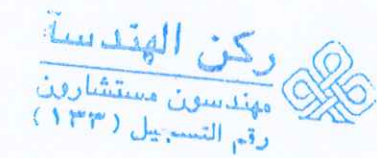
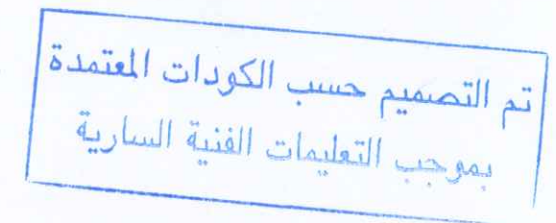


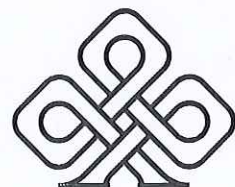


PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

BLOOD BANK AND VARIOUS CLINICS
RENOVATION
& DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES



Prepared By :



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LIST OF DRAWING

	ARCHITECTURAL DRAWINGS
SHEET No.	COVER DRAWING TITEL
A000	INDEX
A001	AREA
A002	GROUND FLOOR DIMENSION PLAN AS BUILT
A003	DEMOLISH GROUND FLOOR PLAN
A101	DIMENSION GROUND FLOOR PLAN
A102	TOP OF ROOF FLOOR PLAN
A201	ELEVATIONS
A251	SECTIONS&WALL SECTION
A401	FURNITURE GROUND FLOOR PLAN
A451	TAG GROUND FLOOR PLAN
A452	DOOR AND WINDOW SCHEDULES &FINISHES SCHEDULES &GENERAL DETAILS
A601	CEILING GROUND FLOOR PLAN
A701	TOILETS ENLARGEMENT &COUNTER DETAILS
A901	DETAILS

	MECHANICAL DRAWINGS
SHEET No.	DRAWING TITEL
M-000	LEGENDS & SYMBOLS
M-101	DRAINAGE LAYOUT / GROUND FLOOR
M-201	WATER LAYOUT / GROUND FLOOR
M-401	HVAC LAYOUT / GROUND FLOOR
M-402	HVAC LAYOUT / TOP OF ROOF
M-501	FIRE FIGHTING LAYOUT / GROUND FLOOR

	ELECTRICAL DRAWINGS
SHEET No.	DRAWING TITEL
E-100	LEGEND
E-200	LIGHTING SYSTEM GROUND FLOOR
E-300	POWER SYSTEM GROUND FLOOR
E-400	HVAC SYSTEM GROUND FLOOR
E-500	ELECTRICAL PANELS
E-501	ELECTRICAL PANELS
E-600	HAKEEM DATA SYSTEM GROUND FLOOR
E-601	DATA&TELEPHONE SYSTEM GROUND FLOOR
E-602	DATA&TELEPHONE RISER
E-700	CCTV SYSTEM GROUND FLOOR
E-701	CCTV RISER
E-800	FIRE ALARM SYSTEM GROUND FLOOR
E-801	FIRE ALARM RISER

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

INDEX

Prepared By :



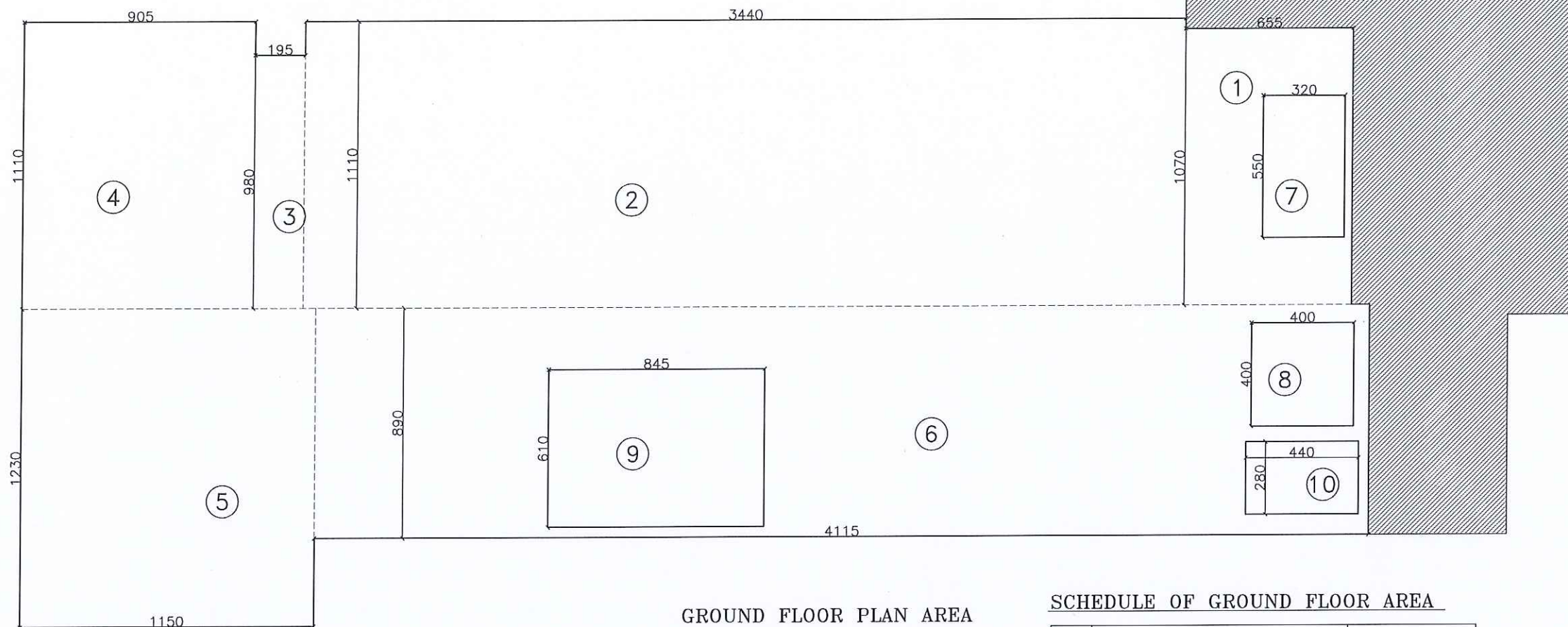
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DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

SCALE: 1/100 SHEET SIZE: A1

FLY NO.	REVISION NO.	REVISION
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GROUND FLOOR PLAN AREA

Scale: 1/200

SCHEDULE OF GROUND FLOOR AREA

no.	Calculation	Area
1.00	6.55 X 10.70	+70.09
2.00	34.40 X 11.10	+381.84
3.00	1.95 X 9.80	+19.11
4.00	9.05 X 11.10	+100.46
5.00	11.50 X 12.30	+141.45
6.00	41.15 X 8.90	+366.23
7.00	3.20 X 5.50	-17.60
8.00	4.00 X 4.00	-16.00
9.00	8.45 X 6.10	-51.55
10.00	4.40 X 2.80	-12.32
	Total Area	+981.71

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
موجوب التعليمات الفنية المعمارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

AREAS

Prepared By :

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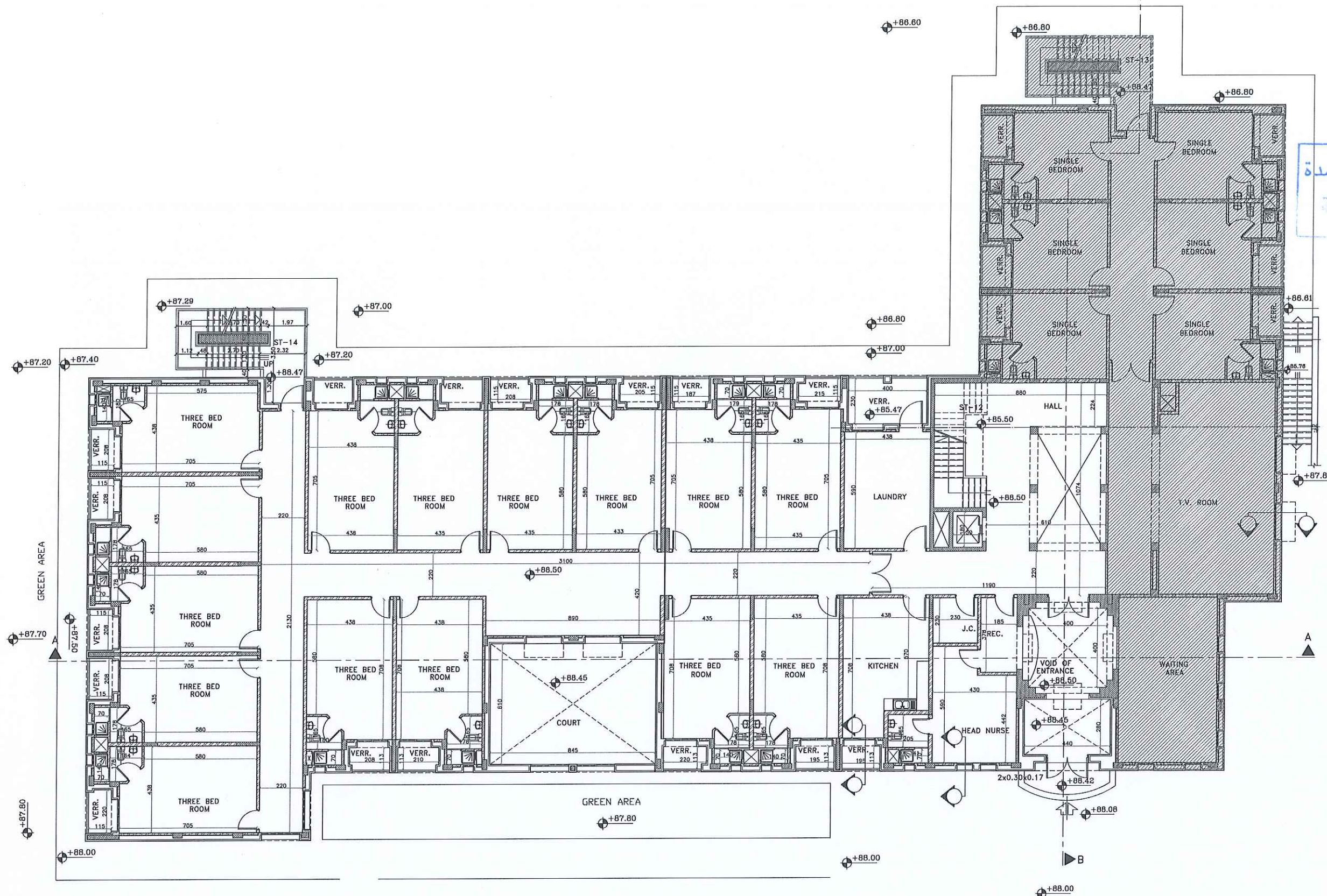
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CHECKED BY R.F.S 196
DRAWN BY Z.M.Z —

SCALE: 1/100 SHEET SIZE: A1

PLOT NO. BAND NO. CAD FILE
SER._DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 342-3-A001 A

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مبنى حسب التقنيات الآتية السارية



REV. NO.	DATE	DESCRIPTION
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PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :	
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BLOOD BANK AND VARIOUS CLINICS RENOVATION

DRAWING NAME :

GROUND FLOOR
DIMENSION PLAN
AS BUILT

Prepared By :



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DESIGNED BY	F.I.A	6460
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CHECKED BY	R.F.S	196
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DRAWN BY	Z.M.Z	—
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SCALE:	SHEET SIZE: A1
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ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.

