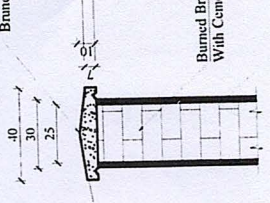


(1:2:4)

PCC Copping Cast in place W= 40cm/7-10  
Burned brick wall T= 25 cm.

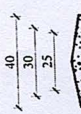


P.C.C Slab 40cm x 10cm According to Sheep.

(1:2:4)

Burned Brick Wall/  
With Cement Lime mortar

Cement + Lime Plaster / Both Sides



P.C.C Slab 40cm x 10cm According to Sheep.

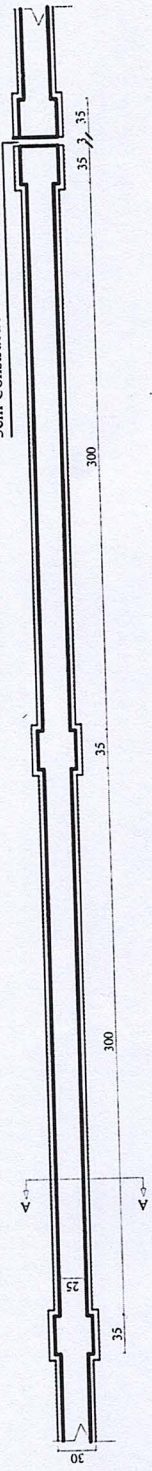
(1:2:4)

P.C.C According to Sheep.

P.C.C According to Sheep.

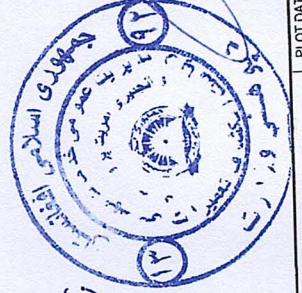
(1:2:4)

3cm Construction Joint at Each 15m.



Plan

Section A-A



دوره اول از تاریخ ۱۳۸۵/۰۶/۰۱ تا ۱۳۸۵/۰۶/۰۵  
ارائه شده است برای تأیید

۱۳۸۵/۰۶/۰۵ (h=220)

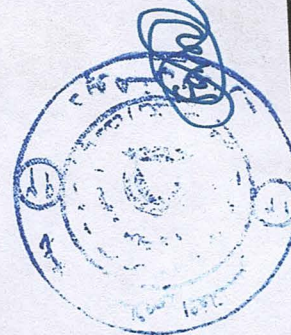
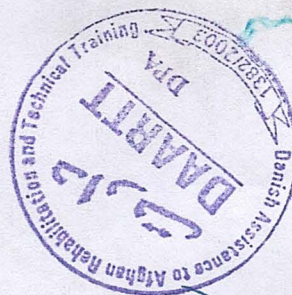
DAARTT CONSTRUCTION PROGRAM DANISH ASSISTANCE TO AFGHAN REHABILITATION & TECHNICAL TRAINING		REVISION: NO. DATE DESCRIP.		TENDER SET SUBMISSION DATE		PLOT DATE: FILE NAME: ARCHITECT: DRAWING BY: APPROVED BY:		DRAWING TITLE: BOUNDARY WALL		SCALE: SHEET NO.: 5/14
						BOUNDARY WALL Arch. Humayoun "Rauf" Ch. Firooz Akhlagi Lars Pedersen		BOUNDARY WALL		



# INDEX OF ELECTRICAL DRAWINGS FOR GUARD ROOM

## ELECTRICAL

SHEET NO	DRAWING NO	DRAWING TITLE	SCALE
		LEGEND, GENERAL NOTES & ABBREVIATIONS:	
G-00		IN COMING CABLE PLAN	NTS
EG-01		LIGHTING PLAN	NTS
EG-02		CABLE PLAN	NTS
EG-03		MDB DIAGRAM PLAN	
EG-04			





# GENERAL NOTES AND LEGEND

## ELECTRICAL SYSTEMS

### LIGHTING:

SF-1	SURFACE MOUNTED ENERGY SEVERE TUBULOBE FITTING ROUND LIGHT 120W, 220V, 50Hz
SF-2	SURFACE MOUNTED ENERGY SEVERE TUBULOBE FITTING ROUND LIGHT 240W, 220V, 50Hz
	SURFACE MOUNTED TUBULOBE FITTING ROUND LIGHT 120W, 220V, 50Hz

