امارت اسلامی افغانستان

معاونیت مالی و اداری

ریاست طرح و دیزاین امور ساختمانی

نقشه های مهندسی

اعمار پسته خانه های تیپیک شرکت دولتی افغان پست افغانستان

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SHEET No.	FILE NAME	DRAWING TITLES	SCALE
		ARCHITECTURAL	

Designed by: Sayed karim ehsyan
Drawn by: Sayed karim ehsyan
Checked by: Head of Department

No	Submission Description	Date
01	For Tender	1402/08/05

Contract No
Contract Date
Fiscal Year: 1402/1403
Drawn Date: [illegible]
Paper Size: A3
Final Date: 1402/08/5
Scale: 1:75

AFGHAN POST TRANSIT POSTGRADE
AL PROVINCE OF AFGHANISTAN
FOR [illegible] BUILDING
KABA

Reference Number

ریاست اداری
Admin Directorate

GENERAL NOTES:

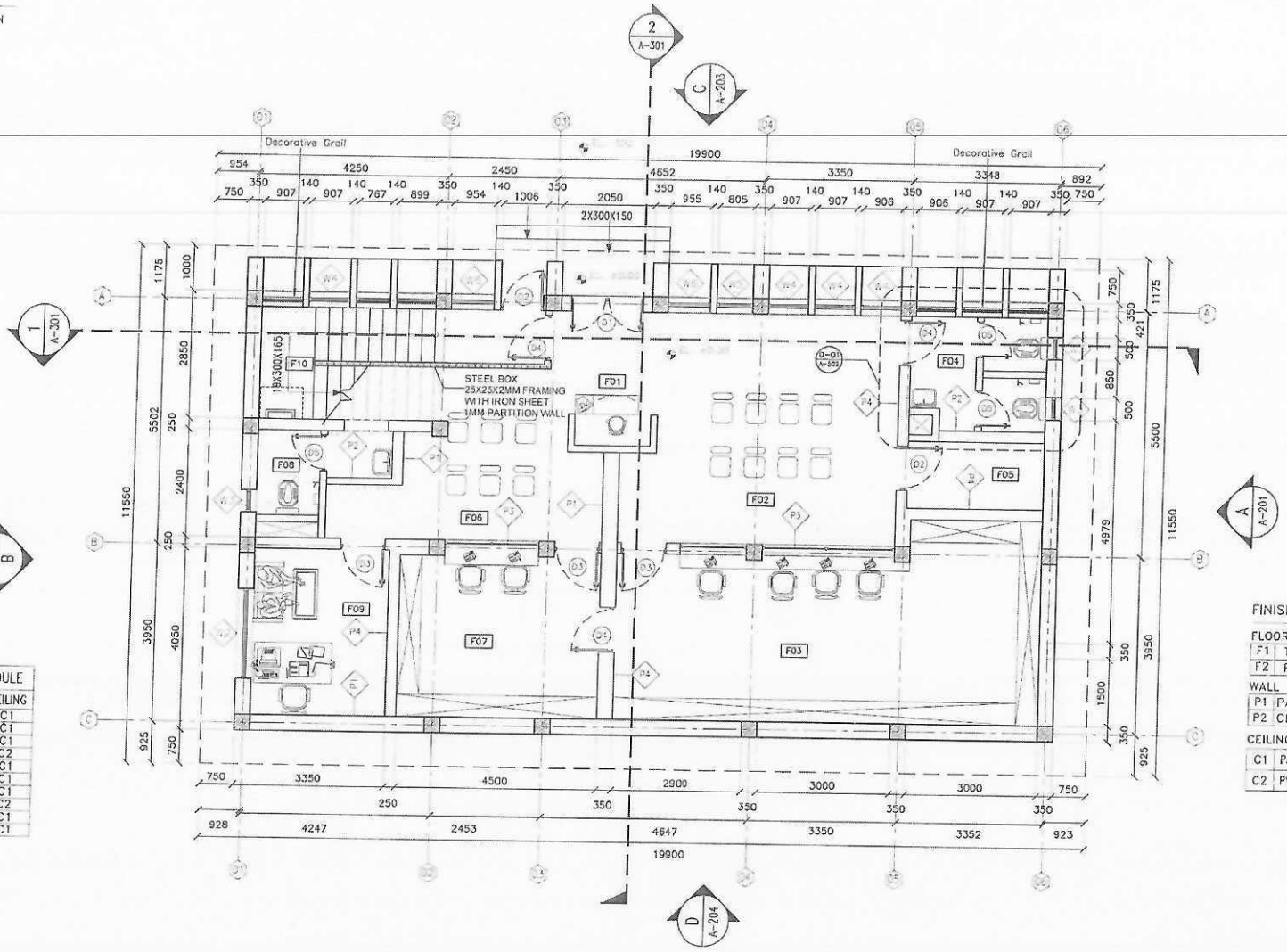
1. ALL DIMENSIONS INDICATED IN THE DRAWINGS ARE IN MM UNIT UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR WALLS TO BE PAINTED PLASTER.
4. ALL CEILINGS TO BE PAINTED PLASTER.
5. ALL METAL ROOFING SHALL BE ZINC COATED (GALVANIZED) AND HAVE A MINIMUM THICKNESS OF GAUGE 24.

ABBREVIATIONS

U.N.O.	UNLESS NOTEDOTHERWISE
mm	MILLIMETER
TYP.	TYPICAL
FFL	FINISHED FLOOR LINE
EL.	ELEVATION
M	METER

PARTITION TYPES

- P1 — 350MM BRICK WALL UP TO FALSE CEILING HEIGHT.
- P2 — 300MMX300MMX6MM CERAMIC TILE
- P3 — GLASS WINDOW FOR PARTITION
- P4 — 250MM BRICK WALL UP TO FALSE CEILING HEIGHT.



LEGENDS AND SYMBOLS

- X — ROOM IDENTIFICATION
- X — DOOR TAGS
- X — WINDOW TAGS
- X — PARTITION TYPE
- FLOOR ELEVATION TAG

FINISHING SCHEDULE LEGEND

FLOOR	
F1	TERRAZZO TILE
F2	FLOOR TYPE CERAMIC TILE
WALL	
P1	PAINTED PLASTER
P2	CERAMIC TILE UP TO CEILING
CEILING	
C1	PAINTED PLASTER
C2	PVC SUSPENDED CEILING 60X60CM

BUILDING IDENTIFICATION / FINISHING SCHEDULE

NO	Usage	FLOOR	WALL	CEILING
F01	INFORMATION DESK	F1	P1	C1
F02	MALE HALL	F1	P1	C1
F03	MALE OFFICE WITH BANK	F1	P1	C1
F04	MALE TOILET	F2	P2	C2
F05	ELECTRICAL ROOM	F1	P1	C1
F06	FEMALE HALL	F1	P1	C1
F07	FEMALE OFFICE	F1	P1	C1
F08	FEMAIL TOILET	F2	P2	C2
F09	OFFICE MANAGEMENT	F1	P1&P4	C1
F10	STAIR	F1	P1	C1

01 FIRST FLOOR PLAN

A-101 REF. A-101 SCALE 1:100

Designed by: Saiyed karim shirgyan
Drawn by: Saiyed karim shirgyan
Checked by: Field of Department
Approved by: Author of Department

No. | Submission Description | Date
01 | For Tender | 14/03/2022

Contract No.
Contract Date
Finish Year: 1400/1401
Start Date: 2/11/20
Finish Date: 1/2
Job Type: Construction
Area: 1000

AFGHAN POST TRUCK POST IN AFGHANISTAN
IN PROVINCE OF AFGHANISTAN
POST BASE: 1
Sheet Reference Number

ریاست اداری
Admin Directorate

GENERAL NOTES:

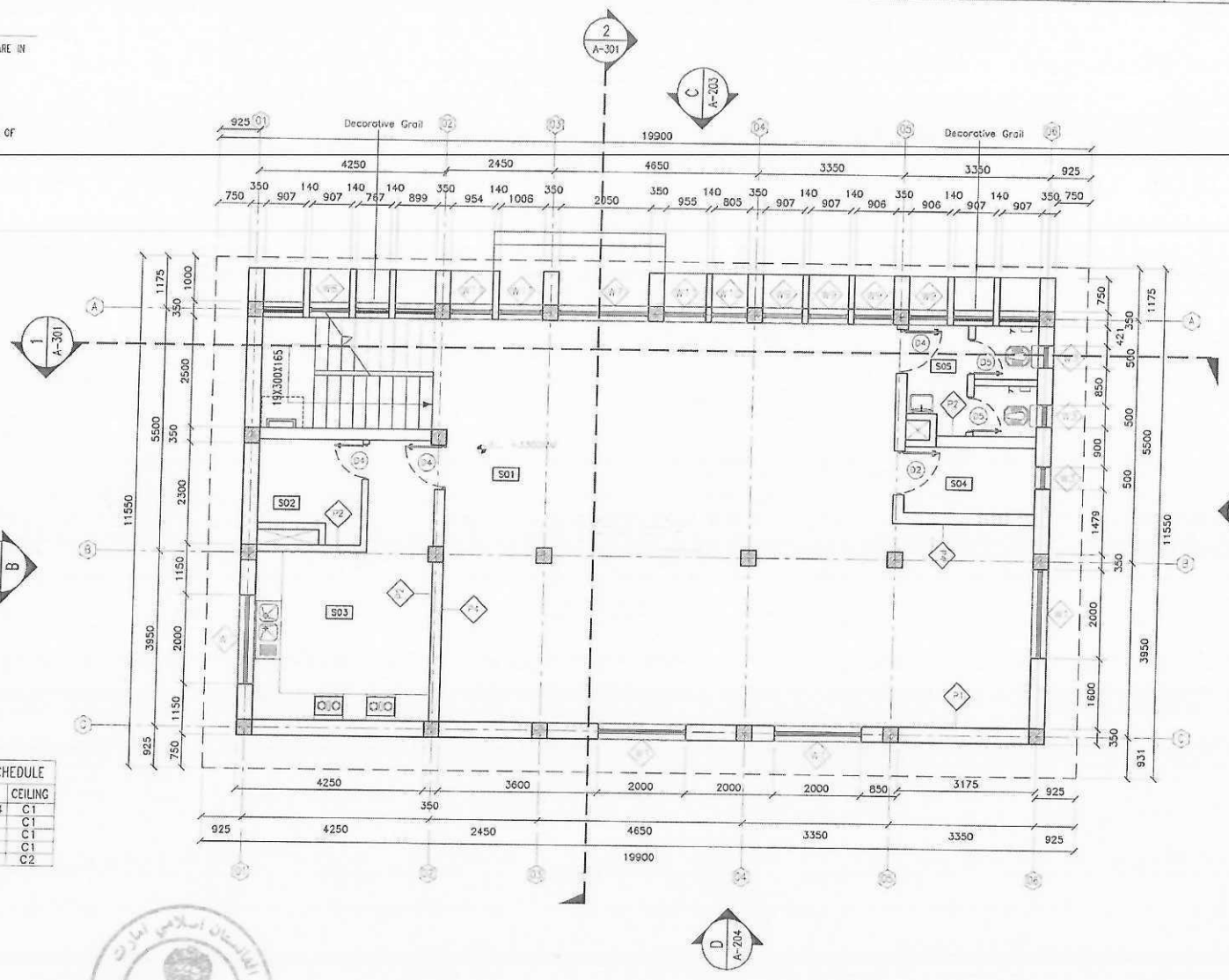
1. ALL DIMENSIONS INDICATED IN THE DRAWINGS ARE IN MM UNIT UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR WALLS TO BE PAINTED PLASTER.
4. ALL CEILINGS TO BE PAINTED PLASTER.
5. ALL METAL ROOFING SHALL BE ZINC COATED (GALVANIZED) AND HAVE A MINIMUM THICKNESS OF GAUGE 24.

ABBREVIATIONS

U.N.O.	UNLESS NOTEDOTHERWISE
mm	MILLIMETER
TYP.	TYPICAL
FFL	FINISHED FLOOR LINE
EL.	ELEVATION
M	METER

PARTITION TYPES

- P1 — 300MM BRICK WALL UP TO FALSE CEILING HEIGHT.
- P2 — 300MMX300MMXGMM CERAMIC TILE
- P3 — GLASS WINDOW FOR PARTITION
- P4 — 250MM BRICK WALL UP TO FALSE CEILING HEIGHT.



LEGENDS AND SYMBOLS

- X — ROOM IDENTIFICATION
- X — DOOR TAGS
- X — WINDOW TAGS
- X — PARTITION TYPE
- FLOOR ELEVATION TAG

FINISHING SCHEDULE LEGEND

FLOOR	
F1	TERRAZZO TILE
F2	FLOOR TYPE CERAMIC TILE
WALL	
P1	PAINTED PLASTER
P2	CERAMIC TILE UP TO CEILING
CEILING	
C1	PAINTED PLASTER
C2	PVC SUSPENDED CEILING 60X60CM

BUILDING IDENTIFICATION / FINISHING SCHEDULE

NO	Usage	FLOOR	WALL	CEILING
S01	HALL	F1	P1&P4	C1
S02	KETCHEN STORGE	F1	P2	C1
S03	KETCHEN	F2	P2	C1
S04	ELECTRICAL ROOM	F1	P1	C1
S05	TOILETS	F2	P2	C2

01 SECOND FLOOR PLAN

A-102 REF. A-102 SCALE 1:100

Designed by: Sayed Karim Ahaqyan
Drawn by: Sayed Karim Ahaqyan
Checked by: Abdul Bari Karim
Approved by:

No | Submission Description | Date
For Tender | 4/20/2020

Contract No
Contract Date
Finish Date
Drawn Date
Paper Size
Plot Date
Scale

ARCHIVES HISTORICAL POST OFFICE
AL PROVINCE OF AFGHANISTAN

Sheet Reference Number

Directorate

GENERAL NOTES:

1. ALL DIMENSIONS INDICATED IN THE DRAWINGS ARE IN MM UNIT UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR WALLS TO BE PAINTED PLASTER.
4. ALL CEILINGS TO BE PAINTED PLASTER.
5. ALL METAL ROOFING SHALL BE ZINC COATED (GALVANIZED) AND HAVE A MINIMUM THICKNESS OF GAUGE 24.

ABBREVIATIONS

U.N.O.	UNLESS NOTEDOTHERWISE
mm	MILLIMETER
TYP.	TYPICAL
FFL	FINISHED FLOOR LINE
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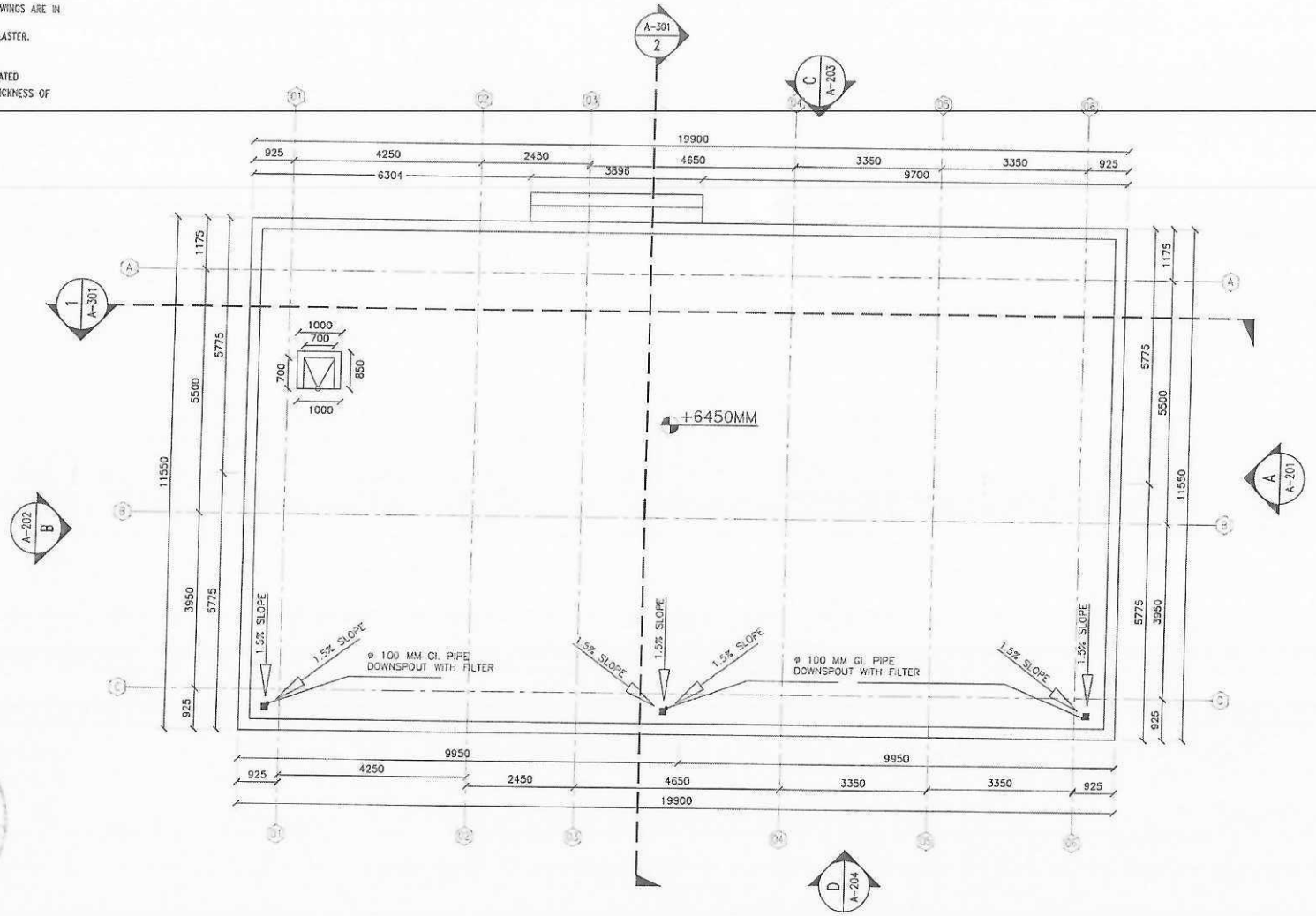


LEGENDS AND SYMBOLS

- ROOM IDENTIFICATION
- DOOR TAGS
- WINDOW TAGS
- PARTITION TYPE
- FLOOR ELEVATION TAG

01 ROOF PLAN

A-103 REF. SCALE: 1:100

Designed by: Sayed karim ahegyan
Drawn by: Sayed karim ahegyan
Checked by: Head of Department: Abdul Saboor Nangial
Approved by: Chief Commissioner: Mr. Ghulam Ghous Ahmad

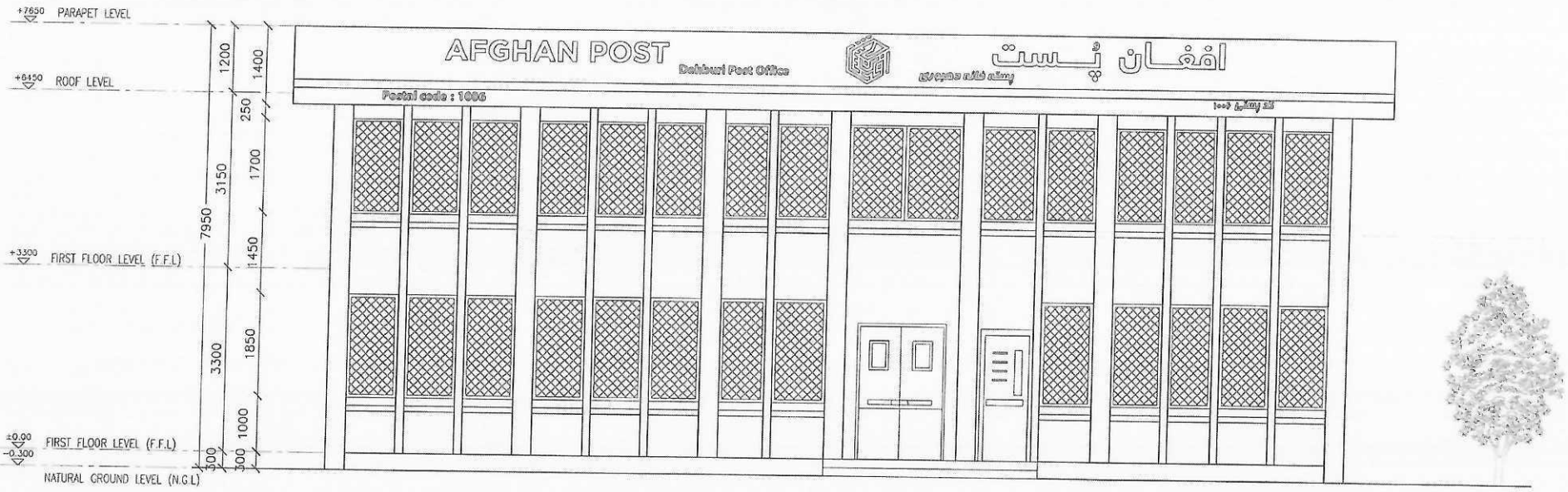
No. | Submission Description | Date
1 | For Tender | 14/03/2022

Contract No
Contract Date
Project Year: 1400/1444
Drawn Date: Jun'22
Paper Size: A3
Plot Date: 14/03/2022
Scale: 1:100

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE [illegible]
ROOF PLAN

Sheet Reference Number: A-103

Admin Directorate



01 ELEVATION-C

A-201 REF. A-101 SCALE 1:75

Designed by Sayed Karim Hotqyan

Drawn by Sayed Karim Hotqyan

Checked by

Approved by

No	Submission Description	Date
01	For Tender	

Contract No

Contract Date

Fiscal Year

Draw Date

Paper Size A2

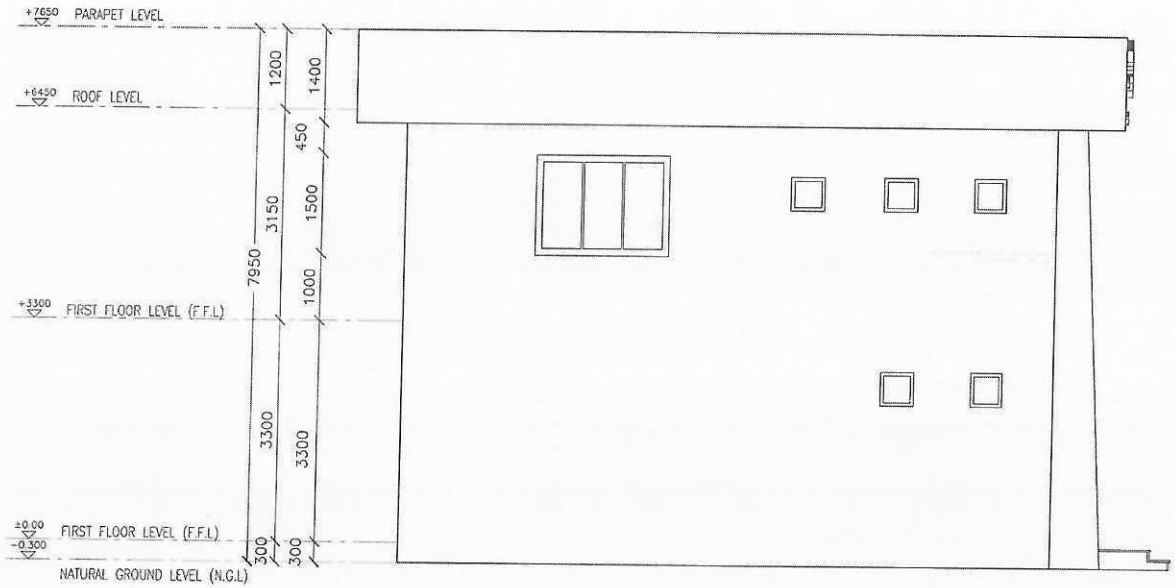
Plot Date

Scale

AFGHAN POST - POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
DEHBURI

Sheet Reference Number



02 ELEVATION-A

A-202 REF. A-101 SCALE 1:75

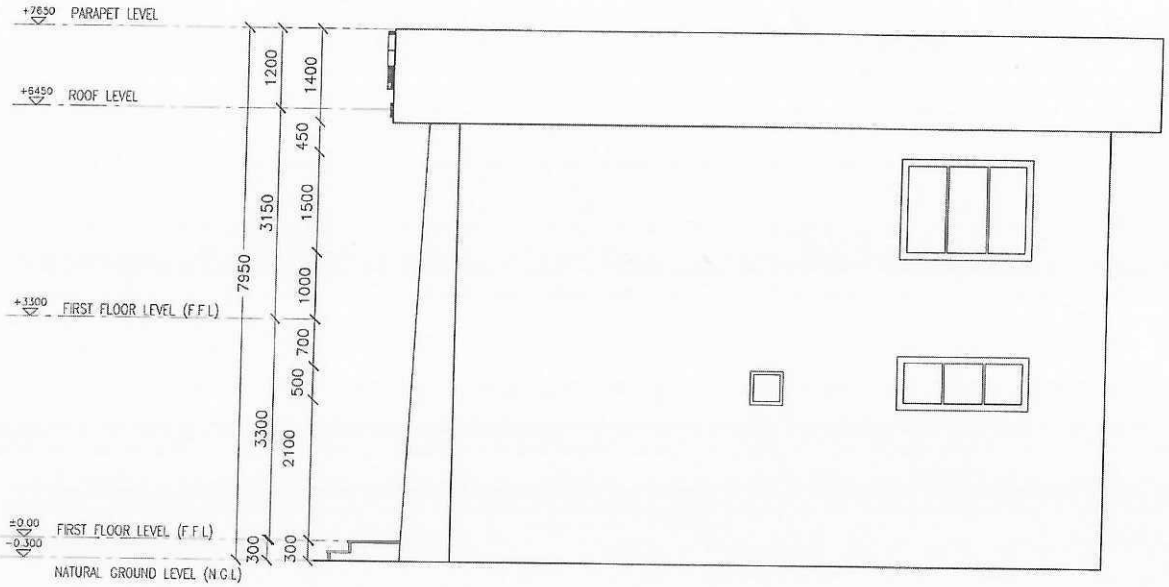
ریاست اداری
Admin Directorate

Designed by	Sayed karim khoyani	No	Submission Description	Date	Contract No
Drawn by	Sayed karim khoyani		For Tender	14/02/2012	Contract Date
Checked by Head of Department	Abdul Basit Karim				Fiscal Year 1390-1391
Approved by Vice Commander	Eng. Sayed Ahmad Shah Sadat				Drawn Color Jet HD
					Paper Size A0
					Plot Date 14/02/2012
					Scale 1:75

AFGHANISTAN NATIONAL ARMY OFFICE
ALL AFGHANISTAN

POST OFFICE BUILDING
SUKHATORKA

Sheet Reference Number
A-202



03 ELEVATION-B

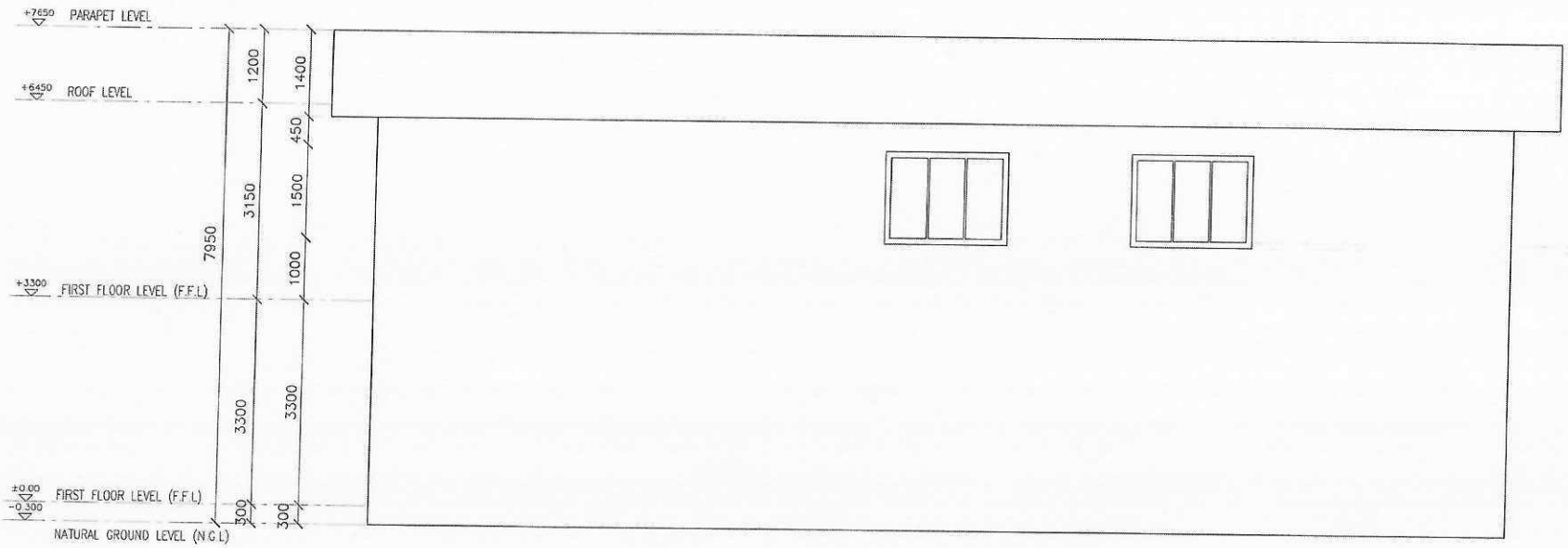
A-203 REF. A-101 SCALE: 1:100

ریاست اداری
Admin Directorate

Designed by: Sayed karim ehsaqyar
Drawn by: Sayed karim ehsaqyar

No	Submission Description	Date
	For Tender	1403/08/20

Contract No.
Contract Date
Paper Year: 1403/1444
Drawn Date: APR-NC
Paper Size: A2
Print Date: 1403/08/20
Sheet Reference Number



04 ELEVATION-D

A-204 REF A-101 SCALE: 1:75

Designed by: Sayed karim ehsgzai
Drawn by: Sayed karim ehsgzai
Checked by: Abdul Sabir Afghan
Approved by:

No	Submission Description	Date
01	For Tender	14/05/2020

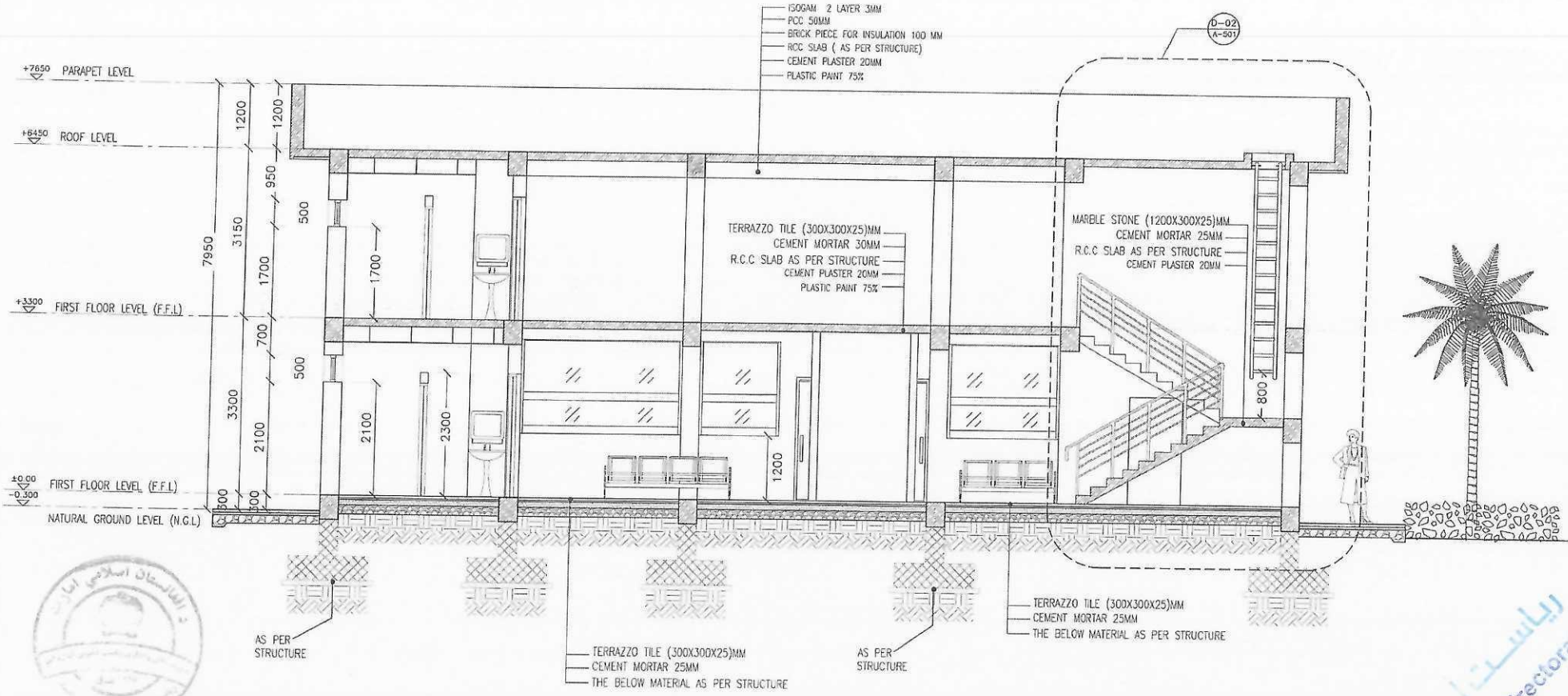
Contract No
Contract Date
Fiscal Year 1398-1399
Drawn Date
Paper Size A3
Plot Date
Scale

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
ELEVATION-D

DRAWING Reference Number
A-204

ریاست اجرائی
Admin Directorate



01 SECTION 1-1

A-301 REF A-101 SCALE 1:75

Designed by: Sayed karim khogyan

Drawn by: Sayed karim khogyan

Checked By

Approved by

No. | Submission Description | Date

For Tender | 1402/08/20

Contract No.

Contract Date

Fiscal Year 1402-404

Drawn Date

Plate No. 43

Plot Date

Rev.

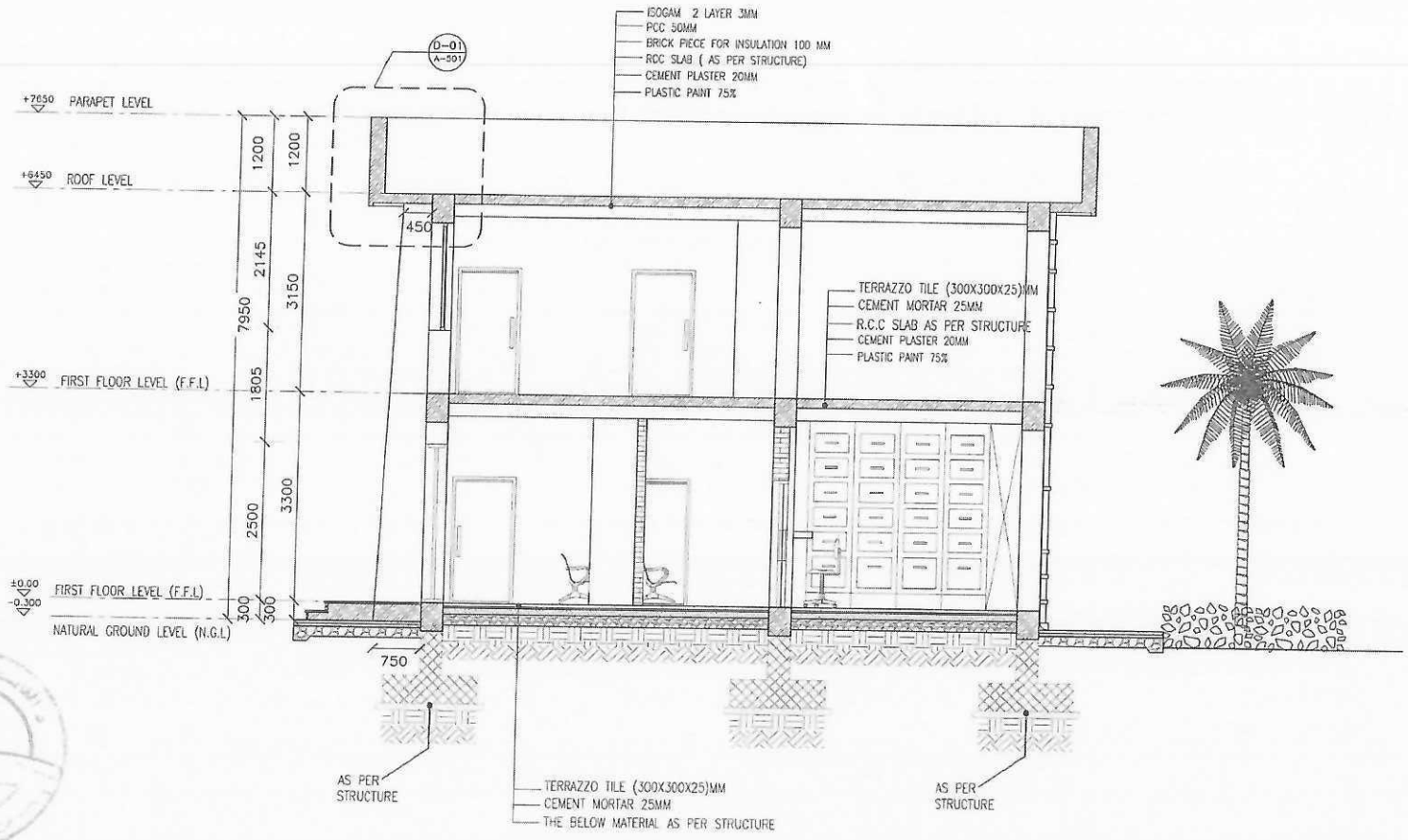
AFGHAN POST TYPICAL POST OFFICE

ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING

Sheet Reference Number

Administration Directorate



02 SECTION 2-2

A-302 REF A-101 SCALE: 1:75

Designed by: Sayad karim khogyani

Drawn by: Sayad karim khogyani

Submission Description: For Tender

Date: 14/09/2022

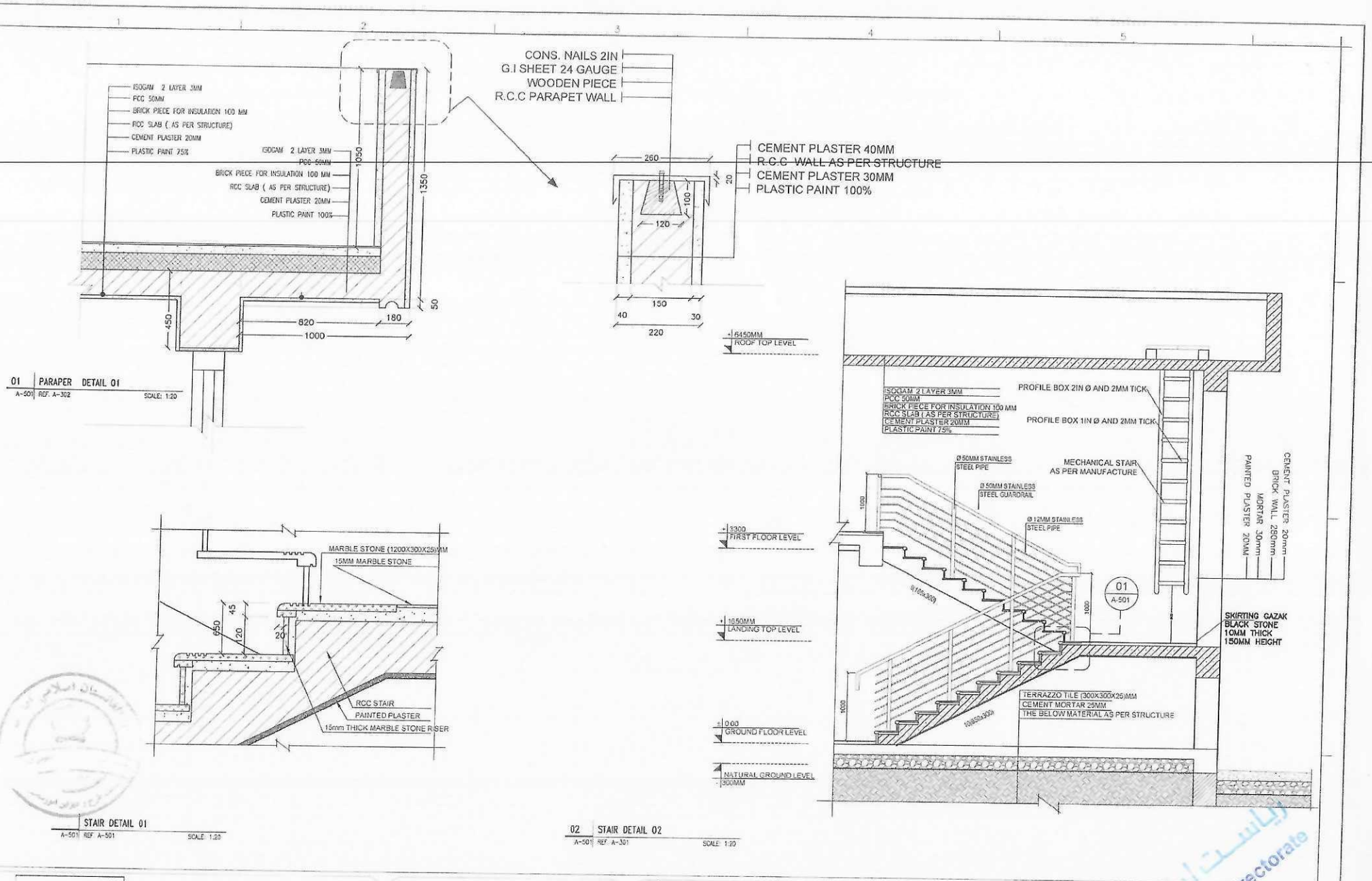
Contract No:

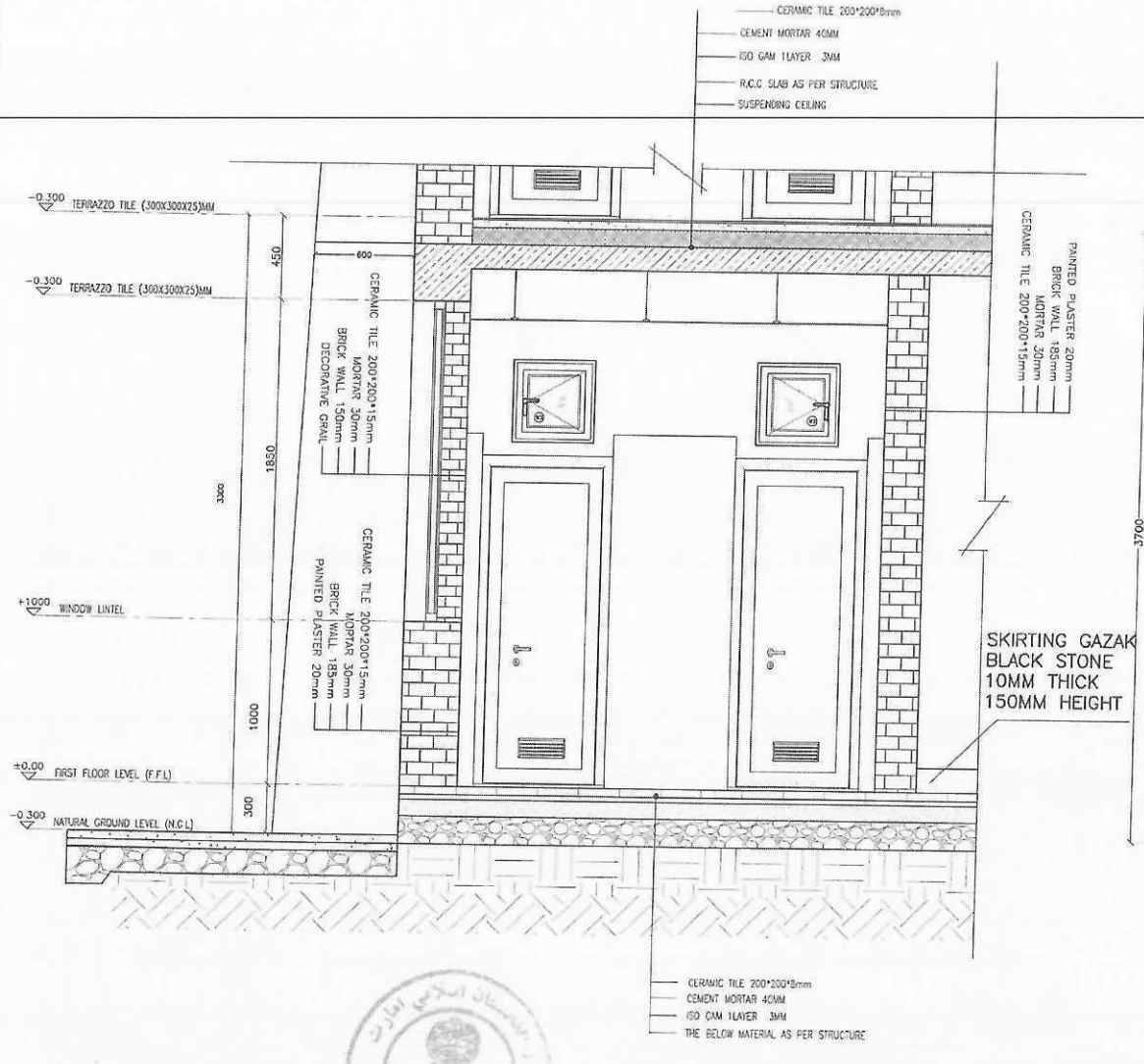
Contract Date:

Paper Size: A3

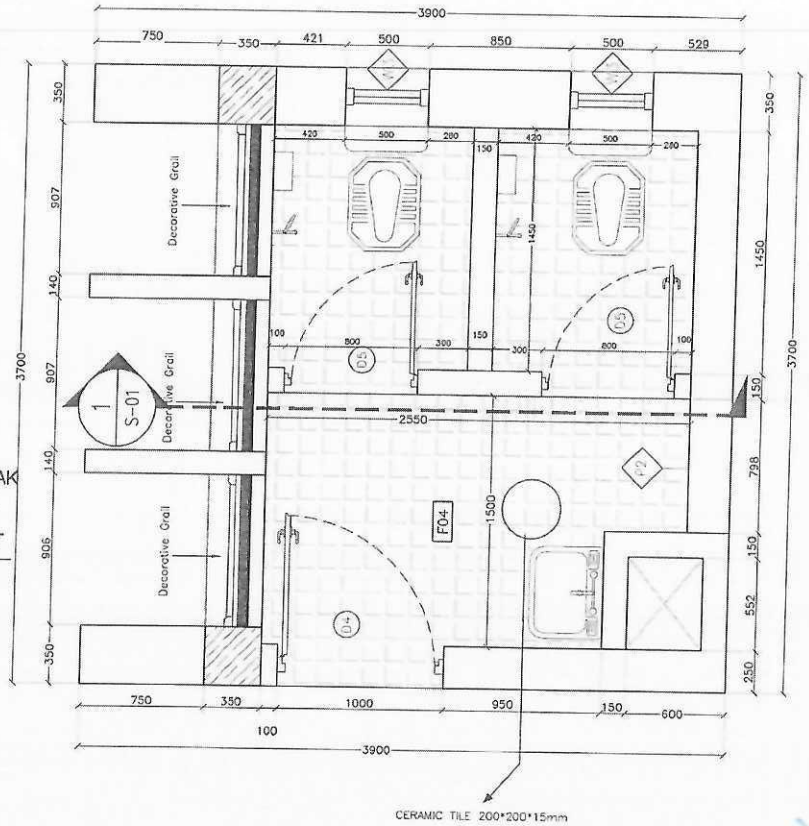
Sheet Reference Number: A-302

Administration Directorate


ISOGAM 2 LAYER 3MM
PCC 50MM
BRICK PIECE FOR INSULATION 100 MM
RCC SLAB (AS PER STRUCTURE)
CEMENT PLASTER 20MM
PLASTIC PAINT 75%
ISOGAM 2 LAYER 3MM
PCC 50MM
BRICK PIECE FOR INSULATION 100 MM
RCC SLAB (AS PER STRUCTURE)
CEMENT PLASTER 20MM
PLASTIC PAINT 100%
1050
1350
50
450
820
180
1000
CONS. NAILS 2IN
G.I SHEET 24 GAUGE
WOODEN PIECE
R.C.C PARAPET WALL
CEMENT PLASTER 40MM
R.C.C WALL AS PER STRUCTURE
CEMENT PLASTER 30MM
PLASTIC PAINT 100%
260
20
100
120
150
40
30
220
01 PARAPER DETAIL 01
A-501 REF. A-302 SCALE: 1:20
MARBLE STONE (1200X300X25)MM
15MM MARBLE STONE
650
45
120
20
RCC STAIR
PAINTED PLASTER
15mm THICK MARBLE STONE RISER
STAIR DETAIL 01
A-501 REF A-501 SCALE: 1:20
+6450MM
ROOF TOP LEVEL
ISOGAM 2 LAYER 3MM
PCC 50MM
BRICK PIECE FOR INSULATION 100 MM
RCC SLAB (AS PER STRUCTURE)
CEMENT PLASTER 20MM
PLASTIC PAINT 75%
PROFILE BOX 2IN Ø AND 2MM TICK
PROFILE BOX 1IN Ø AND 2MM TICK
Ø 50MM STAINLESS STEEL PIPE
Ø 50MM STAINLESS STEEL GUARDRAIL
MECHANICAL STAIR AS PER MANUFACTURE
Ø 12MM STAINLESS STEEL PIPE
PAINTED PLASTER 20MM
MORTAR 30mm
BRICK WALL 280mm
CEMENT PLASTER 20mm
+3300
FIRST FLOOR LEVEL
+1650MM
LANDING TOP LEVEL
±0.00
GROUND FLOOR LEVEL
NATURAL GROUND LEVEL
-300MM
1000
9/165x300
10/150x300
01
A-501
SKIRTING GAZAK BLACK STONE 10MM THICK 150MM HEIGHT
TERRAZZO TILE (300X300X25)MM
CEMENT MORTAR 25MM
THE BELOW MATERIAL AS PER STRUCTURE
02 STAIR DETAIL 02
A-501 REF A-301 SCALE: 1:20
Designed by
Sayed Karim Khoyani
Drawn by
Submission Description
Date
Contract No
Contract Date
Fiscal Year
Drawn Date
Paper Size
Plot Date
Scale
AFGHAN POST TYPICAL POST OFFICE
Sheet Reference Number
Admin Directorate

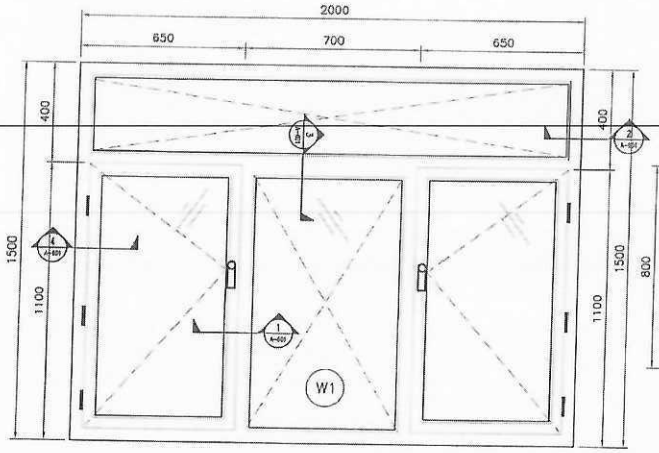


01 TOILET DETAIL SECTION 01
A-502 REF. A-101 SCALE 1:30

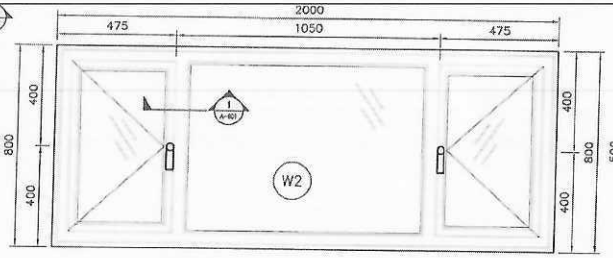


01 TOILET DETAIL PLAN 01
A-502 REF. A-101 SCALE 1:30

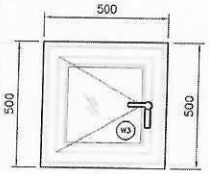
Designed by: Sayed karim khoyan
Drawn by: Sayed karim khoyan
Submission Description: For Tender
Date: 4/2/2020
Contract No
Contract Date
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
Drawing Reference Number