MAR.2024	342-3	342-3-A002	A
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AS BUILT DRAWING (GROUND FLOOR PLAN) 1:100

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

DIMENSION GROUND
FLOOR PLAN

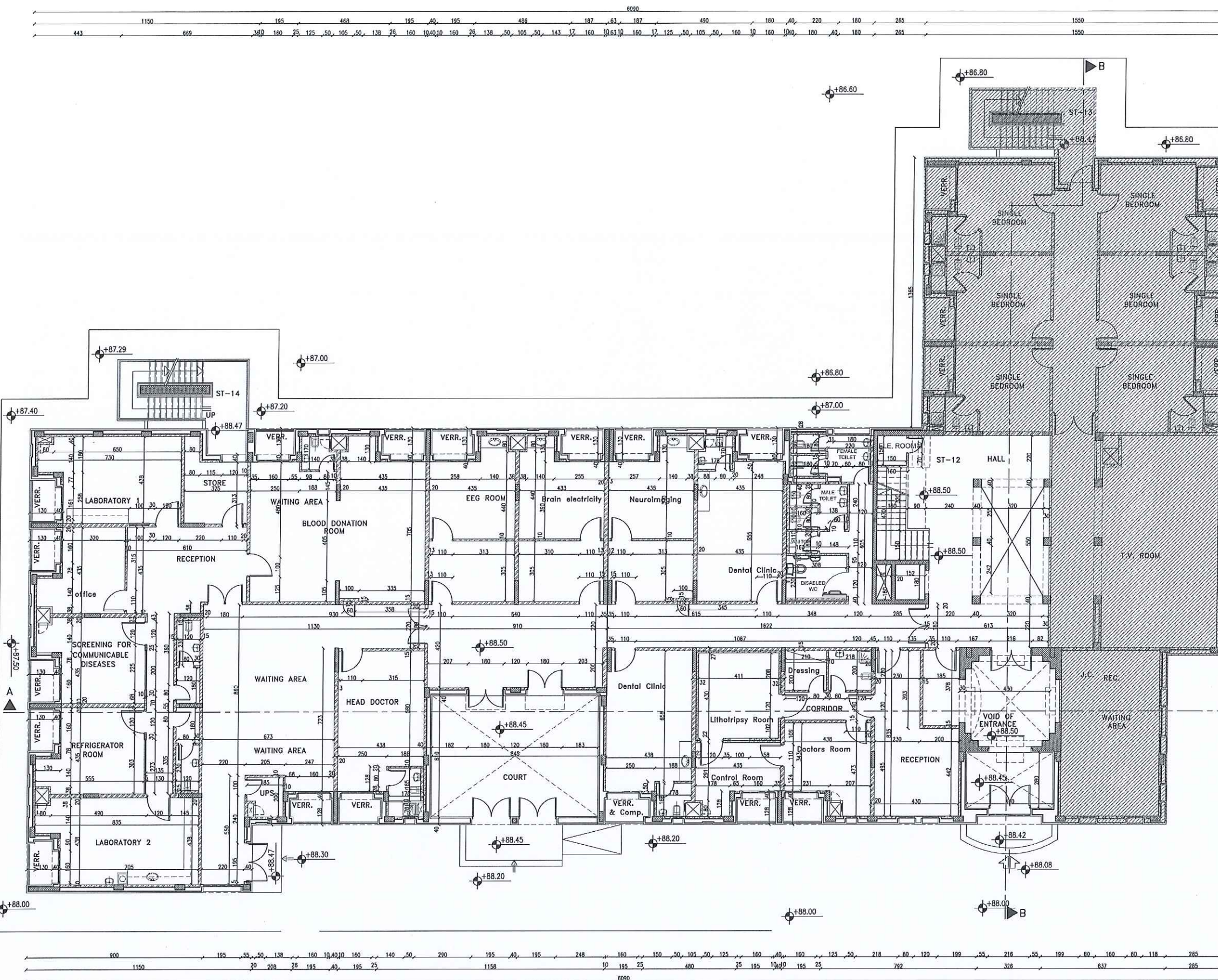
Prepared By :

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DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

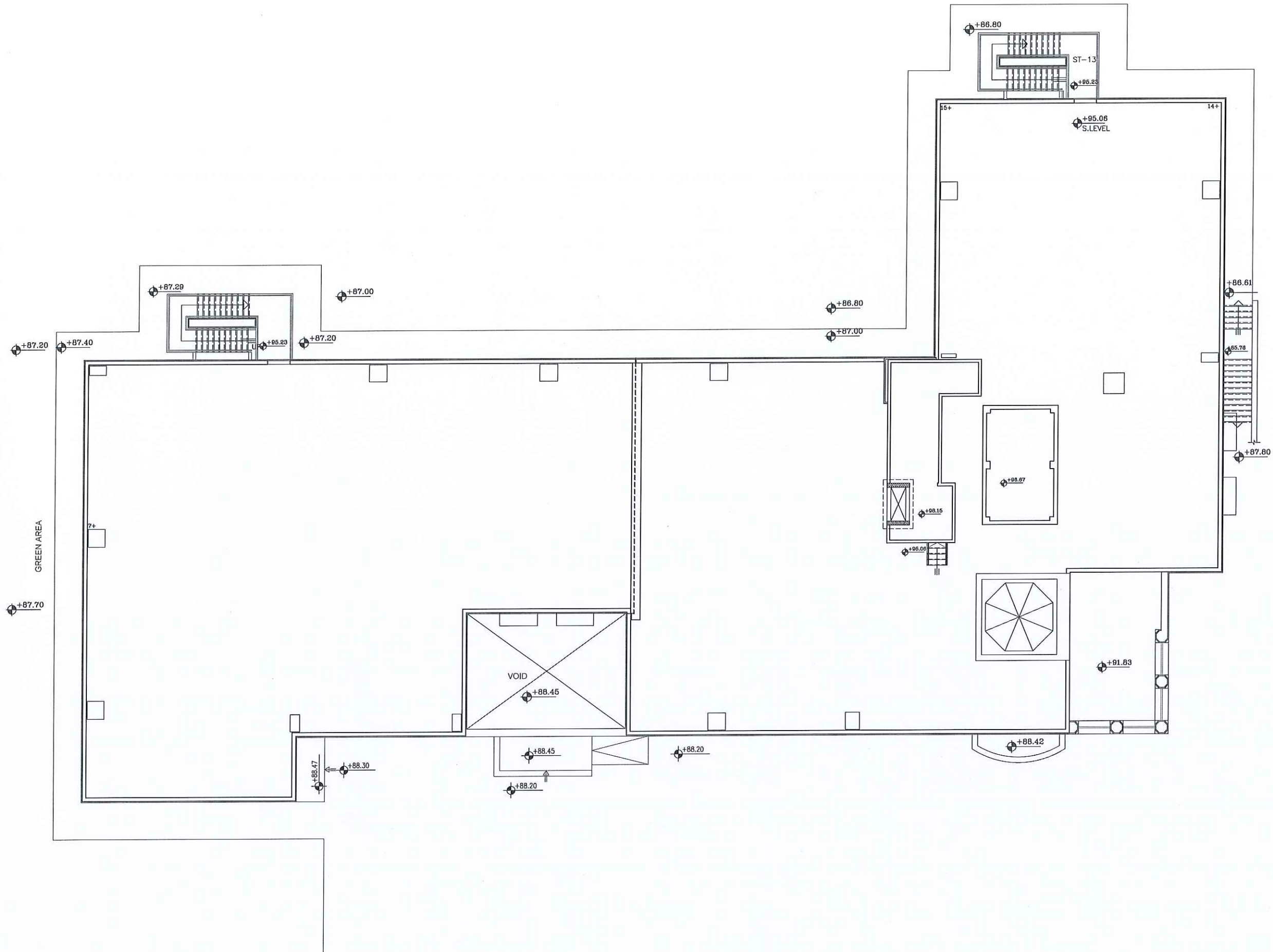
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MAR.2024	342-3	342-3-A101
		REV.
		A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



REV. NO.	DATE	DESCRIPTION



PROJECT OWNER :

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

TOP OF ROOF FLOOR
PLAN

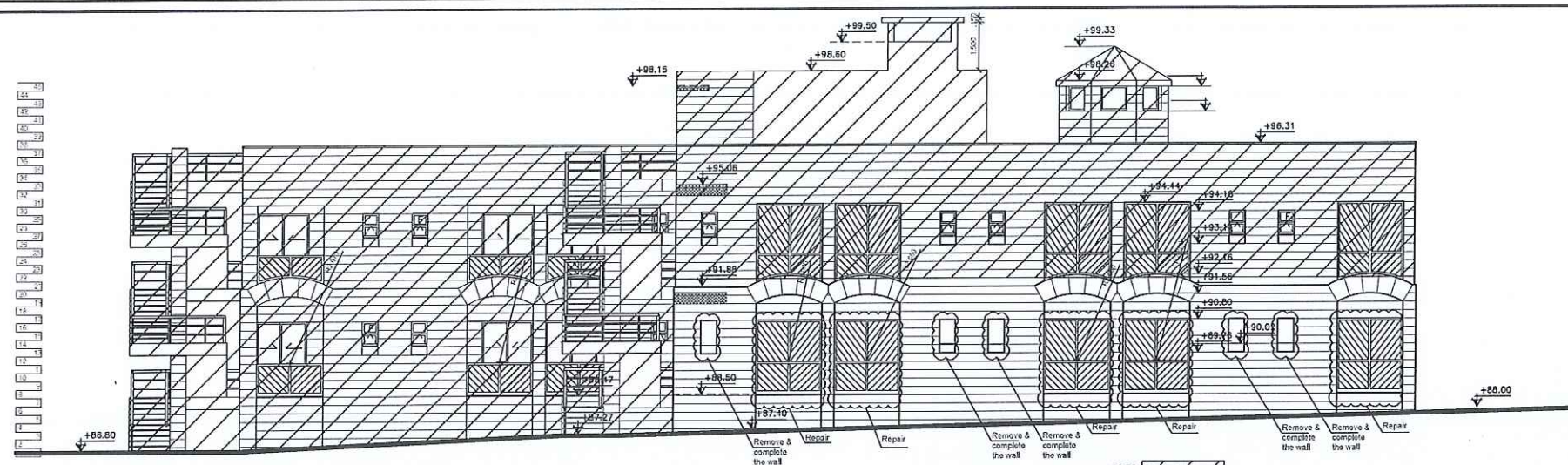
Prepared By :
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CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

