

GENERAL ELECTRICAL LEGEND

LIGHTING LEGEND

	1x250W, HID METAL HALIDE, PENDENT LIGHT FIXTURE, IP20, 220V, 50HZ, MINIMUM MOUNTING MIN HEIGHT 3000MM, MAXIMUM 4000MM.
	1x165W, HID METAL HALIDE, PENDENT LIGHT FIXTURE, IP20, 220V, 50HZ, MINIMUM MOUNTING HEIGHT 3000MM, MAXIMUM 4000MM.
	1x18 W , WALL MOUNTED ABOVE MIRROR LIGHTING FIXTURE, MOUNTING HEIGHT DEPENDS TO THE MIRROR HEIGHT, WATER PROOF, IP 54, 220V, 50 Hz.
	2x36 W , SURAFCE MOUNTED FLUORESCENT LIGHTING FIXTURE, IP 20, 220V, 50 Hz, MOUNTING HEIGHT 2500mm ABOVE F.F.L
	2x36 W , SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE, WATER PROOF, IP 54, 220V, 50 Hz, MOUNTING HEIGHT 2500mm ABOVE F.F.L
	2x26 W , WALL MOUNTED FLUORESCENT LIGHTING FIXTURE, IP 20, 220V, 50 Hz, MINIMUM HEIGHT 2500mm ABOVE F.F.L
	4x18 W , RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURE, IP 20, 220V, 50 Hz, MOUNTING HEIGHT 2500mm ABOVE F.F.L
	1x 400W ,WALL MOUNTED HID METAL HALIDE LIGHTING FIXTURE, WEATHER PROOF, IP54, 220 V, 50Hz, MINIMUM MOUNTING HEIGHT 5000mm ABOVE F.F.L
	1x 18W ,WALL MOUNTED EMERGENCY LIGHTING FIXTURE, IP 20 220V 50.Hz, MINIMUM MOUNTING HEIGHT 2100mm ABOVE A.F.F
	1x5W, SINGLE SIDED EXIT LIGHT WITH BATTERY PACK TO OPERATE 90MIN 220V, 50Hz, MINIMUM MOUNTING HEIGHT 2500mm ABOVE F.F.L
	1x5 W , DOUBLE SIDED EXIT LIGHT WITH BATTERY PACK TO OPERATE 90 MIN , 220V, 50 Hz, MOUNTING HEIGHT 2400mm ABOVE F.F.L
	SINGLE POLE LIGHTING SWITCH, 10A, 220V, 50Hz, MOUNTING HEIGHT 1200mm ABOVE F.F.L
	SINGLE POLE LIGHTING SWITCH, WATER PROOF, IP54, 20A, 220V, 50, Hz, MOUNTING HEIGHT 1200mm ABOVE F.F.L
	3WAY LIGHTING SWITCH, 20A, 220 V 50Hz, MOUNTING HEIGHT 1200mm ABOVE F.F.L
	4WAY LIGHTING SWITCH, 20A, 220V , 50Hz, MOUNTING HEIGHT 1200mm ABOVE F.F.L

GENERAL POWER LEGEND

	FIRE EXTINGUISHER
	1PH BREAKER (AUTOMATIC SWITCH)
	3PH BREAKER SYSTEM (AUTOMATIC SWITCH)
	CIRCUIT HOME RUN TO ELECTRICAL PANEL BOARD
	CONTACTOR
	FUSE
	POWER ON
	POWER OFF

POWER & COMMUNICATION LEGEND

	NON-FUSIBLE SAFETY DISCONNECT SWITCH, THREE PHASE, WALL MOUNTED, 40A, 380V, 50Hz, MOUNTING HEIGHT 1500mm ABOVE F.F.L
	NON-FUSIBLE SAFETY DISCONNECT SWITCH, SINGLE PHASE, WALL MOUNTED, 30A, 220V, 50Hz, MOUNTING HEIGHT 1500mm ABOVE F.F.L
	NON-FUSIBLE SAFETY DISCONNECT SWITCH, WATER PROOF, SINGLE PHASE, WALL MOUNTED, 30A, 220V, 50Hz, MOUNTING HEIGHT 1500mm ABOVE F.F.L
	MOTOR STARTING SWITCH FOR CEILING FAN, WALL MOUNTED, 10A, 220V, 50Hz, MOUNTING HEIGHT 1200mm ABOVE F.F.L
	DUPLEX RECEPTACLE, 20A, 220V, 50Hz, MOUNTING HEIGHT 450mm ABOVE F.F.L
	GROUND-FAULT CIRCUIT-INTERUPTER (GFCI) DUPLEX RECEPTACLE, 20A, 220V, 50Hz, MOUNTING HEIGHT 450mm ABOVE F.F.L
	WATER PROOF (WP) DUPLEX RECEPTACLE, 20A, 220V, 50Hz, MOUNTING HEIGHT 450mm ABOVE F.F.L
	SINGLE POWER RECEPTACLE, WALL MOUNTED, 30A, 220V, 50Hz.
	ELECTRICAL PANEL BOARD.
	MDP (MAIN DISTRIBUTION PANEL).
	SDP (SUB DISTRIBUTION PANEL).
	CONTROL PANEL FOR INTERLOCKING EXHAUST FAN WITH MOTORIZED DAMPER
	DATA / TELEPHONE BOX, MOUNTING HEIGHT 450mm ABOVE F.F.L
	TNDP/DNDP (TELEPHONE NETWORK DISTRIBUTION PANEL & DATA NETWORK DISTRIBUTION PANEL)

FIRE ALARM & GROUNDING & LIGHTNING LEGEND

	SINGLE STATION SMOKE ALARM, PHOTO ELECTRIC, 220 VAC, 50 Hz, WITH 9 VDC BATTERY BACKUP.
	SINGLE STATION HEAT ALARM, PHOTO ELECTRIC, 220 VAC, 50 Hz, WITH 9 VDC BATTERY BACKUP.
	EXOTHERMIC WELD
	PIT FOR GROUND ROD (80X80X80)MM
	Ø20mm DIAMETER , COPPER GROUNDING ROD, 3 METER LENGTH
	T-SPLICE EXOTHERMIC WELD
	600mm COPPER AIR TERMINAL
	ATS (AUTOMATIC TRANSFER SWITCH).
	ELECTRICAL SWITCH BOARD

GENERAL ELECTRICAL NOTES:

- RECEPTACLES LEVEL ARE 450mm & 1200mm.
- ELECTRICAL PANEL LEVEL IS 1800mm TO THE HIGHEST.
- ALL EXTERNAL CABLE P.V.C CONDUIT ARE UNDER GROUND, 4 INCHES 100MM.
- THE GROUNDING RESISTANCE SHALL NOT EXCEED 25 OHMS PER NEC 250.52.
- THE HEIGHT OF EMERGENCY LIGHT FIXTURE ARE 2100mm FROM F.F.L.
- ALL RECEPTACLES IN WET AND DAMP LOCATIONS SHALL BE WATER PROOF OR G.F.C.I TYPE.
- EACH EXHAUST FAN SHALL BE PROVIDED WITH MOTORIZED OR GRAVITY DAMPERS WHICH CLOSE AUTOMATICALLY WHEN THE FAN IS NOT RUNNING.
- ALL RECEPTACLES FOR ELECTRICAL HEATERS ARE 1500 mm ABOVE F.F.L.
- EMERGENCY LIGHT AND EXIT LIGHT ARE INSTALLED WITHOUT ANY SWITCHES.
- POWER RECEPTICAL SHALL BE INSTALLED ACCORDING TO THE MECHANICAL (SPLIT UNIT) EQUIPMENT'S SIZE & HEIGHT.
- PVC CONDUIT EXPOSED IN 50 DEGREES AMBIENT TEMPERATURE SHALL BE SCHEDULE 80.
- PVC CONDUIT SHALL BE IN ACCORDANCE WITH THE NEC 352.
- TVSS SHALL BE INSTALLED IN ALL BUILDING PANEL SERVING ELECTRONIC LOAD, FOR INSTALLATION SEE SITE MDP SINGLE LINE DIAGRAM.
- ALL ELECTRICAL PANELS SHALL HAVE CIRCUIT BREAKERS TYPES OF RCCB AND ELCB.
- COLOR CODE IS INCLUDED IN EACH PANEL SCHEDULE & SINGLE LINE DIAGRAM SHEETS.
- 1x250W SUSPENDED METAL HALIDE TYPE B LIGHTING FIXTURE SHALL BE SHOCK PROOF FOR NOT BEING DAMAGED.
- ALL BRANCH CIRCUIT WIRING SHALL BE COPPER, MINIMUM #4 MM2 (#12 AWG) INSTALLED IN METAL CONDUIT. ALL ELECTRICAL POWER CONDUCTORS #4 MM2 AND #6 MM2 SHALL BE SOLID COPPER. ALL OTHER SIZES SHALL BE STRANDED COPPER.
- FOR CKT's THAT SERVES ELECTRICAL FIXTURES IN WET AREAS, CIRCUIT BREAKER'S SHALL BE RESIDUAL CURRENT BREAKERS W/ OVERLOAD (RCBO), GROUND FAULT PROTECTOR (GFP), OR GROUND FAULT CIRCUIT INTERRUPTER (GFCI).
- CONTRACTOR SHALL PROVIDE ONE PATCH PANEL PORT PER DATA OUTLET PLUS 20% SPARE. THE LARGEST PATCH PANEL ALLOWED SHALL BE 48 PORT AND THE SMALLEST 12 PORT. WHERE THE 12 PORT IS USED, IT SHALL BE MOUNTED ON AN 89 TYPE BLOCK FRAME FOR THE STATION CABLES.

GENERAL ELECTRICAL ABBREVIATION:

- A - AMP
- A.F.F.L - ABOVE FINISH FLOOR LEVEL
- CB - CIRCUIT BREAKER
- CON - CONDUIT
- CF - CEILING FAN
- CU - CONDENSING UNIT
- D.B - DATA BOX
- D.N.D.P - DATA NETWORK DISTRIBUTION PANEL
- EH - ELECTRICAL HEATER
- E.F - EXHAUST FAN
- EWH - ELECTRICAL WATER HEATER
- GFCI - GROUND FAULT CIRCUIT INTERRUPTER
- HH - HAND HOLE
- HZ - HERTZ
- L.F - LIGHTING FIXTURE
- M - METER
- MAX - MAXIMUM
- EMT - ELECTRICAL METALLIC TUBING
- M.H - MAN HOLE
- M.H - MOUNTING HEIGHT
- MDP - MAIN DISTRIBUTION PANEL
- N.T.S - NOT TO SCALE
- PVC - POLY VINYL CHLORIDE
- P.B - PANEL BOARD
- SU - SPLIT UNIT
- TYPE - TYPICAL
- T.B - TELEPHONE BOX
- T.N.D.P - TELEPHONE NETWORK DISTRIBUTION PANEL
- UH - UNIT HEATER
- V - VOLT
- WP - WATER PROOF
- P - POWER RECEPTACLE
- L - LIGHTING
- TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSOR
- S.B - SWITCH BOARD
- EMT - ELECTRICAL METALLIC TUBE
- ATS - AUTOMATIC TRANSFER SWITCH
- MAX - MAXIMUM
- MIN - MINIMUM

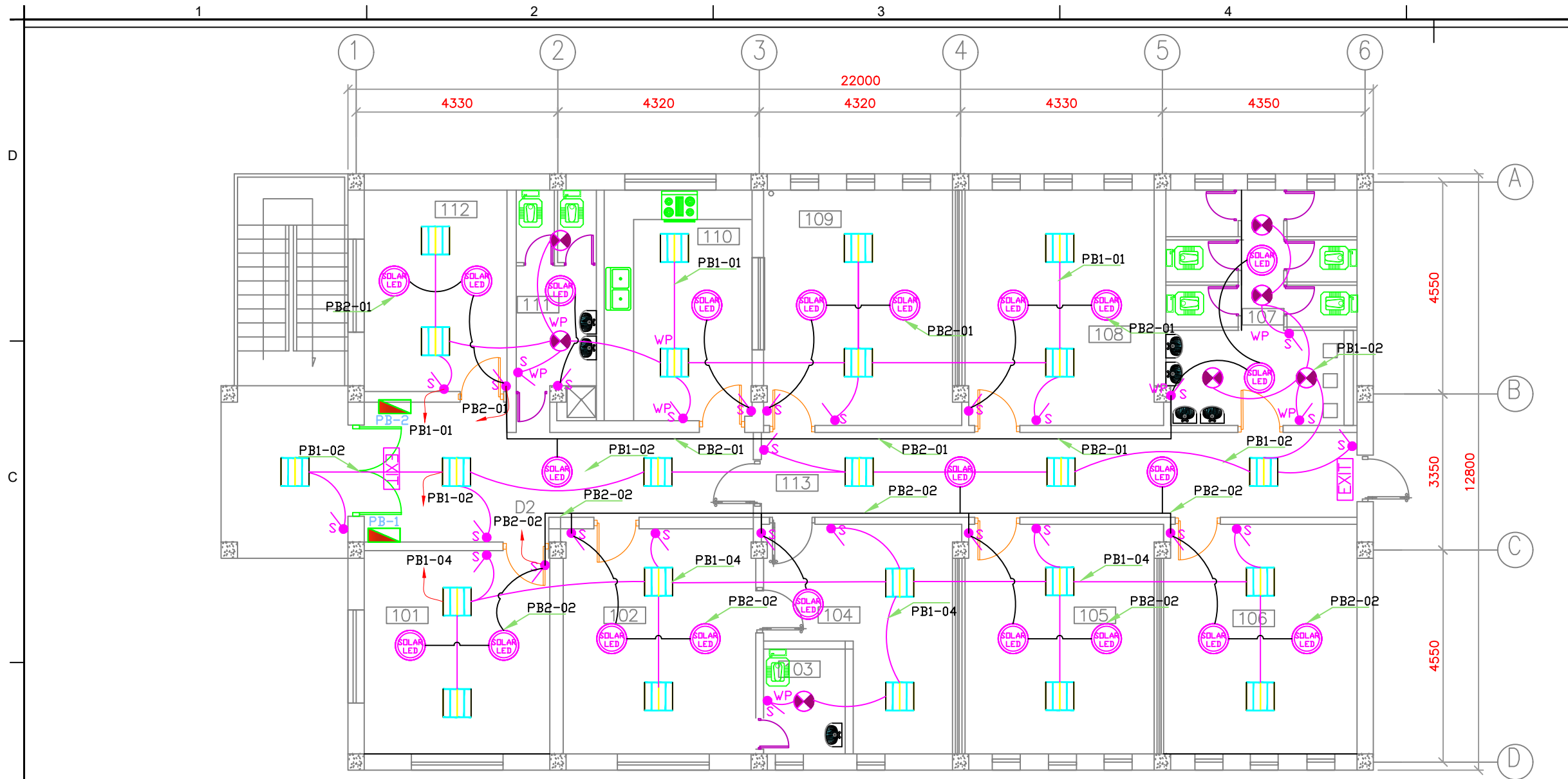
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ISSUED FOR SUBMITTAL		XX
FIRST ISSUE		XX
REV No		APPROVED
DATE		

SCAL 1:100

DESIGNED BY:	Mr. 28.2020	SUBMITTED BY:	Mr. 28.2020
CHECKED BY:	Mr. 28.2020	UNPROLOTA	CONTRACT NO:
APPROVED BY:	Mr. 28.2020	XX	TO: 01

UNITED NATIONS DEVELOPMENT PROGRAM
LOTFA PROJECT AFGHANISTAN
KABUL, AFGHANISTAN
ENGINEERING DIVISION
PERS PROJECT

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PHQ GROUND FLOOR LIGHTING PLAN

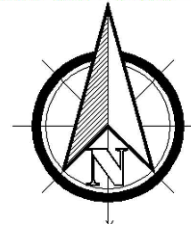


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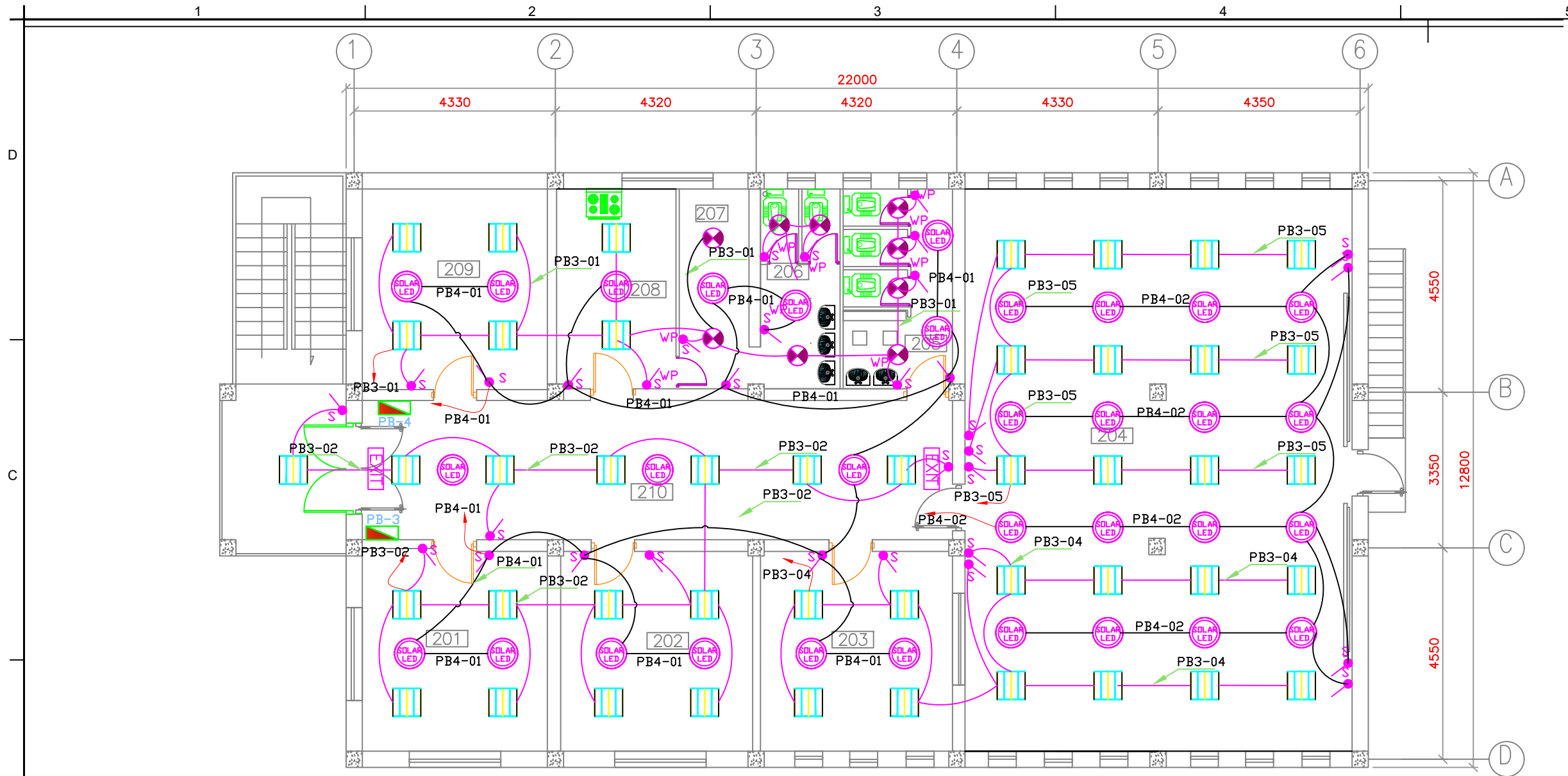
GROUND FLOOR LIGHTING PLAN
SCALE: 1:100

LEGEND:

- 18Watt - LED light Fixture Solar Powered
- EMERGENCY FLUORESCENT LIGHT FIXTURE
- 600mmX600mm LED or FLUORESCENT LIGHT FIXTURE 4-18 WATT LAMPS, 220V, 50HZ
- WEATHER PROOF 600mmX600mm FLUORESCENT LIGHT FIXTURE 4-18 WATT LAMPS, 220V, 50HZ
- WEATHER PROOF 300mmX1200mm FLUORESCENT LIGHT FIXTURE 2-32 WATT T8 LAMPS, 220V, 50HZ
- WEATHER PROOF ABOVE MIRROR FLUORESCENT LIGHT FIXTURE , 220V, 50HZ
- 18Watt - LED light Fixture
- HORN/STROBE COMBO. 60 cd MIN. + 2100mm A.F.F.
- ONE/THREE/FOUR WAY SWITCH, 220V, 10Amp. MOUNTED HEIGHT = 1300mm A.F.F.
- WEATHER PROOF SWITCH, 220V, 10Amp. MOUNTED HEIGHT = 1300mm A.F.F.
- SINGLE - FACE UNIVERSAL MOUNT EXIT LIGHT 152MM RED LETTERS



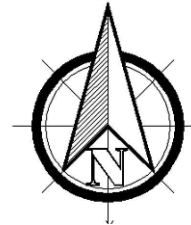
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1 FIRST FLOOR LIGHTING PLAN
E02 SCALE: 1:100

LEGEND:

- 18Watt - LED light Fixture Solar Powered
- 600mmX600mm LED or FLUORESCENT LIGHT FIXTURE 4-18 WATT LAMPS, 220V, 50HZ
- WEATHER PROOF 600mmX600mm FLUORESCENT LIGHT FIXTURE 4-18 WATT LAMPS, 220V, 50HZ
- WEATHER PROOF 300mmX1200mm FLUORESCENT LIGHT FIXTURE 2-32 WATT T8 LAMPS, 220V, 50HZ
- WEATHER PROOF ABOVE MIRROR FLUORESCENT LIGHT FIXTURE , 220V, 50HZ
- 18Watt - LED light Fixture
- HORN/STROBE COMBO. 60 cd MIN. + 2100mm A.F.F.
- ONE/THREE/FOUR WAY SWITCH, 220V, 10Amp. MOUNTED HEIGHT = 1300mm A.F.F.
- WEATHER PROOF SWITCH, 220V, 10Amp. MOUNTED HEIGHT = 1300mm A.F.F.
- SINGLE - FACE UNIVERSAL MOUNT EXIT LIGHT 152MM RED LETTERS

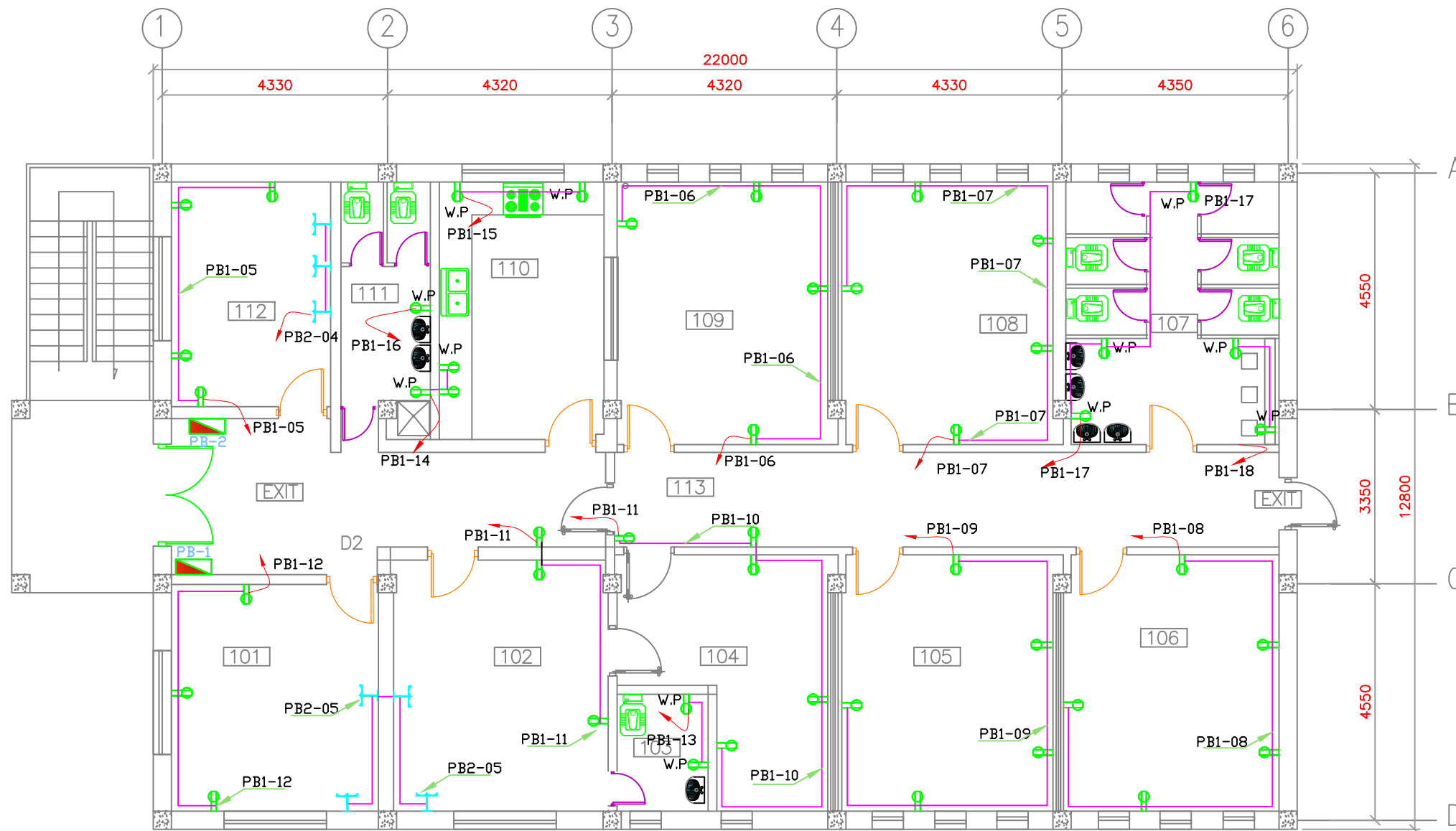


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DESIGNED BY:	DATE:	SUBMITTED BY:
Checked by:	05/28/20	UNDP/LOTA
APPROVED BY:	05/28/20	UNDP/LOTA
Ms. Amara Alawash	05/28/20	UNDP/LOTA
UNDP / LOTFA AFGHANISTAN	UNDP / LOTFA AFGHANISTAN	UNDP / LOTFA AFGHANISTAN
LOTFA PROJECT AFGHANISTAN	LOTFA PROJECT AFGHANISTAN	LOTFA PROJECT AFGHANISTAN
KABUL, AFGHANISTAN	KABUL, AFGHANISTAN	KABUL, AFGHANISTAN
ENGINEERING DIVISION	ENGINEERING DIVISION	ENGINEERING DIVISION
PERS PROJECT	PERS PROJECT	PERS PROJECT

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
GROUND FLOOR LIGHTING PLAN

SHEET NUMBER
E02-20



1
E03

GROUND FLOOR POWER PLAN

SCALE: 1:100

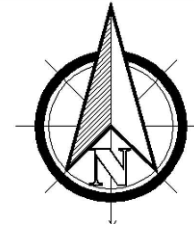
OP-1



DOUBLE CEE 7/7 'SCHUKO' STYLE RECEPTACLE, MOUNT AT 450mm A.F.F.
OR APPROVED EQUAL.



W.P. DOUBLE CEE 7/7 'SCHUKO' STYLE RECEPTACLE, MOUNT AT 120mm or 180mm A.F.F.
OR APPROVED EQUAL.



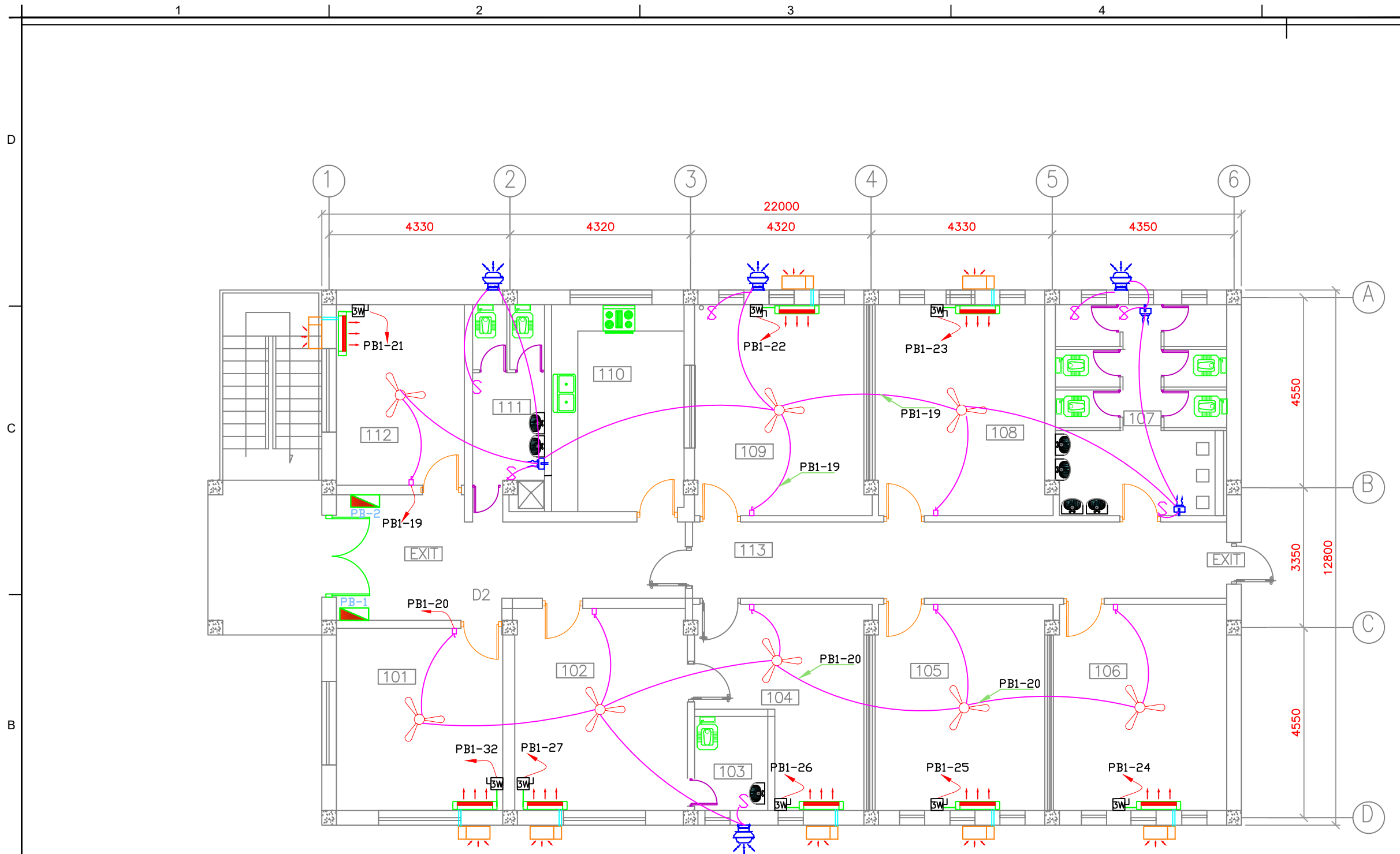
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SCAL
1:100

DESIGNED BY:	DATE:	SUBMITTED BY:
Checked by:	05/28/2020	UNDP/LOTA
APPROVED BY:	UNDP/LOTA	CONTRACT NO.:
Ms. Amara Alawadhi	XX	TO: 01
UNITED NATIONS DEVELOPMENT PROGRAM	LOTFA PROJECT AFGHANISTAN	ENGINEERING DIVISION
LOTFA KABUL MOI		PERS PROJECT

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
GROUND FLOOR LIGHTING PLAN

SHEET
NUMBER
E03-20



LEGEND:

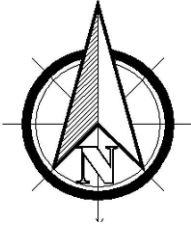


16 A OR 40 A, 2P OR 3P, NON-FUSE DISCONNECT (SAFETY) SWITCH
GEWISS MODELS GW70 431 OR GW70 442, REPECTIVELY, OR APPROVED EQUAL.
IP56- RATED DISCONNED SWITCH.