### RECEPTACLES:

	SINGLE RECEPTACLE, 220V, 16A, 1PH, 3PAIN DIA MOUNTING HEIGHT = 400mm AFFL
	SINGLE RECEPTACLE WATER PROOF, 220V, 16A, 1PH, 3PAIN DIA MOUNTING HEIGHT = 80mm AFFL

### SWITCHES:

	SINGLE POLE SWITCH, 220V, 50Hz, 10A, MOUNTED AT 1200mm AFF
	DOUBLE POLE SWITCH, 220V, 50Hz, 10A, MOUNTED AT 1200mm AFF

### PANEL BOARD

MB	MAIN DISTRIBUTION BOARD (MDB)
SB	SUB DISTRIBUTION BOARD (SDB)
	LIGHTS FOR ON OFF PHASING

### POWER

	SINGLE PHASE AUTO CIRCUIT BREAKER
	THREE PHASE AUTO CIRCUIT BREAKER
	120mmX120mm JUNCTION BOX
	CIRCUIT HOME RUN TO ELECTRICAL PANEL BOARD LIGHTING PANEL BOARD
	WIRE 1(2x1.5mm <sup>2</sup> ) TYPE NYF
	WIRE 1(3x2.5mm <sup>2</sup> ) TYPE NYF
	FLEXIBLE CABLE 16 X 9mm <sup>2</sup>
	FLEXIBLE CABLE 16 X 16mm <sup>2</sup>

### GROUNDING AND LIGHTNING:

	GROUNDING ROD 3m, Ø20mm
	GROUNDING CONDUCTOR
	EXOTHERMIC WELDED GROUND CONNECTION
	3 METER LENGTH Ø 20mm DIAMETER, COPPER GROUNDING ROD

### COLORS CODE

IEC WIRE COLORS (60227)			
GROUND	NEUTRAL	PHASE A	PHASE B
YEL/GRN	BLUE	BROWN	BLACK
			GRAY

## LEGEND, GENERAL NOTES & ABBREVIATIONS:

REVISION: NO. DATE DESCRIPTION

DAARTT CONSTRUCTION PROGRAM  
DANISH ASSISTANCE TO AFGHAN REHABILITATION  
& TECHNICAL TRAINING

SCALE: NTS

AMERICAN CONDUCTOR	CONVERSION CHART	ADDITIONAL	CROSS SECTION
AWG	mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>
12	3.31	4	4
10	5.27	6	6
8	8.11	10	10
6	13.3	16	16
4	21.2	25	25
3	26.7	35	35
2	33.6	50	50
1	42.4	70	70
		95	95
		120	120
		150	150
		185	185
		240	240
		300	300

### ABBREVIATIONS:

AMP	AMPERE
AFLL	ABOVE FINISH FLOOR LEVEL
AF	AMP FRAME
AT	AMP TRIP
BL	BAILER
C/CON	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CU	CONVERTING UNIT
CHH	COMMUNICATION HANDHOLD
Ø/DIA	DIAMETER
E/FAN	EXHAUST FAN
EHT	ELECTRICAL HANDHOLD
EKT	ELECTRIC METALLIC TUBING
EW	ELECTRICAL WATER HEATER
WT	WATER PROOF
FACP	FAIRE ALARM CONTROL PANEL
GFCL	GROUND FAULT INTERRUPTER
GRI	GALVANIZED RIGID STEEL
HPS	HIGH PRESSURE SODIUM
HP	HORSEPOWER
HZ	HERTZ
L	LIGHT
L/F	LIGHT FIXTURE
LPP	LIGHTING POWER PANEL
LPB	LIGHTING POWER BOARD
L.F.	LIGHT FIXTURE
N	NEUTRAL
N/S	NOT TO SCALE
NCP	MAIN LOAD PANEL
MAX	MAXIMUM
MECH	MECHANICAL
MLO	MAIN LUGS ONLY
mm	MILLIMETER
NTS	NOT TO SCALE
P	POLE
PC	PHOTO CELL
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE
PH	PHASE
RW	ROOM
SCH	SCHEDULE
SP	SPECIAL
SW	SWITCH
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHER PROOF
LC	LIGHTING CIRCUIT
TDB	TECHNICAL DISTRIBUTION BOARD

