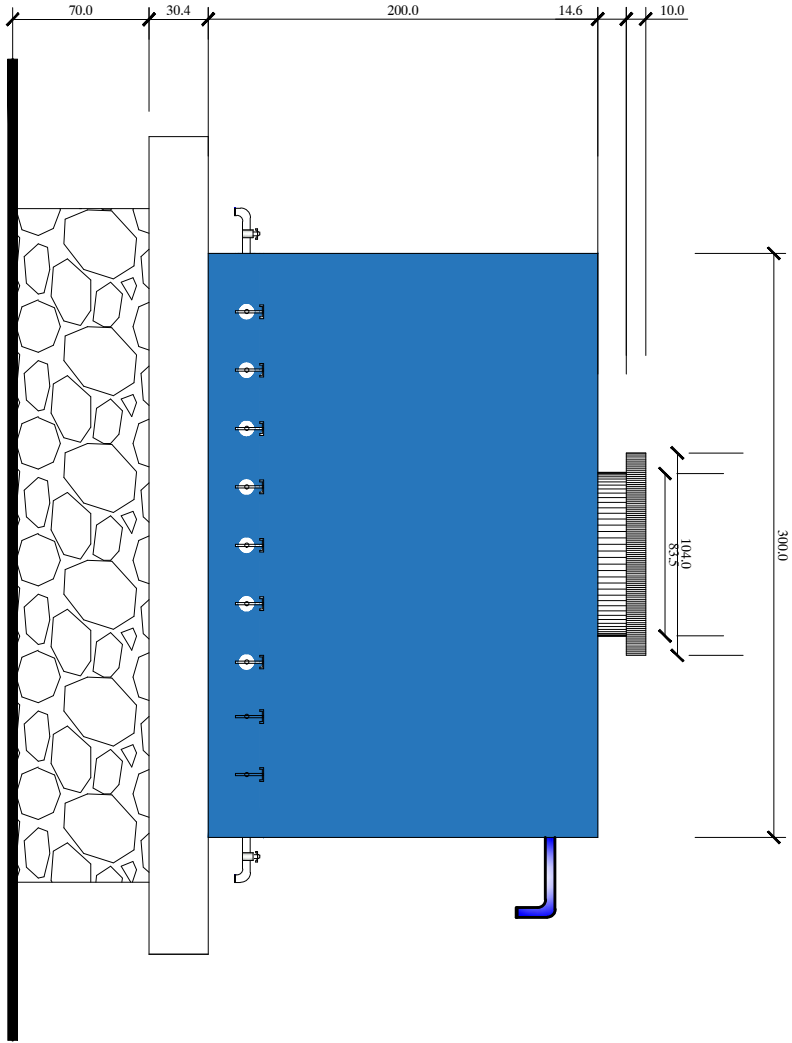
Plan of Water Reservoir  
S 1:100



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 be150.
- 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 secday 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 are1:4

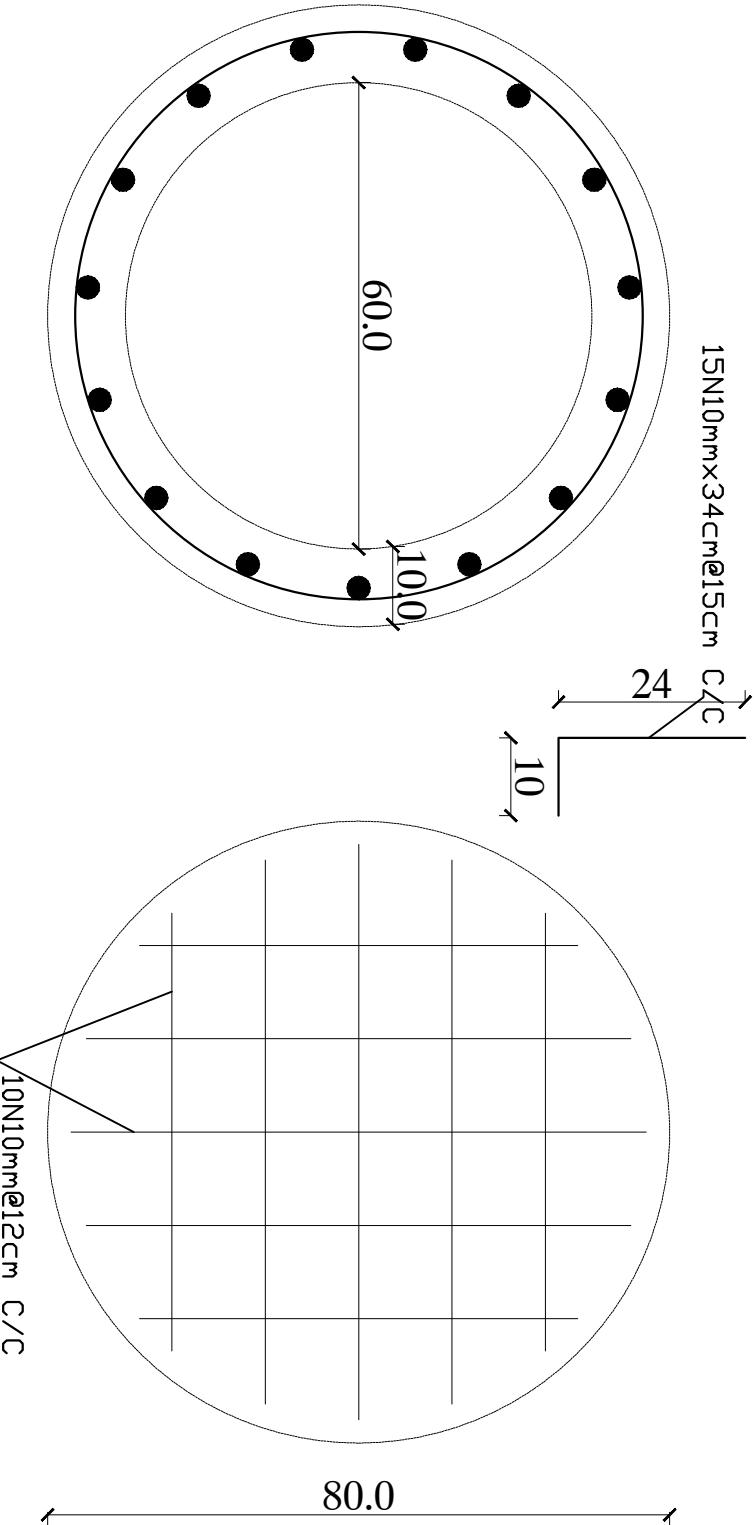
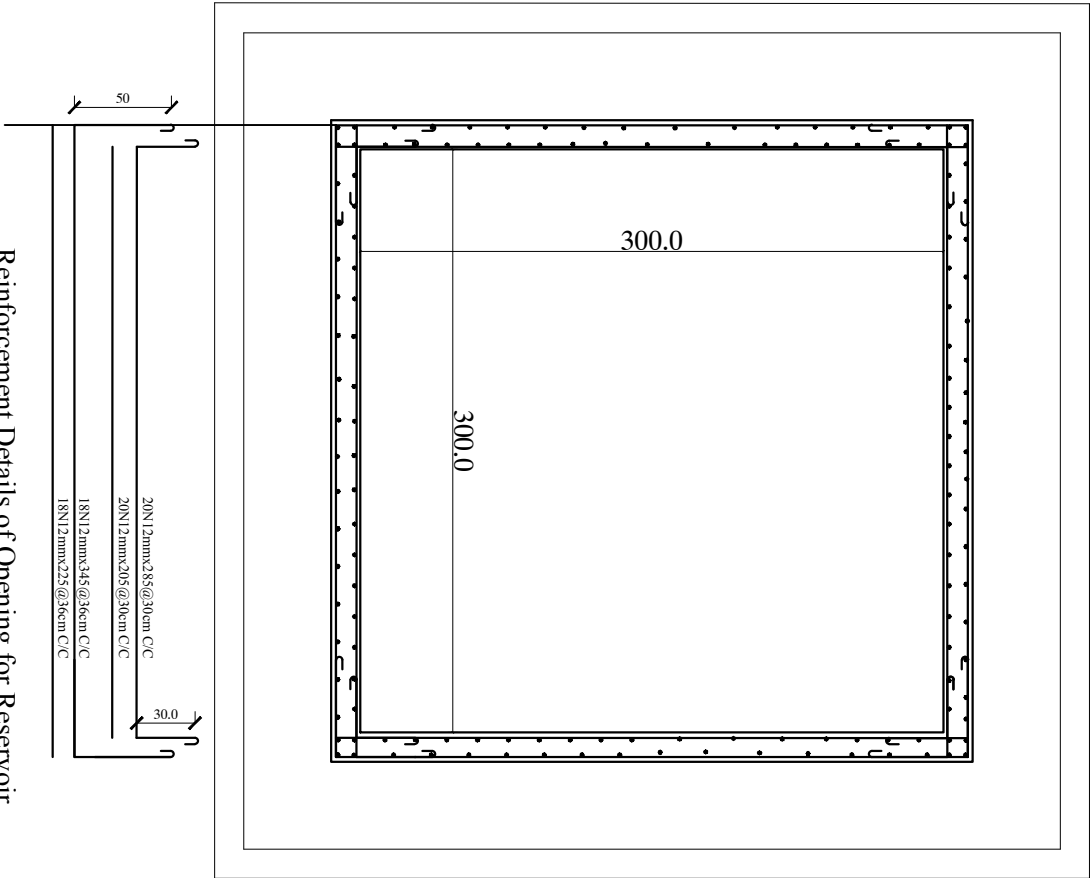
Elevation of Reservoir  
S 1:100



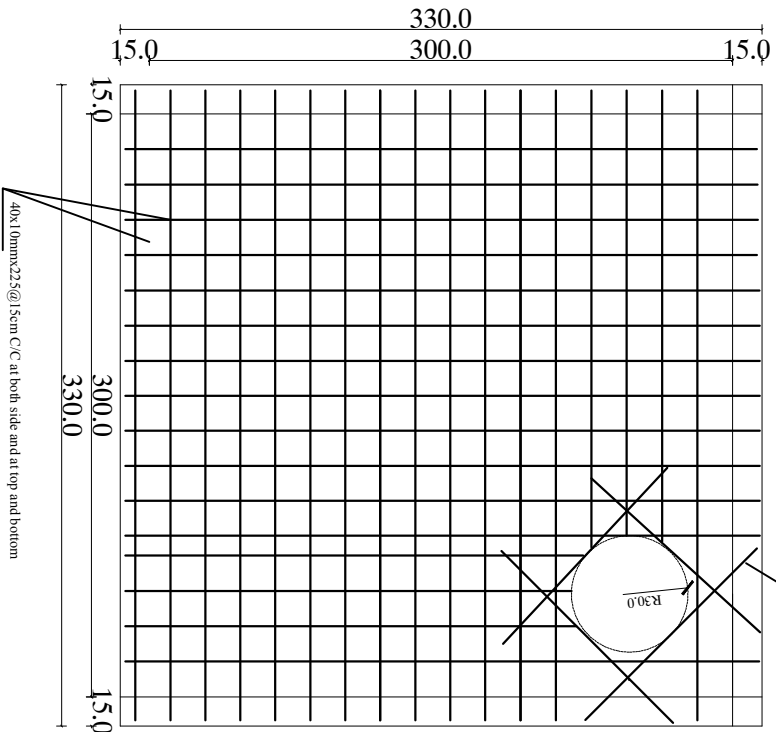
<div><div> <b>UNHCR</b>   Afghanistan</div><div><b>KANDAHAR SCHOOL PROJECT</b></div></div>					
Project Code		KAN-000-000			
Project Title		New Construction of Hand Washing Station			
Drawing Title		Plan & front preview			
Project Location		Kandahar PD#5			
Drawn By:	Designed By:	Checked By:	Review By:	Approved By:	Sheet No:
Name	Eng. Amir M.	Eng. Amir M.			00 of 00
Sign					Scales:
Date					1:100




Reinforcement plan of Reservoir



Reinforcement plan of slab of Reservoir



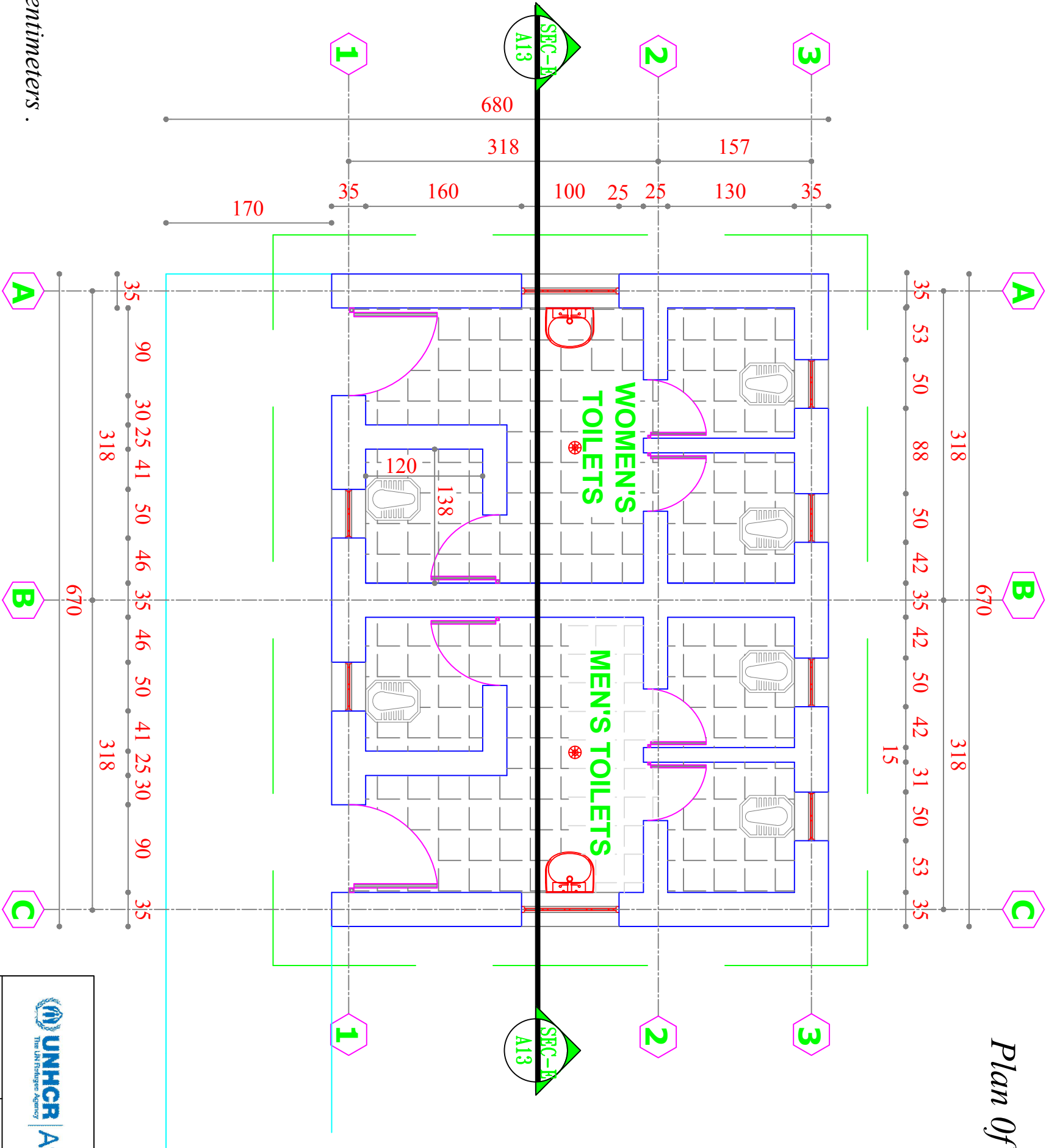
Note: All side Should be Reinforced as shown