1
E05

GROUND FLOOR PLAN, AC, & EXHAUST FAN

SCALE: 1:100 OP-1

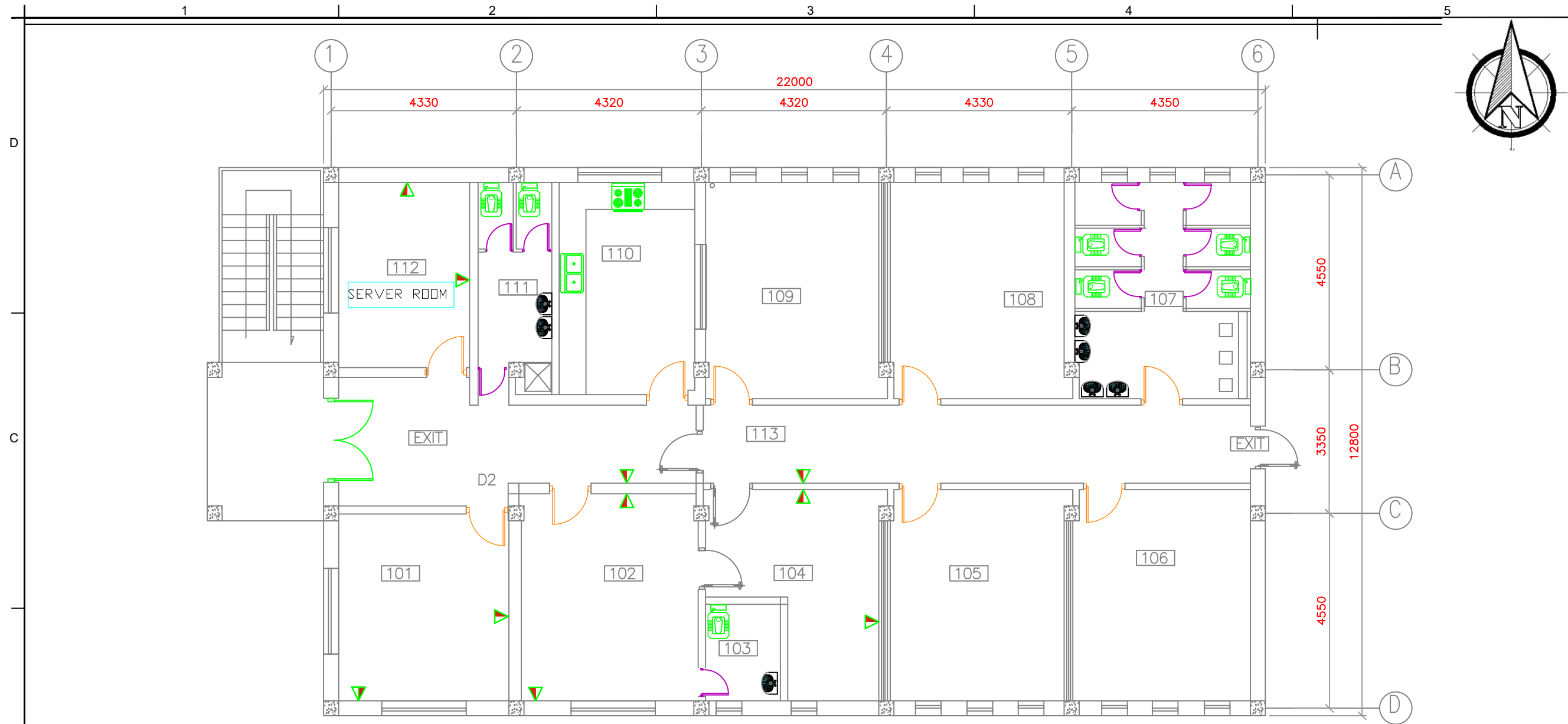


REVISION	05.28.20	XX
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DESCRIPTION		
REV No	3	XX
1:100	4	XX
SCAL		

DESIGNED BY:	DATE:
Checked By:	05/28/20
APPROVED BY:	SUBMITTED BY:
Mr. Ammar Alawadhi	UNDP/LOTA
	CONTRACT NO:
	XX
	T.O. 01
UNITED NATIONS DEVELOPMENT PROGRAM	
LOTFA PROJECT AFGHANISTAN	
UNDP / LOTFA AFGHANISTAN	
KABUL, AFGHANISTAN	
ENGINEERING DIVISION	
PERS PROJECT	

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
GROUND FLOOR LIGHTING PLAN

SHEET
NUMBER
E05-20

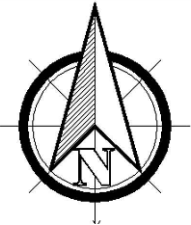
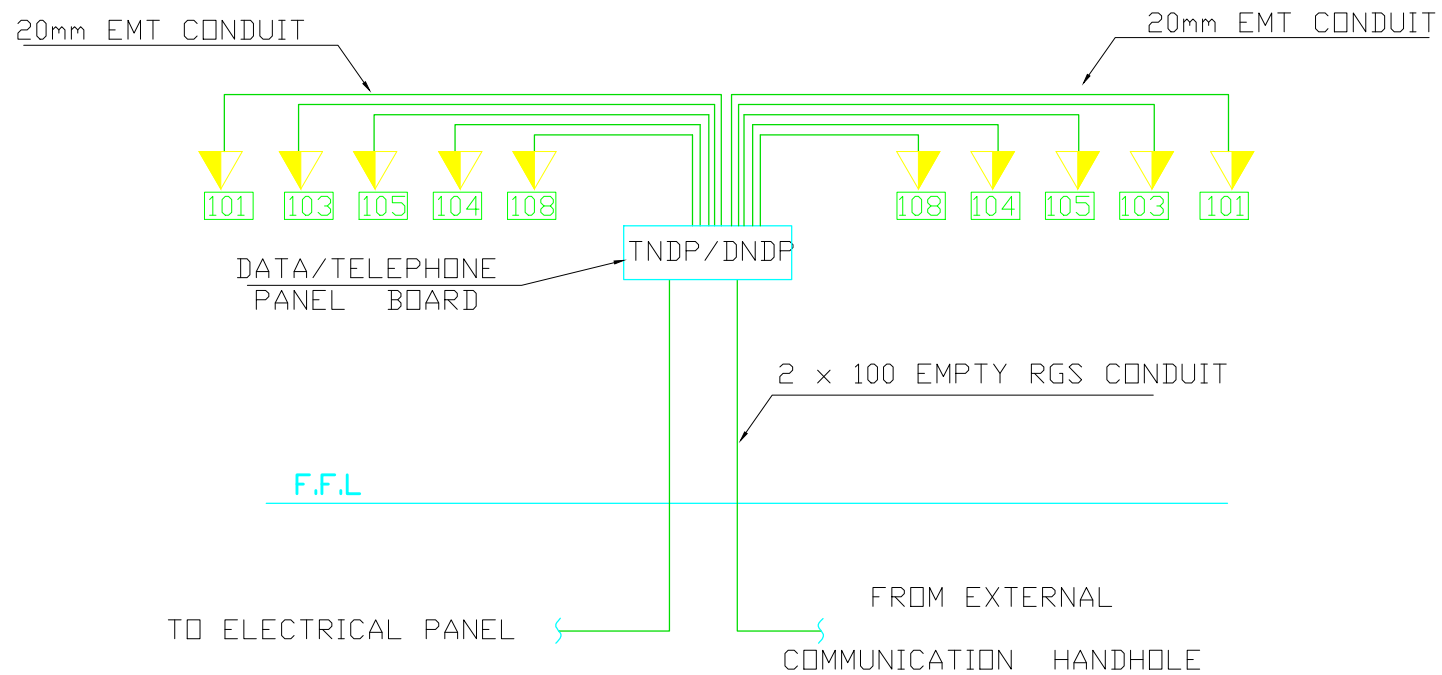


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E09

GROUND FLOOR NETWORKING PLAN

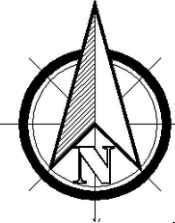
SCALE: 1:100

LEGEND	
	DUPLEX DATA / TELEPHONE OUTLET, RJ 45, MOUNTING HEIGHT = 450mm ABOVE F.F.L
	TELEPHONE NETWORK DISTRIBUTION PANEL/DATA NETWORK DISTRIBUTION PANEL(DNDP & TNDP).



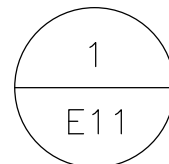
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PANEL BOARD NAME : PB1			MAIN BREAKER : 100A						BUS BAR RATE : 160A						SURFACE MOUNTED NEMA ENCLOS		
BREAKERS TYPES: RCCB & ELCB			220/380 VOLT , 3 PHASE , 5 WIRE , 50HZ						30KA ISC / 0.5 SEC								
WIRE ,CONDUIT DESCRIPTION			PHASE			TRIP & CIRCUIT						PHASE			WIRE ,CONDUITD ESC		
WIRE AND CONDUIT	GND WIRE	DESCRIPTION	A (W)	B (W)	C (W)	AMP	POLE	CKT	CKT	POLE	AMP	A (W)	B (W)	C (W)	DESCRIPTION	GND WIRE	WIRE AND CONDUIT
2(1cX2.5mm ²)Ø20mm	2.5mm ²	LIGHTING	500			20	1	1	2	1	20	500			LIGHTING	2.5mm ²	2(1cX2.5mm ²)Ø20mm
2(1cX2.5mm ²)Ø20mm	2.5mm ²	SMOKE ALARM		150		20	1	3	4	1	20		500		LIGHTING	2.5mm ²	2(1cX2.5mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	RECEPTACLE			720	25	1	5	6	1	25			720	RECEPTACLE	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	RECEPTACLE	900			25	1	7	8	1	25	900			RECEPTACLE	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	RECEPTACLE		900		25	1	9	10	1	25		900		RECEPTACLE	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	RECEPTACLE			900	25	1	11	12	1	25			720	RECEPTACLE	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	WATER HEATER	1400			25	1	13	14	1	25	720			RECEPTACLE	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	RECEPTACLE		900		25	1	15	16	1	25		1500		W. HEATER	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	WATER HEATER			1650	25	1	17	18	1	25			1650	W. HEATER	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	Exhaust Fans and Fans	500			32	1	19	20	1	32	500			Exhaust Fans and Fans	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	AC Split Unit		2000		32	1	21	22	1	32		1500		AC Split Unit	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	AC Split Unit			2000	32	1	23	24	1	32			2000	AC Split Unit	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	AC Split Unit	1500			32	1	25	26	1	32	1500			AC Split Unit	4mm ²	2(1cX4mm ²)Ø20mm
2(1cX4mm ²)Ø20mm	4mm ²	AC Split Unit		2000		32	1	27	28	1	32		-		SPARE	-	-
		SPARE			-	32	1	29	30	1	32			-	SPARE	-	-
		-	-			-		31	32	1	32	1500			AC Split Unit	4mm ²	2(1cX4mm ²)Ø20mm
		SPARE		-		40	3	33	34	1	32		-		SPARE	-	-
		-			-	-		35	36	1	32			-	SPARE	-	-
SUB TOTAL = (w)			4800	5950	5270							5620	4400	5090			
SUB TOTAL = (VA)			6000	7438	6588							7025	5500	6363			
VA			A														
TOTAL PHASE (A) =			13025.0	59.20													
TOTAL PHASE (B) =			12937.5	58.81													
TOTAL PHASE (C) =			12950.0	58.86													
TOTAL CONNECTED LOAD			38912.5	59.19													
DEMAND FACTOR			0.8														
DEMAND LOAD			35021.25														
20% FUTURE			7004.25														
TOTAL LOAD(KVA)			42.03														
TOTAL AMPERE			63.85														



1(4cX35mm²)Cu INSULATED CABLE +1x16mm²
Cu INSULATED GRND CONDUCTOR

1x35mm² BARE COPPER GRND
CONDUCTOR



Panel Schedule Ground Floor

SCALE: 1:100

REVISION	05/28/20	XX
ISSUE SUBMITTAL		XX
FIRST ISSUE		XX
DATE		
DESCRIPTION		
REV No		
SCALE	1:100	

DESIGNED BY:	DATE:	SUBMITTED BY:
Checked by:	05/28/2020	UNDP/LOTA
Eng. Muzin		CONTRACT NO:
APPROVED BY:		XX
Ms. Ambar Alawash		T.O.: 01
UNITED NATIONS DEVELOPMENT PROGRAM		
LOTA PROJECT AFGHANISTAN		
KABUL MOI		
ENGINEERING DIVISION		
PERS PROJECT		

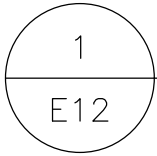
UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
GROUND FLOOR LIGHTING PLAN

SHEET NUMBER
E11-20

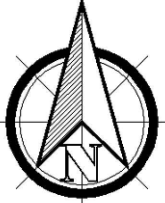
PANEL BOARD NAME : PB2			MAIN BREAKER : 40A									BUS BAR RATE : 100A			SURFACE MOUNTED NEMA ENCLOSURE,		
BREAKERS TYPES: RCCB & ELCB			220/380 VOLT , 3 PHASE , 5 WIRE , 50HZ									30KA ISC / 0.5 SEC					
WIRE ,CONDUIT DESCRIPTION			PHASE			TRIP & CIRCUIT						PHASE			WIRE ,CONDUITD ESCRIPTIO		
WIRE AND CONDUIT	GND WIRE	DESCRIPTION	A (W)	B (W)	C (W)	AMP	POLE	CKT	CKT	POLE	AMP	A (W)	B (W)	C (W)	DESCRIPTION	GND WIRE	WIRE AND CONDUIT
2(1cX2.5mm²)Ø20mm	2.5mm ₂	LIGHTING	200			20	1	1	2	1	20	200			LIGHTING	2.5mm²	2(1cX2.5mm²)Ø20mm
2(1cX2.5mm²)Ø20mm	2.5mm ₂	SMOKE ALARM		100		20	1	3	4	1	20		500		RECEPTACLE	4mm²	2(1cX4mm²)Ø20mm
2(1cX4mm²)Ø20mm	4mm²	RECEPTACLE			400	20	1	5	6	1	20			200	IT EQUIPMENT	4mm²	2(1cX4mm²)Ø20mm
2(1cX4mm²)Ø20mm	4mm²	IT EQUIPMENT	250			20	1	7	8	1	20	250			IT EQUIPMENT	4mm²	2(1cX4mm²)Ø20mm
2(1cX4mm²)Ø20mm	4mm²	IT EQUIPMENT		150		20	1	9	10	1	20		150		IT EQUIPMENT	4mm²	2(1cX4mm²)Ø20mm
2(1cX4mm²)Ø20mm	4mm²	IT EQUIPMENT			150	20	1	11	12	1	20			150	IT EQUIPMENT	4mm²	2(1cX4mm²)Ø20mm
-	-	SPARE	-			25	1	13	14	1	25	-			SPARE	-	-
-	-	SPARE		-		25	1	15	16	1	25		-		SPARE	-	-
-	-	SPARE			-	25	1	17	18	1	25			-	SPARE	-	-
-	-	-	-			-	-	19	20	1	25	-			SPARE	-	-
-	-	SPARE		-		20	3	21	22	1	25		-		SPARE	-	-
-	-	-			-	-	-	23	24	1	25			-	SPARE	-	-
SUB TOTAL = (w)			450	250	550							450	650	350			
SUB TOTAL = (VA)			502	343	688							563	813	438			
TOTAL PHASE (A) =			1125.0	5.11	PB2 1(4cX16mm²)Cu INSULATED CABLE +1x10mm² Cu INSULATED GRND CONDUCTOR 1x35mm² BARE COPPER GRND CONDUCTOR												
TOTAL PHASE (B) =			1125.0	5.11													
TOTAL PHASE (C) =			1125.0	5.11													
TOTAL CONNECTED LOAD			3375.0	5.13													
DEMAND FACTOR			0.8														
DEMAND LOAD			3037.50														
20% FUTURE			607.50														
TOTAL LOAD(KVA)			3.65														
TOTAL AMPERE			5.54														

CONDUCTOR INSULATION SHALL BE COLOR CODED AS BELOW :

CONDUCTOR COLOR CODE	
PHASE	COLOR
A	BROWN
B	BLACK
C	GRAY
NEUTRAL	BLUE
GROUND	GREEN / YELLOW



Panel Schedule Ground Floor Solar
SCALE: 1:100



REVISION	05/28/20	XX
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FIRST ISSUE		XX
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DATE		
DESCRIPTION		
SCAL	1:100	

DESIGNED BY:	Mr. Zia 2020	SUBMITTED BY:	Mr. Zia 2020
CHECKED BY:	Mr. Zia 2020	UNPROLOTA	CONTRACT NO:
APPROVED BY:	Mr. Zia 2020	XX	TO: 01
UNITED NATIONS DEVELOPMENT PROGRAM		ENGINEERING DIVISION	
LOTFA PROJECT AFGHANISTAN		PERS PROJECT	
KABUL, AFGHANISTAN		BUILDING 02 - PHQ	
GROUND FLOOR LIGHTING PLAN			

SHEET NUMBER	E12-20
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PANEL BOARD NAME : MPB BREAKERS TYPES: ELCB																		MAIN BREAKER : 250A 220/380 VOLT , 3 PHASE , 5 WIRE , 50HZ						BUS BAR RATE :400A 36KA ISC / 0.5 SEC						WALL MOUNTED NEMA ENCLOSURE, T					
WIRE ,CONDUIT DESCRIPTION			PHASE			TRIP & CIRCUIT						PHASE			WIRE ,CONDUITD ESCRI																				
WIRE AND CONDUIT	GND WIRE	BUILDING	A (KVA)	B (KVA)	C (KVA)	AMP	POLE	CKT	CKT	POLE	AMP	A (KVA)	B (KVA)	C (KVA)	BUILDING	GND WIRE	WIRE AND CONDUIT																		
1(4cX35mm²)Ø1x50mm	1x10m m²	GROUND FLOOR	13.00			125	3	1	2	3	50	1.25			GROUND FLOOR	1x10mm²	1(4cX16mm²)Ø1x50mm																		
				13.00									1.25																						
					13.00									1.25																					
1(4cX35mm²)Ø1x50mm	1X10 mm²	FIRST FLOOR	14.00			125	3	3	4	3	63	4.40			FIRST FLOOR	1x10mm²	1(4cX16mm²)Ø1x50mm																		
				14.00									4.40																						
					14.00									4.40																					
1(4cX35mm²)Ø1x50mm	1X10 mm²	SECOND FLOOR	13.00			63	3	5	6	3	63	-			SPARE	1x10mm²	1(4cX35mm²)Ø1x50mm																		
				13.00									-																						
					13.00									-																					
1(4cX35mm²)Ø1x50mm	1X10 mm²	SPARE	-			63	3	7	8	3	63	-			SAPRE	1x10mm²	1(4cX35mm²)Ø1x50mm																		
				-									-																						
					-									-																					
SUB TOTAL = (KVA)			40.00	40.00	40.00							5.65	5.65	5.65																					
TOTAL PHASE (A) =			45.7	198.48	MPB 1(4cX150mm²)Cu INSULATED CABLE +1x35mm² Cu INSULATED GRND CONDUCTOR 1x35mm² BARE COPPER GRND, CONDUCTOR																														
TOTAL PHASE (B) =			45.7	198.48																															
TOTAL PHASE (C) =			45.7	198.48																															
TOTAL CONNECTED LOAD			137.0	197.68																															
DEMAND FACTOR			0.9																																
DIVERSITY FACTOR			1.3																																
DEMAND LOAD			94.8																																
20% FUTURE			19.0																																
TOTAL LOAD(KVA)			113.77																																
TOTAL AMPERE			164.41																																



REVISION	05/28/20	XX
ISSUE SUBMITAL		XX
FIRST ISSUE		XX
REV No		APPROVED
DATE		
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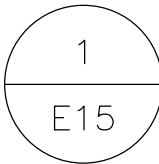
DESIGNED BY:	Mr. Zia 2020	SUBMITTED BY:	Mr. Zia 2020
CHECKED BY:	Mr. Zia 2020	UNPROLOTA	CONTRACT NO:
APPROVED BY:	Mr. Zia 2020	XX	TO: 01
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN			
ENGINEERING DIVISION PERS PROJECT			

UNDP / LOTFA AFGHANISTAN	KABUL, AFGHANISTAN	BUILDING 02 - PHQ
GROUND FLOOR LIGHTING PLAN		

SHEET NUMBER
E15-20

CONDUCTOR INSULATION SHALL BE COLOR CODED AS BELOW :

CONDUCTOR COLOR CODE	
PHASE	COLOR
A	BROWN
B	BLACK
C	GRAY
NEUTRAL	BLUE
GROUND	GREEN / YELLOW



MPB Panel Schedule Ground Floor

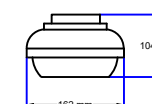
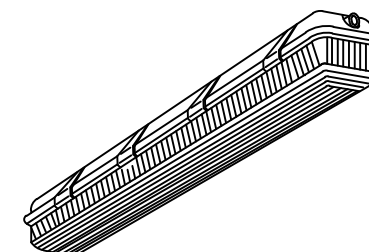
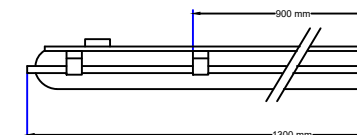
SCALE: 1:100

 1x5WATT

NOTE: NOT USED IN THIS BUILDING

 1x5WATT

④ TYPE M6
WEATERPROOF FLUORASCENT LIGHTING FIXTURE



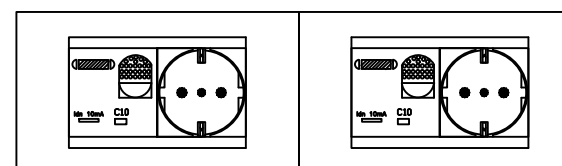
2x36WATT

M6

4x18
WATT

 4x18
WATT
M2

NOTE: NOT USED IN THIS BUILDING



 GFC

A diagram of a two-story building. The building has a rectangular frame. On each floor, there are two identical windows. Each window is represented by a rectangle with a smaller rectangle inside it, and a series of small triangles below the inner rectangle, suggesting a curtain or a specific window style. The windows are labeled 'Fxy-z'.



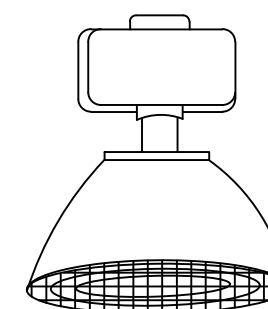
A diagram of a double-headed arrow symbol. It consists of a horizontal rectangle with a vertical line in the center. At each end of the horizontal rectangle, there is a semi-circle pointing outwards. Inside each semi-circle, there are two small black dots, one on each side of the central vertical line.



1
E18

⑫ TYPE M3
HIGH CEILING LIGHTING FIXTURE

NOTE: NOT USED IN THIS BUILDING



 ^A 1x165 WATT

 **B** 1x250 WATT

[illegible]

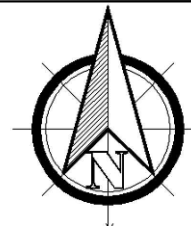
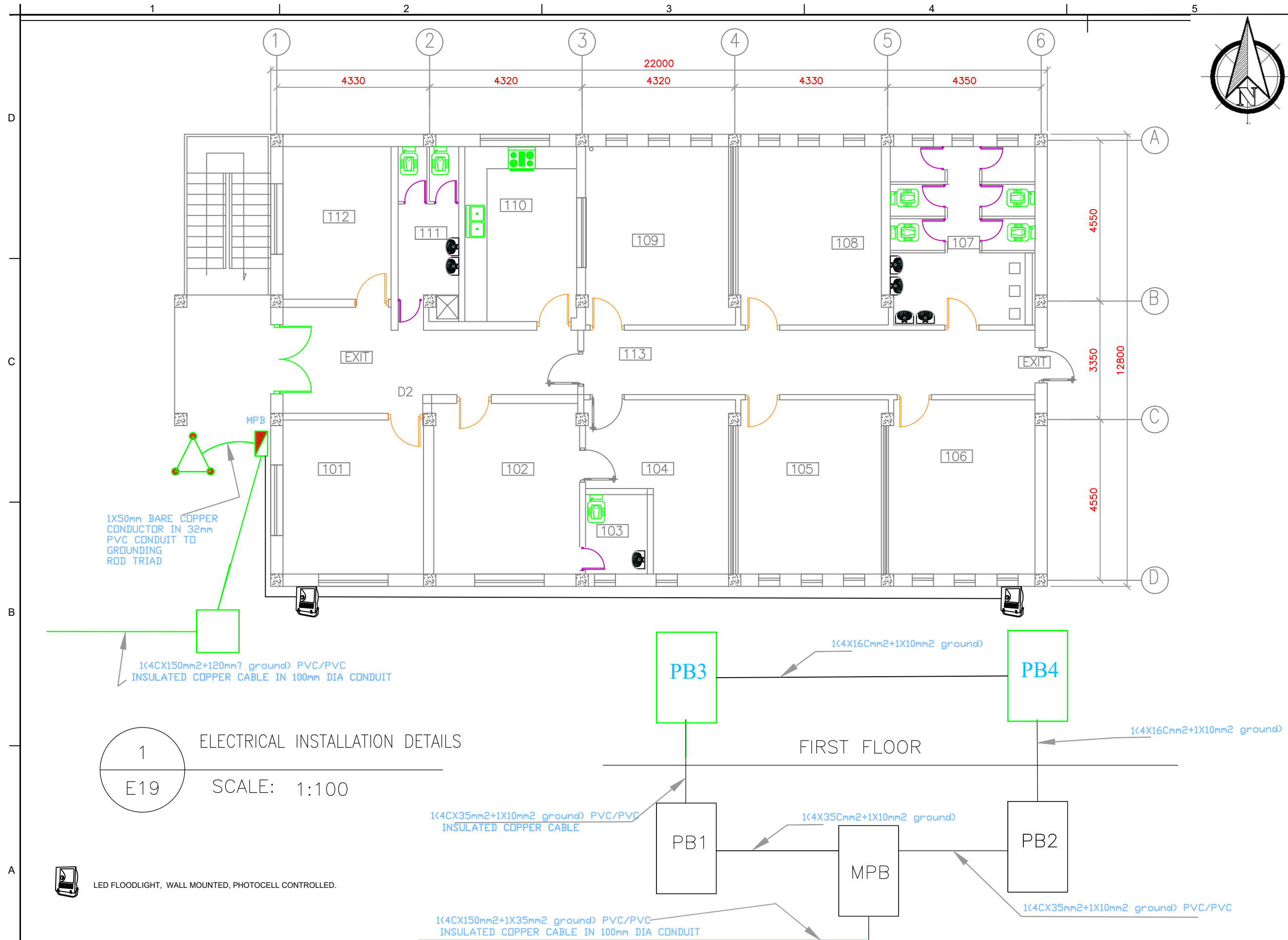
 UNITED NATIONS DEVELOPMENT PROGRAM LOIPA PROJECT AFGHANISTAN KABUL (WO)	DESIGNED BY:	DATE:
	Waheedul Azmy Checked By: Eng. Waahid Approved By:	May 28, 2020 SUBMITTED BY : UNSP/LOIPA CONTRACT NO:
ENGINEERING DIVISION		

UNDP / LOTFA AFGHANISTAN

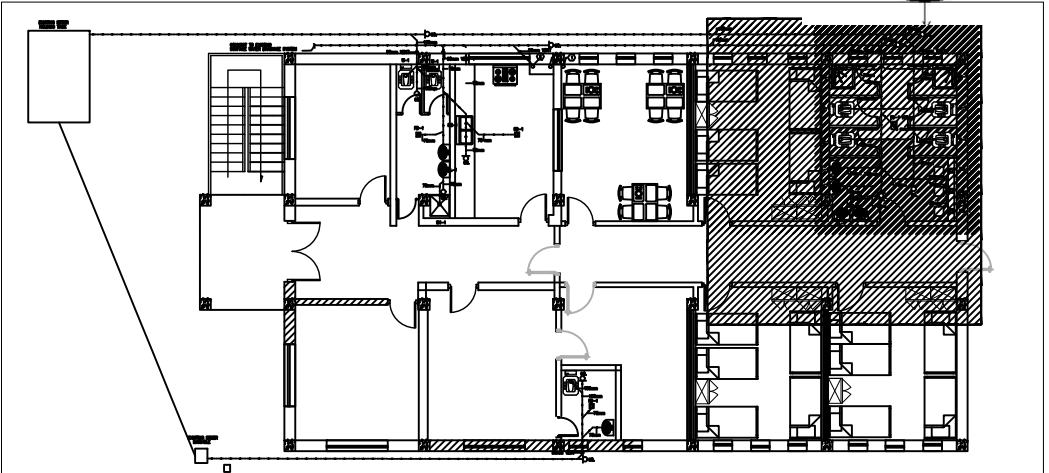
KABUL, AFGHANISTAN

BUILDING 02 - PHQ

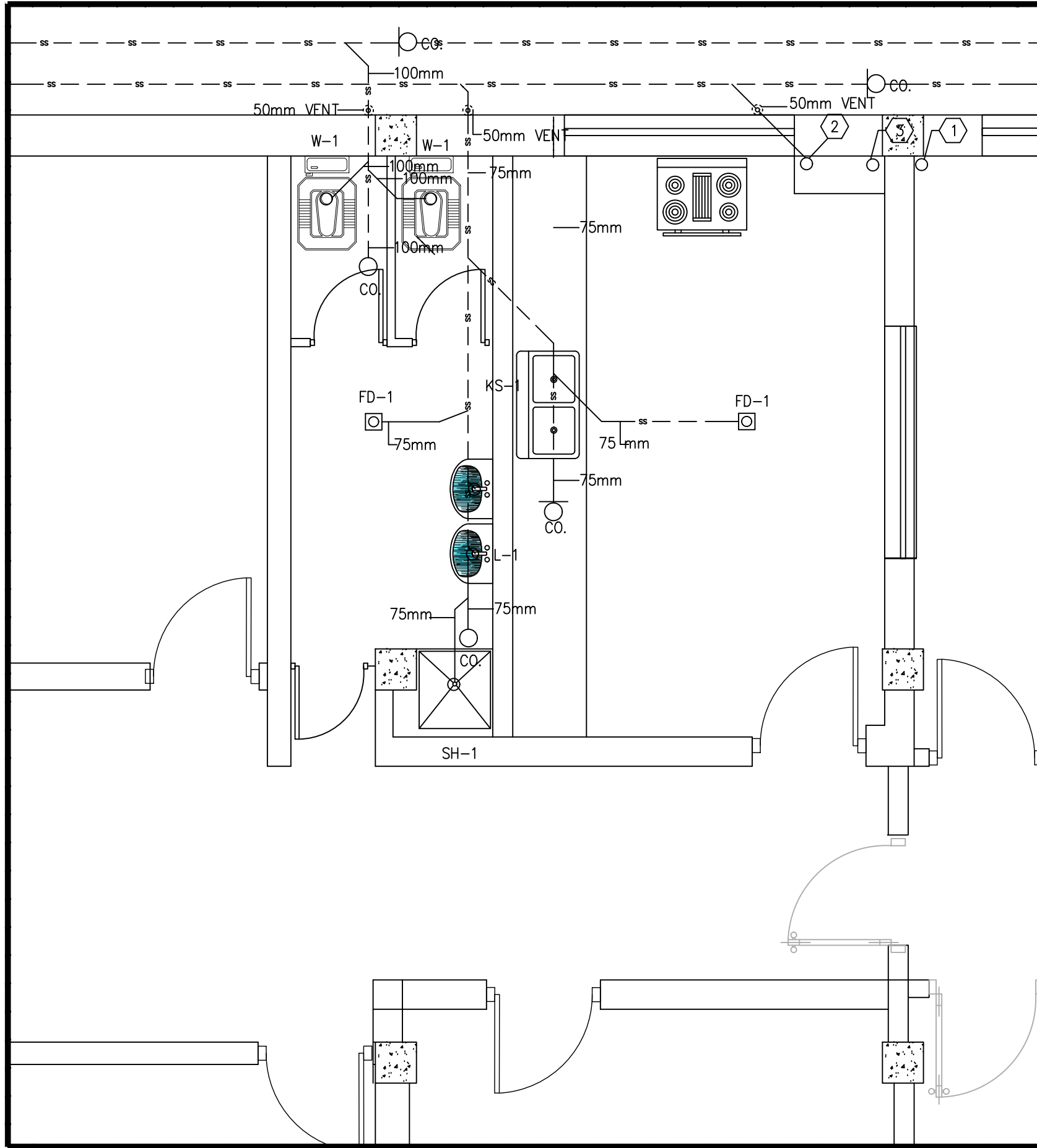
SHEET
NUMBER
E18-2



REVISION	05.28.20	XX
100% SUBMITTAL		XX
FIRST ISSUE		XX
REV No	Date	APPROVED
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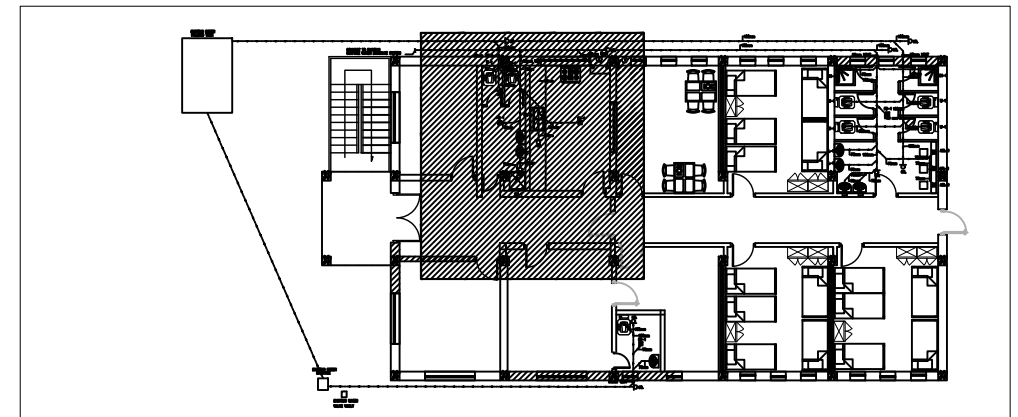


SHEET
NUMBER
P-101



PROPOSED TOILET AND KITCHEN
GROUND FLOOR PLAN - PLUMBING (SANITARY)

1
P-102 SCALE: 1:20



FLOOR PLAN NOTES:

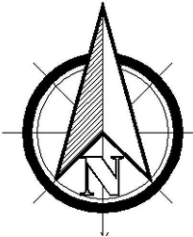
- ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A 25mm (1 INCH) COLD WATER LINE EXTENDED TO IT AND THEN BE REDUCED TO 13mm (1/2 INCH) FOR A FINAL CONNECTION TO THE FLUSH TANK AND A 102mm (4 INCH) SANITARY CONNECTION.
- ALL LAV FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
- ALL ABLUTION FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF ABL-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION.
- ALL SHOWERS FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF SH-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION.
- REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
- ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

GROUND FLOOR SANITARY KEY NOTES:

- 100mm EXISTING SANITARY SOIL LINE DOWN FROM 1ST FLOOR EXTEND LINE UNDER GROUND AND CONNECT TO 100mm SANITARY LINE.
- 100mm SANITARY WASTE LINE DOWN ON 1ST FLOOR TO GROUND FLOOR/UNDER GROUND AND CONNECT TO 100 MM SANITARY LINE
- 100mm PROPOSED SANITARY SOIL LINE DOWN FROM 1ST FLOOR - EXTEND LINE UNDER GROUND AND CONNECT TO 100mm SANITARY LINE.