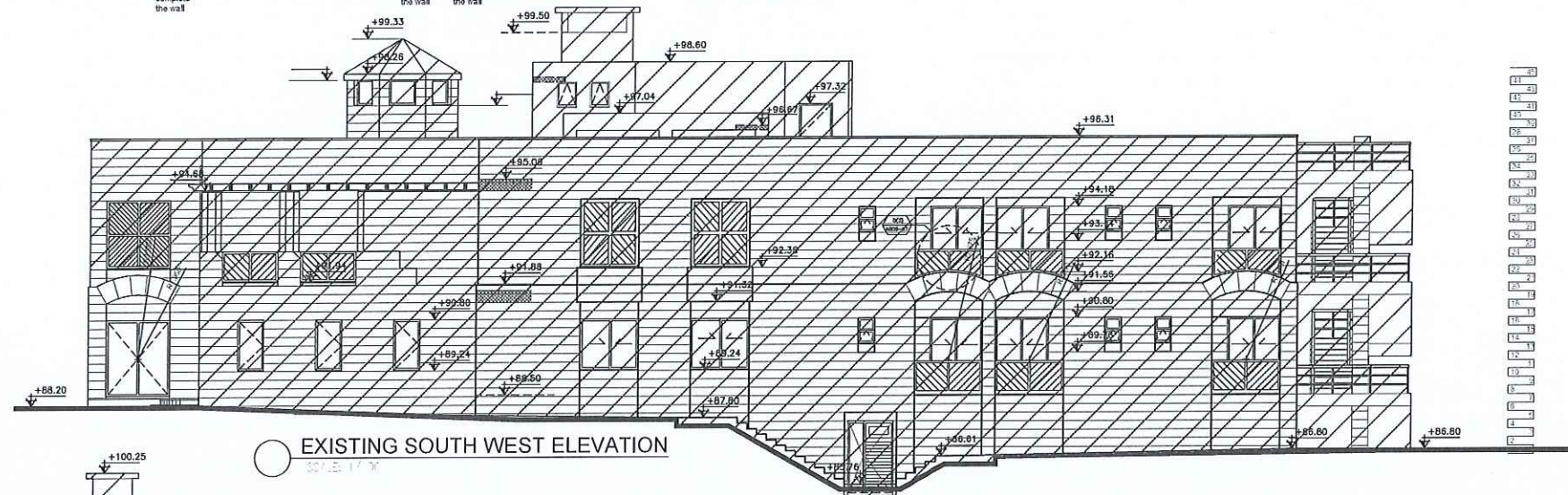
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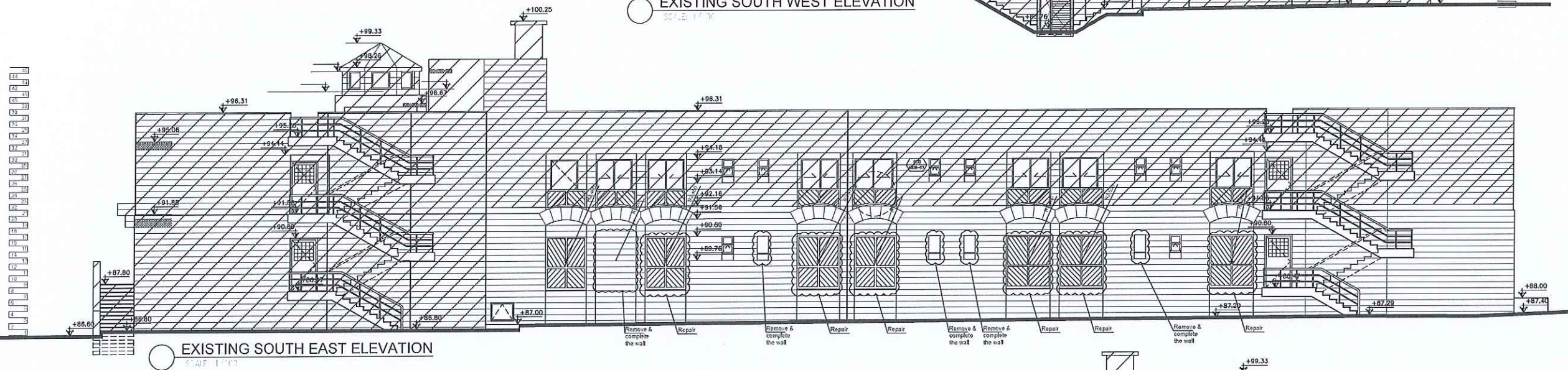
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MAR.2024	342-3	342-3-A102	A



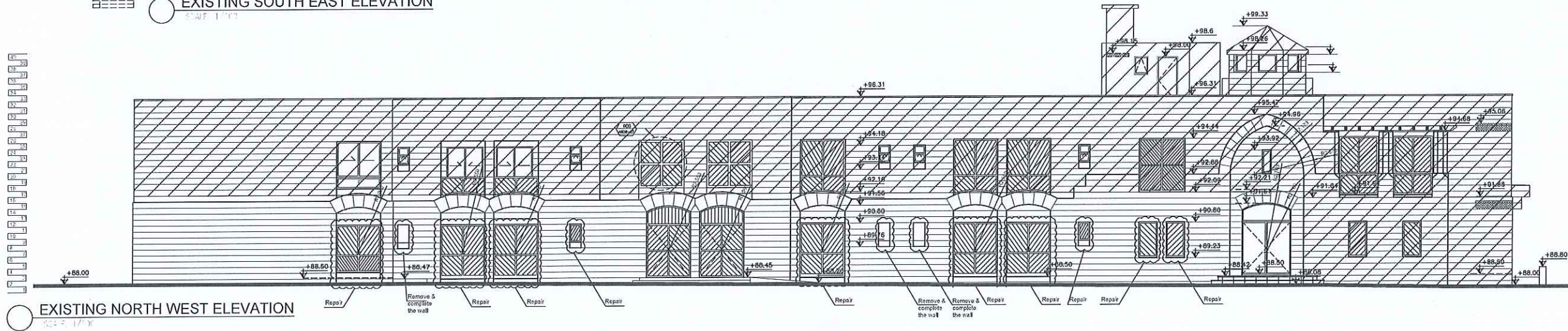
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EXISTING SOUTH WEST ELEVATION



EXISTING SOUTH EAST ELEVATION



EXISTING NORTH WEST ELEVATION

OUT OF SCOPE

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

NOTES :
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PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

ELEVATIONS

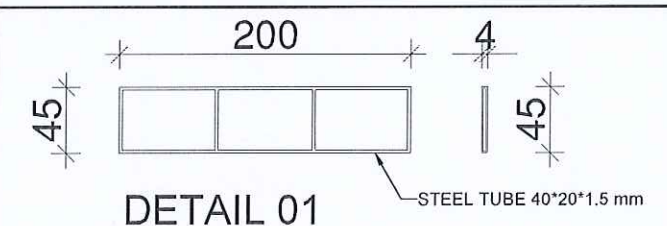
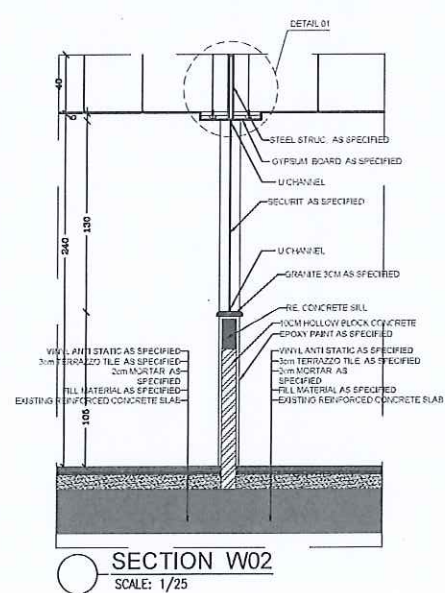
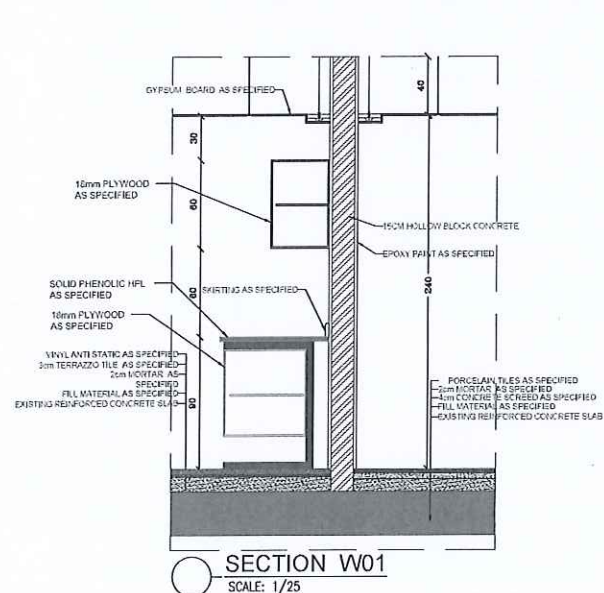
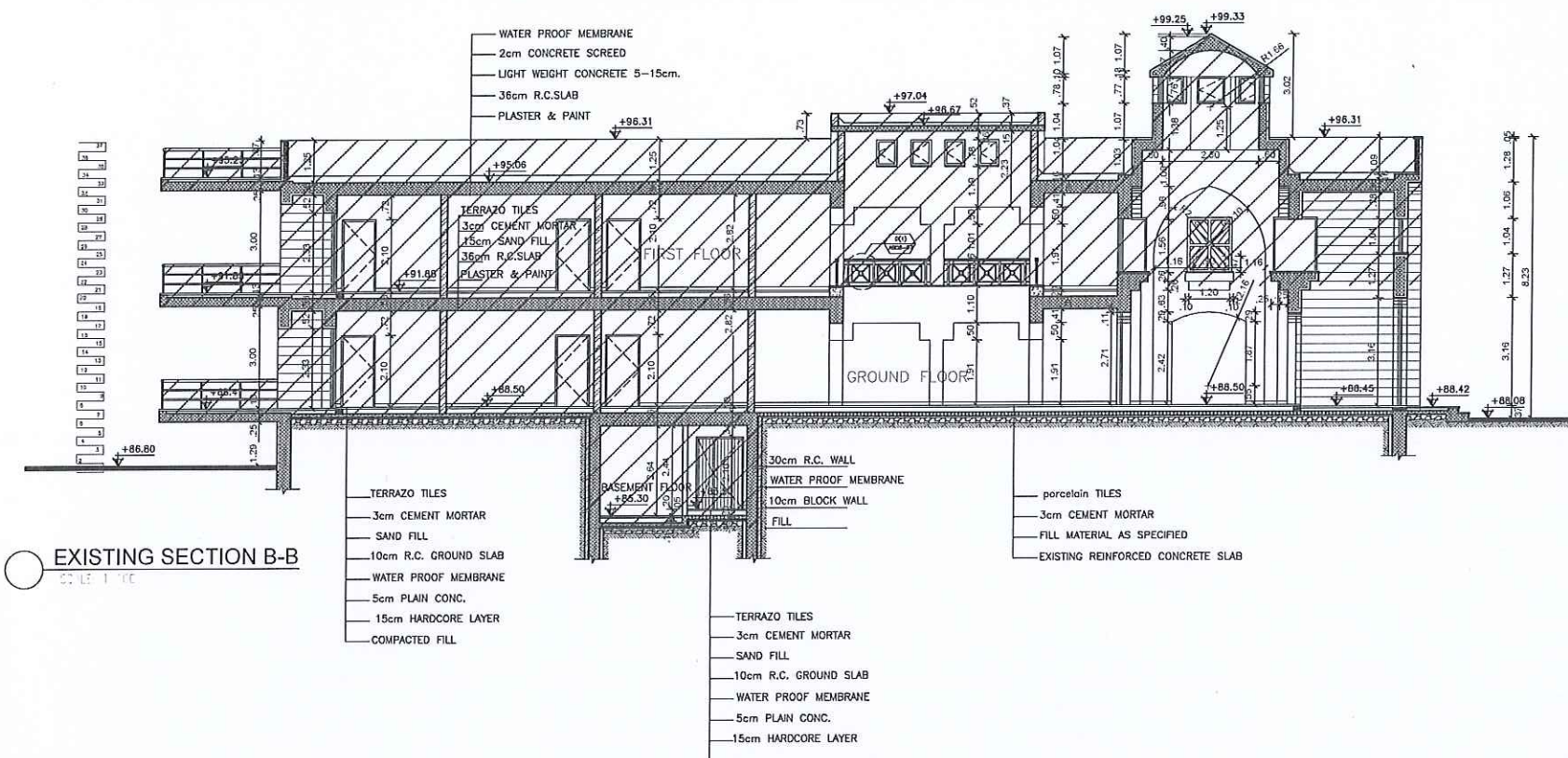
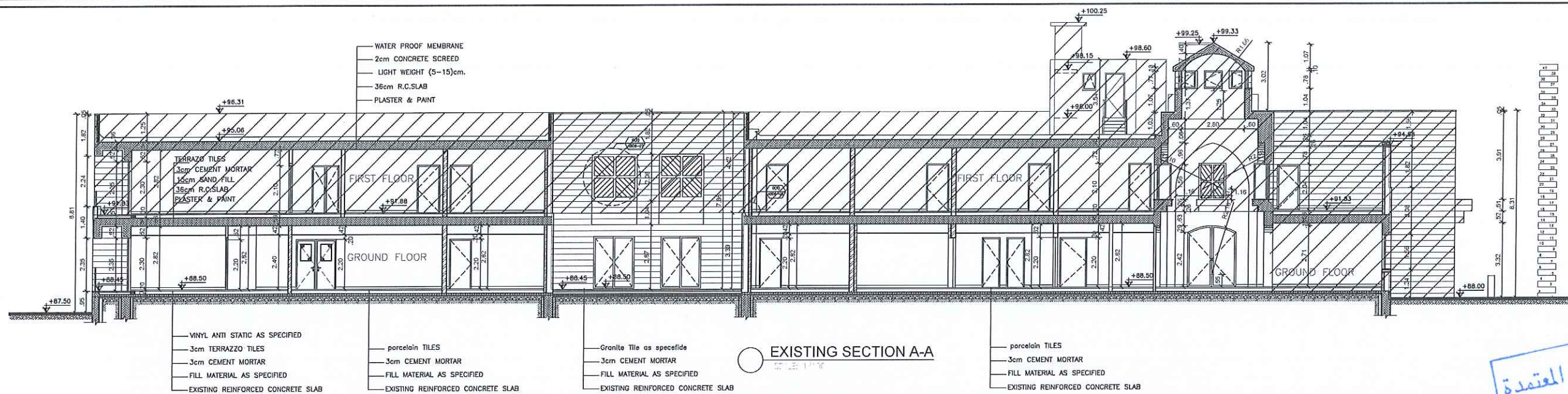
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SCALE: 1/100 SHEET SIZE: A1