 <b>UNHCR</b> <small>THE UN Refugee Agency</small>						<b>KANDAHAR</b>											
<b>Afghanistan</b>						<b>SCHOOL PROJECT</b>											
Project Code			KAN-000-000														
Project Title			New Construction of Hand Washing Station														
Drawing Title			Plan & front preview														
Project Location			Kandahar PD#5														
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 Construction Toilets

SCALE 1:100



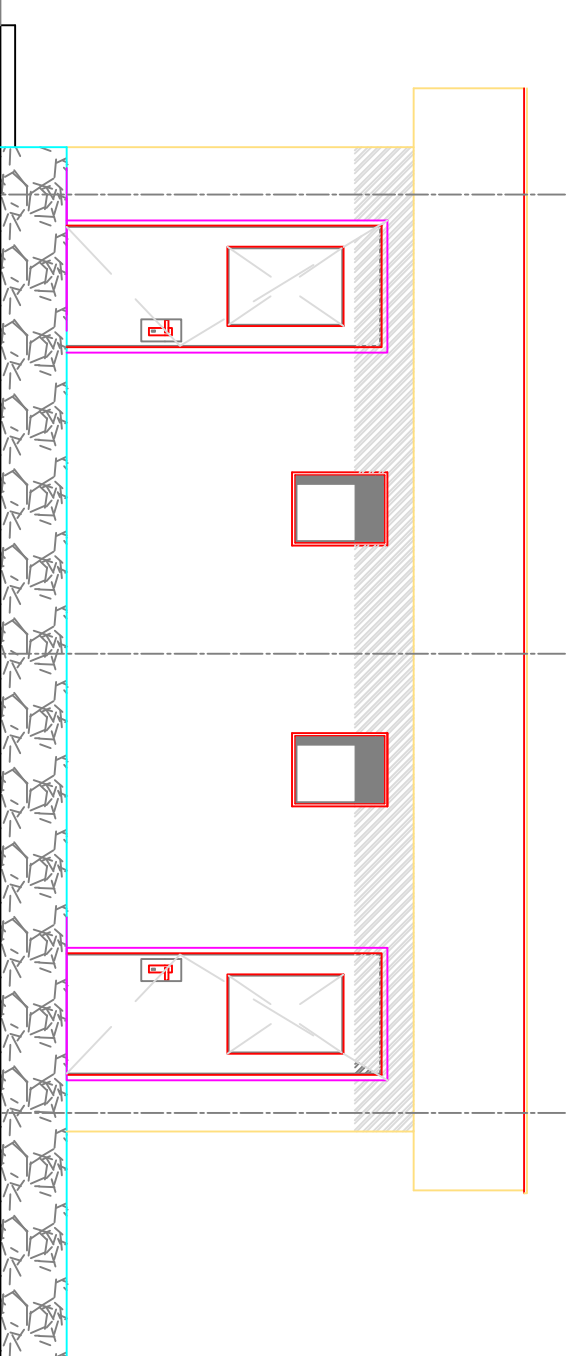
**Note:**

- 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)  $Ra = 2100 \text{ Kg/cm}^2$ .
- 8-The curing must be not less than (28) days.

<div><div><div><div><div></div><div>UNHCR</div></div><div><div>The UN Refugee Agency</div></div></div><div>Afghanistan</div></div><div><div>KANDAHAR</div><div>SCHOOL- PROJECT</div></div></div>				
Project Code	KND- 000 - 000			
Project Title	New Construction of Toilets			
Drawing Title	reinforcement bending floor of building			
Project Location	Kandahar City			
Drawn By:	Designed By:	Checked By:	Review By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.		
Sign				
Date				
				Sheet No:
				00 of 00
				Scals:
				1:100

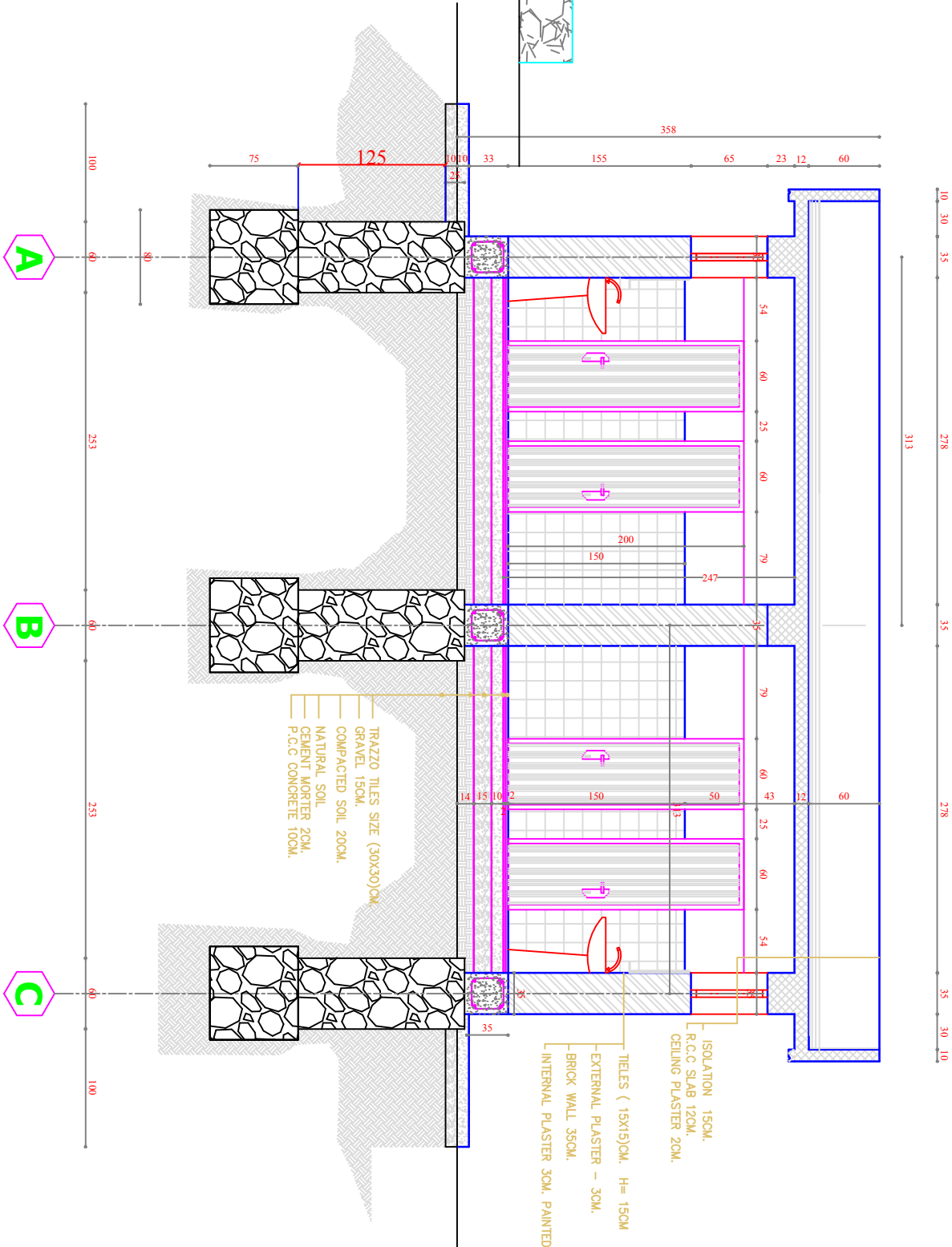
Front Preview Of Construction Toilets

SCALE 1:100



Section A-A

SCALE 1:100



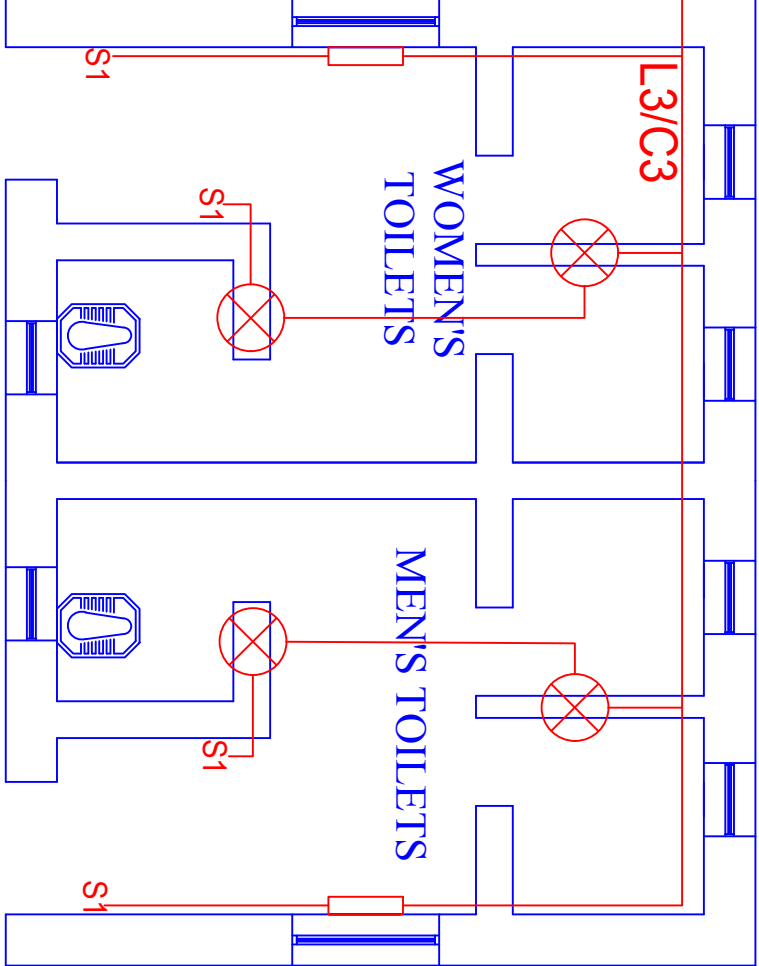
Note:

- 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(4I) Ra= 2100 Kg/cm<sup>2</sup> .
- 8-The curing must be not less than (28) days.

Project Code		ZBL- 000 - 000			
Project Title		New Construction of Toilets			
Drawing Title		front preview & Section of building			
Project Location		Kandahar 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

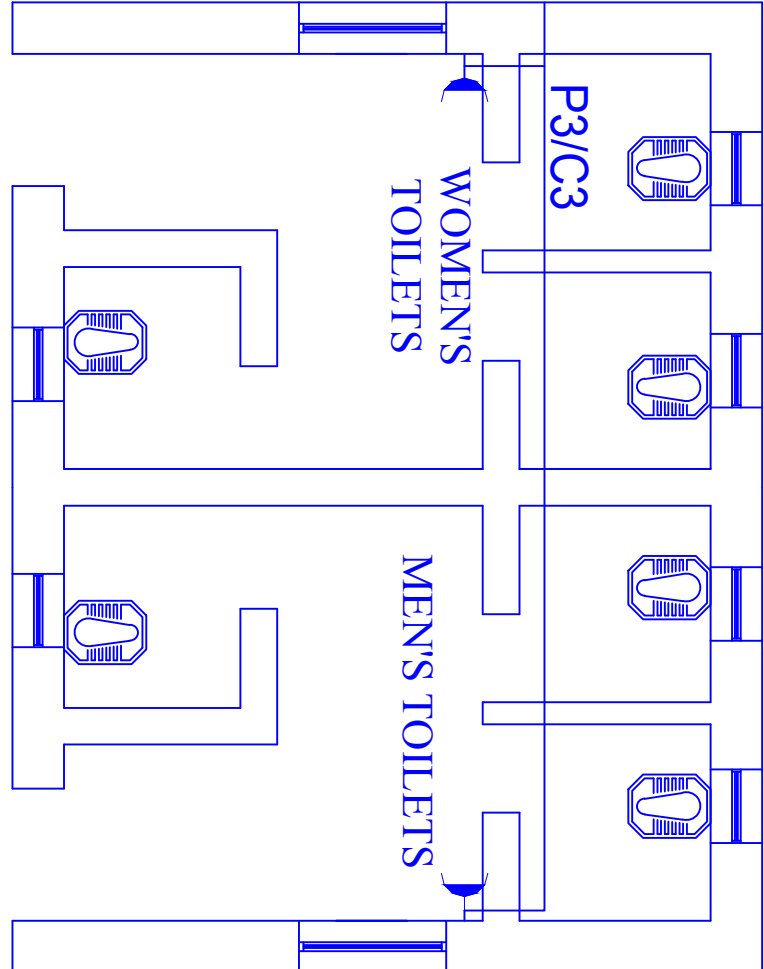
Election Plan Of Construction Toilets

SCALE 1:100



Mecanical Plan Of Construction Toilets

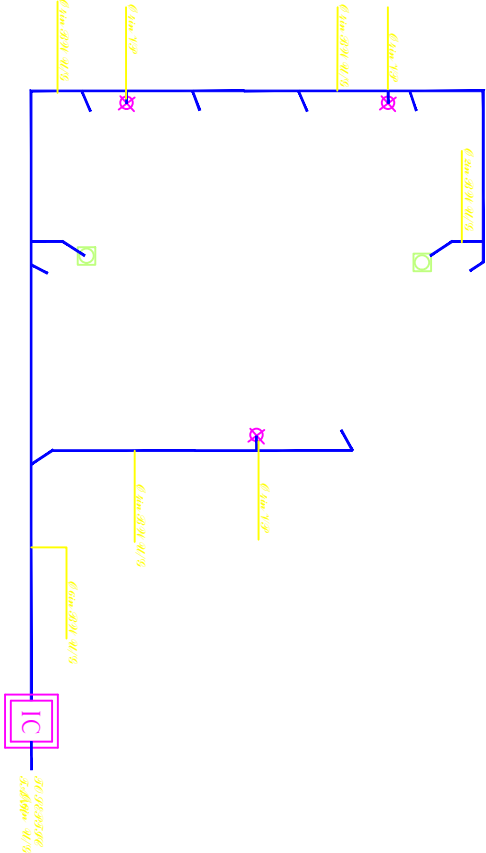
SCALE 1:100



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(4I) Ra= 2100 Kg/cm<sup>2</sup> .
- 8-The curing must be not less than (28) days.