PLUMBING SYMBOLS

- ss SANITARY SEWER PIPING (BELOW GROUND)
- ss SANITARY SEWER PIPING (ABOVE GROUND)
- VENT PIPING (V)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- P PROPANE LINE
- P TWO STAGE PRESSURE GAUGE
- BALL VALVE
- BACKFLOW PREVENTER
- OR CLEANOUT (CO.)
- ROOF PENETRATION

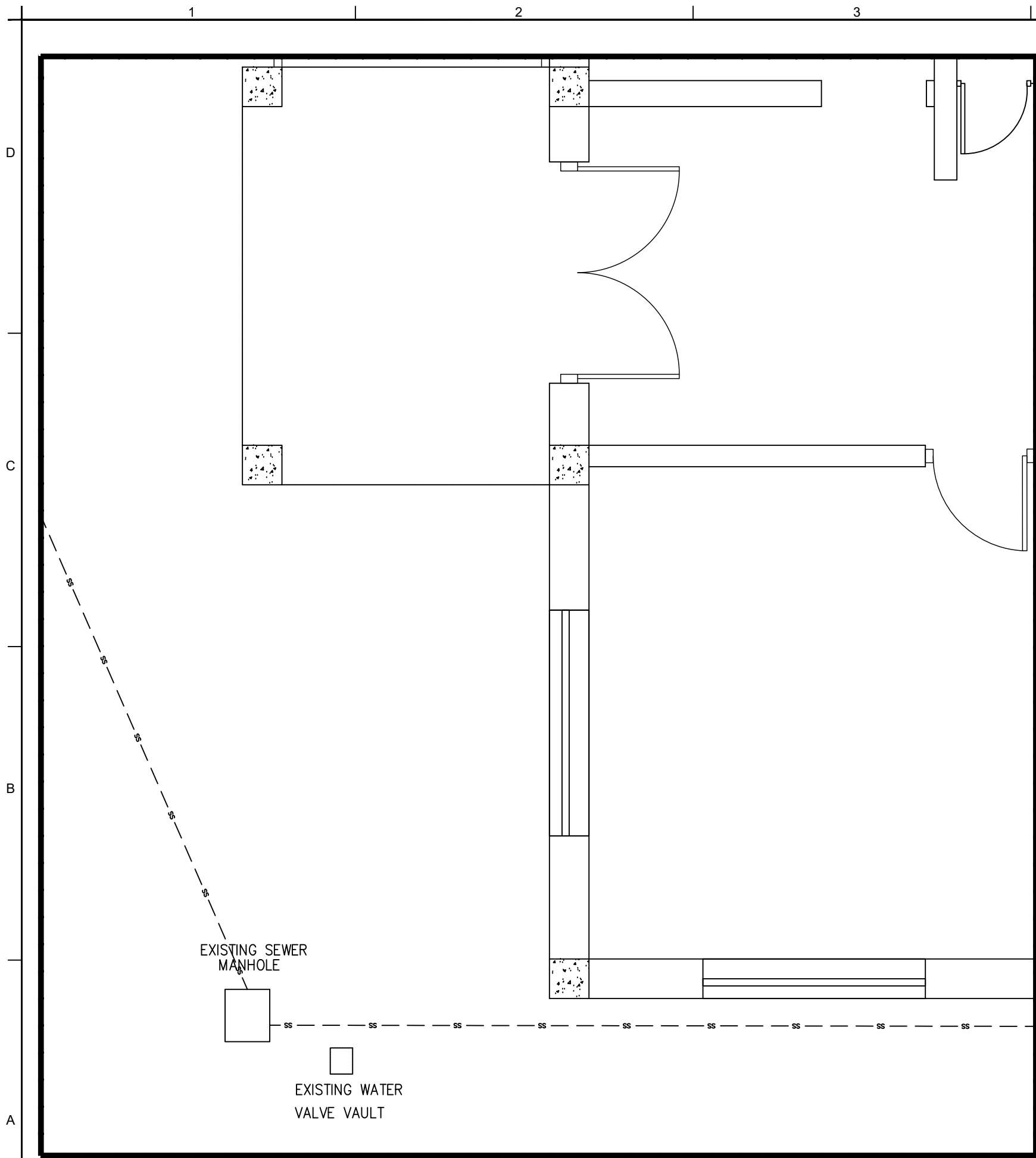


DATE	05/20/20	REVISION	100% SUBMITTAL	APPROVED
DESIGNED BY: MOHAMMAD SHAHADI	CHECKED BY: MUSLIM RUHAN	UNPL/OTA	CONTRACT NO. XX	REV No
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABIL MOI	ENGINEERING DIVISION	PERS PROJECT	1:20	SCAL

DATE	05/20/20	REVISION	100% SUBMITTAL	APPROVED
DESIGNED BY: MOHAMMAD SHAHADI	CHECKED BY: MUSLIM RUHAN	UNPL/OTA	CONTRACT NO. XX	REV No
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABIL MOI	ENGINEERING DIVISION	PERS PROJECT	1:20	SCAL

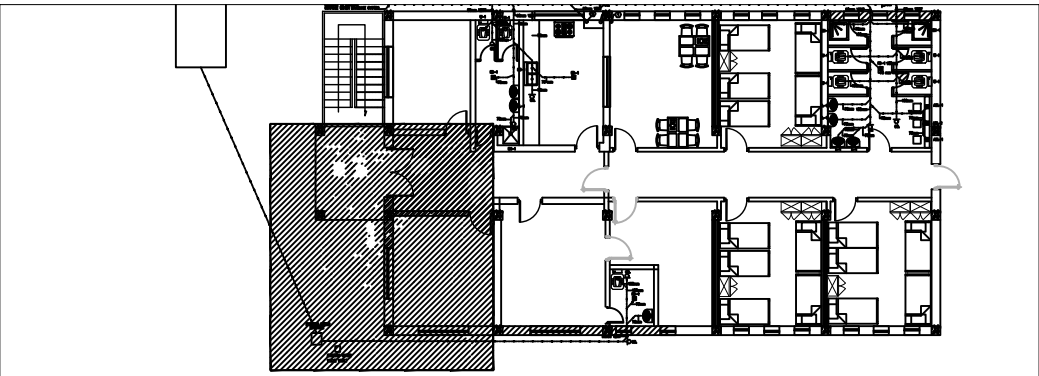
UNDP / LOTFA AFGHANISTAN	KABIL, AFGHANISTAN	BUILDING 02 - GROUND FLOOR ENLARGED SEWER PLAN
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SHEET NUMBER	P-102
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1
P-104

PROPOSED
GROUND FLOOR PLAN - PLUMBING (SANITARY)
SCALE: 1:20



FLOOR PLAN NOTES:

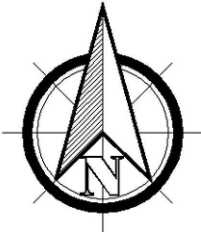
1. ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A 25mm (1 INCH) COLD WATER LINE EXTENDED TO IT AND THEN BE REDUCED TO 13mm (1/2 INCH) FOR A FINAL CONNECTION TO THE FLUSH TANK AND A 102mm (4) INCH SANITARY CONNECTION.
2. ALL LAV FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
3. ALL ABLUTION FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF ABL-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION.
4. ALL SHOWERS FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF SH-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION.
5. REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
6. ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

GROUND FLOOR SANITARY
KEY NOTES:

- 1 100mm EXISTING SANITARY SOIL LINE DOWN FROM 1ST FLOOR EXTEND LINE UNDER GROUND AND CONNECT TO 100mm SANITARY LINE.
- 2 100mm SANITARY WASTE LINE DOWN ON 1ST FLOOR TO GROUND FLOOR/UNDER GROUND AND CONNECT TO 100 MM SANITARY LINE
- 3 100mm PROPOSED SANITARY SOIL LINE DOWN FROM 1ST FLOOR - EXTEND LINE UNDER GROUND AND CONNECT TO 100mm SANITARY LINE.

PLUMBING SYMBOLS

- SS SANITARY SEWER PIPING (BELOW GROUND)
- SS SANITARY SEWER PIPING (ABOVE GROUND)
- V VENT PIPING (V)
- CW COLD WATER PIPING (CW)
- HW HOT WATER PIPING (HW)
- P PROPANE LINE
- P TWO STAGE PRESSURE GAUGE
- BV BALL VALVE
- BP BACKFLOW PREVENTER
- CO OR C CLEANOUT (CO.)
- RP ROOF PENETRATION

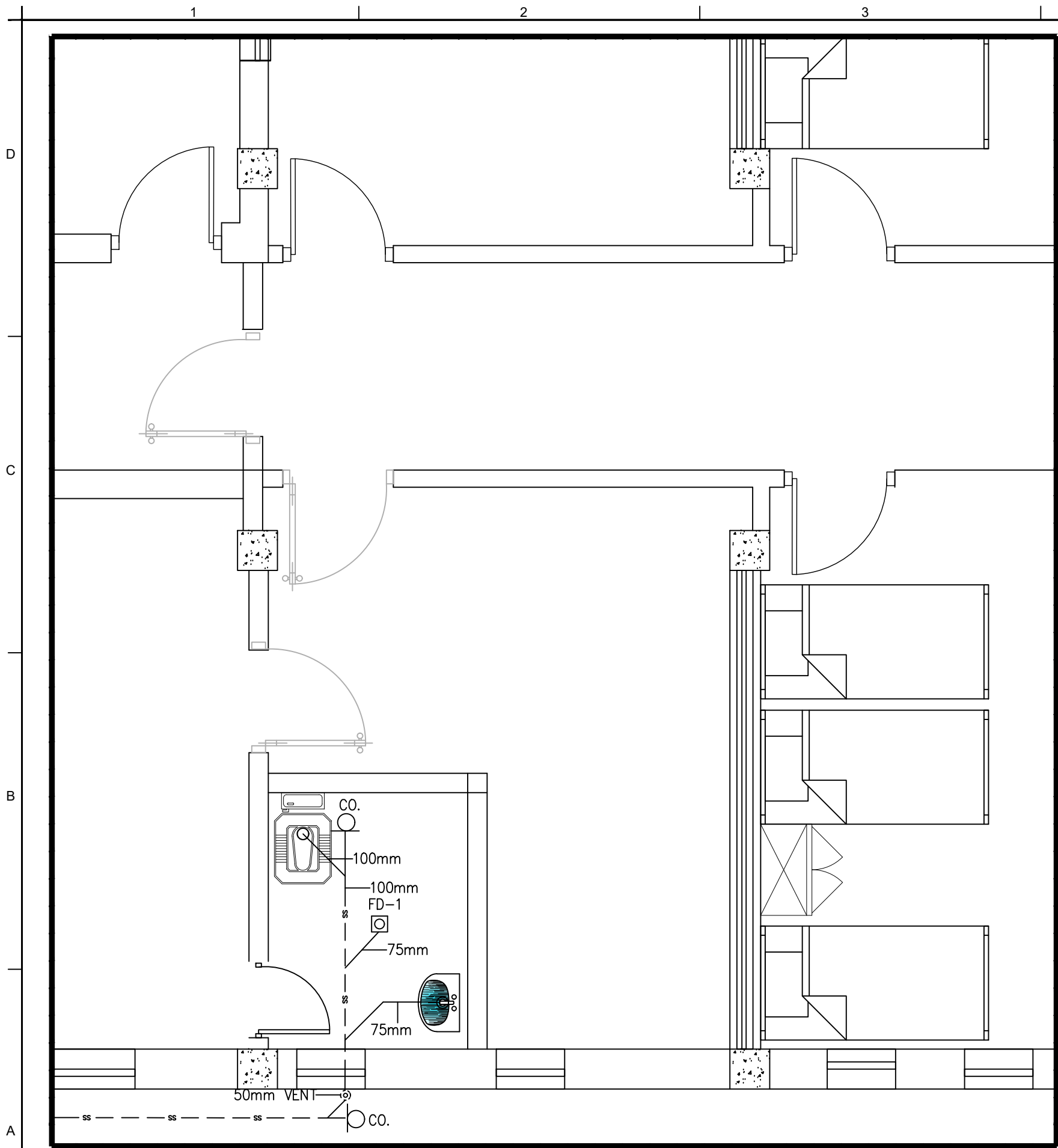


REVISION	DATE	APPROVED
100% SUBMITTAL	05/20/20	XX
FIRST ISSUE		XX
REV No	Date	APPROVED
1		XX
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3		XX
SCAL	1:20	

DESIGNED BY: MOHAMMAD SHAWADI	DATE: 02/20/2020	SUBMITTED BY: UNPLOTA	CONTRACT NO: XX
CHECKED BY: MUSLIM RULHAN	APPROVED BY: ASMAHAN ALAWABSHIEH	ENGINEERING DIVISION	PERS PROJECT
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - GROUND FLOOR ENLARGED SEWER PLAN		

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - GROUND FLOOR ENLARGED SEWER PLAN
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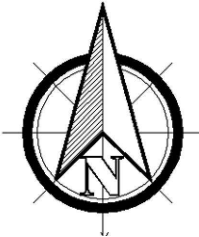
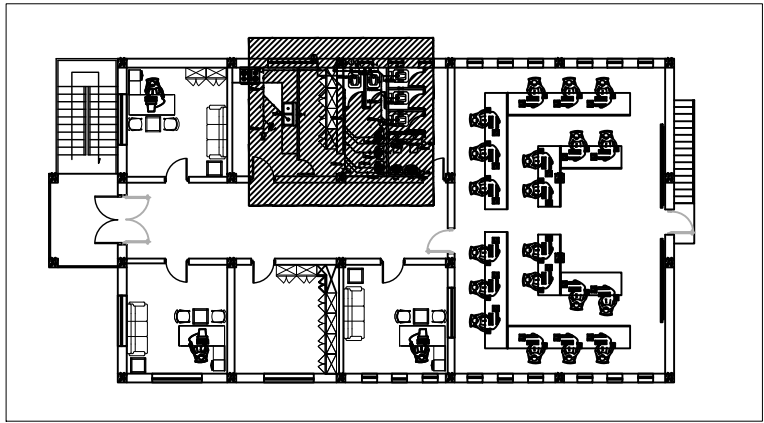
SHEET NUMBER
P-104



1
P-105

PROPOSED TOILET
GROUND FLOOR PLAN - PLUMBING (SANITARY)

SCALE: 1:20



FLOOR PLAN NOTES:

- ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A 25mm (1 INCH) COLD WATER LINE EXTENDED TO IT AND THEN BE REDUCED TO 13mm (1/2 INCH) FOR A FINAL CONNECTION TO THE FLUSH TANK AND A 102mm (4) INCH SANITARY CONNECTION.
- ALL LAV FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
- ALL ABLUTION FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF ABL-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION.
- ALL SHOWERS FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF SH-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION.
- REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
- ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

GROUND FLOOR SANITARY
KEY NOTES:

- 100mm EXISTING SANITARY SOIL LINE DOWN FROM 1ST FLOOR EXTEND LINE UNDER GROUND AND CONNECT TO 100mm SANITARY LINE.
- 100mm SANITARY WASTE LINE DOWN ON 1ST FLOOR TO GROUND FLOOR/UNDER GROUND AND CONNECT TO 100 MM SANITARY LINE
- 100mm PROPOSED SANITARY SOIL LINE DOWN FROM 1ST FLOOR - EXTEND LINE UNDER GROUND AND CONNECT TO 100mm SANITARY LINE.

PLUMBING SYMBOLS

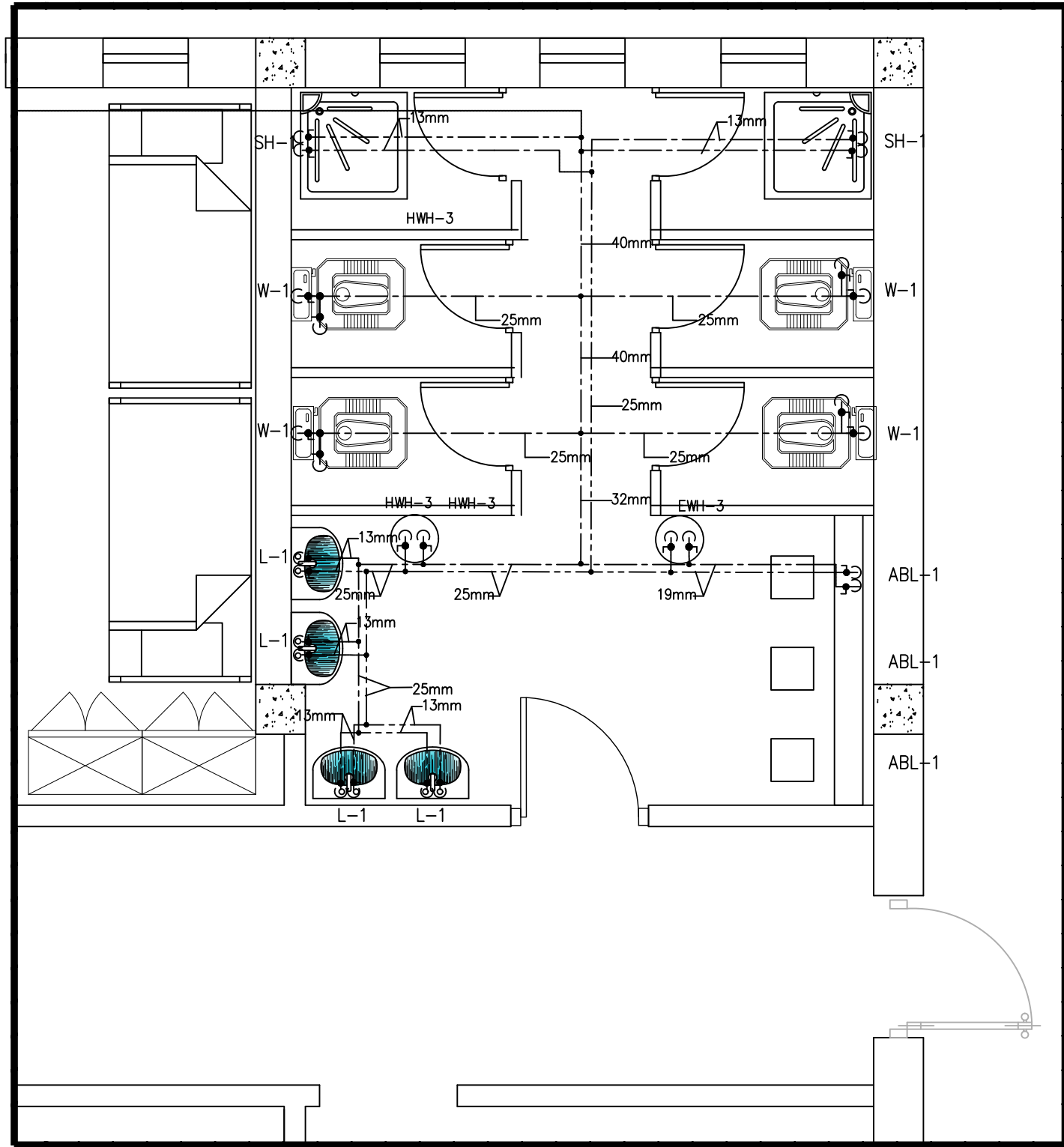
- SS SANITARY SEWER PIPING (BELOW GROUND)
- SS SANITARY SEWER PIPING (ABOVE GROUND)
- V VENT PIPING (V)
- CW COLD WATER PIPING (CW)
- HW HOT WATER PIPING (HW)
- P PROPANE LINE
- P TWO STAGE PRESSURE GAUGE
- BV BALL VALVE
- BP BACKFLOW PREVENTER
- CO OR CLEANOUT (CO.)
- RP ROOF PENETRATION

REVISION	DATE	APPROVED
100% SUBMITTAL	05/29/20	XX
FIRST ISSUE		XX
REV No		
1		
2		
3		
SCAL	1:20	

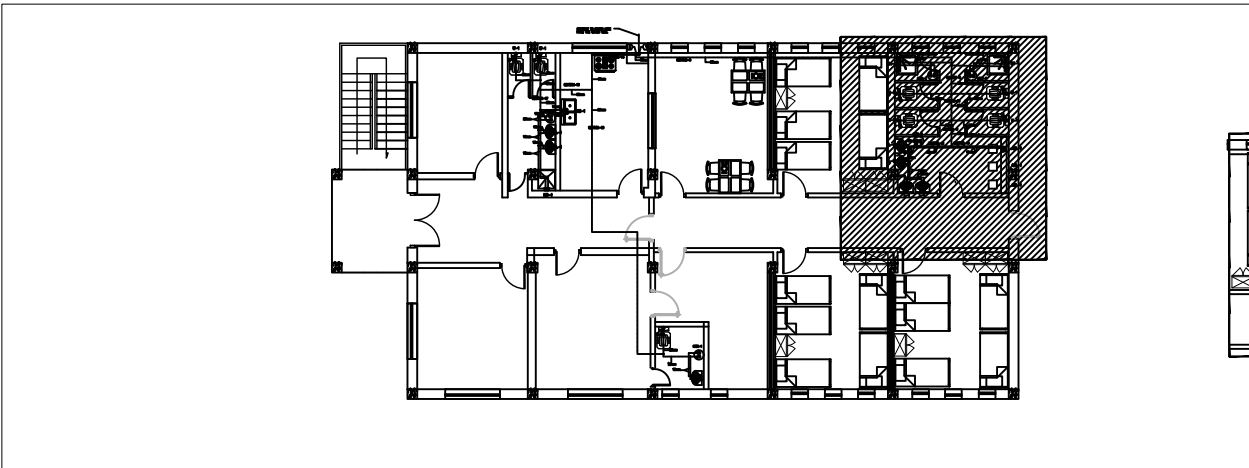
DESIGNED BY: MOHAMMAD SHAHADI	CHECKED BY: MUSLIM RUHAN	DATE: 02/23/2020
APPROVED BY: ASMAHAN ALWABSHIEH	UNPL/LOTA	SUBMITTED BY: UNPL/LOTA
CONTRACT NO: XX	TO: 01	
UNITED NATIONS DEVELOPMENT PROGRAM LOTA PROJECT AFGHANISTAN KABUL MOI	ENGINEERING DIVISION	PERS PROJECT

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - GROUND FLOOR ENLARGED SEWER PLAN
--

SHEET NUMBER
P-105



1
P-107
SCALE: 1:20
PROPOSED TOILET-SHOWER
GROUND FLOOR PLAN - PLUMBING (HOT & COLD WATER)



FLOOR PLAN NOTES:

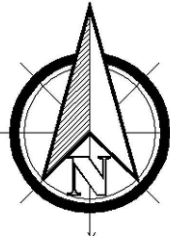
1. ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A 25mm (1 INCH) COLD WATER LINE EXTENDED TO IT AND THEN BE REDUCED TO 13mm (1/2 INCH) FOR A FINAL CONNECTION TO THE FLUSH TANK AND A 102mm (4) INCH SANITARY CONNECTION.
2. ALL LAV FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
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5. REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
6. ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

GROUND FLOOR WATER KEY
NOTES:

- 1 50mm WATER LINE DOWN EXTENDED FROM ROOF WATER TANK TO GROUND FLOOR FIXTURES
- 2 50 mm WATER LINE EXTENDED FORM WATER WELL TO ROOF WATER TANK

PLUMBING SYMBOLS

- SS SANITARY SEWER PIPING (BELOW GROUND)
- SS SANITARY SEWER PIPING (ABOVE GROUND)
- VENT PIPING (V)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- P PROPANE LINE
- P TWO STAGE PRESSURE GAUGE
- BALL VALVE
- BACKFLOW PREVENTER
- CLEANOUT (CO.)
- ROOF PENETRATION

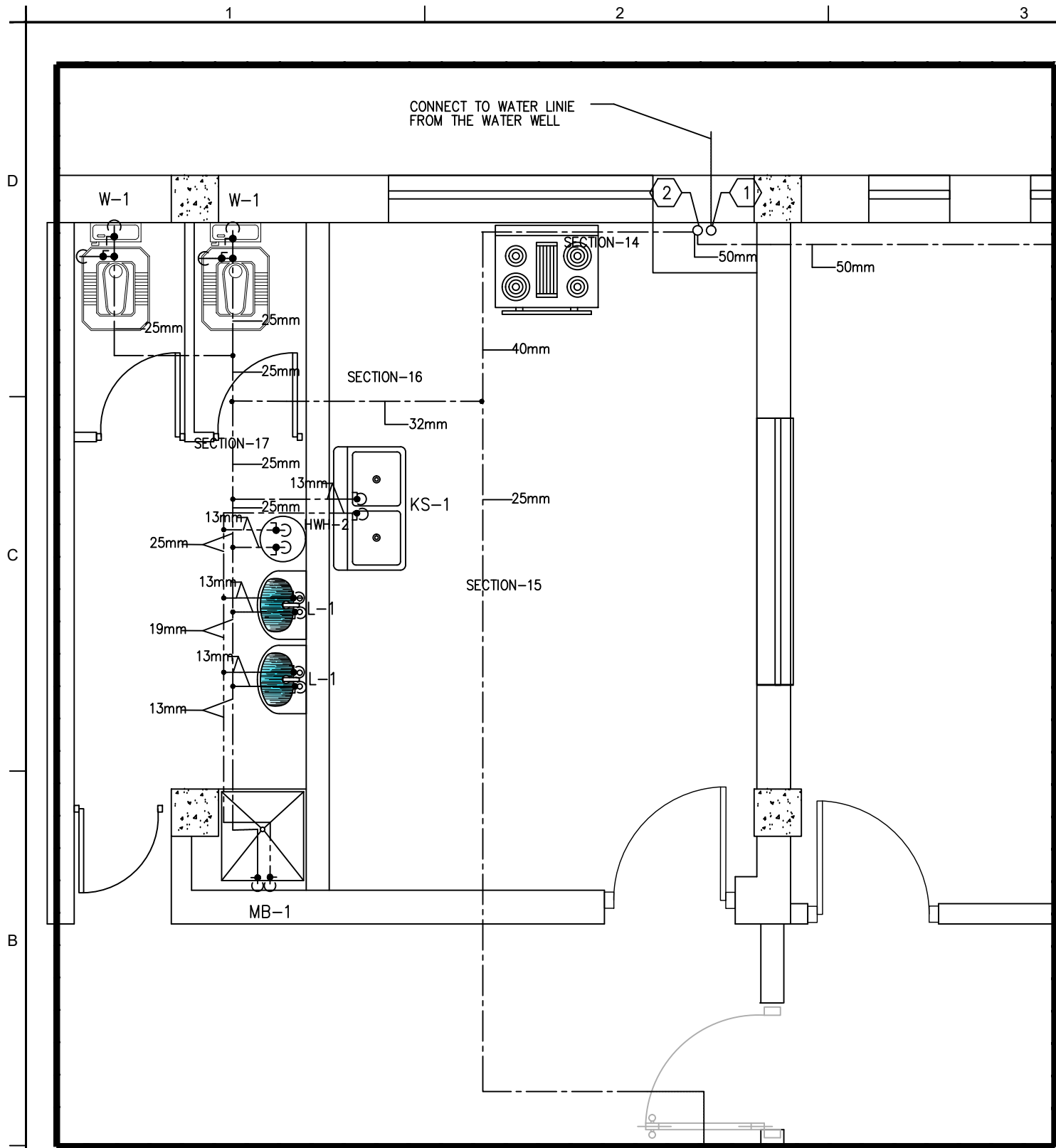


REVISION	DATE	APPROVED
100% SUBMITTAL	05/20/20	XX
FIRST ISSUE		XX
REV No		
1		
2		
3		
SCAL	1:20	

DESIGNED BY: MOHAMMAD SHAHADI	DATE: 02/23/2020	SUBMITTED BY: UNPL/LOTA	CONTRACT NO: XX
CHECKED BY: MUSLIM RULHAN		APPROVED BY: ASMAHAN ALWABSHAH	T.O. 01
UNITED NATIONS DEVELOPMENT PROGRAM LOTA PROJECT AFGHANISTAN KABUL MOI		ENGINEERING DIVISION PERS PROJECT	

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - GROUND FLOOR HOT AND COLD WATER PLAN
--

SHEET NUMBER P-107



PROPOSED TOILET AND KITCHEN
GROUND FLOOR PLAN - PLUMBING (HOT & COLD WATER)

1
P-108 SCALE: 1:20

FLOOR PLAN NOTES:

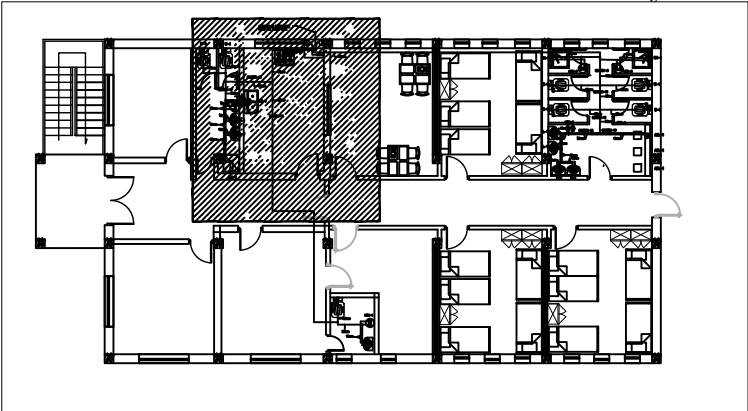
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5. REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
6. ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

GROUND FLOOR WATER KEY
NOTES:

- ① 50mm WATER LINE DOWN EXTENDED FROM ROOF WATER TANK TO GROUND FLOOR FIXTURES
- ② 50 mm WATER LINE EXTENDED FORM WATER WELL TO ROOF WATER TANK

PLUMBING SYMBOLS

- ss — SANITARY SEWER PIPING (BELOW GROUND)
- ss — SANITARY SEWER PIPING (ABOVE GROUND)
- V — VENT PIPING (V)
- CW — COLD WATER PIPING (CW)
- HW — HOT WATER PIPING (HW)
- P — PROPANE LINE
- P — TWO STAGE PRESSURE GAUGE
- BV — BALL VALVE
- BP — BACKFLOW PREVENTER
- CO. — CLEANOUT (CO.)
- RP — ROOF PENETRATION

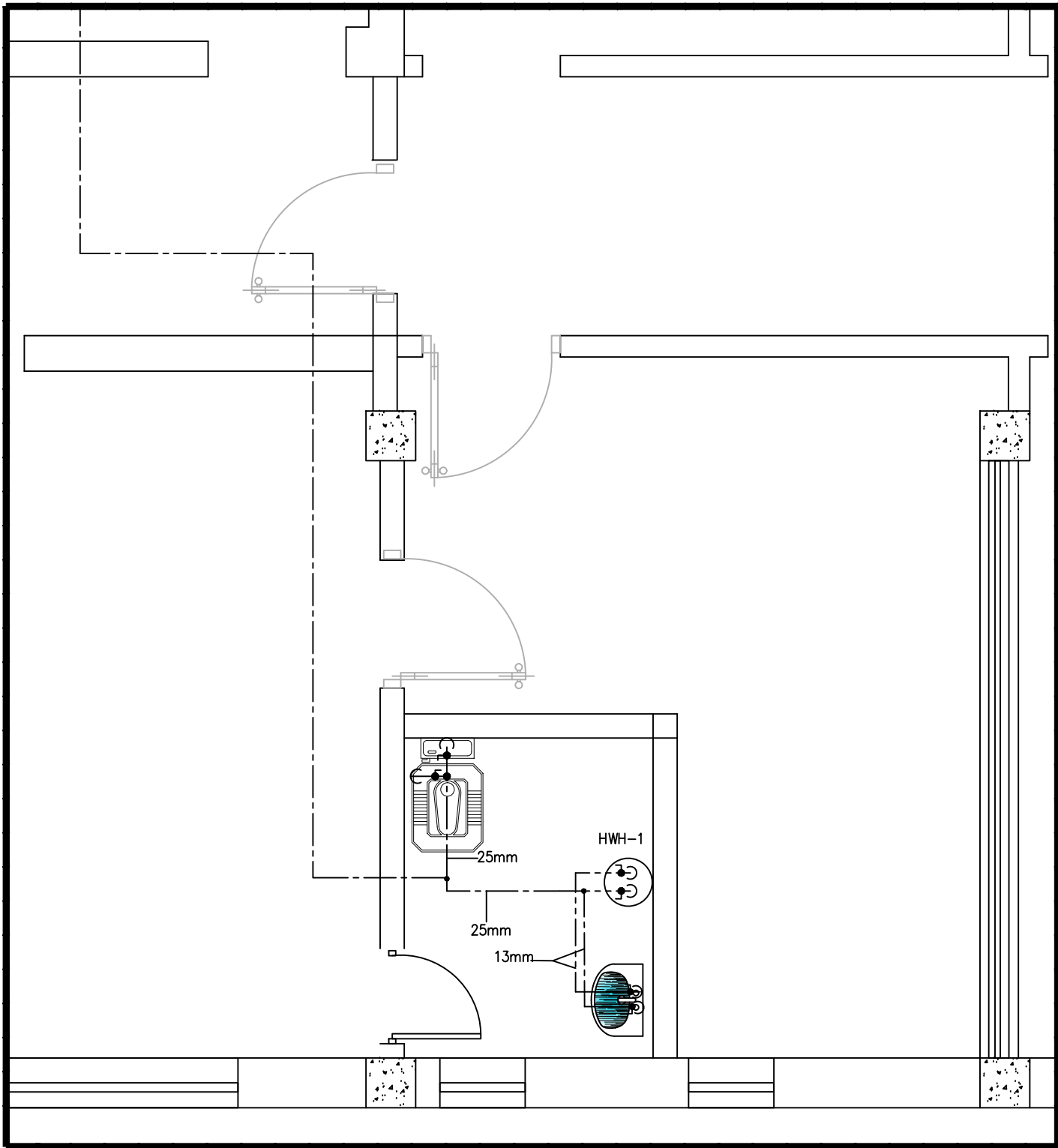


DATE	05/20/20	REVISION	100% SUBMITTAL	APPROVED
DESIGNED BY: MOHAMMAD SHAHADI	CHECKED BY: MUSLIM RULHAN	UNPL/OTA	CONTRACT NO: XX	REV No
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABIL MOI	ENGINEERING DIVISION	PERS PROJECT	1:20	SCAL