PILOT NO.	BASIN NO.	CAD FILE	
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MAR.2024	342-3	342-3-A201	A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :
SECTIONS
& WALL SECTIONS

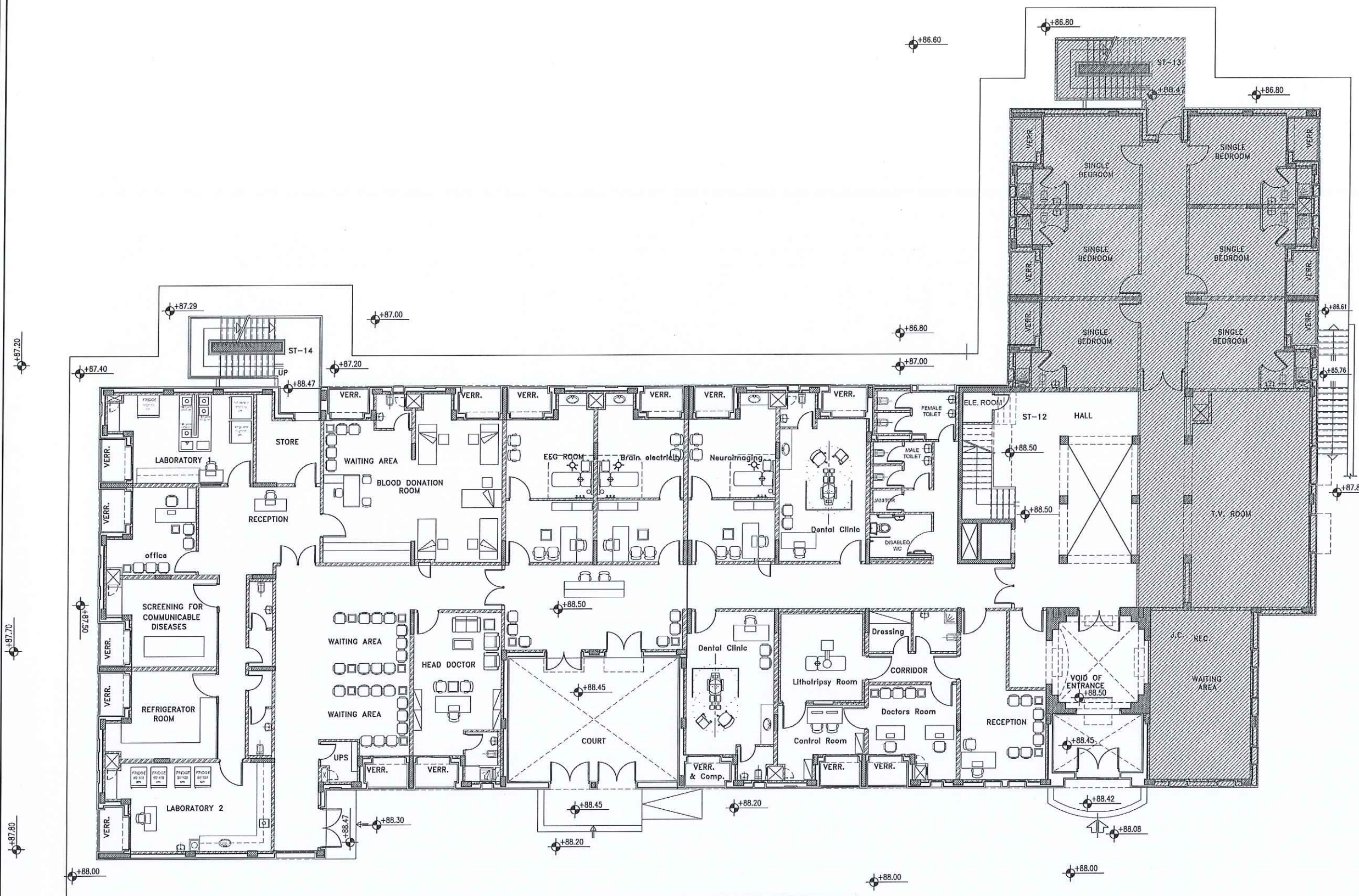
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DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—
SCALE: 1/100 SHEET SIZE: A1		
FLY NO.	BARNO NO.	CAD FILE
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MAR.2024	342-3	342-3-A251
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NOTES :

- ALL DIMENSIONS ARE IN CENTIMETERS
- ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
موجب التعليمات الفنية السارية



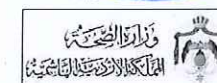
KEY PLAN



وزارة الصحة
لجنة شراء الأشغال
التاريخ
مستشفى الأمومة

NORTH

PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS CLINICS RENOVATION

DRAWING NAME :

FURNITURE GROUND
FLOOR PLAN

Prepared By :



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e-mail: ruqn@ruqn.com
Website: www.ruqn.com

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CHECKED BY	R.F.S	196
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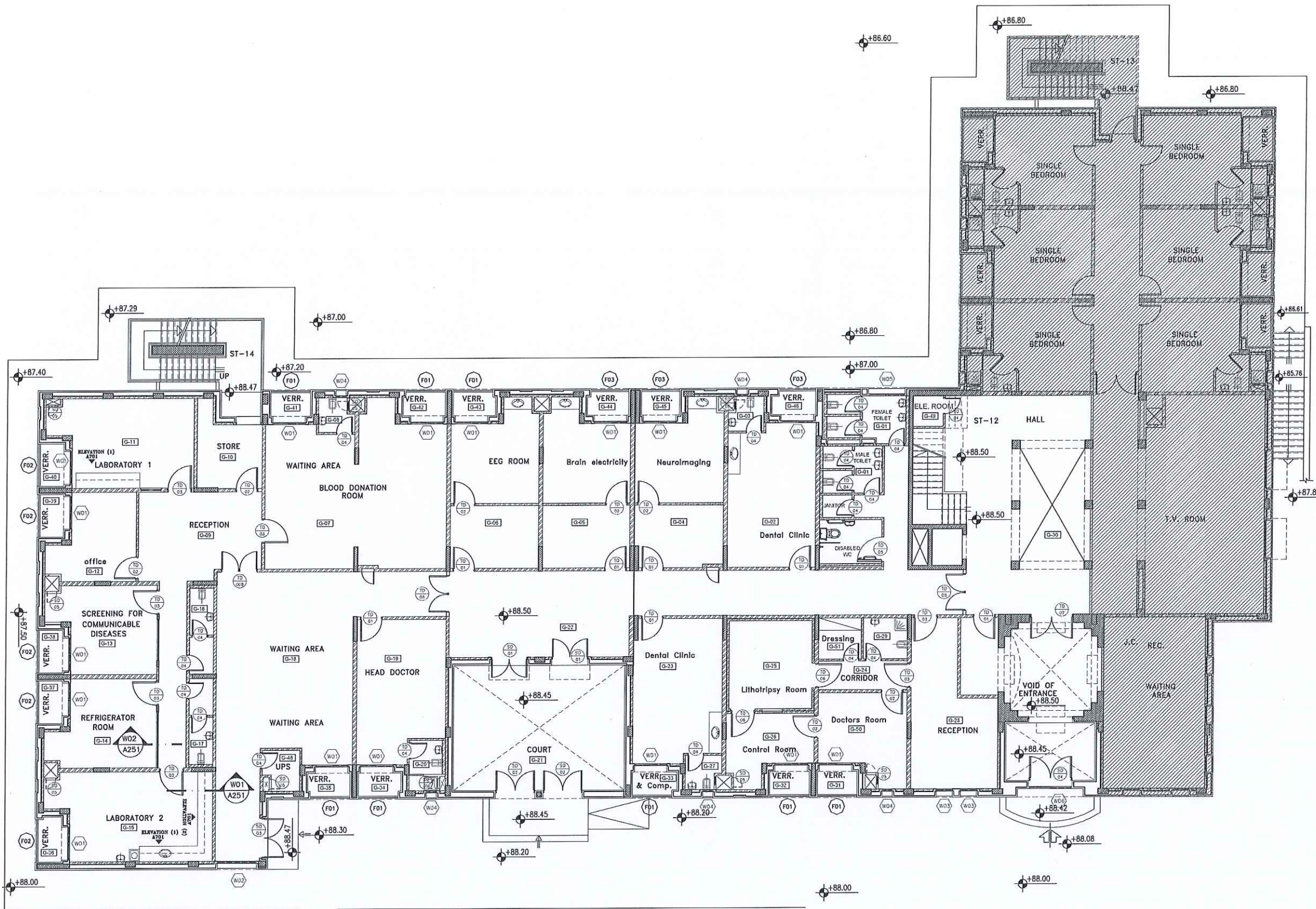
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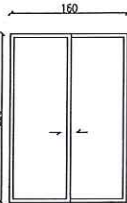
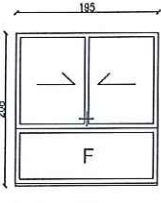
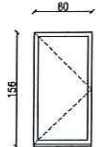
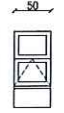
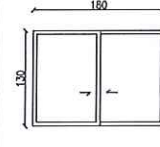
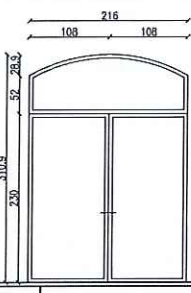
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MAR.2024	342-3	342-3-A401	A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
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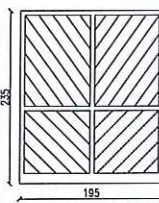
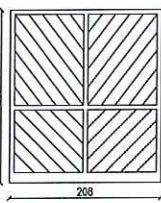
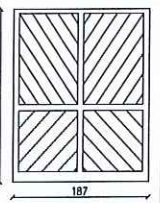
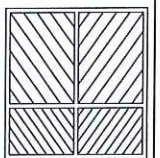
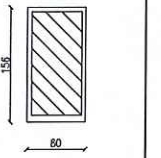
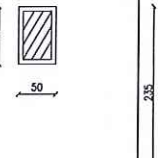
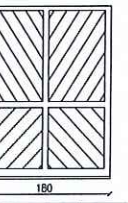
تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية لاسارية



WINDOWS SCHEDULE

					
W01 16	W02 1	W03 2	W04 5	W05 1	W06 1

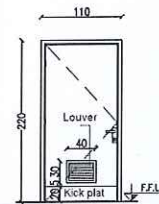
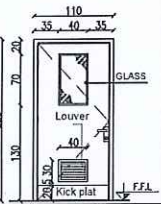
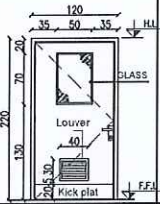
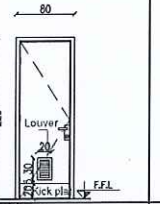
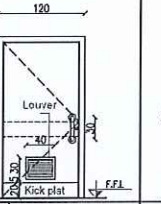
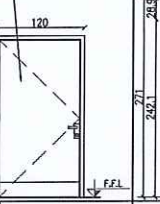
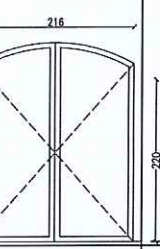
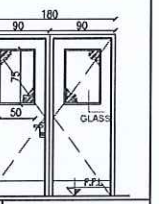
STEEL SCHEDULE