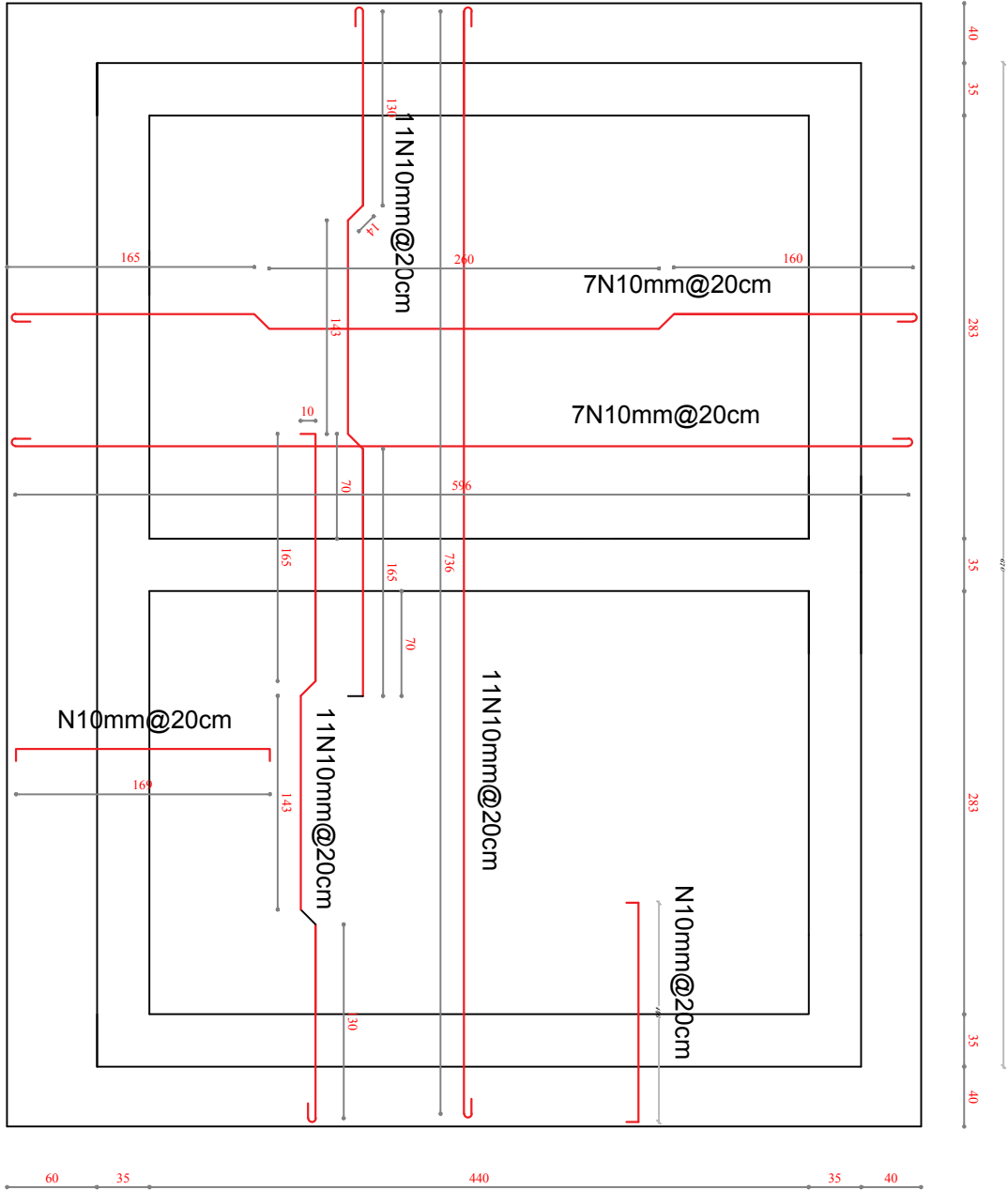
EXTERIOR TOILETS DRAINAGE  
BLANE= 1/40



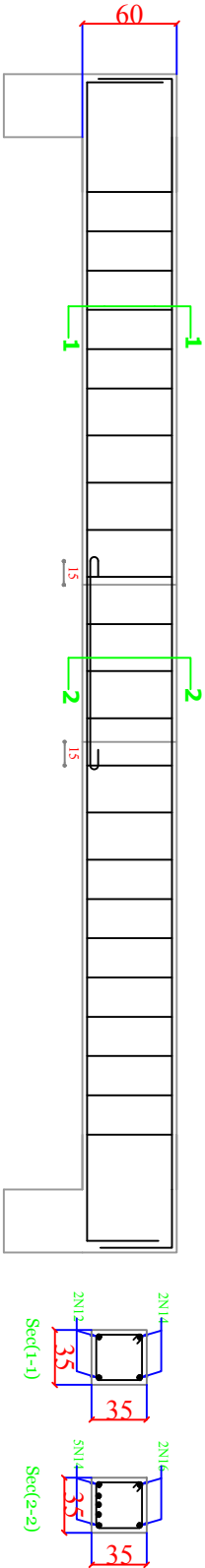
<div><div><div><div><div></div><div>UNHCR</div></div><div><div>afghanistan</div><div>the united nations refugee agency</div></div></div><div><div>KANDAHAR</div><div>SCHOOL- PROJECT</div></div></div></div>					
Project Code	KND- 000 - 000				
Project Title	New Construction of Toilets				
Drawing Title	Felicitation & Mechanical plan				
Project Location	Kandahar 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



STEL BENDING PLAN OF SLAB



TOILAT

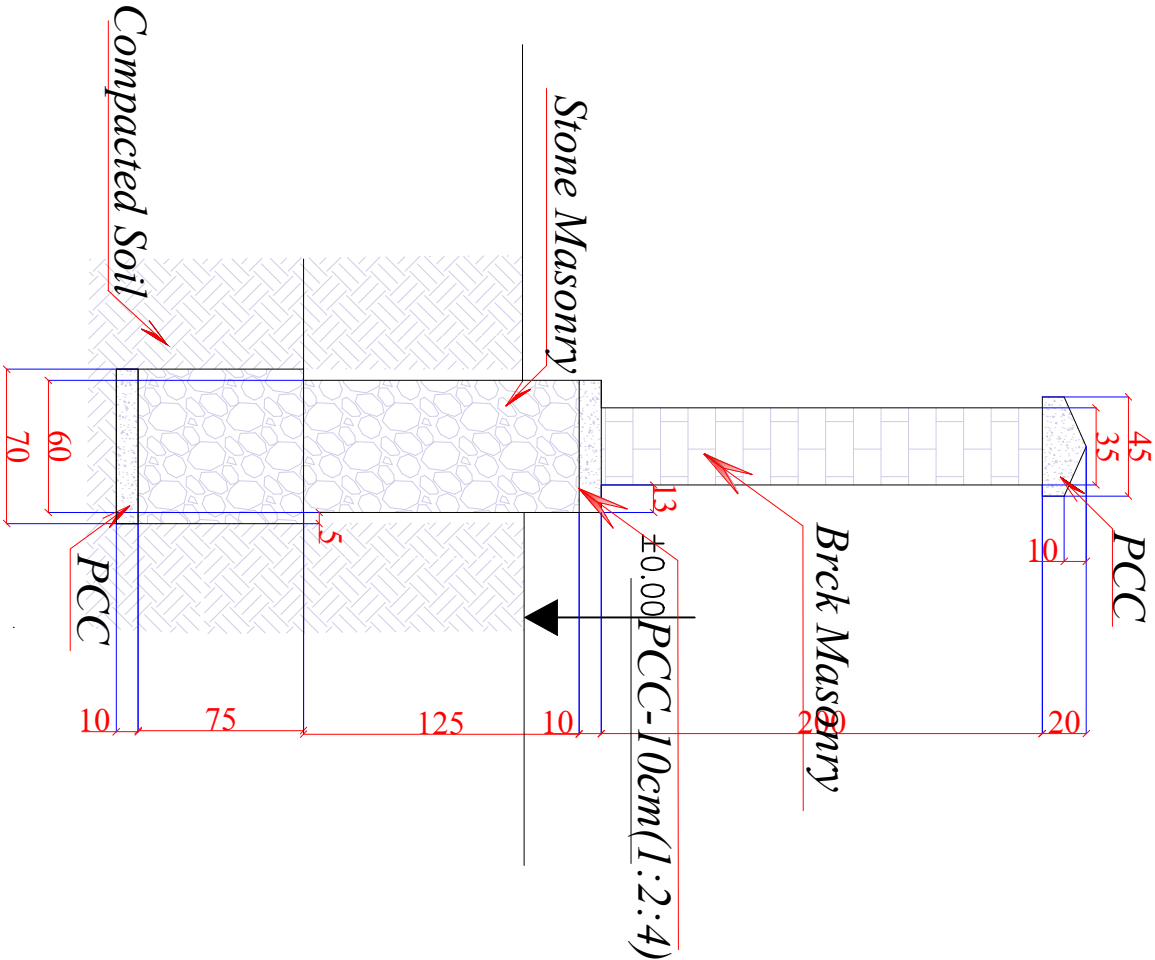


Specification:

- 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.formwork 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.Concert: all reinforcement concerts shall be power machine mixed and machine vibrated. the concert 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 chang according bearing capacity of that earth. structure building)

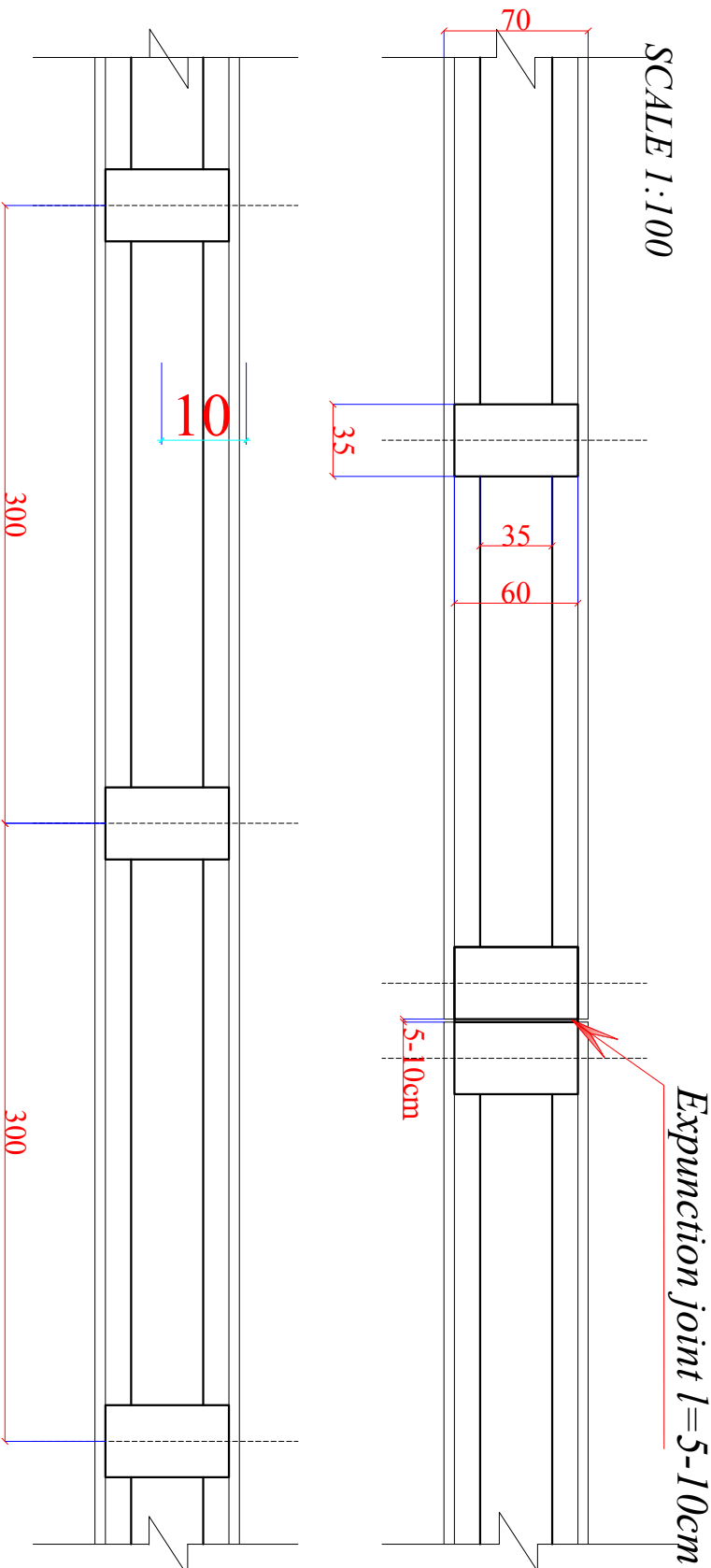
<div><div><div><div><div><div></div><div>UNHCR</div></div><div><div>The UN Refugee Agency</div></div></div><div><div>Atghanistan</div></div></div><div><div>KANDAHAR</div><div>SCHOOL- PROJECT</div></div></div></div>				
Project Code	KND- 000 - 000			
Project Title	New Construction of Toilets			
Drawing Title	Reinforcement bending floor of building			
Project Location	Kandahar City			
Drawn By:	Designed By:	Checked By:	Review By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.		
Sign				
Date				
				Sheet No:
				00 of 00
				Scales:
				1:100

Section A-A



Boundary wall for School building  
Plan Of Burnt Brick boundary wall

SCALE 1:100



Lenght of Brick, stone masonry boundary wall=208m

Note:

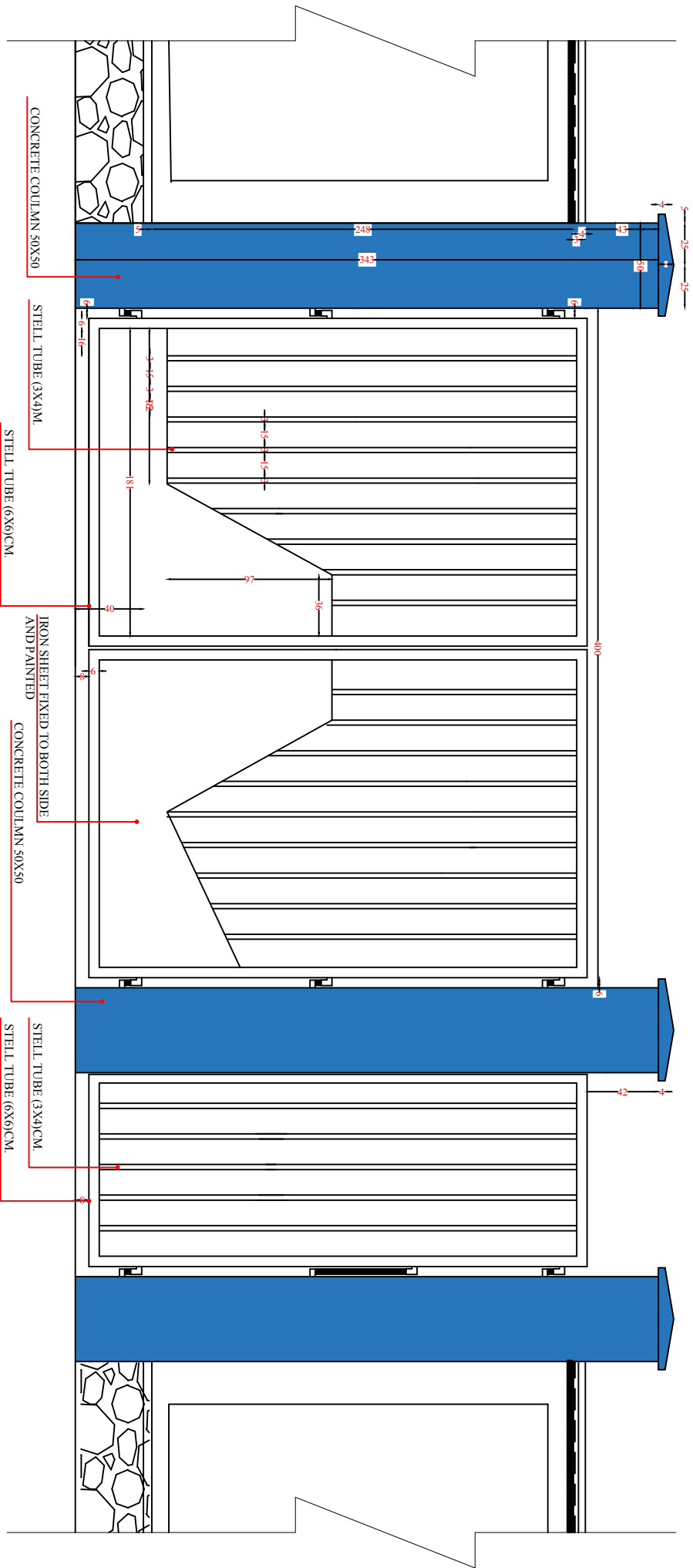
- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1.5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(4I) Ra= 2100 Kg/cm².
- 8-The curing must be not less than (28) days.

<div><b>UNHCR</b> The UN Refugee Agency</div> <div><b>Afghanistan</b></div>					<b>KANDAHAR</b> <b>SCHOOL PROJECT</b>						
Project Code		KAN - 000 - 000									
Project Title		New Construction of Boundary wall									
Drawing Title		Plan & Sections of wall									
Project Location		Kandahar City									
Drawn By:		Designed By:		Checked By:		Revetw By:		Approved By:		Sheet No:	
Name Eng.Amir M.		Eng.Amir M.								00 of 00	
Sign										Scales:	
Date										1:100	

# Boundary wall in School building

## Main & Small Steel gate of Boundary wall

SCALE 1:100



### Note:

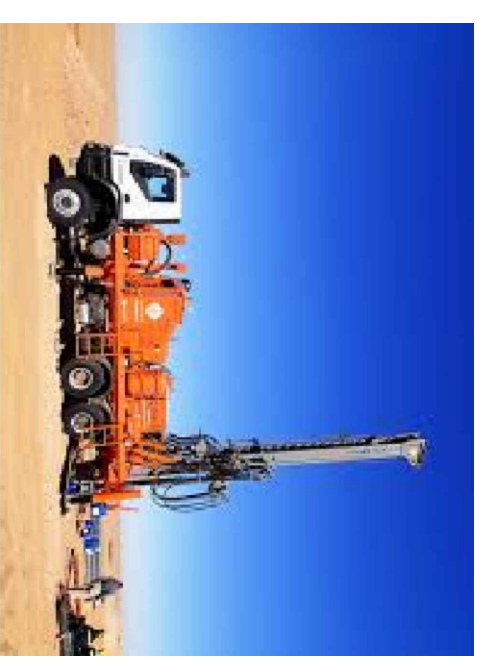
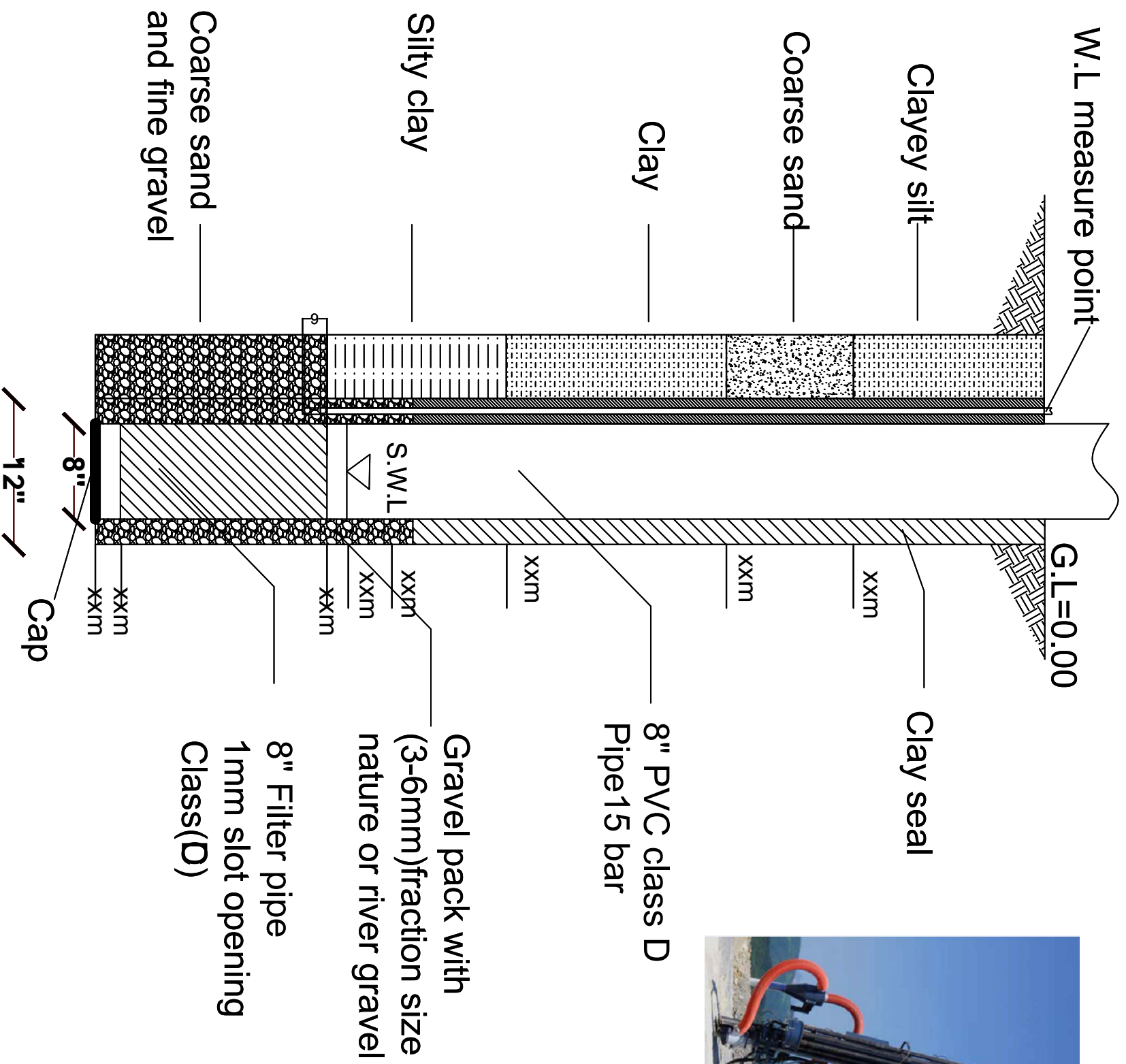
- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1.5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .
- 8-The curing must be not less than (28) days.


 **UNHCR** | Afghanistan

**KANDAHAR**  
**SCHOOL PROJECT**

Project Code	KAN - 000 - 000				
Project Title	New Construction of Boundary wall				
Drawing Title	Front Preview				
Project Location	Kandahar 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

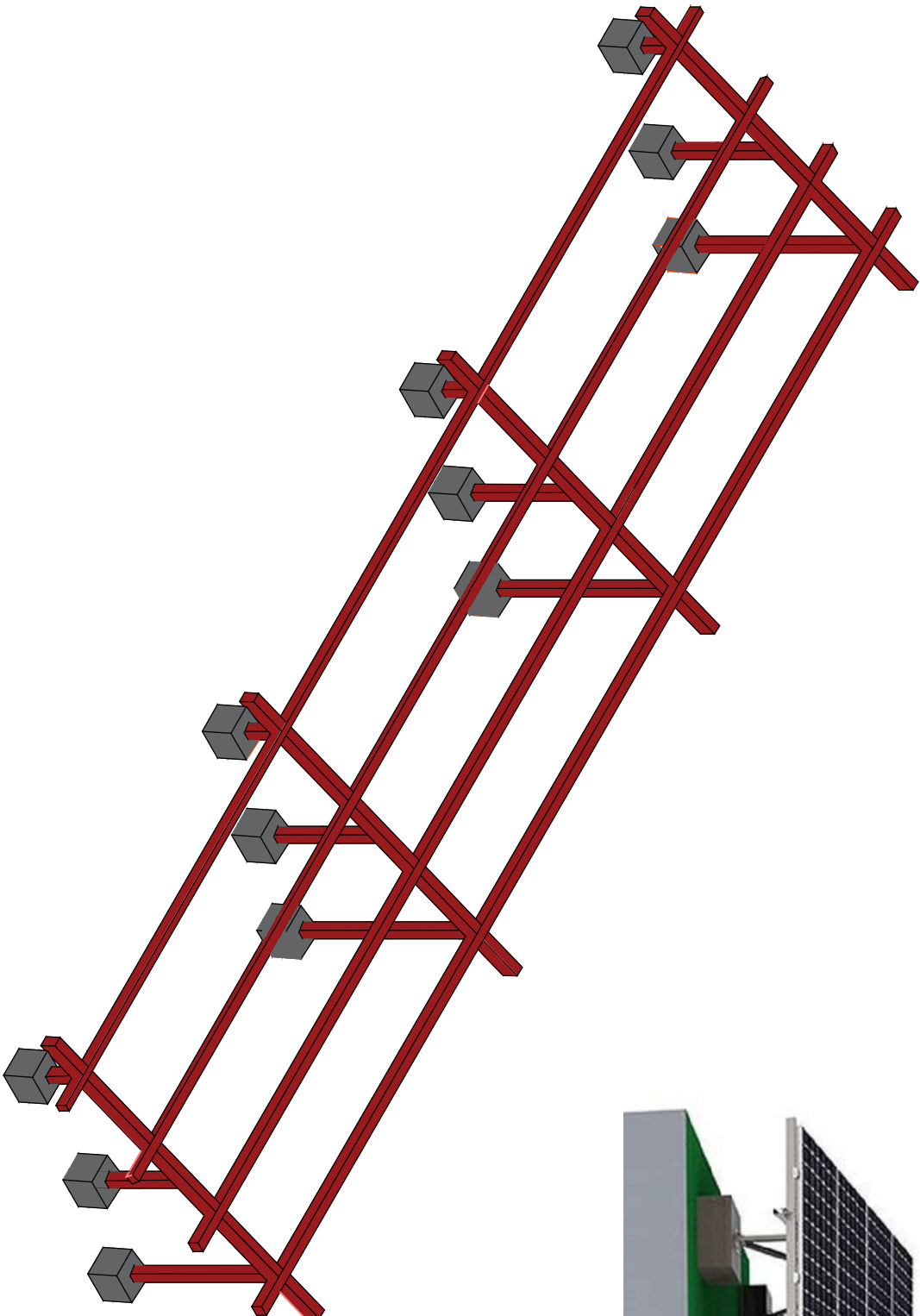
# Deep Well drilling by Compressor/Rotary



 <b>UNHCR</b>   Afghanistan <small>The UN Refugee Agency</small>					
Project Code	ORG-000-000				
Project Title	New Drilling of Deep bore well in School				
Drawing Title	Plan & front preview				
Project Location	Kandahar 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					1:1.00





Solar panel frame design and specification



Note:

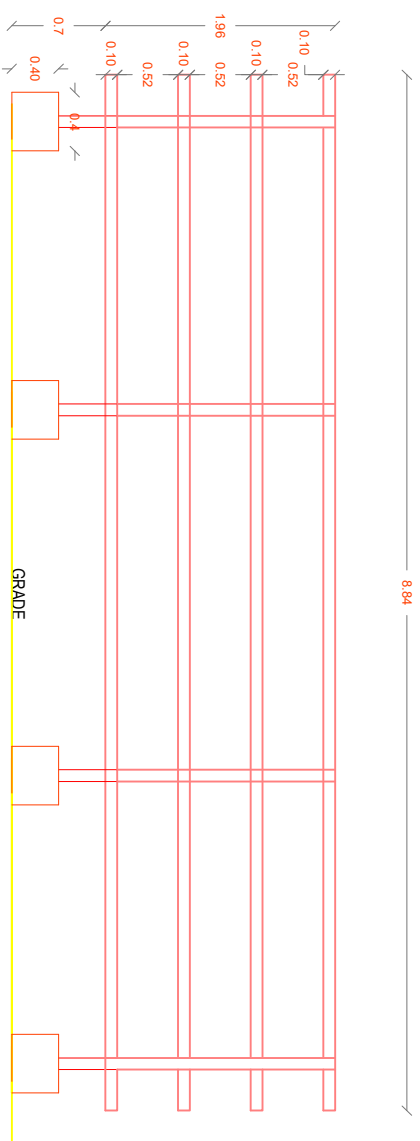
*1-All dimension are in meter .*

 <b>UNHCR</b> <small>The UN Refugee Agency</small> <b>Afghanistan</b>		 <small>وزارت امور زنان افغانستان WOMEN FOR AFGHAN WOMEN</small>	
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			