01 WINDOW (W1)
REF. A-101 SCALE: 1:20



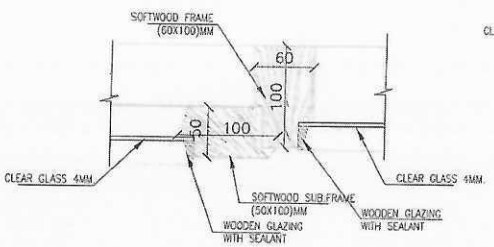
02 WINDOW (W2)
REF. A-101 SCALE: 1:20



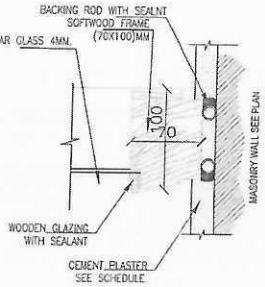
03 WINDOW (W3)
REF. A-101 SCALE: 1:20

WINDOW SCHEDULE

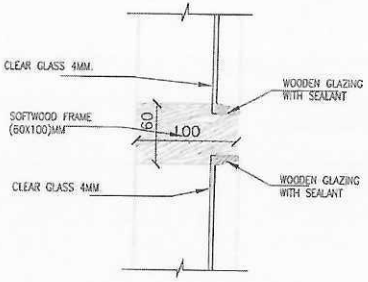
NO.	STRUCTURAL OPINING WIDE	STRUCTURAL OPINING HEIGHT	OPINING SYSTEM	MATERIAL	QUANTITY
W1	2000	1500	HINGE	ARCHA WOOD FRAME AND PANELS WITH 4MM DOUBLE GLASS WITH AIR SPACE BETWEEN	4
W2	2000	800	HINGE	ARCHA WOOD FRAME AND PANELS WITH 4MM DOUBLE GLASS WITH AIR SPACE BETWEEN	1
W3	500	500	HINGE	ARCHA WOOD FRAME AND PANELS WITH 4MM DOUBLE GLASS WITH AIR SPACE BETWEEN	6



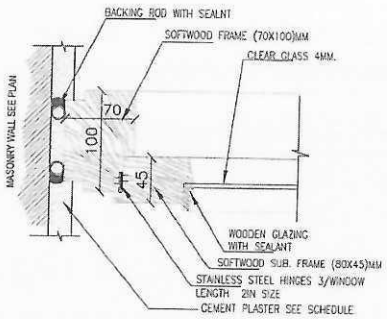
01 TRANSOM DETAIL-01
REF. A-601 SCALE: 1:5



02 LEFT JAMB DETAIL-02
REF. A-601 SCALE: 1:5



03 (MILLION DETAIL-03)
REF. A-601 SCALE: 1:5



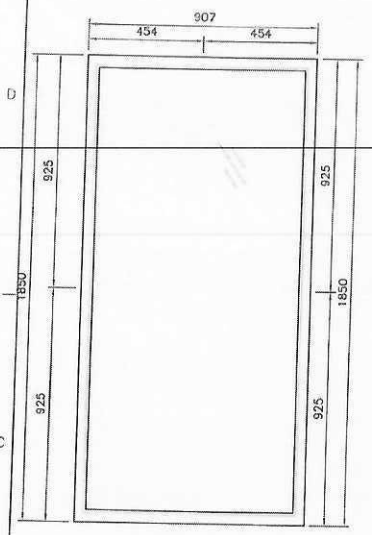
04 RIGHT DETAIL-02
REF. SCALE: 1:5

Designed by: Sayed karim khoyam
Drawn by: Sayed karim khoyam
Checked By: Abdul Sabir Rahimi
Submission Description: For Tender
Date: 14200905
Contract No:
Contract Date:
Fiscal Year: 1420/1441
Drawn Date: JAN'20
Paper Size: A1
Scale: AS SHOWN

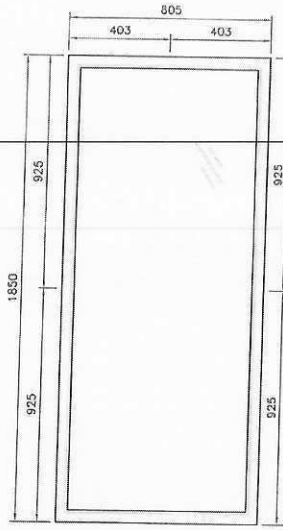
WINDOW ELEVATION, SCHEDULE

Sheet Reference Number: A-601

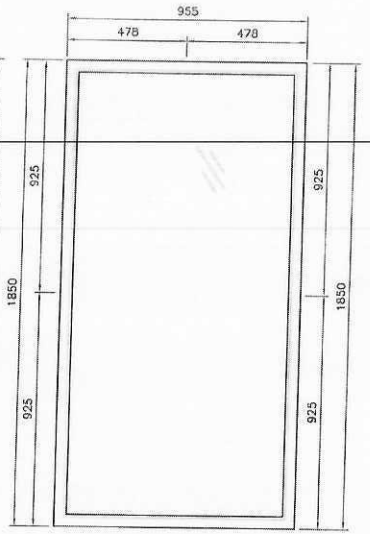
Admin Directorate



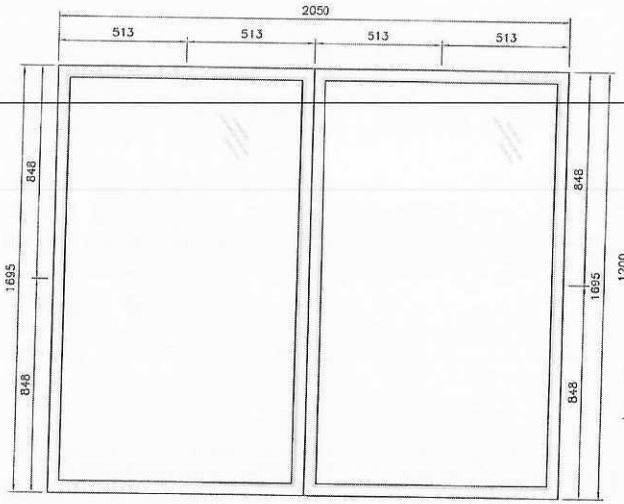
04 WINDOW (W4)
REF. A-101 SCALE: 1:20



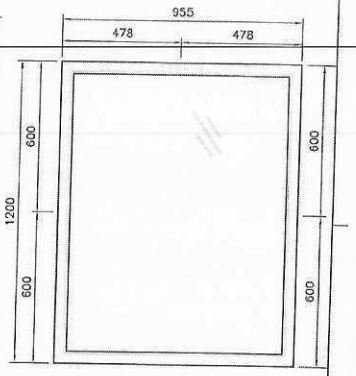
05 WINDOW (W5)
REF. A-101 SCALE: 1:20



06 WINDOW (W6)
REF. A-101 SCALE: 1:20



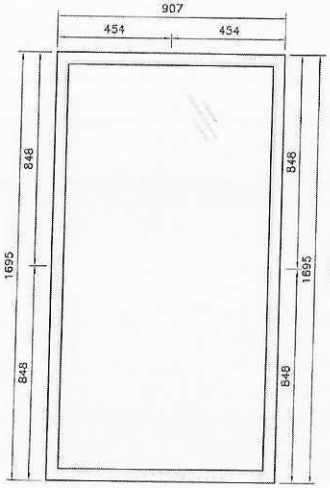
07 WINDOW (W7)
REF. A-102 SCALE: 1:20



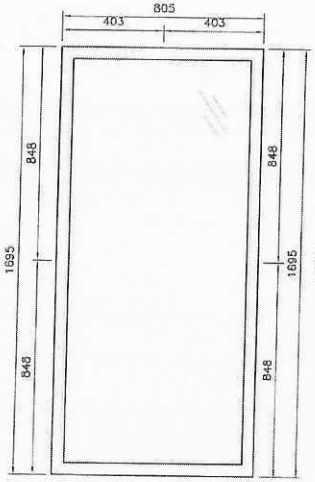
08 WINDOW (W8)
REF. A-102 SCALE: 1:20

WINDOW SCHEDULE

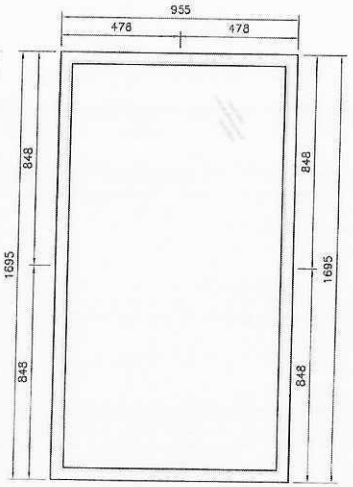
NO.	STRUCTURAL OPINING WIDE	STRUCTURAL OPINING HEIGHT	OPINING SYSTEM	MATERIAL	QUANTITY
W4	907	1850	FIXED	ARCHA WOOD FRAME AND PANELS WITH 4MM DOUBLE GLASS WITH AIR SPACE BETWEEN	4
W5	805	1500	FIXED		1
W6	955	1500	FIXED		2
W7	2050	1695	FIXED		1
W8	907	1200	FIXED		1
W9	907	1695	FIXED		4
W10	805	1695	FIXED		1
W11	955	1695	FIXED		2



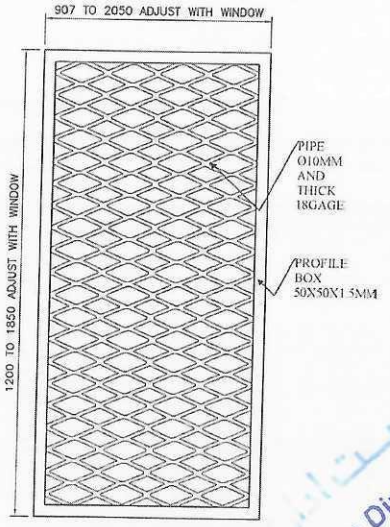
09 WINDOW (W9)
REF. A-102 SCALE: 1:20



10 WINDOW (W10)
REF. A-102 SCALE: 1:20



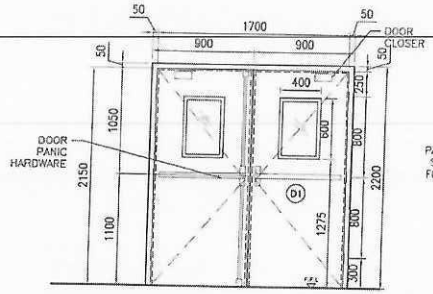
11 WINDOW (W11)
REF. A-102 SCALE: 1:20



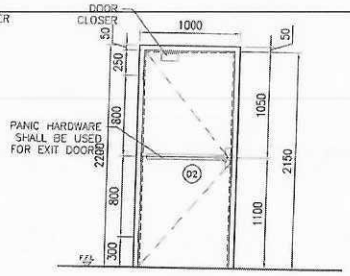
11 DECORARIVE GRAIL FOR EXTERIOR ELEVATION
REF. A-101 & A-102 SCALE: 1:20

Designed by	Sayed karim khoggani	Submission Description	Date	Contract No	AFGHAN POST TYPICAL POST OFFICE
Drawn by	Sayed karim khoggani	For Tender		Contract Date	ALL PROVINCE OF AFGHANISTAN
Checked by Head of Department	Abdul Nasir Nasiri			Issue Year	POST OFFICE BUILDING
Approved by Vice Commander				Drawn Color	WINDOW ELEVATION SCHEDULE
				Paper Size	A3
				Full Date	AS SHOWN

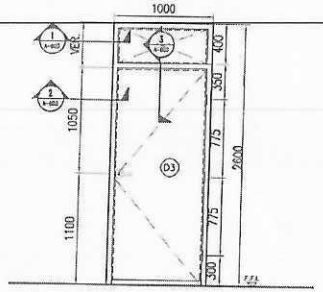
Shop Reference Number: A 602



01 DOOR (D1)
REF. A-101 SCALE: 1:50



02 DOOR (D2)
REF. A-101 SCALE: 1:50



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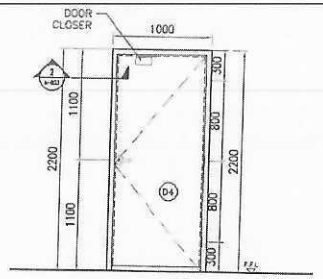
REF. A-101 SCALE: 1:50



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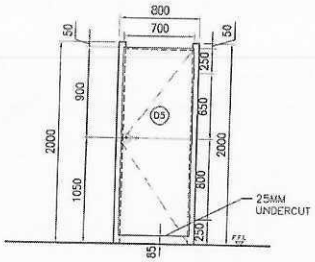
REF. A-101 SCALE: 1:50



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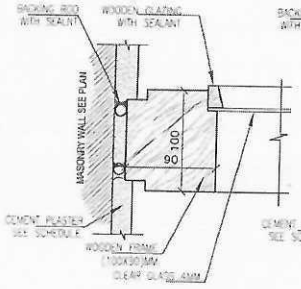
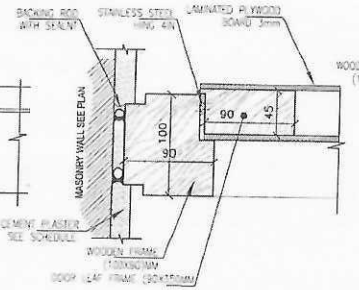
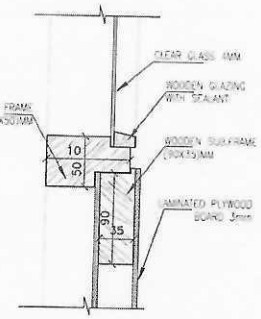
REF. A-101 SCALE: 1:50



01 DOOR JAMB DETAIL-01
REF. A-603 SCALE: 1:20



02 DOOR LEAF DETILE-02
REF. A-603 SCALE: 1:20



03 DOOR LEAF DETILE-03
REF. A-603 SCALE: 1:20

DOOR SCHEDULE AND SPECIFICATIONS

No.	STRUCTURE OPENING WIDTH	STRUCTURE OPENING HEIGHT	OPENING SYSTEM	FRAME HARDWARE	MATERIAL	FIRE RATING MIN	QUANTITY
D1	1600	2200	HINGED	FIXED TO WALL WOOD BLOCK	- METAL DOOR AND METAL FRAME - 4MM ORDINARY DOUBLE GLASS VISION WINDOW - LOCK SETS WITH KEY FROM OUT SIDE AND PUSH PAR PANIC HARDWARE FROM INSIDE - DOOR CLOSER		1
D2	1000	2200	HINGED	FIXED TO WALL WOOD BLOCK	- METAL DOOR AND METAL FRAME - LOCK SETS WITH KEY FROM OUT SIDE AND PUSH PAR PANIC HARDWARE FROM INSIDE - DOOR CLOSER		3
D3	1000	2600	HINGED	FIXED TO WALL WOOD BLOCK	- WOODEN FLUSH DOOR AND WOODEN FRAME -MORTISE LOCK WITH KAY SYSTEM FORM BOTH SIDES -DOOR CLOSER – 4IN HINGES		3
D4	1000	2200	HINGED	FIXED TO WALL WOOD BLOCK	- WOODEN FLUSH DOOR AND WOODEN FRAME -MORTISE LOCK WITH KAY SYSTEM FORM BOTH SIDES -DOOR CLOSER- 4IN HINGES		6
D5	800	2000	HINGED	PVC DOOR AND FRAME	- PVC DOOR (70MM) AND PVC FRAME (70MM) - BORED LOCK SETS WITH KEY FROM OUTSIDE AND THUMB LUCK INSIDE		5

Designed by: Sayed Hakim Hosyani
Drawn by: Sayed Hakim Hosyani
Checked By: Head of Department
Approved by: Chief Operation Officer

No | Submission Description | Date
For Tender

Contract No
Contract Date
Paper Size: A3

ARGHAN PROVINCIAL PROJECT OFFICE
ALL PROVINCE OF AFGHANISTAN

Sheet Reference Number: A-001

Kabul Municipality Directorate

01	3D
A-901	REF

SCALE: 1:75

Geography

Sayed karim shojyan

Sayed karim shojyan

No.

Submission Description

For Tender

Date

1400/08/21

Contract No

Contract Date

Fiscal Year 1400-1404

Date / Code

Page Size A3

File Date

Size

AFGHAN POST TYPICAL POST OFFICE

ALL PROVINCES

Sheet Reference Number

ریاست انجینیری
Engineering Directorate

امارت اسلامی افغانستان

معاونیت مالی و اداری

ریاست طرح و دیزاین امور ساختمانی

د افغانستان اسلامی امارت

نقشه های ستر کچر

اعمار پسته خانه های تیپیک شرکت دولتی افغان پست افغانستان

ریاست امنیت Admin Directorate

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		STRUCTURAL	
		POST OFFICE BUILDING	
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	S-002	GENERAL NOTES	NTS
	S-003	22MM BRICK WORK DETAILS	NTS
	S-004	105MM BRICK WORK DETAILS	NTS
	S-005	330MM BRICK WORK DETAILS	NTS
	S-101	FOUNDATION PLAN LAYOUT	AS SHOWN
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STRUCTURAL ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ADDL	ADDITIONAL
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPAOXIMATLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ARCH	ARCHITECTURAL
B	BOTTOM BAR
BLDG	BUILDING
BOTT	BOTTOM
℄	CENTER LINE
C/C	CENTER TO CENTER
CFMRF	COLD FORM METAL ROOF FRAME
CFMF	COLD FORM METAL FRAME
CFS	COLD FORMED STEEL
CIP	CAST-IN-PLACE
CIPL	CAST-IN-PLACE LINTEL
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COEFF	COEFFICIENT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONN	CONNECTION
COORD	COORDINATE
CSJ	CONSTRUCTION JOINT
CTJ	CONTROL JOINT
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMBED	EMBEDMENT
EQUIV	EQUIVALENT
ETC	ET CETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
F.G.L	FINISH GRADE LEVEL
FTG	FOOTING
GA	GAUGE
HORIZ	HORIZONTAL
HRS	HOURS
IBC	INTERNATIONAL BUILDING CODE
INFO	INFORMATION
INT	INTERIOR
INV	INVERT
JT	JIONT
Kg	KILOGRAM
Km	KILOMETER
kPa	KILOPASCAL
L#	ANGLE (# INDICATES SIZE)
LONG	LONGITUDINAL
LLV	LONG LEG VERTICAL
M	METER
MAX	MAXIMUM
MBM	METAL BUILDING MANUFACTURER
MECH	MECHANICAL
MFG	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MPa	MEGAPASCAL
MTL	METAL
MWFRS	MAIN WIND FORCE RESISTING SYSTEM
N	NEWTON
N	NORTH
N/A	NOT APPLICABLE
Ø	SYMBOL FOR REBAR SIZE
NTS	NOT TO SCALE
O.C	ON CENTER
OPNG	OPENING
℞	or PL PLATE
P.C	PLAIN CONCRETE
PL	PLATE
P.L	PARAPET LEVEVL
PRE-ENG	PRE-ENGINEERED
RB	RING BEAM
REINF	REINFORCED
REQ'D	REQUIRED
SIM	SIMILAR
SPECS	SPECIFICATIONS
STD	STANDARD
STRUCT	STRUCTURAL
SW	SHEAR WALL
S.O.G	SLAB ON GRADE
T	TOP BAR
T/	TOP OF
T/ELEV	TOP ELEVATION
T&B	TOP AND BOTTOM
THK	THICK
TYP	TYPICAL
UFC	UNIFIED FACILITIES CRITERIA
UNO	UNLESS OTHERWISE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W	WIDTH
W/	WITH

STRUCTURAL DESIGN CRITERIA

1- DESIGN AND CONSTRUCTION ARE IN ACCORDANCE WITH:
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. ACI 318M-19
BUILDING CODE: IBC-2012
DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES: ASCE-7, 2016
STEEL CONSTRUCTION MANUAL, AISC 360-16
POST TENSION MANUAL, PTI, 2006
AFGHANISTAN BUILDING CODE 2012

2- UNLESS NOTED OTHERWISE, STRUCTURAL MEMBERS ARE DESIGNED TO RESIST THE FOLLOWING LOADS:

a) SUPERIMPOSED LOAD:

- DEAD LOADS

FINISHES (FOR RAISED FLOOR)	2.00 KN/m2	(TO BE CONFIRMED BY CALCULATION)
FINISHES (FOR MAX. 10 Cm FLOOR FINISH)	2.00 KN/m2	
FINISHES (FOR MAX. 20 Cm FLOOR FINISH)	4.00 KN/m2	
SERVICES	0.50 KN/m2	
PARTITION (FOR OFFICES AREAS)	2.00 KN/m2	
PARTITION (FOR WET AREAS)	4.00 KN/m2	(TO BE CONFIRMED BY CALCULATION)
ROOF (WATERPROOFING + SCREED)	5.00 KN/m2	

- LIVE LOADS

OFFICES	2.50 KN/m2	
PUBLIC ASSEMBLY AREAS	5.00 KN/m2	
PRAYER HALLS	5.00 KN/m2	
PARKING	3.00 KN/m2	
RAMPS	5.00 KN/m2	
STAIRS &1ST FLOOR CORRIDORS	5.00 KN/m2	
LIGHT STORAGE	6.00 KN/m2	
OPERATING ROOMS, LABORATORIES	3.00 KN/m2	
CORRIDORS ABOVE FIR&T FLOOR	4.00 KN/m2	
MECHANICAL ROOMS	7.50 KN/m2	(TO BE CONFIRMED FROM MECH.)
LANDSCAPING	(SOIL DEPTH X 22 KN/m2)	
ELECTRICAL ROOMS	TO BE PROVIDED BY ELEC.	

b) ENVIRONMENTAL LOADS

- WIND LOADS

WIND PRESSURE LOADS CALCULATED AS PER ASCE-7-2010 - IBC 2012 & AFGHANISTAN CODE 2012 WITH FOLLOWING PARAMETERS:

BASIC WIND SPEED (3 SEC. GUST)& (MRI=50 YEARS) ---------- 41m/s

WIND SPEED 3 SECOND GUST (MRI=1700 YEAR) ---------- 53m/s

IMPORTANCE FACTOR=1.0

BUILDING AND STRUCTURAL CLASSIFICATION CATEGORY --------

EXPOSURE CATEGORY ----------

TOPOGRAPHIC FACTOR KZT ----------

- SEISMIC LOADS

EARTHQUAKE DESIGN DATA PER ASCE-7-2010, IBC 2012 & AFGHANISTAN CODE 2012 WITH FOLLOWING PARAMETERS:

OCCUPANCY CATEGORY ---------- III
SEISMIC IMPORTANCE FACTOR ---------- 1.25
SITE CLASS ---------- D
MAPPED SPECTRAL RESPONSE ACCELERATION ---------- Ss=1.13
MAPPED SPECTRAL RESPONSE ACCELERATION ---------- S1=0.53
SPECTRAL RESPONSE COEFFICIENT ---------- SDS=0.79
SPECTRAL RESPONSE COEFFICIENT ---------- SD1=0.62
SEISMIC DESIGN CATEGORY ---------- D
RESPONSE MODIFICATION FACTOR ---------- R=8
BASIC SEISMIC RESISTING SYSTEM IS SPECIAL REINFORCED CONCRETE FRAMES
ANALYSIS PROCEDURE: DYNAMIC ANALYSIS

- THERMAL LOADS

THERMAL LOAD

DESIGN TEMPERATURE CHANGE ---------- ±30°C

REDUCE MODULUS OF CONCRETE ELASTICITY (SHRINKAGE ONLY) = 0.5

A-GENERAL NOTES

1-THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE SHEETS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.

2-COORDINATE THESE SHEETS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL SHEETS. ALL DIMENSIONS SHOWN ON THE SHEETS ARE MILLIMETERS UNLESS NOTED OTHERWISE.

3-THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETC WITH EQUIPMENT SELECTED. THE CONTRACTOR SHALL MAKE ANY REQUIRED MODIFICATIONS AT NO ADDITIONAL COST.

4-THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING SHEETS FOR SLEEVES, CURBS, INSERTS OR OPENINGS. ETC. NOT HEREIN INDICATED.

5-SLAB OPENINGS SMALLER THAN 250mm DIA TO BE CORE DRILLED IN FIELD UON. SEE MECHANICAL, ELECTRICAL AND PLUMBING SHEETS FOR LOCATIONS OF THESE OPENINGS.

6-WORK NOT INCLUDED ON THE SHEETS BUT IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES ELSEWHERE ON THE SHEETS SHALL BE REPEATED.

7-IN CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS THE MOST RIGID REQUIREMENTS SHALL GOVERN.

8-SEE ARCHITECTURAL SHEETS FOR LOCATIONS OF BRICK WALLS AND DRYWALL NON-LOAD BEARING PARTITIONS.

9-COORDINATE FINISHED FLOOR DATUM ELEVATION 0.0m WITH THE CIVIL SHEETS.

B-FOUNDATION NOTES :

1-FOUNDATION DESIGN IS BASED ON ASSUMED SOIL BEARING CAPACITY OF (100) kPa & MODULUS OF SUBGRADE Ks =(1.2) Kg/cm3

2-CONTRACTOR TO ENSURE APPROPRIATE SITE DRAINAGE IN ORDER TO MINIMIZE WATER INGRESS IN THE SUBSURFACE.

3-THE CONTRACTOR SHALL ENSURE, AND AT HIS OWN COST, THAT THE EXCAVATION WORKS FOR FOUNDATIONS AND GENERAL SITE GRADING ARE DONE USING SAFE SLOPES OR USING AN APPROPRIATE SUPPORT SYSTEM.

4-IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE SOIL AND ROCK CONDITIONS ON SITE DURING CONSTRUCTION AND TO ASCERTAIN THAT THE SOIL AT THE FOUNDATION LEVEL HAS AN ALLOWABLE BEARING CAPACITY OF NOT LESS THAN THE ASSUMED BEARING CAPACITY VALUE ABOVE AND TO CONSULT WITH THE ENGINEER IF OTHERWISE.

5-THE SOIL AT THE FOUNDATION LEVELS SHALL BE FREE OF DEBRIS, FILL MATERIAL , SOFT AND LOOSE SOIL POCKETS AND SHALL BE PROPERLY PREPARED AS PER THE PROJECT SPECIFICATIONS.

6-ALL BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY UNLESS OTHERWISE STATED ON THE DRAWINGS.

7-THE CONTRACTOR SHALL NOT BACKFILL AGAINST WALL TO BE LATERALLY SUPPORTED BY A FLOOR SLAB UNLESS SUPPORT IS PROVIDED OR SLABS HAVE BEEN PLACED BACKFILL AGAINST CANTILEVER WALLS SHALL NOT BE PLACED UNTIL THE CONCRETE HAS GAINED ITS 28 DAY STRENGTH.

8-IF THE SOIL AT THE BOTTOM OF EXCAVATIONS ARE UNSUITABLE TO SUPPORT THE STRUCTURE, IT SHALL BE REMOVED TO AN ADEQUATE STRATUM AS DIRECTED BY THE ENGINEER AND REPLACED WITH MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS.

9-THE CONTRACTOR SHOULD REPORT TO THE ENGINEER WHEN GROUND WATER TABLE IS ENCOUNTERED FOR REVIEW AND REDESIGN.

10-THE CONTRACTOR TO CONFIRM THAT THE MATERIAL AT LEVEL OF FOOTING WILL MAINLY BE CONSISTING OF VERY DENSE SILTY SAND WITH GRAVEL. IF DURING EXCAVATION SUCH MATERIAL IS NOT ENCOUNTERED. CONTRACTOR SHALL INFORM THE ENGINEER IN ORDER TO REVIEW THE FOUNDATION DESIGN.

C-REINFORCED CONCRETE

1-ALL CONCRETE SHALL BE NORMAL WEIGHT (N.W) AND SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH AS DESCRIBED IN DETAILS OF COLUMNS, WALL, BEAMS, SLABS AND FOUNDATION

2-NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

3-MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301M-05

4-ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318M MANUAL (metric), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND REQUIREMENTS OUTLINED IN THE CONTRACT SPECIFICATIONS. WHEN THERE IS A CONFLICT BETWEEN ACI AND THE SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.

5-CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 20mm x45 DEGREE CHAMFER UON.

6-CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615M-96a, GRADE 420 MPa. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS. ALL LAP SPLICES SHALL BE CLASS "B" UON.

7-HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED WITH A CLASS B TENSION SPLICE AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 300mm OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.

8-SLABS-ON-GRADE SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS CAN BE USED AT CONTROL JOINT LOCATIONS AT CONTRACTORS OPTION. SEE SLAB PLANS & JOINT DETAILS FOR ADDITIONAL INFORMATION. FOR AREAS NOT SHOWN ON DWGS, THE MAXIMUM SPACING OF CONSTRUCTION/ CRACK CONTROL JOINTS SHALL BE 3000mmX3000mm.

9-SEE SPECIFICATIONS FOR ALL WATERPROOFING/DAMPPROOFING REQUIREMENT.

10-ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318M, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315M, LATEST EDITION.

11-ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE ON THE SHEETS.

12-ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN ON THE SHEETS.

13-SEE ARCHITECTURAL SHEETS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES.

14-THE CONTRACTOR SHALL COORDINATE ADDITIONAL WALL/SLAB OPENINGS NOT SHOWN ON STRUCTURAL SHEETS. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL SHEETS.

15-UNLESS NOTED OTHERWISE, ALL CURBS SHALL BE REINFORCED WITH AT LEAST (1)-#12 CONTINUOUS AND #12 AT 300mm O.C. DOWELS TO STRUCTURE BELOW.

16-THE SUB-CONTRACTOR SHALL VERIFY ALL OPENINGS, PAD SIZES, AND ANCHOR BOLTS WITH EQUIPMENT SELECTED.

17-ALL REINFORCING INDICATED TO BE WELDED SHALL BE IN ACCORDANCE WITH ASTM A706M. "LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT". ANY INSTALLATIONS USING MANUFACTURER'S EQUIPMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

18-PROVIDE CONCRETE POUR STOPS OR FORMED AS REQUIRED FOR INSTALLATION OF ALL CONCRETE WORK.

19-REQUIREMENT FOR COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.1-90 BASED ON ACI 318-08 SECTION 5.12

20-REQUIREMENT FOR HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305R-99 BASED ON ACI 318-08 SECTION 5.12

21-MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS LISTED BELOW: (SEE ACI 318-08, SECTION 7.7 FOR CONDITIONS NOT NOTED). DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS ARE IN mm. PROVIDE STANDARD BAR CHAIRS AND SUPPORT BARS @1200mm MAXIMUM AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

FOOTINGS (EARTH FORMED)		70
COLUMNS / PIERS (TO TIES)		40
GRADE BEAMS OR SLAB TURNED DOWN EDGES.		
TOP		40
BOTTOM (EARTH FORMED)		70
SIDES (EARTH FORMED)		70
SIDES (BOARD FORMED)	N16 BAR & SMALLER	40
	N18 TO N36 BAR	50
ELEVATED BEAMS & SLABS		
BEAM TIES & STIRRUPS (NOT EXPOSED TO WEATHER)		40
BEAM TIES & STIRRUPS (EXPOSED TO WEATHER)		50
FLOOR SLABS (NOT EXPOSED TO WEATHER)		20
FLOOR SLABS (EXPOSED TO WEATHER)		
N18 & LARGER		50
N12 & SMALLER		40
ROOF SLAB BARS		25
SLABS ON GRADE		
NOT EXPOSED TO WEATHER (FROM TOP)		20
EXPOSED TO WEATHER (FROM TOP)		40
UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS (NO SURFACES SHALL BE EARTH FORMED)		
EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER)		40
N18 BAR AND SMALLER		

Designed by: Rahman Murad
Drawn by: Rahman Murad
Checked by: Head of Department
Approved by: Vice Chairman
No. Submission Description: 01 For Tender
Date: 14/02/2020
Contract No:
Contract Date:
Paper Year: 1400-1401
Drawn Date: 4/7/20
Paper Size: A3
Plot Date: 4/2/2020
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
Sheet Reference Number

D-DAMP PROOFING AND WATERPROOFING

1-ALL EXTERIOR SURFACES OF SUBSTRUCTURAL CONCRETE SHALL BE PROTECTED BY A DAMP PROOFING COATS REFER TO SPECIFICATIONS.
2-AN INTEGRAL WATERPROOFING ADMIXTURE SHALL BE ADDED TO THE CONCRETE OF THE WATER TANK FLOORS, WALLS AND COLUMNS
a- SIKA 1 AS MANUFACTURED BY SIKA, LTD, OR
b- R.I.W. CEMENT WATERPROOFING POWDER AS MANUFACTURED BY R.I.W. PROTECTIVE PRODUCTS, LTD, OR
c- AN APPROVED EQUIVALENT.
3-WATER STOPS MUST BE FIXED IN ALL CONSTRUCTION JOINTS IN WATER RETAINING & STRUCTURES WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS REGARDING THE INSTALLATION OF WATER BARS PRIOR TO COMMENCEMENT OF CONCRETING WORKS FOR ENGINEER'S APPROVAL.
4-USE PREFABRICATED ANGLE AND INTERSECTION PIECES FOR PVC WATER-STOP.
5-WATER STOPS SHALL BE SPLICED AND WELDED IN ORDER TO INSURE A CONTINUOUS WATER BARRIER.
6-AN APPROVED POLYTHENE SHEET 1000 GAUGE VAPOUR BARRIER SHALL BE LAID UNDER ALL SLABS ON GRADES.

E-STEEL:

1-STEEL SHAPES AND STEEL PLATES SHALL CONFORM TO ASTM A572M GR 345, DESIGNED TO AISC 360-16 AND AISC GUIDES UNLESS NOTED OTHERWISE.
2-SPLICE CONNECTIONS ARE STANDARD AS PER AISC. 360-16 STEEL CONSTRUCTION MANUAL.
3-WHERE GROUTED SLEEVES TO FOUNDATION BOLTS ARE USED NO RELIANCE SHOULD BE PLACED ON THE GROUT TO RESIST HORIZONTAL SHEAR. THE CONTRACTORS DESIGN SHOULD ENSURE SUCH HORIZONTAL FORCES CAN BE TRANSMITTED BY EITHER BASE FRICTION OR DIRECTLY BY SETTING THE BASE PLATE INTO A SHALLOW POCKET, OR IN THE CASE OF HIGH SHEAR FORCES BY THE PROVISION OF A SHEAR KEY FIXED TO THE UNDERSIDE OF THE BASE PLATE.
4-GROUT UNDER BASE PLATES IS TO BE NON-SHRINK AND HAVE A MINIMUM CHARACTERISTIC STRENGTH AT 28 DAYS OF 60 MPA.
5-SHEAR STUDS SHALL BE 25mm Ø, 100mm LONG HEADED STUDS UNLESS NOTED OTHERWISE AND SHALL CONFIRM TO ASTM A108 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 450 MPA. THE CONTRACTOR SHALL CARRY OUT PROCEDURE TRIALS OF STUD WELDING.
6- WELDS SHALL BE MADE USING E70XX LOW HYDROGEN ELECTRODES U.N.O. SITE WELDING SHALL ONLY BE CARRIED OUT WITH THE PRIOR WRITTEN CONSENT OF THE ENGINEER AND AFTER SUBMISSION AND ACCEPTANCE OF FABRICATORS WELDING PROCEDURE. WELD TESTS INSPECTIONS PER AISC AND AWS D1.1.
7- WELDING PROCEDURE AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1-2010 STRUCTURAL STEEL WELDING CODE.
8- NO CUTTING OR REMOVAL OF PLACED STEELWORK OR CONCRETE IS PERMITTED WITHOUT PRIOR ACCEPTANCE BY THE ENGINEER.
9- FIRE PROTECTION TO STEELWORK IS GENERALLY PROVIDED BY CONCRETE ENCASEMENT TO BE IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATION.
10- THE CONTRACTOR SHALL CLEARLY IDENTIFY THE LOCATION OF SITE CONNECTIONS ON THE FABRICATION DRAWINGS TOGETHER WITH DETAILS OF AND CALCULATIONS FOR THOSE CONNECTIONS.
11- FOR FIRE RESISTANCE PERIODS, SHALL BE DESIGNED FOR MINIMUM 2.0 HRS FIRE RESISTANCE.
12- THE CONTRACTOR SHALL ENSURE THAT THE SYSTEMS SELECTED FOR CORROSION PROTECTION AND FIRE PROTECTION ARE COMPATIBLE AND SHALL OBTAIN ACCEPTANCE BY THE ENGINEER PRIOR APPLICATION.
13- WHERE COLD FORMED STEEL SECTIONS ARE SHOWN ON THE DRAWINGS, THE STEEL CONTRACTOR IS TO PROVIDE ALL NECESSARY STRUTS, ANTI SAG RODS DIAGONAL TIES ETC. AS RECOMMENDED BY THE MANUFACTURER.

F-SPECIALTY ITEMS AND PRE-ENGINEERED ELEMENTS

1-SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/BUILD ELEMENTS ARE THOSE ITEMS WHICH ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS BUT REQUIRE THE DESIGN INPUT OF MANUFACTURER, SUPPLIER, AND OR INSTALLER TO BE SUBMITTED BY CONTRACTOR TO THE ENGINEER FOR COMMENTS AND / OR APPROVAL.
2-SPECIALTY ITEMS AND PRE-ENGINEERED COMPONENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING.
a- STEEL TRUSSES.
b- STAIRS, HANDRAILS, GUARDRAILS & LANDSCAPING DETAILS.
c- EXTERIOR CURTAIN WALLS, CLADDING, AND GLAZING.
d- NTERIOR FACADE FRAMING
e- SKYLIGHTS
f- SUPPORT AND ANCHORAGE OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AND COMPONENTS.
g- WINDOW WASHING EQUIPMENT SUPPORTS/BMU SUPPORT.
h- STEEL CRANE.
i- COLD FORMED STEEL STUDS.
3-THE ABOVE SHALL BE DESIGNED TAKING INTO CONSIDERATION THE CONCRETE AND MASONRY NOTES FOR MIX DESIGN, APPLICATION CODES, AND ANY DESIGN LOADS PROVIDED BY THE ENGINEER. IT SHOULD ALSO CONSIDER MANUFACTURER/SUPPLIER'S INSTALLATION MANUAL/ RECOMMENDATON.

G-CONSTRUCTION:

1-MASS CONCRETE
THE CONTRACTOR SHALL IMPLEMENT ALL NECESSARY MEASURES TO MONITOR AND AVOID CRACKING IN FRESH HYDRATING CONCRETE ANY ADDITIONAL REINFORCEMENT IF NEEDED WILL BE AT THE CONTRACTOR'S OWN EXPENSE MAXIMUM ADIABATIC TEMPERATURE RIZE SHALL BE EQUAL TO 25 CELSIUS CONTRACTOR TO PROVIDE A LIST OF THESE MEASURES FOR ENGINEER APPROVAL.
2-M.E.P. AND ARCH. COMPONENTS SUPPORT
SEISMIC LATERAL BRACING, SUPPORT AND ANCHORAGE OF ARCH. COMPONENT AND MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AND COMPONENTS SHALL BE DESIGNED AS PER CHAPTER 13 OF ASCE-7-2010 BY SUB-CONTRACTOR ENGINEER AND REVIEW FOR APPROVAL BY DESIGN ENGINEER.
3-CONSTRUCTION JOINTS:
CONTRACTOR TO SUBMIT POURS CONSTRUCTION JOINTS LOCATIONS AND CONSTRUCTION POURS SEQUENCE FOR STRUCTURAL ENGINEER APPROVAL. CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS SHALL BE APPROVED BY THE ENGINEER.
CONSTRUCTION JOINTS AT ANY SURFACE IN CONTACT WITH SOIL AND/OR WATER SHALL HAVE WATER STOP BAR (REFER TO SPECIFICATIONS).
AT ANY CONSTRUCTION JOINT THE CONTACT SURFACE BETWEEN THE OLD AND NEW CONCRETE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 6mm. IF ADDITIONAL REINFORCEMENT AT CONTACT SURFACE IS REQUIRED BY THE ENGINEER, IT SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
4-FOR FLOOR FLATNESS AND LEVELNESS, REFER TO ARCHITECTURAL SPECIFICATIONS AND ACI 302.1R "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION".
5-CONTRACTOR IS RESPONSIBLE FOR TEMPORARY, PERMANENT, EXCAVATION, BACKFILL, SHORING DEWATERING, PROTECTION AND SIMILAR WHEN NEEDED.

H-FIRE DESIGN

1-FIRE DESIGN SHALL BE IN ACCORDANCE WITH BUILDING CONSTRUCTION AND SAFETY CODE(NFPA 5000)
2-MINIMUM CONSTRUCTION REQUIREMENTS
ALL STRUCTURE MEMBERS SHALL BE DESIGNED FOR MINIMUM 2.0 HOURS BUILDING TYPE I(332)
3-REFER TO FIRE SAFETY REPORT PROVIDED BY -DESIGN FIRE CONSULTANTS.

LAP SPLICE LENGTHS OF DEFORMED BARS IN TENSION

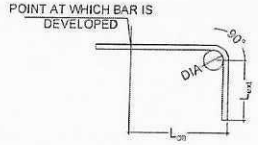
f'c = 28 MPa	LAP SPLICE	UNCOATED BARS			
		TOP BARS		OTHER BARS	
Bar sizes		CASE 1	CASE 2	CASE 1	CASE 2
Ø10 to Ø20	Class A	50 BAR DIA	74 BAR DIA	38 BAR DIA	57 BAR DIA
	Class B	64 BAR DIA	96 BAR DIA	50 BAR DIA	74 BAR DIA
Ø22 to Ø57	Class A	62 BAR DIA	93 BAR DIA	47 BAR DIA	71 BAR DIA
	Class B	80 BAR DIA	121 BAR DIA	62 BAR DIA	93 BAR DIA

NOTES.
1. TABULATED TENSION DEVELOPMENT LENGTH VALUES ARE TAKEN FROM CRSI DESIGN HANDBOOK 2008 10TH ED.
2. TENSION DEVELOPMENT & TENSION LAP SPLICE LENGTHS ARE EXPRESSED AS MULTIPLES OF BAR DIAMETERS.
3. TABULATED VALUES ARE BASED ON MINIMUM YIELD STRENGTH OF REINFORCEMENT, FY, OF 420MPA.
4. CONCRETE IS NORMAL WEIGHT (2400KG/M^3) AND 28 DAY COMPRESSIVE STRENGTH = 28MPA.
5. TABULATED VALUES FOR BEAMS & COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS.
6. CASES 1 & 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED IN THE TABLE BELOW.
7. LAP SPLICE LENGTHS (MINIMUM 300MM) ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS CLASS A = 1.0(TENSION DEVELOPMENT LENGTH) & CLASS B = 1.3(TENSION DEVELOPMENT LENGTH)
8. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 300MM OF CONCRETE CAST BELOW THE BARS.
9. IT SHALL BE PERMISSIBLE TO CALCULATE WALL AND SLAB REINFORCEMENT TENSION DEVELOPMENT/SPLICE LENGTHS IN ACCORDANCE WITH ACI 12.2.3 OR TABLE 5.3(B) OF ACI 2014 IN LIEU OF VALUES TABULATED ABOVE.

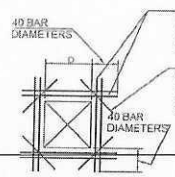
BEAMS, COLUMNS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 2 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 2 BAR DIA
ALL OTHERS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 3 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 3 BAR DIA

STANDARD HOOK GEOMETRY FOR DEVELOPMENT OF DEFORMED BARS IN TENSION PER (ACI 318-14)

BAR DIA	BEND DIA	L_{ext}	L_{dh}
MM	MM	MM	MM
Ø10	60	120	190
Ø12	72	150	220
Ø14	85	170	260
Ø16	95	190	300
Ø18	110	220	340
Ø20	120	240	375
Ø22	130	265	410
Ø25	150	300	470
Ø28	170	340	520



NOTES.
1. CONCRETE IS NORMAL WEIGHT CONCRETE
2. BAR YIELD STRENGTH, FY = 413 MPA
3. SIDE COVER REQUIREMENTS OF ACI SECT. 25.4.3.2 ARE ASSUMED TO NOT BE MET
4. TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 25.4.3.2 ARE ASSUMED TO NOT BE MET
5. REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN
6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.



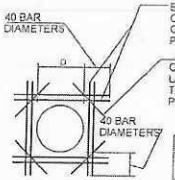
RECTANGULAR OPENINGS

EXTRA BARS EQUAL IN TOTAL AREA TO REGULAR REINFORCING CUT BY OPENING. PLACE ONE HALF TOTAL AREA TO EACH SIDE OF OPENING AND IN THE SAME TRANSVERSE POSITION AS REGULAR REINFORCING.

ONE EXTRA BAR EACH CORNER PER LAYER OF REGULAR REINFORCING (SEE TABLE BELOW). PLACE IN SAME TRANSVERSE POSITION AS REGULAR REINFORCING.

REINFORCING SCHEDULE

THICKNESS OF CONCRETE	BAR SIZE	BAR LENGTH	
		RECT OPNG	CIRC OPNG
< 300	D12	1200	D+300
300TO 450	D16	1200	D+300
450TO 600	D22	1500	D+300
> 600	D25	1800	D+450



CIRCULAR OPENINGS

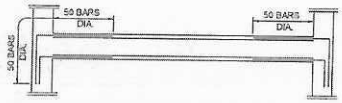
EXTRA BARS EQUAL IN TOTAL AREA TO REGULAR REINFORCING CUT BY OPENING. PLACE ONE HALF TOTAL AREA TO EACH SIDE OF OPENING AND IN THE SAME TRANSVERSE POSITION AS REGULAR REINFORCING

ONE EXTRA BAR EACH CORNER PER LAYER OF REGULAR REINFORCING (SEE TABLE BELOW). PLACE IN SAME TRANSVERSE POSITION AS REGULAR REINFORCING.

REINFORCING SCHEDULE

THICKNESS OF CONCRETE	BAR SIZE	BAR LENGTH	
		RECT OPNG	CIRC OPNG
< 300	D12	1200	D+300
300TO 450	D16	1200	D+300
450TO 600	D22	1500	D+300
> 600	D25	1800	D+450

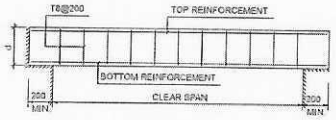
FOR OPENING LARGER THAN 500 IN DIAMETER OR DIAGONAL TYPICAL EXTRA REINFORCING AT OPENINGS IN WALLS AND SLABS



NOTE.

- FOR ALL SILLS AND LINTELS BETWEEN COLUMNS AND NOT SUPPORTED BY A WALL, PROVIDE DOWELS IN THE COLUMN OF SAME SIZE AND NUMBER AS THE REINFORCEMENT OF THE LINTEL OR SILL. THESE DOWELS SHALL EXTEND 50 BAR DIA. FROM THE FACE OF THE COLUMN AND SHALL BE EMBEDDED 50 BAR DIA. IN THE COLUMN.

9 TYP. LINTEL DETAIL
NTS



SCHEDULE OF LINTELS REINFORCEMENT

LINTEL WIDTH → b / CLEAR SPAN (cm) ↓	b=10cm.		b=15cm.		b=20cm OR 25cm		b=40cm.		DEPTH= d
	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	
< 200	1T10	1T14	2T10	2T12	2T10	2T12	4T10	4T12	20
200-300	1T10	1T16	2T10	2T14	2T10	2T16	4T10	4T16	25
301-400	1T10	1T20	2T10	2T16	2T10	2T18	4T12	4T18	30
401-500	1T10	1T20	2T10	2T16	2T10	2T18	4T12	4T20	40
501-600	1T10	1T20	2T10	2T18	2T10	2T18	4T12	4T20	50
601-700	1T12	1T25	2T12	4T20 in 2layers	2T12	2T25	4T12	4T25	60

OR PROVIDE CATHC TYPE STEEL LINTELS OF DEPTH AND THICKNESS APPROPRIATE TO SPAN AND LOAD CARRIED.

Designed by: Rahullah Musad
Drawn by: Rahullah Musad
Checked By
Approved By

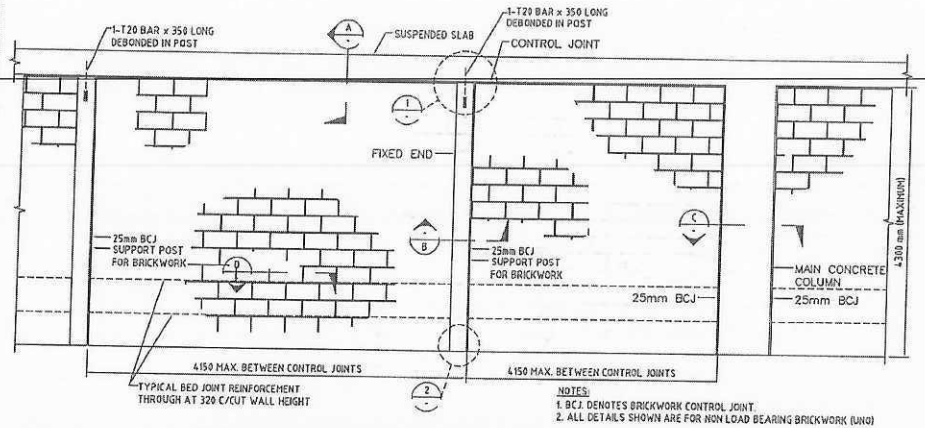
No	Submission Description	Date
01	For Tender	14/02/2020

Contract No
Contract Date
Issue Date
Drawn Date
Paper Size
Scale

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

Drawing Reference Number

Directorate

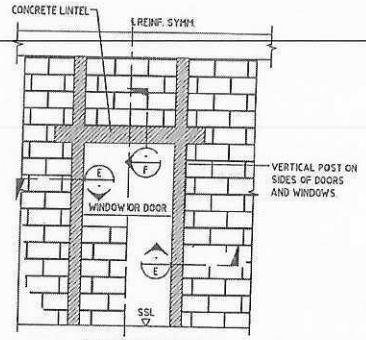


NOTES:
1. BCJ. DENOTES BRICKWORK CONTROL JOINT.
2. ALL DETAILS SHOWN ARE FOR NON LOAD BEARING BRICKWORK (UNO)

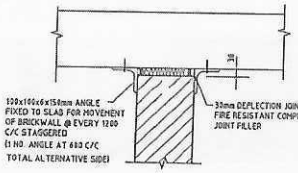
TYPICAL ELEVATION FOR 220mm THICK BRICKWORK
1:30

NOTES

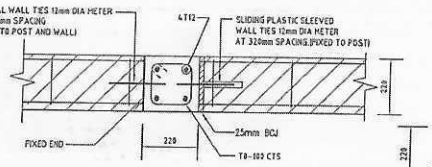
1. ALL CONTROL JOINTS ARE TO BE FILLED WITH COMPRESSIBLE EXPANDABLE FILLER.
2. GREAT CARE MUST BE TAKEN TO ENSURE THAT MORTAR DROPPINGS AND OTHER HARD MATERIALS DO NOT FALL OR REMAIN IN THE CONTROL JOINTS. POLYSTYRENE TO BE PLACED IN ALL VERTICAL JOINTS DURING CONSTRUCTION IN MASONRY TO AVOID MORTAR DROPPINGS FILLING THE JOINTS.
3. ALL JOINTS ARE TO BE REVIEWED AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO USE.
4. WHERE FILLER MATERIALS ARE NOT SPECIFIED BY A TRADE NAME, THE CONTRACTOR SHALL SUBMIT THE NAME OF HIS PROPOSED FILLERS TO THE DESIGN TEAM FOR REVIEW PRIOR TO USE.
5. THE CONTACTOR'S ATTENTION IS DRAWN TO THE MANUFACTURER'S REQUIREMENTS WITH REGARD TO THE POSITION OF THE FLEXIBLE ANCHORS WHEN FIXED. THE MANUFACTURER'S WRITTEN RECOMMENDATIONS SHALL BE FOLLOWED STRICTLY.
6. THE CONTRACTOR IS TO TAKE PARTICULAR CARE TO ENSURE THAT ALL PERPENDS AND BEDS ARE PROPERLY FILLED WITH MORTAR.
7. PROVIDE RESTRAINT TO ALL MASONRY AT SOFFIT OF SLAB OVER AS REQUIRED.
8. PROVIDE HORIZONTAL BED JOINT REINFORCEMENT AS PER SPECIFICATIONS AND DETAILS ON DRAWINGS.
9. PROVIDE LINTELS OVER ALL OPENINGS OR RECESSES IN MASONRY WALLS, INCLUDING THOSE OPENINGS FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT.
10. 12mm DIA TIES @ MAXIMUM 320C/C TO ALL STRUCTURE COLUMN/SHEAR WALLS VERTICALLY WITH MINIMUM 125MM FULL EMBEDMENT EACH SIDE OF THE ANCHOR.
11. WATER ABSORPTION OF BRICKS SHOULD NOT BE MORE THAN 15%
12. COMPRESSIVE STRENGTH OF INDIVIDUAL BRICK =2000Psi MINIMUM.
13. CONCRETE STRENGTH FOR POSTS =4000Psi
14. COMPRESSIVE STRENGTH OF MASONRY FROM PRISM TEST fm' =750Psi
15. YIELD STRENGTH OF REINFORCEMENT =60000Psi
16. MORTAR JOINTS THICKNESS=10mm.