DATE	05/20/20	REVISION	100% SUBMITTAL	APPROVED
DESIGNED BY: MOHAMMAD SHAHADI	CHECKED BY: MUSLIM RULHAN	UNPL/OTA	CONTRACT NO: XX	REV No
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABIL MOI	ENGINEERING DIVISION	PERS PROJECT	1:20	SCAL

UNDP / LOTFA AFGHANISTAN	KABIL, AFGHANISTAN
BUILDING 02 - GROUND FLOOR ENLARGED HOT & COLD WATER PLAN	

SHEET NUMBER
P-108



1
P-109

PROPOSED TOILET
GROUND FLOOR PLAN - PLUMBING (HOT & COLD WATER)
SCALE: 1:20

FLOOR PLAN NOTES:

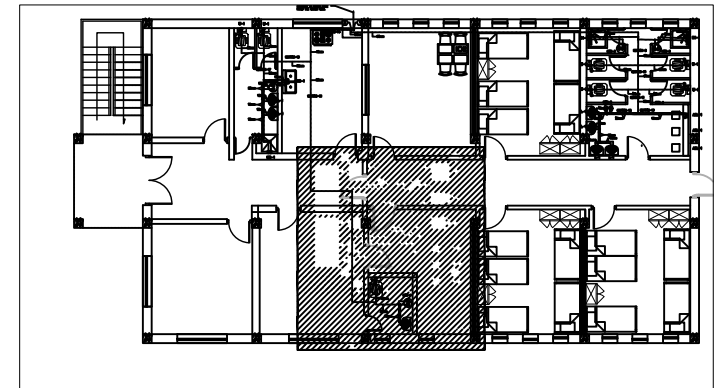
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5. REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
6. ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

GROUND FLOOR WATER KEY NOTES:

- 1 50mm WATER LINE DOWN EXTENDED FROM ROOF WATER TANK TO GROUND FLOOR FIXTURES
- 2 50 mm WATER LINE EXTENDED FORM WATER WELL TO ROOF WATER TANK

PLUMBING SYMBOLS

— SS —	SANITARY SEWER PIPING (BELOW GROUND)
— SS —	SANITARY SEWER PIPING (ABOVE GROUND)
- - - - -	VENT PIPING (V)
- - - - -	COLD WATER PIPING (CW)
- - - - -	HOT WATER PIPING (HW)
— P —	PROPANE LINE
⊙ — P —	TWO STAGE PRESSURE GAUGE
●	BALL VALVE
— <— > —	BACKFLOW PREVENTER
— ⊕ — OR — —	CLEANOUT (CO.)
⊙	ROOF PENETRATION

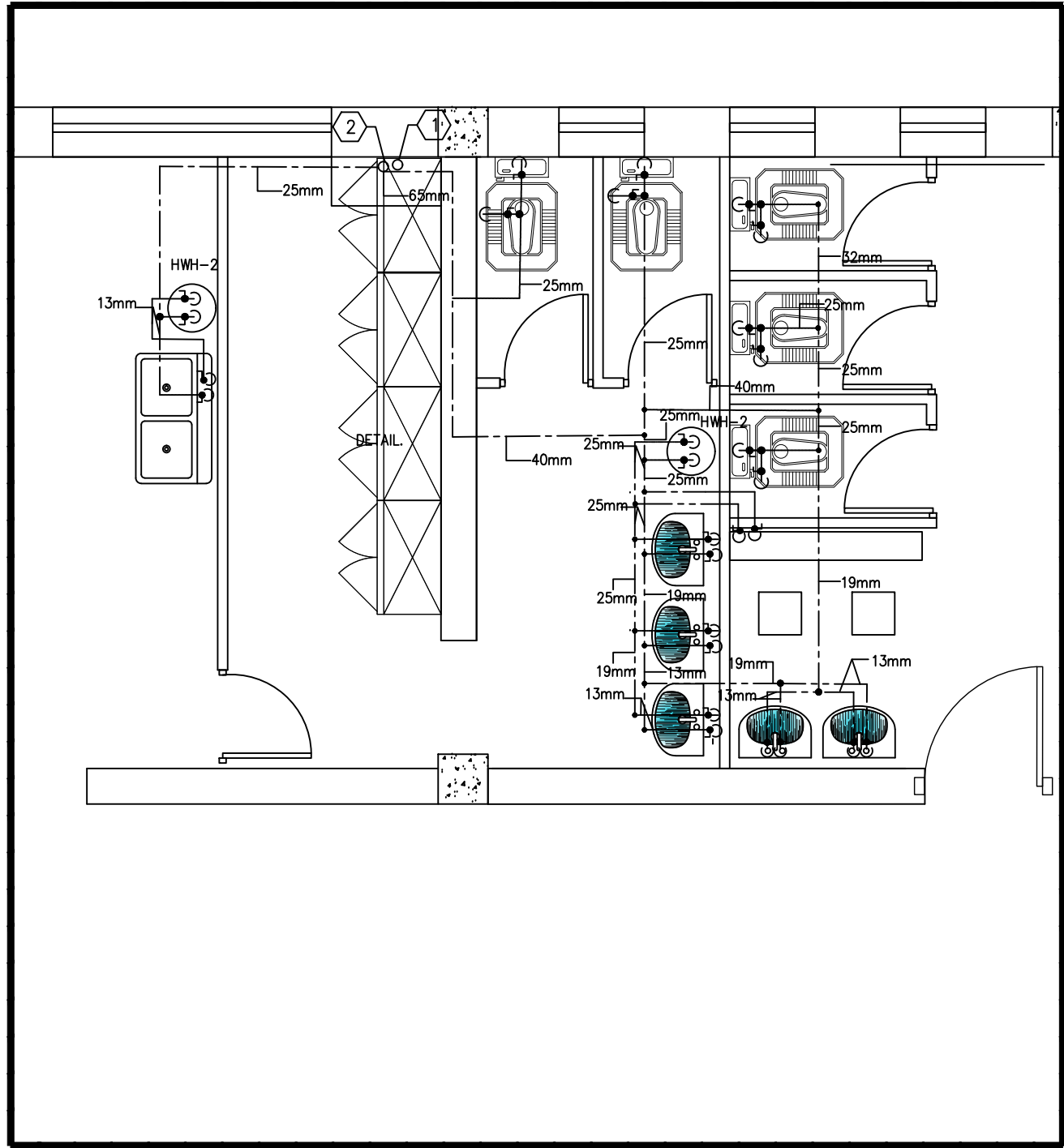


SCAL	1:20
REV No	1
REVISION	100% SUBMITTAL
DATE	05/20/20
APPROVED	XX
DESCRIPTION	FIRST ISSUE

DESIGNED BY: MOHAMMAD SHAHADI	CHECKED BY: MUSLIM RUHAN	DATE: 02/23/2020	SUBMITTED BY: UNDP/LOTA	CONTRACT NO.: XX
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI		ENGINEERING DIVISION PERS PROJECT		

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - GROUND FLOOR ENLARGED HOT & COLD WATER PLAN

SHEET NUMBER P-109



1
P-110
PROPOSED TOILET AND KITCHEN
FIRST FLOOR PLAN - PLUMBING (HOT & COLD WATER)
SCALE: 1:20

FLOOR PLAN NOTES:

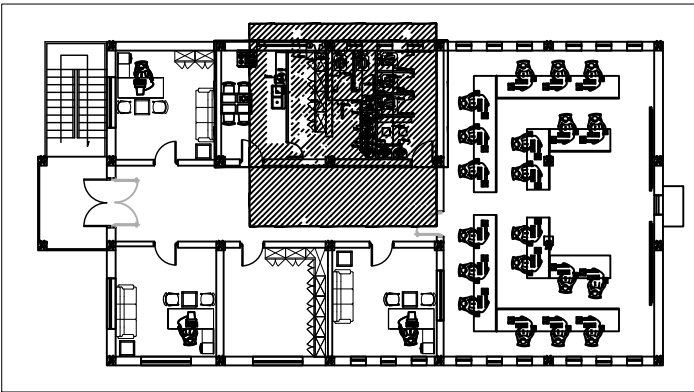
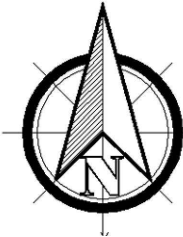
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- REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
- ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

1ST FLOOR WATER KEY
NOTES:

- 1 65mm WATER LINE DOWN EXTENDED FROM ROOF WATER TANK TO GROUND FLOOR FIXTURES
- 2 50 mm WATER LINE EXTENDED FORM WATER WELL TO ROOF WATER TANK

PLUMBING SYMBOLS

- SS SANITARY SEWER PIPING (BELOW GROUND)
- SS SANITARY SEWER PIPING (ABOVE GROUND)
- V VENT PIPING (V)
- CW COLD WATER PIPING (CW)
- HW HOT WATER PIPING (HW)
- P PROPANE LINE
- P TWO STAGE PRESSURE GAUGE
- BV BALL VALVE
- BP BACKFLOW PREVENTER
- CO OR CLEANOUT (CO.)
- RP ROOF PENETRATION

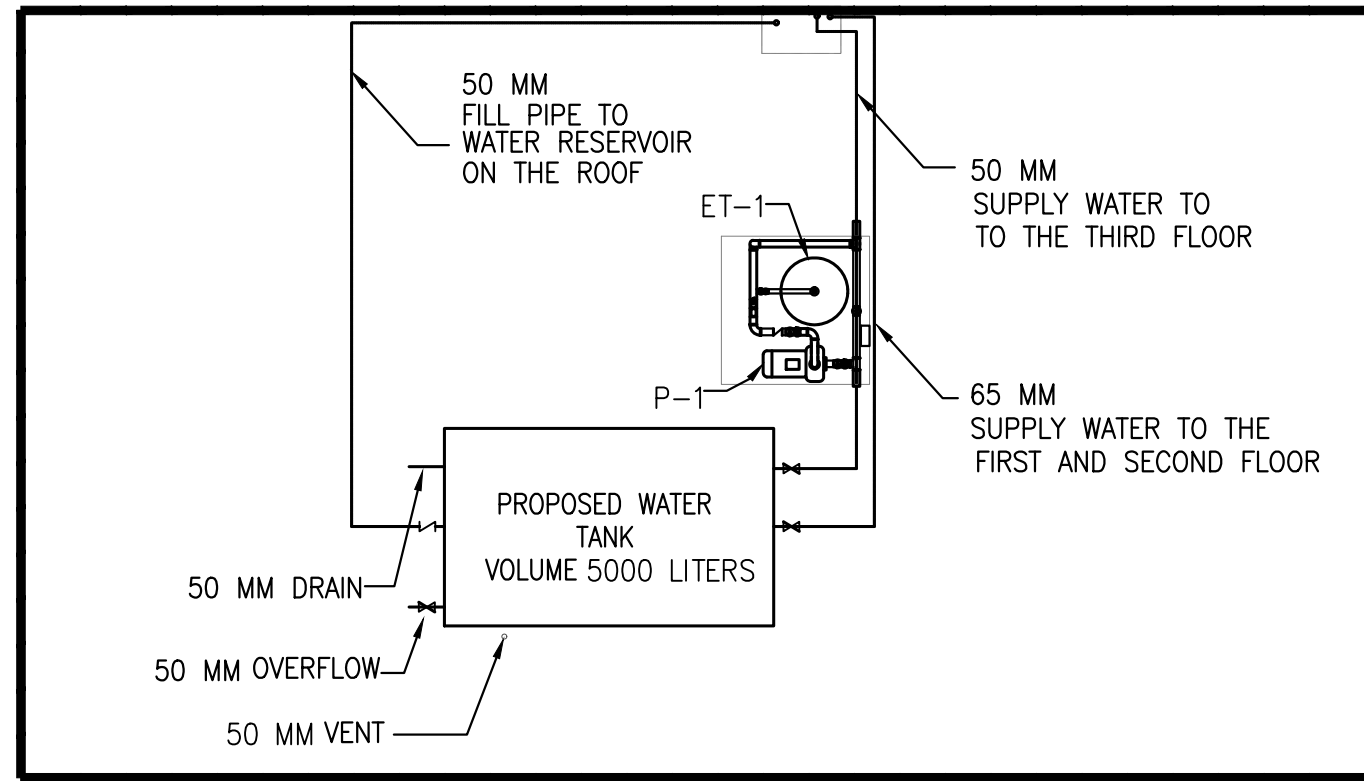


SCAL	1:20
REVISION	100% SUBMITTAL
FIRST ISSUE	XX
REV No	1
DESCRIPTION	XX
Date	05/29/20
APPROVED	XX

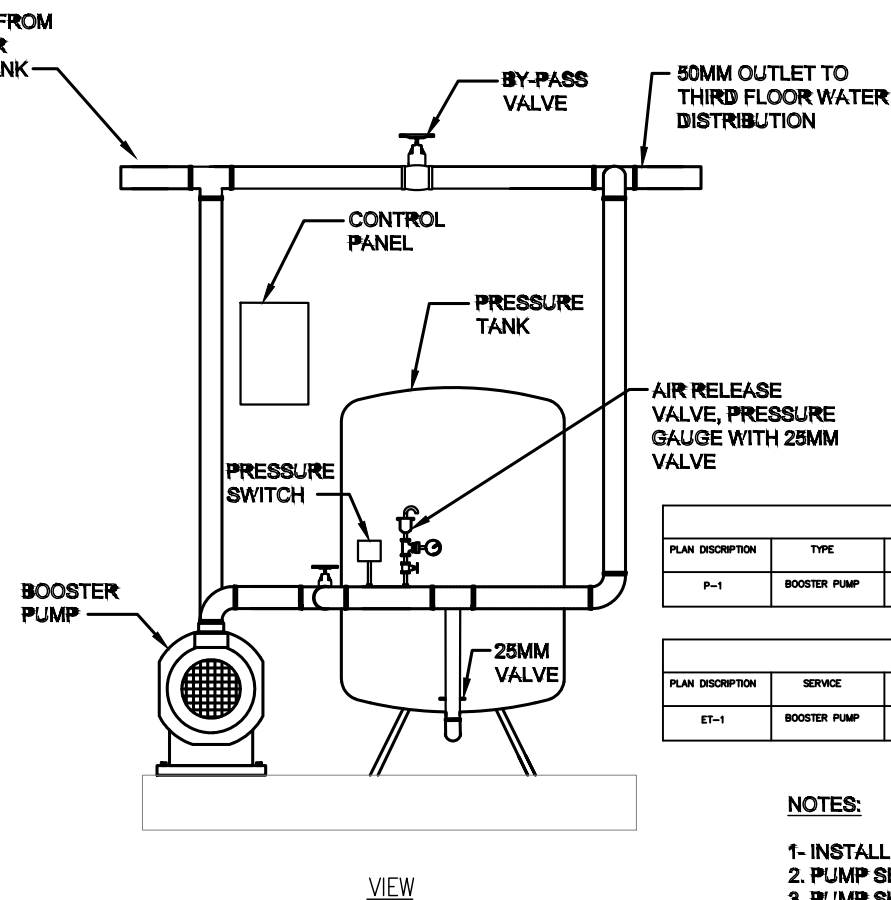
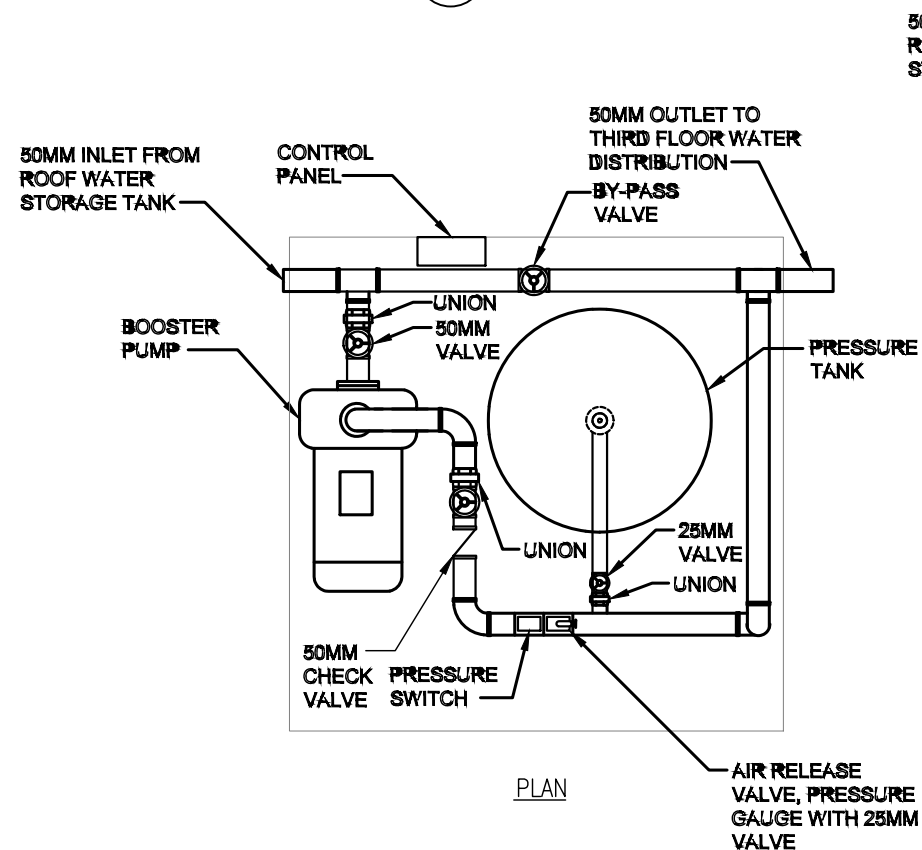
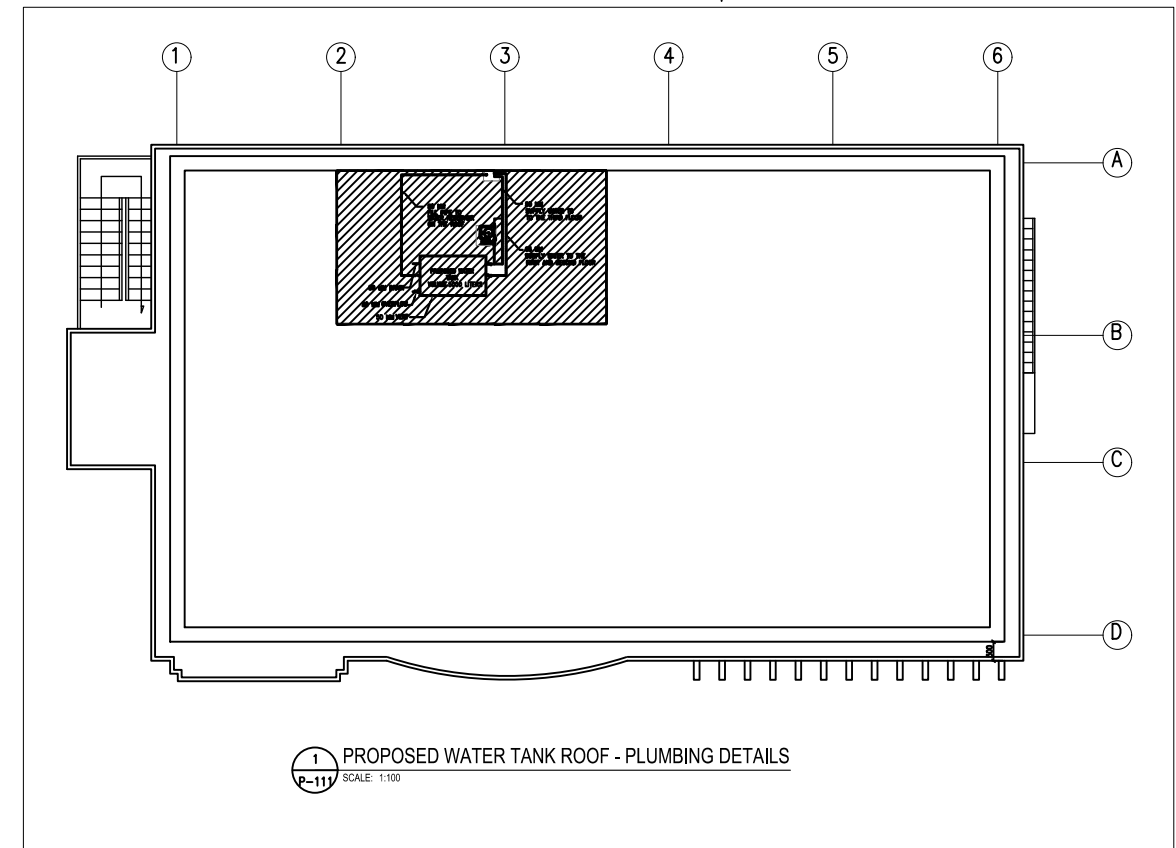
DESIGNED BY: MOHAMMAD SHAHADI	DATE: 02/23/2020	SUBMITTED BY: UNPL/LOTA	CONTRACT NO: XX
CHECKED BY: MUSLIM RUHAN		APPROVED BY: ASMAHAN ALWABSHIEH	T.O. 01
UNITED NATIONS DEVELOPMENT PROGRAM LOTA PROJECT AFGHANISTAN KABUL MOI	ENGINEERING DIVISION	PERS PROJECT	

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - FIRST FLOOR ENLARGED HOT & COLD WATER PLAN
--

SHEET NUMBER
P-110



1 PROPOSED WATER TANK ROOF - PLUMBING DETAILS
P-111 SCALE: 1:20



2 PROPOSED BOOSTER PUMP SET DETAILS
P-111 SCALE: NTS

BOOSTER PUMP SCHEDULE							
PLAN DISORPTION	TYPE	SERVICE	FLOW RATE (L/M)	OPERATING HEAD (M)	MOTOR POWER (W)	ELECTRICAL (V/HZ/PHASE)	DISCHARGE AND SUCTION SIZES (MM)
P-1	BOOSTER PUMP	DOMESTIC COLD WATER	170	15	750	220/50/1	40

EXPANSION TANK (ET) SCHEDULE							
PLAN DISORPTION	SERVICE	TYPE	TANK VOLUME (L)	ACCEPTANCE VOLUME (L)	TANK RATED PRESSURE (BAR)	MAX RELIEF PRESSURE (MPa)	MIN. SYSTEM PRESSURE (MPa)
ET-1	BOOSTER PUMP	BLADDER	100	100	5	517	103.4

- NOTES:
- 1- INSTALL WATER BOOSTER PUMP PER MANUFACTURER INSTRUCTIONS.
 2. PUMP SET SHALL BE EQUIPPED WITH MANUAL AND AUTO ON/OFF CONTROL.
 3. PUMP SHALL BE SET TO INCREASE INCOMING WATER PRESSURE BY 1.4 BAR.

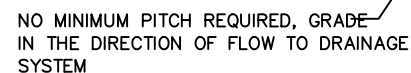
DATE	DESIGNED BY	CHECKED BY	APPROVED BY	REVISION	100% SUBMITTAL	FIRST ISSUE	DATE
05.05.20	MOHAMMAD SHAH AZU	MOHAMMAD SHAH AZU	MOHAMMAD SHAH AZU	3	XX	XX	XX
1:20	SCAL						

UNITED NATIONS DEVELOPMENT PROGRAM	DESIGNED BY	05.05.20	DATE
LOTFA PROJECT AFGHANISTAN	CHECKED BY	MOHAMMAD SHAH AZU	
KABUL MOI	APPROVED BY	MOHAMMAD SHAH AZU	
ENGINEERING DIVISION	CONTRACT NO.	XX	
PERS PROJECT	TO: 01	XX	

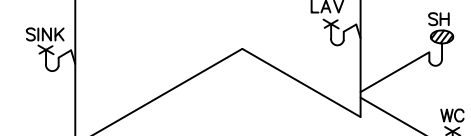
UNDP / LOTFA AFGHANISTAN	KABUL, AFGHANISTAN
BUILDING 02 - ROOF WATER SUPPLY ENLARGED PLAN AND DETAILS	

SHEET NUMBER
P-111

A



SCALE: N.T.S.



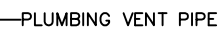
SCALE: N.T.S.



SCALE: N.T.S.



SCALE: N.T.S.



SCALE: NTS

FIXTURE LIST

ELECTRICAL WATER HEATER SCHEDULE

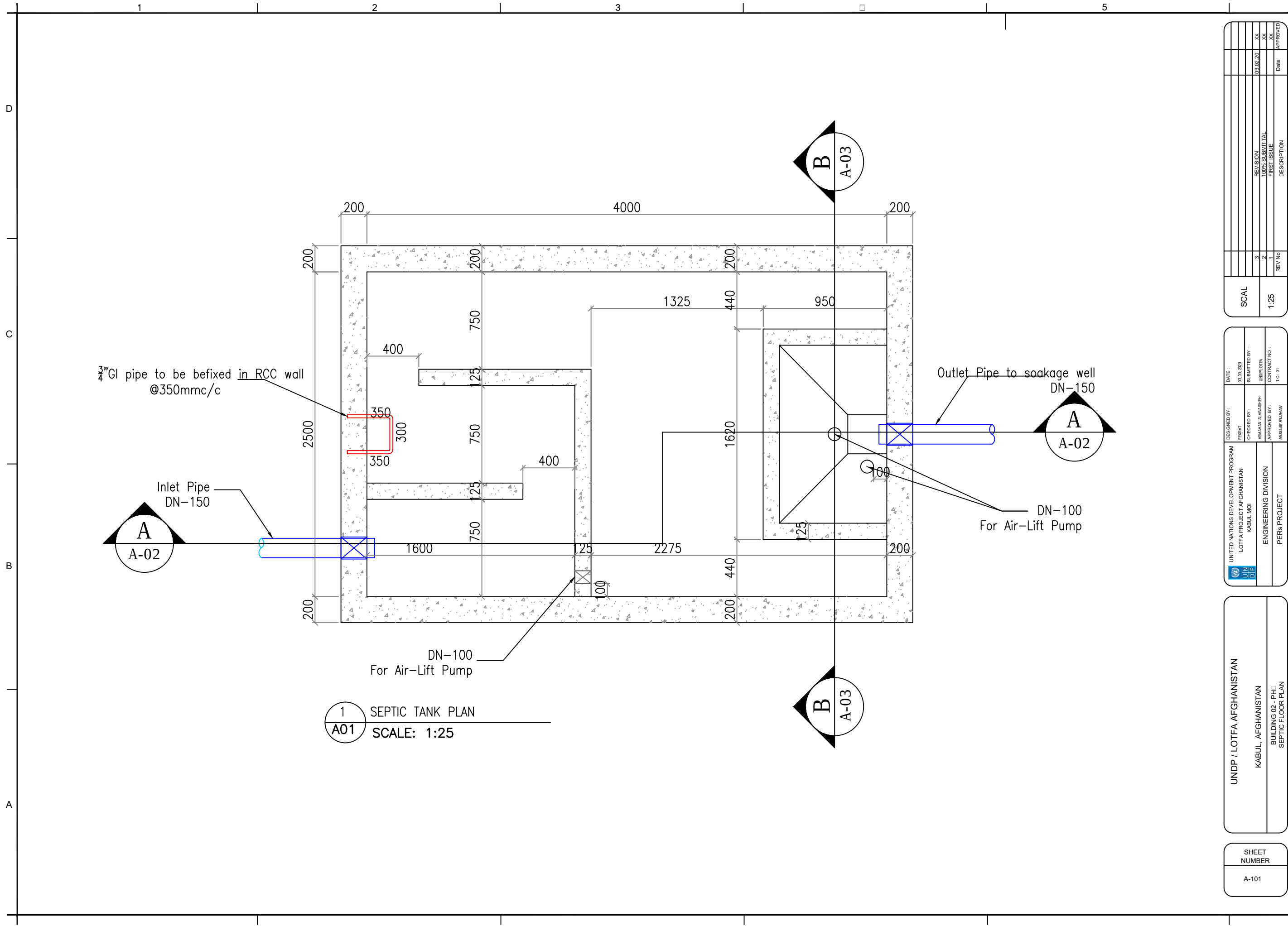
SCAL

IONS DEVELOPMENT PROGRAM
PROJECT AFGHANISTAN

UNDP / LOTFA AFGHANISTAN

SHEET
NUMBER

P-502



3/4" GI pipe to be befixed in RCC wall
@350mmc/c

Inlet Pipe
DN-150

Outlet Pipe to soakage well
DN-150

DN-100
For Air-Lift Pump

DN-100
For Air-Lift Pump

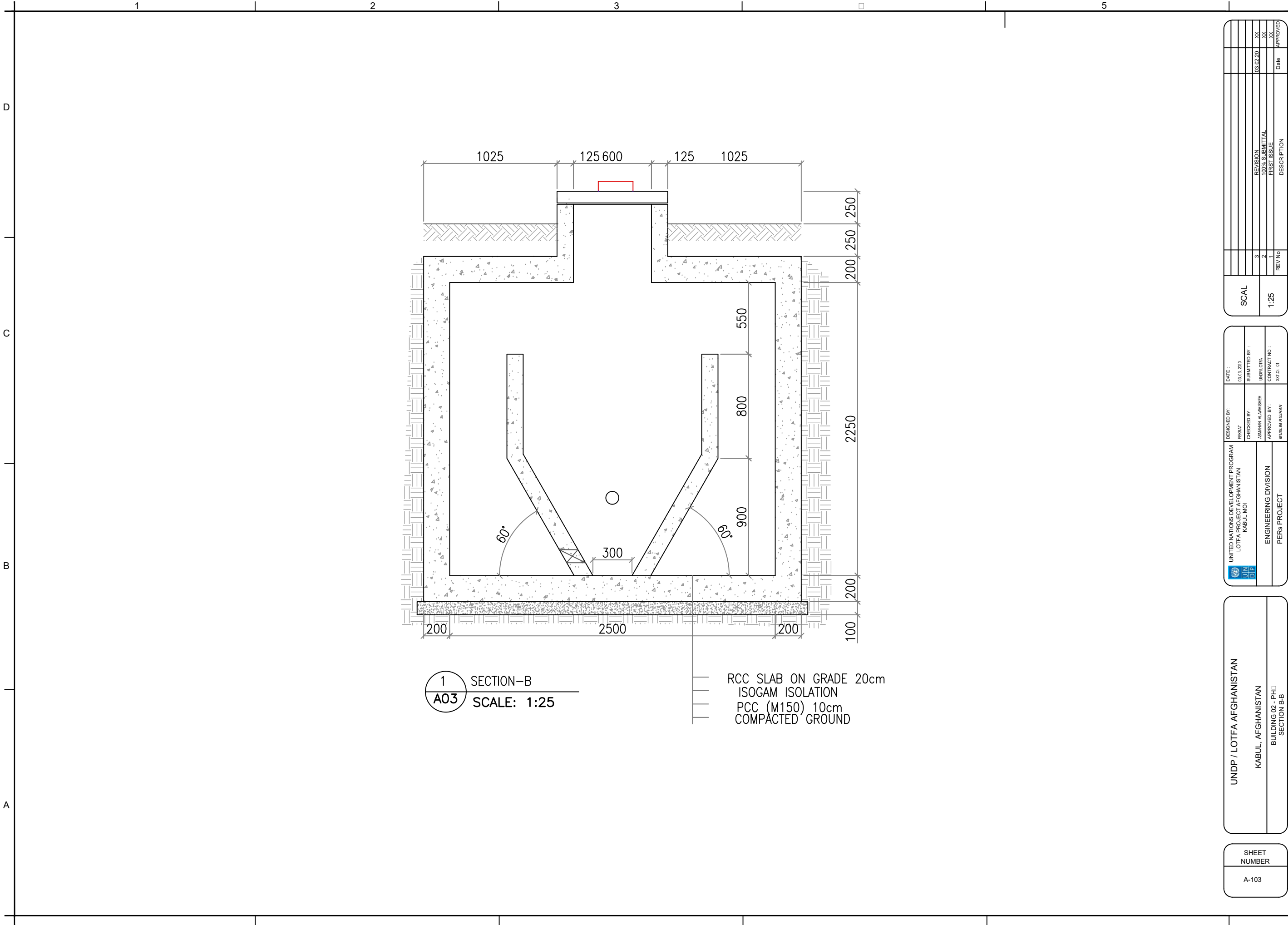
1 SEPTIC TANK PLAN
A01 SCALE: 1:25

REVISION	DATE	DESCRIPTION
3	03.02.20	100% SUBMITTAL
2	03.02.20	FIRST ISSUE
1	03.02.20	REVISION

UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY: FERBAT	CHECKED BY: ASHKAR ALAMSHER	DATE: 03.03.2020
ENGINEERING DIVISION PERs PROJECT	APPROVED BY: MUSLIM RUAHAN	CONTRACT NO.: T.O. 01	SUBMITTED BY: UNDP/LOFA