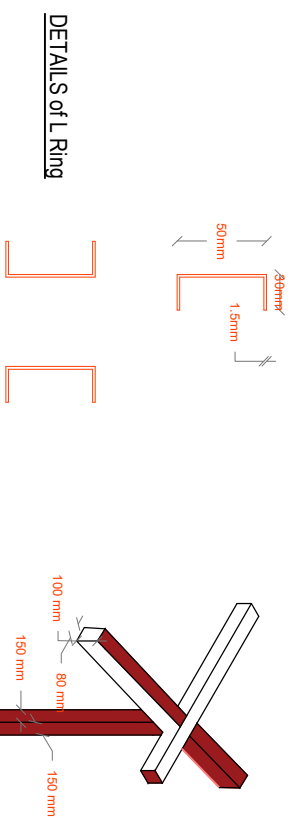




## Solar panel frame design and specification



FRONT VIEW





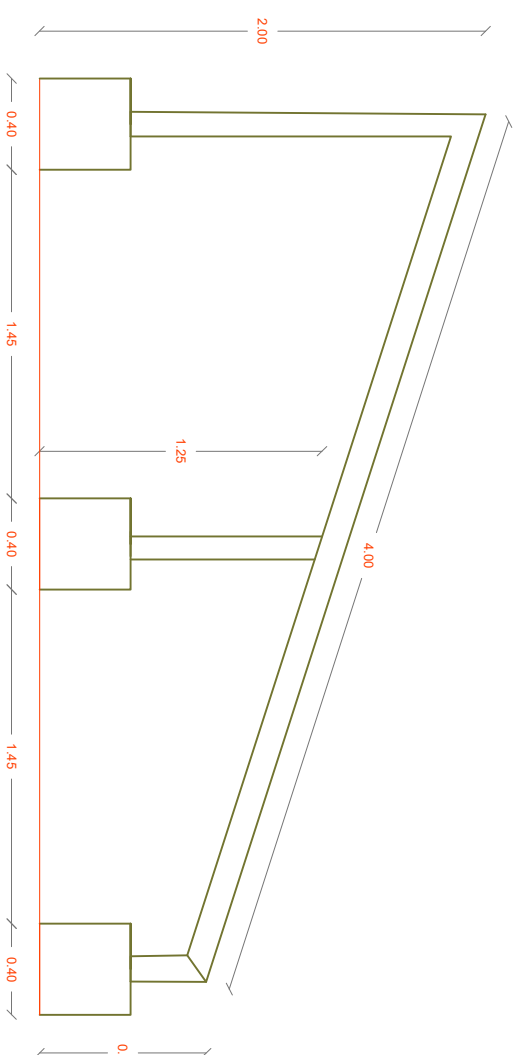
SAMPLE IMAGE



Note:

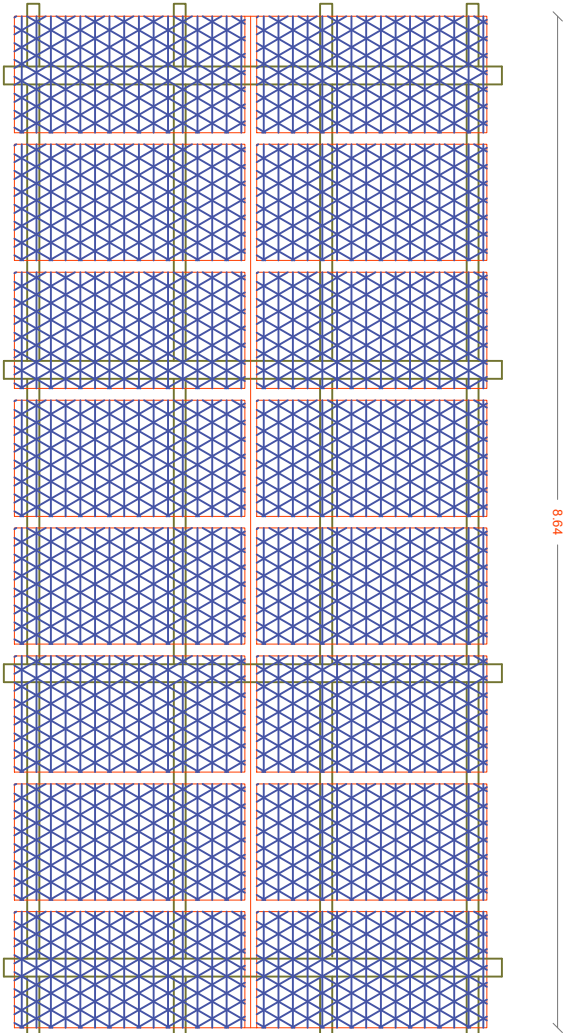
- 1-Steel for frame will be 18 Gauge
- 2-Solar panels must be netted and bolted in L Ring frames
- 3-L Ring will be (thickness=1.5mm)
- 4-Frames must be welded by electricity
- 5-All dimension are in Meter.

 <b>UNHCR</b> The UN Refugee Agency			 زنان برای زنان افغان پښتني ډالھان چيچي لياره 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 darish		
Sign					
Date					

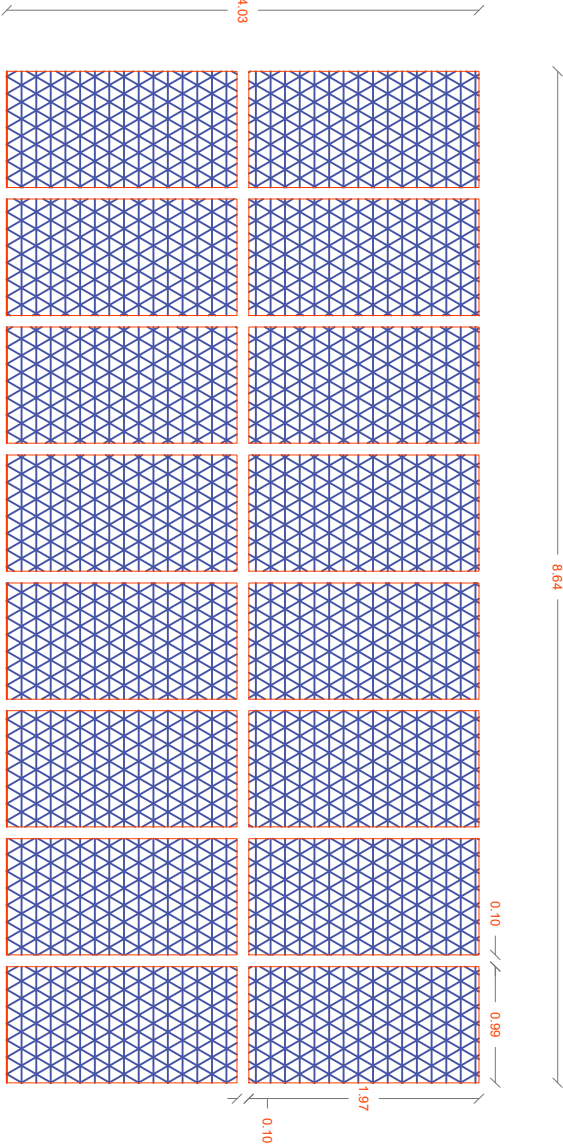


## SECTION VIEW

Solar panel frame design and specification



TOP VIEW



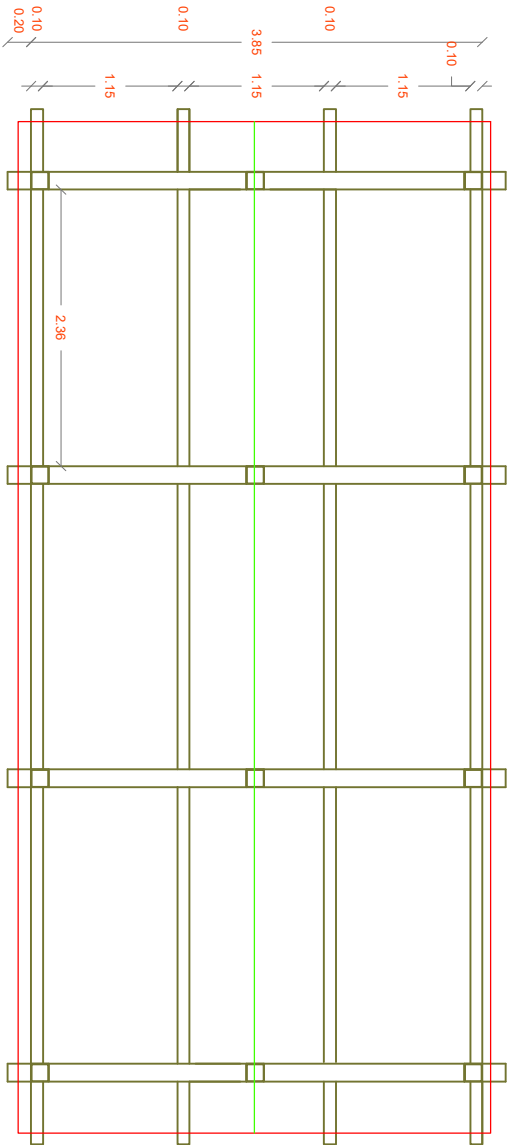
Top VIEW

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 .



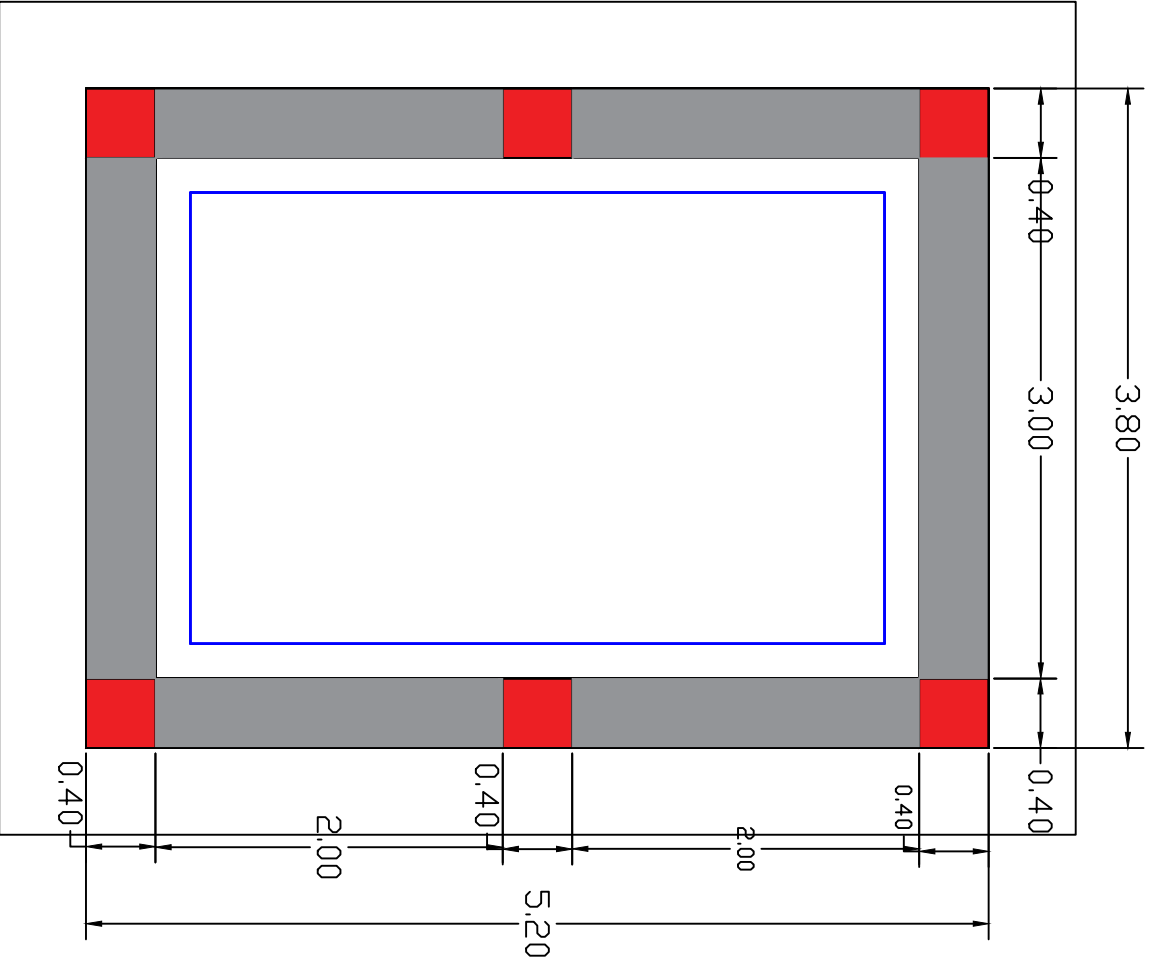
Project code	KDR - 000 - 000		
Project			
Drawing Title	Solar panel frame design and specification		
Project Location	South Region Kandahar Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr. Esmatullah	Engr. Esmatullah	Engr. Imran danish
Sign			
Date			