### INSTALLATION OF EQUIPMENTS:

- GROUNDING/EARTHING SHALL BE ACCORDING TO SHEET NO E-12
- ALL WIRING SHALL BE SPREAD WIRE WITHOUT CONDUCT UNDER PLASTERING
- GRADING SHALL BE ACCORDING TO THE PANEL BOARD AND CIRCUIT SCHEDULE
- LIGHTS SPECS ARE TABULATED IN THE DRAWINGS. REFER TO THE TABLE BEFORE PURCHASING LIGHTS
- SWITCHES AND SOCKETS SHALL BE INSTALLED 15 CM OFF THE DOORS AND WINDOWS
- GRID POWER CABLE GOES TO PANEL BOARD. IT IS LOCATED IN GUARD ROOM.
- PANEL BOARD IS CONNECTED TO SUB PANEL BOARD NO 1
- SWITCHES SHALL BE INSTALLED 120 CM ABOVE THE FINISHED FLOOR
- SOCKETS SHALL BE INSTALLED 40 CM ABOVE THE FINISHED FLOOR
- GFI SOCKET SHALL BE INSTALLED 180 CM ABOVE THE FINISHED FLOOR
- JOINT BOX SHALL BE 30 CM OFF THE FINISHED CEILING
- FUSE BOX SHALL BE INSTALLED 180 CM ABOVE THE FINISHED FLOOR
- ALL FUSE BOXES SHALL HAVE 40 % SPARE CAPACITY
- DISTANCE OF SOCKET SHALL BE ACCORDING TO THE PLANNED DISTANCE.

### STANDARD AND CODE REFERENCES:

IN ORDER TO IMPROVE THE QUALITY OF DESIGN ALL PERFORMANCES SHALL BE ACCORDING TO THE CODES, STANDARDS AND USING SOFTWARE'S, CODES, STANDARDS AND SOFTWARE'S ARE AS FOLLOWING:

- NEC: NATIONAL ELECTRIC CODE.
- NEMA: NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- IEC: INTERNATIONAL ELECTRO TECHNICAL COMMISSION.
- BS: BRITISH STANDARD.
- IEC60364: INTERNATIONAL ELECTRO TECHNICAL COMMISSION.
- IEEE: INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS.
- NFPA: NATIONAL FIRE PROTECTION ASSOCIATION
- CEC: CANADIAN ELECTRICAL CODE
- NESC: UNITED STATES, NATIONAL ELECTRICAL SAFETY CODE.
- NESC: NATIONAL ELECTRICAL SAFETY CODE (ANSI C2).

### GROUNDING:

ALL POWER PANELS, BUS BARS, CIRCUIT BREAKERS, CIRCUITS AND EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT - SHALL BE GROUNDED IN ACCORDANCE WITH THE DESIGN WORK BUILDINGS WIRING. ALL WIRING SHALL BE GROUNDED. GROUND RODS MUST BE VISUALLY METAL TYPING IN GROUND SYSTEMS SHALL BE TESTED AND FOUND TO BE IN COMPLIANCE WITH CODE REQUIREMENTS BEFORE ACCEPTANCE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC 2008.

THE GROUNDING RESISTANCE SHALL BE NO HIGHER THAN 25 OHMS EXCEPT RAINFALL ADDITIONAL RODS SHOULD BE USED TO ACHIEVED THE REQUIRED RESISTANCE.

NOTE:  
FOR GENERAL NOTE-REFER TO THE SHEET E- 01  
FOR LEGEND AND ABBREVIATION REFER TO THE SHEET E- 01  
FOR IN COMING CABLE PLAN REFER TO THE SHEET E-01  
FOR SDB-1 DIAGRAM PLAN REFER TO THE SHEET E-06  
FOR SDB-2 DIAGRAM PLAN REFER TO THE SHEET E-07  
FOR SDB-3, SDB-4, SDB-5 DIAGRAM PLAN REFER TO THE SHEET E-08  
FOR DETAIL PLAN REFER TO THE SHEET E-09  
FOR EARTHING DETAIL PLAN REFER TO THE SHEET E-10

DRAWING TITLE:

LEGEND, GENERAL NOTES & ABBREVIATIONS:

SCALE:

SHEET NO:

G-00

DRAWING BY:

APPROVED BY:

FILE NAME:

RCC-16 Classroom School Building

Eng. Farhad

Lars "Parderson"

PLOT DATE:

TENDER SET SUBMISSION

DATE:

RCC 16 CLASSROOM SCHOOL BUILDING

MANAWAT FARYAB PROVINCE