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PH-1 SEPTIC FLOOR PLAN

SHEET NUMBER A-101



1 SECTION-B
A03 SCALE: 1:25

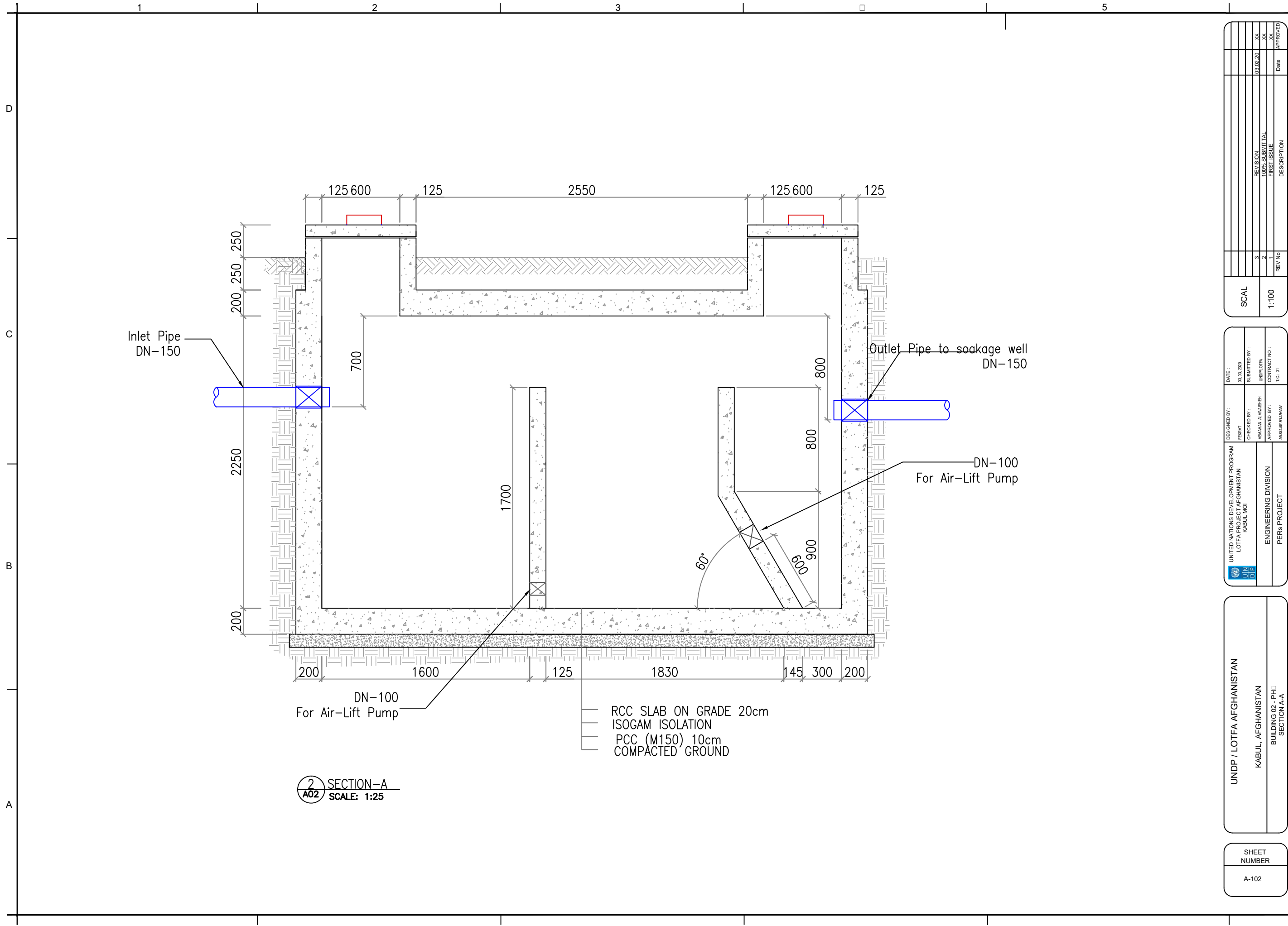
RCC SLAB ON GRADE 20cm
ISOGAM ISOLATION
PCC (M150) 10cm
COMPACTED GROUND

REVISION	DATE	DESCRIPTION
3	03.02.20	XX
2		XX
1		XX
REV/No		
1:25		
SCAL		

UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY: FERBAT	DATE: 03.03.2020
ENGINEERING DIVISION PERs PROJECT	CHECKED BY: ASHKAR ALAMSHER	SUBMITTED BY: UNDP/LOTA
	APPROVED BY: MUSLIM RULHAN	CONTRACT NO.: XX/O.01

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PH SECTION B-B

SHEET NUMBER
A-103



2 SECTION-A
A02 SCALE: 1:25

RCC SLAB ON GRADE 20cm
ISOGAM ISOLATION
PCC (M150) 10cm
COMPACTED GROUND

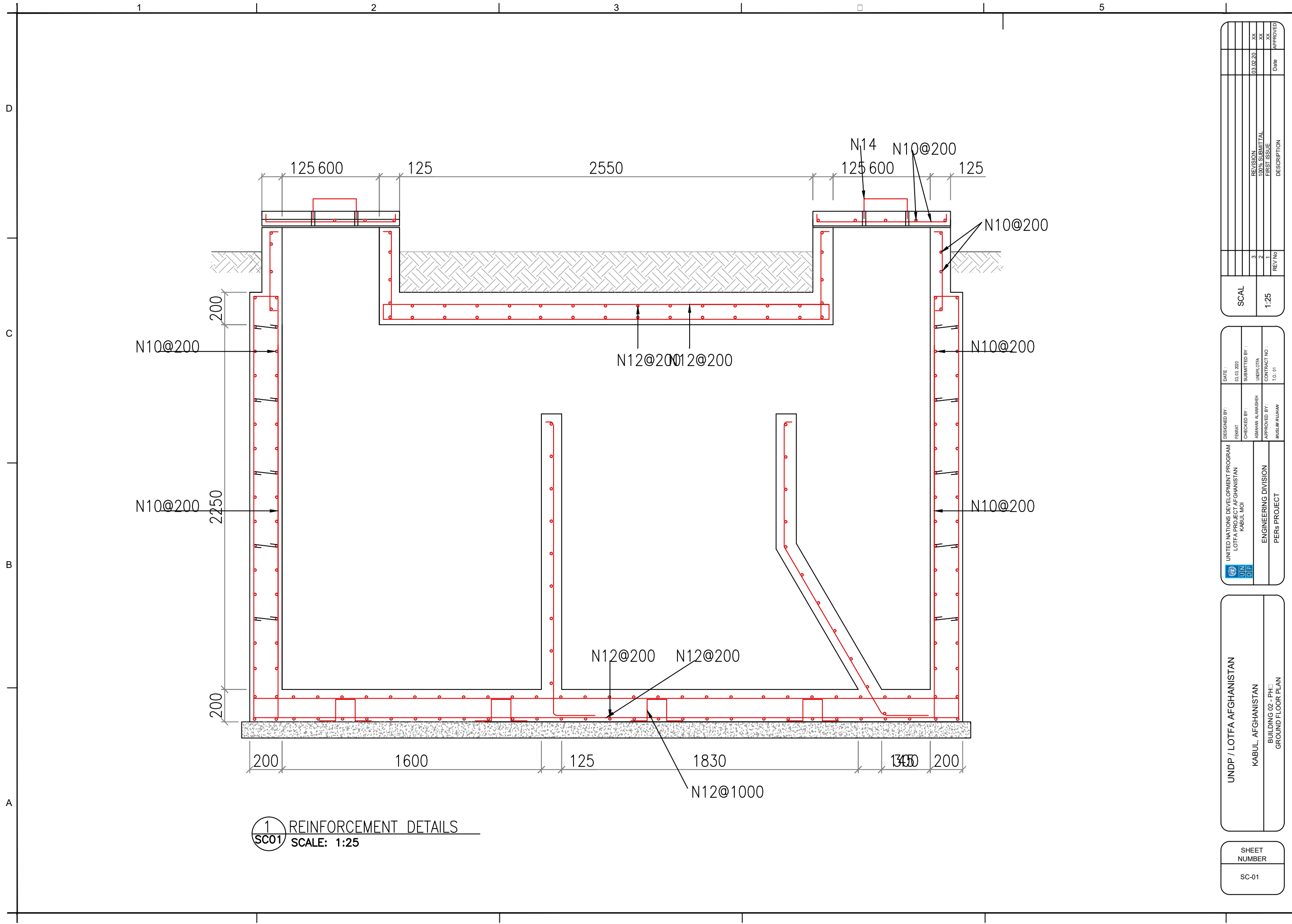
REV/No	DESCRIPTION	Date	APPROVED
3	REVISION	03.02.20	XX
2	100% SUBMITTAL		XX
1	FIRST ISSUE		XX

SCAL 1:100

DESIGNED BY: FERDAT	DATE: 03.03.2020
CHECKED BY: ASHRAF ALAMISHI	SUBMITTED BY: UNDP/LOTA
APPROVED BY: MUHAMMAD RULHAN	CONTRACT NO: T.O. 01
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	
ENGINEERING DIVISION PERs PROJECT	

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PH SECTION A-A

SHEET NUMBER A-102



125 600 125 2550 125 600 125

N14 N10@200

N10@200

200

N10@200

2250

N10@200

200

200 1600 125 1830 1400 200

N12@200 N12@200

N12@1000

N12@200 N12@200

N10@200

N10@200

1 REINFORCEMENT DETAILS
SC01 SCALE: 1:25

REV/No	DESCRIPTION	Date	APPROVED
3	REVISION	03.02.20	XX
2	100% SUBMITTAL		XX
1	FIRST ISSUE		XX

SCAL 1:25

DESIGNED BY: FERBAT	DATE: 03.03.2020	SUBMITTED BY: UNDP/LOTA
CHECKED BY: ASHRAF ALAMSHER	APPROVED BY: MUSLIM RULHAN	CONTRACT NO.: T.O. 01
UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI		
ENGINEERING DIVISION PERs PROJECT		

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PH 1 GROUND FLOOR PLAN

SHEET NUMBER
SC-01

PROJECT: UNDP/ LUTFA KABUL AFGHANISTAN PHQ BUILDING BUILDING RENOVATION REFERENCES SHEET

ARCHITECTURAL DRAWINGS			ELECTRICAL DRAWINGS			MECHANICAL DRAWINGS		
NO	DRAWING NAME	PAGES NUMBER	NO	DRAWING NAME	PAGES NUMBER	NO	DRAWING NAME	PAGES NUMBER
1	COVER PAGE	A-100	1	GENERAL ELECTRICAL LEGEND & NOTES	E-00-20	1	HAVC GROUND FLOOR PLAN	M-101
2	SITE PLAN	A-101A	2	GROUND FLOOR LIGHTING PLAN	E-01-20	2	HAVC FIRST FLOOR PLAN	M-102
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28	CALL CENTER SECTION	A-123						
29	GROUND FLOOR LIFE SAFETY PLAN	A-124						
30	FIRST FLOOR LIFE SAFETY PLAN	A-125						

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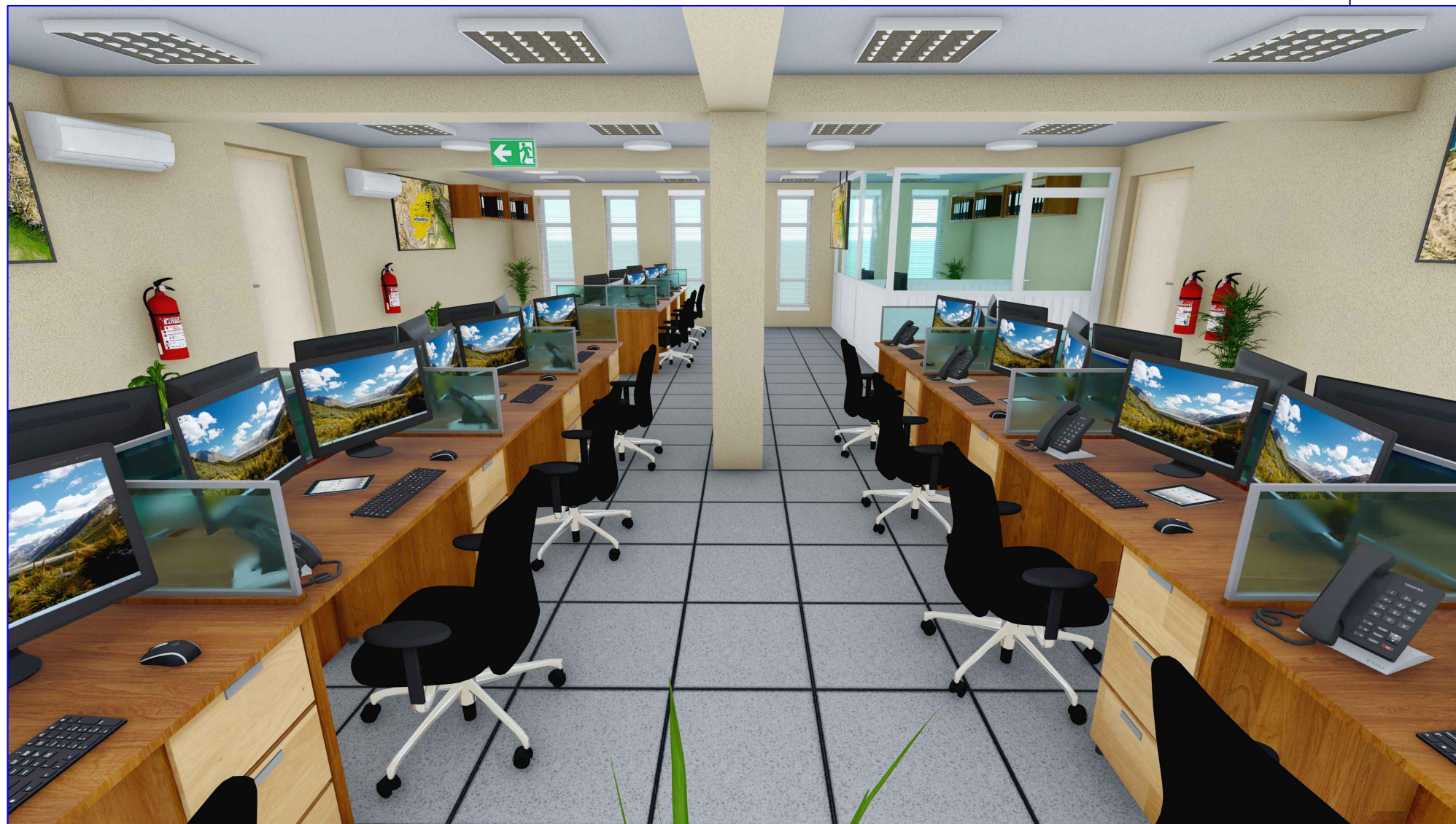
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	XX	02.09.2029
	CHECKED BY:	SUBMITTED BY :
	XX	UNDG/LOTA
ENGINEERING DIVISION	APPROVED BY:	CONTRACT NO.
PERS PROJECT	XX	T.O. 01

UNDP / LOTFA AFGHANISTAN

KABUL, AFGHANISTAN

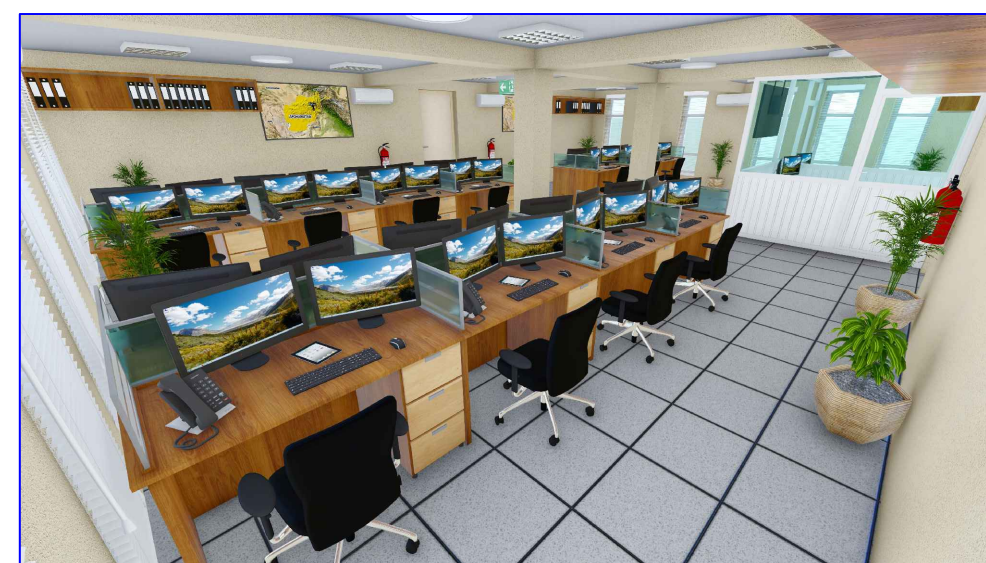
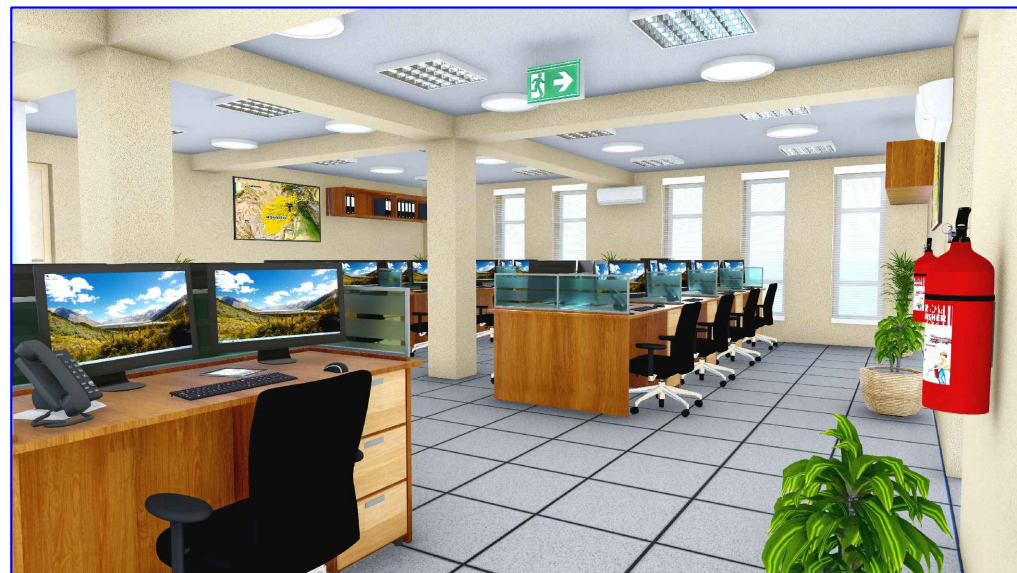
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100% ARCHITECTURAL DESIGN SUBMITTAL

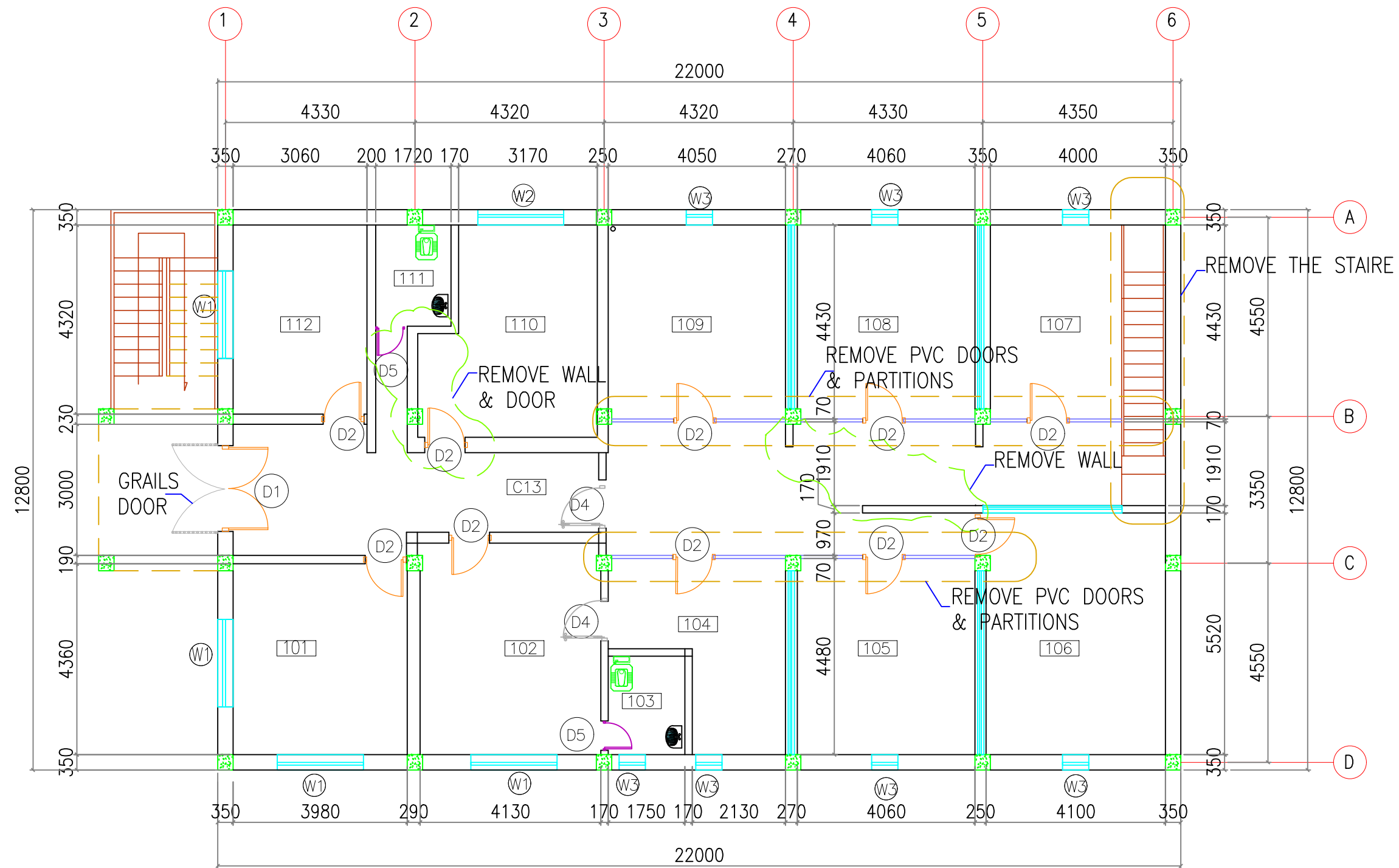
PROJECT: UNDP/ LUTFA
PHQ BUILDING ARCHITECTURAL DRAWINGS
KABUL , AFGHANISTAN
DATE: MARCH-09-2020

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 UNITED NATIONS DEVELOPMENT PROGRAM LOFPA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY:	DATE:
	XX	02.09.2020
	CHECKED BY:	SUBMITTED BY:
	XX	UNDP/LOFPA
ENGINEERING DIVISION	APPROVED BY:	CONTRACT NO:

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ

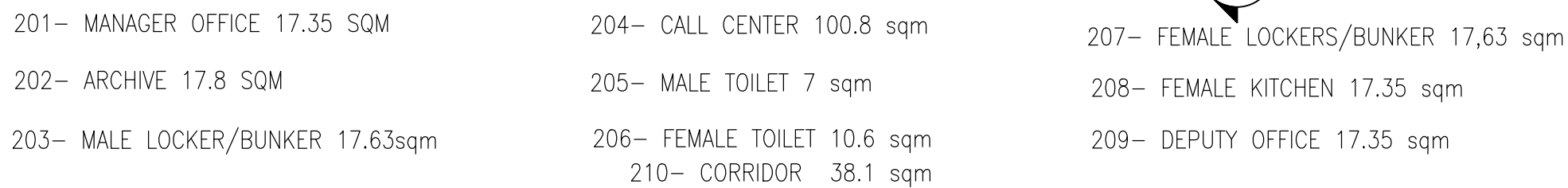
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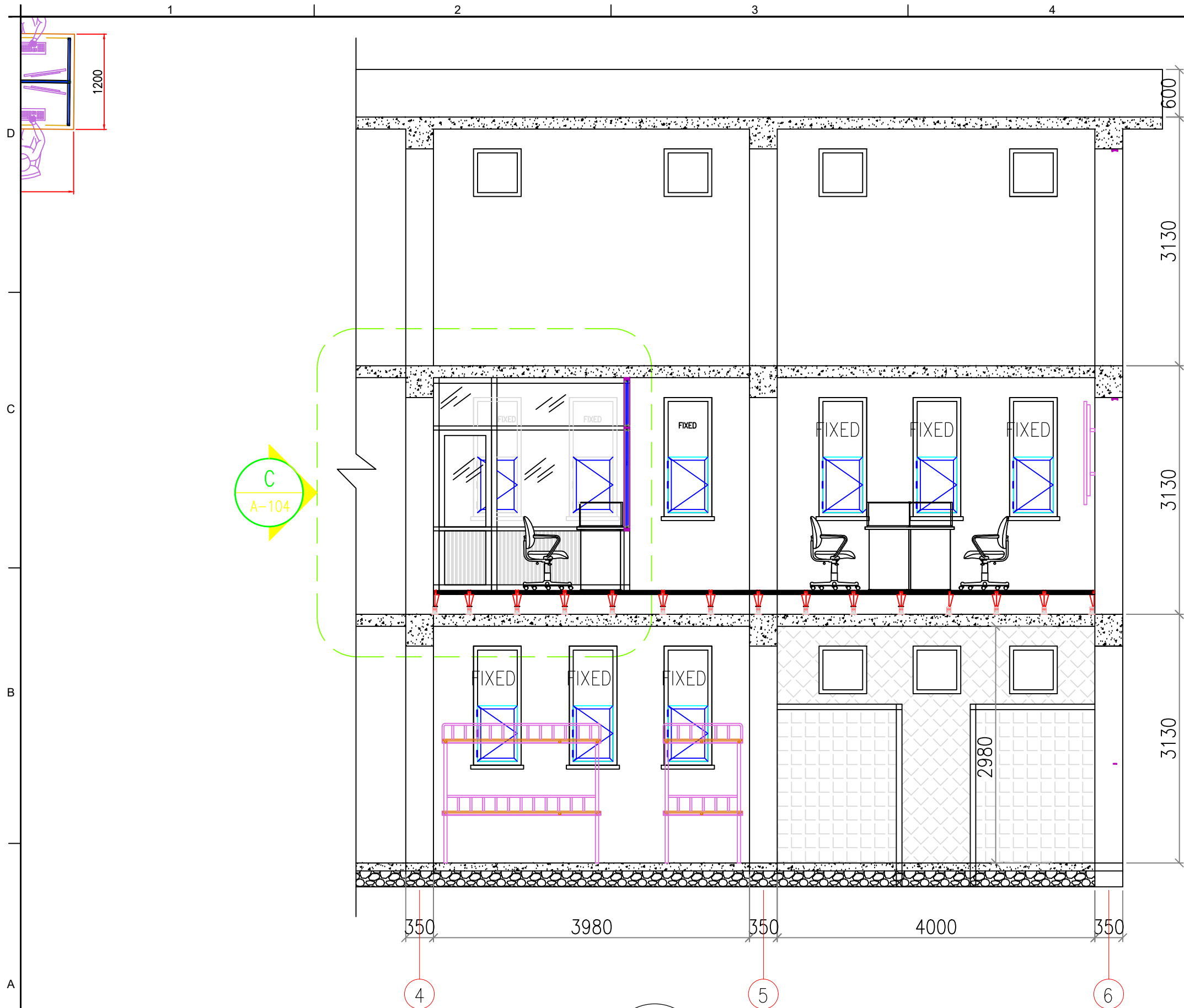
1 EXISTING GROUND FLOOR PLAN
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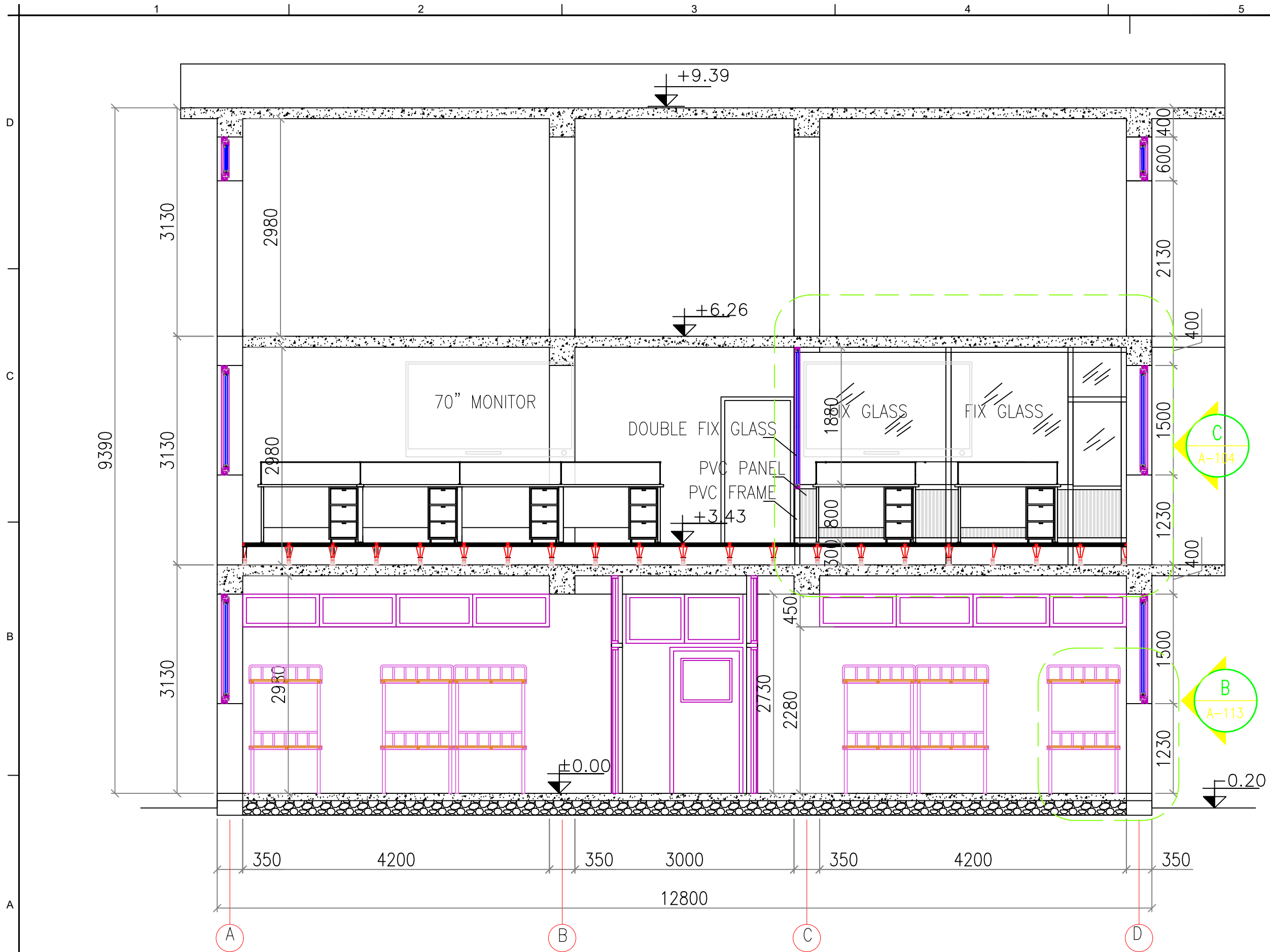
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SECTION B-B
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UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY: XX	DATE: 03.03.2020
ENGINEERING DIVISION PERS PROJECT	CHECKED BY: XX	SUBMITTED BY: UNDP/LOTA
	APPROVED BY: XX	CONTRACT NO.: XX
		T.O.: 01

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PHQ SECTION B-B
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SHEET NUMBER A-106B



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SECTION A-A
A-106
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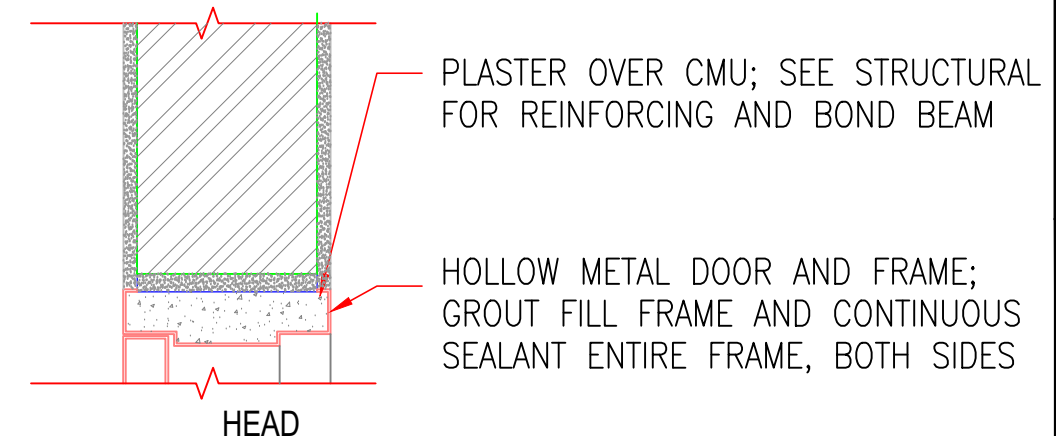


Diagram illustrating the cross-section of a door jamb assembly. The assembly includes:

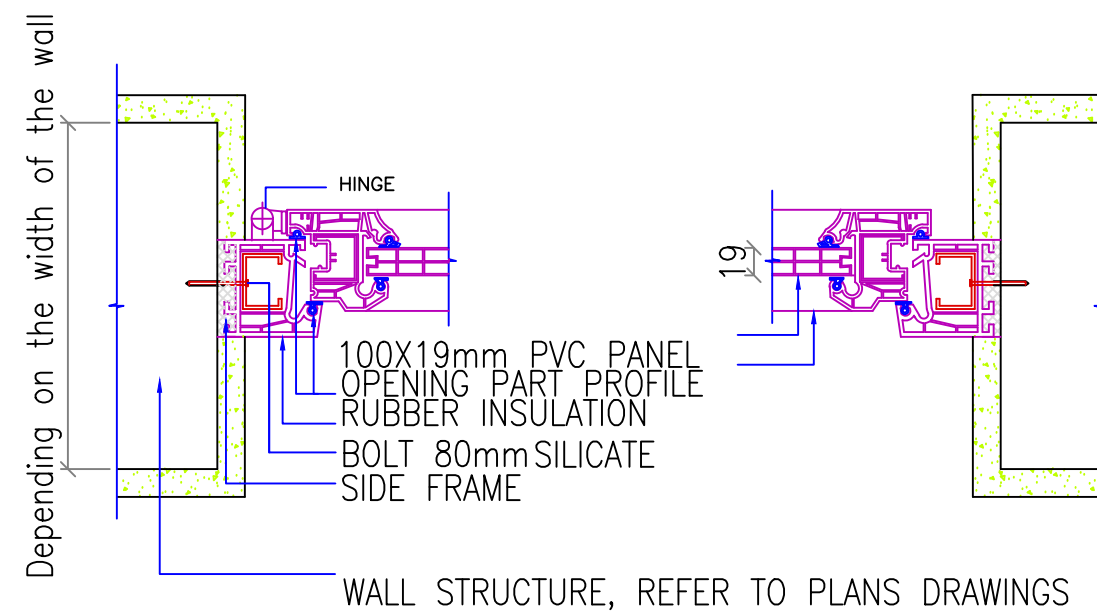
- PLASTER OVER CMU; SEE STRUCTURAL FOR REINFORCING
- JAMB ANCHOR, MINIMUM 3 PER JAMB
- JAMB
- HOLLOW METAL DOOR & FRAME

-
- A cross-section diagram of a concrete sidewalk and threshold assembly. The diagram shows a concrete sidewalk on the left, labeled "CONCRETE SIDEWALK", and a threshold on the right, labeled "THRESHOLD". A red line indicates the "FINISH FLOOR, AS NOTED". A blue line indicates the bottom of the concrete sidewalk. A red arrow points to the top of the concrete sidewalk, and a blue arrow points to the bottom of the concrete sidewalk. A red arrow points to the threshold, and a blue arrow points to the bottom of the threshold. A red arrow points to the finish floor, and a blue arrow points to the bottom of the finish floor.