						
F01 8 EXISTING	F02 5 EXISTING	F03 3 EXISTING	W02 1 EXISTING	W03 2 EXISTING	W04 5 EXISTING	W05 1 NEW

WINDOWS SCHEDULE

NO	DIMENSION W X H	CODE / MOVEMENT	MATERIAL	FINISH	GLAZING	QUANTITY	NOTE
W01	1.60X 2.30	SLIDING	ALUMINUM	POWDER COATED		16	EXISTING
W02	1.95 X 2.08	SLIDING / FIXED	ALUMINUM	POWDER COATED		1	EXISTING
W03	0.80 X 1.56	HINGED	ALUMINUM	POWDER COATED		3	EXISTING
W04	0.50 X 0.78	HINGED / FIXED	ALUMINUM	POWDER COATED		5	EXISTING
W05	1.80 X 1.30	SLIDING	ALUMINUM	POWDER COATED	DOUBLE GLAZING	1	NEW
W06	2.16 X 3.10	SLIDING	ALUMINUM	POWDER COATED		1	EXISTING

DOORS SCHEDULE

							
TD01	TD02	TD03	TD04	TD05	TD06	TD07	TD08

DOORS SCHEDULE

NO	STRUCTURAL OPENING	DOOR LEAF DIMENSION	TYPE	No.OF LEAVES	MATERIAL	FINISH	DOOR HANDLE	No.OF HINGES	QUANTITY	NOTE
TD01	1.10X 2.20	1.00X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	7	NEW WITH KICK PLAT & (louver)
TD02	1.10X 2.20	1.00X 2.15	HINGED	SINGLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	7	NEW WITH KICK PLAT & (louver)
TD03	1.20X 2.20	1.10X 2.15	HINGED	SINGLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	7	NEW WITH KICK PLAT & (louver)
TD04	0.80 X 2.20	0.70 X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	19	NEW WITH KICK PLAT & (louver)
TD05	1.20 X 2.20	1.10 X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	1	NEW WITH KICK PLAT & (louver)
TD06	1.20 X 2.20	1.10 X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	2	NEW X-RAY PROTECTED
TD07	2.16 X 2.71	2.06 X 2.66	HINGED	DOUBLE	TIMBER	LAMINATE	LEVER HAND	3	1	Repair THE EXISTING
TD08	1.80 X 2.20	1.70 X 2.15	HINGED	DOUBLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	3	NEW / WITH KICK PLAT

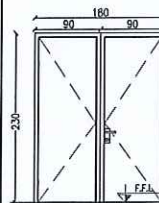
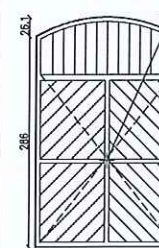
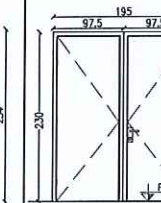
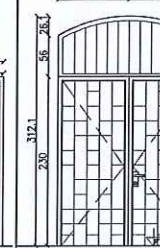
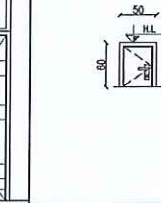
DOORS SCHEDULE

NO	STRUCTURAL OPENING	DOOR LEAF DIMENSION	TYPE	No.OF LEAVES	MATERIAL	FINISH	DOOR HANDLE	No.OF HINGES	QUANTITY	NOTE
SD01	1.80 X 2.30	1.70 X 2.25	HINGED	DOUBLE	STEEL	THERMAL	LEVER HAND	3	2	NEW
SD02	1.95 X 3.12	1.85 X 3.07	HINGED	DOUBLE	STEEL	THERMAL	LEVER HAND	3	2	NEW
SD03	1.95 X 2.30	1.85 X 2.25	HINGED	DOUBLE	STEEL	THERMAL	LEVER HAND	3	1	NEW
SD04	2.16 X 3.12	2.06 X 3.07	HINGED	DOUBLE	STEEL	THERMAL	LEVER HAND	3	1	Repair THE EXISTING
SD05	0.50 X 0.60	0.40 X 0.55	HINGED	SINGLE	STEEL	THERMAL	LEVER HAND	2	9	NEW

GROUND FLOOR FINISHING SCHEDULE

BUILDING	ROOM NO.	ROOM NAME	FLOOR	SKIRTING	WALLS	CEILING	REMARKS
	G-01	TOILETS					
	G-02	DENTAL CLINIC					
	G-03	WC					
	G-04	Neuroimaging					
	G-05	Brain electricity					
	G-06	EEG ROOM					
	G-07	BLOOD DONATION					
	G-08	WC					
	G-09	RECEPTION					
	G-10	STORAGE					
	G-11	LABORATORY 1					
	G-12	OFFICE					
	G-13	SCREENING FOR COMMUNICABLE DISEASES					
	G-14	REFRIGERATOR ROOM					
	G-15	LABORATORY 2					
	G-16	WC					
	G-17	WC					
	G-18	WAITING AREA					
	G-19	HEAD DOCTOR					
	G-20	WC					
	G-21	COURT					
	G-22	ENTRANCE					
	G-23	DENTAL CLINIC					
	G-24	CORRIDOR					
	G-25	Osteoporosis clinic					
	G-26	CONTROL ROOM					
	G-27	WC					
	G-28	RECEPTION					
	G-29	WC					
	G-30	Hall					
	G-31	VERANDAH					
	G-32	VERANDAH					
	G-33	VERANDAH					
	G-34	VERANDAH					
	G-35	VERANDAH					
	G-36	VERANDAH					
	G-37	VERANDAH					
	G-38	VERANDAH					
	G-39	VERANDAH					
	G-40	VERANDAH					
	G-41	VERANDAH					
	G-42	VERANDAH					
	G-43	VERANDAH					
	G-44	VERANDAH					
	G-45	VERANDAH					
	G-46	VERANDAH					
	G-47	VERANDAH					
	G-48	UPS					
	G-49	ELE. ROOM					
	G-50	DOCTORS ROOM					
	G-51	CHANGING ROOM					

DOORS SCHEDULE

				
SD01 2	SD02 2	SD03 1	SD04 1	SD05

NOTES :

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

DOORS,WINDOWS
& FINISHES
SCHEDULES

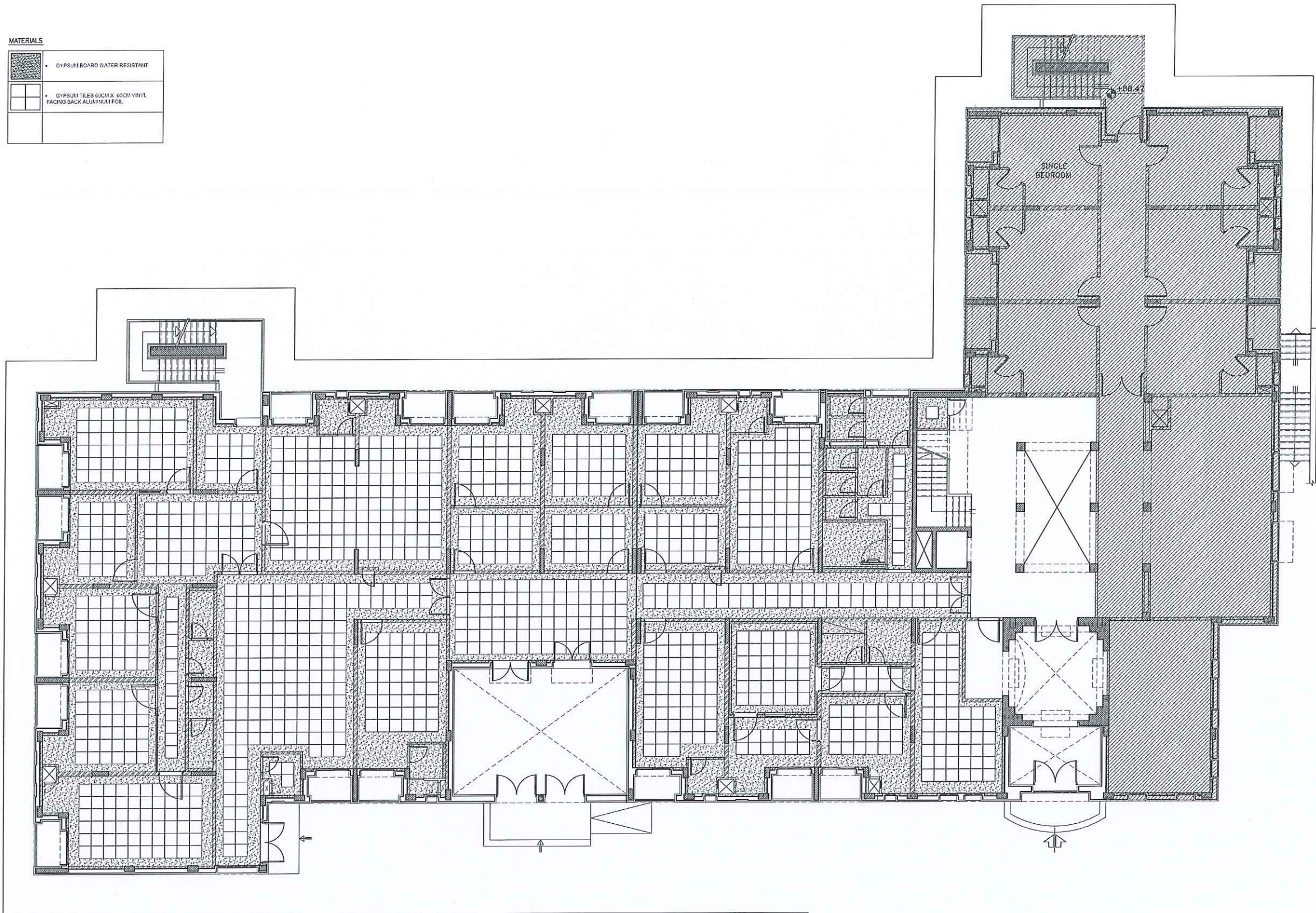
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CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—
SCALE: 1/100	SHEET SIZE: A1	
PLOT NO.	BAIN NO.	CAD FILE
ISSUE DATE	PROJECT NO.	SER_DC_X_REF_342
MAR.2024	342-3	342-3-A452
		REV. A

MATERIALS

	• GYPSUM BOARD WATER RESISTANT
	• GYPSUM TILES 60CM X 60CM VINYL FACING BACK ALUMINUM FOIL



NOTES :
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-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

CEILING GROUND
FLOOR PLAN

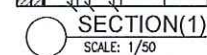
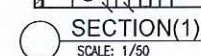
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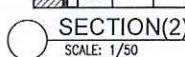
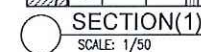
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CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

SCALE: 1/100 SHEET SIZE: A1

PT NO.	BATCH NO.	CAD FILE	
		SER_DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-3	342-3-A601	A



- ① WASH BASIN
- ② LEVER MIXER FOR WASH BASIN
- ③ FRAMELESS MIRROR
- ④ TOILET PAPER DISPENSER
- ⑤ SWING-TOP WASTE RECEPTACLE
- ⑥ SQUAT LATRINE
- ⑦ WATER CISTERN
- ⑧ FLEXIBLE METAL HOSE WITH END VALVE TAP



NOTES :

- ALL DIMENSIONS ARE IN CENTIMETERS
- ALL LEVELS ARE IN METERS

التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



LABORATORY 1



LABORATORY 2

REV. NO.	DATE	DESCRIPTION
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KEY PLAN



PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

TOILETS DETAILS
& COUNTER DETAILS

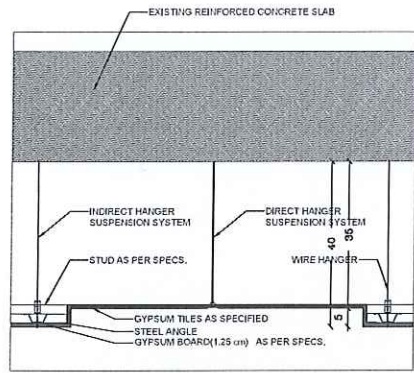
Prepared By :	
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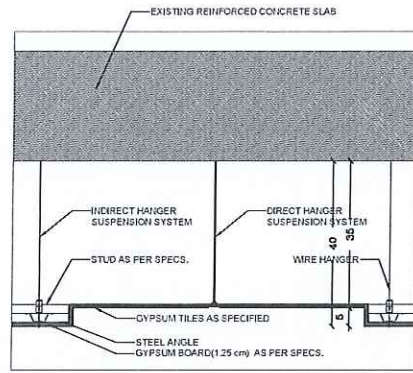
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CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