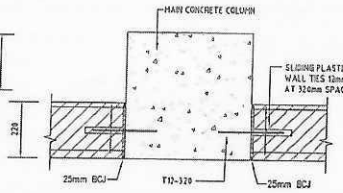
TYPICAL BRICKWORK DETAIL WINDOW OR DOOR OPENING
1:30



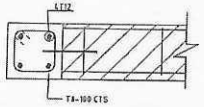
SECTION A
1 : 10



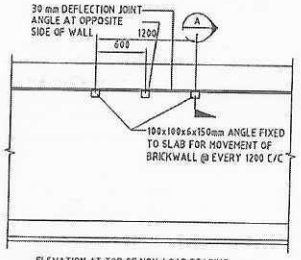
SECTION B
1 : 10



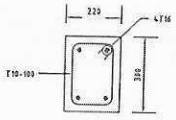
SECTION C
1 : 10



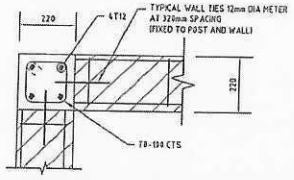
SECTION E
1 : 10



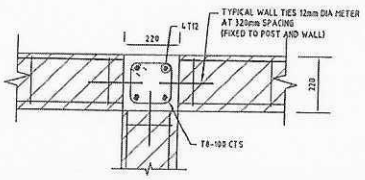
ELEVATION AT TOP OF NON-LOAD BEARING BRICK WORK WALL
1 : 30



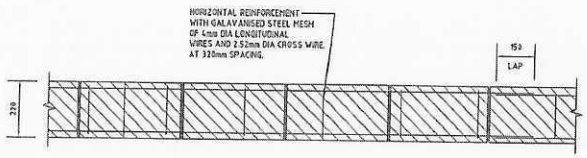
SECTION F
1 : 10



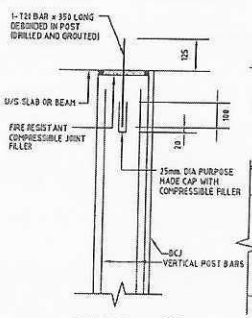
TYPICAL DETAIL OF CORNER 220mm THICK BRICK WORK WALL
1 : 10



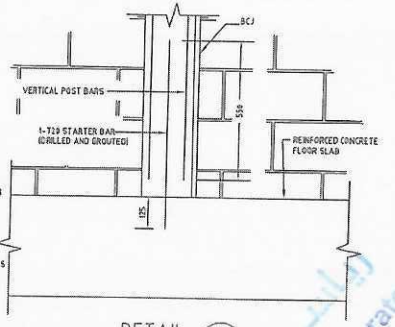
TYPICAL DETAIL OF T JUNCTION 220mm THICH BRICK WORK WALL
1 : 10



SECTION D
1 : 10

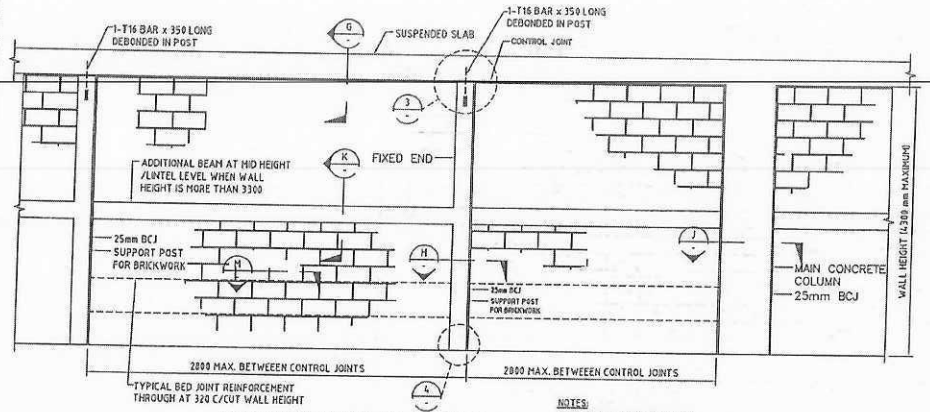


DETAIL 1
1 : 10



DETAIL 2
1 : 10

Designed by: Rafiullah Murad
Drawn by: Rafiullah Murad
Checked by
Date of Completion
Approved by
Submission Description: For Tender
Date: 14/09/1439
Contract No.
Contract Date
Fiscal Year: 1439/1440
Sheet Date: Jan-18
Project No.: 13
Scale: 1:20
Sheet Reference Number
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCES OF AFGHANISTAN
Sheet Number: A-003

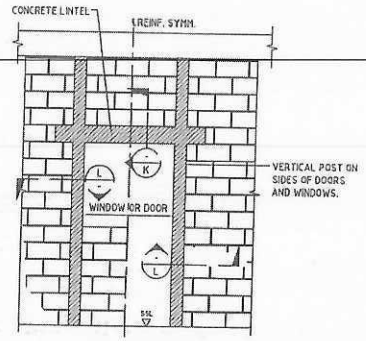


TYPICAL ELEVATION FOR 105mm THICK BRICKWORK
1 : 30

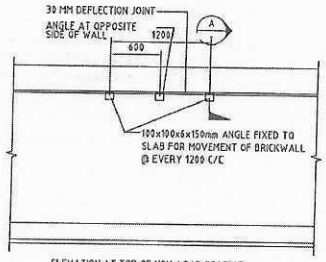
NOTES:
1. BCJ DENOTES BRICKWORK CONTROL JOINT.
2. ALL DETAILS SHOWN ARE FOR NON LOAD BEARING BRICKWORK (UNO)

NOTES

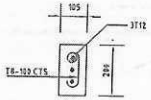
1. ALL CONTROL JOINTS ARE TO BE FILLED WITH COMPRESSIBLE EXPANDABLE FILLER.
2. GREAT CARE MUST BE TAKEN TO ENSURE THAT MORTAR DROPPINGS AND OTHER HARD MATERIALS DO NOT FALL OR REMAIN IN THE CONTROL JOINTS. POLYSTYRENE TO BE PLACED IN ALL VERTICAL JOINTS DURING CONSTRUCTION IN MASONRY TO AVOID MORTAR DROPPINGS FILLING THE JOINTS.
3. ALL JOINTS ARE TO BE REVIEWED AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO USE.
4. WHERE FILLER MATERIALS ARE NOT SPECIFIED BY A TRADE NAME, THE CONTRACTOR SHALL SUBMIT THE NAME OF HIS PROPOSED FILLERS TO THE DESIGN TEAM FOR REVIEW PRIOR TO USE.
5. THE CONTACTOR'S ATTENTION IS DRAWN TO THE MANUFACTURER'S REQUIREMENTS WITH REGARD TO THE POSITION OF THE FLEXIBLE ANCHORS WHEN FIXED. THE MANUFACTURER'S WRITTEN RECOMMENDATIONS SHALL BE FOLLOWED STRICTLY.
6. THE CONTRACTOR IS TO TAKE PARTICULAR CARE TO ENSURE THAT ALL PERPENDS AND BEDS ARE PROPERLY FILLED WITH MORTAR.
7. PROVIDE RESTRAINT TO ALL MASONRY AT SOFFIT OF SLAB OVER AS REQUIRED.
8. PROVIDE HORIZONTAL BED JOINT REINFORCEMENT AS PER SPECIFICATIONS AND DETAILS ON DRAWINGS.
9. PROVIDE LINTELS OVER ALL OPENINGS OR RECESSES IN MASONRY WALLS, INCLUDING THOSE OPENINGS FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT.
10. 12mm DIA TIES @ MAXIMUM 320C/C TO ALL STRUCTURE COLUMN/SHEAR WALLS VERTICALLY WITH MINIMUH 125MM FULL EMBEDMENT EACH SIDE OF THE ANCHOR.
11. WATER ABSORPTION OF BRICKS SHOULD NOT BE MORE THAN 15%
12. COMPRESSIVE STRENGTH OF INDIVIDUAL BRICK =2000Psi MINIMUM.
13. CONCRETE STRENGTH FOR POSTS =4000Psi
14. COMPRESSIVE STRENGTH OF MASONRY FROM PRISM TEST fm' =750Psi
15. YIELD STRENGTH OF REINFORCEMENT =60000Psi
16. MORTAR JOINTS THICKNESS=10mm.



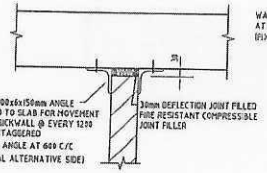
TYPICAL BRICKWORK DETAIL
WINDOW OR DOOR OPENING
1 : 30



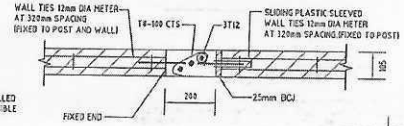
ELEVATION AT TOP OF NON-LOAD BEARING
BRICK WORK WALL
1 : 10



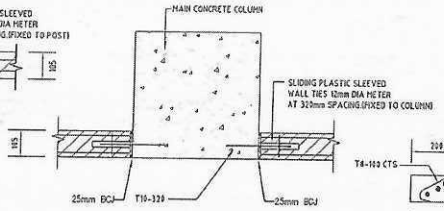
SECTION K
1 : 10



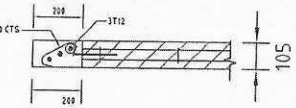
SECTION G
1 : 10



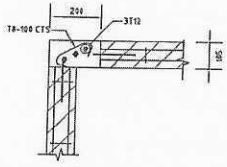
SECTION H
1 : 10



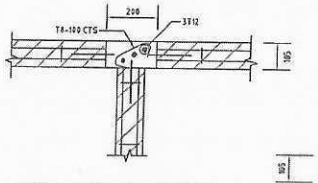
SECTION J
1 : 10



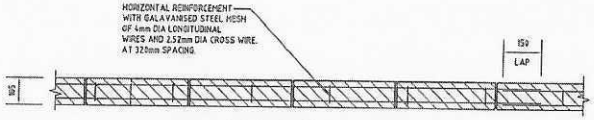
SECTION L
1 : 10



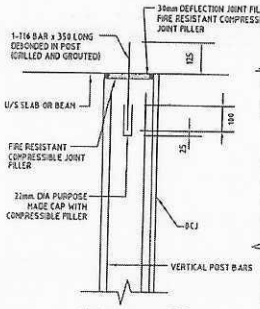
TYPICAL DETAIL OF CORNER
105mm THICK BRICK WORK WALL
1 : 10



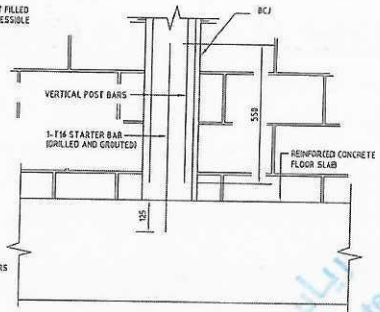
TYPICAL DETAIL OF T JUNCTION
105mm THICH BRICK WORK WALL
1 : 10



SECTION M
1 : 10



DETAIL 3
1 : 10



DETAIL 4
1 : 10

Designed by: Rahullah Murad
Drawn by: Rahullah Murad
Checked by:
Head of Department:
Approved by:
Date:

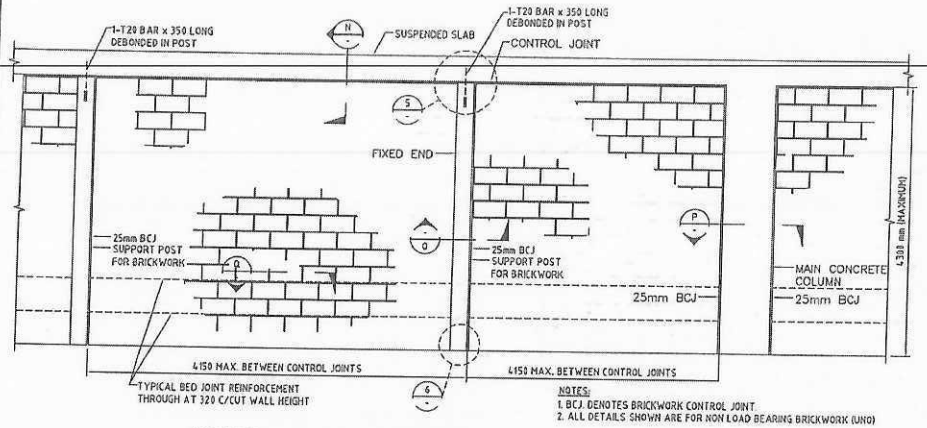
No	Submission Description	Date
01	For Tender	14/03/2020

Contract No:
Contract Date:
Fiscal Year: 1400/1401
Drawn Code: JAR/SC
Paper Size: A0
Scale:

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

Sheet Reference Number:

Directorate

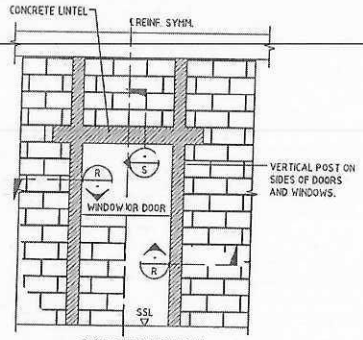


NOTES:
1. BCJ. DENOTES BRICKWORK CONTROL JOINT.
2. ALL DETAILS SHOWN ARE FOR NON LOAD BEARING BRICKWORK (UNO)

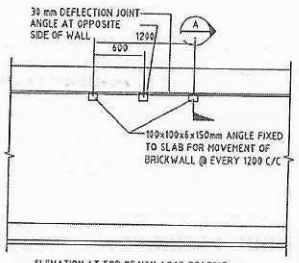
TYPICAL ELEVATION FOR 330mm THICK BRICKWORK
1 : 30

NOTES

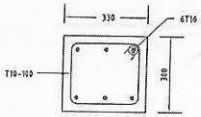
1. ALL CONTROL JOINTS ARE TO BE FILLED WITH COMPRESSIBLE EXPANDABLE FILLER.
2. GREAT CARE MUST BE TAKEN TO ENSURE THAT MORTAR DROPPINGS AND OTHER HARD MATERIALS DO NOT FALL OR REMAIN IN THE CONTROL JOINTS. POLYSTYRENE TO BE PLACED IN ALL VERTICAL JOINTS DURING CONSTRUCTION IN MASONRY TO AVOID MORTAR DROPPINGS FILLING THE JOINTS.
3. ALL JOINTS ARE TO BE REVIEWED AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO USE.
4. WHERE FILLER MATERIALS ARE NOT SPECIFIED BY A TRADE NAME, THE CONTRACTOR SHALL SUBMIT THE NAME OF HIS PROPOSED FILLERS TO THE DESIGN TEAM FOR REVIEW PRIOR TO USE.
5. THE CONTACTOR'S ATTENTION IS DRAWN TO THE MANUFACTURER'S REQUIREMENTS WITH REGARD TO THE POSITION OF THE FLEXIBLE ANCHORS WHEN FIXED. THE MANUFACTURER'S WRITTEN RECOMMENDATIONS SHALL BE FOLLOWED STRICTLY.
6. THE CONTRACTOR IS TO TAKE PARTICULAR CARE TO ENSURE THAT ALL PERPENDS AND BEDS ARE PROPERLY FILLED WITH MORTAR.
7. PROVIDE RESTRAINT TO ALL MASONRY AT SOFFIT OF SLAB OVER AS REQUIRED.
8. PROVIDE HORIZONTAL BED JOINT REINFORCEMENT AS PER SPECIFICATIONS AND DETAILS ON DRAWINGS.
9. PROVIDE LINTELS OVER ALL OPENINGS OR RECESSES IN MASONRY WALLS, INCLUDING THOSE OPENINGS FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT.
10. 12mm DIA TIES @ MAXIMUM 320C/C TO ALL STRUCTURE COLUMN/SHEAR WALLS VERTICALLY WITH MINIMUM 125MM FULL EMBEDMENT EACH SIDE OF THE ANCHOR.
11. WATER ABSORPTION OF BRICKS SHOULD NOT BE MORE THAN 15%
12. COMPRESSIVE STRENGTH OF INDIVIDUAL BRICK =2000Psi MINIMUM.
13. CONCRETE STRENGTH FOR POSTS =4000Psi
14. COMPRESSIVE STRENGTH OF MASONRY FROM PRISM TEST fm' =750Psi
15. YIELD STRENGTH OF REINFORCEMENT =60000Psi
16. MORTAR JOINTS THICKNESS=10mm.



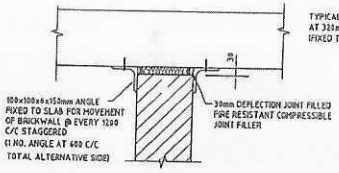
TYPICAL BRICKWORK DETAIL WINDOW OR DOOR OPENING
1 : 30



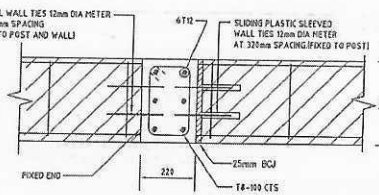
ELEVATION AT TOP OF NON-LOAD BEARING BRICK WORK WALL
1 : 30



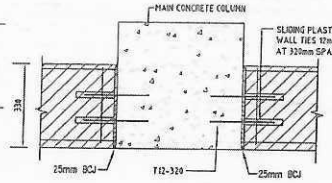
SECTION S
1 : 10



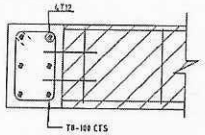
SECTION N
1 : 10



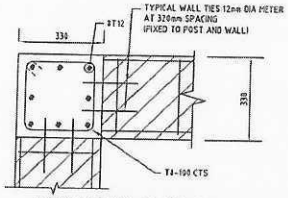
SECTION O
1 : 10



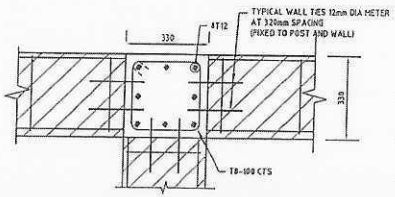
SECTION P
1 : 10



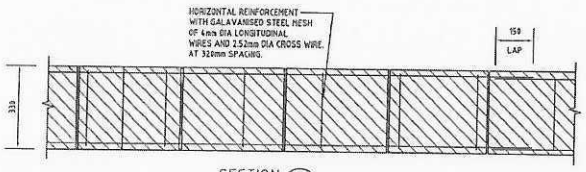
SECTION R
1 : 10



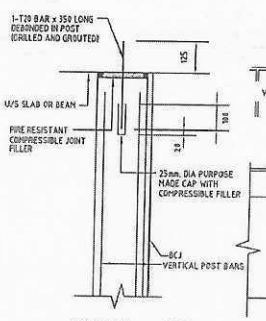
TYPICAL DETAIL OF CORNER 330mm THICK BRICK WORK WALL
1 : 10



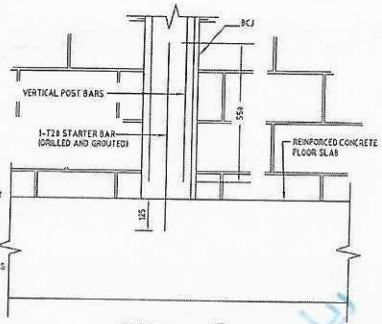
TYPICAL DETAIL OF T JUNCTION 330mm THICH BRICK WORK WALL
1 : 10



SECTION Q
1 : 10



DETAIL 5
1 : 10



DETAIL 6
1 : 10

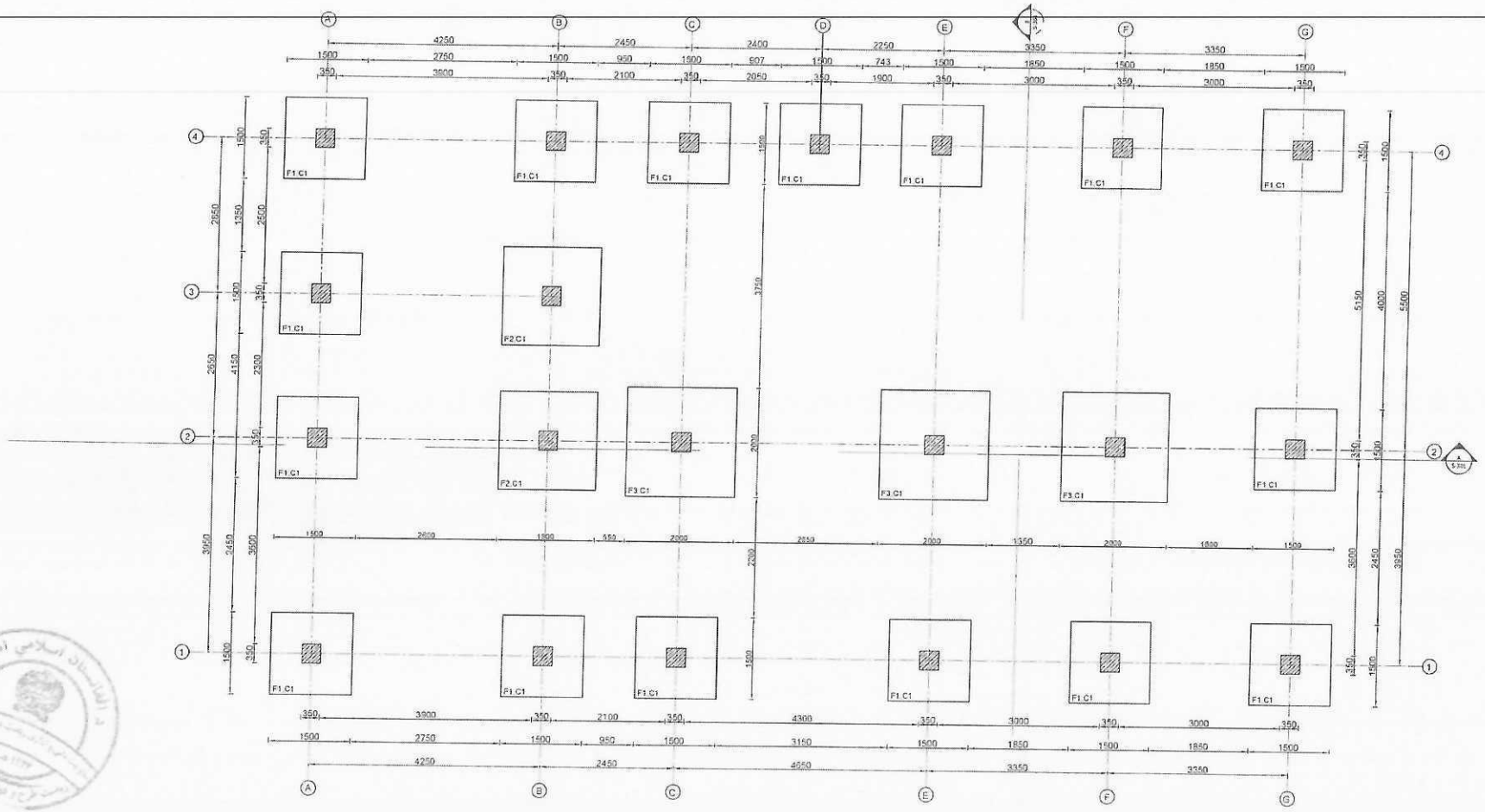
Designed by: Rahullah Murad
Drawn by: Rahullah Murad
Checked by:
Approved by:
Date: 1400/04/20
Contract No:
Contract Date:
Fiscal Year: 1400-1404
Drawing Code: AP/PO
Plot Size: A3
Plot Date: 1400/04/20
Scale:

No	Submission Description	Date
00	For Tender	1400/04/20

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

Sheet Reference Number:

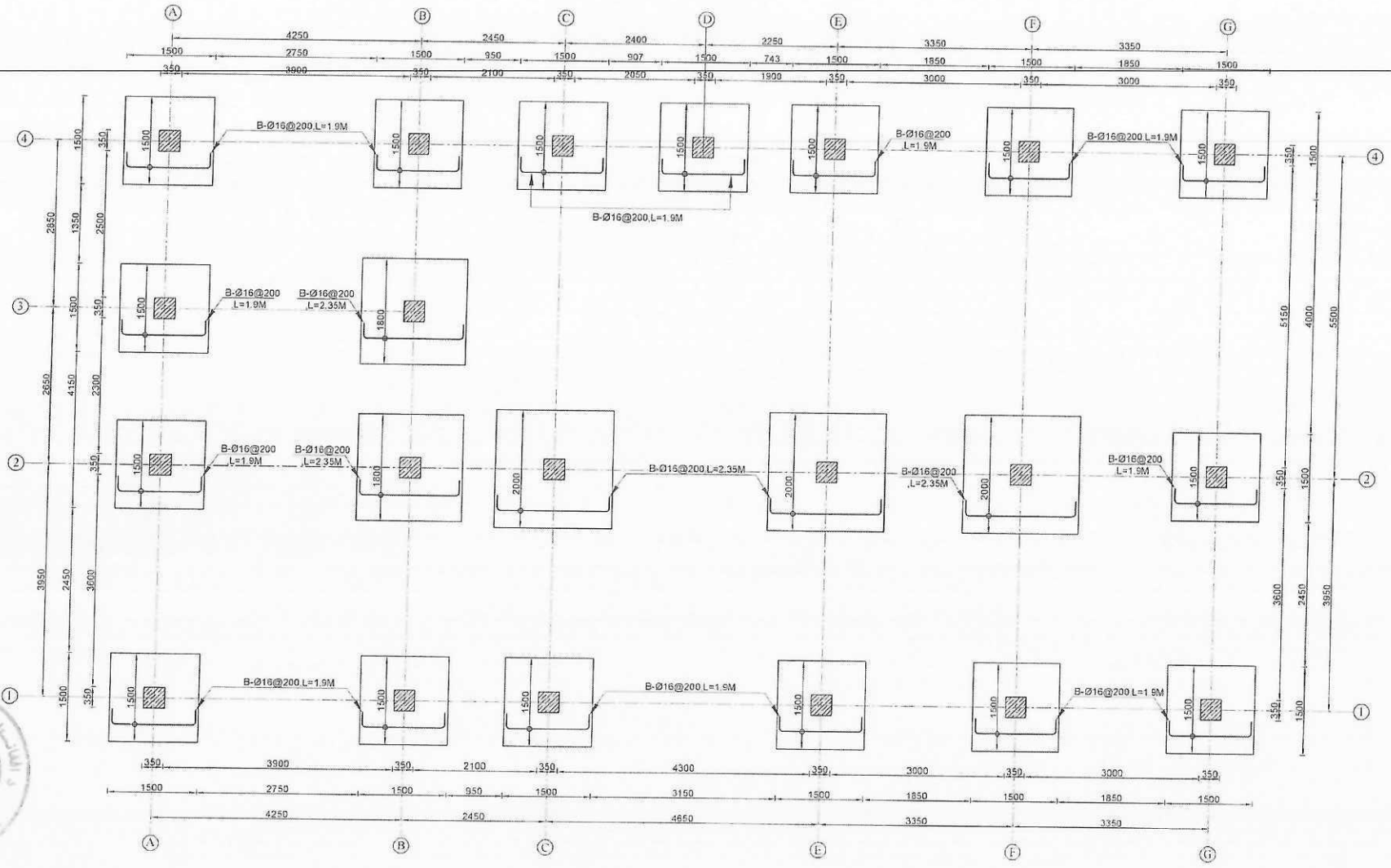
Directorate



01 FOUNDATION PLAN LAYOUT
S-101 SCALE- 1:40

Designed by	Rahullah Mullah	No	Submission Description	Date	Contract No		AFGHAN POST TYPICAL POST OFFICE
Drawn by	Rahullah Mullah	01	For Tender	14020805	Contract Date		ALL PROVINCE OF AFGHANISTAN
Checked by Head of Department					Fiscal Year	1402/1403	
Approved by					Drawn Date	APR/10	POST OFFICE BUILDING
					Paper Size	A3	FOUNDATION PLAN LAYOUT
					Plot Date	14020805	
					Scale	1:40	

Sheet Reference Number
S-101



01 FOUNDATION BOT REINF @ X DIRC
S-102 SCALE 1:40

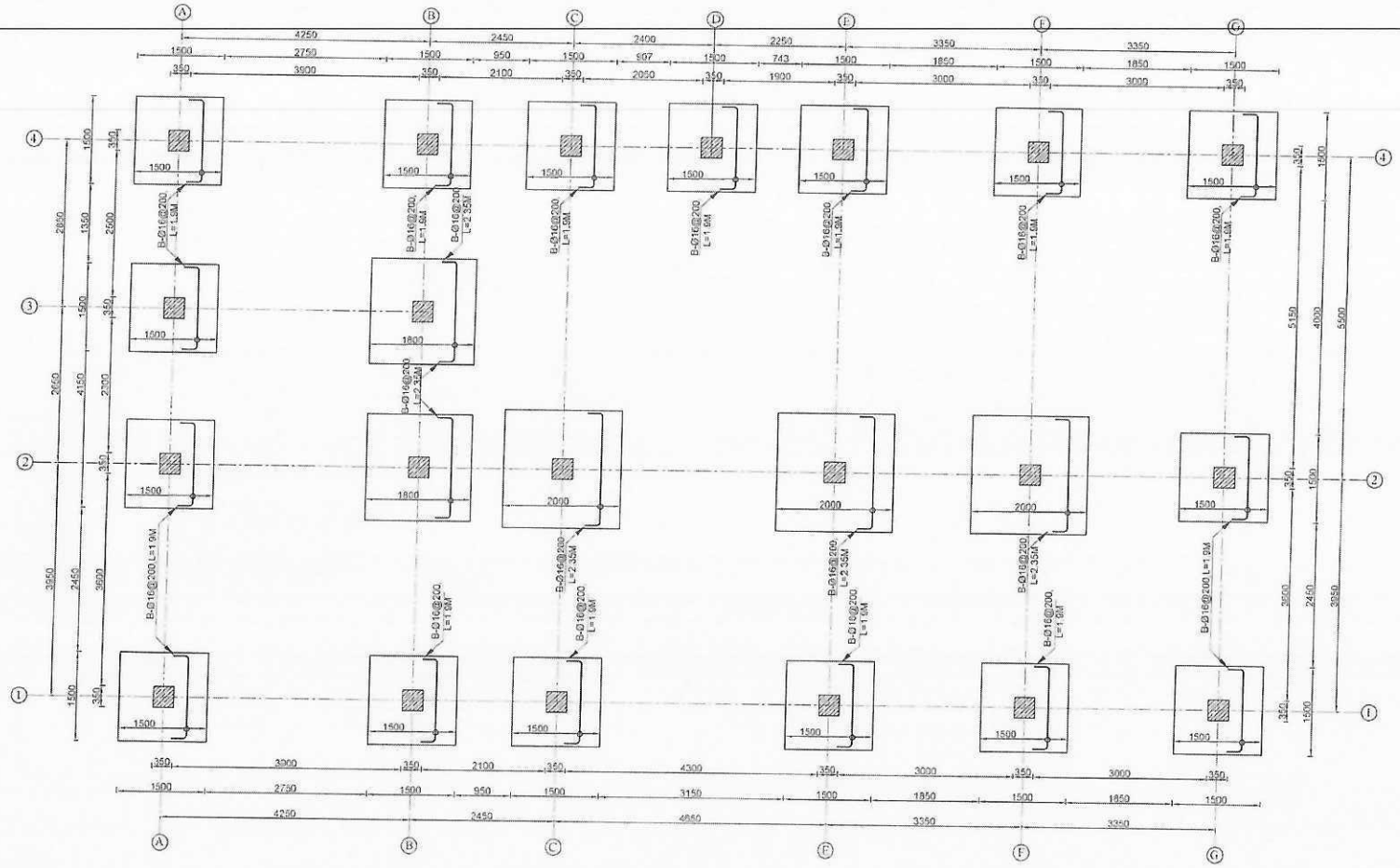
Designed by: Rahmatullah Murad
Drawn by: Rahmatullah Murad
Checked By: Head of Department
Approved By: Vice Deputy Head

No	Submission Description	Date
01	For Tender	14/02/2022

Contract No:
Contract Date:
Fiscal Year: 1400/1401
Drawn Date: 2022
Paper Size: A3
Plot Date: 2022-02-1
Scale: 1:40

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
FOUNDATION BOT REINF
S-102

Directorate



01 FOUNDATION TOB REINF @ Y DIRC
S-103
SCALE- 1 40

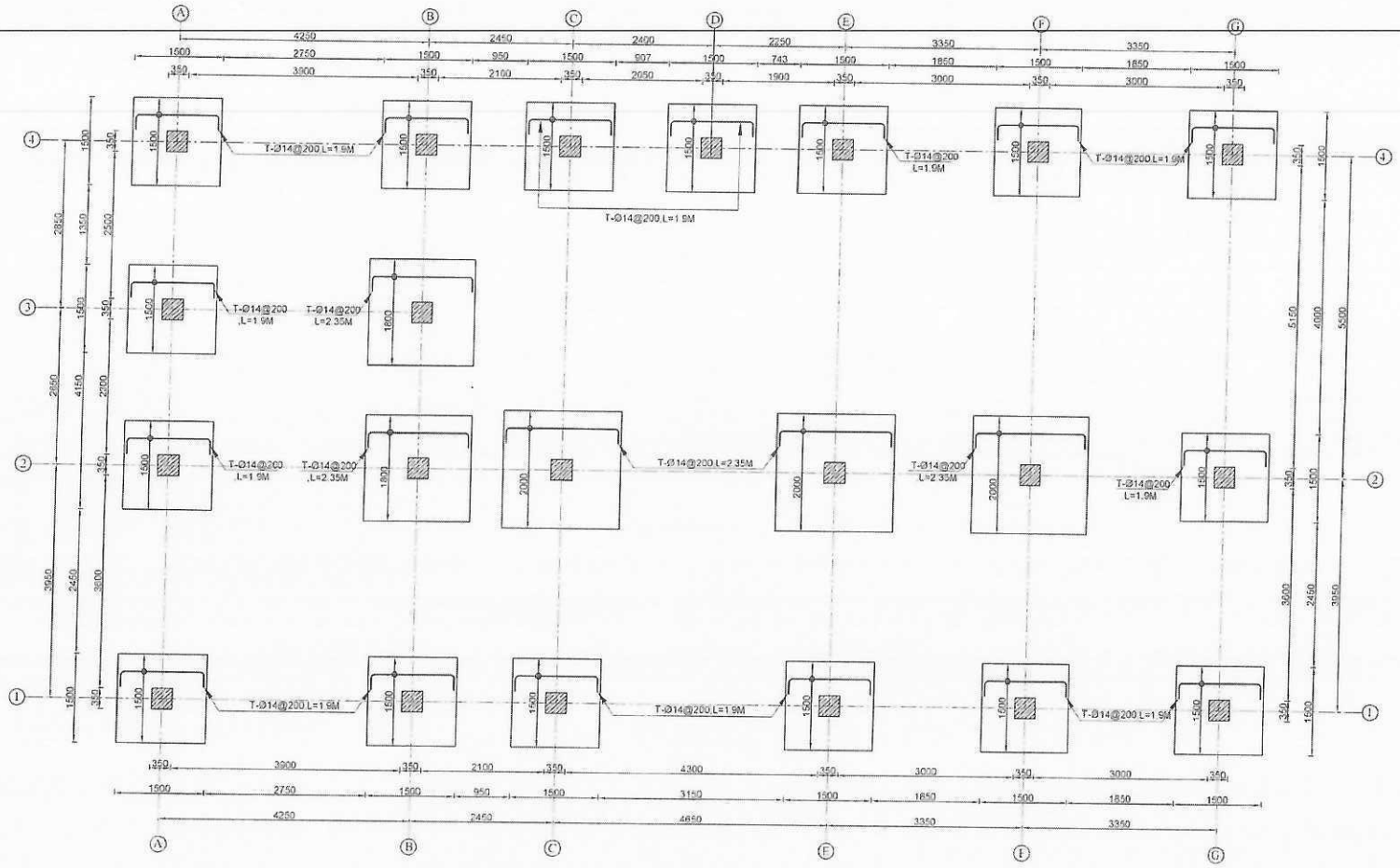
Designed by: Rahullah Murad
Drawn By: Rahullah Murad
Checked By: Head of Department
Approved By: Vice Chairman

No	Submission Description	Date
01	For Tender	4/22/2020

Contract No
Contract Date
Fiscal Year
Drawn Code
Fiscal Scale
Plot Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
FOUNDATION TOB REINF @ Y DIRC

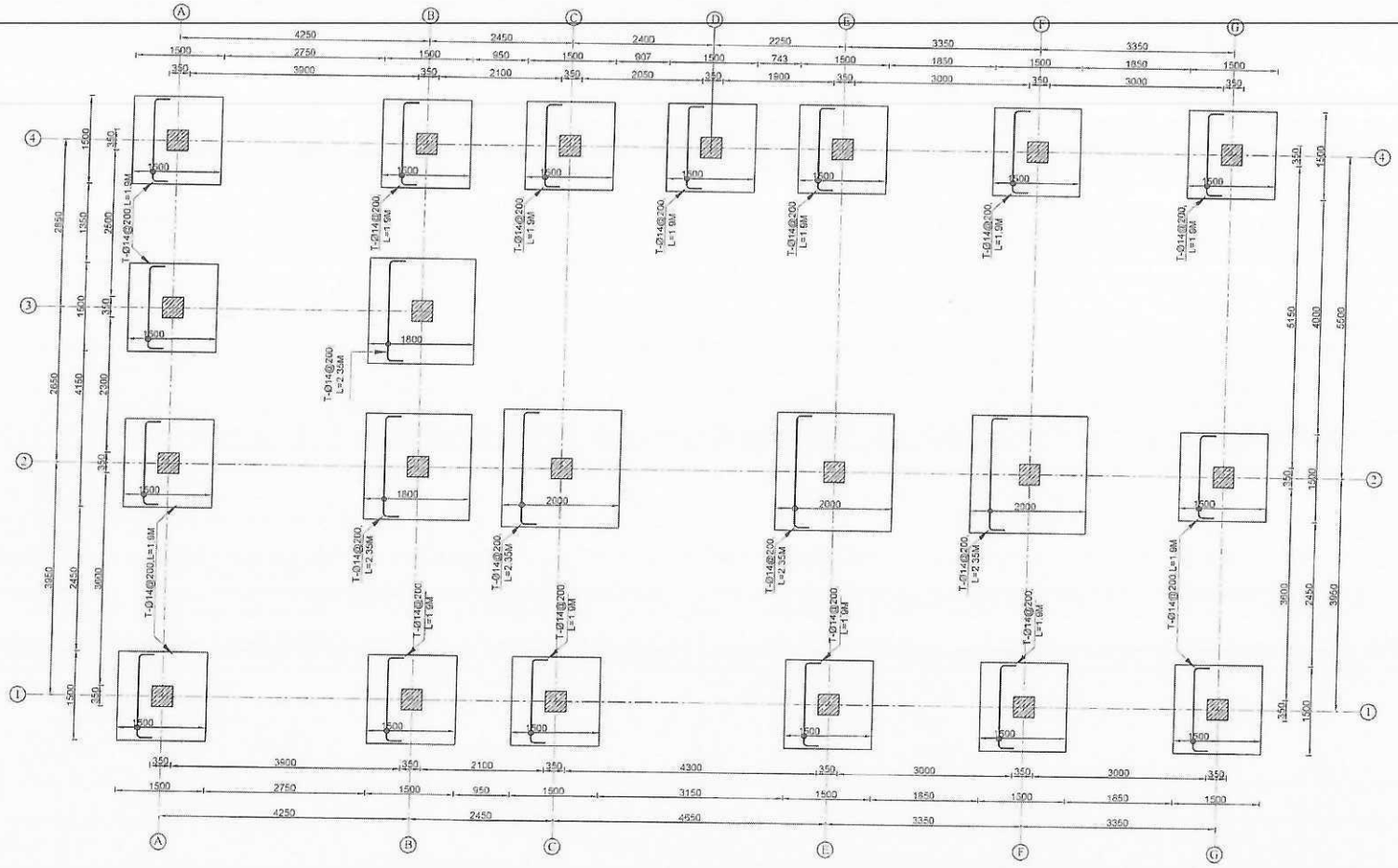
Sheet Reference Number
S-103



01 FOUNDATION TOP REINF @ X DIRC
S-104 SCALE- 1:40

Designed by	Rahullah Nurzad	No	Submission Description	Date	Contract No	AFGHAN POST TYPICAL POST OFFICE	Sheet Reference Number
Drawn by	Rahullah Nurzad	01	For Tender	14/09/20	Contract Date	ALL PROVINCE OF AFGHANISTAN	
Checked by Head of Department					Fiscal Year 1400/1401	POST OFFICE BUILDING	
Approved by Vice Commander					Drawn Date 02/11/20	FOUNDATION TOP REINF @ X DIRC	
					Paper Size A0		
					Plot Date 14/09/20		
					Scale AS NOTED		

Directorate



01 FOUNDATION TOP REINF @ Y DIRC

S-105 SCALE- 1:40

No	Submission Description	Date
01	For Tender	14/06/2020

Designed by: Rahman Murad

Drawn by: Rahman Murad

Contract No

Contract Date

Fiscal Year: 1400/1444

Drawn Date: Jun/2020

Plotted Size: A3

Plot Date: 4/07/2020

Scale: 1:40

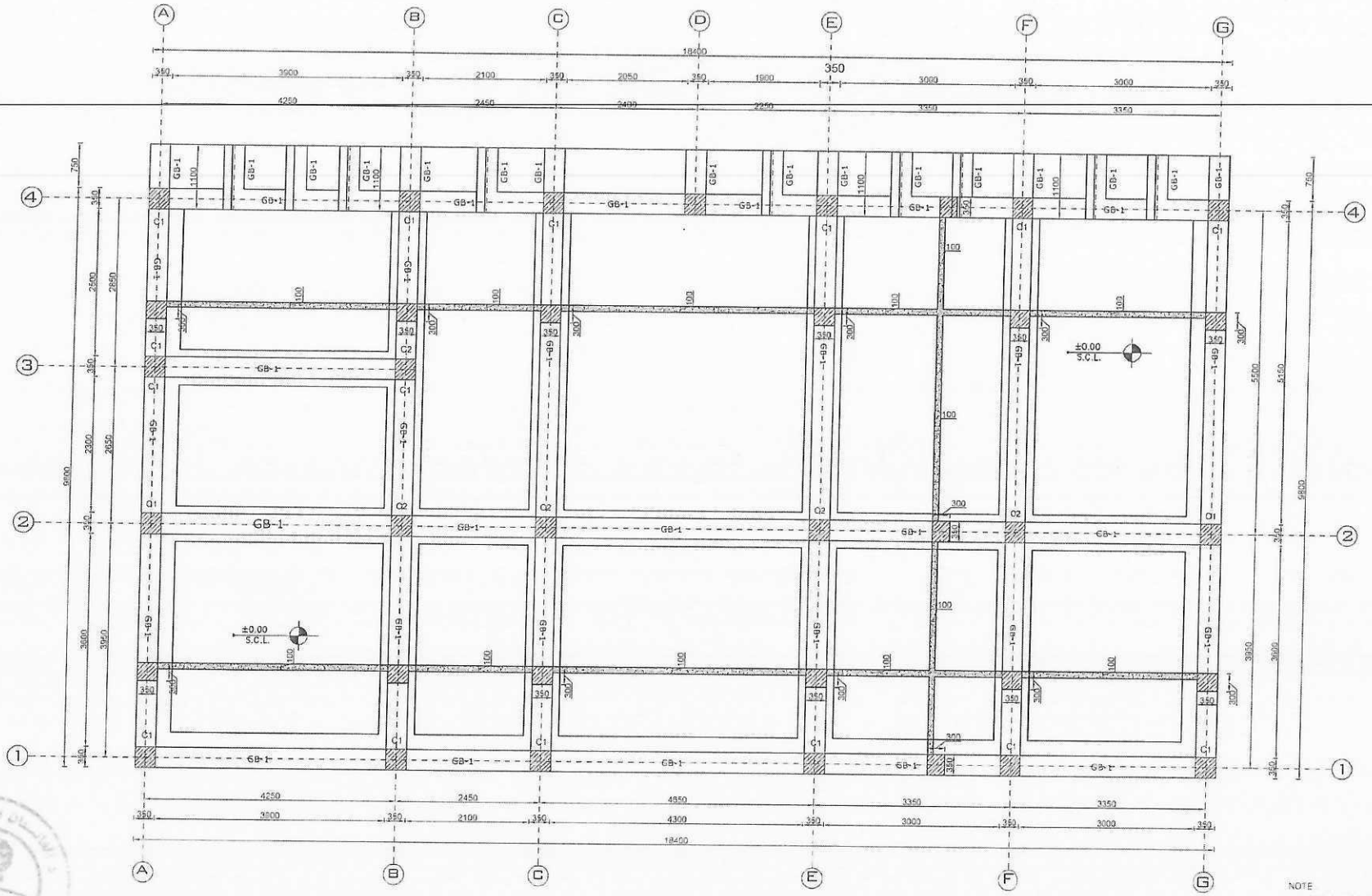
AFGHAN POST TYPICAL POST OFFICE

ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING

FOUNDATION TOP REINF @ Y DIRC

Design Directorate



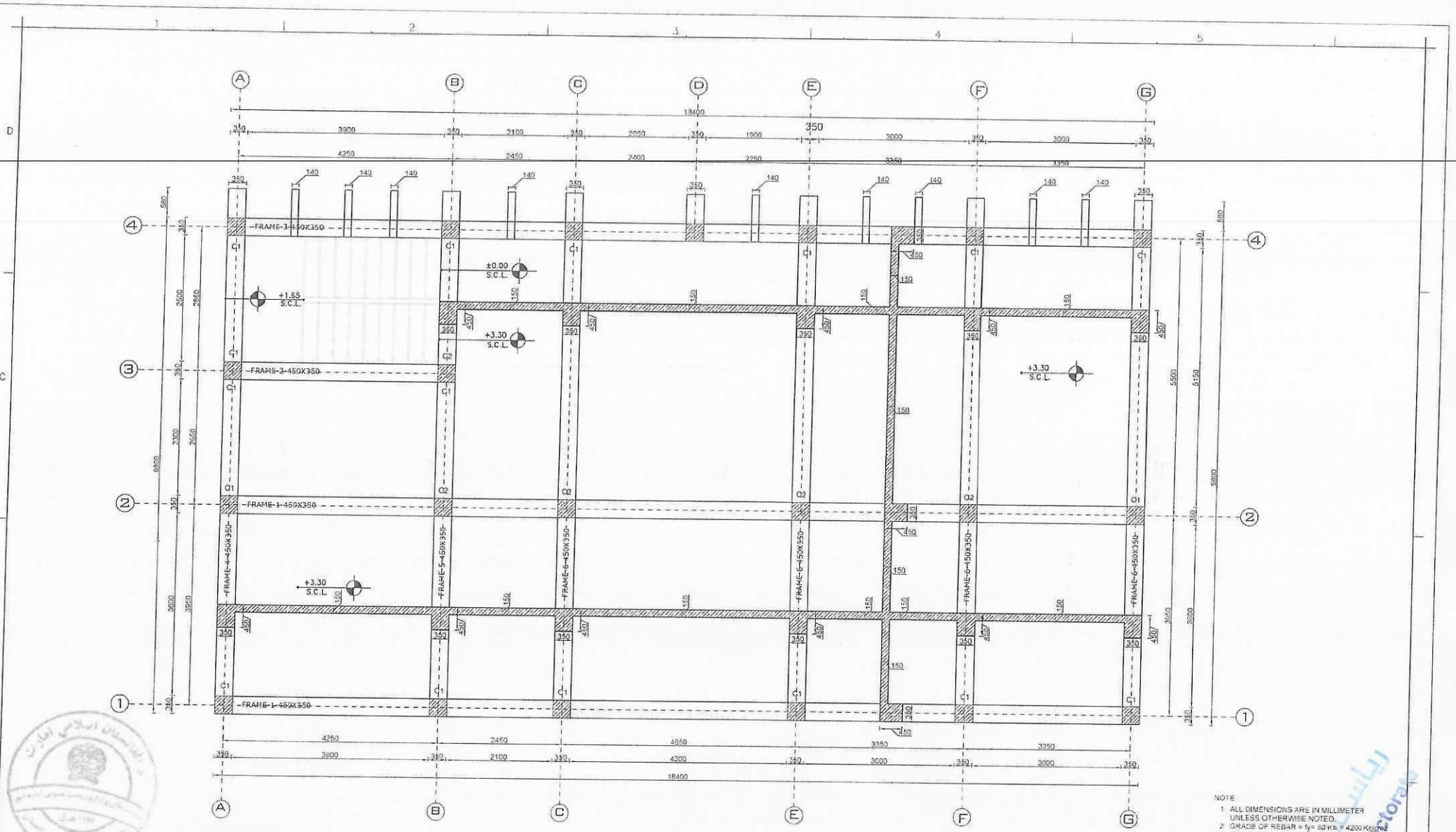
01 GR FLR RING BEAM LAOUT (+0.00M LEVL)

S-106 REF SCALE- 1:35

NOTE

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC. = fc = 4000 psi =280 Kg/cm2

Designed by	Rahmatullah Murad	No.	Submission Description	Date	Contract No.	AFGHAN POST TYPICAL POST OFFICE
Drawn by	Rahmatullah Murad	01	For Tender	14.02.2022	Contract Date	ALL PROVINCE OF AFGHANISTAN
Checked By					Paper Size	POST OFFICE BUILDING
Approved By						



01 FIRST FLR FRAME LAOUT (+3.30M LEVL)
S-107 REF SCALE-1:35

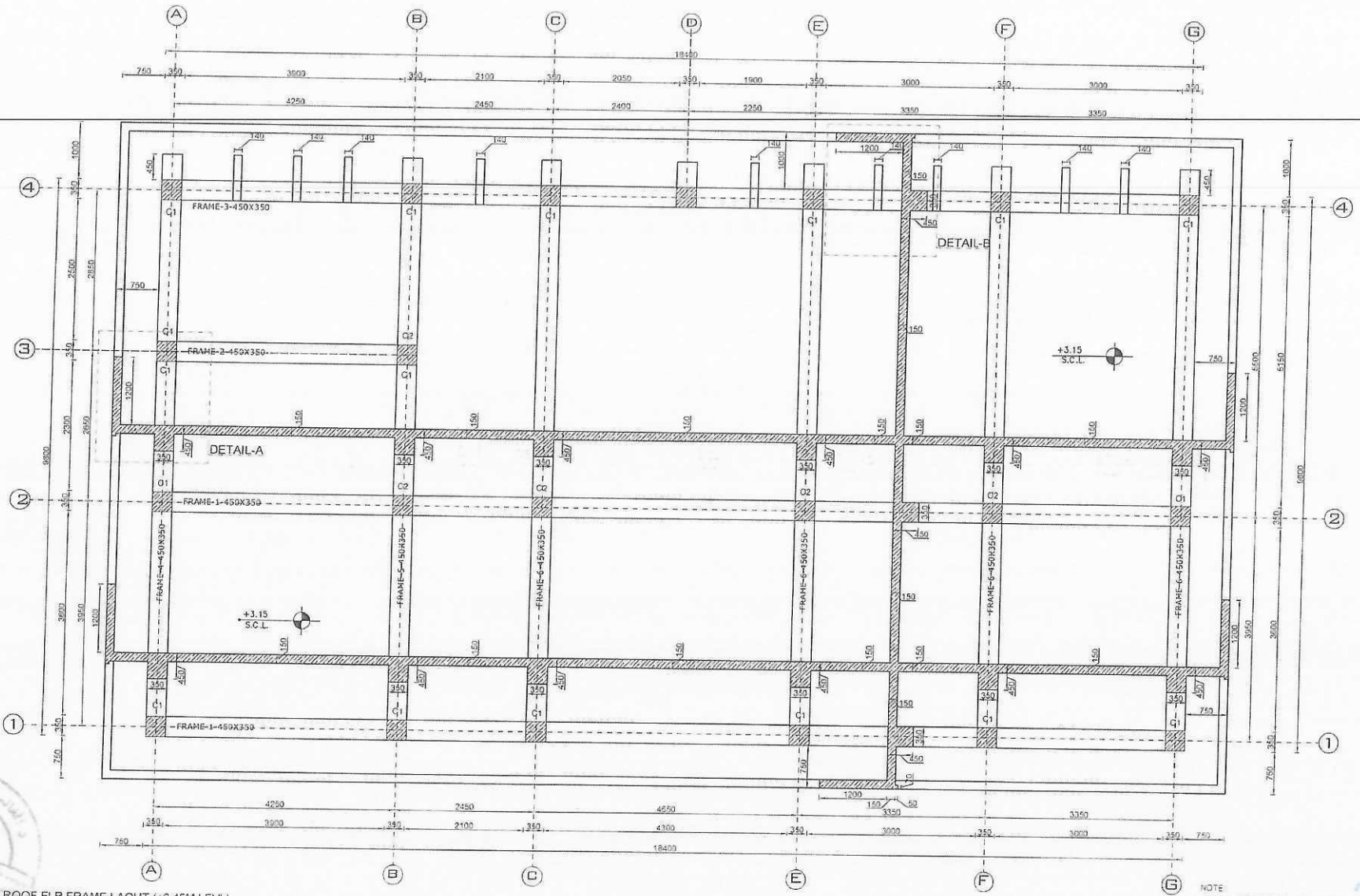
NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC = fc = 4000 psi =280 Kg/cm2