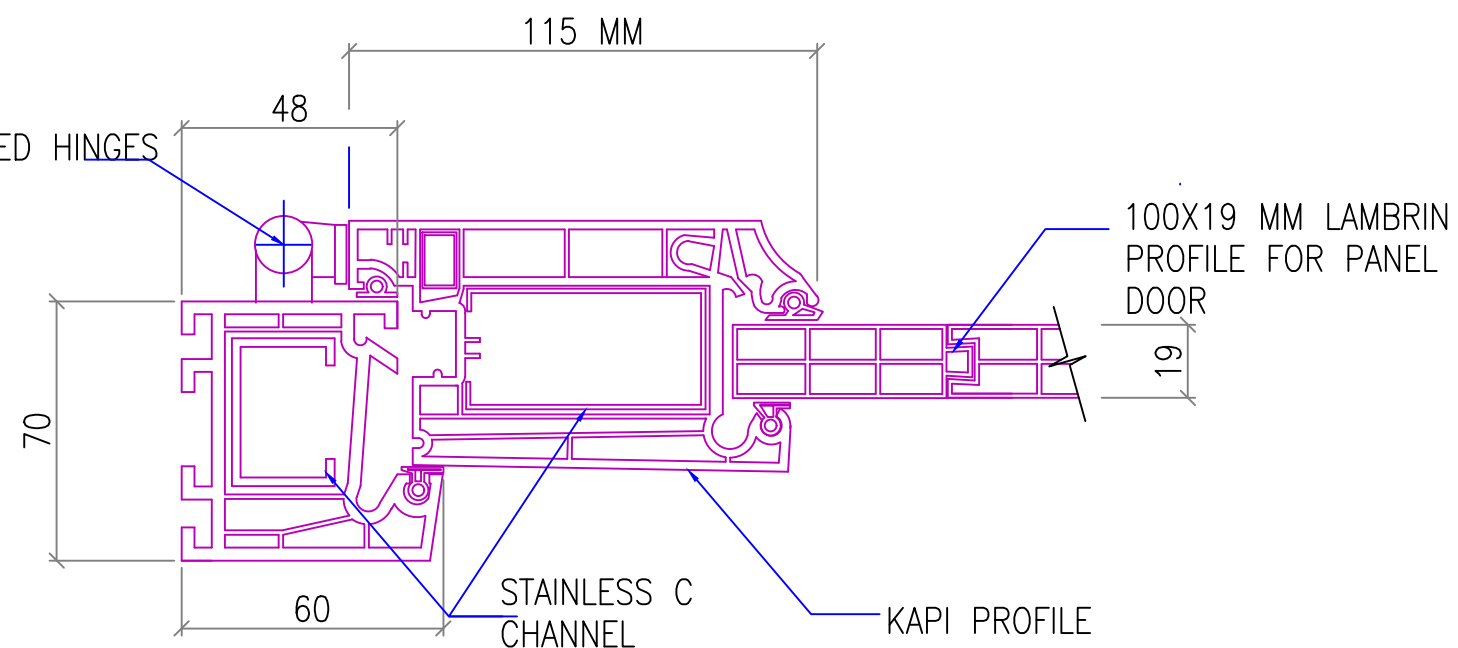
A. EXTERIOR: COMMERCIAL DUTY EXTERIOR HINGES (UL) SHALL HAVE NON-REMOVABLE PINS AND BE SATIN-CHROME STEEL OR STAINLESS STEEL; GRADE 1 ANTI-FRICTION

B. INTERIOR: COMMERCIAL DUTY INTERIOR HINGES (UL) SHALL BE GRADE 1; ANTIFRICTION OR BALL BEARING

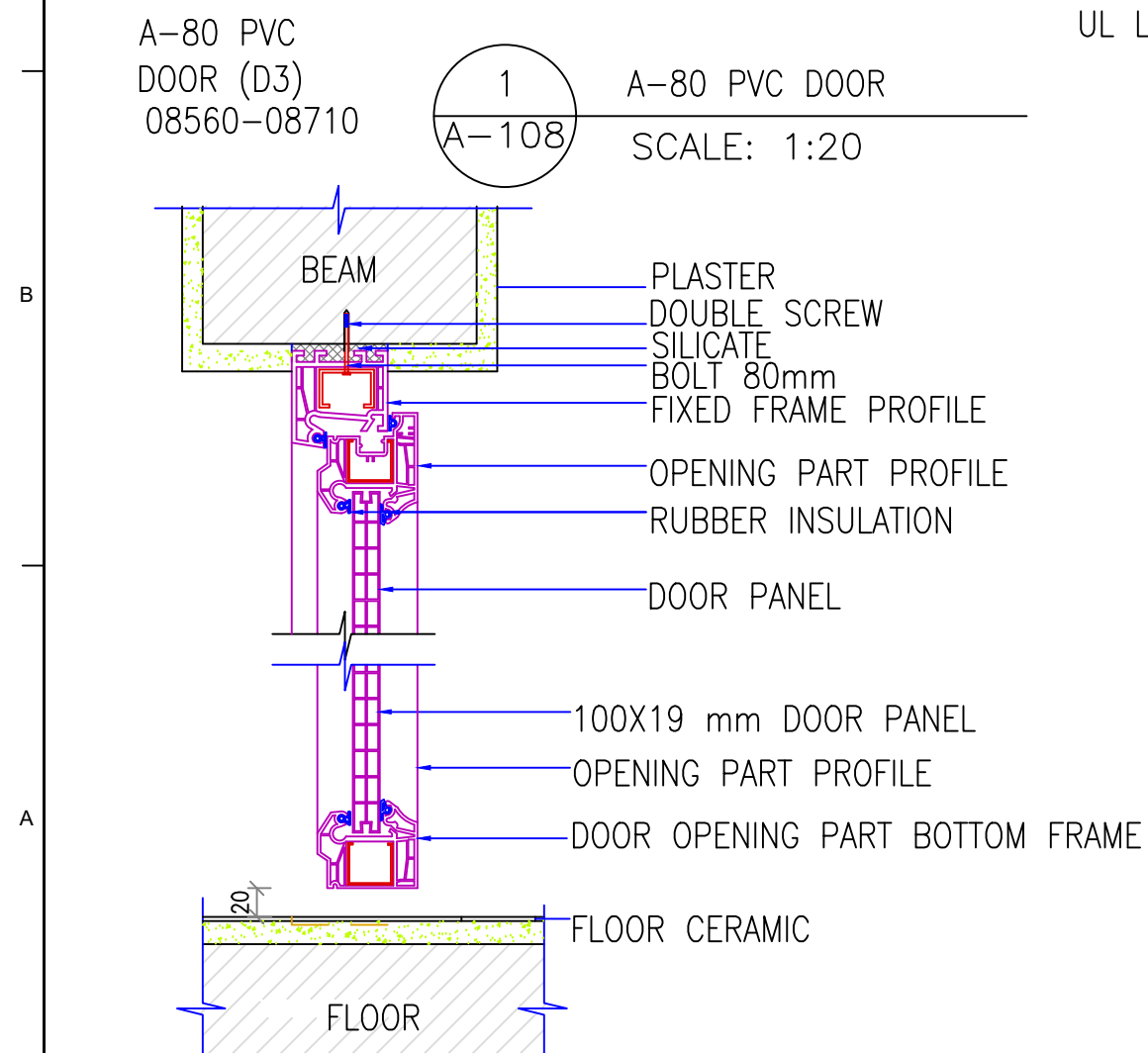
C. HINGES FOR LABELED FIRE DOORS MUST BE EITHER STEEL OR STAINLESS STEEL. HINGES SHALL CONFORM TO ANSI/BHMA A156.1 AND A156.7




 JAMB DETAIL, PVC DOOR
 SCALE 1:5



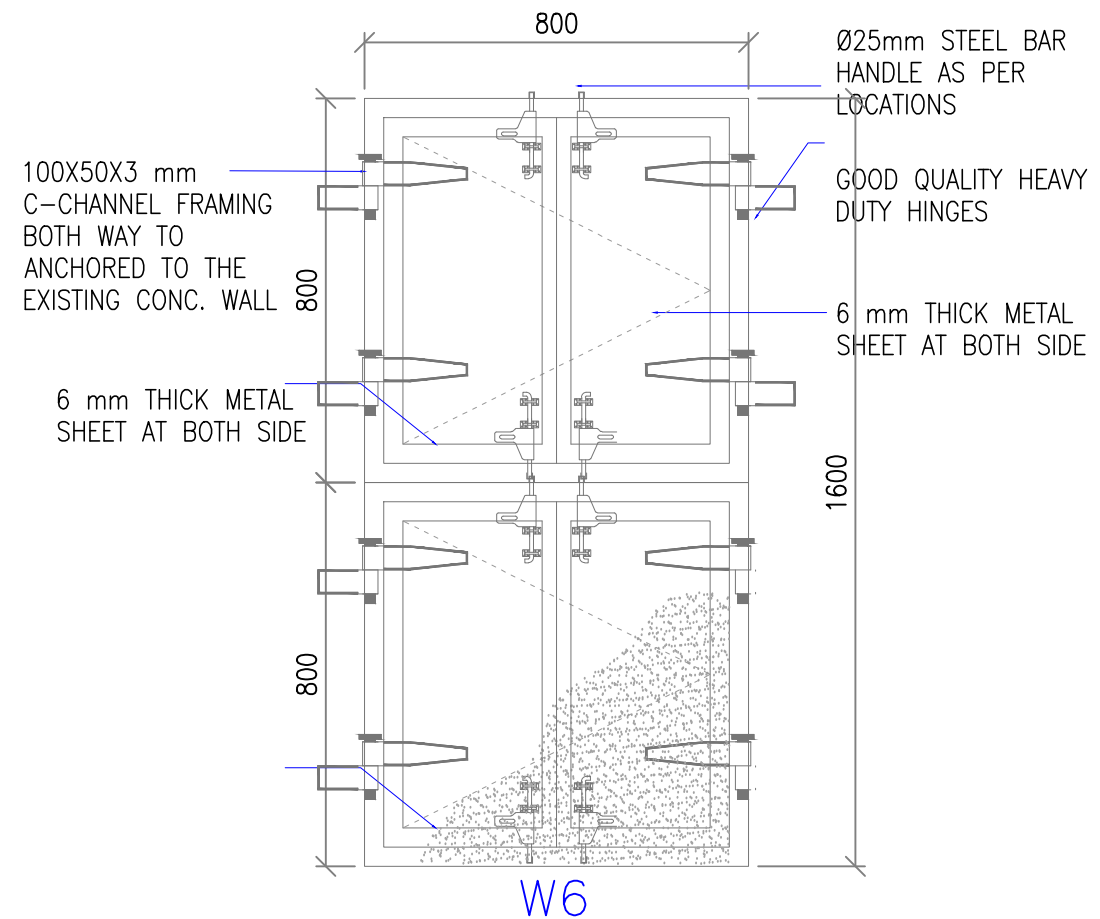
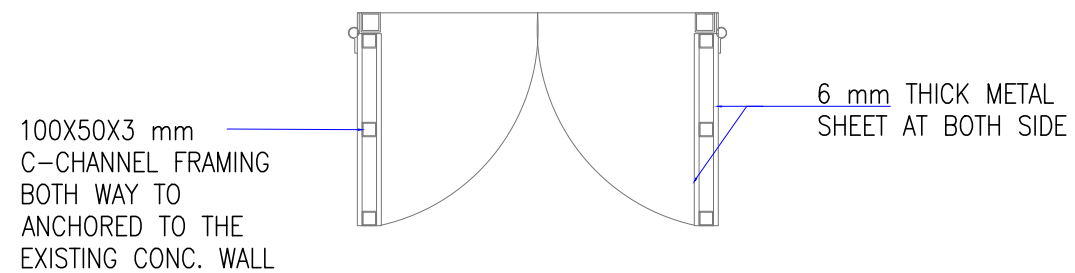
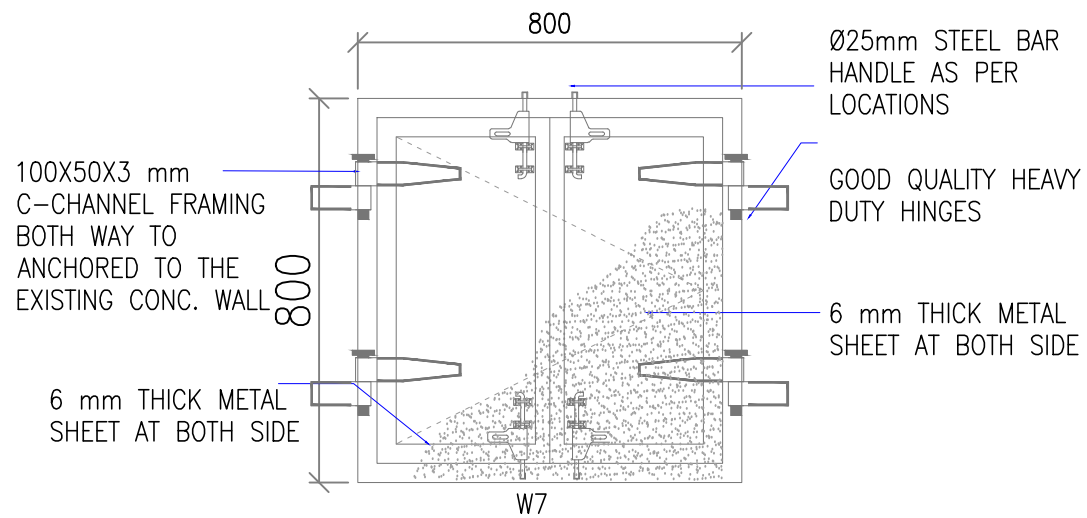
1 A-80 PVC DOOR DETAIL
A-08 SCALE: NTS

[illegible]

 UNITED NATIONS DEVELOPMENT PROGRAM LOIFA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY:	DATE:
	XX	03.09.2020
	CHECKED BY:	SUBMITTED BY:
	XX	UNDP/LOIFA
ENGINEERING DIVISION	APPROVED BY:	CONTRACT NO.

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ

SHEET
NUMBER
A-108



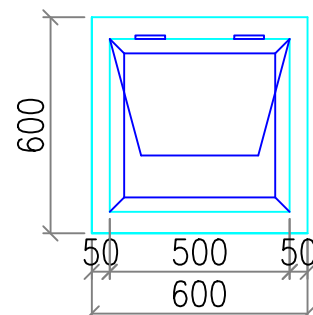
1 BLAST PROOF WINDOWS
A-109A
SCALE: 1:15

REV No	DESCRIPTION	Date	APPROVED
3	REVISION	05.03.20	XX
4	FOR SUBMITTAL		XX
1	FIRST ISSUE		XX
SCALE	1:15		

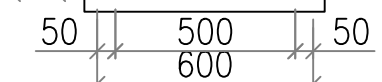
DESIGNED BY:	DATE:	SUBMITTED BY:
XX	01.03.2020	XX
CHECKED BY:	UNDP/LOTA	CONTRACT NO.:
XX		XX
APPROVED BY:	TO: 01	
XX		
UNITED NATIONS DEVELOPMENT PROGRAM LOTA PROJECT AFGHANISTAN KABUL MOI		
ENGINEERING DIVISION PERS PROJECT		

UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PHQ BLAST PROOF WINDOWS DETAILS
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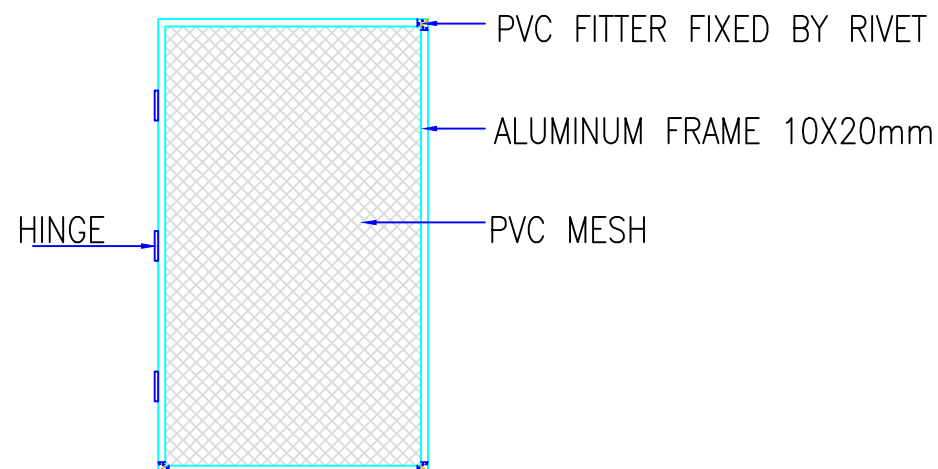
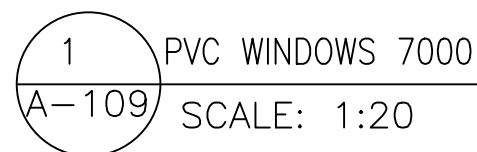
SHEET NUMBER
A-109



TOP HANG
WINDOW(W3)
08560

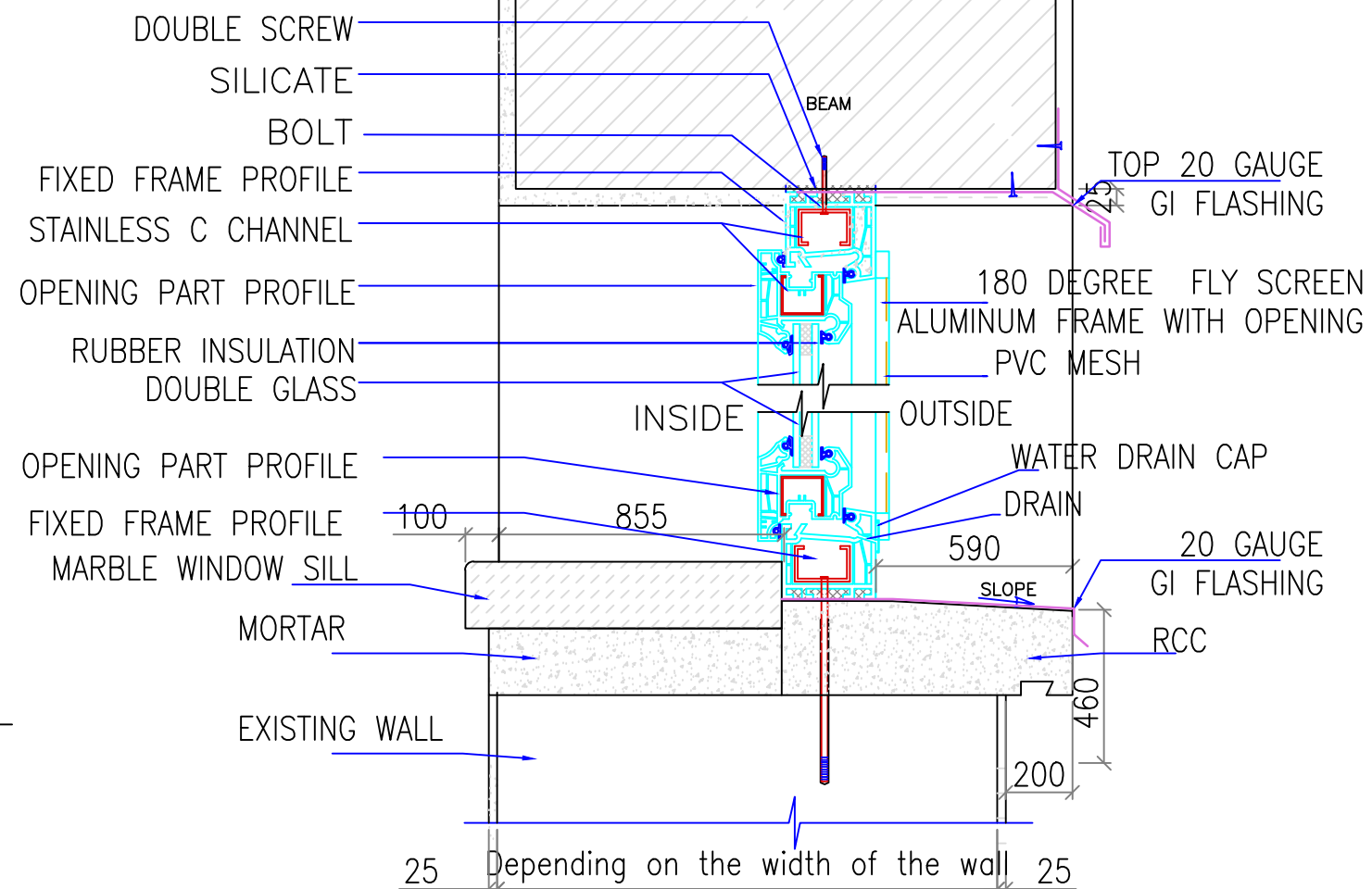


SIDE HANG WINDOW(W4)
08560

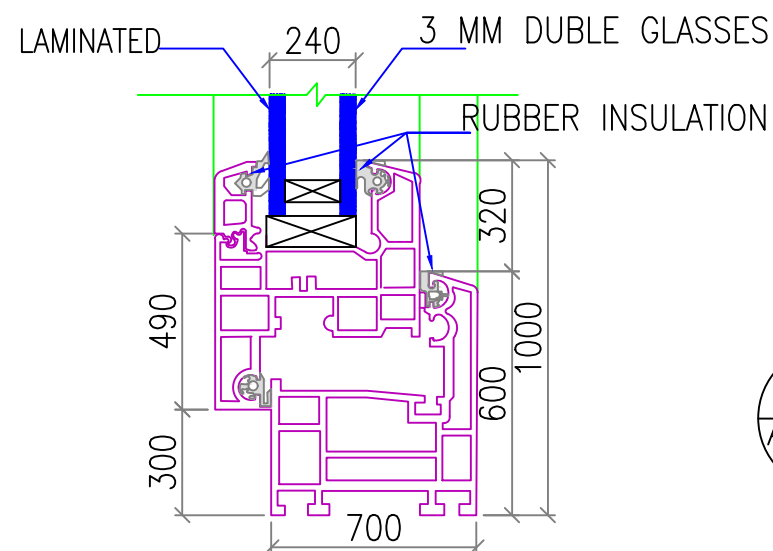


180 DEGREE FLY SCREEN
ALUMINUM FRAME WITH OPENING

2 PVC FLY SCREEN
A-109 SCALE: NTC



A SECTION
A-109 SCALE 1:5



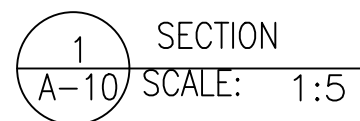
3 PVC WINDOW SECTION
A-109 SCALE: 1:5

[illegible]

 UNITED NATIONS DEVELOPMENT PROGRAM LOIFA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY:	DATE:
	XX	02.09.2020
	CHECKED BY:	SUBMITTED BY:
	XX	UNDP/LOIFA
ENGINEERING DIVISION	APPROVED BY:	CONTRACT NO.

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ

SHEET
NUMBER
A-109



AS PER SITE MEASUREMENT

1000

2540

300

300

1600

1000

DOOR CLOSER

5mm WIRE REINFORCEMENT GLASSES

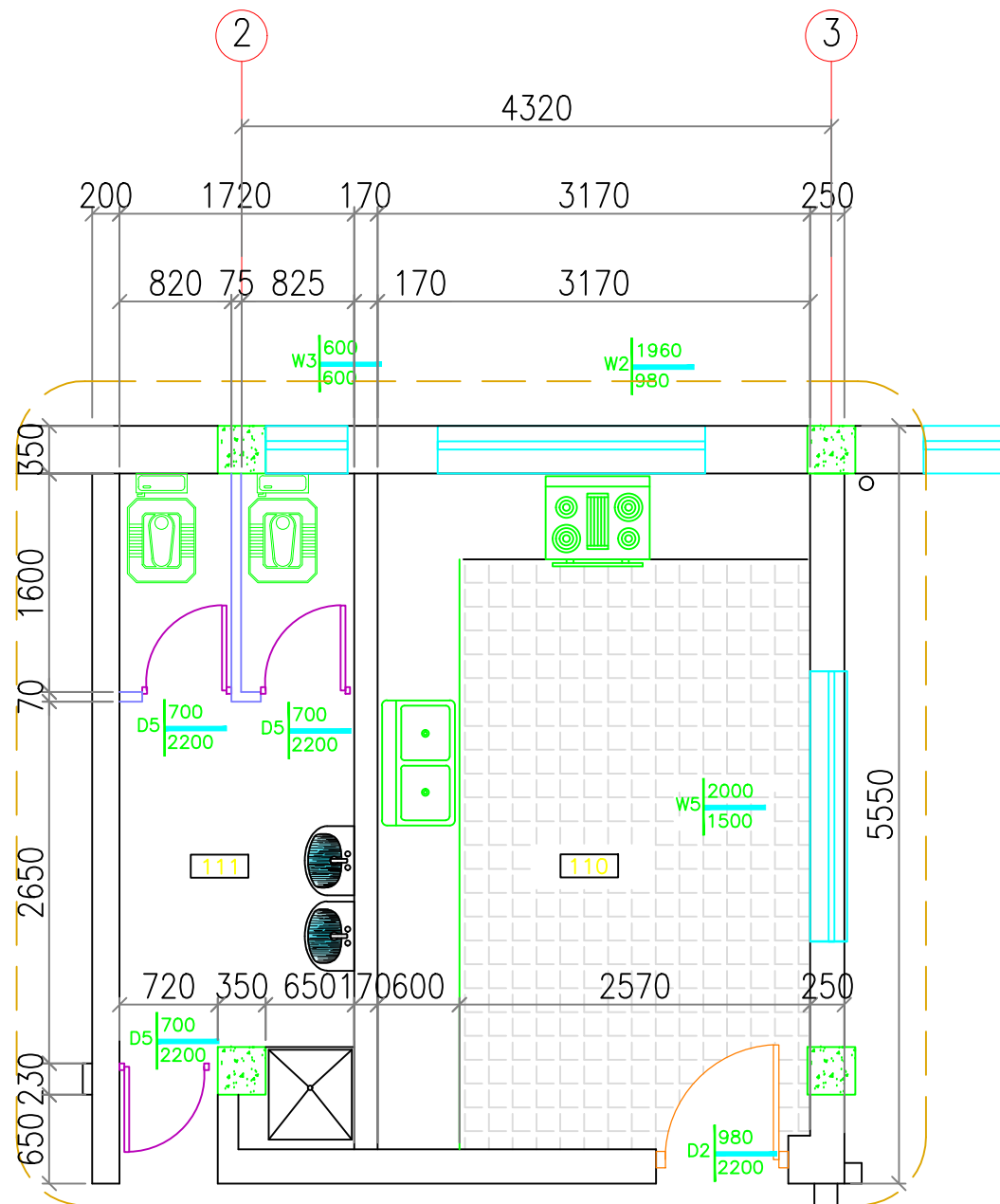
GASKET AROUND THE DOOR LEAF

WEATHER STRIPS ROBBER.