SCALE: $\frac{1}{160}$
 $\frac{1}{25}$ SHEET SIZE: A1

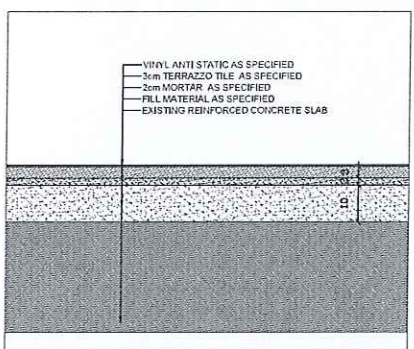
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		SER._DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-3	342-3-A701	A



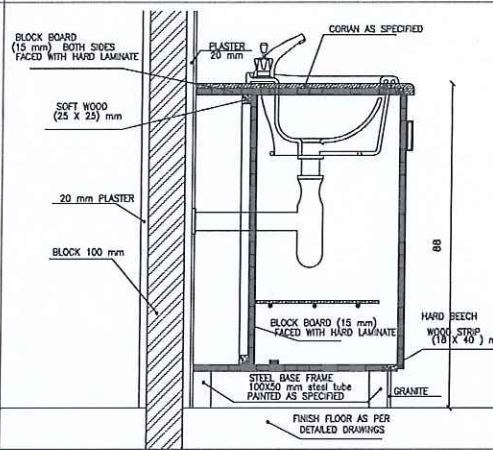
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SCALE: 1/10



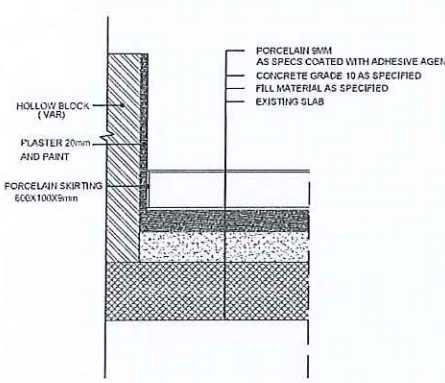
VERTICAL SECTION IN LAB CEILING
SCALE: 1/10



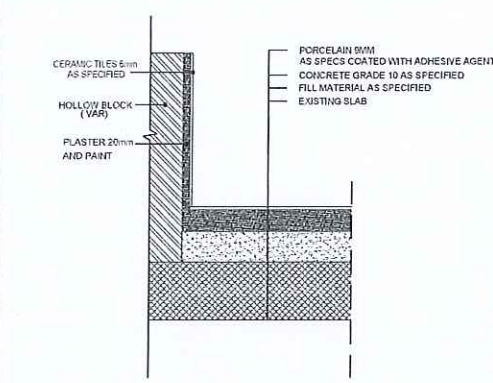
VERTICAL SECTION IN LAB FLOOR
SCALE: 1/10 VINYL FLOOR



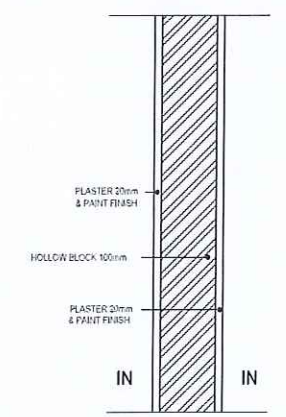
VERTICAL SECTION IN COUNTER
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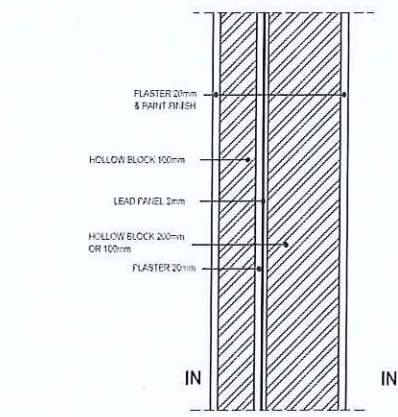
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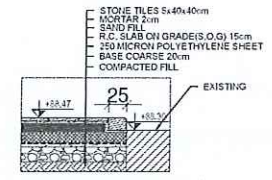
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SCALE: 1/10 TOILETS



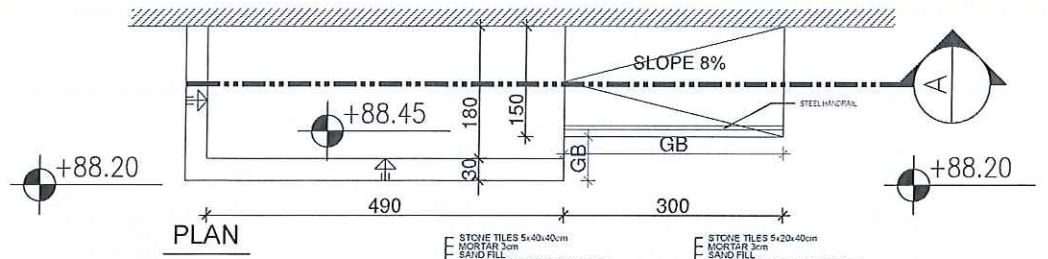
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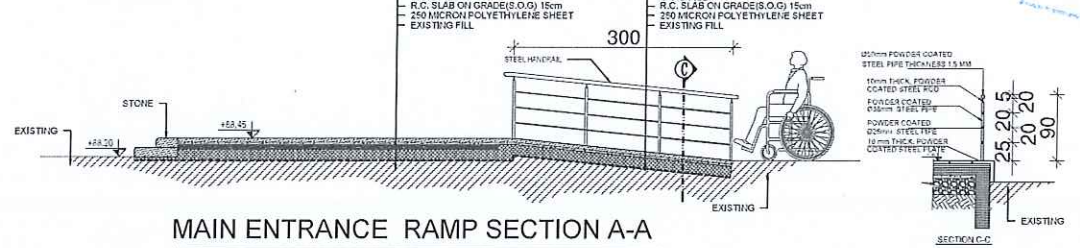
X-RAY WALLS DETAIL
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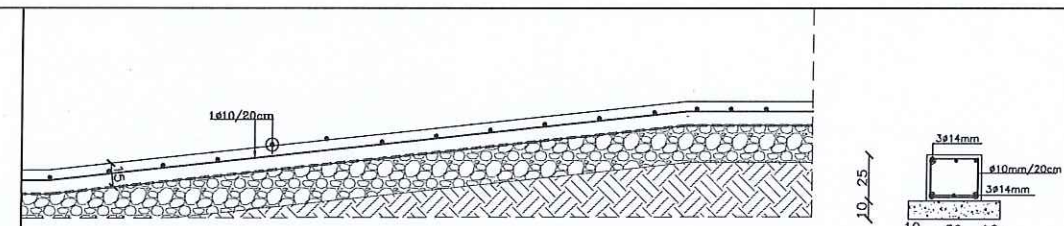
SECTION B-B



PLAN

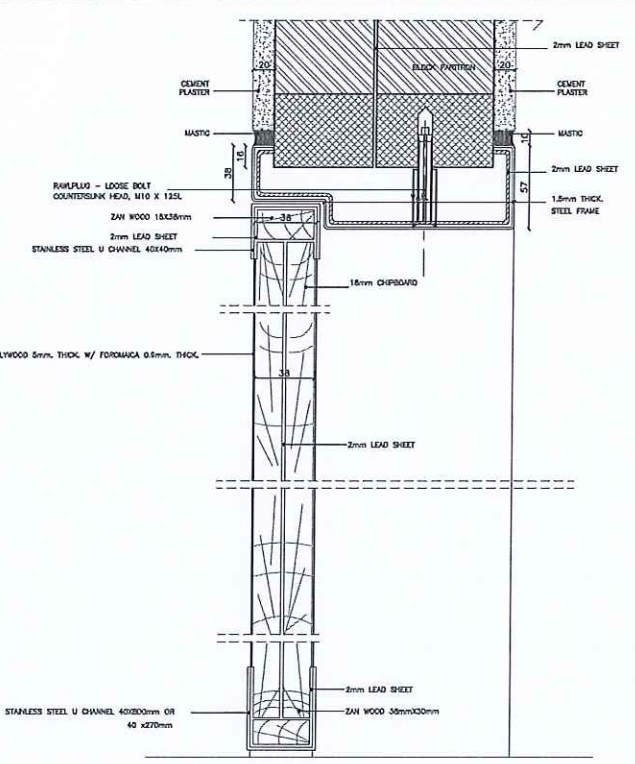


MAIN ENTRANCE RAMP SECTION A-A

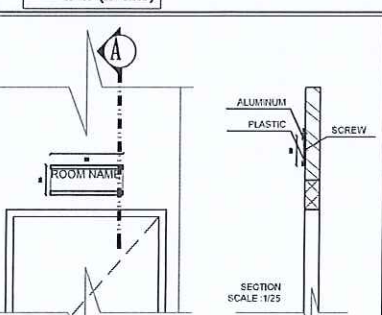


TYP. SEC. IN RAMP

G.B1. SECTION
1:20



VERTICAL SECTION A-A (X-RAY)



ROOM NAME LABEL DETAILS
SCALE: 1/25

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعمدة بموجب التعليمات الفنية السارية

REV. NO.	DATE	DESCRIPTION
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PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

BLOOD BANK AND VARIOUS CLINICS RENOVATION

GENERAL DETAILS & RAMP DETAILS

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SCALE: N.T.S	SHEET SIZE: A1	
FILE NO.	BASED NO.	CAD FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	342-3-A901
		REV. A



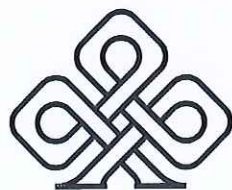
تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES



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LIST OF DRAWING

ARCHITECTURAL DRAWINGS	
SHEET No.	COVER DRAWING TITEL
A000	INDEX
A001	AREA
A002	FIRST FLOOR DIMENSION PLAN AS BUILT
A003	DEMOLISH FIRST FLOOR PLAN
A004	DEMOLISH ROOF FLOOR PLAN
A005	DEMOLISH ELEVATIONS
A101	DIMENSION FIRST FLOOR PLAN
A102	DIMENSION ROOF FLOOR PLAN
A103	DIMENSION TOP OF ROOF PLAN
A201	ELEVATIONS
A251	SECTIONS&WALL SECTION
A401	FURNITURE FIRST FLOOR PLAN
A451	TAG FIRST FLOOR PLAN
A452	DOOR AND WINDOW SCHEDULES &FINISHES SCHEDULES &GENERAL DETAILS
A601	CEILING FIRST FLOOR PLAN
A701	TOILETS ENLARGEMENT
A901	GENERAL DETAILS
A902	COUNTER DETAILS
A903	COUNTER DETAILS

MECHANICAL DRAWINGS	
SHEET No.	DRAWING TITEL
M-000	LEGENDS & SYMBOLS
M-101	DRAINAGE LAYOUT / FIRST FLOOR
M-201	WATER LAYOUT / FIRST FLOOR
M-401	HVAC LAYOUT / FIRST FLOOR
M-402	HVAC LAYOUT / TOP OF ROOF
M-501	FIRE FIGHTING LAYOUT / FIRST FLOOR
M-901	DETAILS

ELECTRICAL DRAWINGS	
SHEET No.	DRAWING TITEL
E-100	LEGEND
E-200	LIGHTING SYSTEM FIRST FLOOR
E-300	POWER SYSTEM FIRST FLOOR
E-400	HVAC SYSTEM FIRST FLOOR
E-401	HVAC SYSTEM ROOF FLOOR
E-500	ELECTRICAL PANELS
E-501	ELECTRICAL PANELS
E-600	DATA & TELE. SYSTEM FIRST FLOOR
E-601	NUMBERING SYSTEM FIRST FLOOR
E-602	DATA & TELE. & NUMBERING RISERS
E-700	CCTV SYSTEM FIRST FLOOR
E-701	CCTV RISER
E-800	FIRE ALARM SYSTEM FIRST FLOOR
E-801	FIRE ALARM RISER