Designed by Kahdan Murad
Drawn by Kahdan Murad

No	Submission Description	Date
01	For Tender	14/09/1400

Contract No
Contract Date
Fiscal Year 1400-1401
Drawn Code
Paper Size A3
Sheet Reference Number S-107

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN



01 ROOF FLR FRAME LAOUT (+6.45M LEVL)
S-108 . REF
SCALE- 1:35

NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED
2. GRADE OF REBAR = fy = 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC = fc = 4000 Psi = 280 Kg/cm2

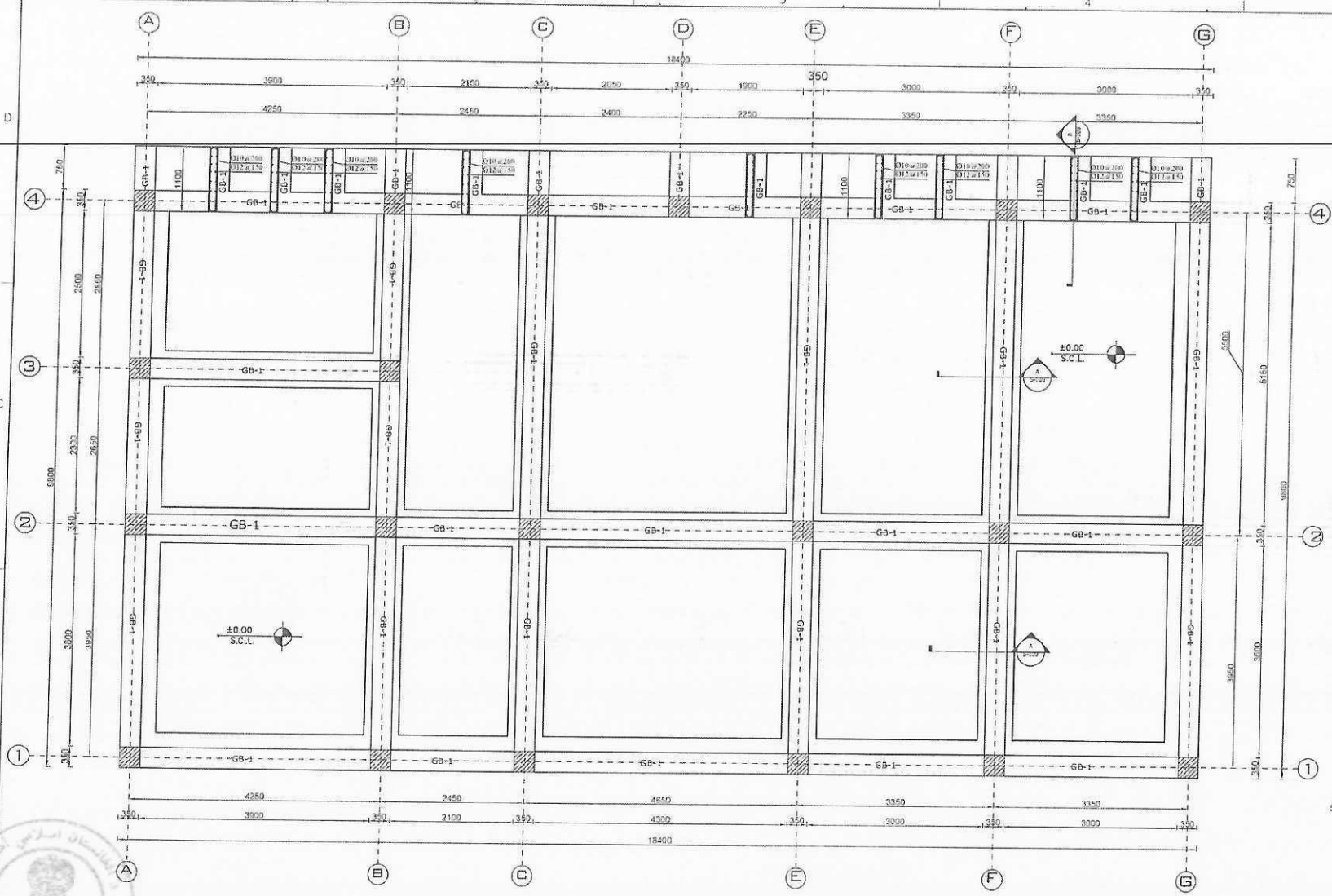
Designed by: Rahmatullah Murad
Drawn by: Rahmatullah Murad
Checked by:
Approved by:

No	Submission Description	Date
01	For Tender	14/02/2022

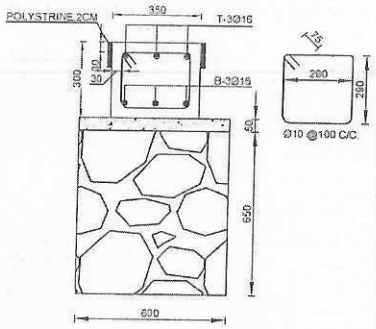
Contract No
Contract Date
Place Year
Draw Date
Place No
Pro Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
ROOF FLR FRAME LAOUT

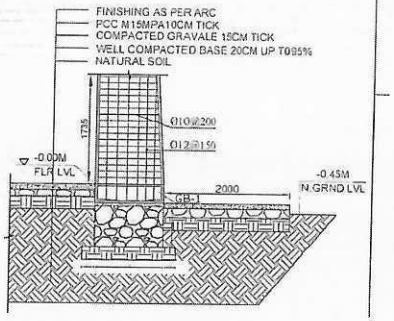
Sheet Reference Number



01 | GR FLR RING BEAM WITH ELEMENT RIEN LAOUT (+0.0M LEVL)
S-109 | REF SCALE- 1:35



02 | GR FLR RING BEAM SECTION -A
S-109 | REF S-109 SCALE- 1:10



03 | GR FLR RING BEAM SEC WITH ELEMENT SEC-B
S-109 | REF S-109 SCALE- 1:40

NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. GRADE OF REBAR = fy= 60 ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONCRETE f'c' =4000 psi =280 Kg/cm2

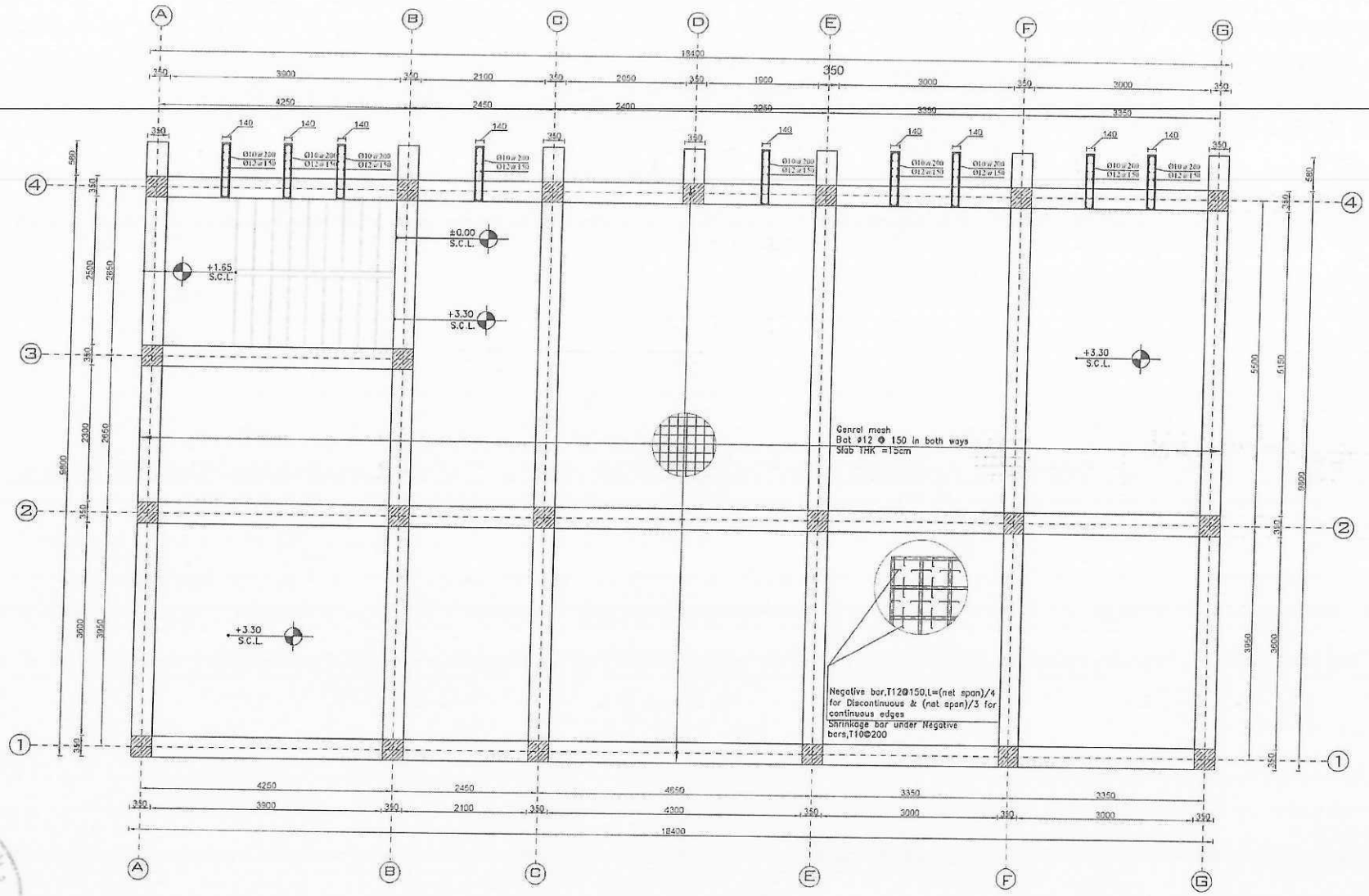
Designed by: Rahmatullah Murad
Drawn by: Rahmatullah Murad
Checked by:
Approved by:

Submission Description: For Tender
Date: 14/03/2022
Contract No:
Contract Date:
Paper Size: A3

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE
DAFGHAN WASHBURY SHIRKAT

Sheet Reference Number
S-109

Director



01 FIRST FLOOR SLAB REINF LAOUT (+3.30M LEVL)
S-110 REF SCALE-1:35

NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED
2. GRADE OF REBAR = fy= 60 Ksi = 4200 kg/cm2
3. GRADE OF REINFORCED CONC = fc =4000 psi

Designed by: Rahullah Wurdak
Drawn by: Rahullah Wurdak
Checked by:

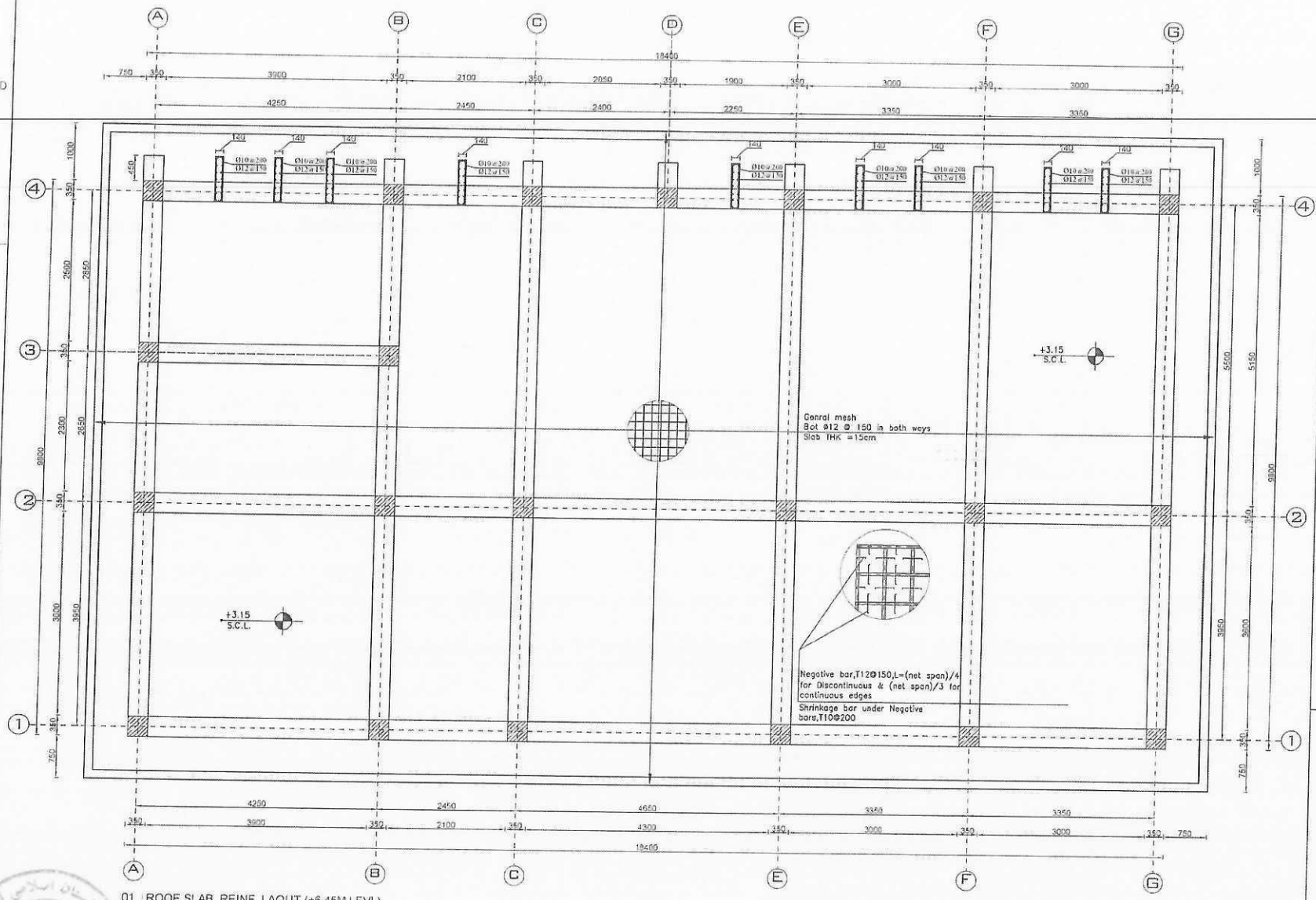
No	Submission Description	Date
01	For Tender	1402/08/20

Contract No
Contract Date
Fiscal Year
Drawn Date
Revision
File Date
Scale

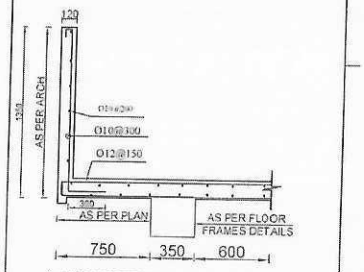
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POSTAL OFFICE BUILDING
FIRST FLOOR SLAB REINF LAOUT

Sheet Reference Number
S-110

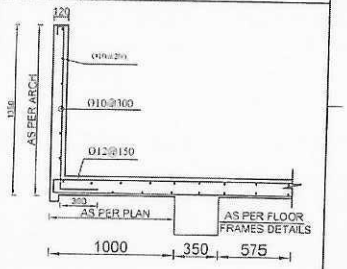
Directorate



01 ROOF SLAB REINF LAOUT (+6.45M LEVL)
S-111 REF SCALE-1:35



08 ROOF PARAPET DETAIL-A
S-111 REF SCALE-1:35



08 ROOF PARAPET DETAIL-B
S-111 REF SCALE-1:35

NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. GRADE OF REBAR = fy= 60 Ksi =4200 Kg/cm2
3. GRADE OF REINFORCED CONC. = fc =4000 psi =280 Kg/cm2

Designed by: Rahullah Nurani
Drawn by: Rahullah Nurani

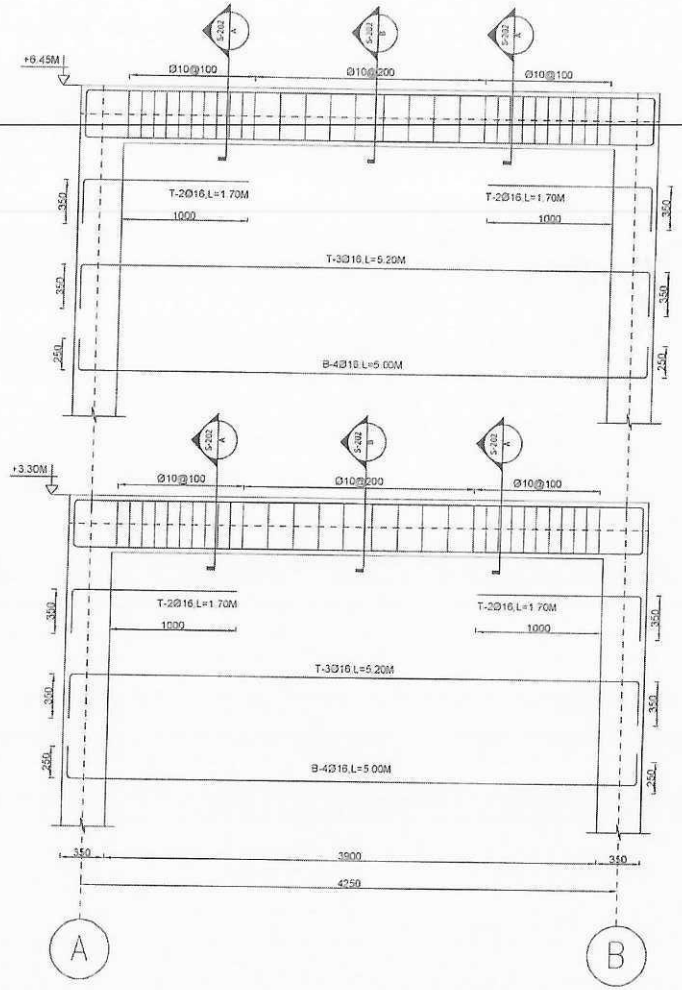
No	Submission Description	Date
02	For review	4/20/2022

Contract No
Contract Date
Paper Size: A3

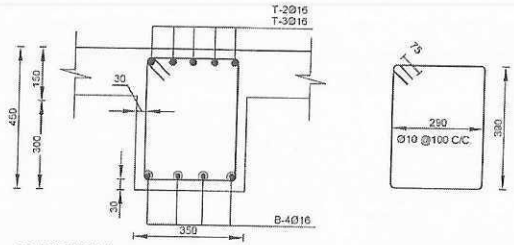
Municipal Affairs Office
Development Plan

Sheet Number

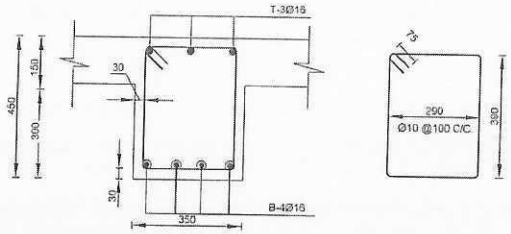
Municipal Affairs Admin Directorate



01 FRAM -2 REIN -(450X350) LAYOUT
S-302 SCALE 1:25



02 SECTION -A
SCALE 1:5



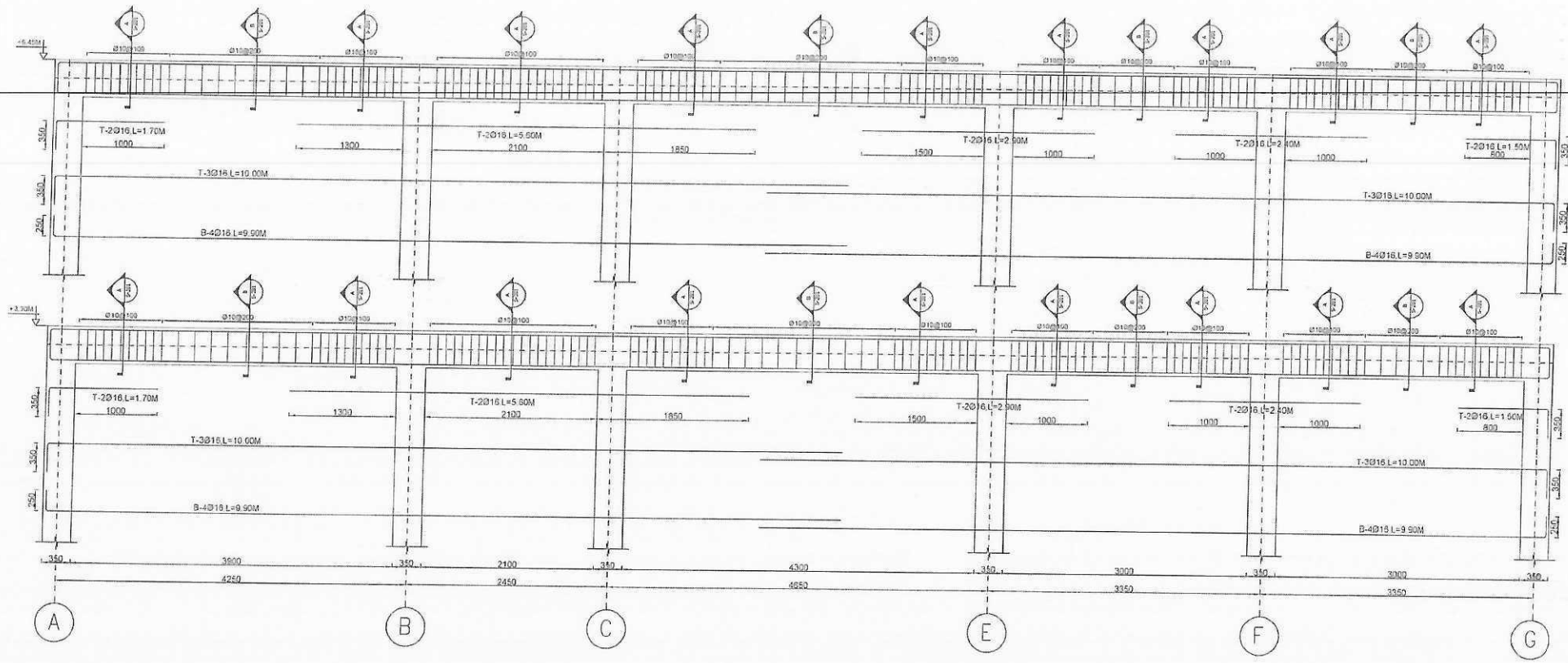
03 SECTION -B
SCALE 1:5

NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC = fc =4000 psi =280 Kg/cm2

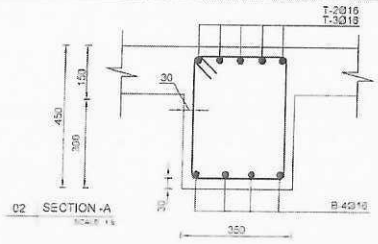
Designed by: Rahman Murad
Drawn by: Rahman Murad
Directors By: Head of Department
Approved by:
Submission Description: For Tender
Date: 1402/08/02
Contract No:
Contract Date:
Fiscal Year: 1402-1404
Drawn Date: 1402
Paper Size: A3
Full Size: 1402/08/15
Scale: 1:1

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
FRAME 2 REIN (450X350) LAYOUT

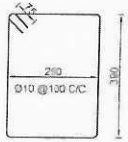
Sheet Reference Number
S-302

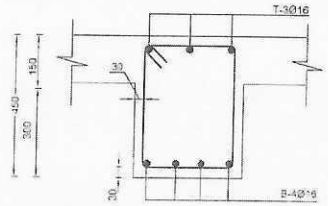


01 FRAM -1 REIN -2(450X350) LAYOUT
S-201 SCALE 1:25

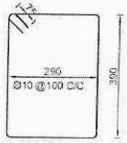


02 SECTION -A





03 SECTION -B



NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC. = fc =4000 psi =280 Kg/cm2

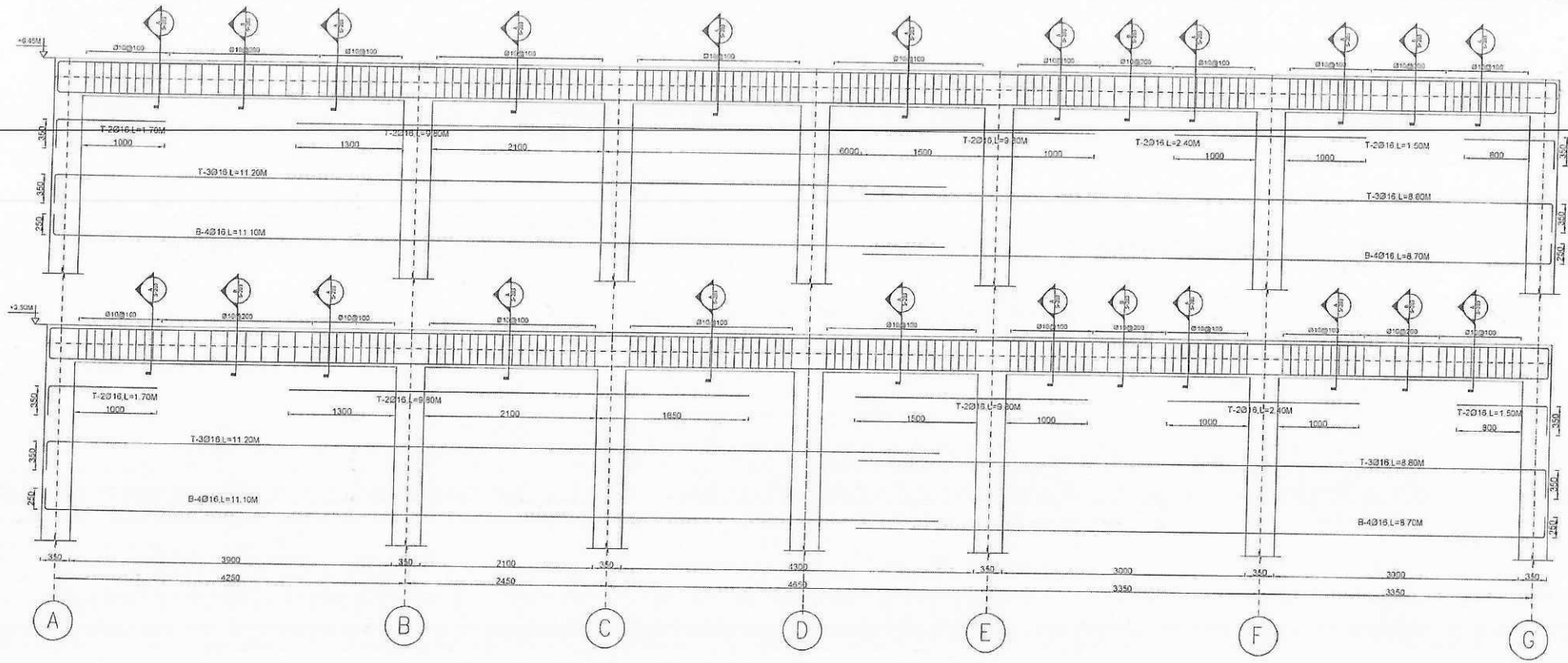
Designed by: Rahullah Murad
Drawn by: Rahullah Murad
Checked by:
Head of Department:
Approved by:

No	Submission Description	Date
00	For Tender	14/09/2020

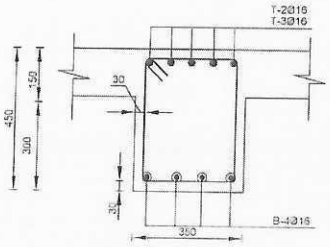
Contract No
Contract Date
Fiscal Year
Drawing Code
Revision
Issue Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING

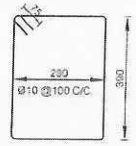
Sheet Reference Number

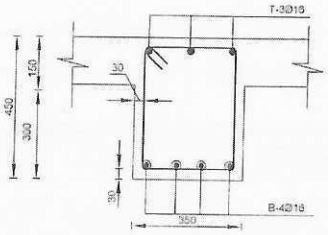


01 FRAM -3 REIN -(450X350) LAYOUT
SCALE 1:25

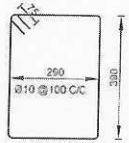


02 SECTION -A
SCALE 1:5





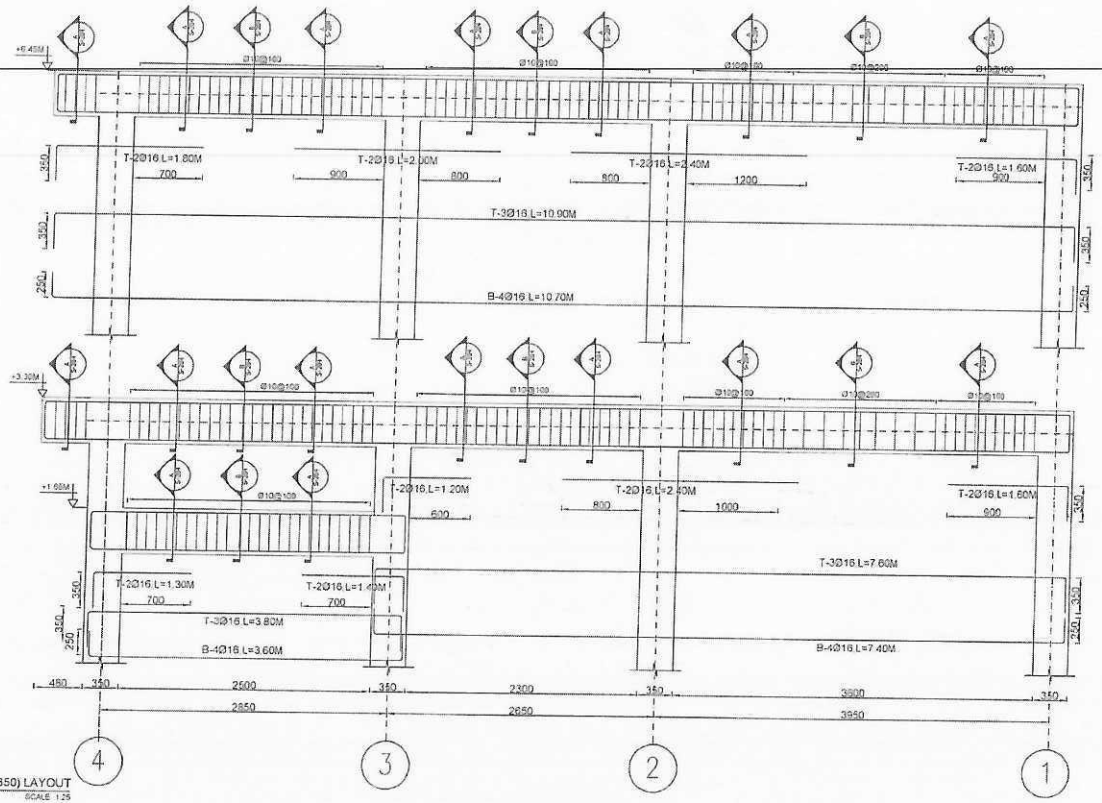
03 SECTION -B
SCALE 1:5



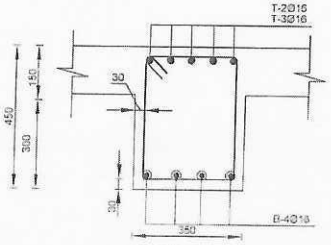
NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC = fc =4000 psi

Designed by	Rahullah Murad	No	Submission Description	Date	Contract No	AFGHAN POST TYPICAL POST OFFICE	Sheet Reference Number
Drawn by	Rahullah Murad	01	For Tender	1402/09/20	Contract Date	ALL PROVINCE OF AFGHANISTAN	
Checked By					Project Year	1402/1444	
Approved By					Project Code		
					Project Date		
					Project Status		
					Email		

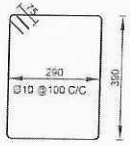
POST OFFICE BUILDING

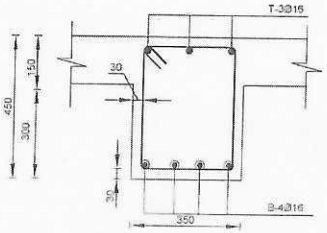


01 FRAM -4 REIN -(450X350) LAYOUT
SCALE 1:25

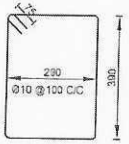


02 SECTION -A





03 SECTION -B



NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC. = fc =4000 psi =280 Kg/cm2

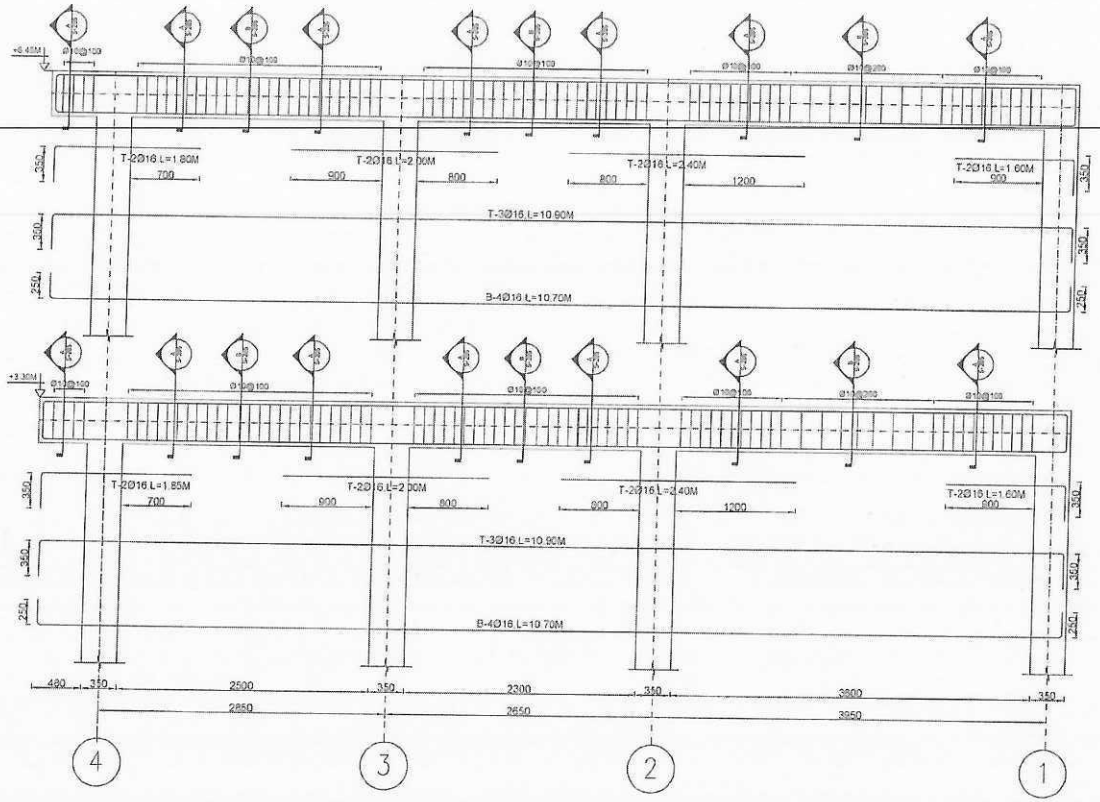
Designed by	Rahullah Murad	No.	Submission Description	Date
Drawn by	Rahullah Murad	01	For Tender	1402/08/20
Checked By				
Approved By				

Contract No
Contract Date

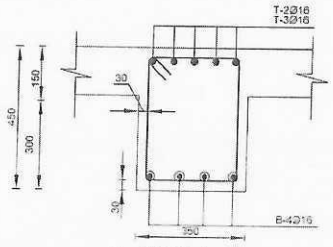
AFGHAN POST TYPICAL POST OFFICE
PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FRAME 4 REIN (450X350) LAYOUT

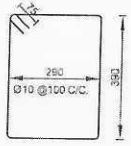
Sheet Number

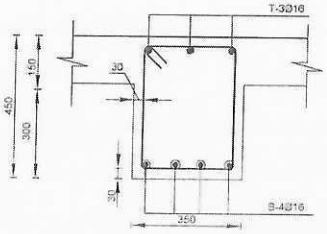


01 FRAM -5 REIN -(450X350) LAYOUT
B-355 SCALE 1:25

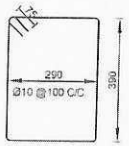


02 SECTION -A
SCALE 1:5





03 SECTION -B
SCALE 1:5



NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED
2. GRADE OF REBAR = fy= 60 Ksi = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC. = fc =4000 psi =280 Kg/cm2

Directorate

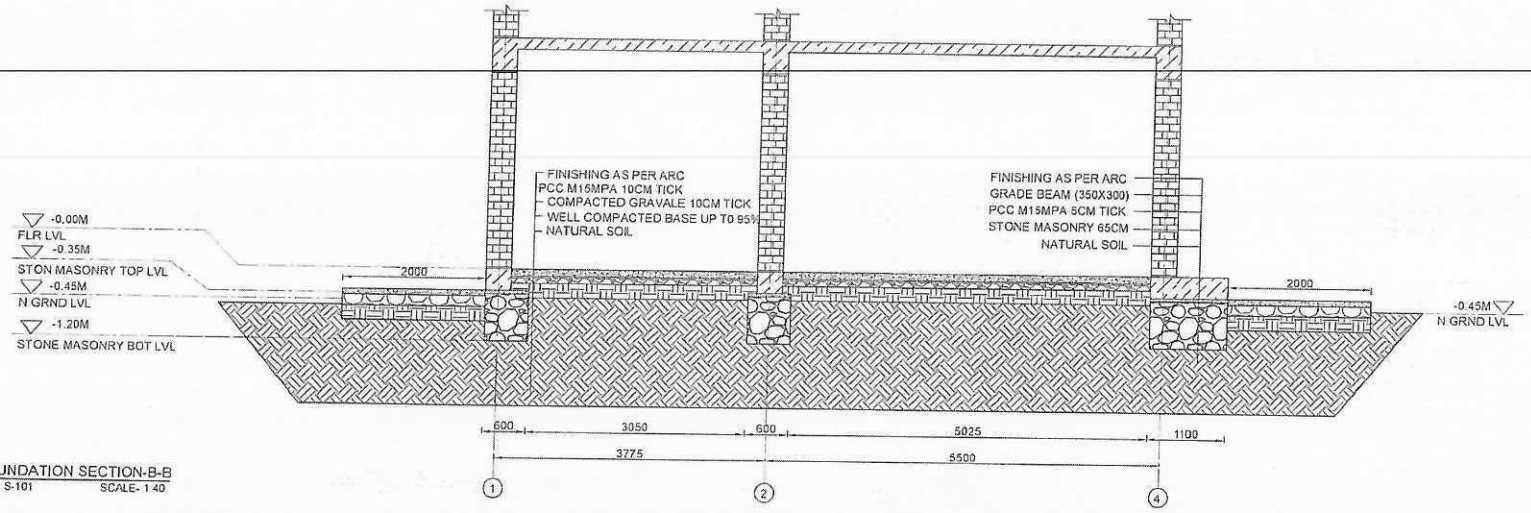
Designed by	Rahullah Wardak		
Drawn by	Rahullah Wardak		
Checked by			
Approved by			

No	Submission Description	Date
01	For Tender	14/08/2023

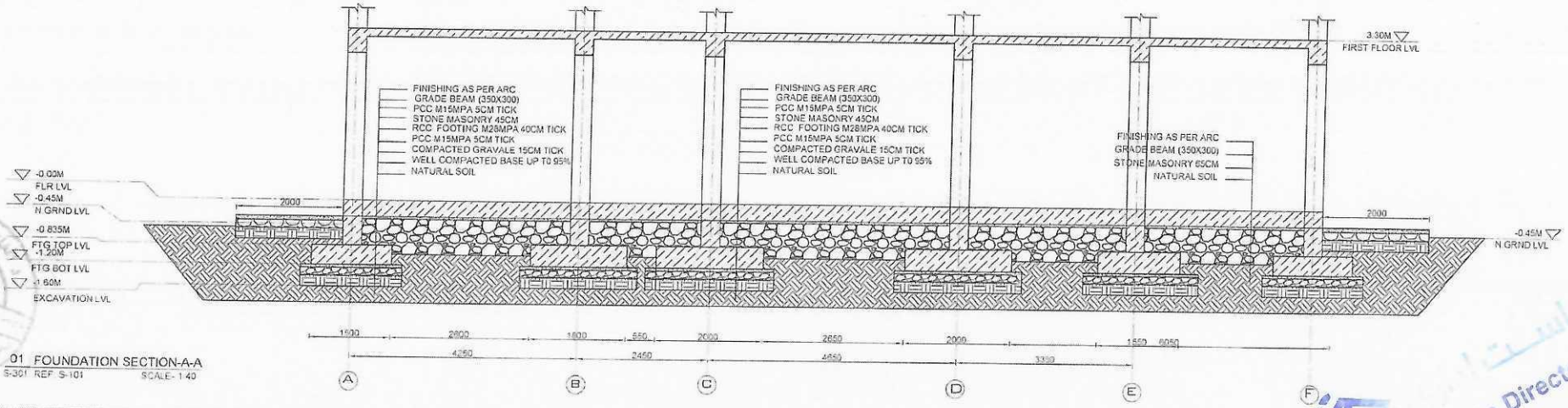
Contract No
Contract Date
Trace Year 1402/1444
Drawn Date 2023
Paper Size A3
Plot Date 14/08/2023
Scale 1:1

AFGHAN POST TYPICAL POST OFFICE
IN AFGHANISTAN
POST OFFICE BUILDING
FRAM AREA = 1600SQ.METRE

Shell Reference Number



02 | FOUNDATION SECTION-B-B
S-301 | REF. S-101 SCALE- 1:40



01 FOUNDATION SECTION-A-A
S-301 | REF. S-101 SCALE- 1:40

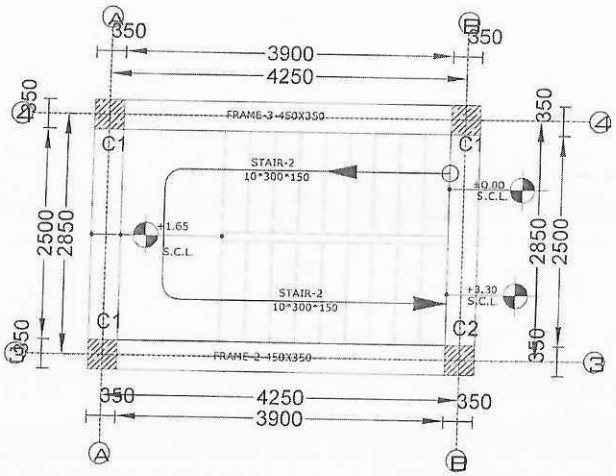
Ver	Submission Description	Date
01	For Tender	1400/08/00

Designed by: Rahmatullah Murad
Drawn by: Rahmatullah Murad

Contract No
Contract Date
Paper Size: A3

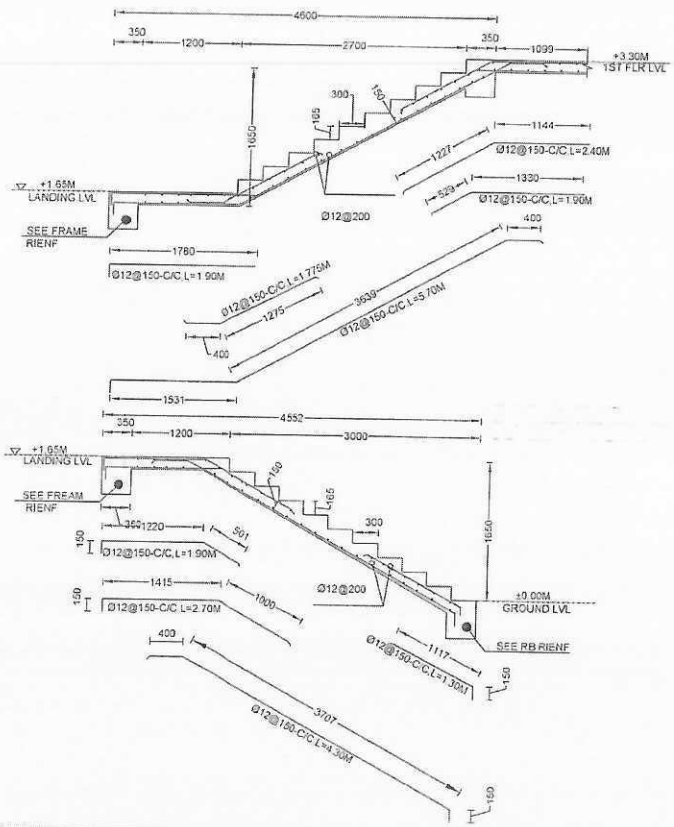
AFGHAN POSTAL SERVICE, POST OFFICE
ALL PROVINCE OF AFGHANISTAN

Sheet Reference Number



01 | STAIR-1 PLAN

S-501 | REF: S-107 SCALE- 1:60



02 | SECTION OF STAIR-1 REINF DETAILS

S-501 | REF: S-501 SCALE- 1:60

Designed by: Rahullah Murad

Drawn by: Rahullah Murad

Submission Description: For Tender

Date: 14/12/2022

Contract No.

Contract Date

Fiscal Year: 1401-1402

Drawn Date: 12/12/2

Paper Size: A1

File Date: 14/12/2022

Date:

AFGHAN POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING

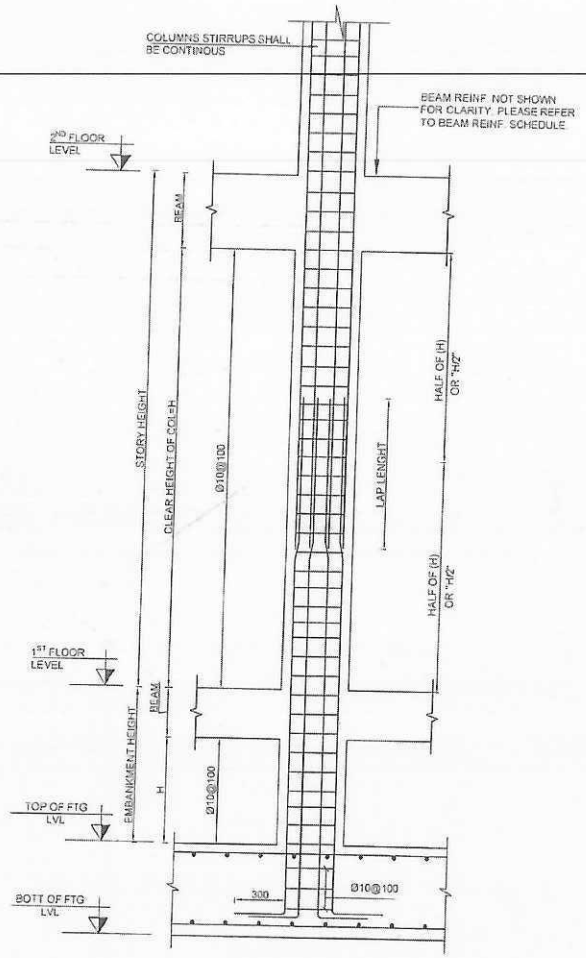
Sheet Reference Number

S-501

SCHEDULE OF COLUMNS REINFORCEMENTS

STORY LEVEL	STORY HEIGHT	C1 "16" Unit	C2 "5" Unit		STIRRUPS
FIRST FLOOR +3.30	+3.30m	350 / 350 / 40 / 8Ø16 / Ø10 @ 100 C/C Alternatively Fy=60000psi Fc=4000psi	350 / 350 / 40 / 10Ø16 / Ø10 @ 100 C/C Alternatively Fy=60000psi Fc=4000psi		Ø10@100C/C L=1.23m (270, 270); 1Ø10@100C/C L=0.45m (270); 1Ø10@100C/C L=0.45m (270); 1Ø10@100C/C L=0.95m (110, 270) COLUMN(350x350mm)
SECOOND FLOOR +3.15	+6.45m	350 / 350 / 40 / 8Ø16 / Ø10 @ 100 C/C Alternatively Fy=60000psi Fc=4000psi	350 / 350 / 40 / 10Ø16 / Ø10 @ 100 C/C Alternatively Fy=60000psi Fc=4000psi		

01 COLUMN REINF SCHEDULE
S-601 REF S-106 SCALE- 1:20



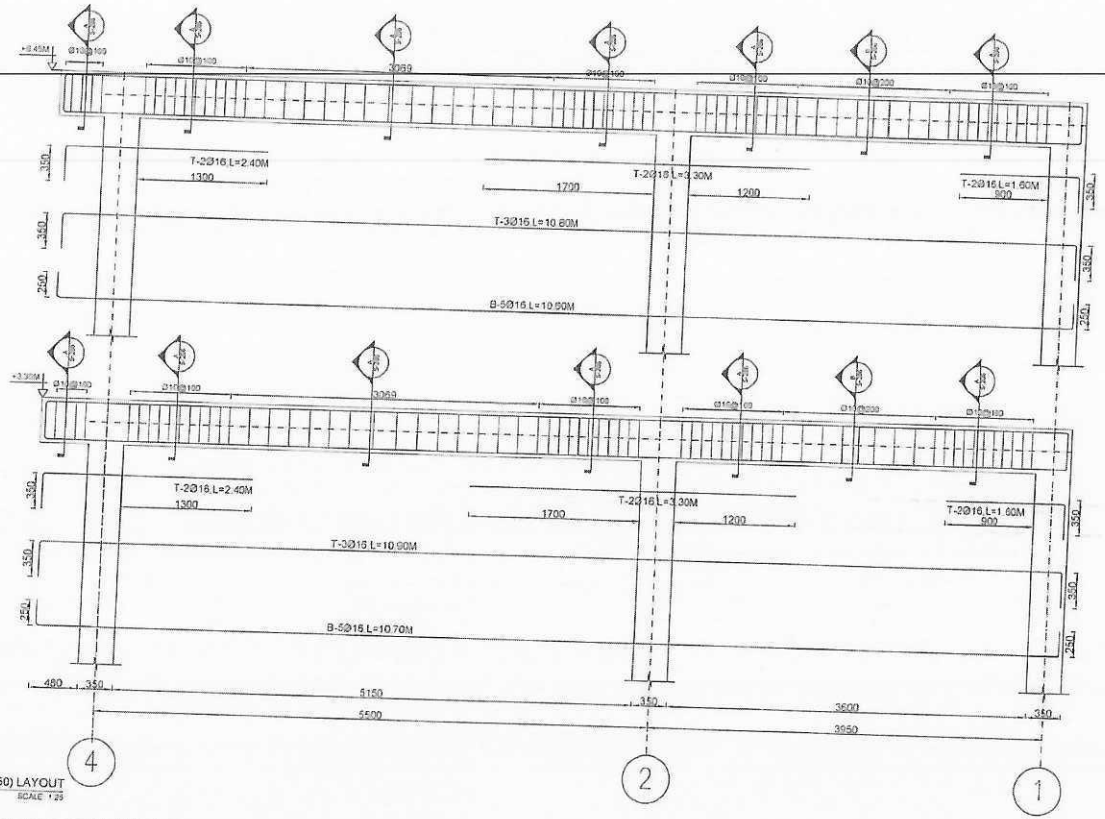
TYPICAL COLUMN BARS ARRANGEMENT

02 TYPICAL COLUMN REINF ARRANGEMENT
S-601 REF SCALE- 1:20

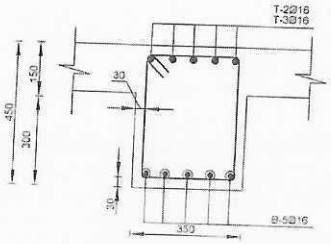
Designed by	Rahman Murad	No	Submission Description	Date	Contract No
Drawn by	Rahman Murad	01	For Tender	10/06/22	Contract Date
Checked by					Drawn Date
Head of Department					Floor Plan
Approved by					For Date
Year Completed					Scale

Project: PO BOX TYPICAL POST OFFICE
AL HOMRANIYA, AL HASSA

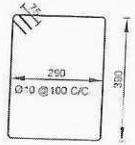
Sheet Reference Number

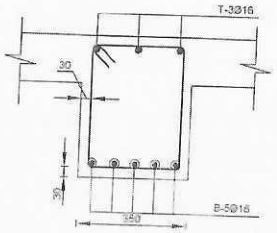


01 FRAM -6 REIN -(450X350) LAYOUT
SCALE 1:25

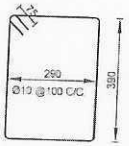


02 SECTION -A
SCALE 1:5





03 SECTION -B
SCALE 1:5



NOTE
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. GRADE OF REBAR = fyr 60 Ks = 4200 Kg/cm2
3. GRADE OF REINFORCED CONC = fc =4000 lbs =280 Kg/cm2

Designed by: Rahmatullah Murad
Drawn by: Rahmatullah Murad
Checked by:
Head of Department:
Contract No:
Contract Date:
Paper Size: A3
Sheet Reference Number:

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
FRAME-6 REINFORCED LAYOUT

امارت اسلامی افغانستان

معاونیت مالی و اداری

ریاست طرح و دیزاین امور ساختمانی

نقشه های مخانیک

اعمار پسته خانه های تیپیک شرکت دولتی افغان پست افغانستان

INDEX SHEET

SHEET No.	FILE NAME	DRAWING TITLES	SCALE
	COVER	COVER	NTS
	G-001	INDEX SHEET	NTS
		MECHANICAL	
	M-100	MECHANICAL GENERAL NOTE, ABBREVIATIONS, SYMBOLS, AND LEGEND	NTS
	M-101	GROUND FLOOR HVAC PLAN AND FIRE EXTINGUISHER PLAN	1:100
	M-102	FIRST FLOOR HVAC PLAN AND FIRE EXTINGUISHER PLAN	1:100
	M-501	MECHANICAL DETAILS	NTS
	M-502	MECHANICAL TYPICAL DETAILS	NTS
	M-600	MECHANICAL SCHEDULES	NTS

SHEET No.	FILE NAME	DRAWING TITLES	SCALE

Designed by: M Fahim Waziri
Drawn by: M Fahim Waziri

No	Submission Description	Date
01	For Tender	14/03/1400

Contract No
Contract Date
Fiscal Year: 1400-1404
Drawing Scale: AS
Paper Size: A3
File Date: 1400/03/14

Sheet Reference Number

Director

SPLIT UNIT GENERAL NOTES:

1. AS THE CURRENT PROJECT WILL BE IMPLEMENTED IN DIFFERENT PROVENCES OF AFGHANISTAN, THUS, THE HAP CALCULATION ASSUMED APPROXIMATELY BASED ON BAMYAN PROVINCE .
2. SPLIT UNIT SHALL BE PROVIDED WITH CONDENSING UNIT(CU) AND CONTROLLED BY REMOTE CONTROL SHALL BE MOUNTED IN WALL 1.5m FROM FINISHED FLOOR.
3. CONDENSING UNIT (OUT DOOR UNIT) SHALL BE MOUNTED ON A BRACKET AS SHOWN ON DETAIL SHEET M-502 OR ON THE ROOF.
4. THE REMOTE CONTROLLER CAN BE ATTACHED TO A WALL OR PILLAR BY USING A REMOTE CONTROLLER HOLDER (NOT SUPPLIED, PURCHASED SEPARATELY)
5. ALL REFRIGERANT LIQUID,VAPOR,AND DRAIN PIPING WILL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
6. SPLIT UNIT(INDOOR UNIT) SHALL CONSIST OF A DX EVAPORATOR COOLING COIL, BLOWER SUPPLEMENTAL ELECTRIC HEATER ELEMENTS AND WASHABLE FILTER ALL MOUNTED IN A HOUSING FINISHED FOR EXPOSED INSTALLATION.
7. THE CONDENSING UNIT WILL CONTAIN COMPRESSOR, CONDENSING COIL, AND ALL INTERNAL CONTROL/FITTINGS COMPLETE TO INCLUDE A WEATHERIZED HOUSING.