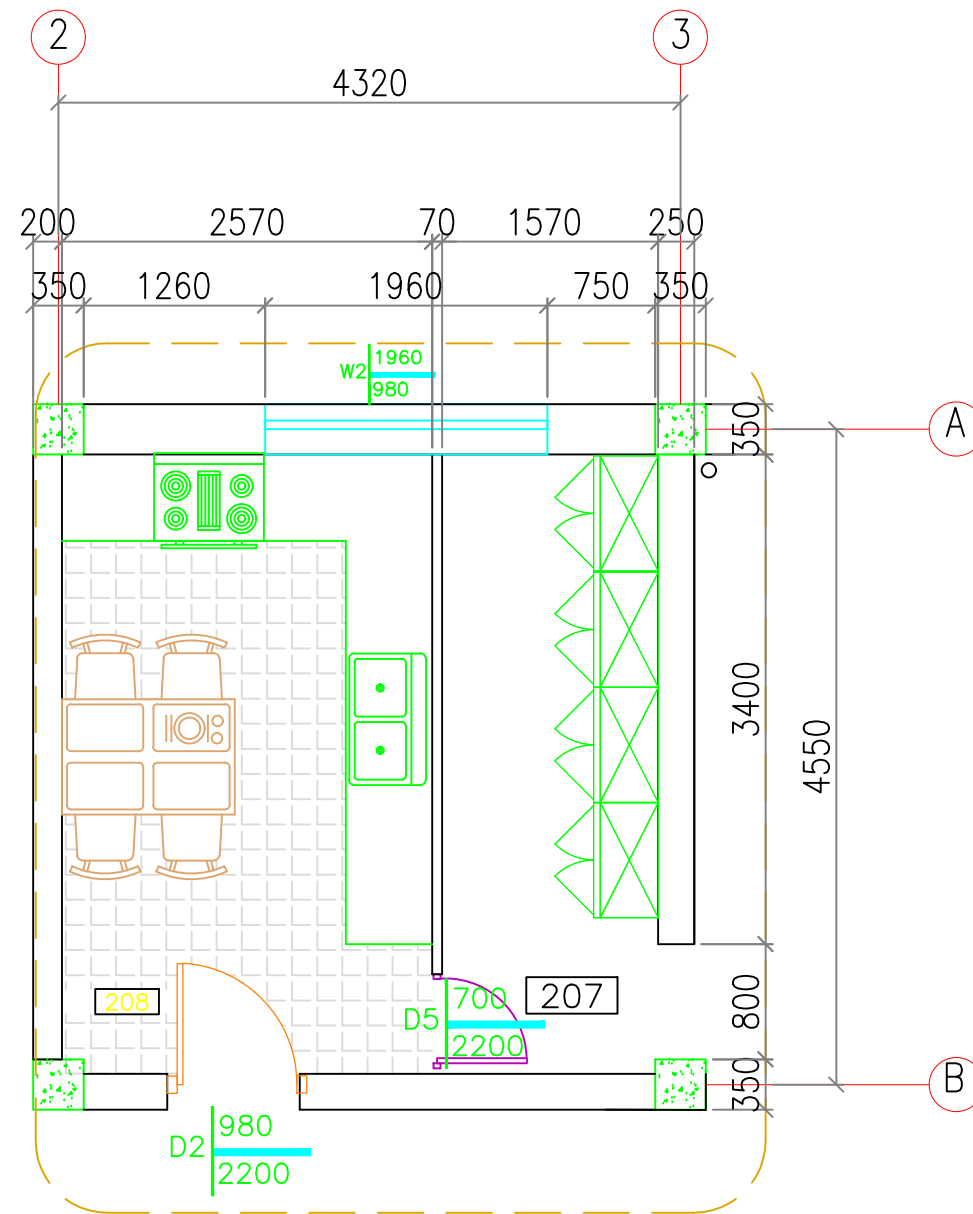
STEEL DOOR (D2)
08110-08710

1 STEEL DOOR
A-10 SCALE: 1:20

SHEET
NUMBER
A-110

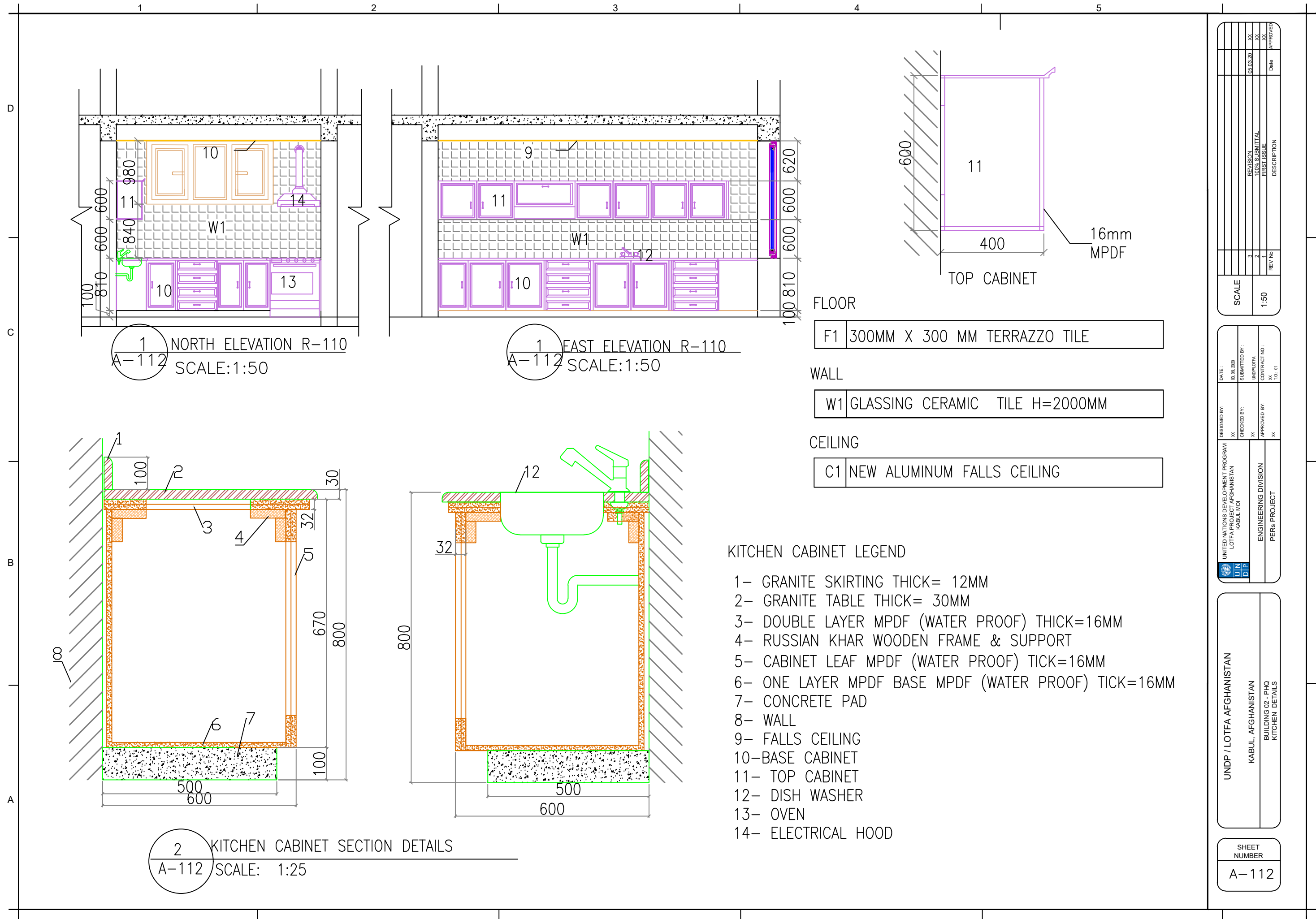


1 GROUND FLOOR ENLARGE PLAN
A-111 SCALE: 1:50



1 FIRST FLOOR ENLARGE PLAN
A-111 SCALE: 1:50

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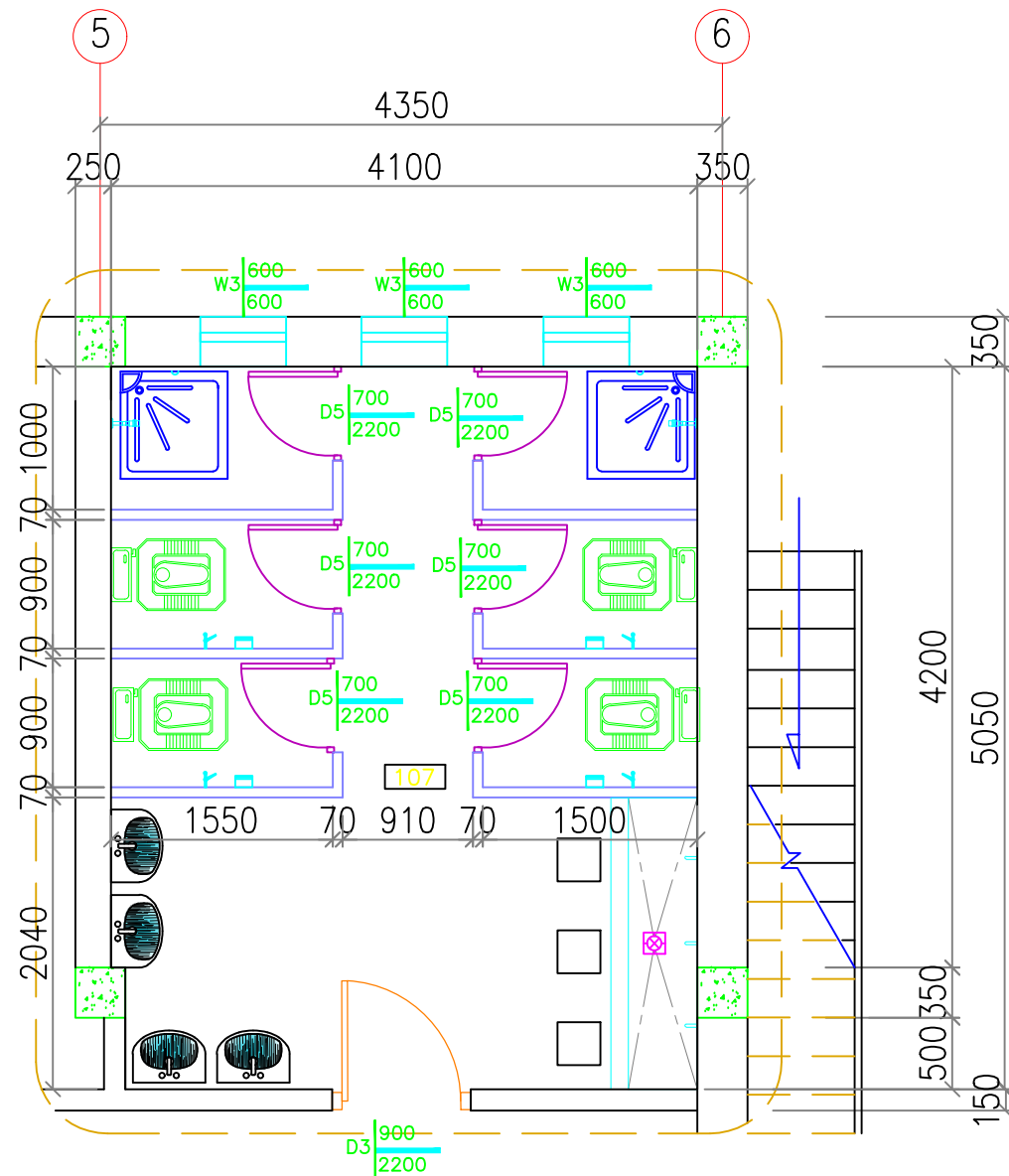


REVISION	05.03.20	XX
100% SUBMITTAL		XX
FIRST ISSUE		XX
REV No	1	XX
DATE		XX
DESCRIPTION		XX
SCALE	1:50	

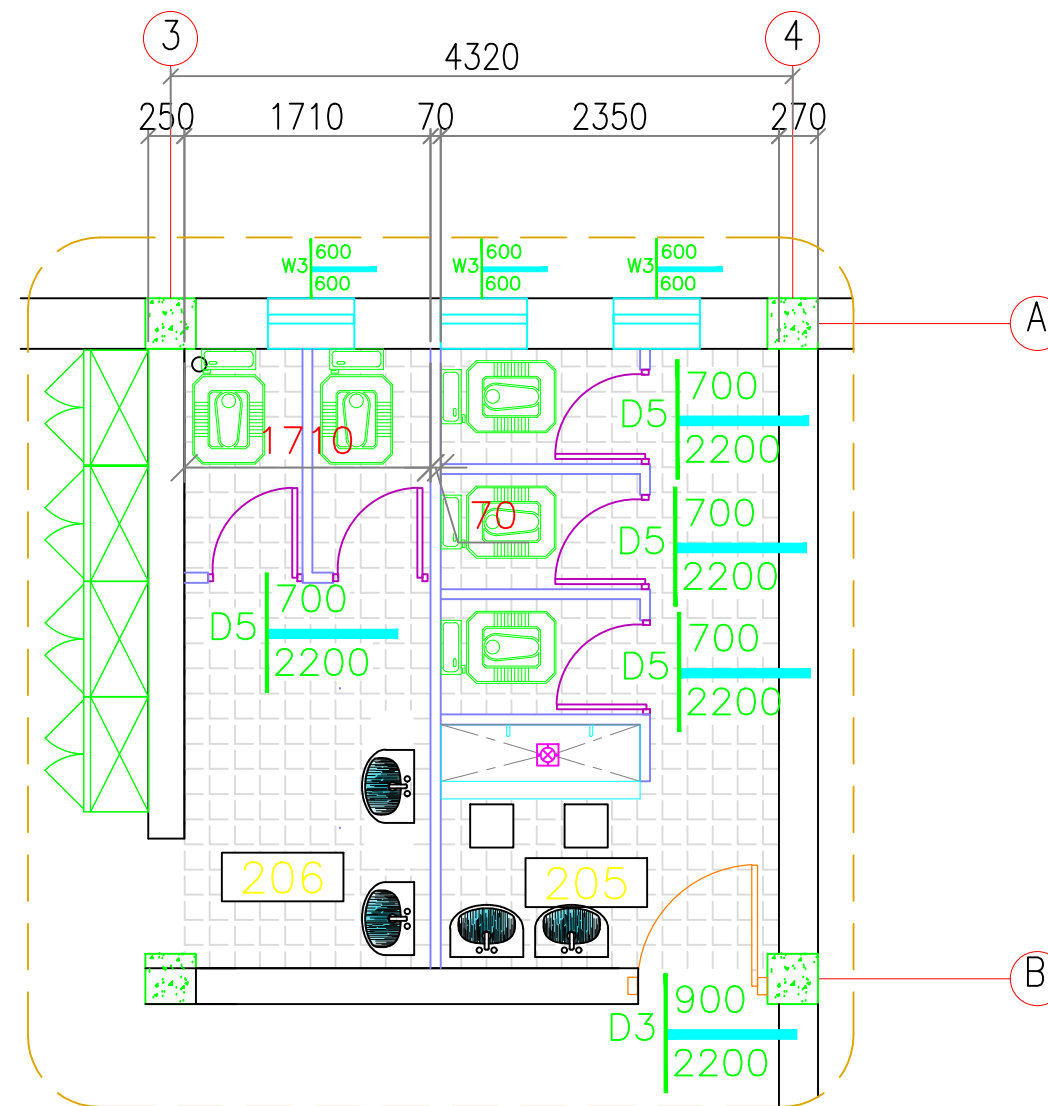
DATE:	05.03.20	SUBMITTED BY:	XX
DESIGNED BY:	XX	CHECKED BY:	XX
UNDP/LOTFA AFGHANISTAN		APPROVED BY:	XX
LOTFA KABUL MOI		CONTRACT NO:	XX
ENGINEERING DIVISION		TO: 01	
PERS PROJECT			

UNDP / LOTFA AFGHANISTAN	
KABUL, AFGHANISTAN	
BUILDING 02 - PHQ	
KITCHEN DETAILS	

SHEET NUMBER	A-112
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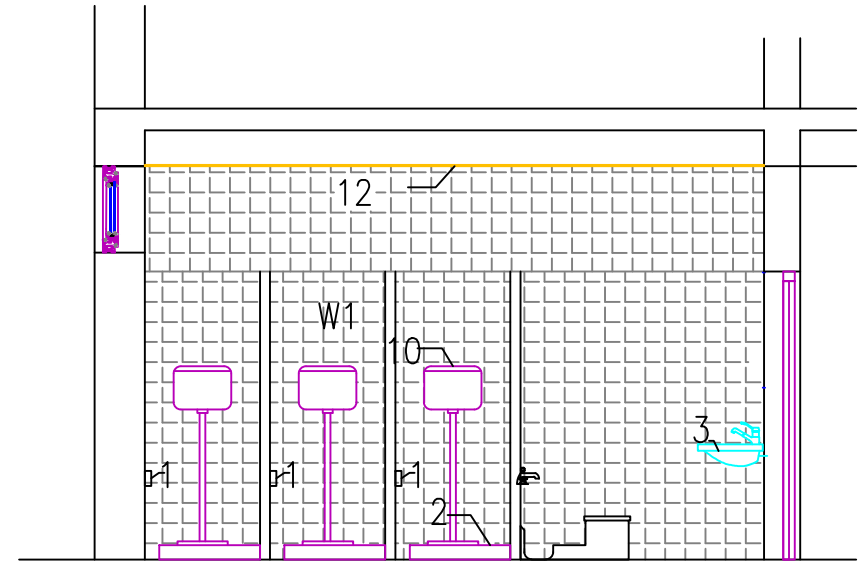


1 GROUND FLOOR ENLARGE PLAN
A-113 SCALE: 1:50

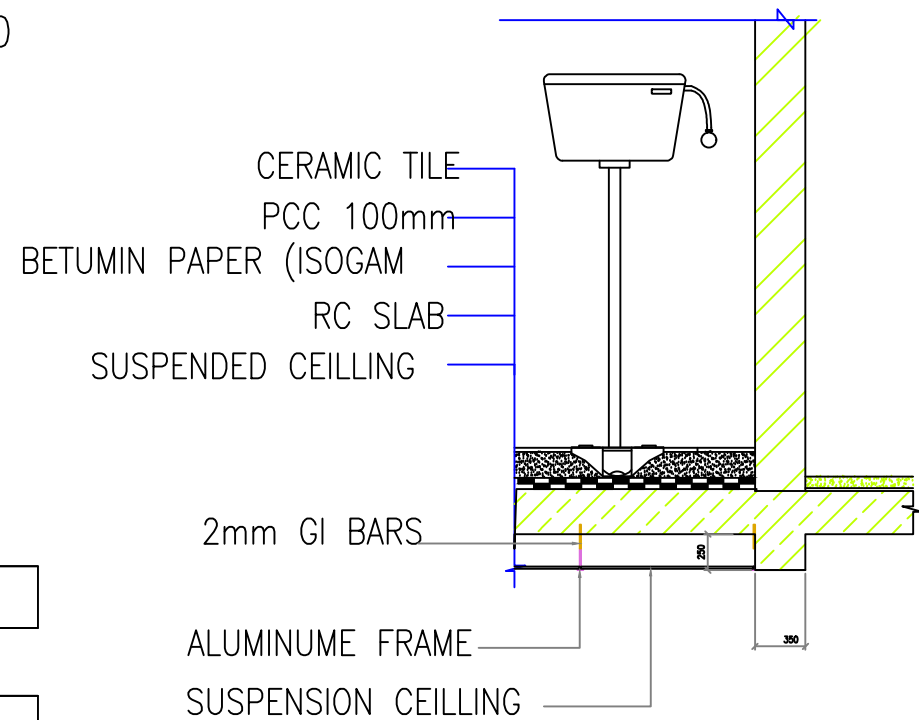


1 FIRST FLOOR ENLARGE PLAN
A-113 SCALE: 1:50

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1 ROOM#205 Male TOILET
A-114 SCALE: 1:50



DETAIL FOR FIRST FLOOR

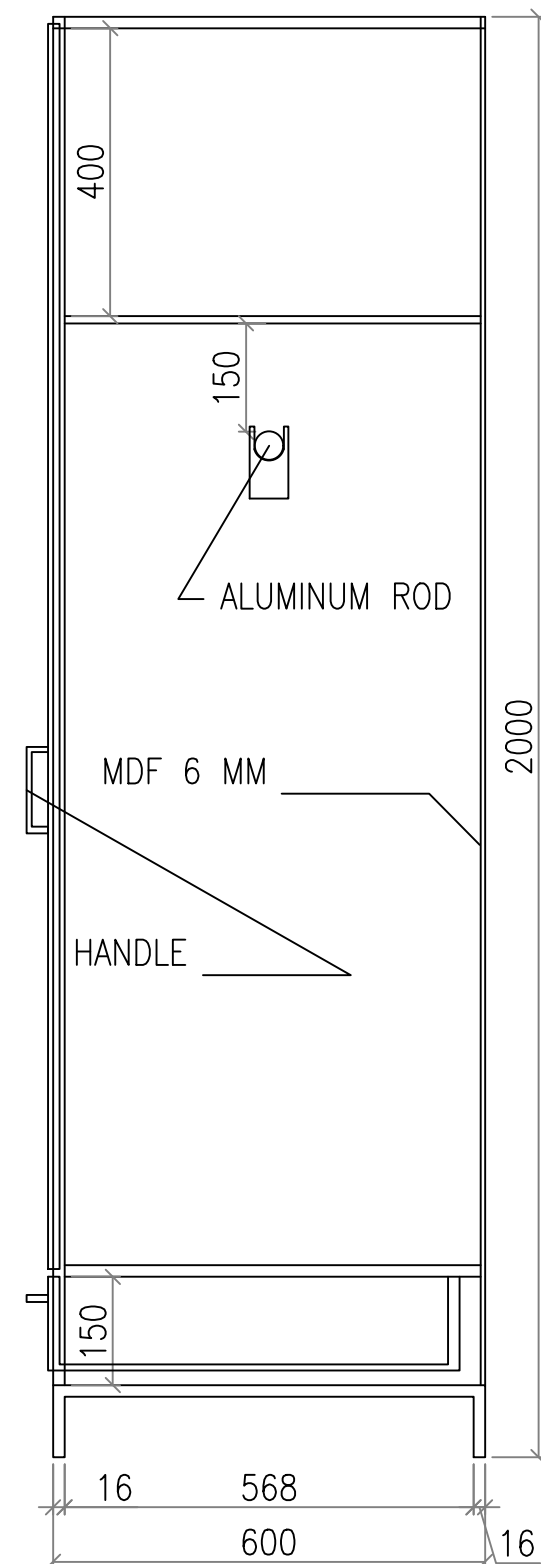
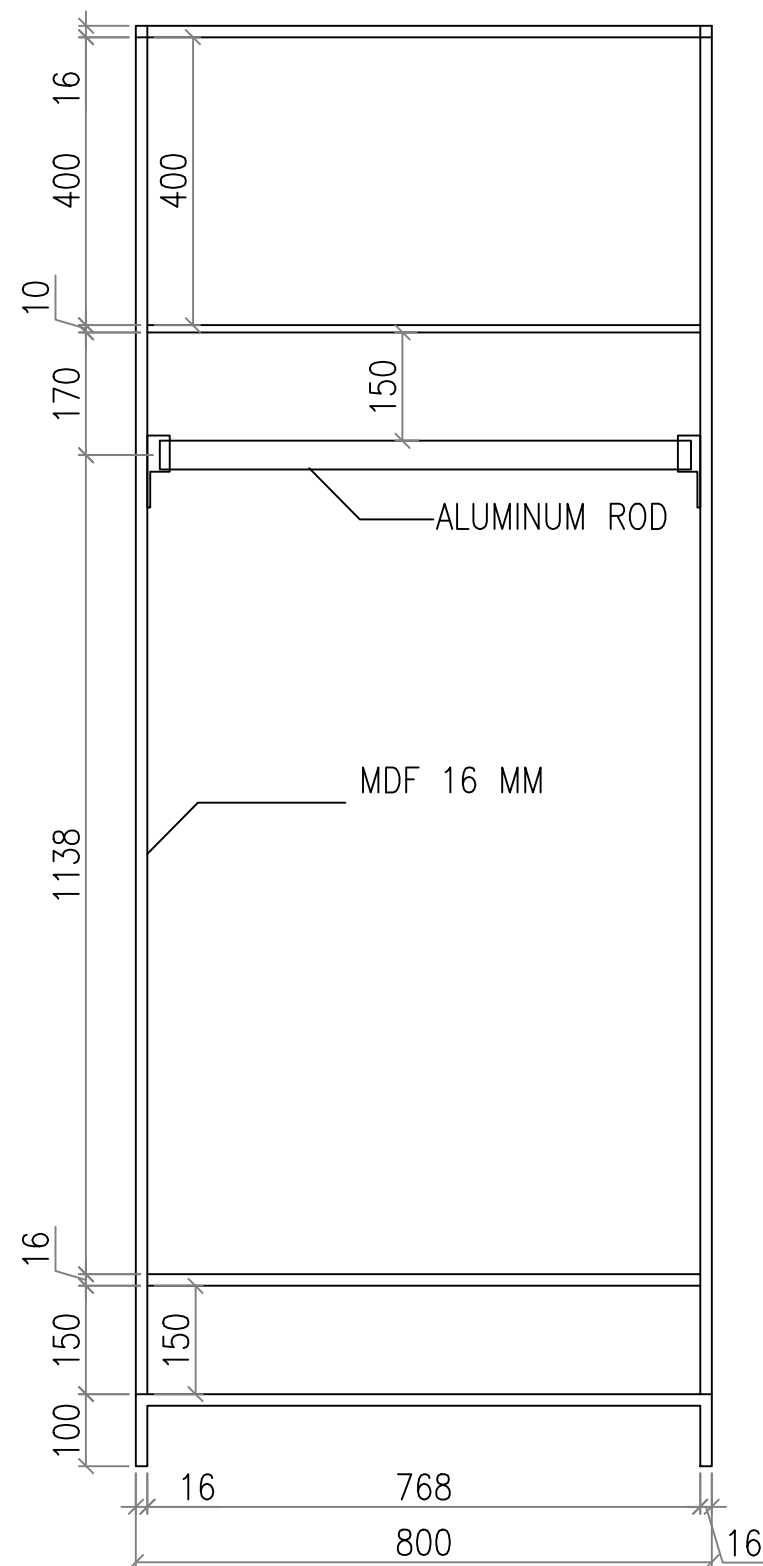
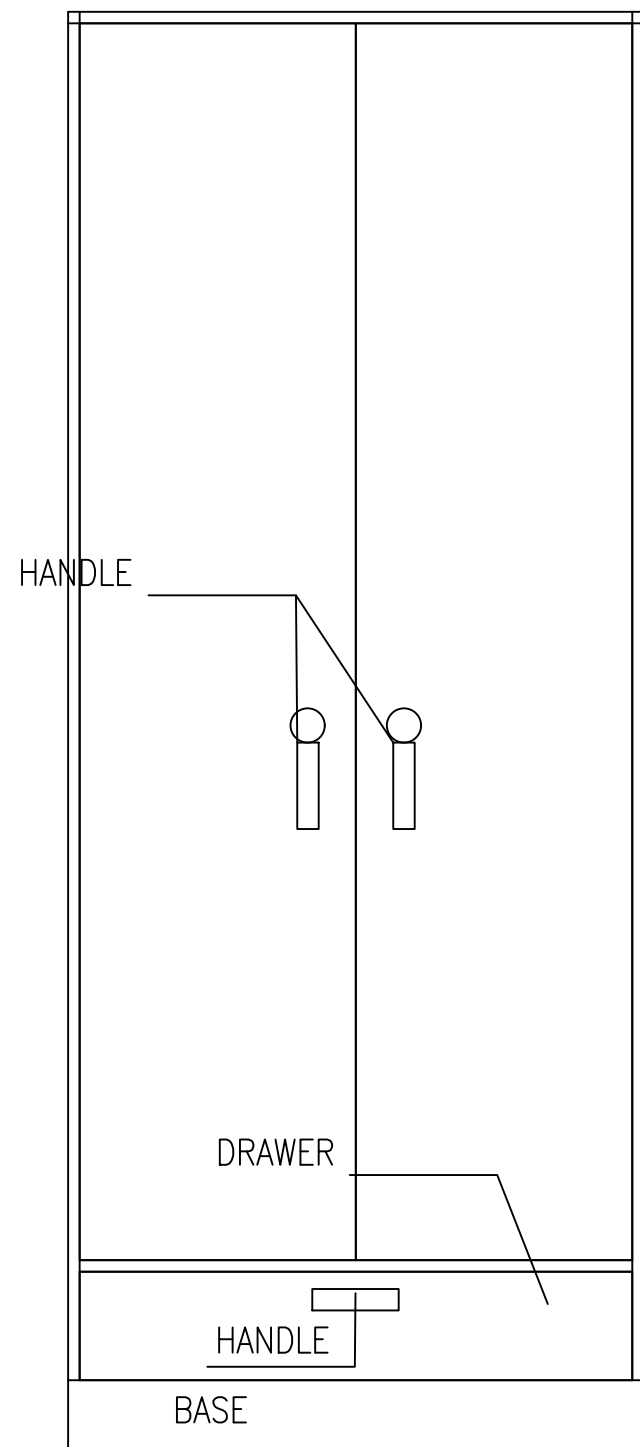
- 1- PAPER HOLDER
- 2 - ASIAN TYPE PAN WC - 10800
- 3 - PREFABRICATED SINK - 10800
- 4- MOSLEM SHOWER
- 5- SHOWER BOX - 10800
- 6 - SOAP HOLDER - 10800
- 7 - SHOWER HANGER - 10800
- 8 - CLOTHES HANGER - 10800
- 9 - CERAMIC TILES - 09310
- 10 - TOILET FLUSHING TANK.
- 11 - MIRROR - 10800
- 12 - SUSPENDED CEILING - 09545

F2	CERAMIC TILE
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W1	GLASSING CERAMIC TILE H=2000MM
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C1	NEW ALUMINUM FALLS CEILING
----	----------------------------

SHEET
NUMBER
A-114



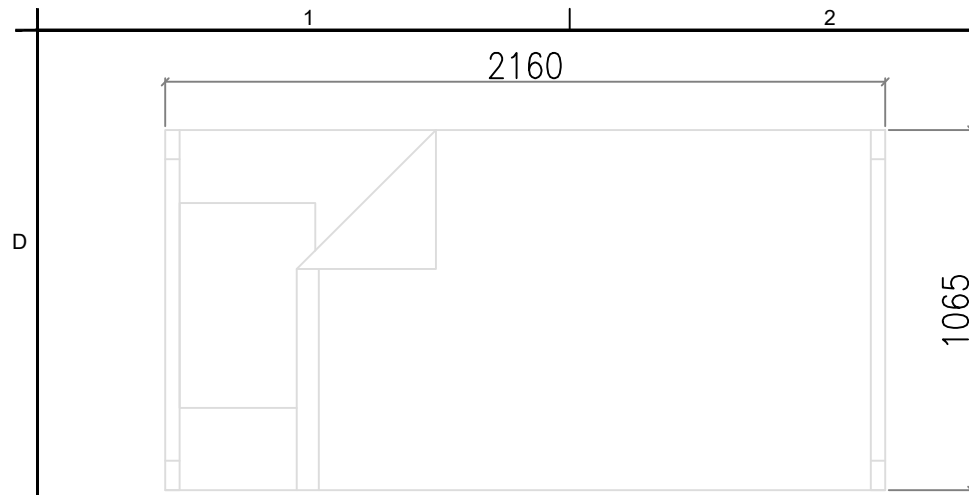
Note:

[illegible]

 UNITED NATIONS DEVELOPMENT PROGRAM LOTFPA ORGANIZATION KABUL MOI	DESIGNED BY:	DATE:
	XX	02.09.2020
	CHECKED BY:	SUBMITTED BY :
	XX	UNPLOTTA
ENGINEERING DIVISION	APPROVED BY:	CONTRACT NO.:
PFERS PROJECT	XX	XX

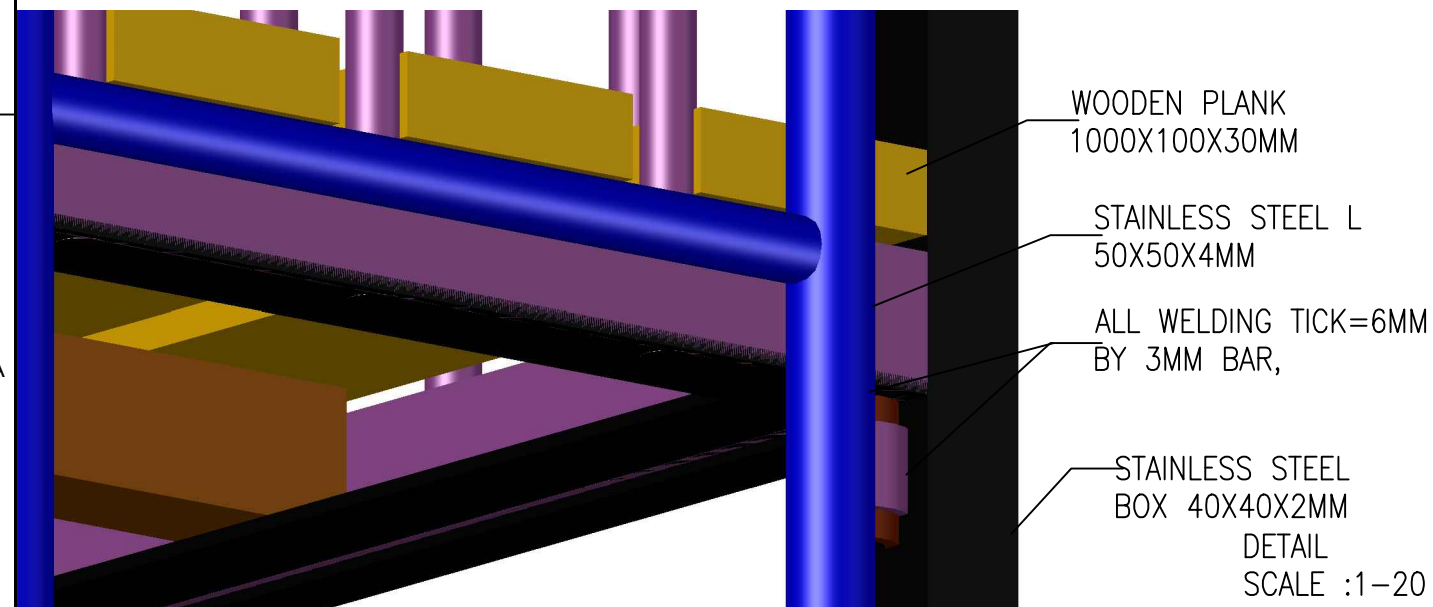
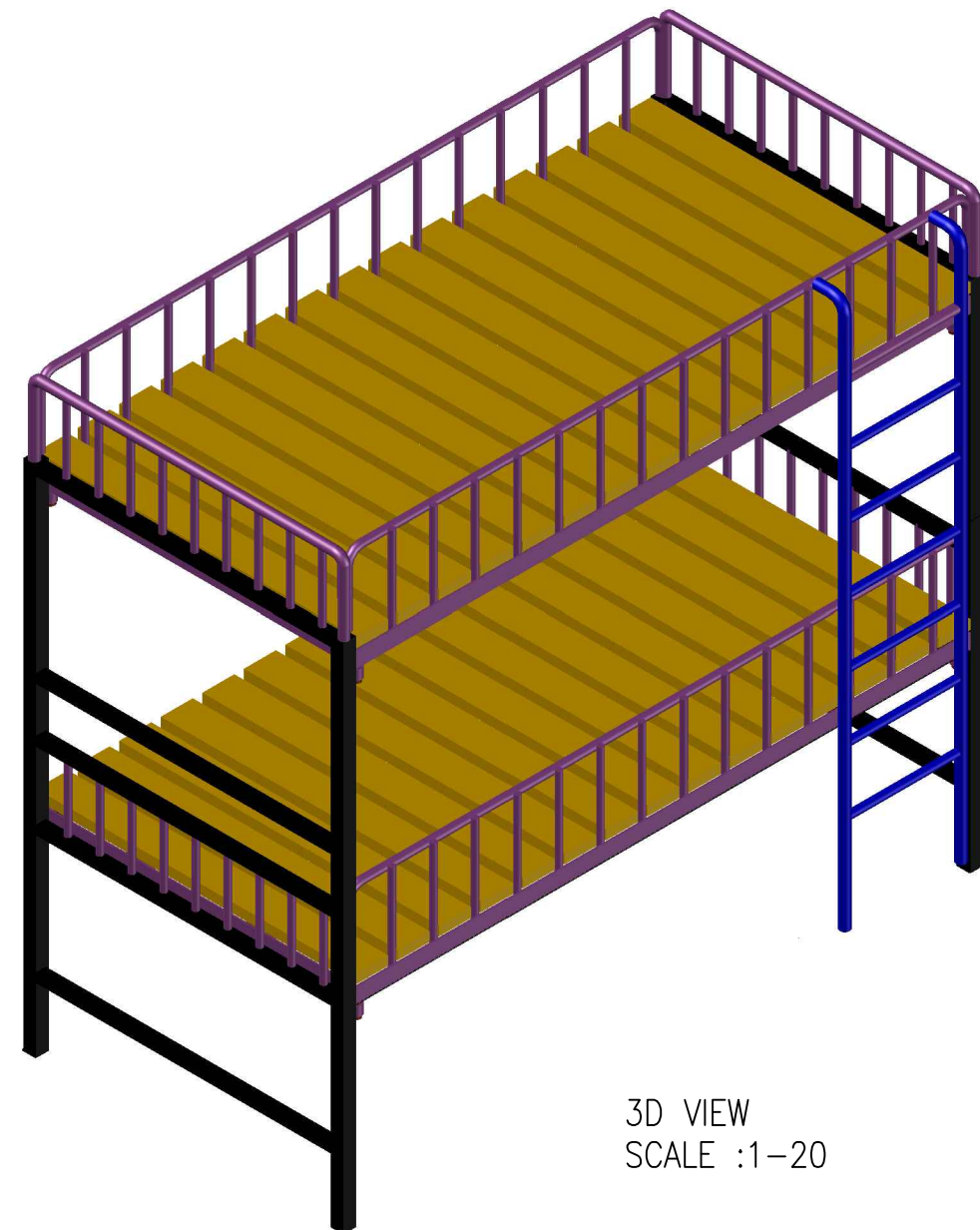
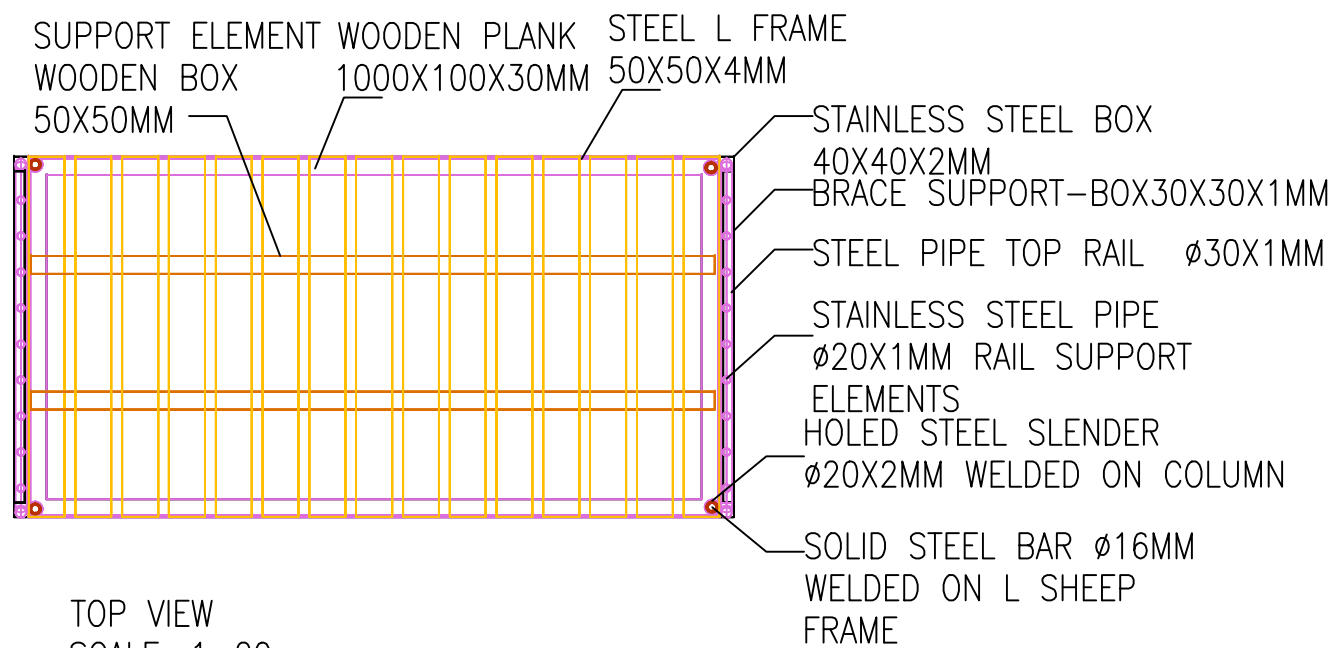
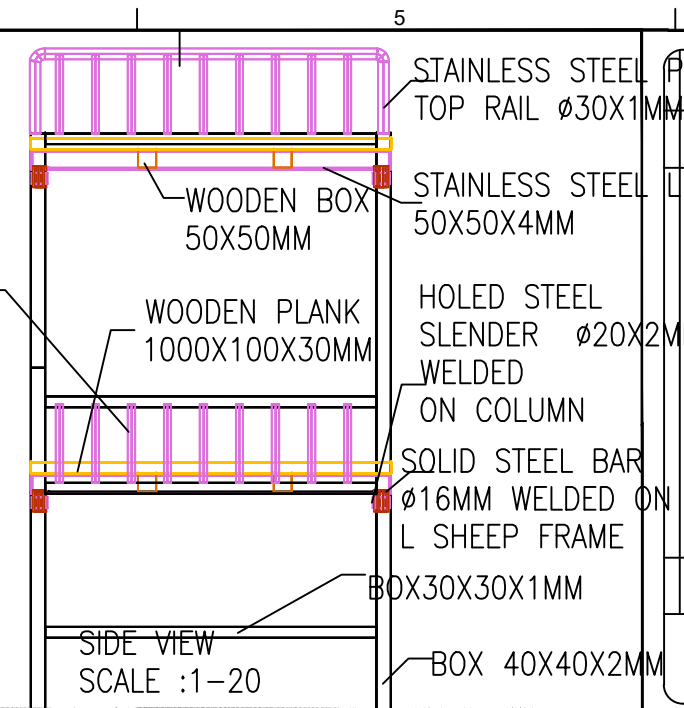
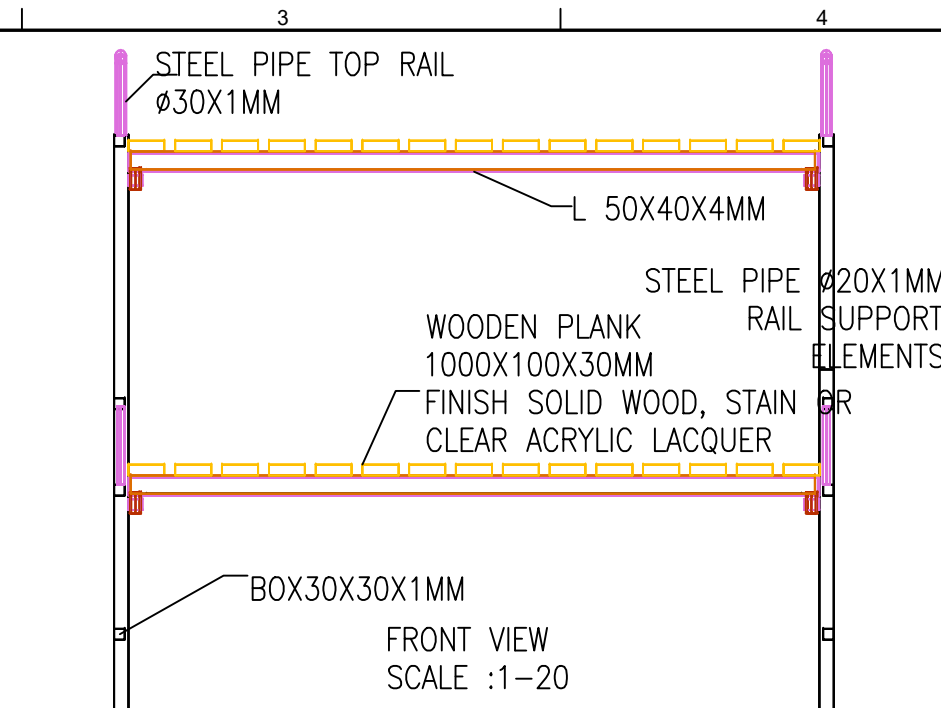
UNDP / LOTFA AFGHANISTAN	BUILDING 02 - PHO
KABUL, AFGHANISTAN	MIDE 1, 2, 3 & SECTIONS