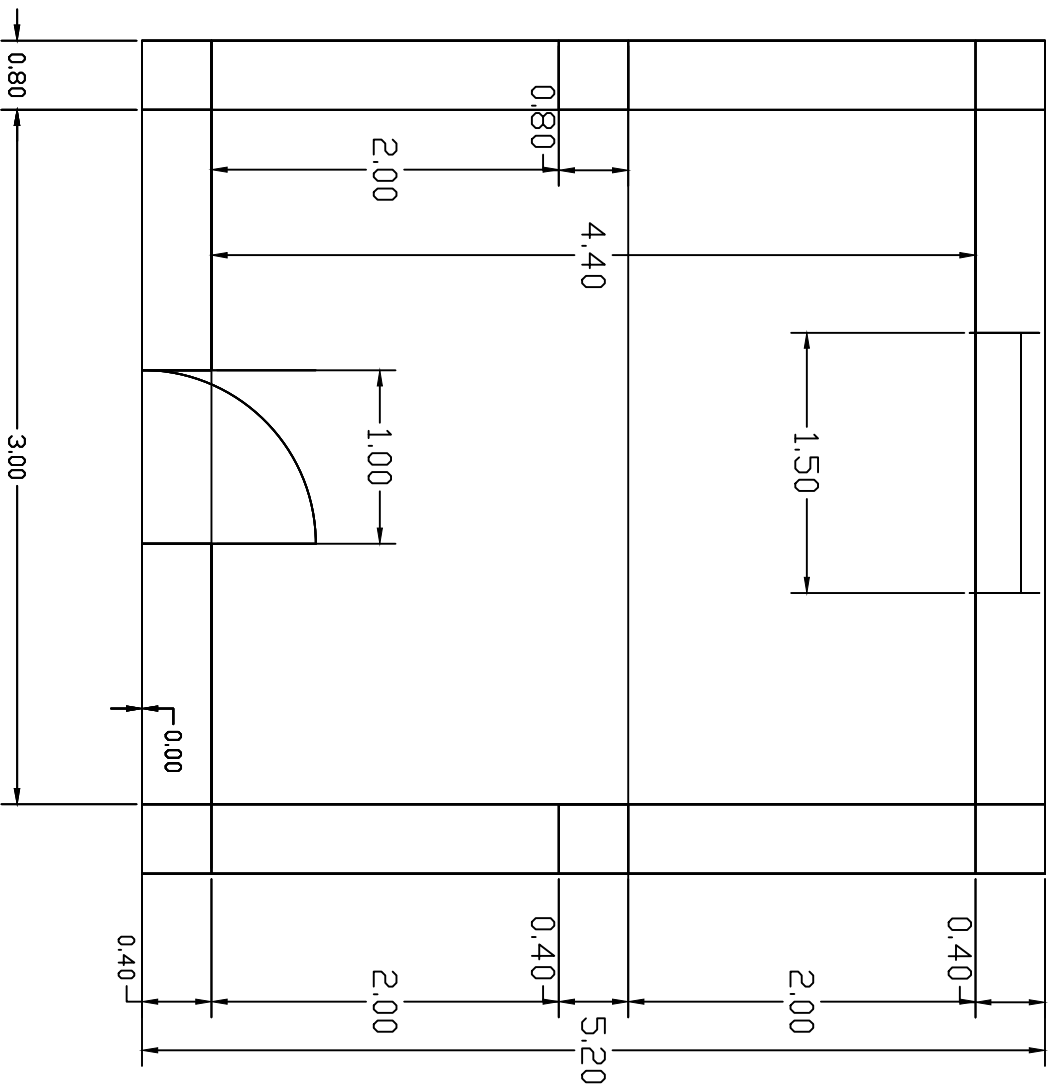
TOP VIEW

## WATER RESERVOIR with volume = 30 cumm

# PLAN OF RESERVOIR

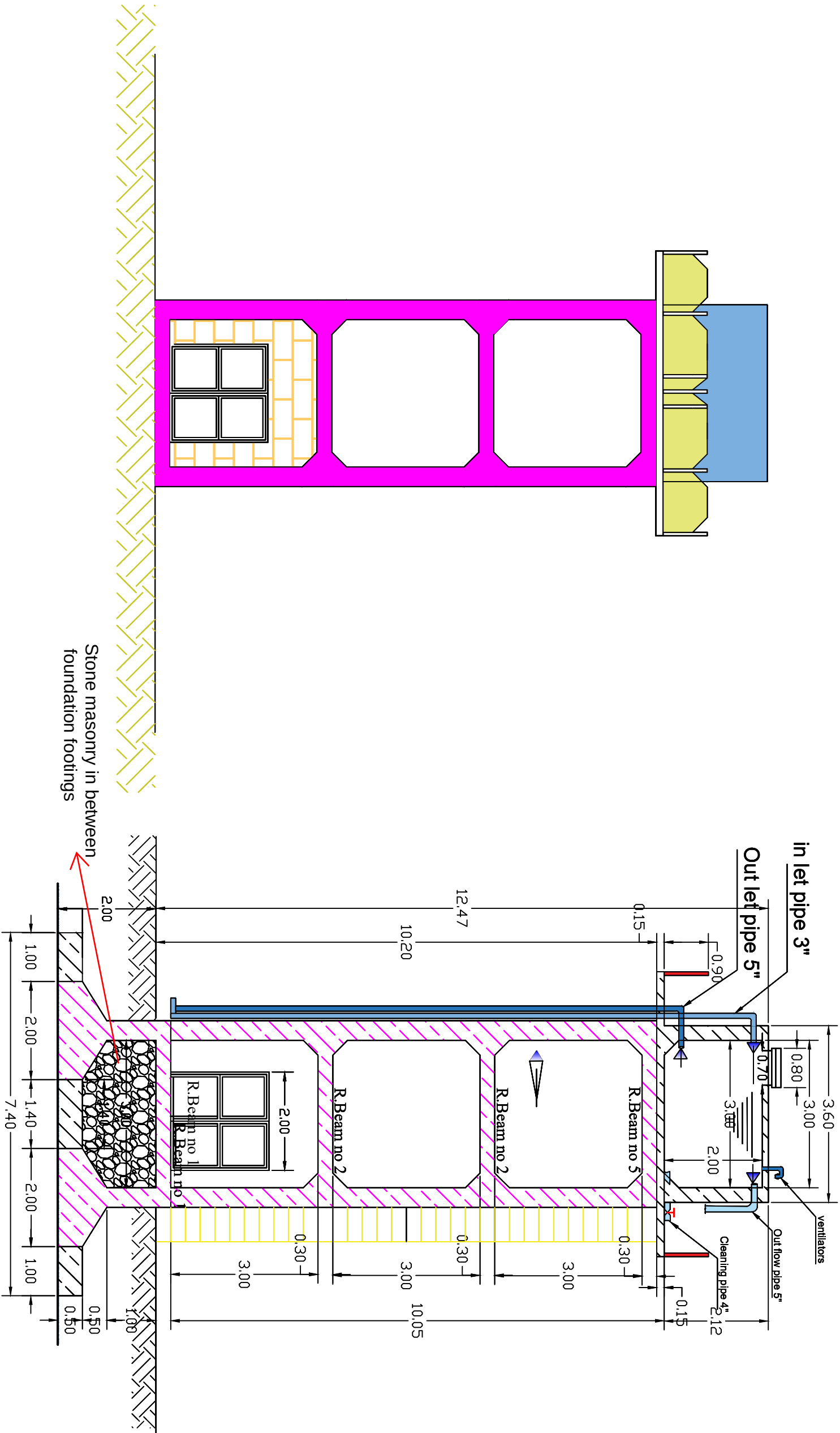


# Store room



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

FRONT ELEVATION & SECTION A-A



No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN			
1			Structural D. by	OFFICE :			
2			Drawn by	PROGRAM: WATER SUPPLY			
3			Approved by	ENGINEERING DEPARTMENT			

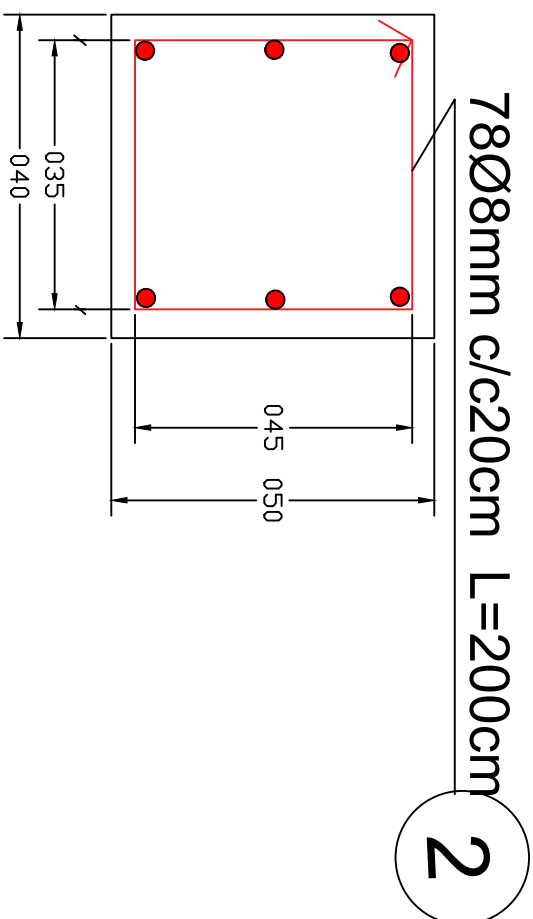
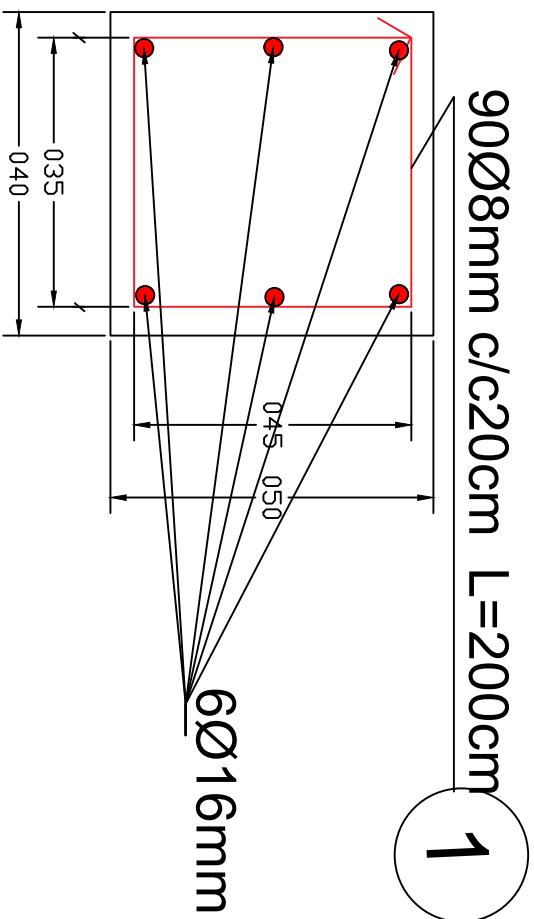
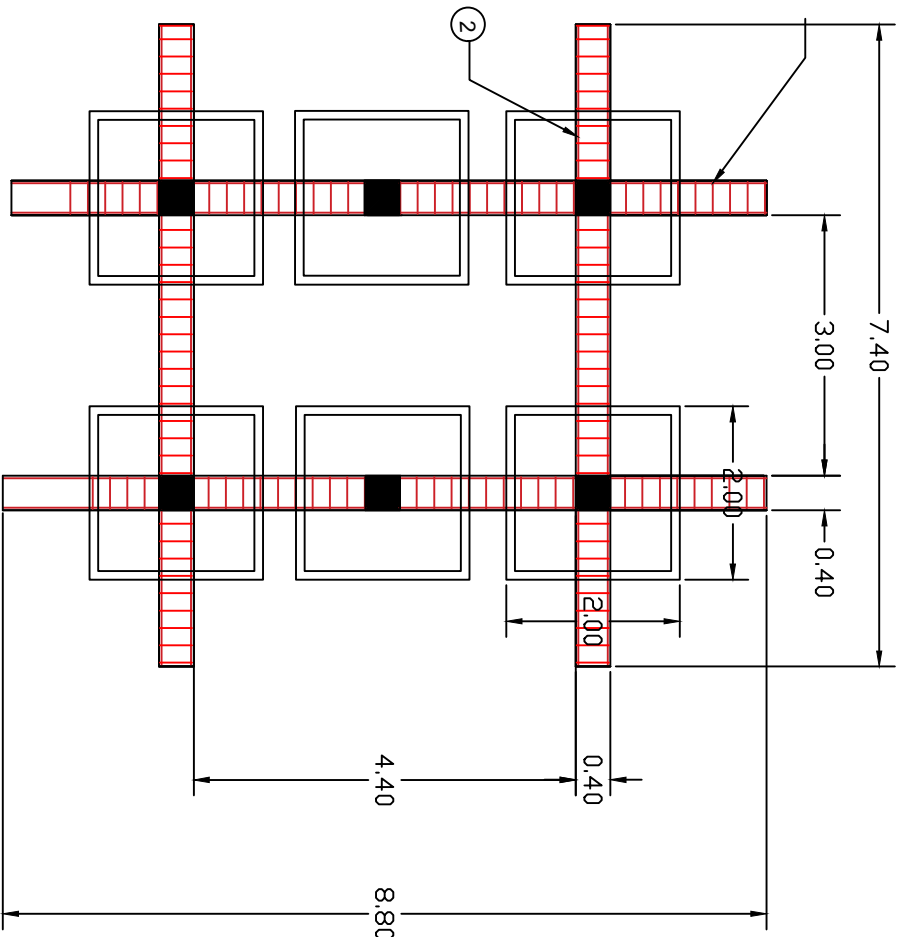
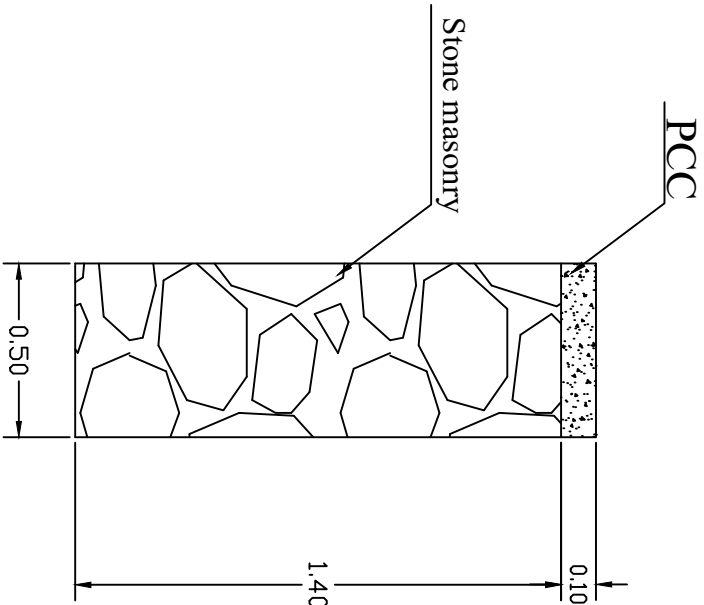
Scale	Province	Project name: RCC elevated	
1 : 100		Water reservoir 300 m3	
Date	District	Drawing Title: Plan & sections	
25 09 17			
Drawing No.	Village		
ST-01			