SYMBOLS

- :- AC SPLIT INDOOR UNIT
- :- AC SPLIT CONDENSING OUTDOOR UNIT
- :- EXHAUST HOOD
- :- WINDOW MOUNTED EXHAUST/SUPPLY FAN
- :- FIR EXTINGUISHER

ABBREVIATION

AC :- AIR CONDITIONER
CU :- CONDENSING UNIT
DWG :- DRAWING
EF :- EXHAUST FAN
SU :- SPLIT UNIT
FE :- FIR EXTINGUISHER
RC :- REMOTE CONTROL

Designed by	M Farian Wasiq		
Drawn by	M Farian Wasiq		
Checked by Head of Department			
Authorized by Proj. Director			

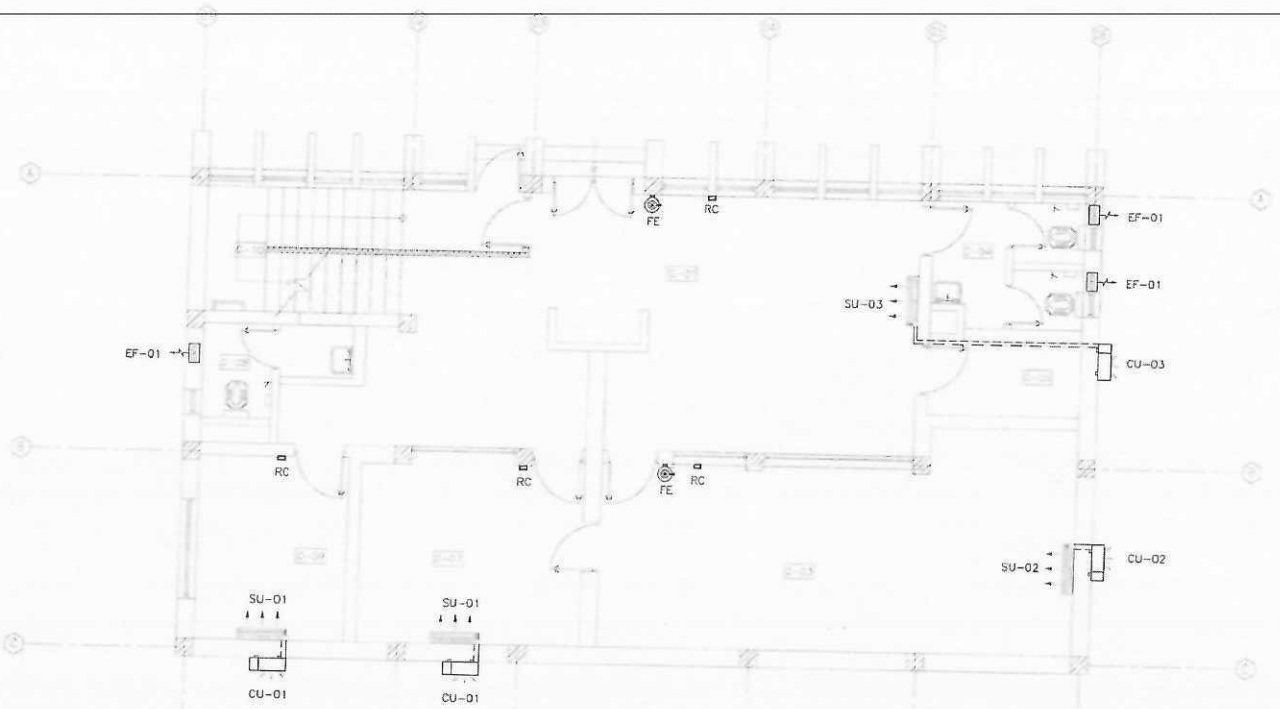
No	Submission Description	Date
01	For Tender	1402/09/20

Contract No:
Contract Date:
Fiscal Year: 1402/1403
Drawn Date: NR
Paper Size: A3
Plot Date:
Scale: N.T.S

AFGHAN POST OFFICE
ISLAMIC REPUBLIC OF AFGHANISTAN
POST OFFICE BUILDING
MECHANICAL GENERAL NOTES
ABBREVIATIONS, SYMBOLS, LEGENDS

Sheet Reference Number: M-100

NOTE:
1- ALL SPLIT UNITE DRAIN PIPES SHALL BE COVERED BY CONDUIT AND CONNECTED TO NEAREST DRAINAGE.



01	GROUNG FLOOR HVAC AND FIRE EXTINGUISHER PLAN
M-101	REF. SCALE: 1:100

GRAPHIC SCALE 1:100 (M)

Designed by	M.Faram Wasiq	No	Submission Description
Drawn by	M.Faram Wasiq	01	For Tender
Checked by			
Field of Application			
Approved by			
Work Commencing			

Date: 14/02/2020

Contract No:
Contract Date:
Floor Plan: M02Plans
Drawn Code: MS
Paper Size: A3
Print Date:
Scale:

AFGHAN POST OFFICE
SARAYAL PROVINCE, AFGHANISTAN

POST OFFICE BUILDING
GROUND FLOOR HVAC AND FIRE EXTINGUISHER PLAN

Sheet Reference Number

NOTE:
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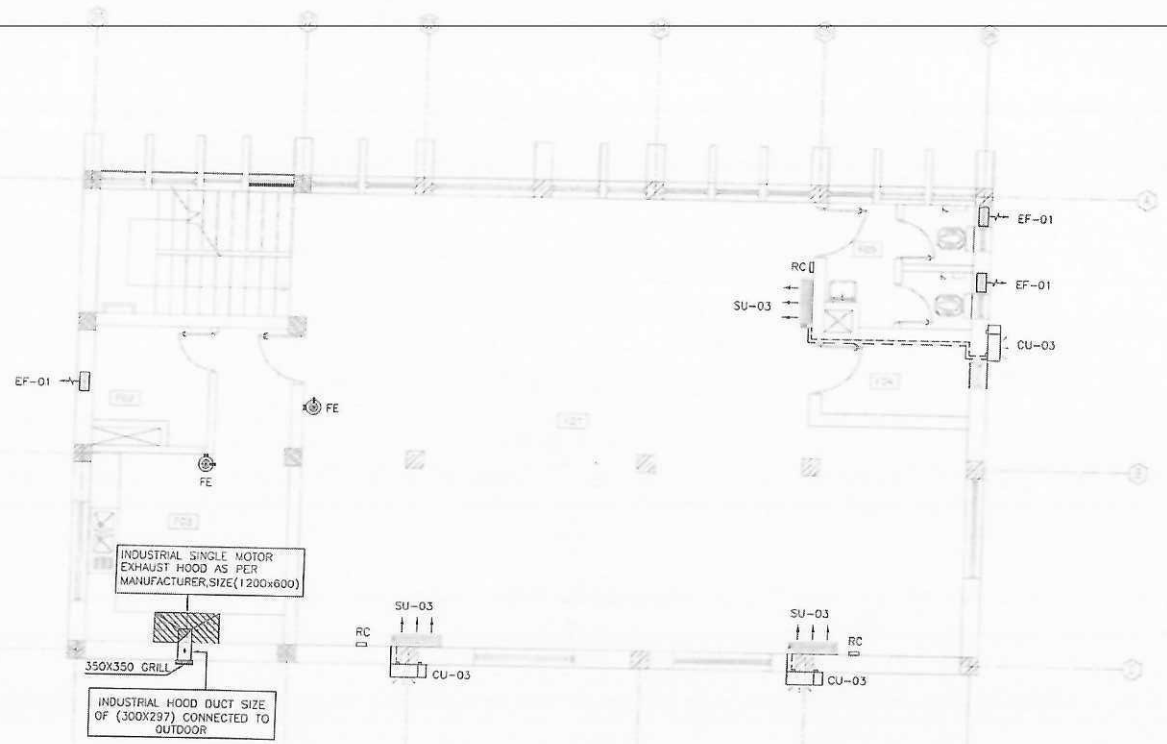


01	FIRST FLOOR HVAC AND FIRE EXTINGUISHER PLAN
M-102	REF. SCALE: 1:100

0 0.5 1.0 2.0 3.0 4.0 5.0
GRAPHIC SCALE 1:100 (M)

Designed by: M Farhan Waleq
Drawn by: M Farhan Waleq
Checked By:
Approved by:

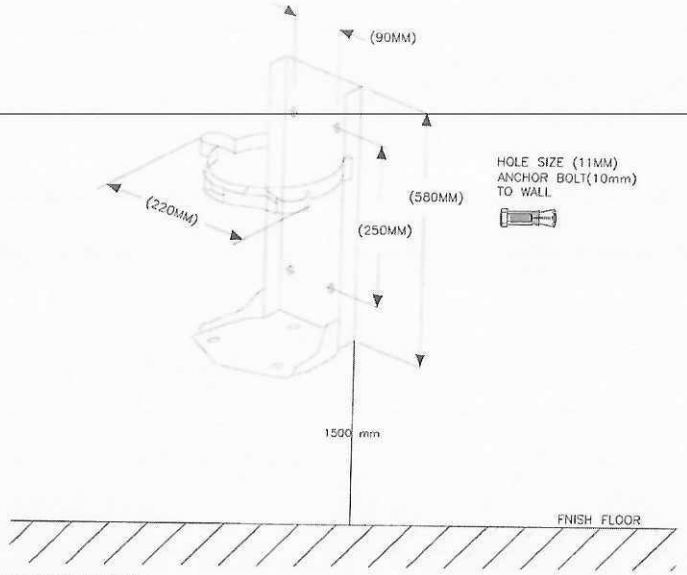
No	Submission Description	Date
01	For Tender	1400/08/05

Contract No:
Contract Date:
Fiscal Year: 1397-1444
Drawn Code: V6
Paper Size: A0
Print Date: 1400/08/13
Scale: 1:100

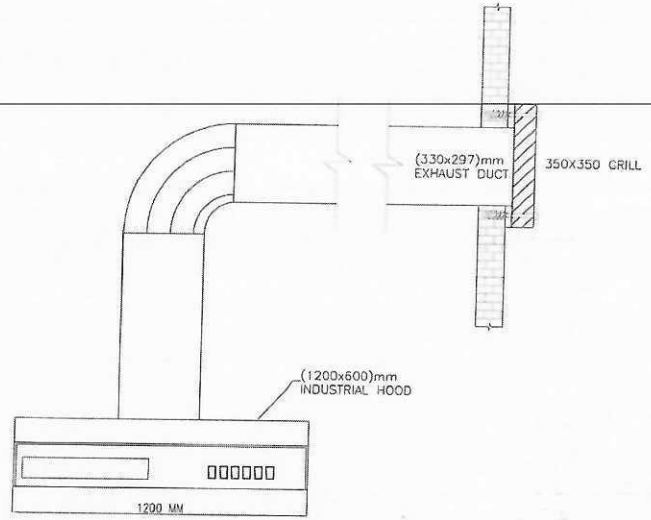
AFGHAN POST OFFICE
BAMYAN PROVINCE AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR HVAC AND FIRE EXTINGUISHER PLAN

Sheet Number: M-102

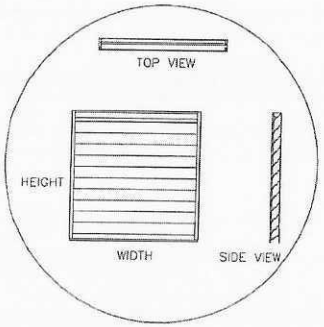


01 FIRE EXTINGUISHER BRACKET DETAILS
M-502 REF. SCALE: NTS



03 INDUSTRIAL HOOD EXHAUST FAN TYP.DETAIL
M-501 REF. SCALE: NTS

02 FIRE EXTINGUISHER CYLINDER .
M-502 REF. SCALE: NTS



04 INDUSTRIAL HOOD GRILL DETAIL
M-501 REF SCALE: NTS

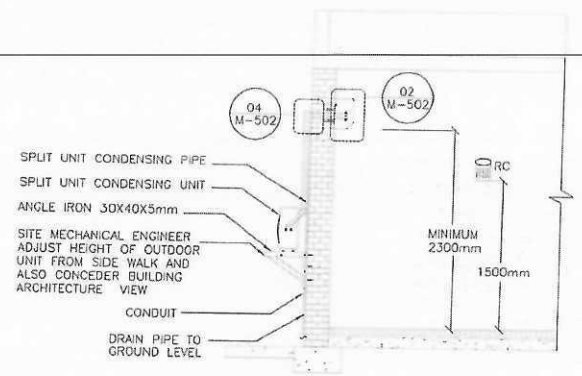
Designed by M.Fahim Wasiq
Drawn by M.Fahim Wasiq
Checked by
Head of Department
Approved by

No	Submission Description	Date
01	For Tender	4/20/2020

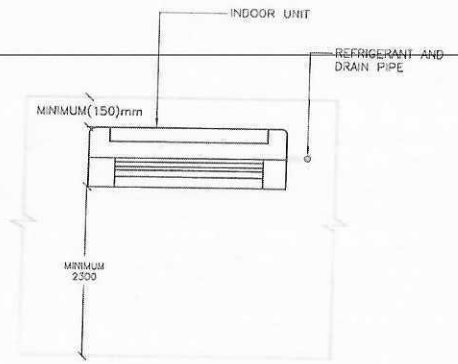
Contract No.
Contract Date
Partial Year
Drawn Date
Paper Size A3
First Date
Scale

AFGHAN POST OFFICE
BAMYAN PROVINCE AFGHANISTAN
POST OFFICE BUILDING
MECHANICAL DETAILS

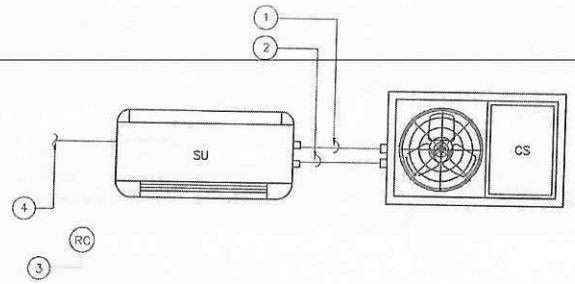
Sheet Reference Number
M-501



01 | INDOOR & OUTDOOR CONNECTION DETAIL
M-502 | REF. SCALE: NTS

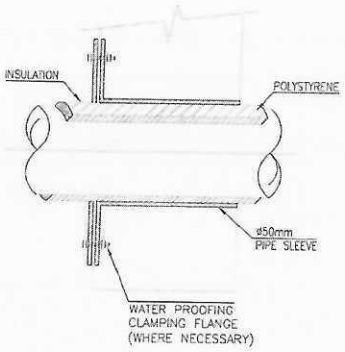


02 | SPLIT UNIT ELEVATION INSTALLATION
M-502 | REF. SCALE: NTS

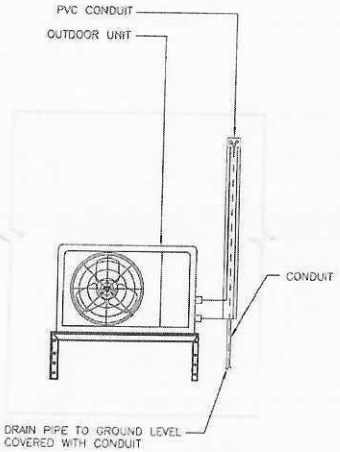


NOTES:
① RETURN GAS REFRIGERANT COPPER PIPE
② SUPPLY LIQUID REFRIGERANT COPPER PIPE
③ WALL MOUNTED REMOTE CONTROL
④ DRAIN PIPE

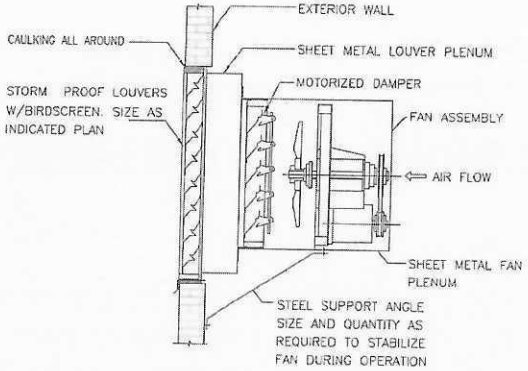
03 | SPLIT UNIT INDOOR & OUTDOOR DETAIL
M-502 | REF. SCALE: NTS



04 | SPLIT UNIT PENETRATION DETAIL
M-502 | REF. SCALE: NTS



05 | CONDENSING UNIT INSTALLATION DETAILS
M-502 | REF. SCALE: NTS



06 | WALL TYPE EXHAUST FAN TYP.DETAIL
M-502 | REF. SCALE: NTS

Designed by	M Fahim Waeiq	No.	Submission Description	Date
Drawn by	M Fahim Waeiq	01	For Tender	14/2/2020
Checked By				
Approved By				

Contract No.
Contract Date
Fiscal Year
Drawn Date
Paper Size
Plot Date
Scale

AFGHAN POST OFFICE
BAMYAN PROVINCE AFGHANISTAN
POST OFFICE BUILDING
MECHANICAL TYPICAL DETAILS

Sheet Reference Number
M-502

CONDENSING UNITS SCHEDULE (CU)

SYMBOL	UNIT NUMBER	AMBIENT TEMP C°	WEIGHT	ELECTRICAL DATA			GROSS DIMENSION(MM)			REMARKS
				VOLTS	PHASE	HERTZ	WIDTH	HEIGHT	DEPTH	
	CU-01	46	37.5	220	1	50	926	384	640	GALVANIZED MILD STEEL EPOXY POLYESTER POWDER CASING
	CU-02	46	37.5	220	1	50	926	384	640	GALVANIZED MILD STEEL EPOXY POLYESTER POWDER CASING
	CU-03	46	56.5	220	1	50	1023	911	413	GALVANIZED MILD STEEL EPOXY POLYESTER POWDER CASING

INDUSTRIAL EXHAUST HOOD

SYMBOL	NO. MOTOR	EXTERNAL DIMENSIONS (mm)	MAXIMUM AIR FLOW (m^3/h)	ELECTRICAL DATA			
				WATT	VOLTS	PHASE	HERTZ
☒	1	(1200x600x305)	807	292	220	1	50

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (SU)

SYMBOL	UNIT NUMBER	HEATING CAPACITY TOTAL (BTU/H)	COOLING CAPACITY TOTAL (BTU/H)	ELECTRICAL DATA					POWER	SOUND LEVEL HIGH/LOW	AIR FLOW	AMP	REFRIGERANT TYPE	GROSS DIMENSION(MM)		
				VOLTS	PHASE	HERTZ	WEIGHT (KG)		WATT	dBA	CMH	A	R	WIDTH	HEIGHT	DEPTH
							IN DOOR	OUT DOOR								
	SU-01	10918	8530	220	1	50	12.5	37.5	780	38/16	Auto	3.8	R410a	886	335	317
	SU-02	13648	11942	220	1	50	12.8	37.5	1050	40/16	Auto	5	R410a	886	335	317
	SU-03	27296	23202	220	1	50	18.5	56.5	2280	43/26	Auto	10.8	R410a	1123	354	384

NOTE :
CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL THIS AIR CONDITIONER OR EQUIVALENT, BUT COOLING AND HEATING LOAD DO NOT LESS THAN THIS SCHEDULE.

WALL/WINDOW AXIAL FANS SCHEDULE (EF)

UNIT NUMBER	AIR QUANTITY		STATIC PRESSURE	ELECTRICAL DATA				INTERLOCK WITH	DRIVE TYPE	WEIGHT (kg)	FIXING AREA (MM)	REMARK
	L/S	CMH	Pa	WATT	VOLTS	PHASE	HERTZ					
EF-01	56	200	37	24	230	1	50	–	AXIAL	1.7	195X195	PULL CORD SWITCH VERSION

FIRE EXTINGUISHER (FE)

TYPE	DIAMETER (mm)	HEIGHT (mm)	CAPACITY (Kg)	APPROXIMATE FULL WEIGHT (kg)	WORKING TEMPERATURE RANGE	WORKING PRESSURE(bar)	TEST PRESSURE(bar)	APPROXIMATE DISCHARGE RANGE(m)	FIRE CLASS
STORED PRESSURE TYPE	178	587	9	13.1	-20 to +60 C	12	25	6-7.5	A,B,C +ELECTRICAL

Designed by: M Fahim Waziri
Drawn by: M Fahim Waziri
Checked by
Head of Department

No.	Submission Description	Date
01	For Tender	14/02/2022

Contract No
Contract Date
Fiscal Year
Drawn Date
Paper Size
Plot Date
Scale

AFGHAN POST OFFICE
BAGHLAN PROVINCE AFGHANISTAN
POST OFFICE BUILDING
MECHANICAL SCHEDULES

Sheet Reference Number
M-03

Directorate

INDEX SHEET

SHEET No.	FILE NAME	DRAWING TITLES	SCALE
	COVER	COVER	NTS
	G-001	INDEX SHEET	NTS
		MECHANICAL	
	M-100	MECHANICAL GENERAL NOTE, ABBREVIATIONS, SYMBOLS, AND LEGEND	NTS
	M-101	GROUND FLOOR HVAC PLAN AND FIRE EXTINGUISHER PLAN	1:100
	M-102	FIRST FLOOR HVAC PLAN AND FIRE EXTINGUISHER PLAN	1:100
	M-501	MECHANICAL DETAILS	NTS
	M-502	MECHANICAL TYPICAL DETAILS	NTS
	M-600	MECHANICAL SCHEDULES	NTS

SHEET No.	FILE NAME	DRAWING TITLES	SCALE

No	Submission Description	Date
01	For Tender	14/09/2022

Contract No

Contract Date

Fiscal Year 1401/1402

Drawn Date 1/2

Plotted Date 12

Plot Size A0/20x15

Scale 1:1.5

Designed by M Farim Wasiq

Drawn by M Farim Wasiq

Checked By

Head of Department

Approved By

Vice Commissioner

AFGHAN POST OFFICE

AUALABAD PROVINCE, AFGHANISTAN

POST OFFICE BUILDING

INDEX SHEET

Sheet Reference Number

G-001

Directorate

SPLIT UNIT GENERAL NOTES:

1. AS THE CURRENT PROJECT WILL BE IMPLEMENTED IN DIFFERENT PROVINCES OF AFGHANISTAN, THUS, THE HAP CALCULATION ASSUMED APPROXIMATELY BASED ON JALALABAD PROVINCE
2. SPLIT UNIT SHALL BE PROVIDED WITH CONDENSING UNIT(CU) AND CONTROLLED BY REMOTE CONTROL SHALL BE MOUNTED IN WALL 1.5m FROM FINISHED FLOOR.
3. CONDENSING UNIT (OUT DOOR UNIT) SHALL BE MOUNTED ON A BRACKET AS SHOWN ON DETAIL SHEET M-502 OR ON THE ROOF.
4. THE REMOTE CONTROLLER CAN BE ATTACHED TO A WALL OR PILLAR BY USING A REMOTE CONTROLLER HOLDER (NOT SUPPLIED, PURCHASED SEPARATELY)
5. ALL REFRIGERANT LIQUID,VAPOR,AND DRAIN PIPING WILL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
6. SPLIT UNIT(INDOOR UNIT) SHALL CONSIST OF A DX EVAPORATOR COOLING COIL, BLOWER SUPPLEMENTAL ELECTRIC HEATER ELEMENTS AND WASHABLE FILTER ALL MOUNTED IN A HOUSING FINISHED FOR EXPOSED INSTALLATION.
7. THE CONDENSING UNIT WILL CONTAIN COMPRESSOR, CONDENSING COIL, AND ALL INTERNAL CONTROL/FITTINGS COMPLETE TO INCLUDE A WEATHERIZED HOUSING.

SYMBOLS

- :- AC SPLIT INDOOR UNIT
- :- AC SPLIT CONDENSING OUTDOOR UNIT
- :- EXHAUST HOOD
- :- WINDOW MOUNTED EXHAUST/SUPPLY FAN
- :- FIR EXTINGUISHER

ABBREVIATION

AC :- AIR CONDITIONER
CU :- CONDENSING UNIT
DWG :- DRAWING
EF :- EXHAUST FAN
SU :- SPLIT UNIT
FE :- FIR EXTINGUISHER
RC :- REMOTE CONTROL

Designed by	M Fahim Wasiq		
Drawn by	M Fahim Wasiq		
Checked By Head of Department			
Approved by Vice Chancellor			

No	Submission Description	Date
01	For Tender	14/09/99

Contract No	
Contract Date	
Fiscal Year	1400/1401
Drawn Code	00
Paper Size	A3
Plot Date	
Scale	N.T.S

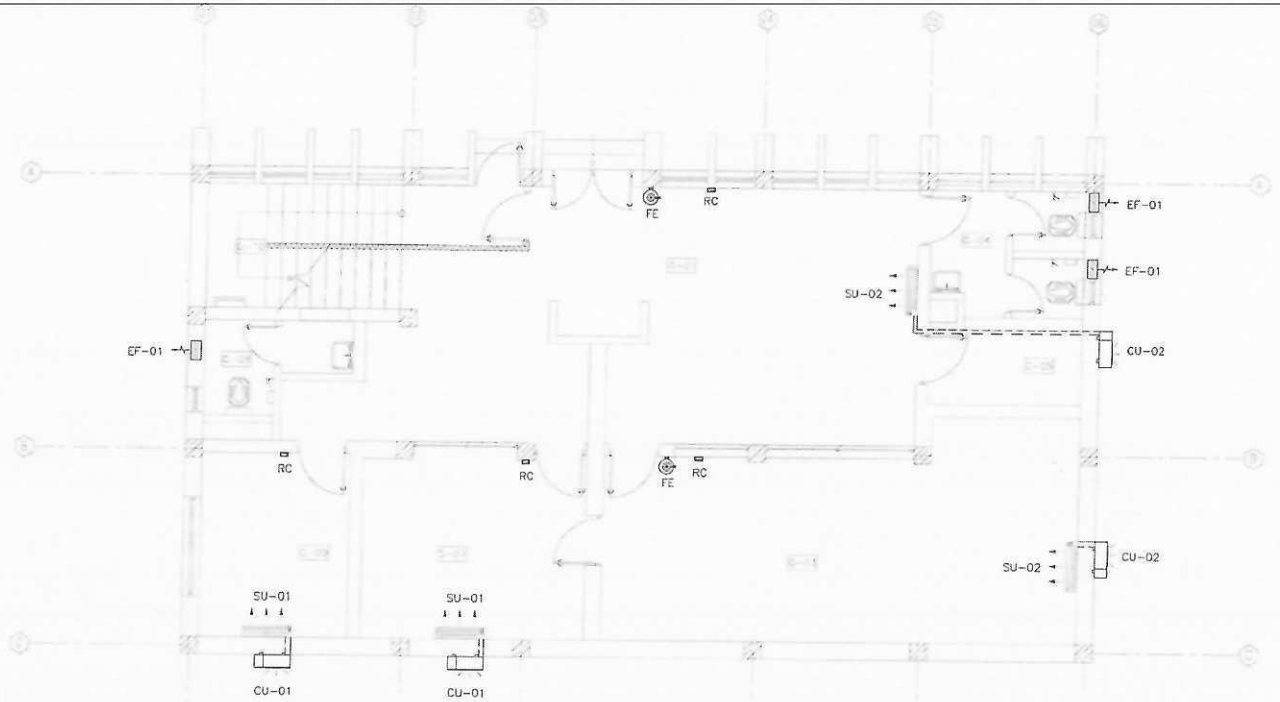
AFGHAN POST OFFICE
JALALABAD PROVINCE, AFGHANISTAN

POST OFFICE BUILDING
MECHANICAL GENERAL NOTES
ABBREVIATIONS, SYMBOLS, LEGENDS

Sheet Reference Number
M-501

Director

NOTE:
1- ALL SPLIT UNITE DRAIN PIPES SHALL BE COVERED BY CONDUIT AND CONNECTED TO NEAREST DRAINAGE.



01 GROUNG FLOOR HVAC AND FIRE EXTINGUISHER PLAN

M-101 REF SCALE 1:100

GRAPHIC SCALE 1:100 (M)

Designed by	M Fahim Waleg	No	Submission Description	Date
Drawn by	M Fahim Waleg	01	For Tender	1400/08/20
Checked By				
Approved By				

Contract No
Contract Date
Fiscal Year 1400-1404
Drawn Date
Paper Size A3
Print Date
Scale

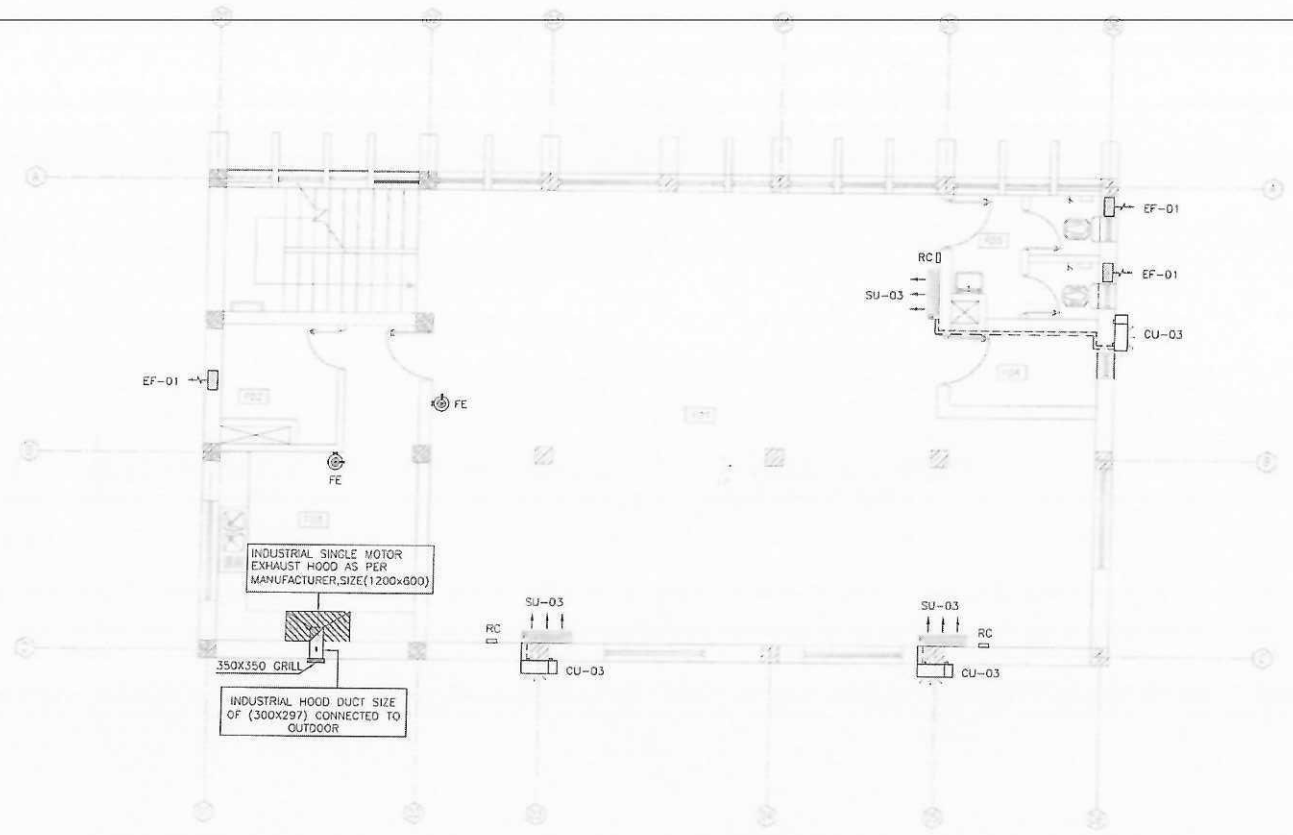
AFGHAN POST OFFICE
SALANG PROVINCE AFGHANISTAN

POST OFFICE BUILDING

GROUND FLOOR HVAC AND FIRE EXTINGUISHER PLAN

Sheet Reference Number

NOTE:
1- ALL SPLIT UNITE DRAIN PIPES SHALL BE COVERED BY CONDUIT AND CONNECTED TO NEAREST DRAINAGE.



01	FIRST FLOOR HVAC AND FIRE EXTINGUISHER PLAN
M-102	REF. SCALE: 1:100

0 0.5 1.0 2.0 3.0 4.0 5.0
GRAPHIC SCALE 1:100 (M)

Designed by	M.Fahim Waseq		
Drawn by	M.Fahim Waseq		
Checked By			
Approved By			

No	Submission Description	Date
01	For Tender	14/02/2020

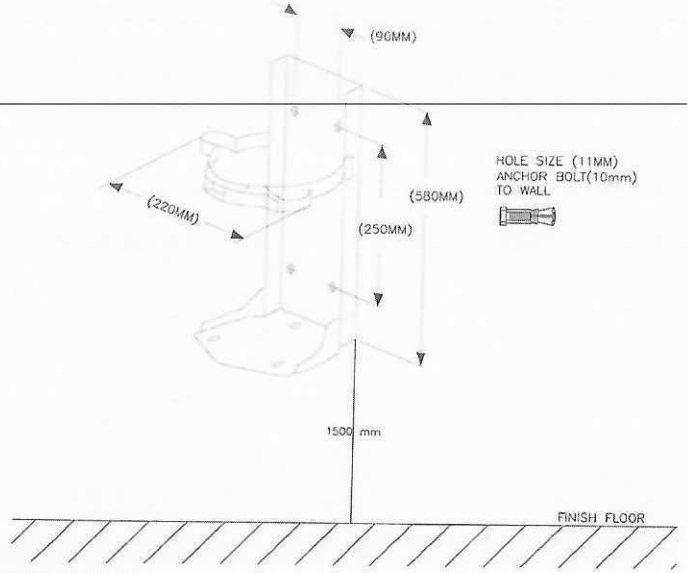
Contract No
Contract Date
Facade Year
Drawn Scale
Paper Size
Print Date

AFGHAN POST OFFICE
JALALABAD PROVINCE , AFGHANISTAN

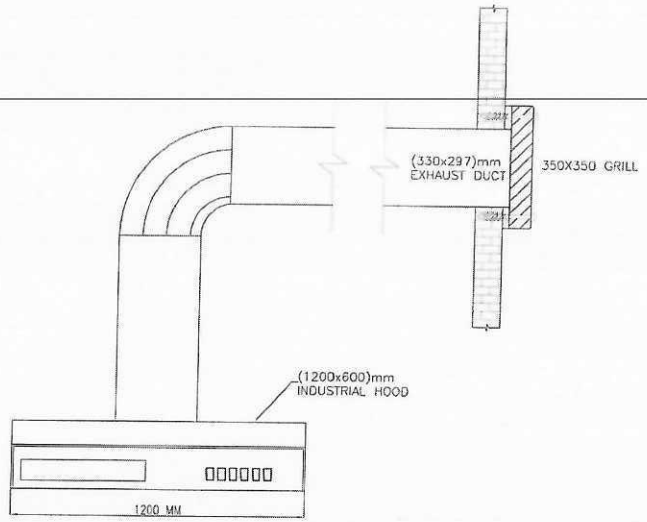
POST OFFICE BUILDING
FIRST FLOOR HVAC AND FIRE EXTINGUISHER PLAN

Sheet Reference Number
M-102

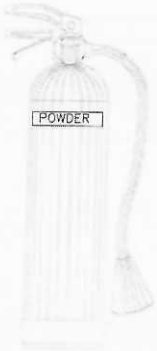
Ministry of Communications and Information Technology
Post Office Building Construction Project
Jalalabad Province



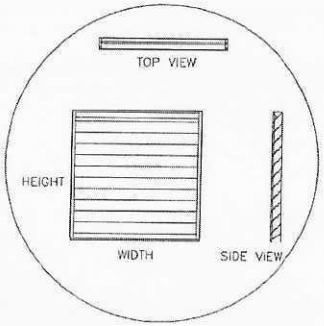
01 | FIRE EXTINGUISHER BRACKET DETAILS
M-502 | REF. SCALE: NTS



03 | INDUSTRIAL HOOD EXHAUST FAN TYP.DETAIL
M-501 | REF. SCALE: NTS



02 | FIRE EXTINGUISHER CYLINDER .
M-502 | REF. SCALE: NTS



04 | INDUSTRIAL HOOD GRILL DETAIL
M-501 | REF SCALE: NTS

Designed by	M.Karim Wasiq	
Drawn by	M.Karim Wasiq	
Checked by		
Head of Department		
Approved by		
Area Coordinator		

No	Submission Description	Date
01	For Tender	14/09/2023

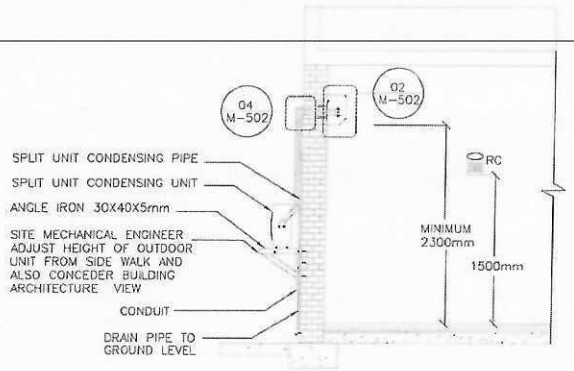
Contract No	
Contract Date	
Fiscal Year	1402/1444
Drawn Date	NA
Paper Size	A3
Scale	NTS

AFGHAN POST OFFICE
JALALABAD PROVINCE AFGHANISTAN

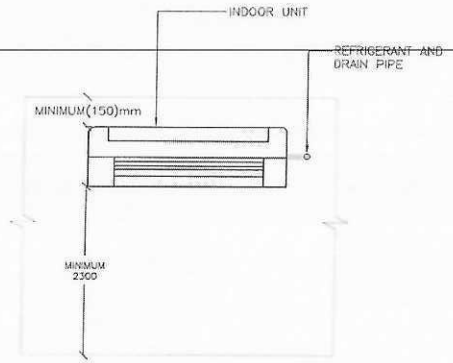
POST OFFICE BUILDING
MECHANICAL DETAILS

Sheet Reference Number
M-501

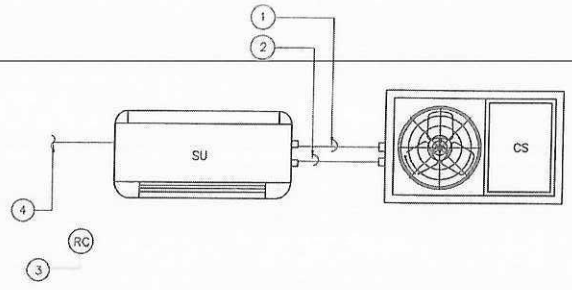
Directorate



01 | INDOOR & OUTDOOR CONNECTION DETAIL
M-502 | REF. SCALE: NTS

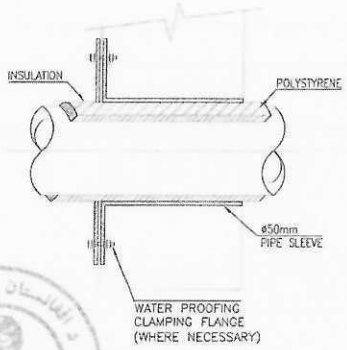


02 | SPLIT UNIT ELEVATION INSTALLATION
M-502 | REF. SCALE: NTS

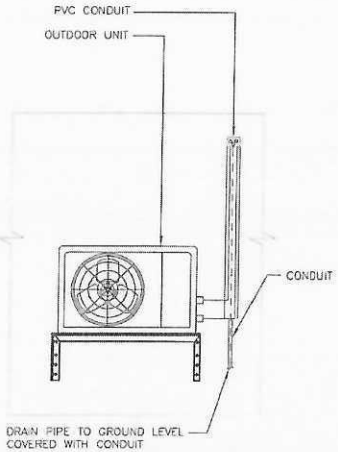


NOTES:
① RETURN GAS REFRIGERANT COPPER PIPE
② SUPPLY LIQUID REFRIGERANT COPPER PIPE
③ WALL MOUNTED REMOTE CONTROL
④ DRAIN PIPE

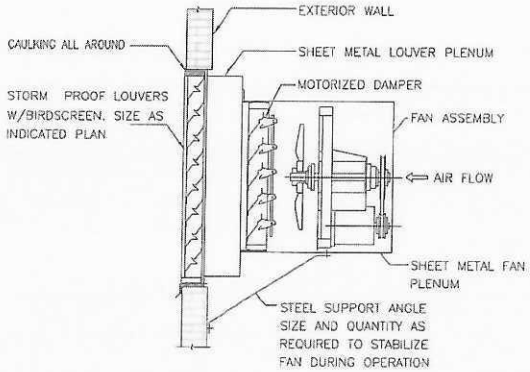
03 | SPLIT UNIT INDOOR & OUTDOOR DETAIL
M-502 | REF. SCALE: NTS



04 | SPLIT UNIT PENETRATION DETAIL
M-502 | REF. SCALE: NTS



05 | CONDENSING UNIT INSTALLATION DETAILS
M-502 | REF. SCALE: NTS



06 | WALL TYPE EXHAUST FAN TYP.DETAIL
M-502 | REF. SCALE: NTS

Designed by: M Fahim Walid
Drawn by: M Fahim Walid

No.	Submission Description	Date
01	For Tender	14/02/2023

Contract No.
Contract Date
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Drawn Code: MS
Paper Size: A3
For Date: 14/02/2023
Scale: N.T.S

AFGHAN POST OFFICE
JALALABAD PROVINCE, AFGHANISTAN
POST OFFICE BUILDING
MECHANICAL TYPICAL DETAILS

Sheet Reference Number: M-502

CONDENSING UNITS SCHEDULE (CU)

SYMBOL	UNIT NUMBER	AMBIENT TEMP C°	WEIGHT	ELECTRICAL DATA			GROSS DIMENSION(MM)			REMARKS
				VOLTS	PHASE	HERTZ	WIDTH	HEIGHT	DEPTH	
	CU-01	46	37.5	220	1	50	926	384	640	GALVANIZED MILD STEEL EPOXY POLYESTER POWDER CASING
	CU-02	46	56.5	220	1	50	1023	911	413	GALVANIZED MILD STEEL EPOXY POLYESTER POWDER CASING
	CU-03	46	56.5	220	1	50	1023	911	413	GALVANIZED MILD STEEL EPOXY POLYESTER POWDER CASING

INDUSTRIAL EXHAUST HOOD

SYMBOL	NO. MOTOR	EXTERNAL DIMENSIONS (mm)	MAXIMUM AIR FLOW (m³/h)	ELECTRICAL DATA			
				WATT	VOLTS	PHASE	HERTZ
	1	(1200x600x305)	807	292	220	1	50

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (SU)

SYMBOL	UNIT NUMBER	HEATING CAPACITY TOTAL (BTU/H)	COOLING CAPACITY TOTAL (BTU/H)	ELECTRICAL DATA					POWER	SOUND LEVEL HIGH/LOW	AIR FLOW	AMP	REFRIGERATOR TYPE	GROSS DIMENSION(MM)		
				VOLTS	PHASE	HERTZ	WEIGHT (KG)		WATT	dBA	CMH	A	R	WIDTH	HEIGHT	DEPTH
							IN DOOR	OUT DOOR								
	SU-01	10918	8530	220	1	50	12.5	37.5	780	38/16	Auto	3.8	R410a	886	335	317
	SU-02	20472	17060	220	1	50	18.5	56.5	1460	42/25	Auto	6.6	R410a	1123	354	384
	SU-03	27296	23202	220	1	50	18.5	56.5	2280	43/26	Auto	10.8	R410a	1123	354	384

NOTE :
CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL THIS AIR CONDITIONER OR EQUIVALENT, BUT COOLING AND HEATING LOAD DO NOT LESS THAN THIS SCHEDULE.

WALL/WINDOW AXIAL FANS SCHEDULE (EF)

UNIT NUMBER	AIR QUANTITY		STATIC PRESSURE	ELECTRICAL DATA				INTERLOCK WITH	DRIVE TYPE	WEIGHT (kg)	FIXING AREA (MM)	REMARK
	L/S	CMH	Pa	WATT	VOLTS	PHASE	HERTZ					
EF-01	56	200	37	24	230	1	50	–	AXIAL	1.7	195X195	PULL CORD SWITCH VERSION

FIRE EXTINGUISHER (FE)

TYPE	DIAMETER (mm)	HEIGHT (mm)	CAPACITY (Kg)	APPROXIMATE FULL WEIGHT (kg)	WORKING TEMPERATURE RANGE	WORKING PRESSURE(bar)	TEST PRESSURE(bar)	APPROXIMATE DISCHARGE RANGE(m)	FIRE CLASS
STORED PRESSURE TYPE	178	587	9	13.1	-20 to +60 C	12	25	6-7.5	A,B,C +ELECTRICAL

Designed by: M Fahim Waseq
Drawn by: M Fahim Waseq
Checked By
Head of Department
Approved by
Vice Commissioner

No.	Submission Description	Date
01	For Tender	1402/05/20

Contract No.
Contract Date
Fiscal Year 1400-1401
Drawn Date
Project Sum
Print Date
Sheet

AFGHAN POST OFFICE
ALAABIO PROVINCE PROJECT
POST OFFICE BUILDING
MECHANICAL SCHEDULES

Sheet Reference Number
M-03

Finance Directorate

امارت اسلامی افغانستان

معاونیت مالی و اداری

ریاست طرح و دیزاین امور ساختمانی

نقشه های برق

اعمار پسته خانه های تیپیک شرکت دولتی افغان پست افغانستان

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	EG-501	GENERAL NOTES & SYMBOLS	NTS
	EG-502	GROUNDING DETAIL	NTS
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	EG-504	TYPICAL OUTLETS AND SWITCHES MOUNTING DETAILS	NTS
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Designed by Sayed Nasir Sadat
Drawn by
Checked by

No. Submittal Description Date
01 For Tender

Contract No
Contract Date
Fiscal Year
Drawn Date
Paper Size
Plot Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
INDEX

Sheet Reference Number

GENERAL NOTES:

ELECTRICAL NOTES

1. ALL WIRES SHALL BE INSTALLED INSIDE PVC CONDUITS SCHEDULE 40 CONCEALED IN WALLS, FLOOR AND CEILINGS. UNLESS OTHERWISE SPECIFIED.
2. EMERGENCY LIGHTS AND EXIT LIGHTS SHALL BE CONNECTED TO THE UN-SWITCHED PORTION OF THE AREA LIGHTING BRANCH CIRCUIT.
3. ALL WORKS, AND INSTALLATIONS RELATED TO THE ELECTRICAL SYSTEMS SHALL BE DONE IN COORDINATION WITH THE PROJECT ELECTRICAL ENGINEER.
4. ALL ELECTRICAL DEVICES AND EQUIPMENT TO BE PROVIDED SHALL BE 220/380V, 50 Hz.
5. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES HAVING JURISDICTION. ALL EQUIPMENT, DEVICES, AND MATERIAL SHALL BE IEC REQUIREMENT MANUFACTURED.
6. ELECTRICAL PLANS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS.
7. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
8. LIGHTING FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE.
9. ALL EMPTY CONDUIT RUNS IN EXCESS OF 80 CM. SHALL BE PROVIDED WITH A PULL WIRE OF FISH TAPE/CORD.
10. OPENINGS IN EXISTING BUILDING STRUCTURE FOR PASSAGE OF CONDUITS/CABLES SHALL NOT BE CUT UNTIL THE CONTRACTOR HAS ASKED FOR AND RECEIVED WRITTEN APPROVAL FROM THE ARCHITECT.
11. THE LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETELY WITH ALL ACCESSORIES (INCLUDING LAMPS) BY THE ELECTRICAL CONTRACTOR.
12. CONDUCTORS SHALL BE INSTALLED CONTINUOUS BETWEEN DEVICES, WITH SPLICES LOCATED ONLY IN JUNCTION BOXES OR IN CABINETS. CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO REACH THE FARTHEST TERMINAL IN PANELS.
13. PROVIDE AN UPDATED TYPE WRITTEN PANEL DIRECTORY IN EACH PANEL AFTER COMPLETION OF WORK.
14. PROVIDE CORD AND PLUG TO ALL ELECTRIC WATER HEATER AND TO PROVIDE RECEPTACLE TO MATCH THE SUPPLIED CORD AND PLUG.
15. COLOR CODES FOR THE PROJECT WILL BE IEC AND MUST BE COMPLIED WITH IN ELECTRICITY INSTALLATION.
16. MATERIAL AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE FOR THE APPROPRIATE APPLICATION AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
17. MAJOR COMPONENTS OF EQUIPMENTS SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, TYPE OR STYLE, VOLTAGE AND CURRENT RATING AND CATALOG NUMBER ON A NON-CORROSIVE AND NON HEAT SENSITIVE PLATE, SECURELY ATTACHED TO THE EQUIPMENT. ALL EQUIPMENT DELIVERED AND PLACED IN STORAGE, PRIOR TO INSTALLATION, SHALL BE PROTECTED FROM THE WEATHER, HUMIDITY AND TEMPERATURE VARIATION, DIRT AND DUST, AND ANY OTHER CONTAMINANTS. ALL EQUIPMENT SHALL BE IN NEW CONDITION, UNDAMAGED AND UNUSED.
18. THE PHRASE "PB-XX-M "ON CIRCUITS IN ELECTRICAL DRAWINGS SPECIFY THAT
   - •• m THE NUMBER OF THE CIRCUIT.
   - •• PB-XX NUMBER OF THE PANEL/DISTRIBUTION BOARD THAT THE CIRCUIT IS ORIGINATE FROM.