NOTES :
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-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

INDEX

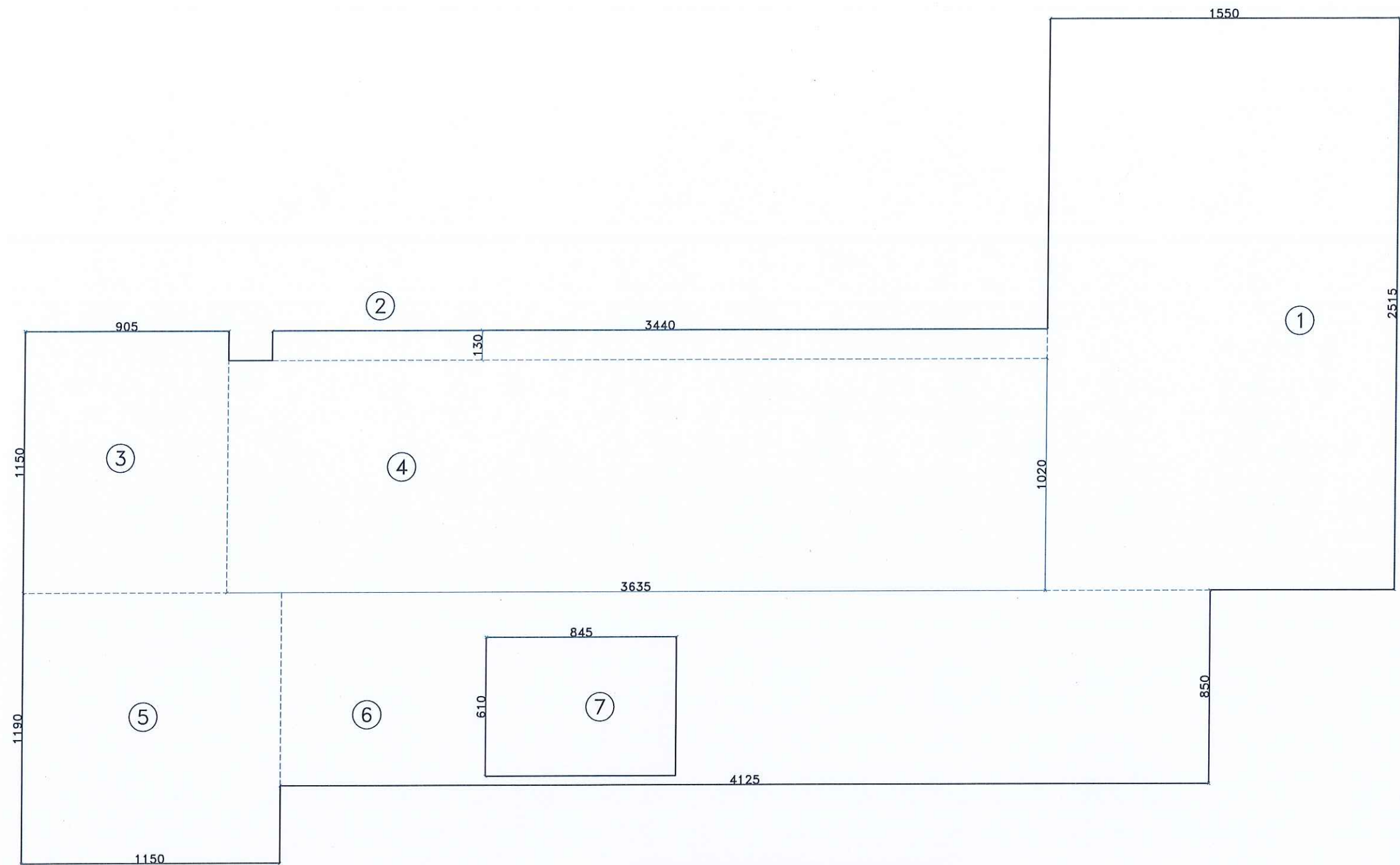
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SCALE: 1/100 SHEET SIZE: A1

LOT NO.	BASIN NO.	CAD FILE	
		SER._DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A000	A



FIRST FLOOR PLAN AREA
Scale: 1/200

SCHEDULE OF FIRST FLOOR AREA

no.	Calculation	Area
1.00	15.50 X 25.15	+389.83
2.00	34.40 X 1.30	+44.72
3.00	9.05 X 11.50	+104.07
4.00	36.35 X 10.20	+370.77
5.00	11.50 X 11.90	+136.85
6.00	41.25 X 8.50	+350.63
7.00	8.45 X 6.10	-51.55
	Total Area	1345.32

NOTES :
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تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO.	DATE	DESCRIPTION



PROJECT OWNER :

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
AREAS

Prepared By :
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Website: www.ruqn.com

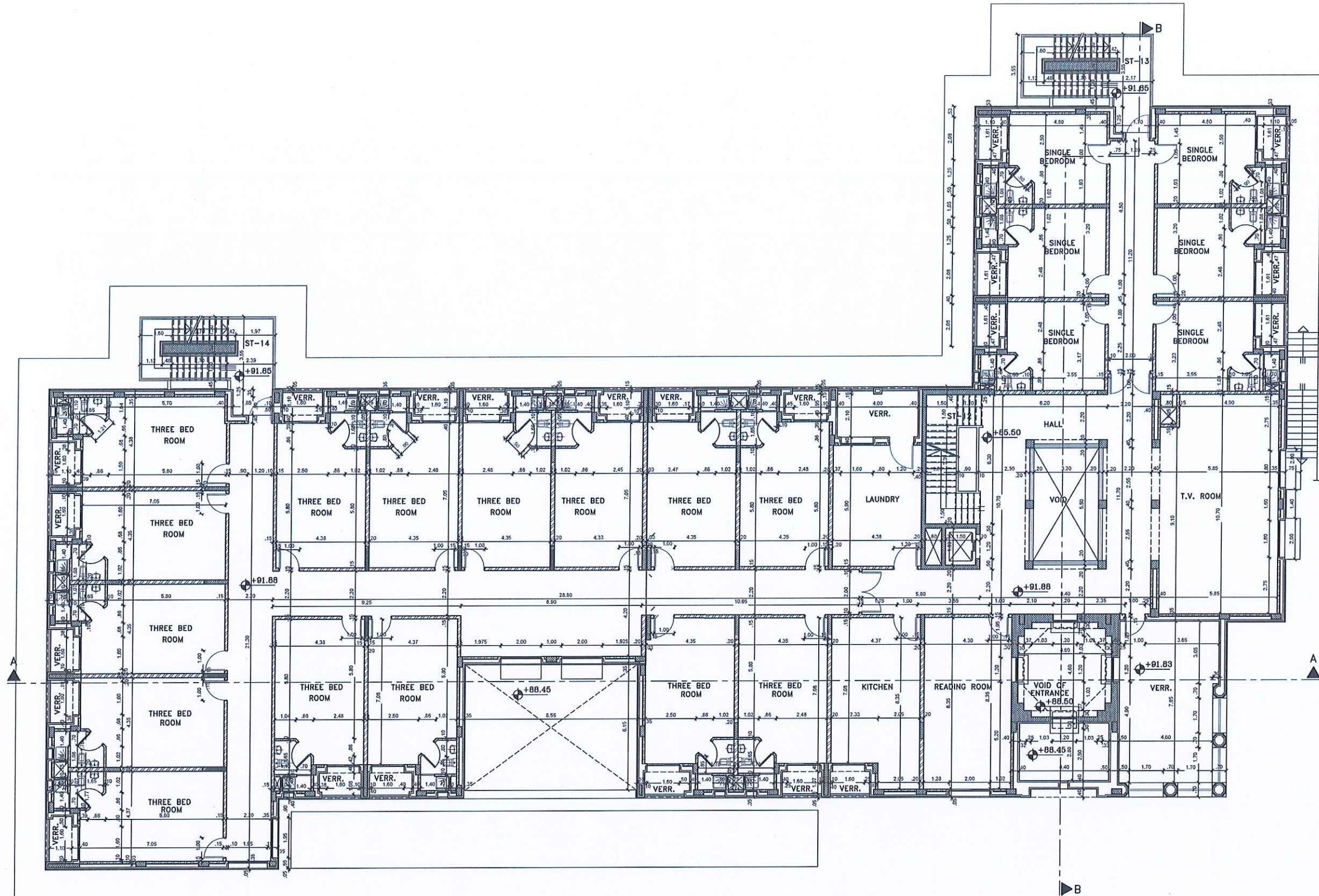
DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

SCALE: 1/100 SHEET SIZE: A1

ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A001	A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التقييمات الفنية السارية



FIRST FLOOR PLAN-AS BUILT 1:100

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

FIRST FLOOR
DIMENSION PLAN
AS BUILT

Prepared By :

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Consulting Engineers
AMMAN - JORDAN
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e-mail: ruqn@ruqn.com
Website: www.ruqn.com

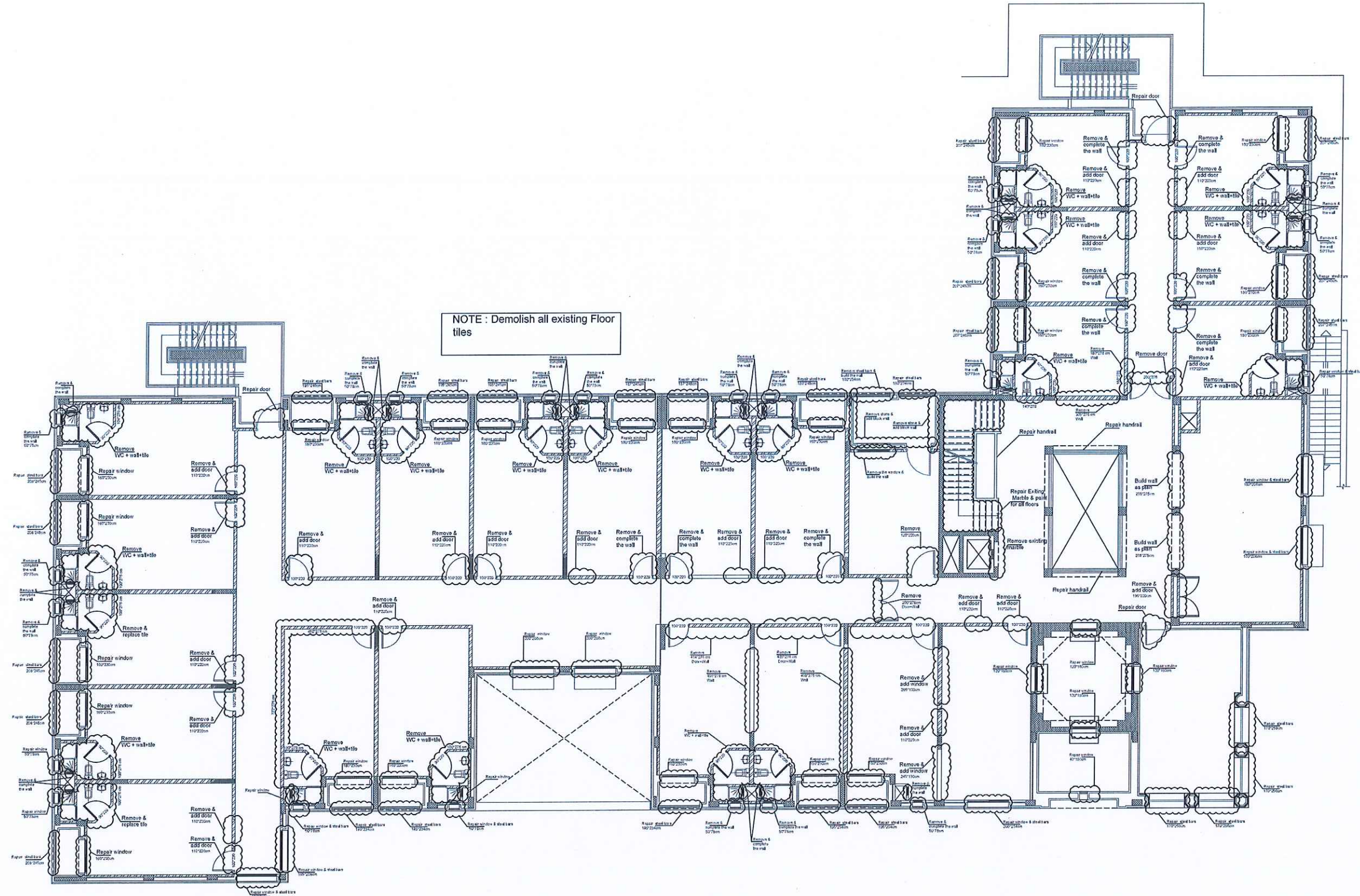
DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