SHEET
NUMBER
A-116



H = 940mm

1
A-118 PLAN
SCALE 1:20

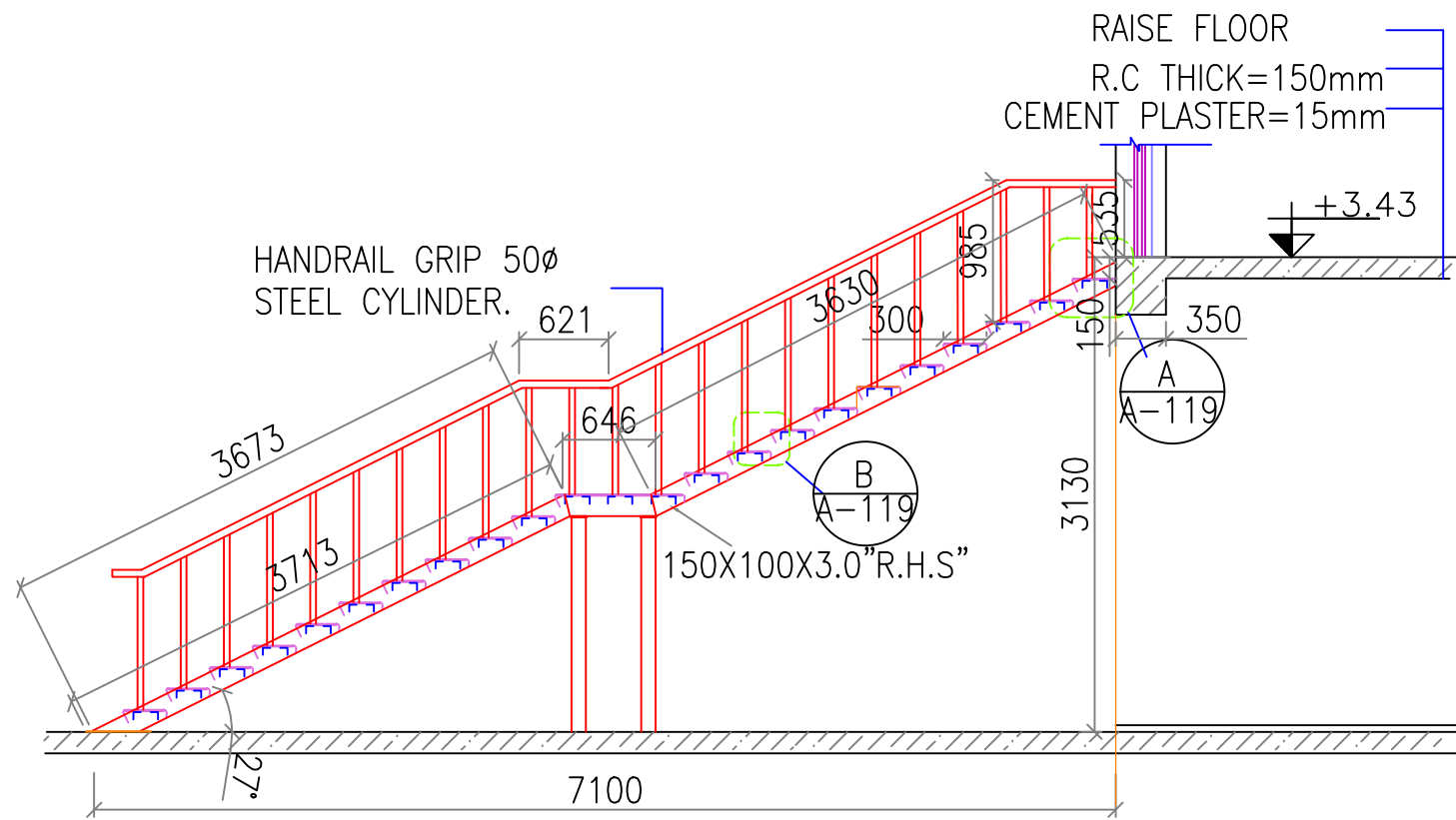


REVISION	DATE	APPROVED
1	05.03.20	XX
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3		XX
4		XX
5		XX
6		XX
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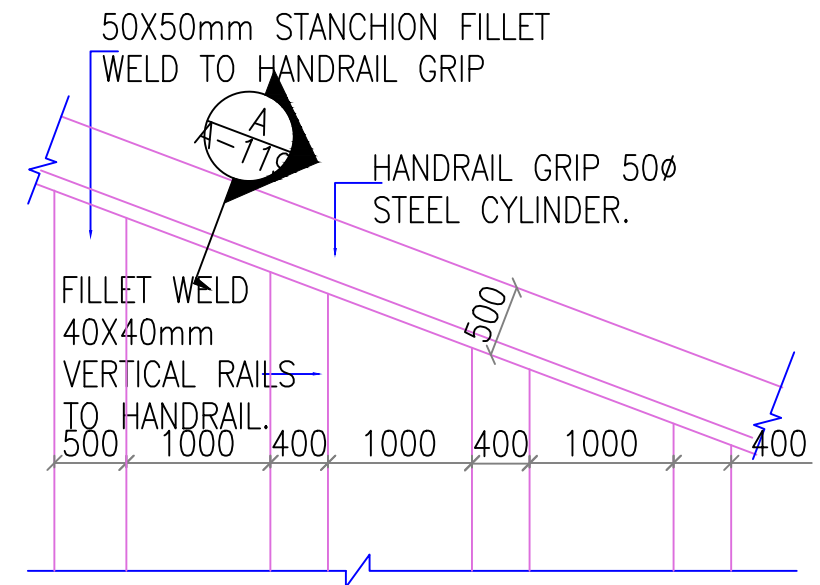
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DATE:	05.03.20	SUBMITTED BY:	XX	CONTRACT NO.:	XX
UNITED NATIONS DEVELOPMENT PROGRAM	LOTFA PROJECT AFGHANISTAN	ENGINEERING DIVISION	PERS PROJECT	TO: 01	
UNDP / LOTFA AFGHANISTAN	KABUL, AFGHANISTAN	BUILDING 02 - PHQ	DOUBLE BEDS DETAILS		

UNDP / LOTFA AFGHANISTAN	KABUL, AFGHANISTAN	BUILDING 02 - PHQ	DOUBLE BEDS DETAILS
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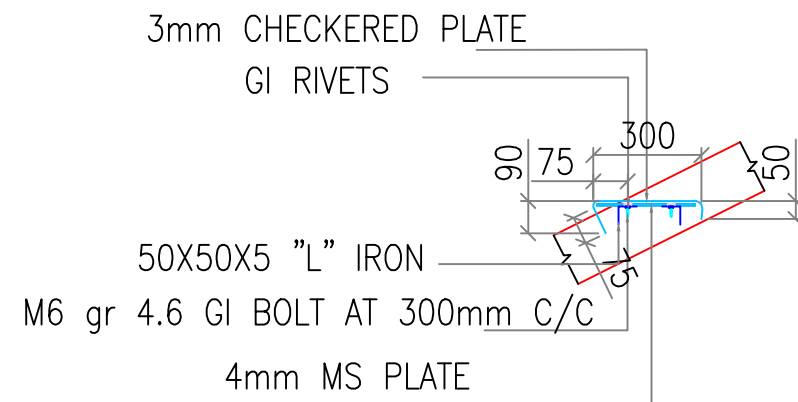
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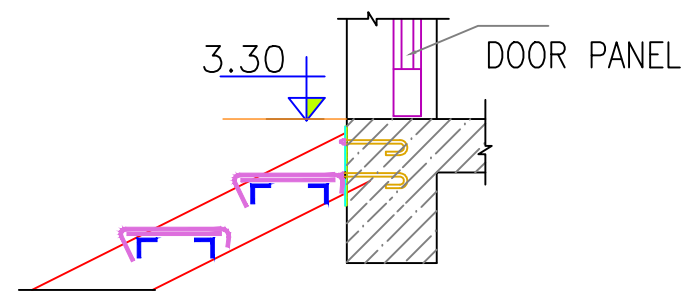
1 STAIR CASE DETAIL (A)
A-119 SCALE 1:50



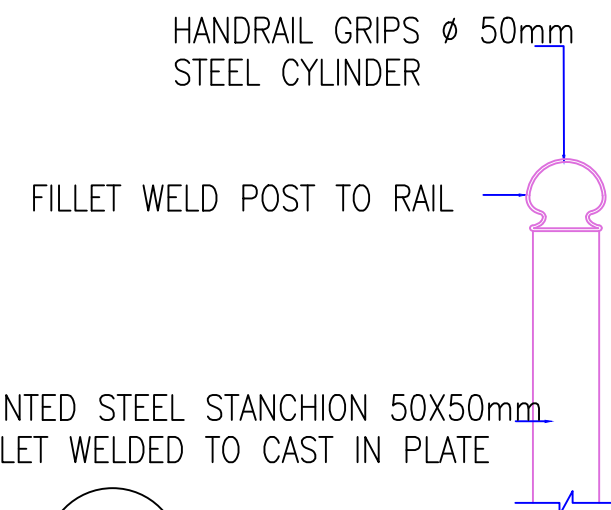
2 HAND RAIL CONNECTION TO STANCHION DETAIL
A-119 SCALE 1:5



3 DETAIL B
A-119 SCALE NTC



4 DETAIL STAIRS CONNECTION TO SLAB
A-119 SCALE NTC



5 HANDRAIL DETAIL
A-119 SCALE NTC

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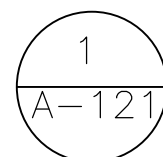
ABEN30



Light concrete panels dimensions 600*600*30 mm are coated at bottom , top and panel edges 0,5 mm galvanized steel.

PANEL PROPERTIES

Panel Dimensions	: 600x600x30mm
Top Surface	: Galvanized Steel
Bottom Surface	: Galvanized Steel
Edge Surface	: Galvanized Steel
Panel Weight	: 13,8 Kg/ Panel
Panel Core	: Light Concrete
Working Load	: 3,5 kN
Maximum Load	: 10,5kN
Fire Class	: A1
Panel Load Stretch Class	: 5A (2mm)



MEMBRANCE , DEC-TEC COOLSTEO LINE

REVISION	05.03.20	XX
100% SUBMITTAL		XX
FIRST ISSUE		XX
REV No	Date	APPROVED
3		
2		
1		
SCALE	NTC	

DESIGNED BY:	DATE:	SUBMITTED BY:
XX	05.03.20	XX
CHECKED BY:	UNDP/LOTA	
XX	AFGHANISTAN	
APPROVED BY:	CONTRACT NO:	
XX	XX	
TO: 01		
UNITED NATIONS DEVELOPMENT PROGRAM	ENGINEERING DIVISION	PERS PROJECT
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KABUL MOI		
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UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
RAISE FLOOR DETAILS

SHEET NUMBER
A-120

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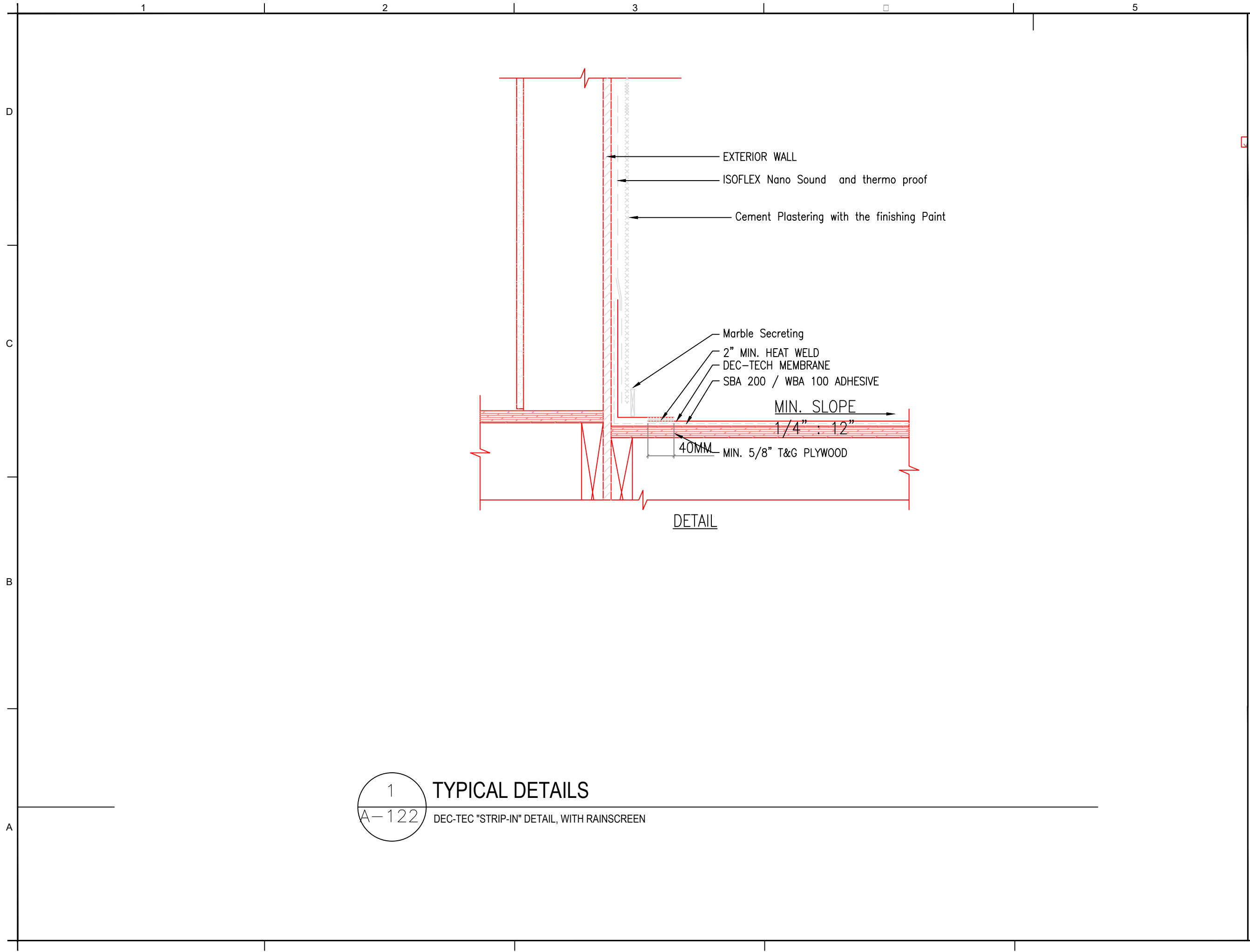
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	XX	UNDILOTA
	APPROVED BY:	CONTRACT NO.:
	XX	XX 11-01

UNDP / LOTFA AFGHANISTAN

KABUL, AFGHANISTAN

BUILDING 02 - PHO
RAISE FLOOR DETAILS



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A-122

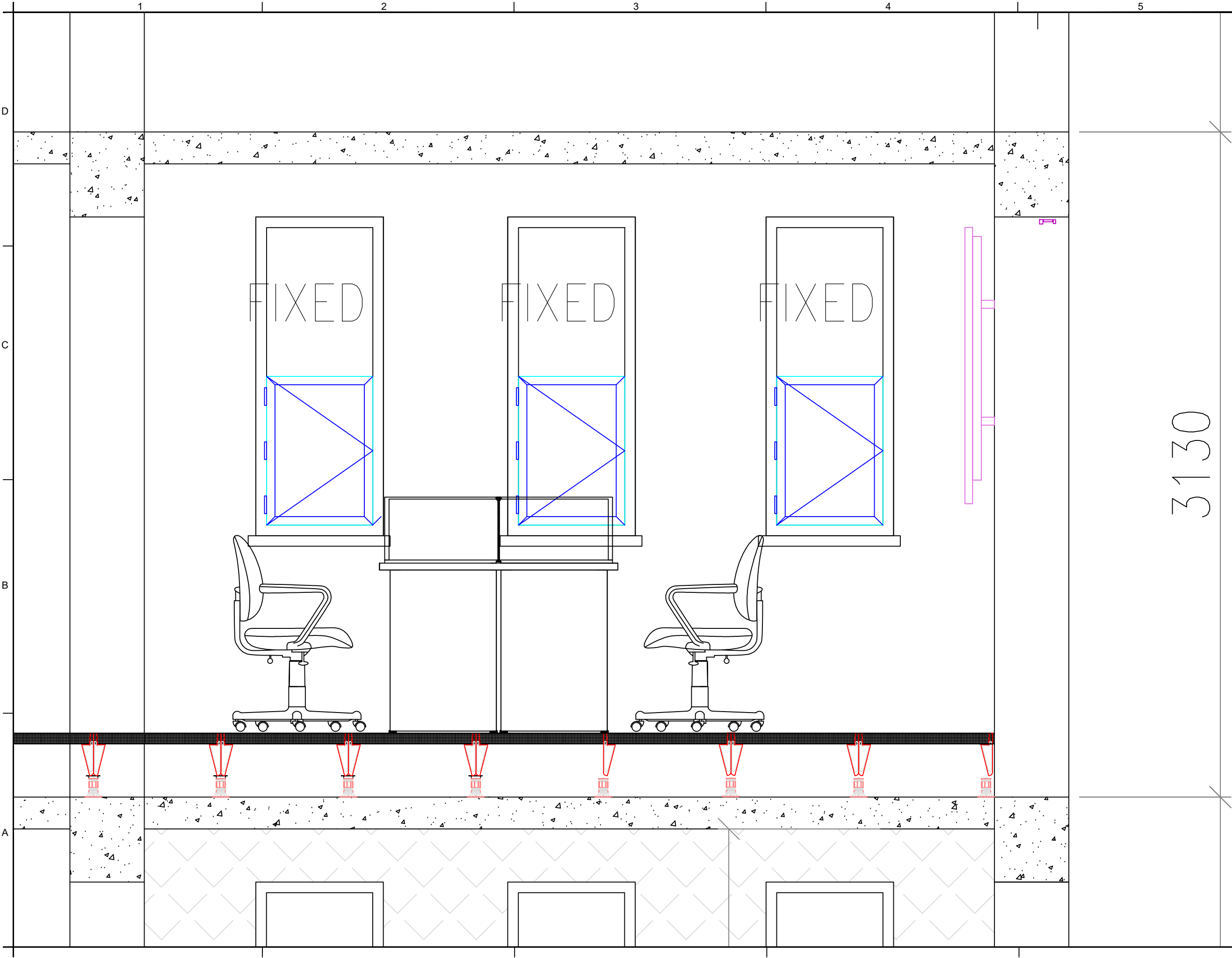
TYPICAL DETAILS
DEC-TEC "STRIP-IN" DETAIL, WITH RAINSCREEN

SCALE	
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2	100% SUBMITTAL
1	FIRST ISSUE
REV/No	DESCRIPTION
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XX	UNDP/LOTFA
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UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	
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UNDP / LOTFA AFGHANISTAN KABUL, AFGHANISTAN BUILDING 02 - PH- WALL ACOUSTIC DETAILS
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SHEET NUMBER
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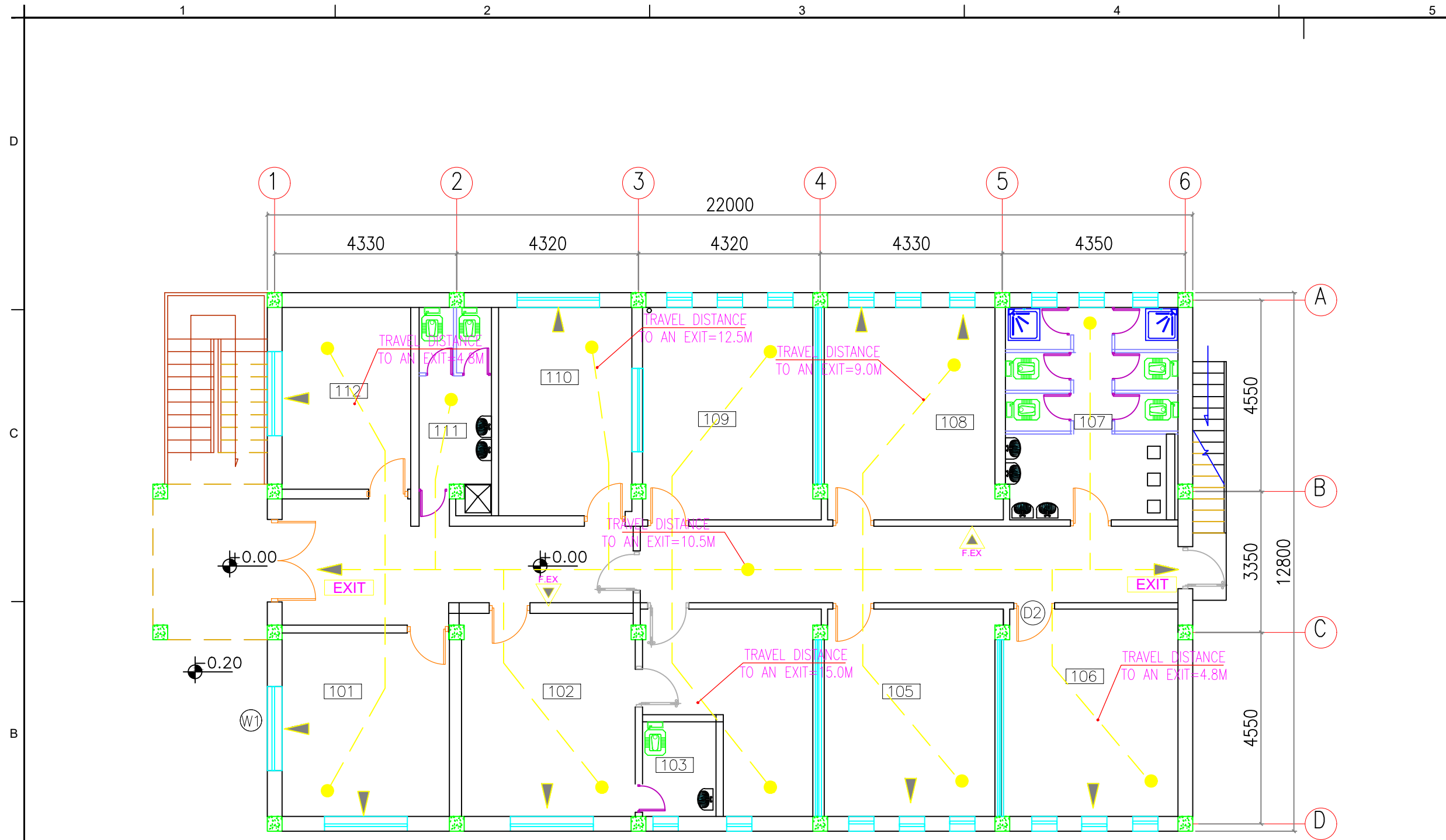


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KABUL MOI		SUBMITTED BY:	
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TO: 01		CONTRACT NO.:	
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UNDP / LOTFA AFGHANISTAN	
KABUL, AFGHANISTAN	
BUILDING 02 - PHQ	
OFFICES FURNITURE ENLARGE PLAN	

SHEET	
NUMBER	
A-123	



LEGEND:

1- COMMON PATH OF TRAVEL

2- 4KG-ABC TYPE FIRE EXTINGUISHER-
MOUNTING HEIGHT 1067MM
ABOVE FINISHED FLOOR



3- EXIT SIGN LOCATION



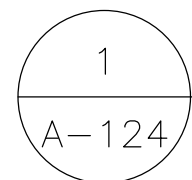
4- DENOTES STARTING POINT
FOR TRAVEL DISTANCE



5- DIRECTION OF TRAVEL



6- OPERABLE CASEMENT WINDOW
USED AS SECONDARY MEANS
OF EGRESS IN SLEEPING AREA



PROPOSE GROUND FLOOR PLAN

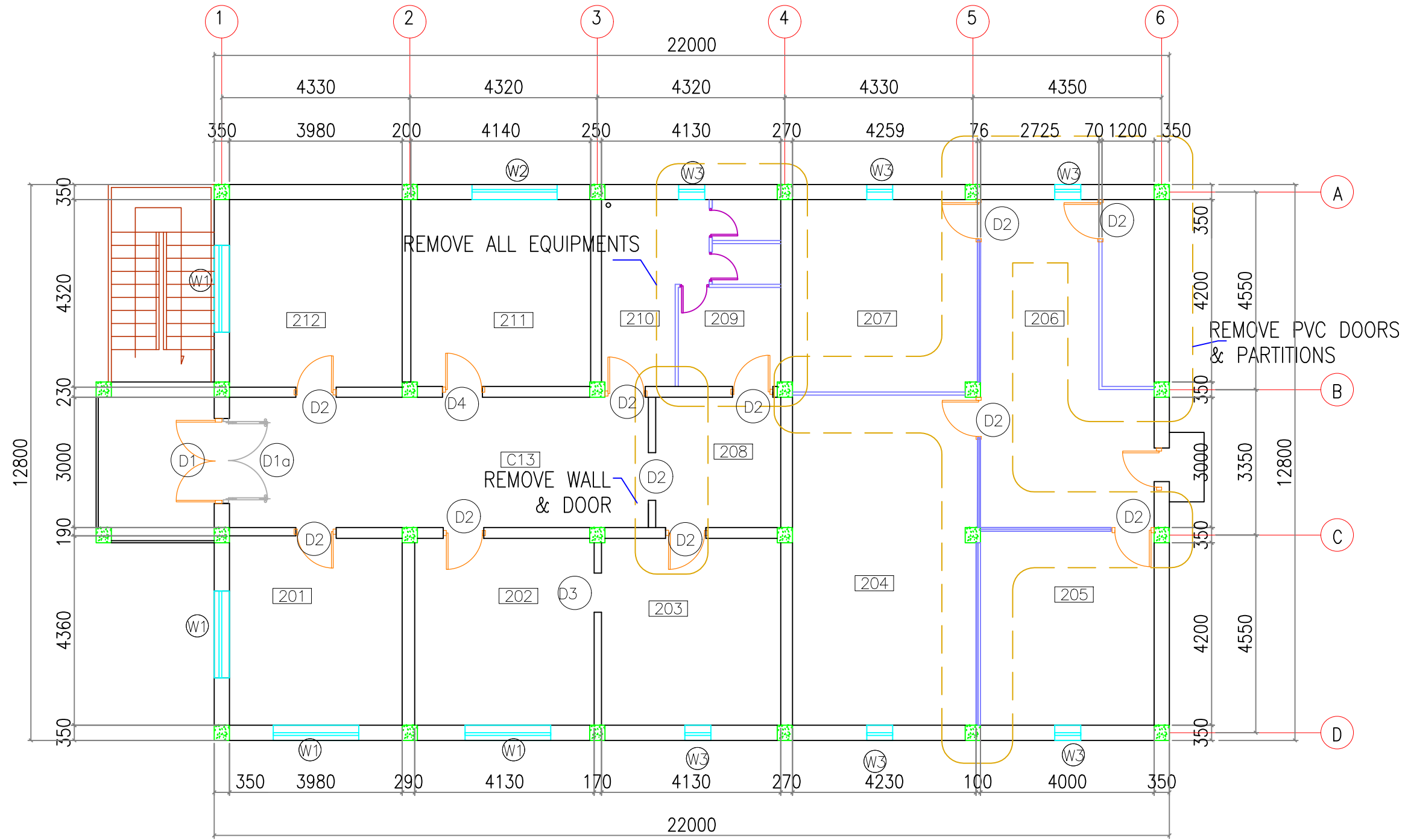
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DESIGNED BY:	DATE:	SUBMITTED BY:
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CHECKED BY:	UNPROLOTA	CONTRACT NO.:
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APPROVED BY:	XX	TO: 01
XX	XX	XX
UNITED NATIONS DEVELOPMENT PROGRAM	ENGINEERING DIVISION	PERS PROJECT
LOTFA PROJECT AFGHANISTAN		
LOTFA KABUL MOI		
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UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
SECURITY OPERATION FACILITY & LIFE SAFETY PLAN

SHEET NUMBER
A-124



1 EXISTING FIRSTD FLOOR PLAN
A-102 SCALE: 1:100

REVISION	05.03.20	XX
DESIGN SUBMITTAL	XX	XX
FIRST ISSUE	XX	XX
DESCRIPTION	DATE	APPROVED
SCALE	1:100	REV No

DESIGNED BY:	XX	CHECKED BY:	XX	APPROVED BY:	XX
DATE:	05.03.20	SUBMITTED BY:	XX	CONTRACT NO.:	XX
UNITED NATIONS DEVELOPMENT PROGRAM	LOTFA PROJECT AFGHANISTAN	ENGINEERING DIVISION	PERS PROJECT	TO: 01	

UNDP / LOTFA AFGHANISTAN	KABUL, AFGHANISTAN
BUILDING 02 - PHQ	EXISTING FIRST FLOOR PLAN

SHEET NUMBER
A-103