EQUIPMENT SPECIFICATIONS

WIRING DEVICES

1 - MOUNTING HEIGHT OF SWITCHES 1200mm AFF UNLESS OTHERWISE NOTED.
2 - MOUNT HEIGHT OF RECEPTACLES AND TELEPHONE/DATA OUTLETS 450mm AFF UNLESS
OTHERWISE NOTED.
3 - MOUNT HEIGHT OF TELEPHONE TERMINAL CABINET (COM) 1800mm FROM THE TOP OF
CABINET TO FLOOR.
4 - MOUNT HEIGHT OF ELECTRICAL PANELS 1800mm A.F.F. TO THE TOP OF THE PANEL.
5 - DATA CABLE SHALL BE CAT 6, 4 PAIRS
AND TELEPHONE CABLE CAT 5, 4 PAIRS.
6 - FOR EXACT LOCATION OF MECHANICAL EQUIPMENT REFER TO MECHANICAL DESIGN DRAWINGS.
7 - THE GROUNDING RESISTANCE SHALL BE NO HIGHER THAN 25 OHMS,EXCEPT IN
THE GENERATOR,UPS AND EQUIPMENT ROOM SHALL BE 5 OHMS MEASURED MIN
OF 48 HRS AFTER RAINFALL, ADDITIONAL RODS SHOULD BE USED TO ACHIEVED
THE REQUIRED RESISTANCE
8 - ALL EXTERNAL ELECTRICAL PVC CONDUIT ARE UNDER GROUND MIN AT 500mm.
9 - ALL PANEL BOARDS SHALL BE RATED FOR A MINIMUM 25 KAIC UNLESS
OTHERWISE NOTED ON THE DRAWING.
10 - SOCKETS (WATER PROOF) SHALL BE MOUNTED AT 1200mm AFF IN ALL WET/DUMP
AREAS AND CONNECTED TO RCD CIRCUIT BREAKER,THE TRIP SETTING OF THE RCD
CIRCUIT BREAKER SHALL BE 10mA OR LESS.
11 - UNDER GROUND DISTRIBUTION SYSTEM WILL USE SCHEDULE 40 PVC CONDUIT
UNDER ROADWAYS AND HIGH TRAFFIC AREAS ENCASE IN CONCRETE.
12- All DIRECT BURIED PVC CONDUIT SHOULD BE SCHEDULE 80.

RACEWAY

1. MINIMUM SIZE OF THE CONDUIT SHALL BE 20MM PVC SCHEDULE 40 AND ALL INTERNAL WIRING SHOULD BE CANCEALED.
2. PROVIDE FLEXIBLE CONDUIT FOR MOTOR CONNECTIONS, AND FOR OTHER ELECTRICAL EQUIPMENT CONDITIONS, WHERE SUBJECT TO MOVEMENT AND VIBRATION 1800MM MAXIMUM LENGTH PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT FOR CONNECTION OF MOTOR AND FOR OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT AND VIBRATION. WHERE SUBJECT TO ONE OR MORE OF THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE:
   - MOIST AND HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.
   - CORROSIVE ATMOSPHERE.
   - SUBJECT TO DRIPPING OIL, GREASE OR WATER.
3. ALL METAL CONDUITS SHALL BE GROUNDED PER NEC. CONDUITS ENTERING THE OUTLET BOXES, PANEL CABINETS ETC. MUST BE FITTED WITH A DOUBLE LOCKNUT AND BUSHING.

WIRES AND CABLES

1. ALL WIRE AND CABLE SHALL BE COPPER WITH THHN/THWN INSULATION AND ALL WIRE SIZES ARE BASED ON COPPER CONDUCTORS WITH 75°C INSULATION UNLESS INDICATED OTHERWISE. ALL CONNECTORS, LUGS, ETC. SHALL BE LISTED FOR 75°C.
2. CONDUCTORS INSTALLED UNDERGROUND OR IN THE WET LOCATIONS SHALL BE SUITABLE FOR WET LOCATIONS PER NEC.
3. ALL WIRE SHALL BE SINGLE CORE.
4. MINIMUM SIZE OF CONDUCTOR SHALL BE 2.5 SQ.MM.
5. CONDUCTOR 4 SQ.MM AND SMALLER SHALL BE SOLID, CONDUCTOR 6 SQ.MM AND LARGER SHALL BE STRANDED.

PANEL BOARDS:

1. PANEL BOARD BUS BARS SHALL BE COPPER.
2. PANEL BOARD ENCLOSURES: PROVIDE GALVANIZED SHEET CABINET, CODE-GAUGE, GUTTERS. PROVIDE FRONTS WITH ADJUSTABLE TRIM CLAMPS AND DOORS WITH CONCEALED PIANO DOOR HINGES AND DOOR SWINGS AS INDICATED. EQUIPMENT WITH INTERIOR CIRCUIT-DIRECTORY FRAME AND CARD WITH CLEAR PLASTIC COVERING. PROVIDE BAKED GRAY ENAMEL FINISH OVER A RUST INHIBITOR COATING. DESIGN ENCLOSURES FOR RECESSED MOUNTING. PROVIDE ENCLOSURES WHICH ARE FABRICATED BY SAME MANUFACTURES AS PANEL BOARDS WHICH MATE AND MATCH PROPERLY WITH PANEL BOARD TO BE ENCLOSED.
3. CABINETS FOR DISTRIBUTION PANELS SHALL HAVE 6 cm OF GUTTER SPACE ON ALL SIDES AROUND PANEL BOARDS AND LIGHTING PANELS HAVE A MINIMUM OF 5 cm ON ALL SIDES AROUND PANEL BOARD.
4. ALL PANEL BOARDS SHALL BE EQUIPPED WITH COMMON KEY LOCKS. PROVIDE MINIMUM OF ONE KEY PER PANEL PLUS (6) SPARES.
5. NEW PANEL BOARDS SHALL BE AS INDICATED ON THE DRAWINGS, MOLDED CASE CIRCUIT BREAKERS AND COPPER BUS BARS. CIRCUIT BREAKERS AND INTERIORS SHALL BE OF THE SAME MANUFACTURER. THE PANEL BOARD SHALL COMPLY WITH ALL APPLICABLE STANDARDS.

ELECTRICAL BOXES AND FITTINGS

1. ALL BOXES AND FITTINGS SHALL BE PLASTIC BOXES.
2. JUNCTION AND PULL BOXES. PROVIDE PLASTIC JUNCTION AND PULL BOXES.
3. PROVIDE WEATHERPROOF OUTLETS FOR INTERIOR AND EXTERIOR LOCATIONS EXPOSED TO WEATHER OR MOISTURE.

FIRE ALARM NOTES

1. PROVIDE FIRE ALARM SYSTEM ON DESIGN-BUILD DRAWING.
2. ALL DEVICES AND EQUIPMENT FOR THIS SYSTEM SHALL CONFORM TO THE APPLICABLE SECTIONS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 AND 90A.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF NFPA 72, THE NATIONAL ELECTRICAL CODE (NEC), AND AED REQUIREMENTS.
4. UPON COMPLETION, THE SYSTEM SHALL BE THOROUGHLY TESTED BY THE CONTRACTOR TO ASSURE PROPER INTERFACING OF ALL COMPONENTS.
5. ALL WIRING FOR THE FIRE DETECTION AND ALARM SYSTEM SHALL BE RUN IN CONDUIT BY THE CONTRACTOR. ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED BY THE CONTRACTOR OR STENCILED FOR DISTINCT IDENTIFICATION. ALL CONDUIT, DEVICE MOUNTING BOXES, JUNCTION BOXES, AND PANELS SHALL BE SECURELY FASTENED BY THE CONTRACTOR WITH APPROPRIATE FITTINGS TO INSURE A POSITIVE GROUND THROUGHOUT THE ENTIRE SYSTEM.
6. ALL CONNECTIONS TO PANELS, DEVICES, AND DETECTORS SHALL BE MADE WITH CRIMP TYPE SPADE TERMINAL CONNECTORS. SPLICES IN STATION CIRCUITS SHALL BE MADE ONLY IN JUNCTION BOXES AND SHALL BE CRIMP CONNECTED.
7. ALL WIRING SHALL BE CHECKED AND TESTED BY THE CONTRACTOR TO INSURE THE SYSTEM IS FREE FROM GROUNDS, OPENS, AND SHORTS.

Designed by: Saeed Nasir Sadat

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
GENERAL NOTES

Sheet Reference Number

LEGENDS

LEGENDS

LIGHT FIXTURE SCHEDULE

FIXTURE SYMBOLS	DESCRIPTION	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING
	EMERGENCY LED LIGHTING FIXTURE,WALL MOUNTED, 2AH BATTERY, 8 HOURS RATING, ELECTROSTATIC POWDER COATED METAL, HIGH EFFICACY SMD LED	1x5 W, LED	(220-240) V, 1ϕ , 50Hz	WALL MOUNTED
	RAL 9050 ELECTROSTATIC POWDER COATED SHEET METAL, FROSTED GLASS,LONG LIFE, LOW POWER LOSS CONVERTER WITH CONSTANT CURRENT, CMOPATIBLE WITH ENEC STANDARD.	24 W, LED TYPE 4000K	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED
	ELECTROSTATIC POWDER COATED SHEET METAL,UV STABILIZED DIFFUSER,600X600MM LED PANEL LIGHT DIFFUSER COVER, PF> 0.65, IP44, WORKING TEMPERATURE -30 UP TO +50 C	1x36 W, LED TYPE 7000-7500K	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED
	MIRROR LIGHT FIXTURE WITH FROSTED DIFFUSER, LED TYPE, 2700-6500K.	1x8W, LED	(220-240) V, 1ϕ , 50Hz	PNEDANT MOUNTED
	WATER PROOF LED LIGHTING FIXTURE ,TEMPERATURE (K') IS 4000.	14 W, LED	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED
	WALL MOUNTED, OUTDOOR GLOP , LED LIGHTING FIXTURE	1 x 7 W, LED	(220-240) V, 1ϕ , 50Hz	WALL MOUNTED
	MOTION SENSOR LAMP ELECTROSTATIC POWDER COATED SHEET METAL, FROSTED GLASS,LONG LIFE, LOW POWER LOSS CONVERTER WITH CONSTANT CURRENT, COMPATIBLE WITH ENEC STANDARD.	18 W, LED TYPE 4000K	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED
	WATER PROOF LED LIGHTING FIXTURE ,TEMPERATURE (K') IS 4000.	26 W, LED	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED

SWITCHES:

S	SINGLE POLE SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200mm AFF
S_3	THREE WAY SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200mm AFF
S_4	FOUR WAY SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200 AFF
S_{DM}	DIMMER SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200 AFF
S_M	MOTOR SWITCH, SINGLE OR THREE PHASE, ...A, 220/380V,
	DISCONNECT SWITCH, 50Hz, MOUNTED AT 1200mm AFF.
	SINGLE BREAK SWITCH, 380V, ...A, 50Hz

RECEPTACLES:

	SINGLE RECEPTACLE
	SINGLE RECEPTACLE WATER PROOF
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WATER PROOF

ELECTRICAL EQUIPMENTS:

	CEILING FAN COMPLETE SET 220V-50Hz, 120W

GROUNDING AND LIGHTNING :

	GROUNDING ROD 3m, ϕ20mm
	ELECTRODE GROUNDING CONDUCTOR
	BONDING

PANEL BOARD

	MAIN DISTRIBUTION PANEL (MDP) MAIN DISTRIBUTION PANEL (MDP)
	SUB DISTRIBUTION PANEL (SDP)
	PANEL BOARD (PB)
	KILOWATT METER
	VOLT METER
	AMPERE METER

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

TELECOMMUNICATION:

	TELEPHONE WALL RECEPTACLE
	DATA WALL RECEPTACLE
	WIRELESS ACCESS POINT
	TELEVISION

FIRE PROTECTION:

	MULTI STATION SMOKE DETECTOR
	MANUAL PULL STATION
	AUDIBLE FIRE ALARM SIGNAL
	STROBE
	FIRE ALARM CANTROL PANEL WITH POWER SUPPLY & BATTERY PACK

ABBREVIATIONS:

A	–	AMPERE
ATS	–	AUTOMATIC TRANSFER SWITCH
AFF	–	ABOVE FINISH FLOOR
CU	–	COPPER
E.H	–	ELECTRICAL HANDHOLE
C.H	–	COMMUNICATION HANDHOLE
EMM	–	ELECTRIC MEDIUM VOLTAGE MANHOLE
ϕ, DIA	–	DIAMETER
EF	–	EXHAUST FAN
EMT	–	ELECTRIC METALLIC TUBING
EWH	–	ELECTRICAL WATER HEATER
FACP	–	FIRE ALARM CONTROL PANEL
ELEC	–	ELECTRICAL
MV	–	MEDIUM VOLTAGE
GRS	–	GALVANIZED RIGID STEEL
HZ	–	HERTZ
JB	–	JOINT BOX
MECH	–	MECHANICAL
mm	–	MILLIMETER
MDP	–	MAIN DISTRIBUTION PANEL
MAX	–	MAXIMUM
M	–	METER
N.F.D.S	–	NON FUSED DISCONNECT SWITCH
SDP	–	SUB DISTRIBUTION PANEL
PB	–	PANEL BOARD
PMT	–	PAD MOUNTED TRANSFORMER
RSC	–	RIGID STEEL CONDUIT
PVC	–	POLYVINYL CHLORIDE
RM	–	ROOM
SF	–	SUPPLY FAN
S.U.	–	SPLIT UNIT
TRANS	–	TRANSFORMER
TTC	–	TELEPHONE TERMINAL CABINET
TYP	–	TYPICAL
TV	–	TELEVISION
U.O.N.	–	UNLESS OTHERWISE NOTED
V	–	VOLT
W	–	WATT
WP	–	WEATHER/WATER PROOF
PC	–	PHOTOCELL
OH	–	OVERHEAD TRANSMISSION LINE
SP	–	LOUD SPEAKER

GENERAL NOTES AND SYMBOLS

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
GENERAL NOTES AND SYMBOLS

LEGENDS

LIGHT FIXTURE SCHEDULE

FIXTURE SYMBOLS	DESCRIPTION	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING
	EMERGENCY LED LIGHTING FIXTURE,WALL MOUNTED, 2AH BATTERY, 8 HOURS RATING, ELECTROSTATIC POWDER COATED METAL, HIGH EFFICACY SMD LED	1x5 W. LED	(220-240) V, 1ϕ , 50Hz	WALL MOUNTED
	RAL 9060 ELECTROSTATIC POWDER COATED SHEET METAL, FROSTED GLASS,LONG LIFE, LOW POWER LOSS CONVERTER WITH CONSTANT CURRENT, CMOPATIBLE WITH ENEC STANDARD.	24 W, LED TYPE 4000K	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED
	ELECTROSTATIC POWDER COATED SHEET METAL,UV STABILIZED DIFFUSER,600X600MM LED PANEL LIGHT DIFFUSER COVER, PF> 0.65, IP44, WORKING TEMPERATURE -30 UP TO +50 C.	1x36 W, LED TYPE 7000-7500K	(220-240) V, 1ϕ , 50Hz	SURFACE MOUNTED
	MIRROR LIGHT FIXTURE WITH FROSTED DIFFUSER, LED TYPE, 2700-6500K	1x8W, LED	(220-240) V 1ϕ , 50Hz	PNEDANT MOUNTED
	WATER PROOF LED LIGHTING FIXTURE ,TEMPERATURE (K°) IS 4000.	14 W, LED	(220-240) V, 1ϕ 50Hz	SURFACE MOUNTED
	WALL MOUNTED, OUTDOOR GLOP , LED LIGHTING FIXTURE	1 x 7 W, LED	(220-240) V, 1ϕ , 50Hz	WALL MOUNTED
	MOTION SENSOR LAMP ELECTROSTATIC POWDER COATED SHEET METAL, FROSTED GLASS,LONG LIFE, LOW POWER LOSS CONVERTER WITH CONSTANT CURRENT, COMPATIBLE WITH ENEC STANDARD.	18 W, LED TYPE 4000K	(220-240) V 1ϕ , 50Hz	SURFACE MOUNTED
	WATER PROOF LED LIGHTING FIXTURE ,TEMPERATURE (K°) IS 4000	26 W, LED	(220-240) V 1ϕ , 50Hz	SURFACE MOUNTED

SWITCHES:

S	SINGLE POLE SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200mm AFF
S_3	THREE WAY SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200mm AFF
S_4	FOUR WAY SWITCH, 220V, 50Hz, 15A, MOUNTED AT 1200 AFF
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S_M	MOTOR SWITCH, SINGLE OR THREE PHASE, ..A, 220/380V,
	DISCONNECT SWITCH, 50Hz, MOUNTED AT 1200mm AFF.
	SINGLE BREAK SWITCH, 380V, ..A, 50Hz

LEGENDS

RECEPTACLES:

	SINGLE RECEPTACLE
	SINGLE RECEPTACLE WATER PROOF
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WATER PROOF

ELECTRICAL EQUIPMENTS:

	CEILING FAN COMPLETE SET 220V-50Hz, 120W

GROUNDING AND LIGHTNING :

	GROUNDING ROD 1m, ø20mm
	ELECTRODE GROUNDING CONDUCTOR
	BONDING

PANEL BOARD

	MAIN DISTRIBUTION PANEL (MDP) MAIN DISTRIBUTION PANEL (MDP)
	SUB DISTRIBUTION PANEL (SDP)
	PANEL BOARD (PB)
	KILOWATT METER
	VOLT METER
	AMPERE METER

HANDHOLE ,MANHOLE ,TRANSFORMER

E.H	ELECTRICAL HAND HOLE (120x120x120)cm

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

LOUD SPEAKER

SP	WALL MOUNTED LOUD SPEAKER
	OUT DOOR 75W LOUDSPEAKER
	1400W AMPLIFIER
	WIRE MIC WITH STAND
	WIRE MIC WITHOUT STAND(MINI MIC)

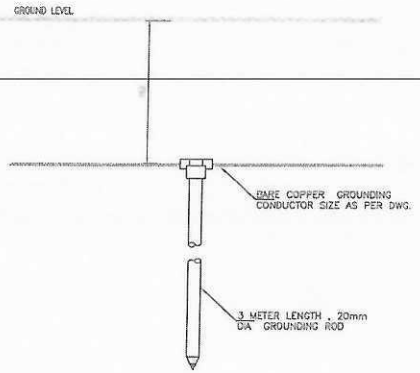
ABBREVIATIONS:

A	–	AMPERE
ATS	–	AUTOMATIC TRANSFER SWITCH
AFF	–	ABOVE FINISH FLOOR
CU	–	COPPER
E.H	–	ELECTRICAL HANDHOLE
C.H	–	COMMUNICATION HANDHOLE
EMM	–	ELECTRIC MEDIUM VOLTAGE MANHOLE
ø, DIA	–	DIAMETER
EF	–	EXHAUST FAN
EMT	–	ELECTRIC METALLIC TUBING
EWH	–	ELECTRICAL WATER HEATER
FACP	–	FIRE ALARM CONTROL PANEL
ELEC	–	ELECTRICAL
MV	–	MEDIUM VOLTAGE
GRS	–	GALVANIZED RIGID STEEL
HZ	–	HERTZ
JB	–	JOINT BOX
MECH	–	MECHANICAL
mm	–	MILLIMETER
MDP	–	MAIN DISTRIBUTION PANEL
MAX	–	MAXIMUM
M.	–	METER
N.F.D.S	–	NON FUSED DISCONNECT SWITCH
SDP	–	SUB DISTRIBUTION PANEL
PB	–	PANEL BOARD
PMT	–	PAD MOUNTED TRANSFORMER
RSC	–	RIGID STEEL CONDUIT
PVC	–	POLYVINYL CHLORIDE
RM	–	ROOM
SF	–	SUPPLY FAN
S.U.	–	SPLIT UNIT
TRANS	–	TRANSFORMER
TTC	–	TELEPHONE TERMINAL CABINET
TYP	–	TYPICAL
TV	–	TELEVISION
U.O.N.	–	UNLESS OTHERWISE NOTED
V	–	VOLT
W	–	WATT
WP	–	WEATHER/WATER PROOF
PC	–	PHOTOCELL
OH	–	OVERHEAD TRANSMISSION LINE
SP	–	LOUD SPEAKER

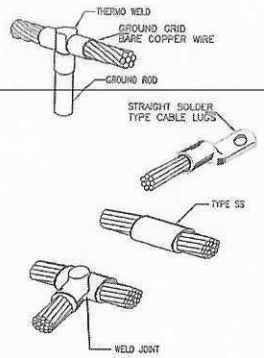
GENERAL NOTES AND SYMBOLS

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
GENERAL NOTES AND SYMBOLS

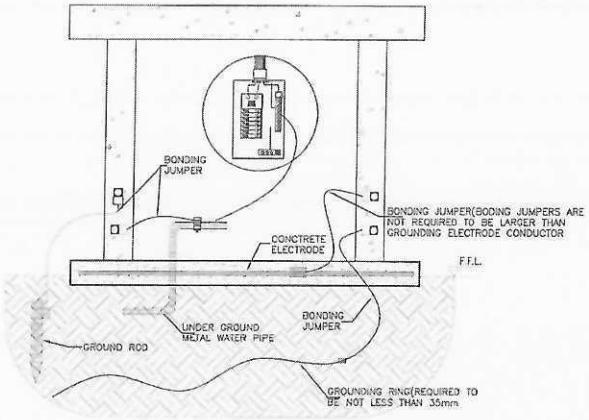


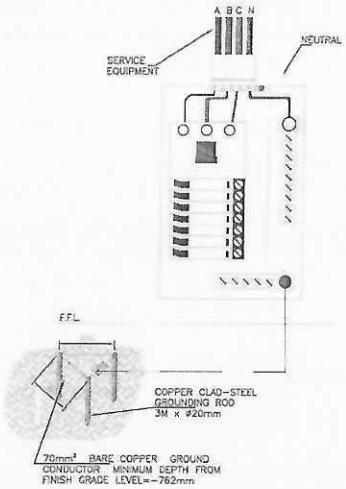
01 GROUND ROD INSTALLATION DETAIL
REF. SCALE: NTS



02 GROUNDING CABLE LUGS
T-CONNECTION/HORIZONATAL SPLICE
REF. SCALE: NTS

1. A GROUNDING ELECTRODE SYSTEM THAT USES THE METAL FRAME OF A BUILDING,A GROUND RING,A CONCRETE-ENCASED ELECTRODE , A METAL UNDERGROUND WATER PIPE ,AND A GROUND ROD.
2. BONDING JUMPER FOR GROUND RING SHALL BE (35MM²), BURIED AT DEPTH OF (762MM)
3. OTHER BONDING JUMPERS SHALL HAVE THE SAME SIZE OF THE GROUND CONDUCTOR FOR MDP.
4. THIS DETAIL IS ONLY FOR MAIN DISTRIBUTION BOARDS,SUB PANELS DOES NOT NEED MAIN BONDING JUMPER.



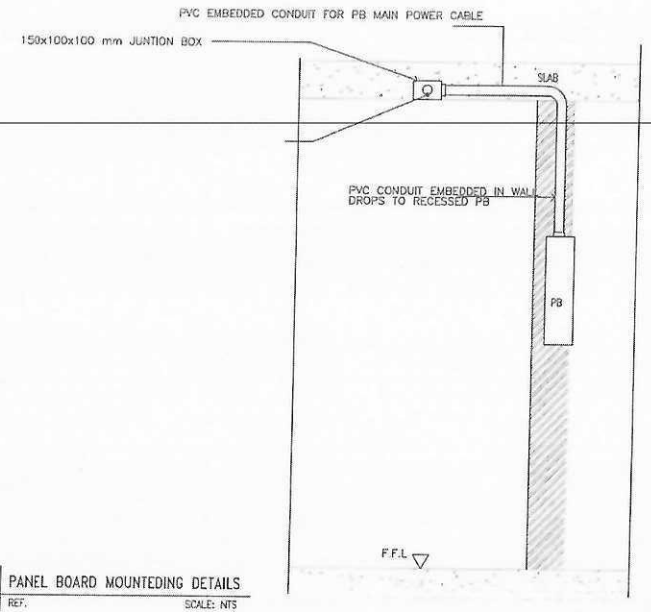


04 TYPICAL STRUCTURAL BONDING DETAIL
REF. SCALE: NTS

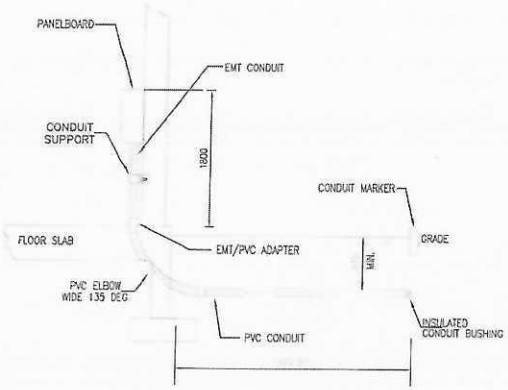
No	Submission Description	Date
01	For Tender	2020/01/20

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

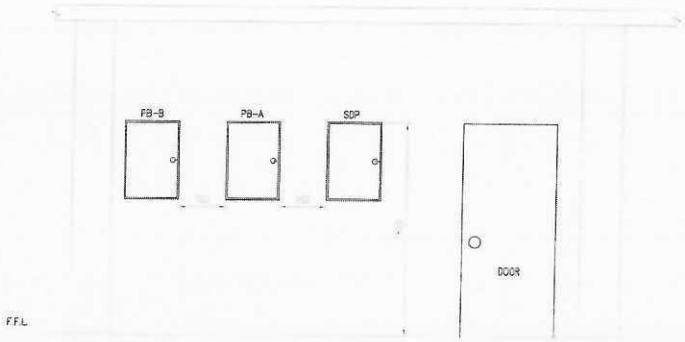
POST OFFICE BUILDING



01 PANEL BOARD MOUNTEDING DETAILS
REF. SCALE: NTS



02 SERVICE ENTRANCE DETAIL
REF. SCALE: NTS



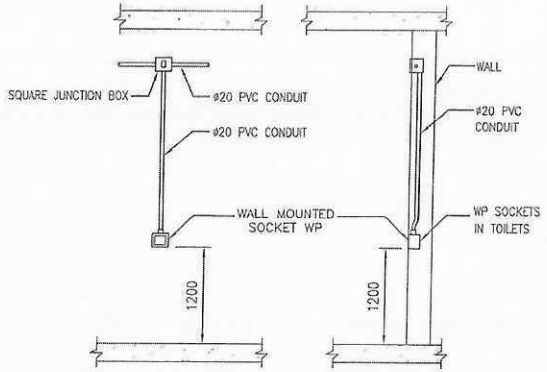
03 PANEL MOUNTING DETAILS
REF. SCALE: NTS

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

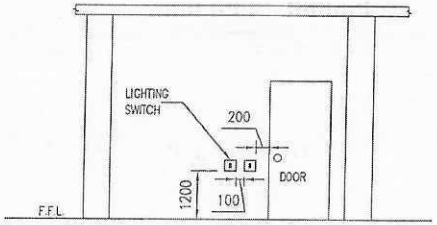
POST OFFICE BUILDING
PANEL BOARD DETAIL

GENERAL NOTES:
ALL DIMENSIONS ARE IN MILIMETER.
ALL CONCEALED CONDUITS ARE PVC TYPE.
ALL EXPOSED CONDUITS ARE PVC TYPE.

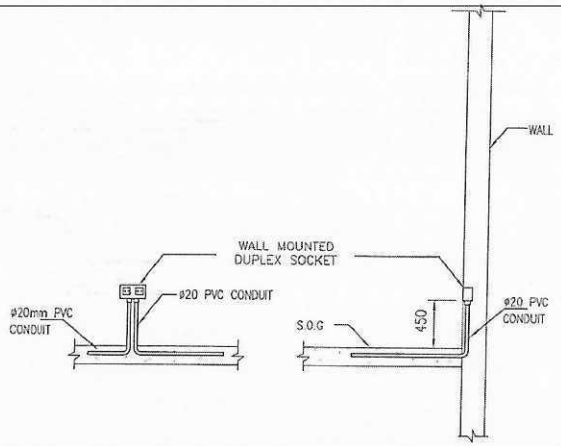
NOTE: LOCATION OF THE CONDUIT FEEDING THE FIRST SWITCH SHALL BE 100mm FROM THE DOOR OPENING.



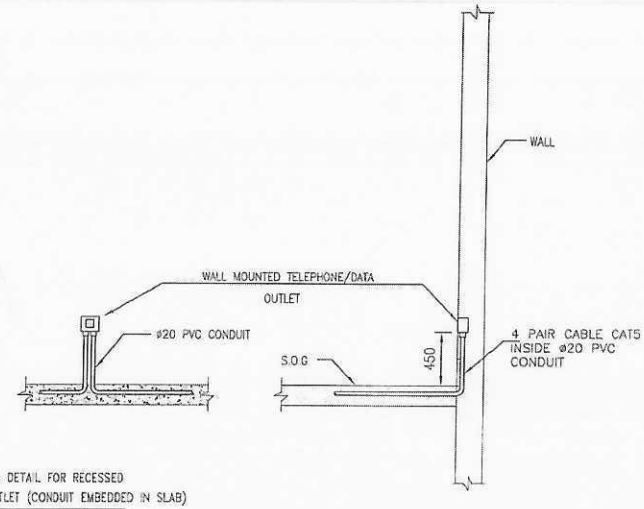
01 GENERAL INSTALLATION DETAIL FOR RECESSED MOUNTED SOCKET IN TOILETS
REF. SCALE: NTS



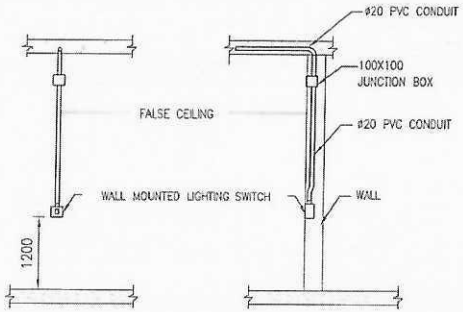
02 SWITCHE MOUNTING DETAILS
REF. SCALE: NTS



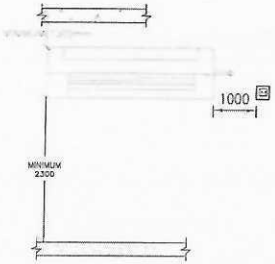
03 GENERAL INSTALLATION DETAIL FOR RECESSED SOCKET (CONDUIT EMBEDDED IN SLAB)
REF. SCALE: NTS



04 GENERAL INSTALLATION DETAIL FOR RECESSED TELEPHONE/ DATA OUTLET (CONDUIT EMBEDDED IN SLAB)
REF. SCALE:



05 GENERAL INSTALLATION DETAIL FOR LIGHT SWITCH (CONCEALED CONDUIT)
REF. SCALE: NTS

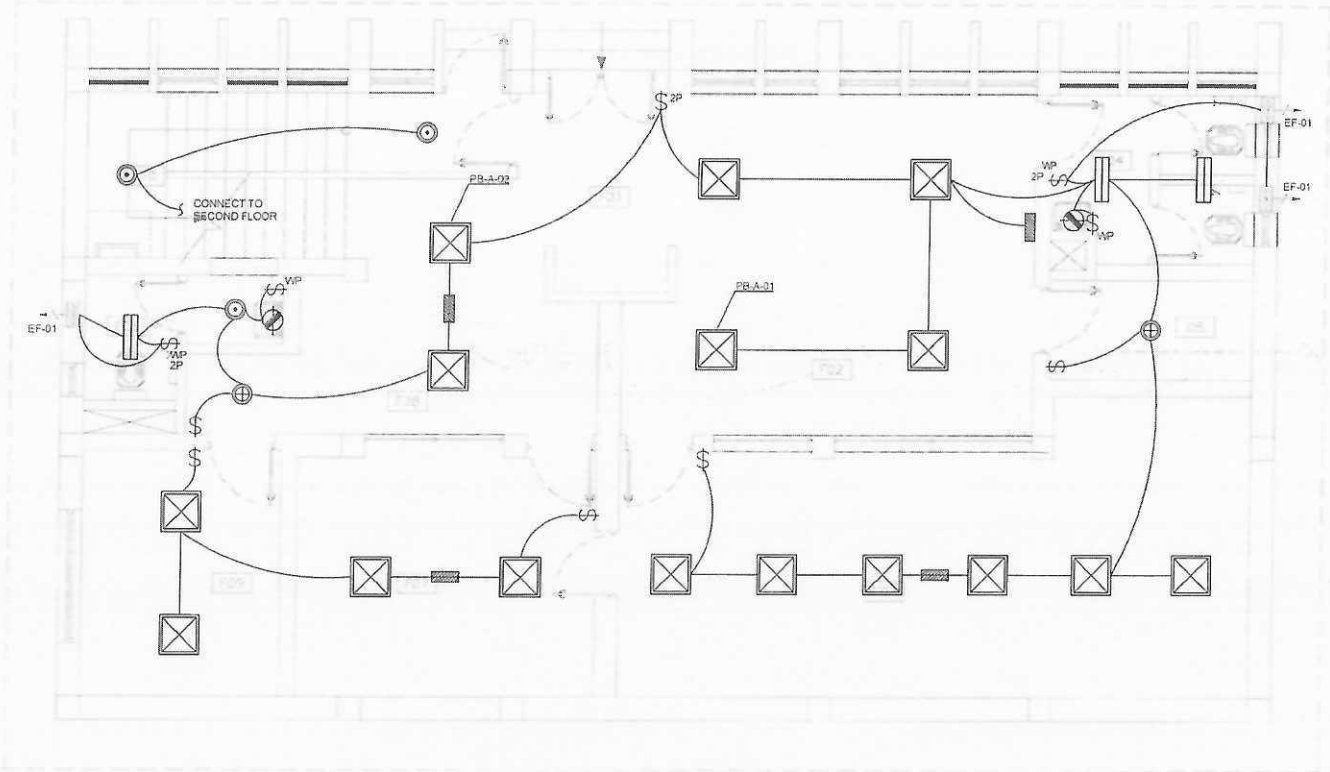


05 SPLIT UNIT INSTALLATION
REF. SCALE: NTS

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING

ROOM NUMBERING SCHEDULE	
NO	USAGE
F01	INFORMATION DESK
F02	MALE HALL
F03	MALE OFFICE WITH BANK
F04	MALE TOILET
F05	ELECTRICAL ROOM
F06	FEMALE HALL
F07	FEMALE OFFICE
F08	FEMALE TOILET
F09	OFFICE MANAGEMENT
F10	STAIR

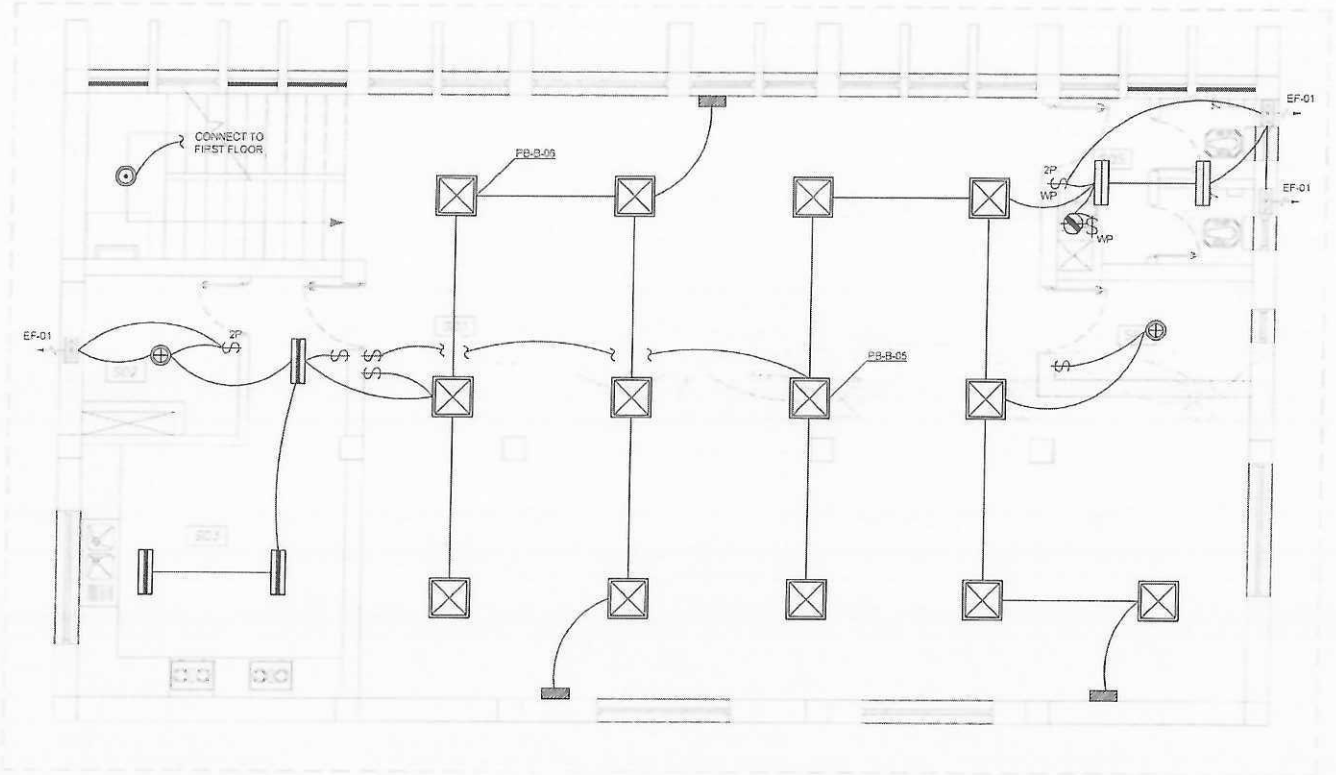


01 FIRST FLOOR LIGHTING PLAN

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR LIGHTING PLAN

ROOM NUMBERING SCHEDULE	
NO	USAGE
S01	HALL
S02	KITCHEN STORAGE
S03	KITCHEN
S04	ELECTRICAL ROOM
S05	TOILETS



01 SECOND FLOOR LIGHTING PLAN

Designed by	Sayed Nasir Sadat
Drawn by	Eram Jalali
Checked by	

No	Submission Description	Date
01	For Tender	2008-10-01

Contract No
Contract Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
SECOND FLOOR LIGHTING PLAN

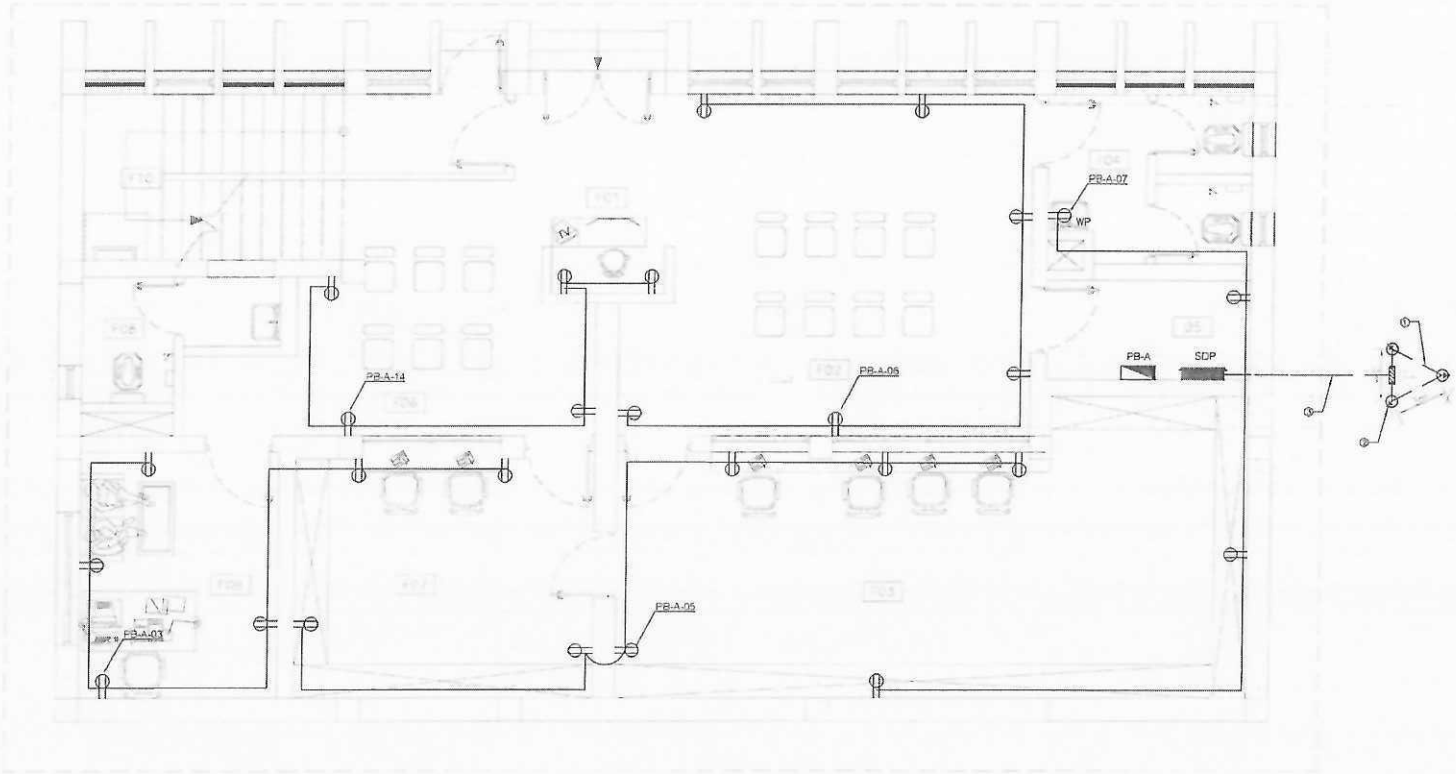
Sheet Reference Number

Engineering Directorate

ROOM NUMBERING SCHEDULE	
NO	USAGE
F01	INFORMATION DESK
F02	MALE HALL
F03	MALE OFFICE WITH BANK
F04	MALE TOILET
F05	ELECTRICAL ROOM
F06	FEMALE HALL
F07	FEMALE OFFICE
F08	FEMALE TOILET
F09	OFFICE MANAGEMENT
F10	STAIR

NOTE

1. MIN 70mm²BARE COPPER GROUND CONDUCTOR MINIMUM DEPTH FROM FINISH GRADE LEVEL=-762mm
2. COPPER CLAD-STEEL GROUNDING ROD 3m x Ø 20mm
3. GROUNDING ELECTRODE CONDUCTOR. CHECK PANEL SCHEDULE FOR SIZE.

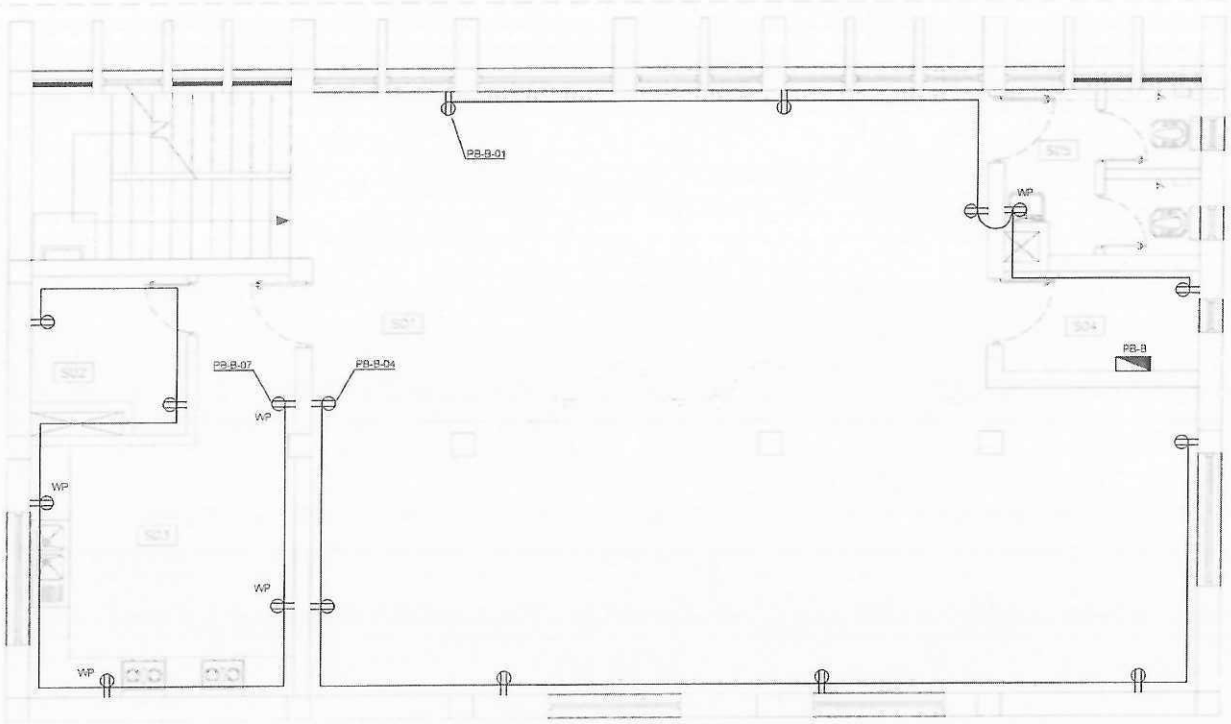


01 FIRST FLOOR POWER PLAN

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR POWER PLAN

ROOM NUMBERING SCHEDULE	
NO	USAGE
S01	HALL
S02	KITCHEN STORAGE
S03	KITCHEN
S04	ELECTRICAL ROOM
S05	TOILETS



01 SECOND FLOOR POWER PLAN

Designed by: Sayed Nazir Sadat

No	Submission Description	Date
01	For Tender	2008-4-02

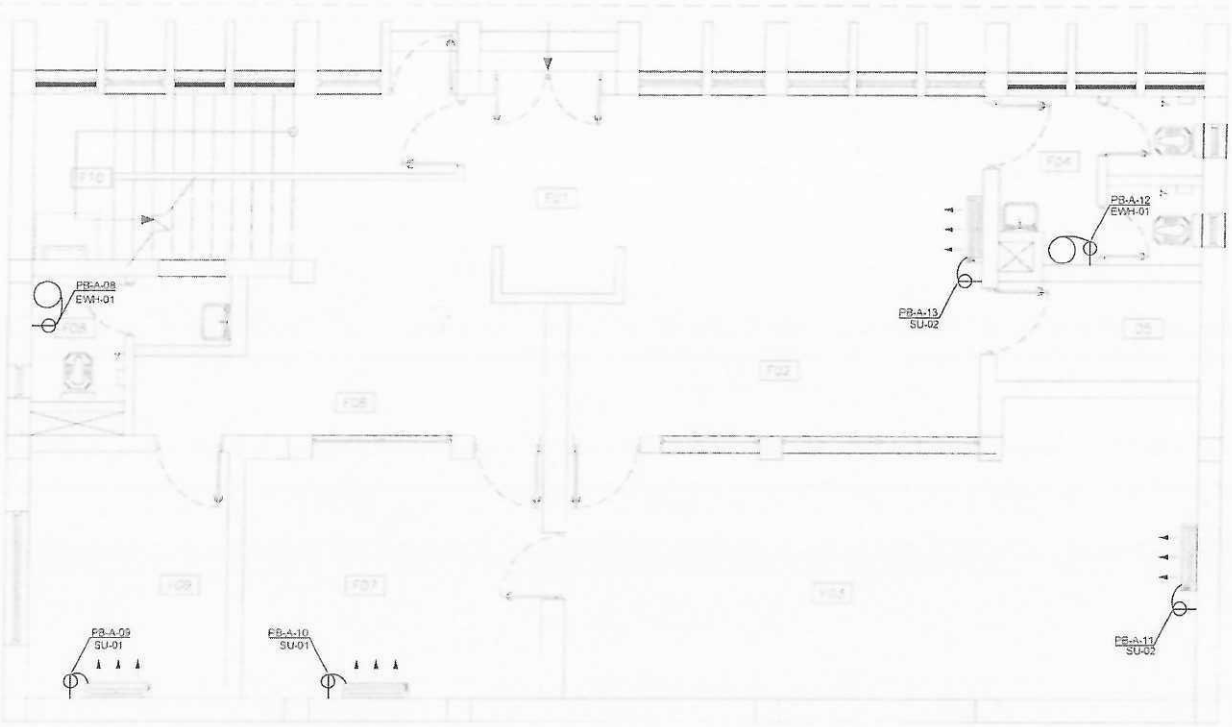
Contract No:

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
SECOND FLOOR POWER PLAN

Sheet Reference Number:

ROOM NUMBERING SCHEDULE	
NO	USAGE
F01	INFORMATION DESK
F02	MALE HALL
F03	MALE OFFICE WITH BANK
F04	MALE TOILET
F05	ELECTRICAL ROOM
F06	FEMALE HALL
F07	FEMALE OFFICE
F08	FEMALE TOILET
F09	OFFICE MANAGEMENT
F10	STAIR



FIRST FLOOR MECHANICAL
01 EQUIPMENT POWER PLAN
SCALE 1/0

ریاست عمومی اداره امور

Designed by	Sayed Nasir Sadat
Drawn by	[illegible]
Checked by Head of Department	[illegible]
Approved by	[illegible]

No.	Submission Description	Date
01	For Tender	[illegible]

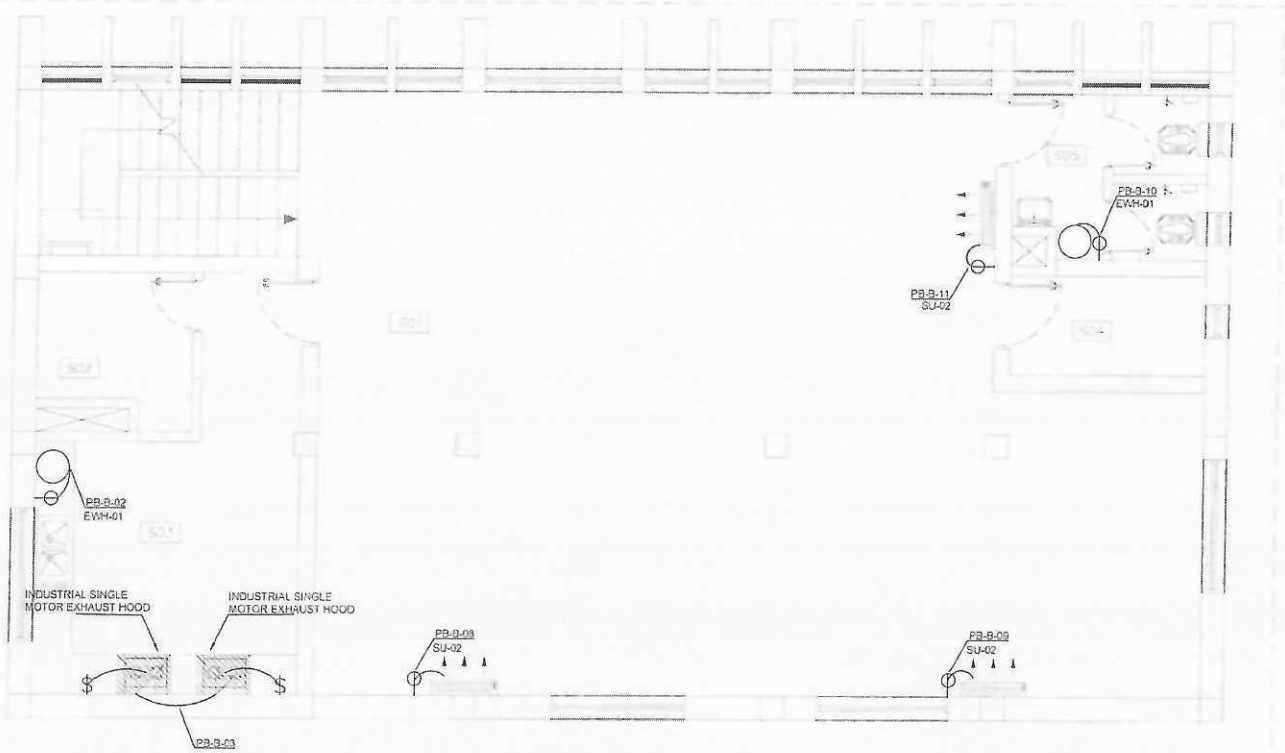
Contract No.
Contract Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR MECHANICAL
EQUIPMENT POWER PLAN