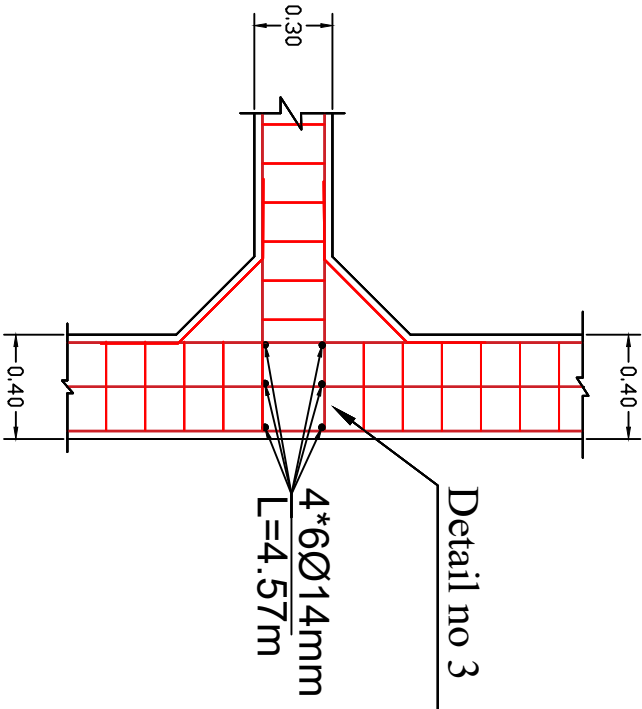
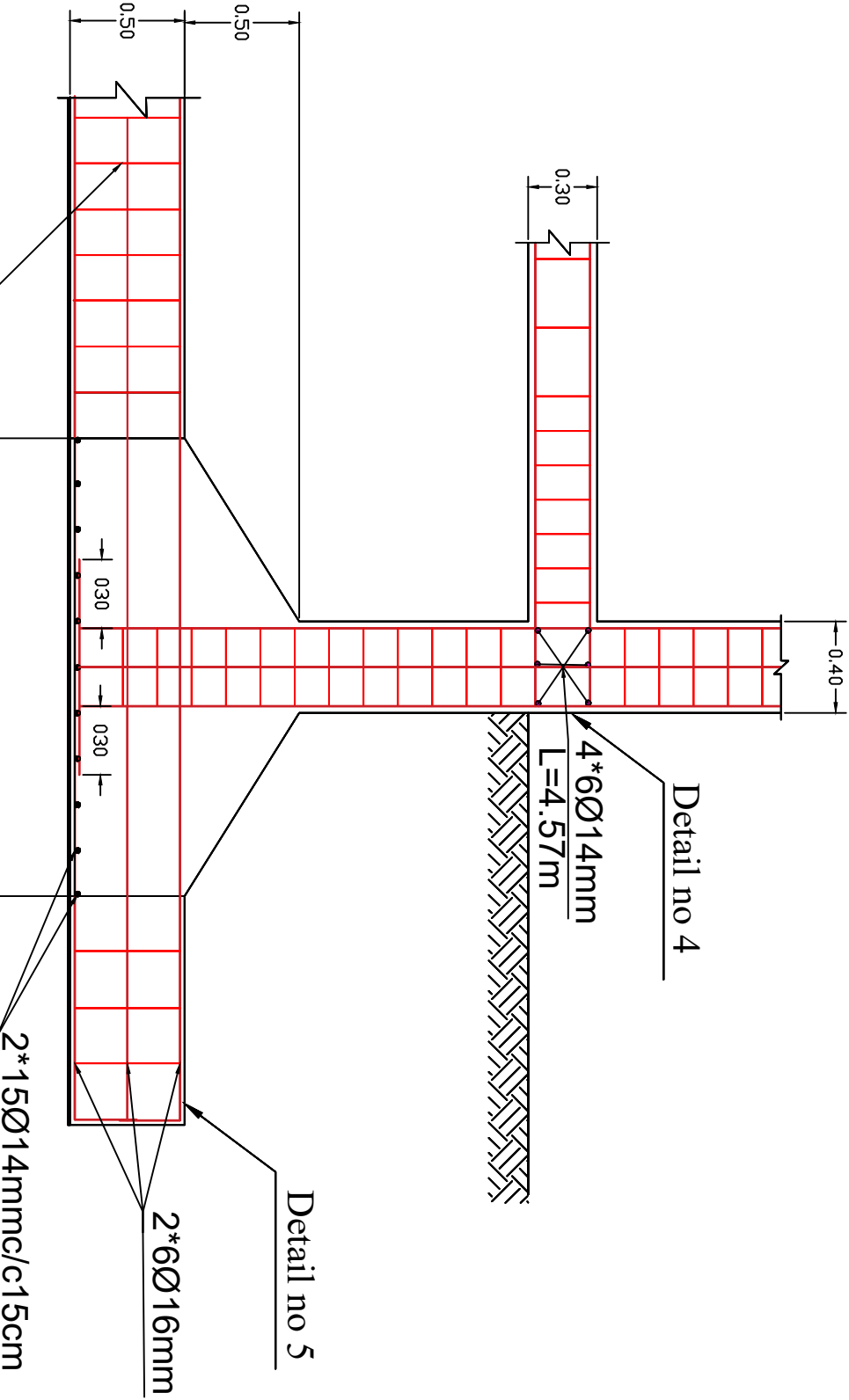
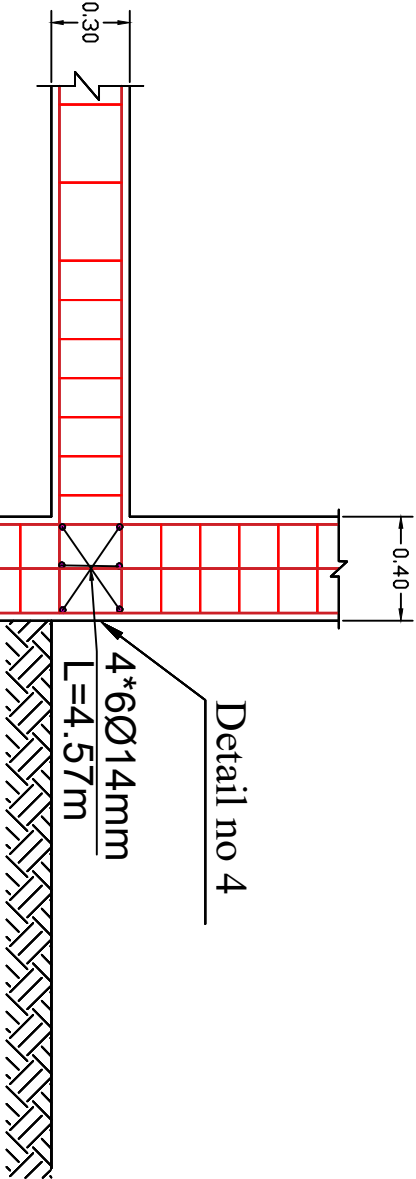
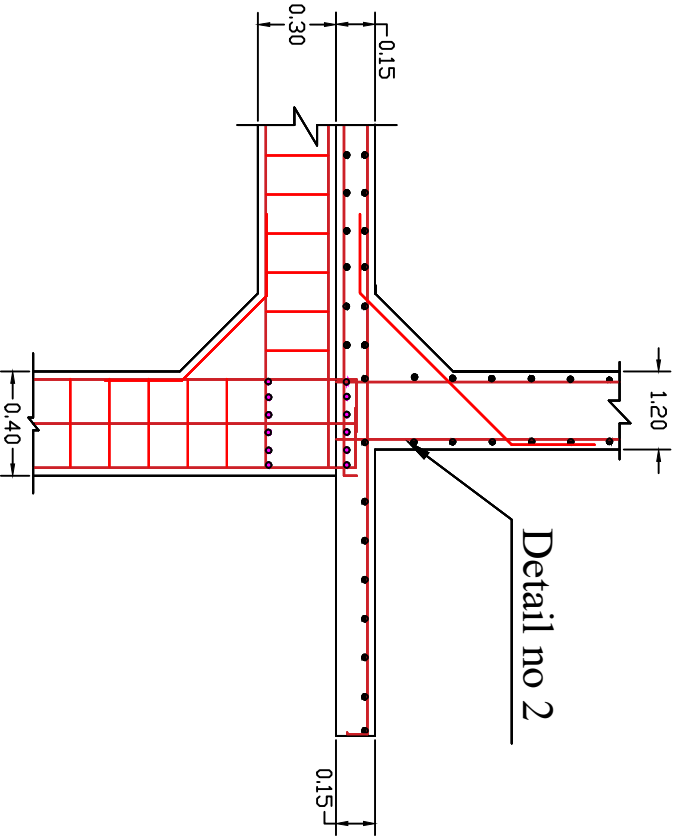
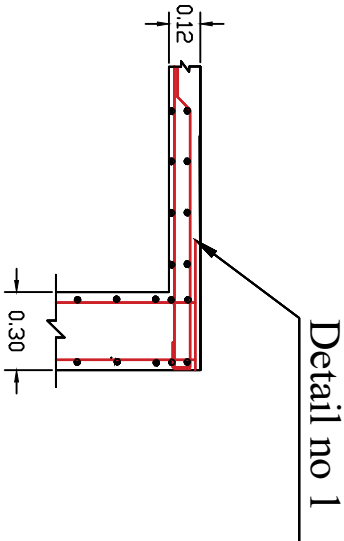
PLAN STEEL BAR OF RING BEAM ABOVE FOUNDATION

SECTION A-A  
for stone masonry in between  
foundation footings



	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									

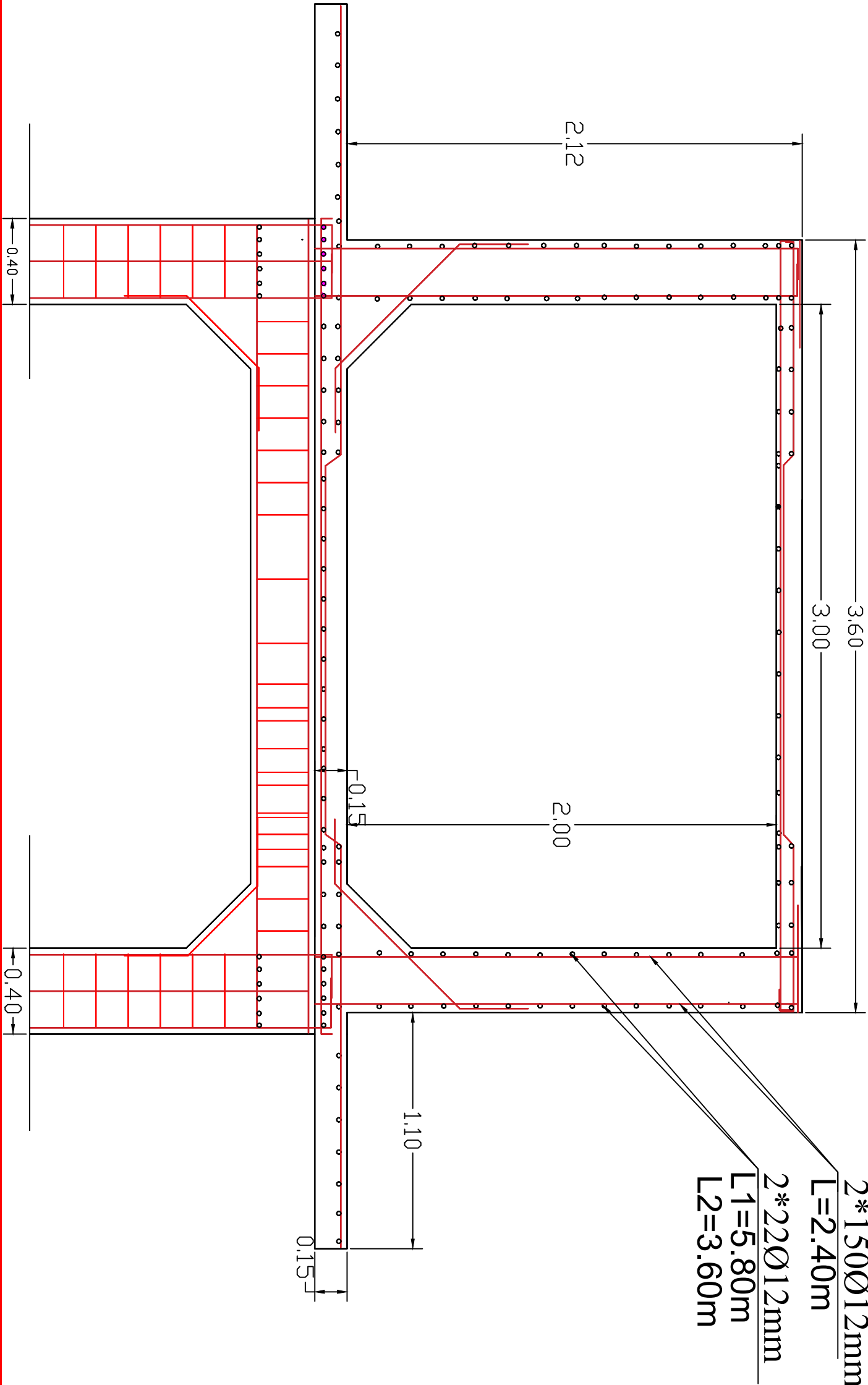
REINFORCEMENT WITH DETAILS



90Ø8mm c/c20cm L=200cm-①  
78Ø8mm c/c20cm L=200cm-②

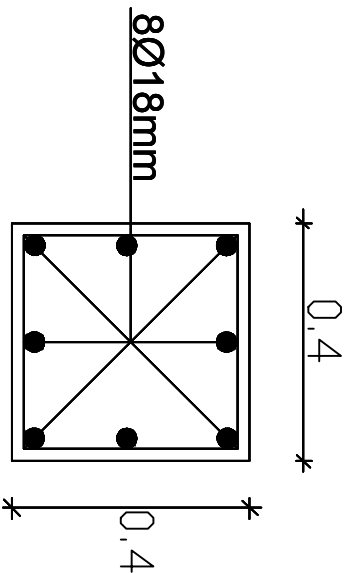
				MINISTRY OF EDUCATION AFGHANISTAN				Province	
No	Date	Revision	Survey by	OFFICE :				Scale	
1			Structural.D. by	PROGRAM:WATER SUPPLY				1 : 100	
2			Drawn by	ENGINEERING DEPARTMENT				25 09 17	
								01	

RESERVOIR REINFORCEMENT DETAILS

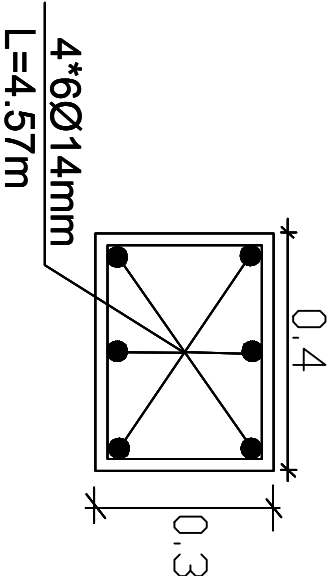


				MINISTRY OF EDUCATION AFGHANISTAN		Scale		1 : 100		<div><div></div><div>01</div><div>01</div></div>	District	Village	Project name: RCC elevated Water reservoir 300 m3 Drawing Title: Plan & sections
OFFICE :				Date		25 09 17							
PROGRAM: WATER SUPPLY				Drawing No.		ST-01							
ENGINEERING DEPARTMENT													
No	Date	Revision	Survey by										
1			Structural.D. by										
2			Drawn by										
3			Approved by										