Sheet Reference Number

ROOM NUMBERING SCHEDULE	
NO	USAGE
S01	HALL
S02	KITCHEN STORAGE
S03	KITCHEN
S04	ELECTRICAL ROOM
S05	TOILETS



01 EQUIPMENT POWER PLAN

Designed by: Sayed Nasir Sadat

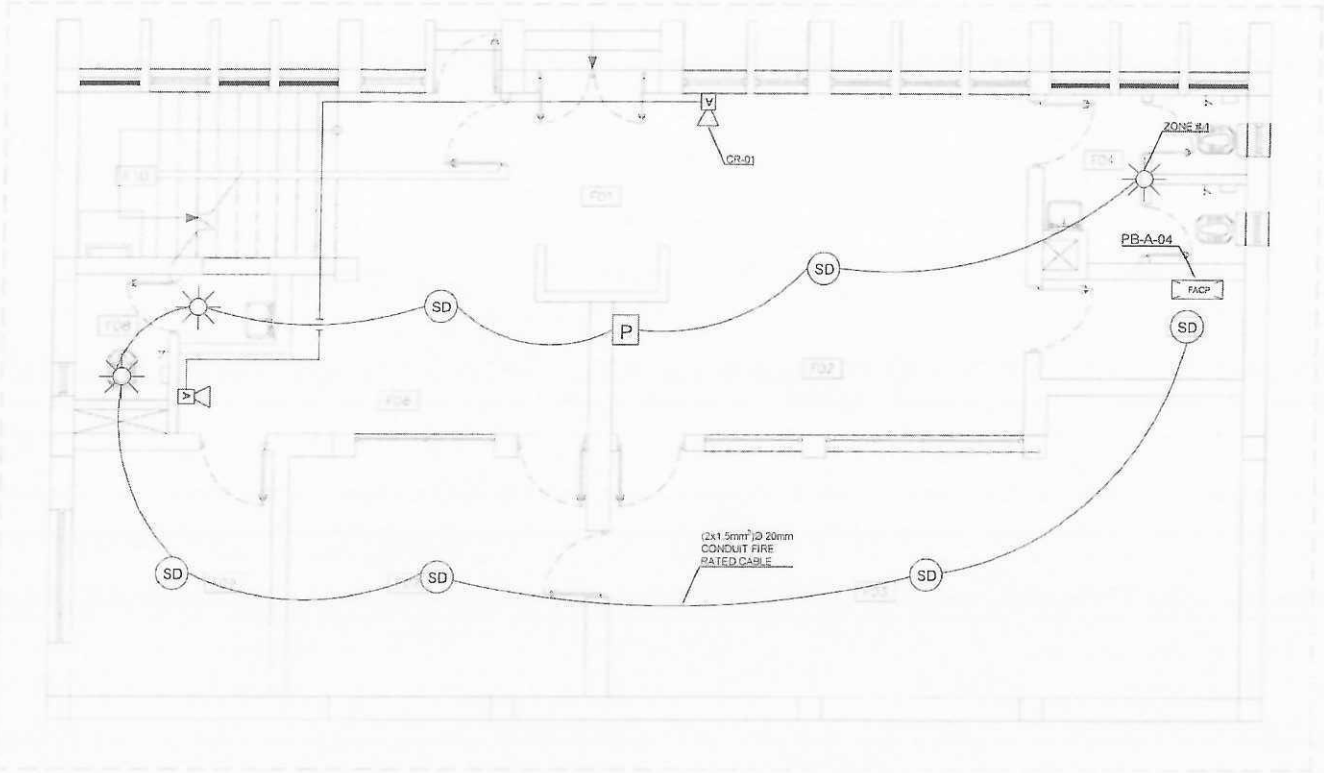
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
SECOND FLOOR MECHANICAL
EQUIPMENT POWER PLAN

Sheet Reference Number

Directorate

ROOM NUMBERING SCHEDULE	
NO	USAGE
F01	INFORMATION DESK
F02	MALE HALL
F03	MALE OFFICE WITH BANK
F04	MALE TOILET
F05	ELECTRICAL ROOM
F06	FEMALE HALL
F07	FEMALE OFFICE
F08	FEMALE TOILET
F09	OFFICE MANAGEMENT
F10	STAIR

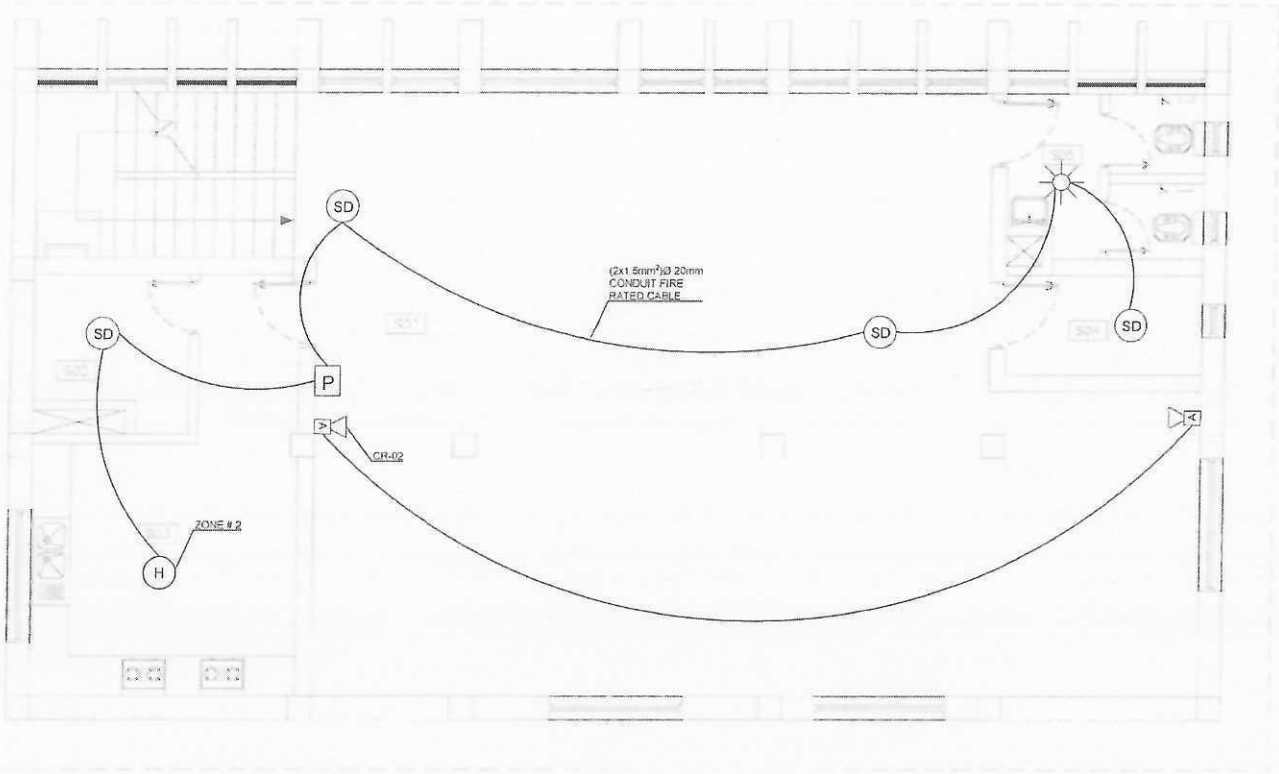


01 FIRST FLOOR FIRE ALARM PLAN

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR FIRE ALARM PLAN

ROOM NUMBERING SCHEDULE	
NO	USAGE
S01	HALL
S02	KITCHEN STORAGE
S03	KITCHEN
S04	ELECTRICAL ROOM
S05	TOILETS



01 SECOND FLOOR FIRE ALARM PLAN

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
SECOND FLOOR FIRE ALARM PLAN

Sheet Reference Number

Designed by
Drawn by
Checked by
Approved by

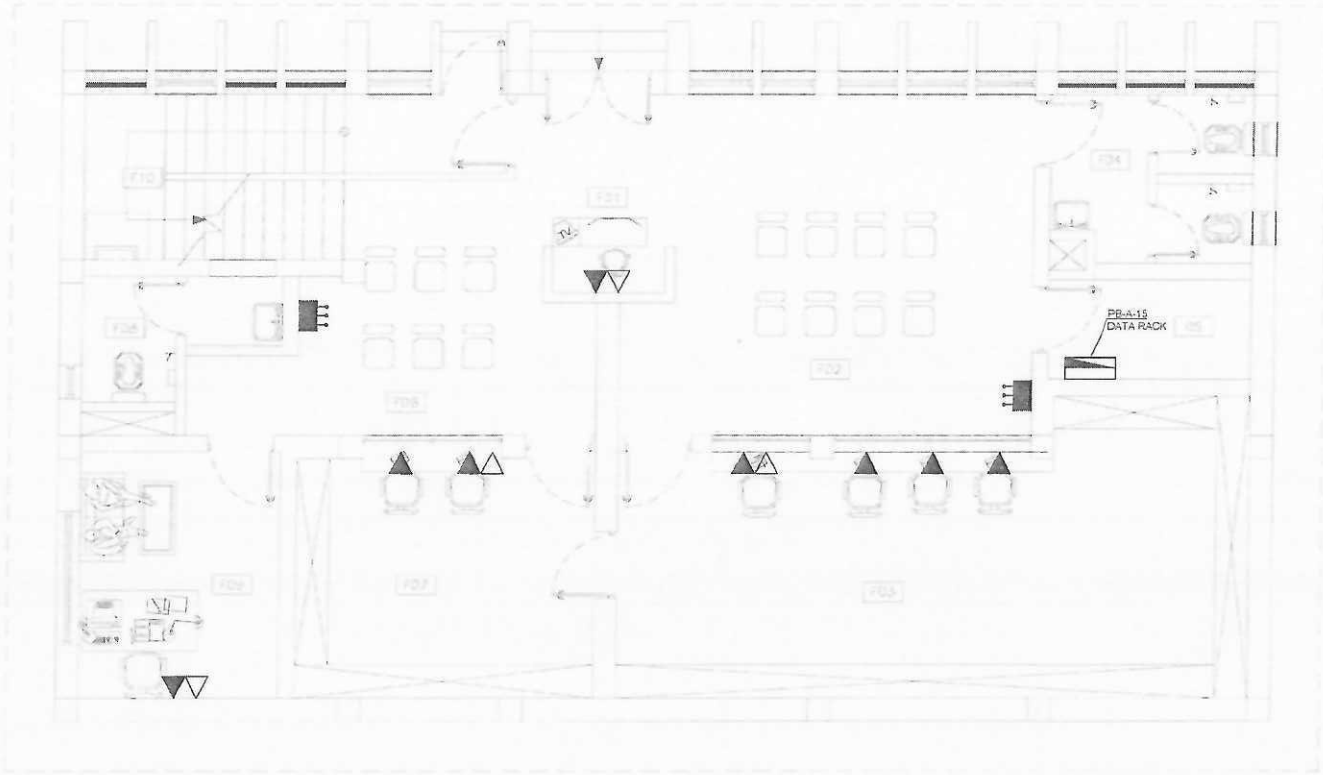
Contract No
Contract Date
Paper Size
Plot Date
Scale

Date

Submission
Description
For Tender

Sayed Noor Sadat
Eqbal Lagari

ROOM NUMBERING SCHEDULE	
NO	USAGE
F01	INFORMATION DESK
F02	MALE HALL
F03	MALE OFFICE WITH BANK
F04	MALE TOILET
F05	ELECTRICAL ROOM
F06	FEMALE HALL
F07	FEMALE OFFICE
F08	FEMALE TOILET
F09	OFFICE MANAGEMENT
F10	STAIR

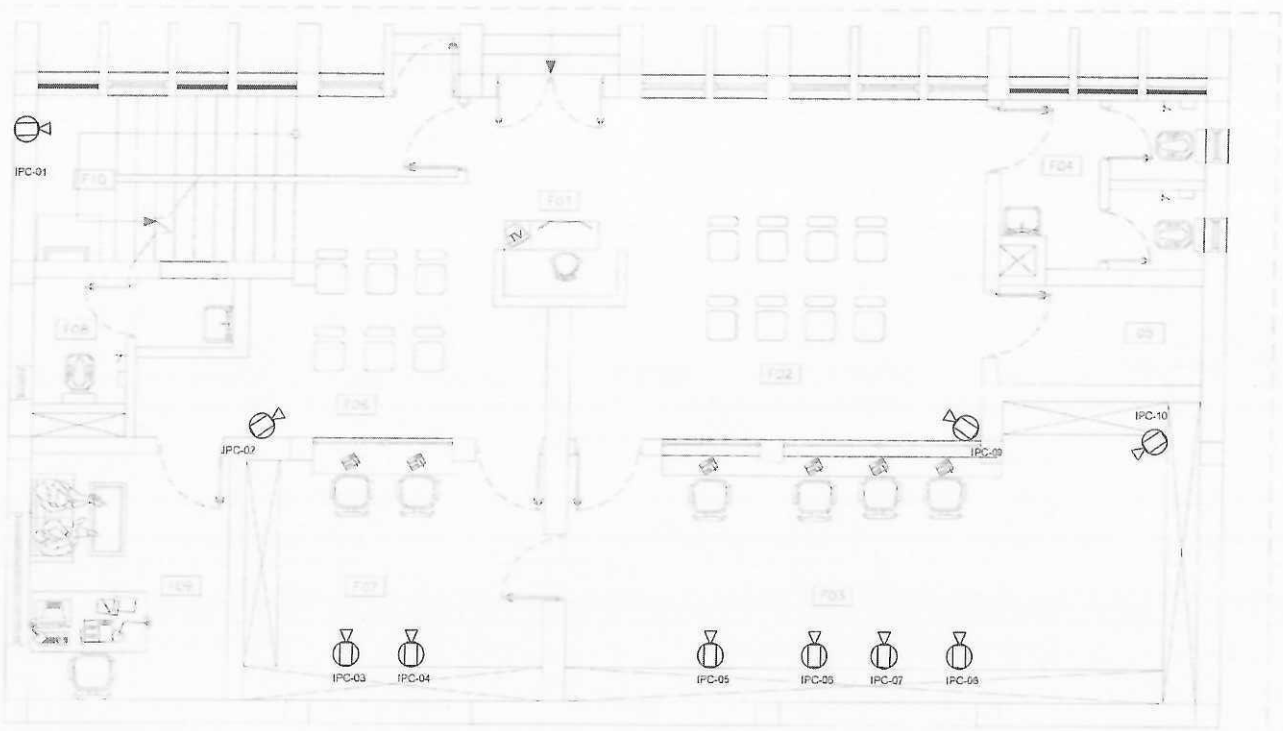


01 FIRST FLOOR COMMUNICATION PLAN

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR COMMUNICATION PLAN

ROOM NUMBERING SCHEDULE	
NO	USAGE
F01	INFORMATION DESK
F02	MALE HALL
F03	MALE OFFICE WITH BANK
F04	MALE TOILET
F05	ELECTRICAL ROOM
F06	FEMALE HALL
F07	FEMALE OFFICE
F08	FEMALE TOILET
F09	OFFICE MANAGEMENT
F10	STAIR

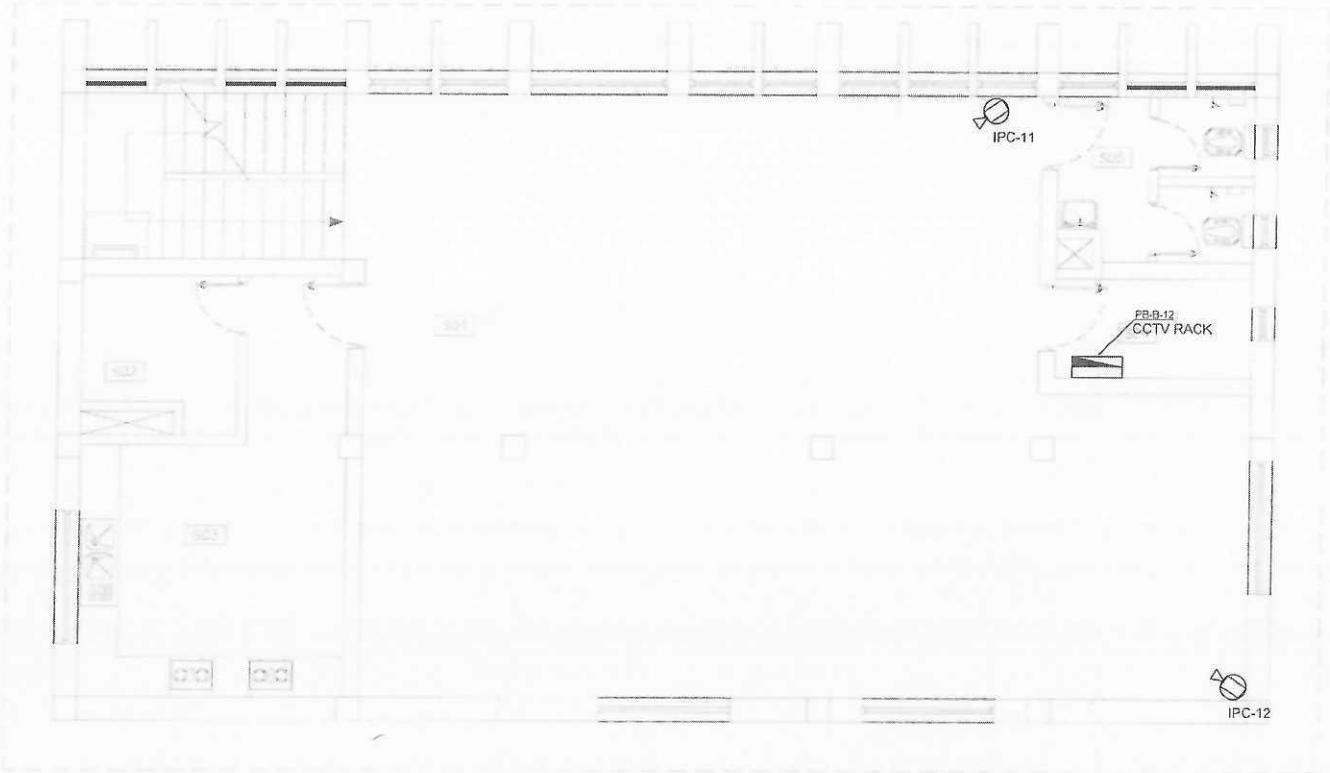


01 FIRST FLOOR CCTV PLAN

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
FIRST FLOOR CCTV PLAN

ROOM NUMBERING SCHEDULE	
NO	USAGE
S01	HALL
S02	KITCHEN STORAGE
S03	KITCHEN
S04	ELECTRICAL ROOM
S05	TOILETS



01 SECOND FLOOR CCTV PLAN

Designed by: Sayed Nasir Sadat

No	Submission Description	Date
0	For Tender	2020/1/20

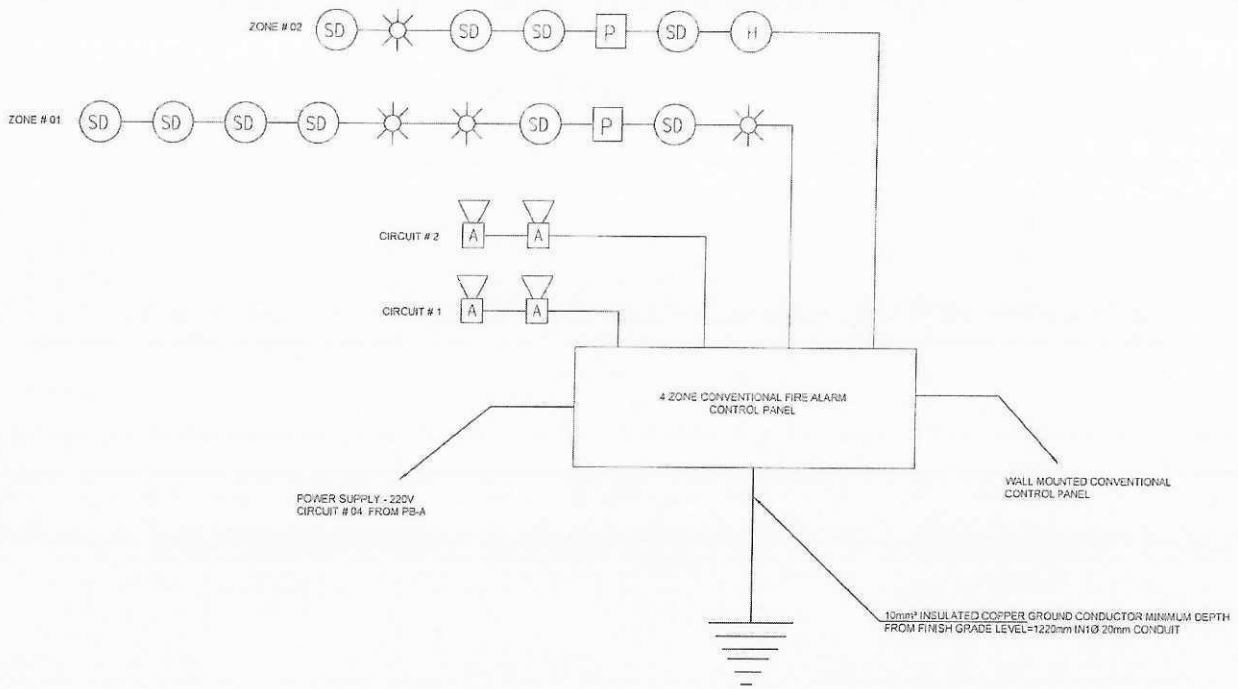
Contract No:

Contract Date:

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
SECOND FLOOR CCTV PLAN

Sheet Reference Number:



01 FIRE ALARM RISER DIAGRAM
REF SCALE: 1:75

Designed by: Sayed Nasir Sadat
Drawn by: Eqbal Lodin
Checked by
Approved by

No	Submission Description	Date
01	For Tender	25/08/1400

Contract No
Contract Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

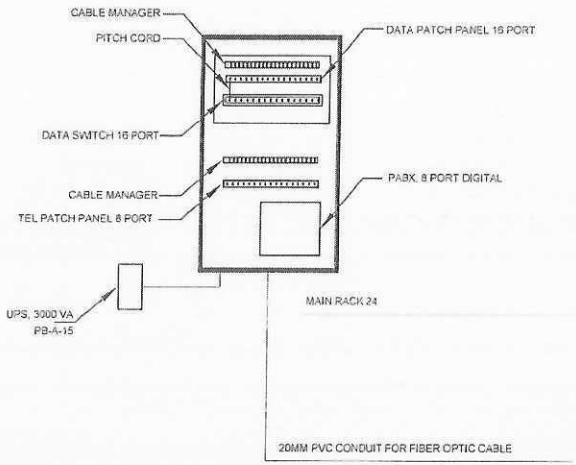
POST OFFICE BUILDING
FIRE ALARM RISER DIAGRAM

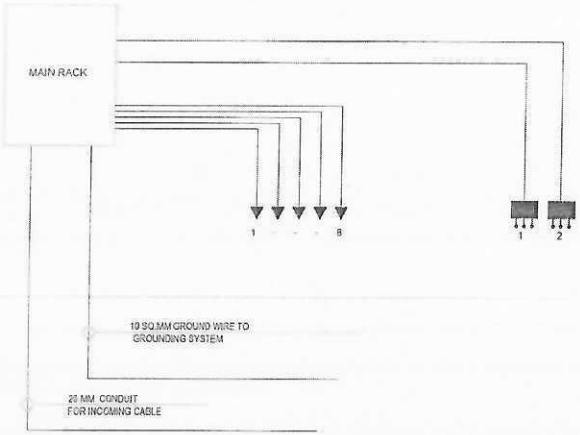
Sheet Reference Number

Engineering Directorate

NOTES

1. ALL DATA CABLES SHOULD BE CAT6
2. ALL TELEPHONE CABLES SHOULD BE CAT5
3. ALL TELEPHONE CABLES SHOULD BE CONNECTED DIRECTLY TO PABX
4. ALL DATA AND TEL CABLES SHOULD BE INSTALLED IN 20MM CONDUIT
5. ALL RACKS ARE SURFACE MOUNTED.





01 COMMUNICATION RISER DIAGRAM

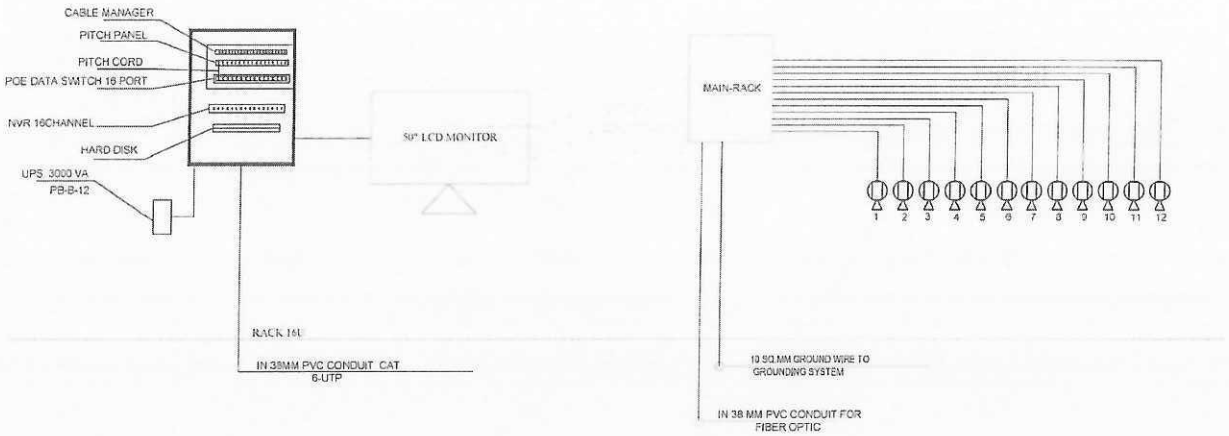
REF SCALE

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
COMMUNICATION RISER DIAGRAM

NOTES

1. ALL IP CAMERAS SHOULD BE INSTALLED AS HIGH AS POSSI BLE TO COVER MAXIMUM ARE.
2. CCTV RACK IS SURFACE MOUNTED



01 CCTV RISER DIAGRAM

REF SCALE 1:10

Designed by: Sayed Nazir Sadat

Drawn by: Eslam Jalali

Checked By: Nasir Ahmad Sadat

Approved By: Eng. Abdul Ghafar Mosleh

No.	Submission Description	Date
01	For Tender	2020/7/22

Contract No.

Contract Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
CCTV RISER DIAGRAM

Sheet Reference Number

25KA IC / 0.5 SEC MIN
RESISTED MOUNTED
380Y / 220 VOLTS, 3 PHASE, 5 WIRE
50Hz PANEL BOARD

SDP
100 AMP MAIN BREAKER

FEED: EXISTING TR
MOUNTED: RESISTED MOUNTED
LOCATION: ELECTRICAL ROOM

WIRE & CONDUIT	GND WIRE	DESCRIPTION	A	B	C	AMP	POLE	CKT	A	B	C	CKT	POLE	AMP	A	B	C	DESCRIPTION	GND WIRE	WIRE & CONDUIT
-	-	-	6891			-	-	1				2	-	-	6605			-	-	-
1(4Cx16mm²)Ø50mm	16mm²	PB-A		6932		50	3	3				4	3	50		6455		PB-B	16mm²	1(4Cx16mm²)Ø50mm
-	-	-			6785	-	-	5				6	-	-			6880	-	-	-
-	-	-				-	-	7				8	1	20				SPARE	-	-
-	-	SPARE				50	3	9				10								
-	-	-				-	-	11				12								
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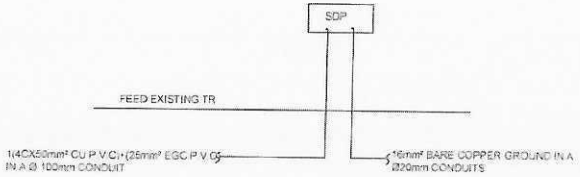
								29				30								
								31				32								
								33				34								
								35				36								
								37				38								
								39				40								
								41				42								
SUB - TOTAL			6891	6932	6785										6605	6455	6880	SUB - TOTAL		

TOTAL PHASE A	13298	VA
TOTAL PHASE B	13087	VA
TOTAL PHASE C	13645	VA
TOTAL CONNECTED LOAD	40.028	KVA
TOTAL DEMAND LOAD (KVA)	32.913	KVA
25% FUTURE LOAD	8.203	KVA
TOTAL DEMAND LOAD + 25% FUTURE LOAD (KVA)	41.016	KVA
TOTAL CURRENT	62.145	Amp
CIRCUIT BREAKER RATING	77.681	Amp
STANDARD CIRCUIT BREAKER SIZE	100	Amp



01 PANEL SCHEDULE
NOT TO SCALE

Designed by: Sayed Nazir Sadat
Drawn by: Kabir Logar

No.	Submission Description	Date
01	For tender	[illegible]

Contract No
Contract Date
Page Total
Drawing Date
Page No

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
PANEL SCHEDULE

Sheet Reference Number

Directorate

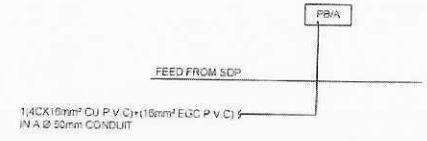
~~25KA IC / 0.5 SEC MIN~~
RESISTED MOUNTED
380Y / 220 VOLTS, 3 PHASE, 5 WIRE
50Hz PANEL BOARD

PB/A
50 AMP MAIN BREAKER

FEED: SDP
MOUNTED: RESISTED MOUNTED
LOCATION: ELECTRICAL ROOM

WIRE & CONDUIT	GND WIRE	DESCRIPTION	A	B	C	AMP	POLE	CKT	A	B	C	CKT	POLE	AMP	A	B	C	DESCRIPTION	GND WIRE	WIRE & CONDUIT
2(1Cx2.5mm²)Ø20mm	2.5mm²	LIGHTING	495			16	1	1				2	1	16	320			LIGHTING	2.5mm²	2(1Cx2.5mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	RECEPTACLES		1080		16	1	3				4	1	16		500		FIRE ALARM	2.5mm²	2(1Cx2.5mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	RECEPTACLES			1080	20	1	5				6	1	20			1080	RECEPTACLES	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	RECEPTACLES	360			20	1	7				8	1	20	1500			E.W.H	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	SU		1026		20	1	9				10	1	20		1026		SU	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	SU			3125	20	1	11				12	1	20			1500	E.W.H	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	SU	3125			20	1	13				14	1	20	900			RECEPTACLES	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	COMMUNICATION UPS		3000		20	1	15				16	1	20				SPARE	-	-
-	-	SPARE				20	1	17				18						SPACE		
		SPACE						19				20								
								21				22								
								23				24								
								25				26								
								27				28								
								29				30								
								31				32								
								33				34								
								35				36								
								37				38								
								39				40								
								41				42								
SUB - TOTAL			3971	5106	4205										2720	1526	2580	SUB - TOTAL		

TOTAL PHASE A	6691	VA
TOTAL PHASE B	6632	VA
TOTAL PHASE C	6785	VA
TOTAL CONNECTED LOAD	20.108	KVA
TOTAL DEMAND LOAD (KVA)	16.802	KVA
25% FUTURE LOAD	4.201	KVA
TOTAL DEMAND LOAD + 25% FUTURE LOAD (KVA)	21.003	KVA
TOTAL CURRENT	31.823	Amp
CIRCUIT BREAKER RATING	39.778	Amp
STANDARD CIRCUIT BREAKER SIZE	50	Amp



01 PANEL SCHEDULE

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
PANEL SCHEDULE

Sheet Reference Number

Designed by | Saeed Nasir Sadat | Drawn by | Checked by | Submission Description: For Tender | Date | Contract No | Contract Date

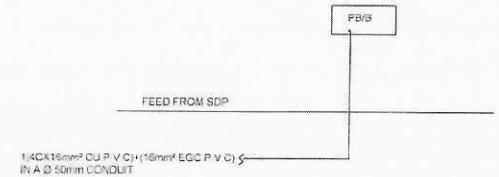
25KA IC / 0.5 SEC MIN
RESISTED MOUNTED
380Y / 220 VOLTS, 3 PHASE, 5 WIRE
50Hz PANEL BOARD

FB/3
50 AMP MAIN BREAKER

FEED: SDP
MOUNTED: RESISTED MOUNTED
LOCATION: ELECTRICAL ROOM

WIRE & CONDUIT	GND WIRE	DESCRIPTION	A	B	C	AMP	POLE	CKT	A	B	C	CKT	POLE	AMP	A	B	C	DESCRIPTION	GND WIRE	WIRE & CONDUIT
2(1Cx4mm²)Ø20mm	4mm²	RECEPTACLES	900			20	1	1				2	1	20	1500			E.W.H	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx2.5mm²)Ø20mm	2.5mm²	INDUSTRIAL HOOD EX.FAN		750		16	1	3				4	1	20		1080		RECEPTACLES	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx2.5mm²)Ø20mm	2.5mm²	LIGHTING			377	16	1	5				6	1	16			358	LIGHTING	2.5mm²	2(1Cx2.5mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	RECEPTACLES	1080			20	1	7				8	1	20	3125			SU	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	SU		3125		20	1	9				10	1	20		1500		E.W.H	4mm²	2(1Cx4mm²)Ø20mm
2(1Cx4mm²)Ø20mm	4mm²	SU			3125	20	1	11				12	1	20			3000	CCTV UPS	4mm²	2(1Cx4mm²)Ø20mm
-	-	SPARE				20	1	13				14	1	16				SPARE	-	-
		SPACE						15				16						SPACE		
								17				18								
								19				20								
								21				22								
								23				24								
								25				26								
								27				28								
								29				30								
								31				32								
								33				34								
								35				36								
								37				38								
								39				40								
								41				42								
SUB - TOTAL			1980	3875	3502										4625	2580	3358	SUB - TOTAL		

TOTAL PHASE A	6805	VA
TOTAL PHASE B	6455	VA
TOTAL PHASE C	6660	VA
TOTAL CONNECTED LOAD	19.920	KVA
TOTAL DEMAND LOAD (KVA)	16.010	KVA
25% FUTURE LOAD	4.003	KVA
TOTAL DEMAND LOAD + 25% FUTURE LOAD (KVA)	20.013	KVA
TOTAL CURRENT	30.322	Amp
CIRCUIT BREAKER RATING	37.903	Amp
STANDARD CIRCUIT BREAKER SIZE	50	Amp



01 PANEL SCHEDULE

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
PANEL SCHEDULE

امارت اسلامی افغانستان

معاونیت مالی و اداری

ریاست طرح و دیزاین امور ساختمانی

نقشه های آبرسانی

اعمار پسته خانه های تیپیک شرکت دولتی افغان پست افغانستان

INDEX SHEET

SHEET No.	FILE NAME	DRAWING TITLES	SCALE
	COVER	COVER	NTS
	G-001	INDEX SHEET	NTS
		POST OFFICE BUILDING	
	P-100	PLUMBING SYMBOL & ABBREVIATIONS	NTS
	P-101	FIRST FLOOR HOT AND COLD WATER PLAN	1:30
	P-102	SECOND FLOOR HOT AND COLD WATER PLAN	1:30
	P-103	ROOF PIPING PLAN	1:75
	P-104	FIRST FLOOR SANITARY SEWER PLAN	1:50
	P-105	SECOND FLOOR SANITARY SEWER PLAN	1:30
	P-501	PLUMBING DETAILS	NTS
	P-502	PLUMBING DETAILS	NTS
	P-503	ROOF MOUNTED WATER TANK PLAN AND SECTION	1:50
	P-504	PLUMBING DETAILS	NTS
	P-601	SCHEDULE	NTS

SHEET No.	FILE NAME	DRAWING TITLES	SCALE

Designed by: Shahzullah Eshaq

Drawn by: Shahzullah Eshaq

Checked by Head of Department

No. | Submission Description | Date
01 | For Tender | 1400/08/20

Contract No

Contract Date

Fiscal Year 1397-1404

Drawn Code

Visual Size

Plot Date

Scale

AFGHAN POST TYPICAL POST OFFICE

ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING

INDEX

Sheet Reference Number

G-001

Directorate

PLUMBING ABBREVIATIONS

CO	CLEANOUT
CW	COLD WATER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FLOOR SINK
GAL	GALLON
GCO	GRADE CLEANOUTS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GRS	GAS REGULATOR STATION
GT	GREASE TRAP
GVTR	GAS VENT THROUGH ROOF
GWH	GAS FIRED WATER HEATER
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HEX	HEAT EXCHANGER
HP	HORSEPOWER
HS	HAND SINK
HST	HOT WATER STORAGE TANK
HB	HOSS BIBB
HWB	HOT WATER BOILER
HWCP	HOT WATER CIRCULATING PUMP
HWP	HOT WATER PUMP
HYD	HYDRANT
ICW	INDUSTRIAL COLD WATER
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
IRW	IRRIGATION WATER
IW	INDIRECT WASTE
IWH	INSTANTANEOUS WATER HEATER
IWR	INDUSTRIAL WATER RETURN
IWS	INDUSTRIAL WATER SUPPLY
KW	KILOWATT
KWHR	KILOWATT-HOUR
L/S	LITER PER SECOND
LA	LABORATORY AIR
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LCW	LABORATORY COLD WATER
LHW	LABORATORY HOT WATER
LNG	LIQUID NATURAL GAS
LOX	LIQUID OXYGEN
LV	LABORATORY VACUUM
LW	LOW WATER
M	METER
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MBH	1000 BTUH
MED	MEDICAL
MER	MECHANICAL EQUIPMENT ROOM
MH	MANHOLE
MOU	MEMORANDUM OF UNDERSTANDING
MSB	MOP SERVICE BASIN
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OR	OPERATING ROOM
OVFL	OVERFLOW
OWS	OIL WATER SEPARATOR
V	VENT
VTR	VENT THROUGH ROOF
WS	WASTE STACK
VS	VENT STACK
WP	WASTE PIPE
VP	VENT PIPE
FT	FLASH TANK
TEMP	TEMPERATURE
F/A	FROM ABOVE
F/B	FROM BELOW
T/A	TO ABOVE
T/B	TO BELOW

PIPING SYMBOLS

COLD WATER (CW)

HOT WATER (HW)

VENT PIPE (VP)

SEWER WATER LINE

LEGEND

GATE VALVE
GLOBE VALVE
BUTTERFLY VALVE
CHECK VALVE
STOP CHECK VALVE
PLUG VALVE
3-WAY VALVE
RELIEF OR SAFETY VALVE
ANGLE VALVE
ANGLE GLOBE VALVE
BALANCING COCK
AIR VALVE
HOSE GATE DRAIN VALVE
EXPANSION VALVE
AAV — AIR VENT AUTOMATIC
AIR VENT MANUAL
M — MOTORIZED VALVE (MODULATING OR TWO POSITION)
S — SOLENOID VALVE
M — 3-WAY MOTORIZED VALVE (MOD.OR 3-POSITION)
S — 3-WAY SOLENOID VALVE
TEMPERATURE REGULATION VALVE
AIR ELIMINATOR
BACK PRESSURE VALVE
PRESSURE REDUCING VALVE
D.V — DRAIN VALVE
SLEEVE COUPLING (SC)
BP — BACKFLOW PREVENTER
AH"A" — WATER HAMMER ARRESTOR
ELECTRICAL WATER HEATER
INSTANTANEOUS ELECTRICAL WATER HEATER
YARD CLEAN OUT
PIPE TURNING DOWN
PIPE TURNING UP
FD — FLOOR DRAIN
H.B — HOSE BIBB, PLAN

LEGEND

P — PRESSURE GAUGE
T — THERMOMETER DIAL TYPE
T — THERMOMETER VERTICAL TYPE
H.B — HOSE BIBB,ELEVATION
W.H — WALL HYDRANT
CO — EXPOSED CLEANOUT
FCO — FLOOR CLEANOUT
WCO — WALL CLEANOUT
BALL VALVE
UNION
FLANGE SET
FLEXIBLE HOSE/CONNECTION
Y-TYPE STRAINER
SIGHT GLASS
GAUGE GLASS W/COCKS
FILTER/DRYER
TANK AIR CONTROL FITTING
CAPPED/PLUGGED CONNECTION
REDUCER-INCREASER
EXPANSION LOOP
EXPANSION JOINT
ROOF DRAIN
POINT OF CONNECTION TO EXISTING SYSTEM
A — COMPRESSED AIR DROP
HU — HUMIDIFIER
I.F — INSULATING FLANGE
THERMAL RELIEF VALVE W/SIGHT FLOW INDICATOR
S — BASKET STRAINER
M — WATER METER
SAMPLE CONNECTION
FIRE SAFETY VALVE
C — NON-SURGE CHECK VALVE
FV — FLOW CONTROL VALVE
P — PRESSURE REGULATING VALVE
W — WATER SLUG VALVE(WSV)

Designed by	Shafiullah Eshaq	No	Submission Description	Date	Contract No
Drawn by	Shafiullah Eshaq	01	For Tender	14/12/2022	Contract Date
Checked By	Sabawoon				Field Year
Head of Department	Sabawoon				Drawn Code
Authorized By					Field Size
Field Date Check Date	Date				Date

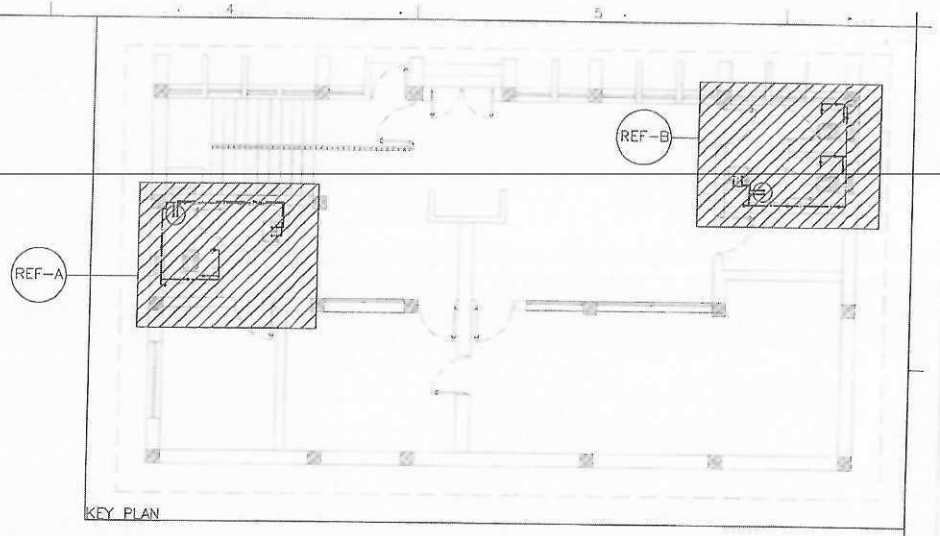
AFGHAN POST TYPICAL
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
PLUMBING SYMBOL & ABBREVIATIONS

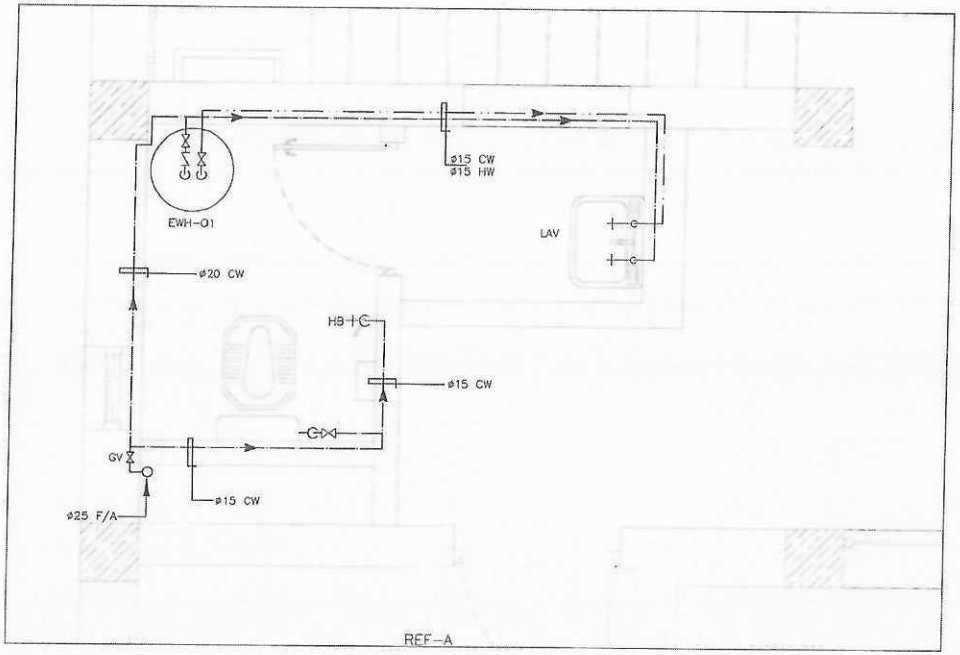
Sheet Reference Number
PL-02

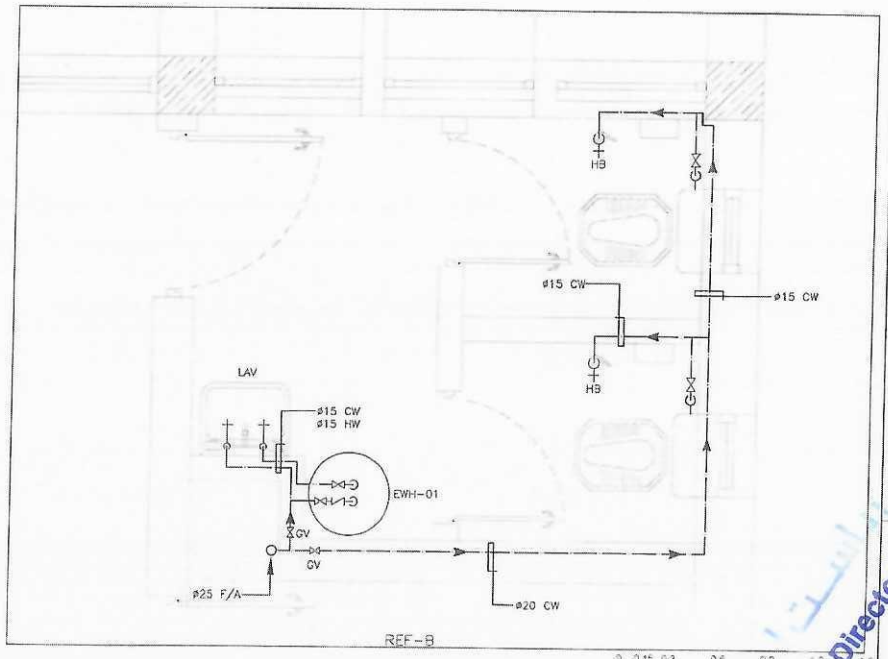
Afghan Post Main Directorate

GENERAL NOTES:

1. WATER CLOSETS SHALL BE ORIENTED NORTH AND SOUTH.
2. ALL PIPE SIZES ARE INDICATED IN MILLIMETERS AND SHOWN INSIDE DIAMETER.
3. ALL HOT AND COLD WATER PIPES SHALL BE INSTALLED INSIDE THE WALL OR UNDER SLAB.
4. SEE SHEET P-601 FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
5. ALL EXPOSE HOT WATER LINES SHALL BE PROPERLY INSULATED WITH 30mm RIDGED GLASS WOOL INSULATION AND COVER WITH 0.3mm ALUMINUM JACKET.
6. ALL INTERNAL HOT AND COLD WATER LINE SHALL BE PPR PN20 WITH PN25 FITTINGS AS PER STANDER DIN 8077 AND 8078.
7. SEWER, VENT PIPES AND FITTINGS SHALL BE PVC SCH40 ACCORDING TO ASTM-D1785 AND ASTM-D2665.
8. FOR INDIVIDUAL PLUMBING FIXTURES, WATER, SEWER PIPE SIZING AND SCHEDULES REEFER TO SHEET P-602.
9. FOR PLUMBING FIXTURES INSTALLATION, VENT THROW ROOF AND ELECTRICAL WATER HEATER DETAILS SEE SHEETS P-501, P-502 AND P-503.