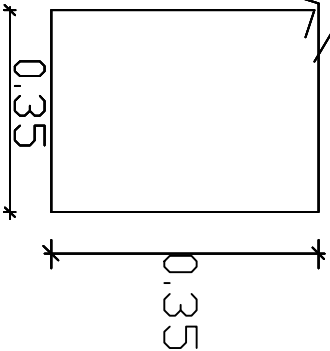
Section details for  
Columns



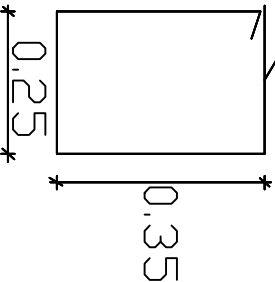
Section details for  
Beams



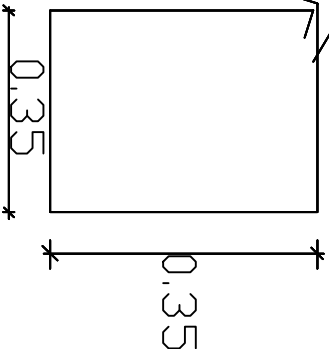
4\*45 Ø8mm c/c15cm L=1.6m



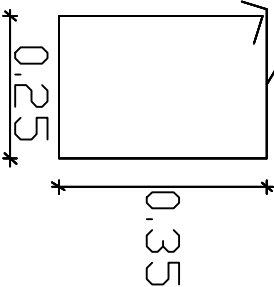
80Ø8mm c/c15cm L=1.4m



4\*14Ø 8mm c/c25cm L=1.6m



30Ø8mm c/c20cm



2x18Ø12mm@20cm



12Ø12mmc/c20cm  
L=4.47m(temp)

2x18Ø12mmc/c20cm  
L=4.55m

100Ø8mm  
L=1.4m

4\*2\*4Ø14mm  
L=4.52m

4\*2\*2Ø20mm  
L=5.19m

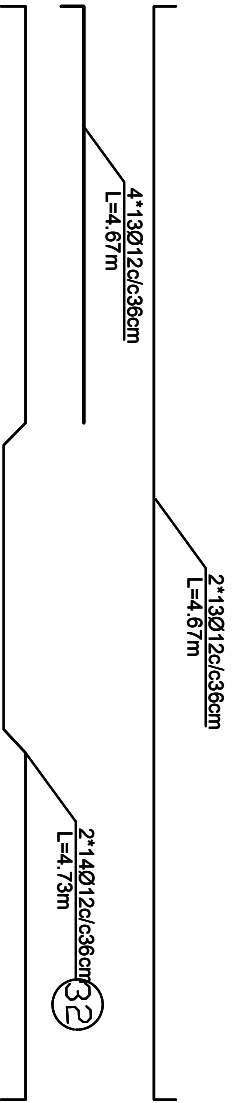
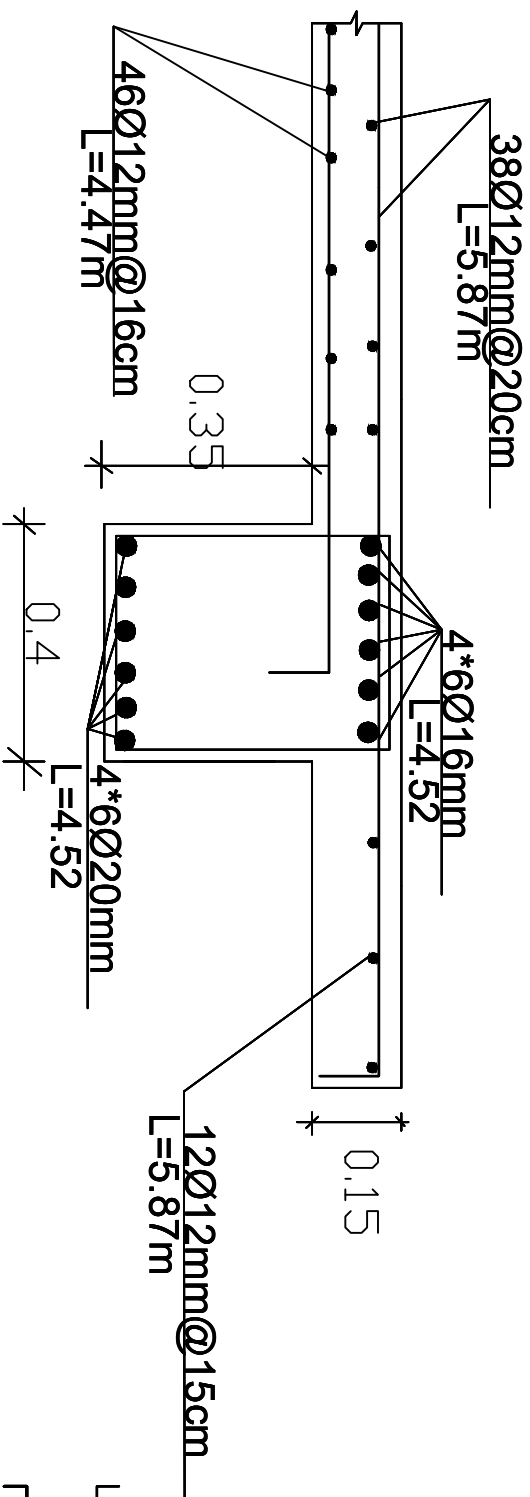
4\*2\*3Ø20mm  
L=4.52m

No	Date	Revision	Survey by	Scale	1 : 1000
1			Structural D. by	Date	25 09 17
2			Drawn by	Drawing No.	ST-01
3			Approved by		

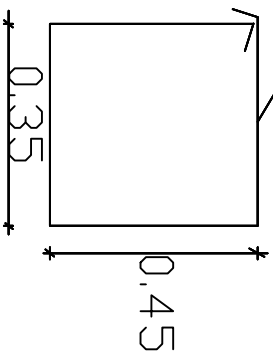
MINISTRY OF EDUCATION AFGHANISTAN  
OFFICE :  
PROGRAM:WATER SUPPLY  
ENGINEERING DEPARTMENT

Project name: RCC elevated  
Water reservoir 300 m3  
Drawing Title: Plan & sections

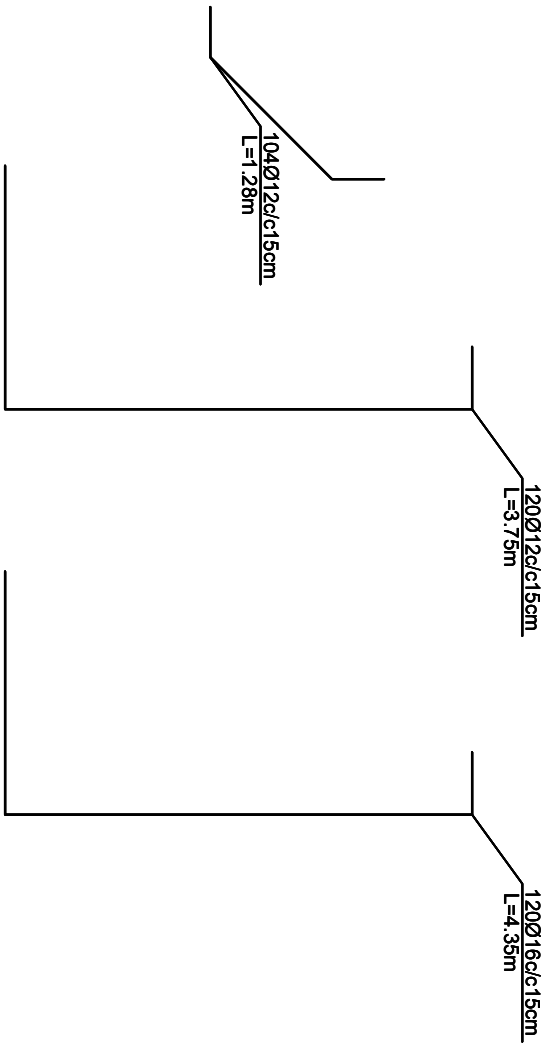
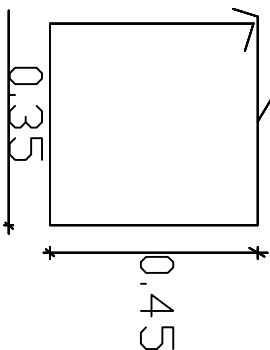
Reinforcement details for detail no 2



80Ø8mm c/c15cm L=1.80m

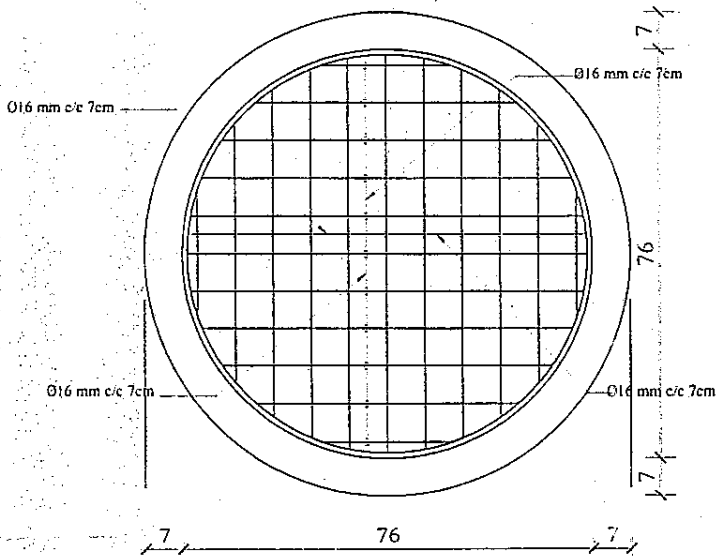


30Ø8mm c/c20cm L=1.80m



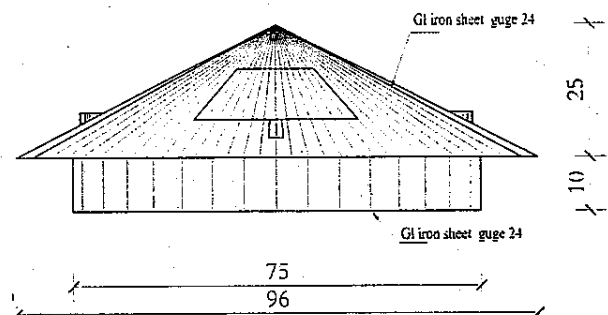
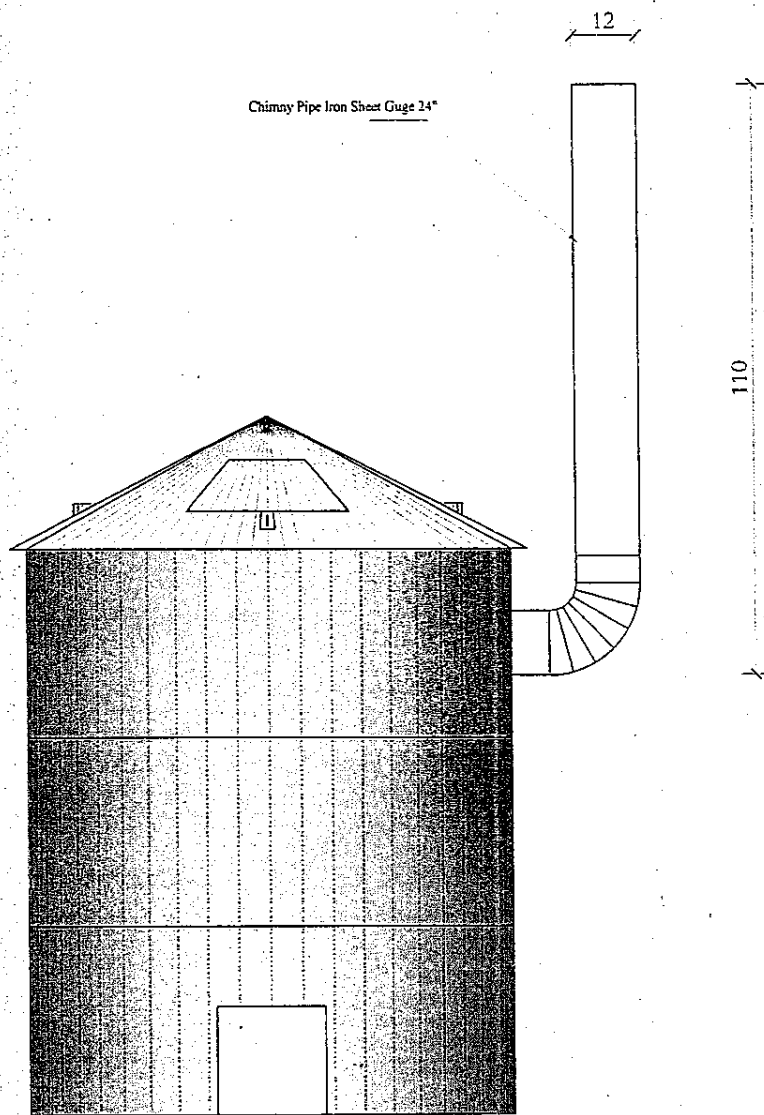
		No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN		Scale	1 : 100
		1			Structural.D. by	OFFICE :		Date	25 09 17
		2			Drawn by	PROGRAM:WATER SUPPLY			01
		3			Approved by	ENGINEERING DEPARTMENT		Drawing No.	ST-01
							District		
							Village		
							Project name: RCC elevated		
							Water reservoir 300 m3		
							Drawing Title: Plan & sections		



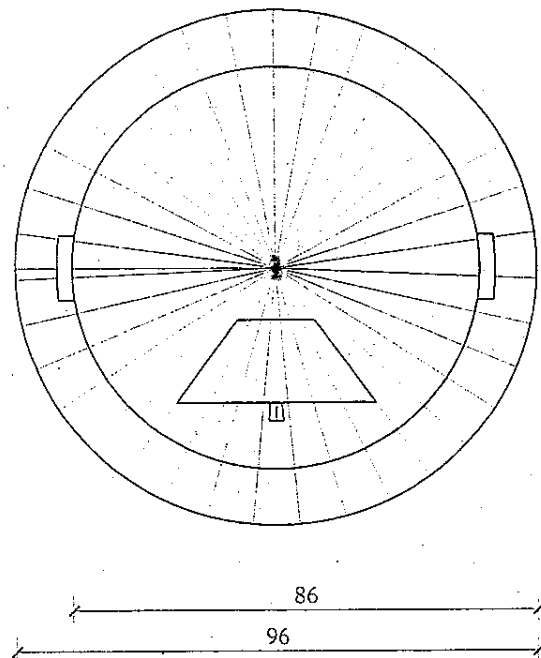


Code 201/240 Lit.

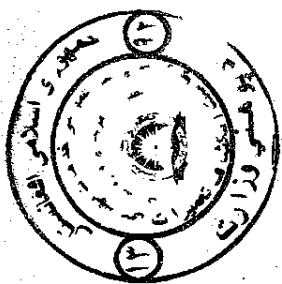
BASKET PRICE 3000 AFGHANIS. ( 1 )



View of Iron Sheet Cover guge 24"



Plan of Iron Sheet Cover guge 24"



MINISTRY OF EDUCATION  
DEPARTMENT OF CONTRACTION



STANDARD SCHOOL DESIGN  
IN AFGHANISTAN

ARCHITECTURE	DESIGNED BY	APPROVED BY	DATE	TYPE	NO. OF SHEETS

PROJECT NAME	PCC GARBAGE Ø 90 CM
DRAWING TITLE	View & detail