GRAPHIC SCALE 1:30 (M)

01 HOT AND COLD WATER ENLARGED PLAN

P-101 REF. SCALE: 1:30

Designed by	Shafiullah Eshaq	No	Submission Description	Date	Contract No.	AFGHAN POST TYPICAL POST OFFICE
Drawn by	Shafiullah Eshaq	01	For Tender	1400/06/02	Contract Date	ALL PROVINCE OF AFGHANISTAN
Checked by	Nehmullah				Fiscal Year	POST OFFICE BUILDING
Approved by					Drawn Code	
					Paper Size	
					File Date	
					Scale	

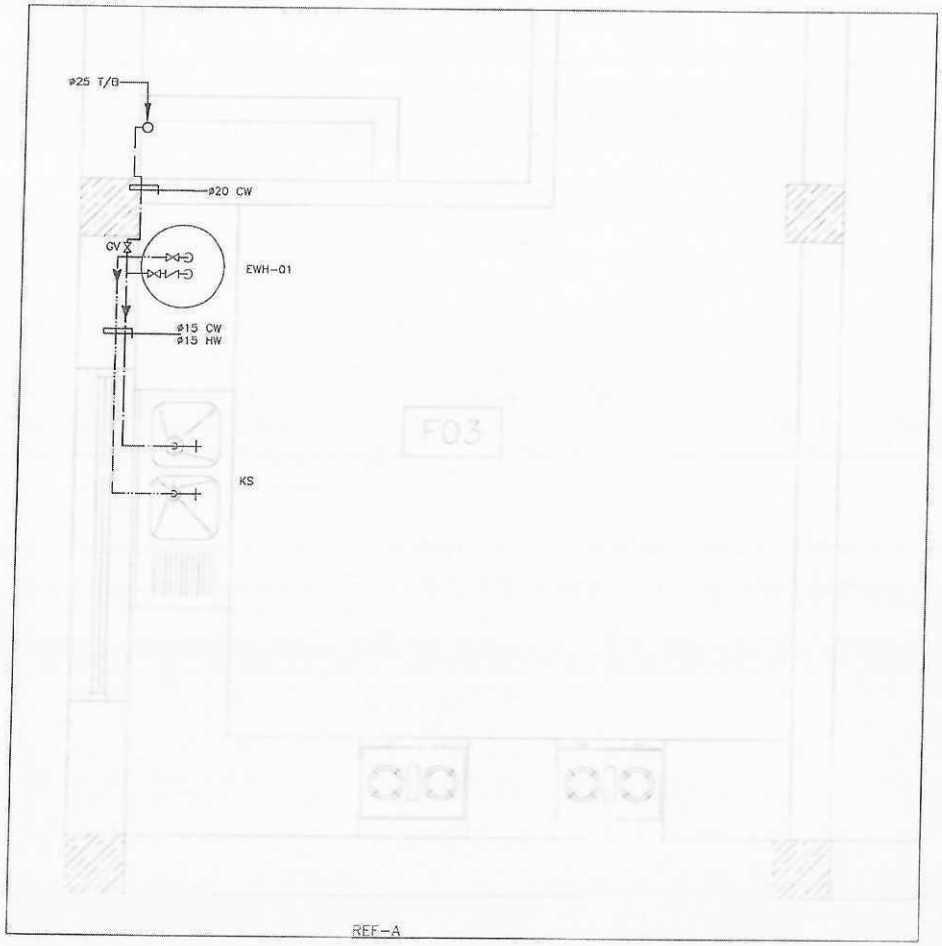
Shelf Reference Number

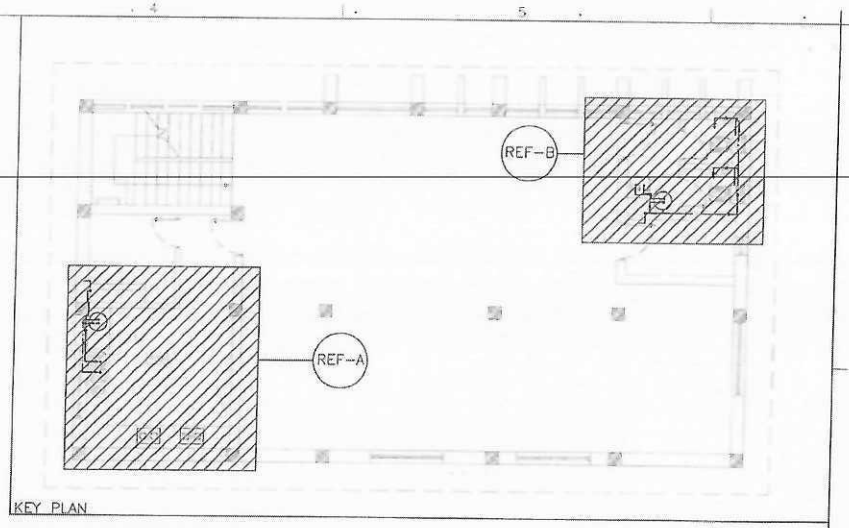
P-101

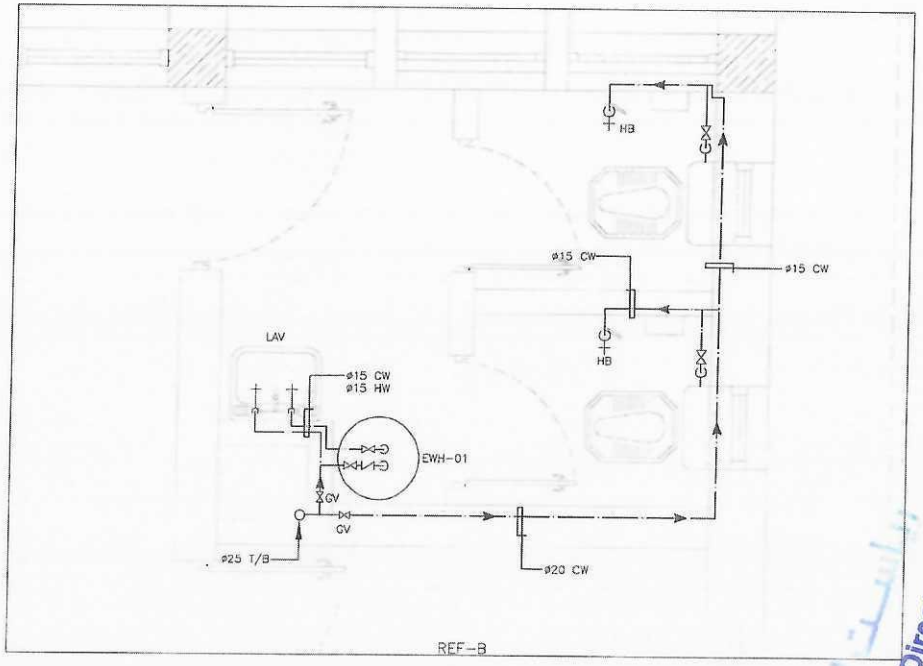
Directorate

GENERAL NOTES:

1. WATER CLOSETS SHALL BE ORIENTED NORTH AND SOUTH.
2. ALL PIPE SIZES ARE INDICATED IN MILLIMETERS AND SHOWN INSIDE DIAMETER.
3. ALL HOT AND COLD WATER PIPES SHALL BE INSTALLED INSIDE THE WALL OR UNDER SLAB.
4. SEE SHEET P-601 FOR PLUMBING SYMBOLS AND ABBREVATIONS.
5. ALL EXPOSE HOT WATER LINES SHALL BE PROPERLY INSULATED WITH 30mm RIDGED GLASS WOOL INSULATION AND COVER WITH 0.3mm ALUMINUM JACKET.
6. ALL INTERNAL HOT AND COLD WATER LINE SHALL BE PPR PN20 WITH PN25 FITTINGS AS PER STANDER DIN 8077 AND 8078.
7. SEWER, VENT PIPES AND FITTINGS SHALL BE PVC SCH40 ACCORDING TO ASTM-D1785 AND ASTM-D2665.
8. FOR INDIVIDUAL PLUMBING FIXTURES, WATER, SEWER PIPE SIZING AND SCHEDULES REEFER TO SHEET P-602.
9. FOR PLUMBING FIXTURES INSTALLATION, VENT THROW ROOF AND ELEGTRICAL WATER HEATER DETAILS SEE SHEETS P-501, P-502 AND P-503.







01	HOT AND COLD WATER ENLARGED PLAN
P-102	REF. SCALE: 1:30

GRAPHIC SCALE 1:30 (M)

Designed by: Shafiullah Eshaq
Drawn by: Shafiullah Eshaq
Checked by
Approved by

No	Submission Description	Date
01	For Tender	14/03/2022

Contract No
Contract Date
Facade Type: 14/03/2022
Drawn Date: NA
Fabrication: NA
Inst Date: 14/03/2022
Scale: 1:30

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
SECTION FOR HOT AND COLD WATER

Sheet Reference Number: P-102

Directorate

GENERAL NOTES:

1. THIS IS A TYPICAL GENERAL DRAWING. THE CONTRACTOR IS RESPONSIBLE TO ADAPT IT TO THE SITE CONDITION.
2. TOILETS SHALL BE ORIENTED NORTH AND SOUTH. TOILETS SHALL NOT FACE EAST OR WEST.
3. ALL PIPE SIZES ARE INDICATED IN MILLIMETERS AND SHOWN INSIDE DIAMETER.
4. SEE SHEET P601 FOR SCHEDULES.
5. ALL INTERNAL HOT AND COLD WATER LINE SHALL BE PPR PN20 WITH PN25B FITTINGS SEWER PIPE AND VENT PIPE SHALL BE UPVC SCH40.
6. FOR INDIVIDUAL PLUMBING FIXTURE WATER AND SEWER PIPE SIZING REEFER TO SHEET P502.
7. REEFER TO SHEET P501 AND P502 FOR ELECTRIC WATER HEATER VTR INSTALLATION DETAILS.

KEYNOTES:

01 HOT DIP GALVANIZED IRON WATER TANK WITH THICKNESS OF 3MM THE VOLUME OF EACH WATER TANK IS 2000LITERS. ITS SHAPE IS OPTIONAL CAN BE CYLINDER OR CUBIC TYPE. BUT ITS HEIGHT WILL BE 1.5 OF ITS WIDE

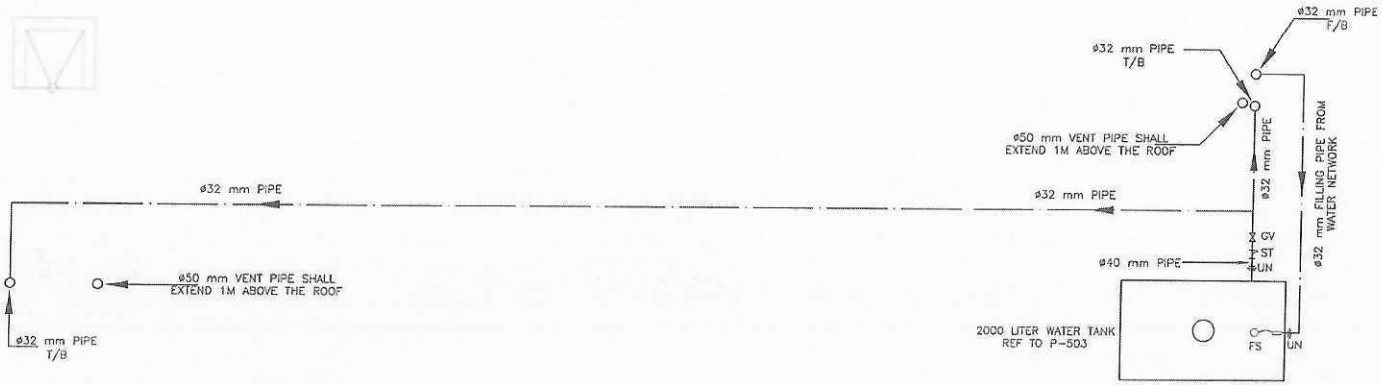
02 KEEP THE BASS OF THE WATER TANK 1200MM HIGH FORM THE ROOF REFER TO ARCHITECTURAL AND STRUCTURAL DRAWING FOR MORE DETAILS.

03 CONNECT WATER TANKS FILLING PIPE TO EXISTING WATER NETWORK.

04 THE SHOWN FLOUTING SWITCH (FS) WILL CONTROL THE FILLING PUMP OF WATER TANK AND PUMP SUPPLY IS NOT INCLUDED IN SCOPE

05 PLEASE PROVIDE PIPE 50MM RIGID PIPE INSULATION WITH ALUMINUM FOIL WITH ROOF AND WALL HANDING PIPE SUPPORT REFER TO DETAIL FOR MORE INFORMATION.

06 PROVIDE 50MM GLASS WOOL INSULATION WITH ALUMINUM FOIL FOR ROOF WATER TANKS.



01	ROOF WATER & SEWER PIPING PLAN
P102	REF. SCALE: 1:75

GRAPHIC SCALE 1:75 (M)

Designed by	Shafiullah Eskandar
Drawn by	Shafiullah Eskandar

No	Submission Description	Date
01	For Tender	14/09/2020

Contract No
Contract Date
Field Year 1402/1403
Check Date NE
Field Size A0
Plot Date 14/09/2020
Scale 1:75

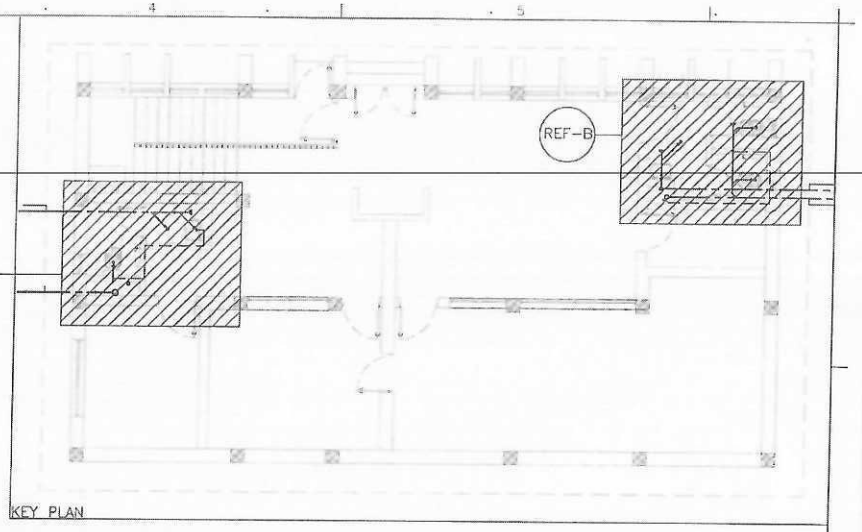
AFGHAN POST TYPICAL [illegible]
AL PROVINCE [illegible]
POST OFFICE BUILDING
ROOF PLAN
ROOF WATER PLAN

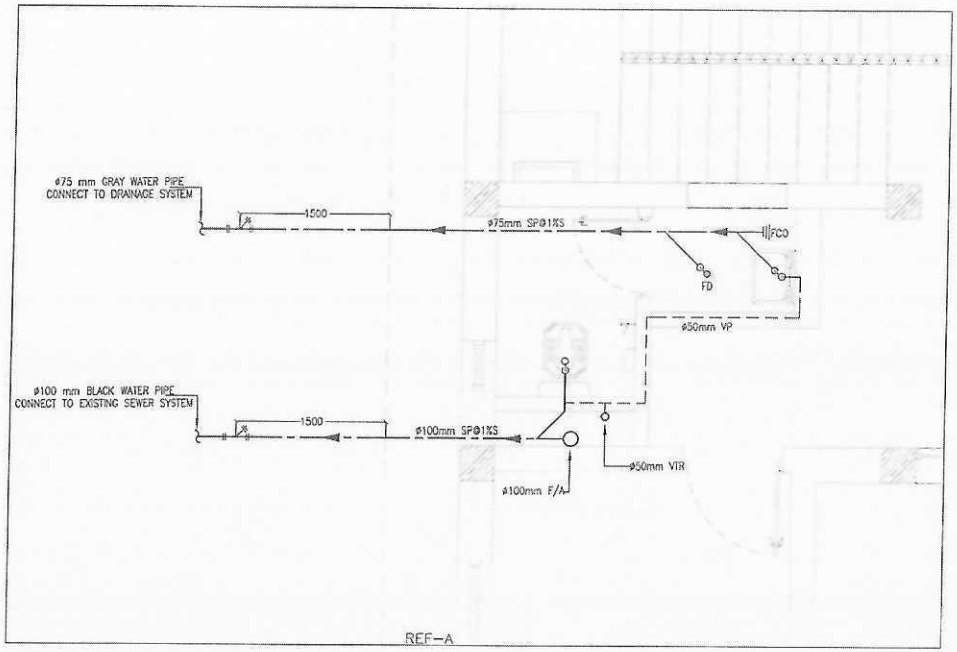
Shop Reference Number
P-102

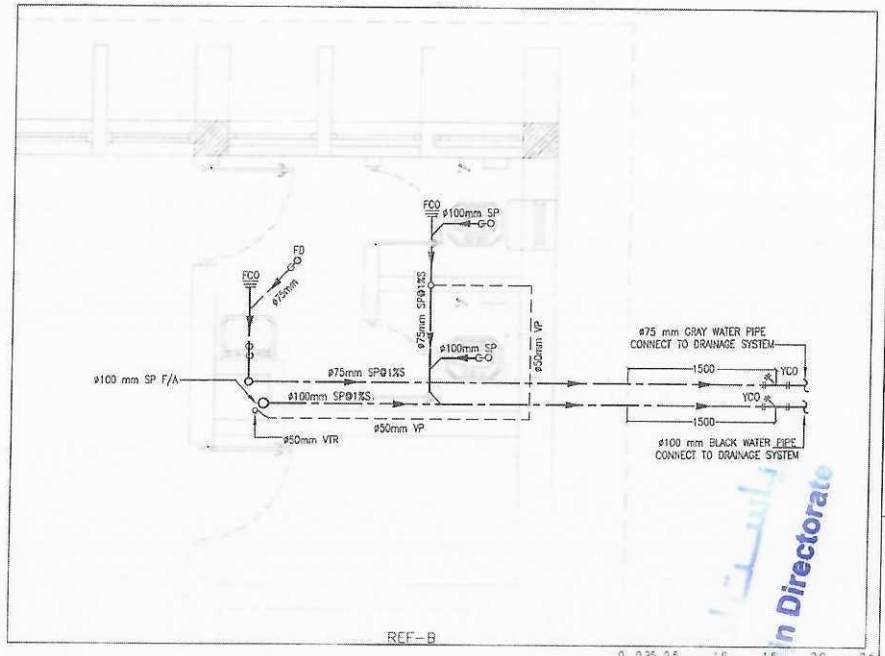
Directorate

GENERAL NOTES:

1. WATER CLOSETS SHALL BE ORIENTED NORTH AND SOUTH.
2. ALL PIPE SIZES ARE INDICATED IN MILLIMETERS AND SHOWN INSIDE DIAMETER.
3. ALL HOT AND COLD WATER PIPES SHALL BE INSTALLED INSIDE THE WALL OR UNDER SLAB.
4. SEE SHEET P-601 FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
5. ALL EXPOSE HOT WATER LINES SHALL BE PROPERLY INSULATED WITH 30mm RIDGED GLASS WOOL INSULATION AND COVER WITH 0.3mm ALUMINUM JACKET.
6. ALL INTERNAL HOT AND COLD WATER LINE SHALL BE PPR PN20 WITH PN25 FITTINGS AS PER STANDER DIN 8077 AND 8078.
7. SEWER, VENT PIPES AND FITTINGS SHALL BE PVC SCH40 ACCORDING TO ASTM-D1785 AND ASTM-D2665.
8. FOR INDIVIDUAL PLUMBING FIXTURES, WATER, SEWER PIPE SIZING AND SCHEDULES REEFER TO SHEET P-602.
9. FOR PLUMBING FIXTURES INSTALLATION, VENT THROW ROOF AND ELECTRICAL WATER HEATER DETAILS SEE SHEETS P-501, P-502 AND P-503.







01	SANITARY SEWER ENLARGED PLAN	
P-104	REF.	SCALE: 1:50

Designed by	Shahzaib Eshaq
Drawn by	Shahzaib Eshaq
Checked By	
Head of Department	
Approved by	

No	Submission Description	Date
01	For Tender	14/05/2020

Contract No
Contract Date
Fiscal Year
Sheet Date
Paper Size A3
Plot Date
Scale

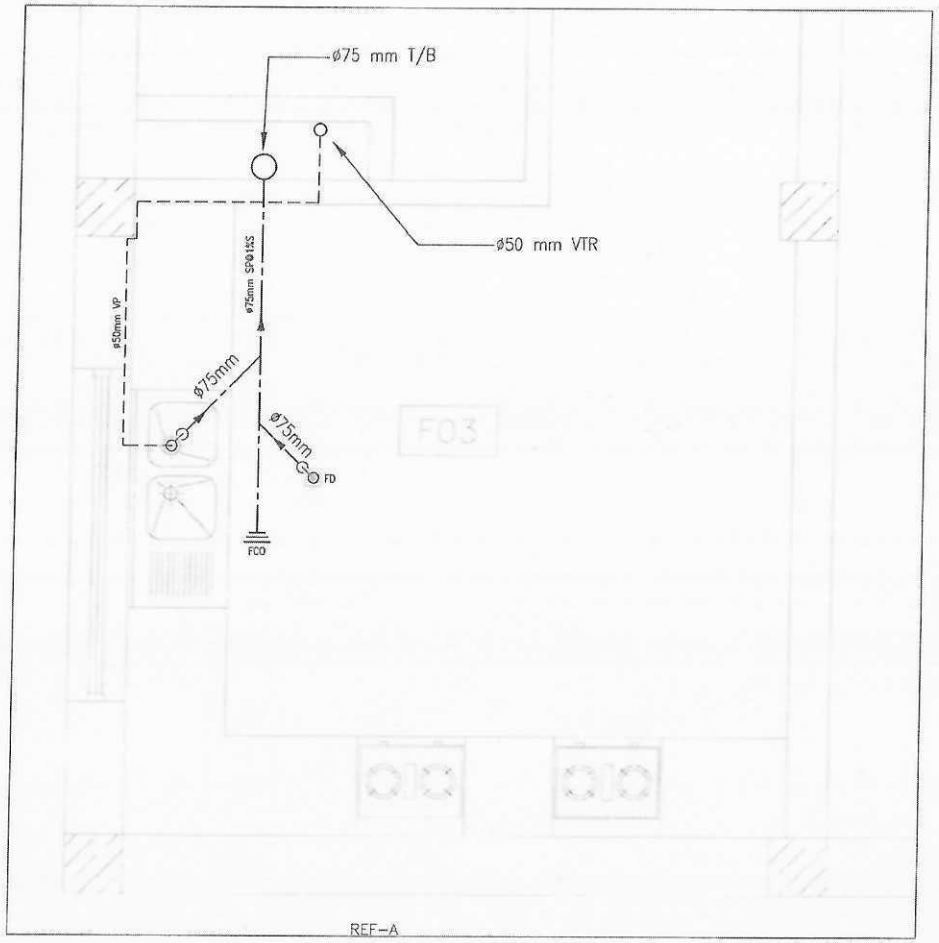
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
FIRST FLOOR SANITARY SEWER PLAN

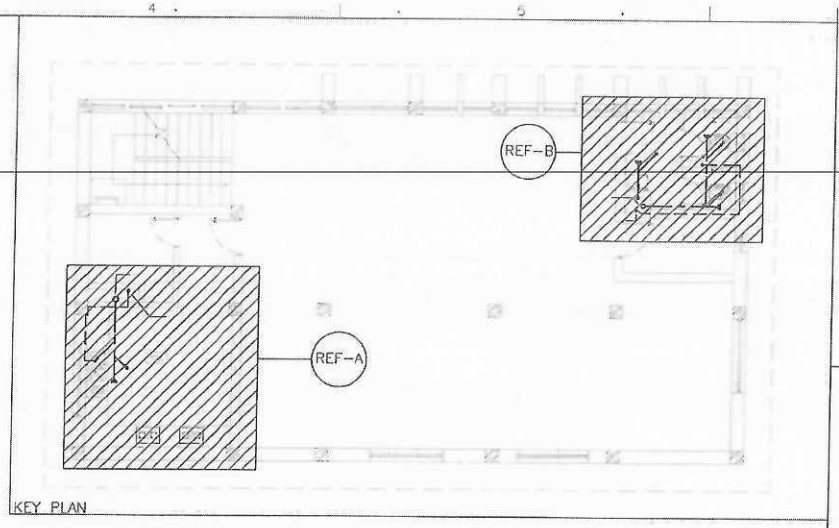
Sheet Reference Number
P-104

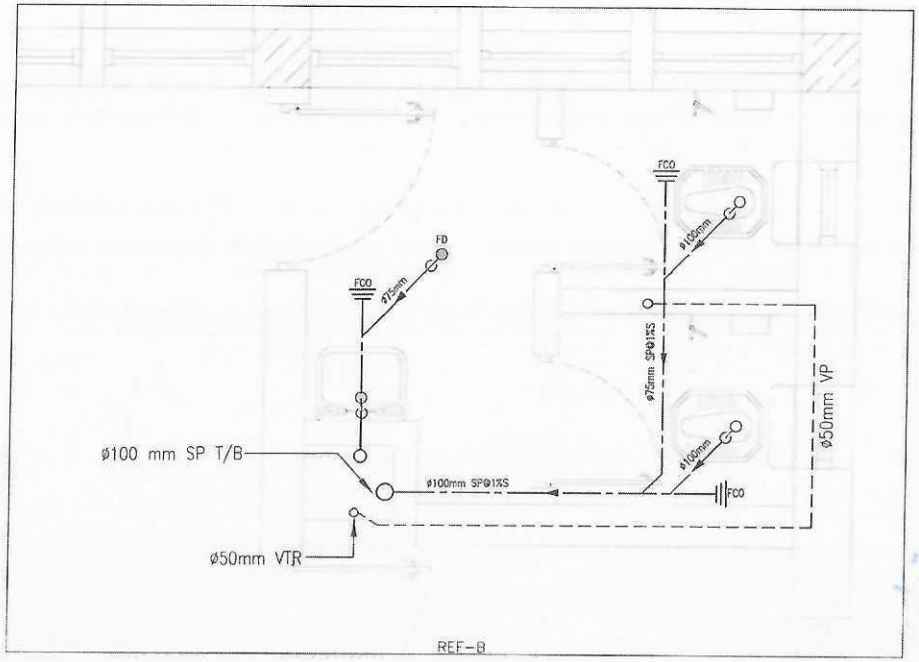
Directorate

GENERAL NOTES:

1. WATER CLOSETS SHALL BE ORIENTED NORTH AND SOUTH.
2. ALL PIPE SIZES ARE INDICATED IN MILLIMETERS AND SHOWN INSIDE DIAMETER.
3. ALL HOT AND COLD WATER PIPES SHALL BE INSTALLED INSIDE THE WALL OR UNDER SLAB.
4. SEE SHEET P-601 FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
5. ALL EXPOSE HOT WATER LINES SHALL BE PROPERLY INSULATED WITH 30mm RIDGED GLASS WOOL INSULATION AND COVER WITH 0.3mm ALUMINUM JACKET.
6. ALL INTERNAL HOT AND COLD WATER LINE SHALL BE PPR PN20 WITH PN25 FITTINGS AS PER STANDER DIN 8077 AND 8076.
7. SEWER, VENT PIPES AND FITTINGS SHALL BE PVC SCH40 ACCORDING TO ASTM-D1785 AND ASTM-D2665.
8. FOR INDIVIDUAL PLUMBING FIXTURES, WATER, SEWER PIPE SIZING AND SCHEDULES REEFER TO SHEET P-602.
9. FOR PLUMBING FIXTURES INSTALLATION, VENT THROW ROOF AND ELECTRICAL WATER HEATER DETAILS SEE SHEETS P-501, P-502 AND P-503.







01 SANITARY SEWER ENLARGED PLAN

P-105 REF. SCALE: 1:30

GRAPHIC SCALE 1:30 (M)

Designed by	Shafiullah Eshaq
Drawn by	Shafiullah Eshaq
Checked By Head of Department	
Approved By Vice Commissioner	

No.	Submission Description	Date
01	For Tender	1402/08/05

Contract No

Contract Date

Fiscal Year 1402/1404

Sheet Code SE

Paper Size A3

Plot Date 1402/08/15

Scale 1:30

AFGHAN POST TYPICAL POST OFFICE

ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING

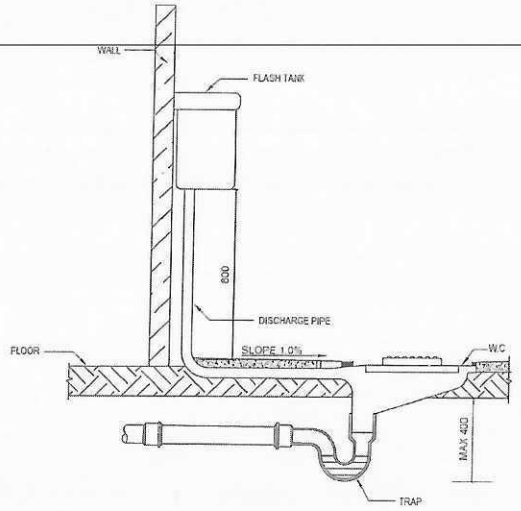
SECOND FLOOR SANITARY SEWER PLAN

Sheet

P-105

Directorate

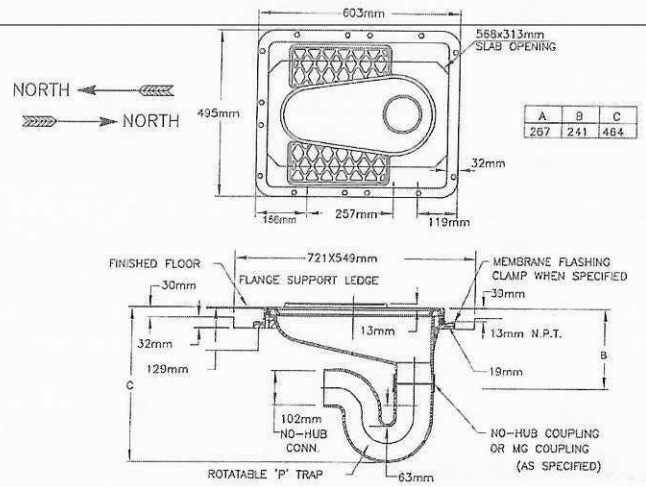
NOTES
1. PROVIDE 25mm THICK PIPE INSULATION WITH WEATHERPROOF METAL CLADDING ON EXPOSED WATER SERVICE PIPING.
2. PROVIDE FREEZE PROOF HOSE BIB.ANTI-SIPHON



01 | WATER CLOSET DETAIL (TYP)
P-501 | REF. | 1:50

NOTE:
1. IF WATER HEATER COMES EQUIPPED 'WITH A MOUNTING BRACKET,CONTRACTOR WILL SUBMIT TO THE ENGINEER FOR APPROVAL, ALTERNATE INSTALLATION DETAIL AS RECOMMENDED BY HEATER MANUFACTURER FOR THE TYPE OF WALL (CMU, METAL STUD, ETC.)APPLICABLE.
2. ALL WATER HEATERS SHOULD HAVE SEISMIC RATED MOUNTING BRACKET.

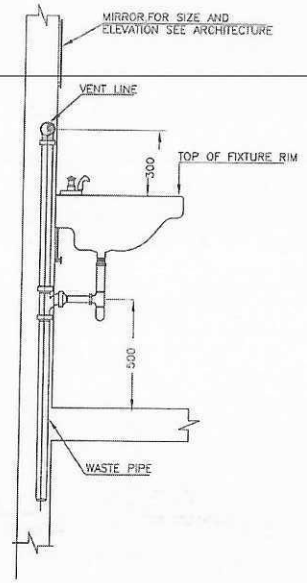
NOTES:
1. IN ADDITION TO INLET AND DISCHARGE PIPING, A HOSE BIB SHALL BE MOUNTED ON ADJACENT WALL
2. TRAP SHALL HAVE LIQUID SEAL NOT LESS THAN 51mm.
3. SLOPE FLOOR TOWARDS FIXTURE.
4. ALL TOILETS SHALL BE INSTALLED IN A NORTH/SOUTH ORIENTATION.
5. ALL EASTERN-TYPE WATER CLOSETS SHALL HAVE HOSE BIB INSTALLED ON OCCUPANT'S RIGHT-HAND SIDE.



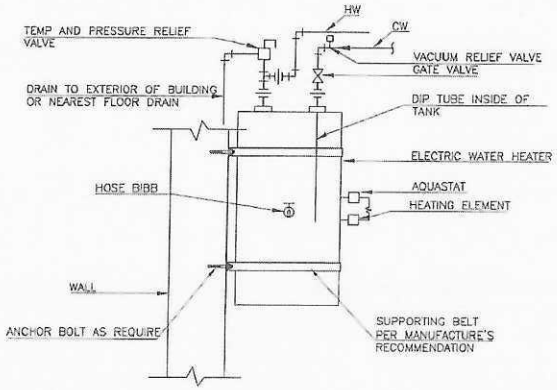
A	B	C
267	241	464

02 | EASTERN WATER CLOSET DETAIL (TYP)
P-501 | REF. | 1:50

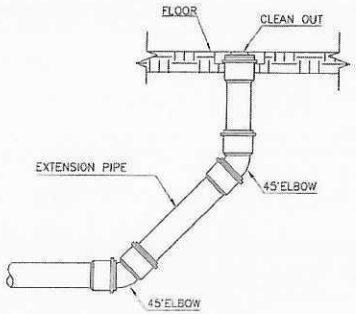
NOTE:
1. FOR PIPE SIZES SEE FLOOR PLAN.



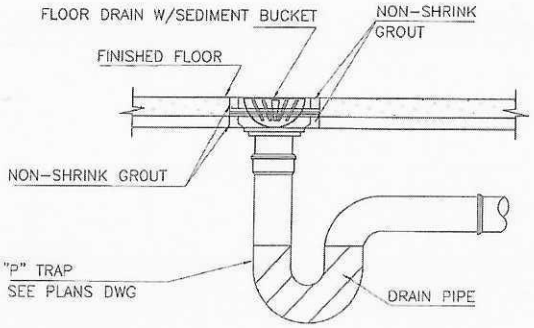
03 | PEDESTAL LAVATORY DETAIL (TYP)
P-501 | REF. | 1:50



04 | ELECTRIC WATER HEATER
P-501 | REF. | 1:50



05 | FORCE CLEAN OUT DETAIL
P-501 | REF. | 1:50



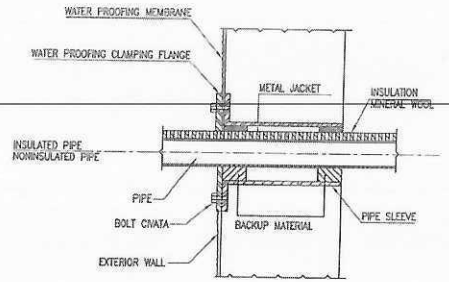
06 | FLOOR DRAIN DETAIL (TYP)
P-501 | REF. | 1:50

Designed by: Shafiullah Elkhas
Drawn by: Shafiullah Elkhas
Checked by: Head of Department
Approved by: Vice President

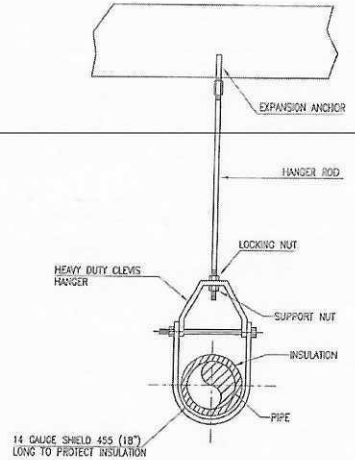
No	Submission Description	Date
01	For Tender	1400/04/06

Contract No:
Contract Date:
Date Year: 1400/1444
Scale: NS
Paper Size: A1
Project Date: 1400/04/01
Date: 7/7/21

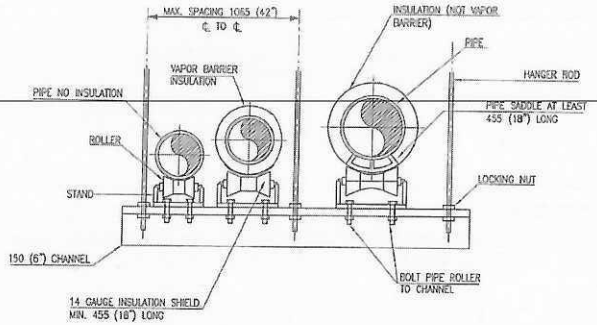
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
PLUMBING DETAILS
P-501



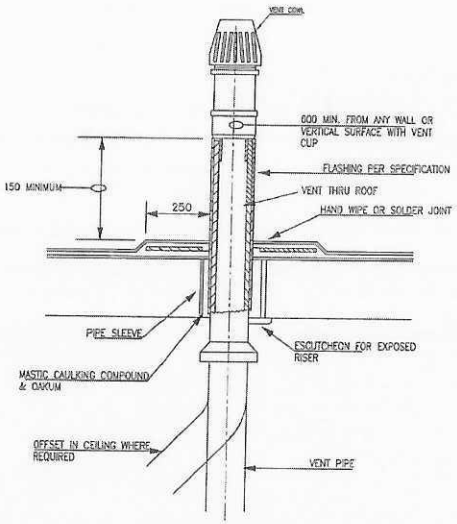
01 | PIPE SLEEVE THRU WALL
P-502 | REF. 1:50



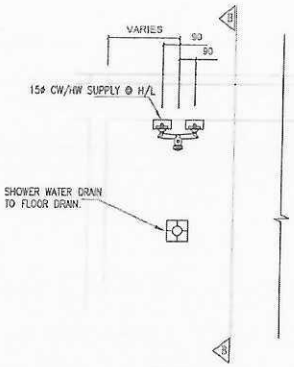
02 | PIPE HANGER DETAIL (TYP)
P-502 | REF. 1:50



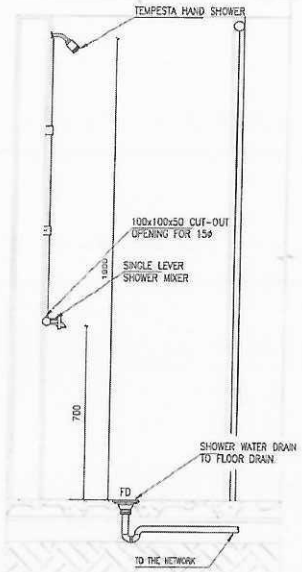
03 | TRAPEZE HANGER DETAIL
P-502 | REF. 1:50



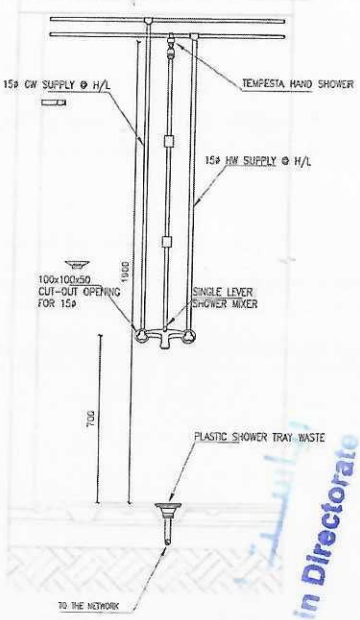
04 | VENT THRU ROOF DETAIL
P-502 | REF. 1:50



PLAN



SECTION A-A



SECTION B-B

05 | SHOWER INSTALLATION DEAILS
P-502 | REF. 1:50

Designed by: Shahulah Eshlaq
Drawn by: Shahulah Eshlaq
Checked by: Head of Department
Approved by: Chief Engineer

No	Submission Description	Date
01	For Tender	14/09/2020

Contract No:
Contract Date:
Fiscal Year: 1397-1444
Drawn Date: 1/2
Paper Size: A3
Position: 1:50
Scale: 1:50

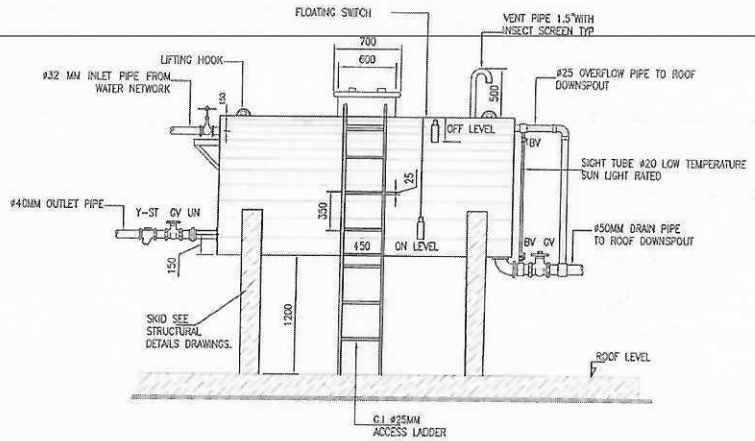
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
PLUMBING DETAILS

Drawing Number: P-502

Directorate

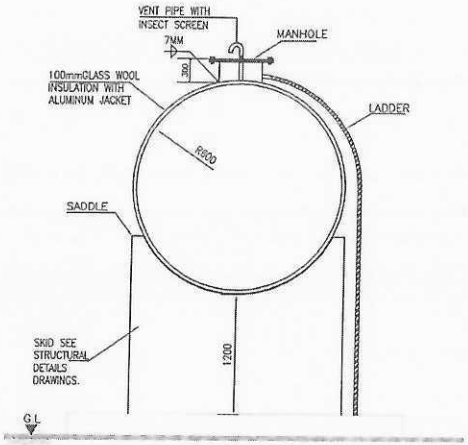
WATER STORAGE TANKS.

A. TANK SHALL MADE SINGLE WALL HOT DIP GALVANIZED IRON.
B. HOT DIP GALVANIZED IRON STEEL THICKNESS SHALL BE 3MM.
C. TANK SHALL HAVE SUPPORTS SADDLES PER STRUCTURES ENGINEER RECOMMENDATION.
D. ROOF WATER TANK CAPACITY IS 2000LITERS, TANK SIZE(L=2M, DIA=1.2M, WALL THICKNESS IS 3MM.
E. TANKS SHALL BE PER ATTACHED DRAWINGS (DIMENSIONS & OPENINGS
F. EXPOSED PIPES SHALL BE INSULATED & CLADED.
G. CONNECT WATER TANKS FILLING PIPE TO EXISTING WATER NETWORK OR WATER WELL.
H. THE SHOWN FLOAT SWITCH (FS) SHALL CONTROL THE FILLING PUMP OR WATER FROM WATER NETWORK.
I. ALL WATER PIPE ON ROOF SHALL INSULATED WITH RIGID PIPE INSULATION WITH ALUMINUM FOIL. ROOF AND WALL PIPE HANGING SUPPORT SHALL PROVIDED AS PER DRAWINGS. WATER SUPPLY PUMP IS NOT THE PART OF THIS PROJECT.
J. WATER TANK SHALL INSULATED WITH 50MM CLASS WOOL INSULATION.

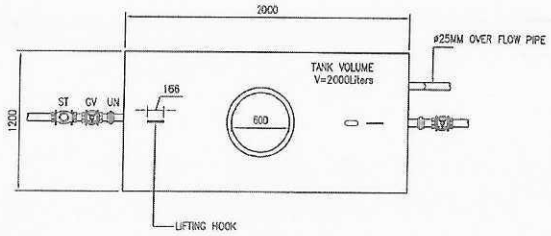


02 | WATER TANK ELEVATION
P-503 | REF. P-104 | 1:50

ALL PIPE BETWEEN QUICK CONNECT AND TURN UP SHALL BE GI PIPE ALL FITTINGS SHALL BE BRASS



03 | SECTION A-A
P-503 | REF. P-104 | 1:50



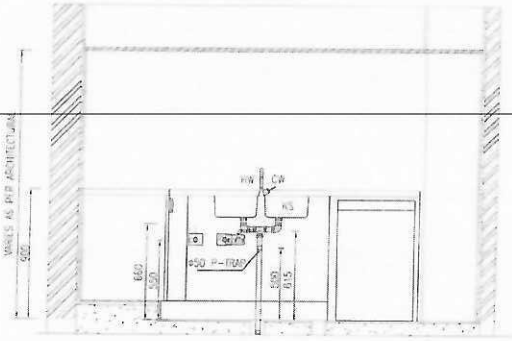
01 | ROOF MOUNTED WATER TANK PLAN
P-503 | REF. P-104 | 1:50

Designed by
Drawn by
Checked by
Approved by

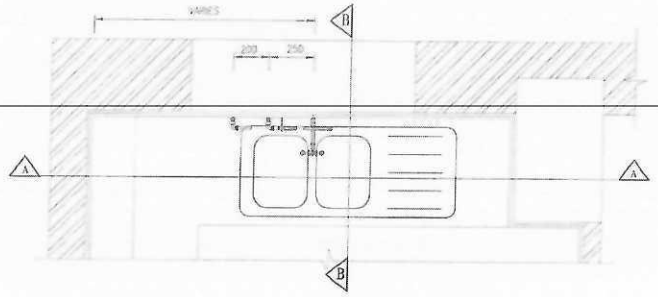
No	Submission Description	Date
2	For Tender	1400/06/20

Contract No
Contract Date
Fiscal Year
Drawn Code
Area Code
Plot Date
Scale

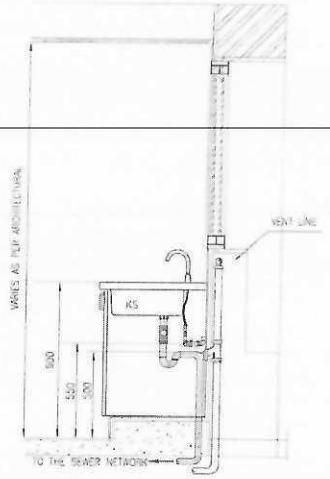
AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING
ROOF MOUNTED WATER TANK PLAN AND SECTION



SECTION A-A

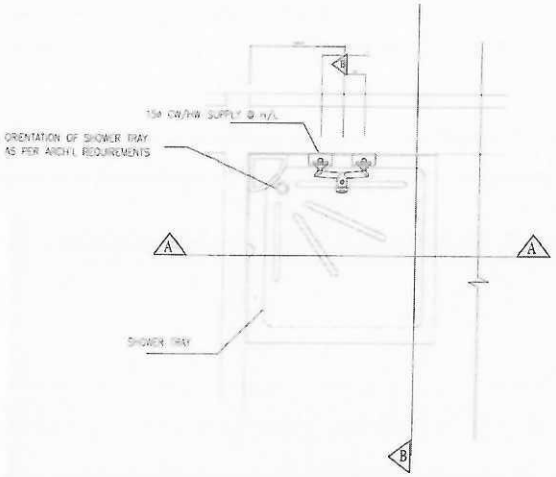


PLAN

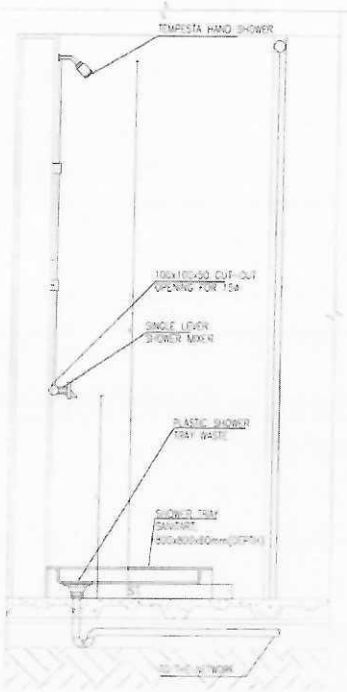


SECTION B-B

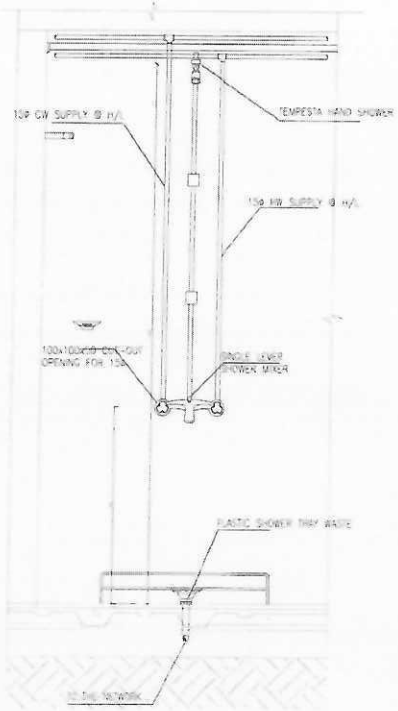
02	KITCHEN SINK INSTALATION DETAIL
P-504	REF. NTS



PLAN



SECTION A-A



SECTION B-B

02	SHOWER INSTALATION DETAIL
P-504	REF. NTS

Designed by	Shahulah Eshaq	No.	Submission Description	Date	Contract No.
Drawn by	Shahulah Eshaq	01	For Tender	1402/08/20	Contract Date
Checked by					Paper Year 1402FY404
Head of Department	Nasir Ali				Drawn Code V2
Approved by					Paper Size A3
Year Of Project	1401				Print Date 1402/08/20
					Scale NTS

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN

POST OFFICE BUILDING
PLUMBING DETAILS

Drawing Number P-504

Directorate

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	SYMBOLS	FIXTURES	CW mm/IN	HW mm/IN	VENT mm/IN	WASTE mm/IN	REMARKS
P1	WC	WATER CLOSET	15mm(1/2 in)	-	50mm (2 in)	100mm (4 in)	EASTERN TYPE
P2	WC	WATER CLOSET	15mm(1/2 in)	-	50mm (2 in)	100mm (4 in)	WESTERN TYPE
P3	ST	SHOWER TRAY	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-
P4	LAV	BASIN LAVATORY	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-
P5	HB	HOSE BIBB	15mm(1/2 in)	-		-	-
P6	WM	WASHING MACHINE	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-
P7	EWH	ELECTRIC WATER HEATER	15mm(1/2 in)	-	-	-	-
P8	FD	FLOOR DRAIN	-	-	50mm (2 in)	75mm (3 in)	-
P9	FCO	FLOOR CLEANOUTS	-	-	-	100mm-150mm (4 in-6 in)	-
P10	MS	MOP SINK	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-
P11	HB	YARD ANTI-FREEZE TAP	20mm(3/4 in)	-	-	-	-
P12	AB	ABLUTION BIBB	15mm(1/2 in)	15mm(1/2 in)	-	-	-
P13	LS	LABORATORY SINK	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-
P14		TAP FOR FLOOR WASHING	20mm(3/4 in)	-	-	-	-
P15	PS	POT SINK	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-
P16	PL	PRISON LAVATORY	15mm(1/2 in)	15mm(1/2 in)	50mm (2 in)	50mm (2 in)	-

NOTE:
1. THE ABOVE HOT AND COLD WATER SHOWN PIPE SIZE ARE THE MINIMUM AND INSIDE DIAMETER.

EWH- ELECTRICAL WATER HEATER SCHEDULE

SYMBOL	CAPACITY LITER	ELECTRICAL DATA				REMARK
		VOLT	PHASE	HZ	KW	
EWH-01	50	220	1	50	1.5	
EWH-02	80	220	1	50	2	
EWH-03	100	220	1	50	2	

NOTE:
ELECTRICAL WATER HEATER SHALL BE PRO-ARISTON OR EQUIVALENT PRODUCT

TABLE 2

MAXIMUM HORIZONTAL PIPE HANGER AND SUPPORT SPACING FROM MSS SP-96

COLUMN		1		2		3		4		5	6	7	8
NOMINAL PIPE OR TUBING DIAMETER		STANDARD WEIGHT STEEL PIPE				COPPER TUBE				FIRE PRO-TECTION	CAST OR DUCTILE IRON PIPES	CAST IRON SOIL	PLASTIC
		WATER SERVICE		VAPOR SERVICE		WATER SERVICE		VAPOR SERVICE					
in	mm	ft	m	ft	m	ft	m	ft	m	FOLLOW THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION	12 ft (3.7m) MAX SPACING; MIN OF ONE HANGER PER PIPE SECTION CLOSE TO JOINT ON BARREL ALSO AT CHANGE OF DIRECTION AND BRANCH CONNECTIONS	10 ft (3.0m) MAX SPACING; MIN OF ONE HANGER PER PIPE SECTION CLOSE TO JOINT ON BARREL ALSO AT CHANGE OF DIRECTION AND BRANCH CONNECTIONS	FOLLOW PIPE MANUFACTURER'S RECOMMENDATIONS FOR
1/4	6	7	2.1	8	2.4	5	1.5	5	1.5				
3/8	10	7	2.1	8	2.4	5	1.5	6	1.8				
1/2	13	7	2.1	8	2.4	5	1.5	6	1.8				
3/4	20	7	2.1	9	2.7	5	1.5	7	2.1				
1	25	7	2.1	9	2.7	6	1.8	8	2.4				
1-1/4	30	7	2.1	9	2.7	7	2.1	9	2.7				
1-1/2	40	9	2.7	12	3.7	8	2.4	10	3.0				
2	50	10	3.0	13	4.0	8	2.4	11	3.4				
2-1/2	65	11	3.4	14	4.3	9	2.7	13	4.0				
3	75	12	3.7	15	4.6	10	3.0	14	4.3				
4	100	14	4.3	17	5.2	12	3.7	16	4.9				
5	125	16	4.9	19	5.8	13	4.0	18	5.5				
6	150	17	5.2	21	6.4	14	4.3	20	6.1				
8	305	19	5.8	24	7.3								
10	255	22	6.1	26	7.9								
12	305	23	7.0	30	9.1								
14	355	25	7.6	32	9.8								
16	405	27	8.2	35	10.7								

NOTES:
1-THERE ARE CONCENTRATED LOADS BETWEEN SUPPORTS SUCH AS DOES NOT APPLY WHERE SPAN CALCULATIONS ARE MADE OR WHERE FLANGES, VALVES SPECIALTIES, ETC., OR CHANGES IN DIRECTION REQUIRING ADDITIONAL SUPPORTS.

EQUIVALENT PIPE INSIDE DIMETERS:

DESIGN PIPE DIA(mm)	POLYPROPYLENE (PPR), PN20 SDR-6, INTERNAL DIA(mm)	POLYPROPYLENE (PPR), PN20 SDR-6, OUT DIA(mm)	PE-80, PN16 INTERNAL DIA(mm)	PE-80, PN16 OUT DIA(mm)
15	16.6	25	15.4	20
20	21.2	32	19.4	25
25	26.6	40	24.8	32
32	33.4	50	31	40
40	42	63	39.8	50
50	50	75	49.8	63
63	60	90	69.6	90
75	73.4	110	85.4	110

NOTE:
- ALL EXPOSED PIPING WILL BE INSULATED WITH BLANKETS INSULATION/INSTALLED IN ALUMINUM JACKET. (REQUIRED THICKNESS FOR FREEZING CONDITIONS OF -10C°).
- DESIGN ARE ACCOMPLISHED PER DESIGN DIAMETER OF PIPE THEREFOR, DURING CONSTRUCTION OF THE WATER SUPPLY SYSTEM BE CAREFUL TO CHOSE CORRECT PIPE SIZE.

01 PLUMBING SCHEDULES

P-601 REF. SCALE: NTS

Designed by: Shah Jan Eshaq
Drawn by: Shah Jan Eshaq
Checked By
Approved By

No.	Submission Description	Date
01	For Tender	1400/08/05

Contract No.
Contract Date
Field Visit
Drawn Date
Plotter Size
Plot Date

AFGHAN POST TYPICAL POST OFFICE
ALL PROVINCE OF AFGHANISTAN
POST OFFICE BUILDING

Sheet Reference Number
P-601

Directorate