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PLOT NO.	DRAWING NO.	CAD FILE
		SER_DC_XREF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A002
		REV.
		A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



REV. NO. DATE DESCRIPTION



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DEMOLISH FIRST FLOOR
PLAN

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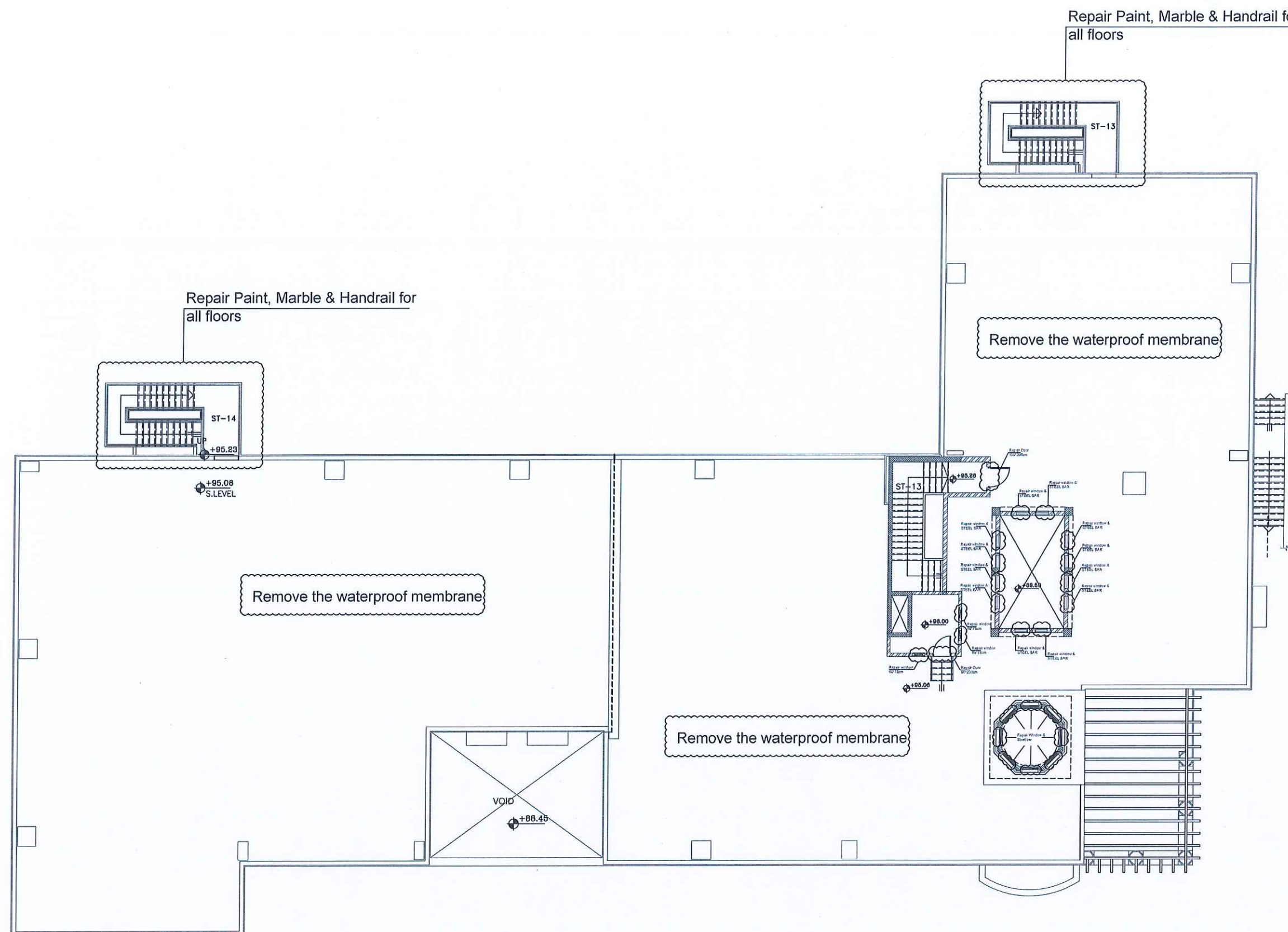
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DRAWN BY Z.M.Z

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PROJECT NO. 342-4
SERIAL NO. A003
REV. A

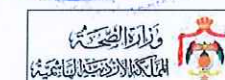
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-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
موجب التقديرات الفنية الباقية



REV. NO.	DATE	DESCRIPTION
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PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :	
----------------	--

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

DEMOLISH ROOF FLOOR
PLAN

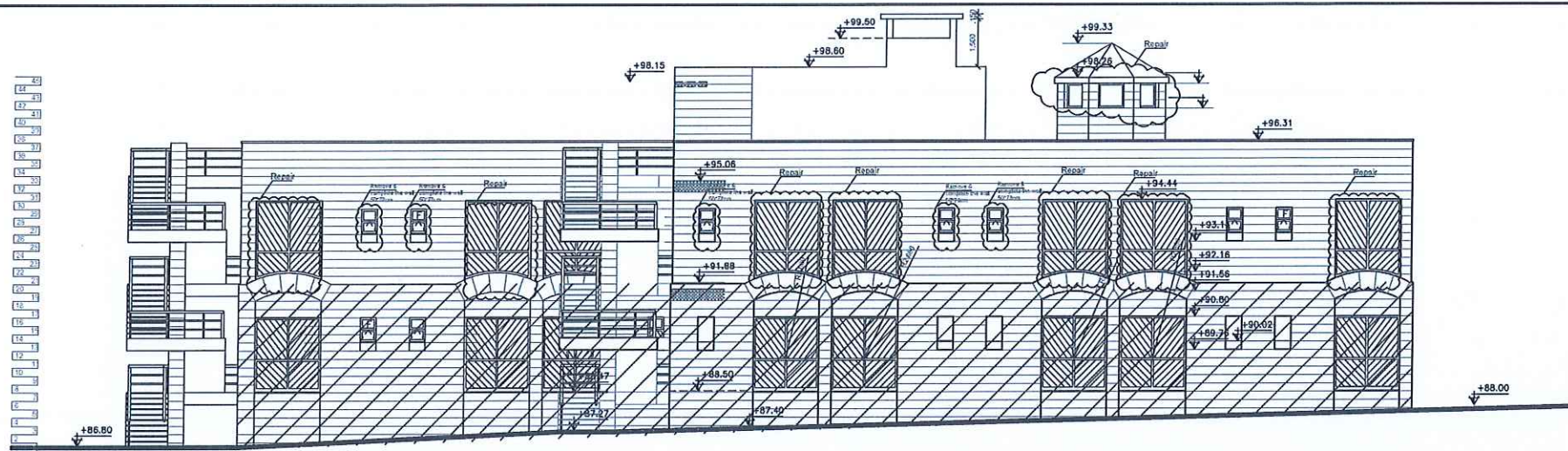
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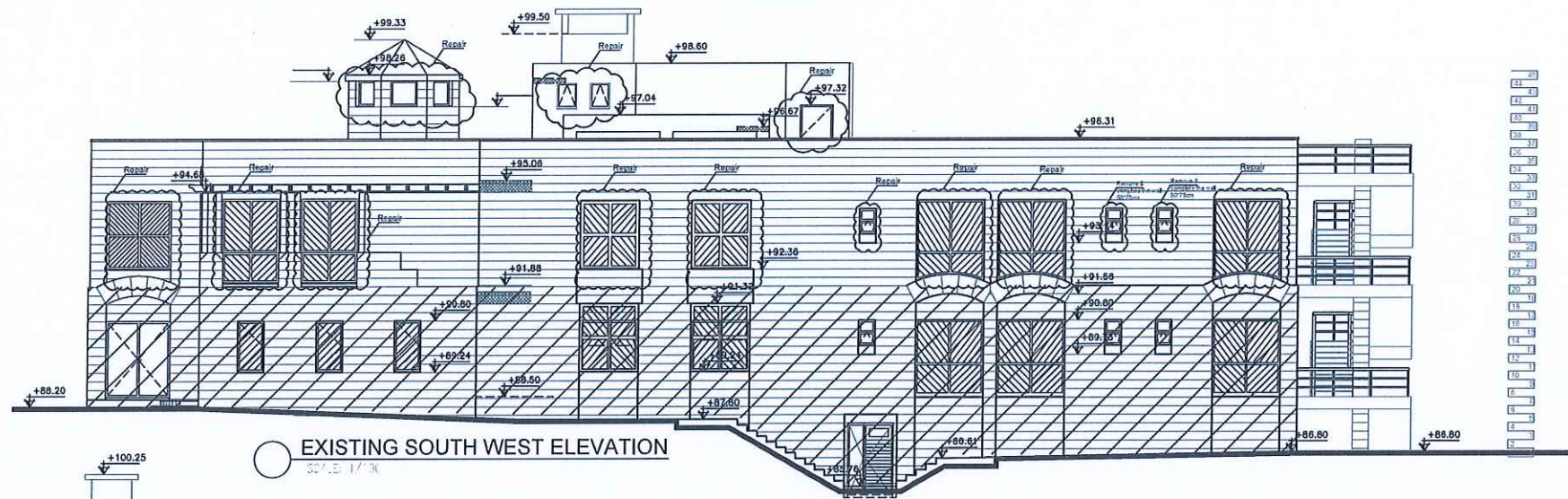
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CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

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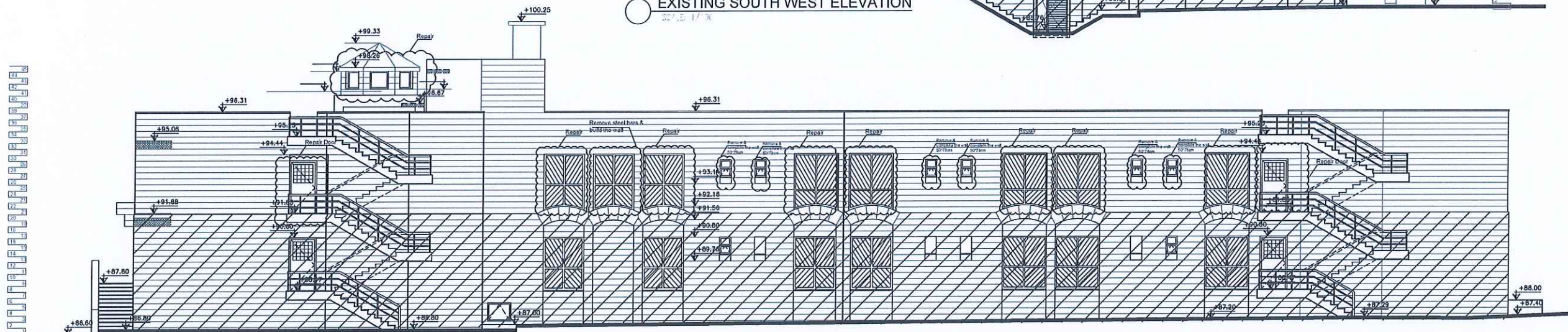
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ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A004	A



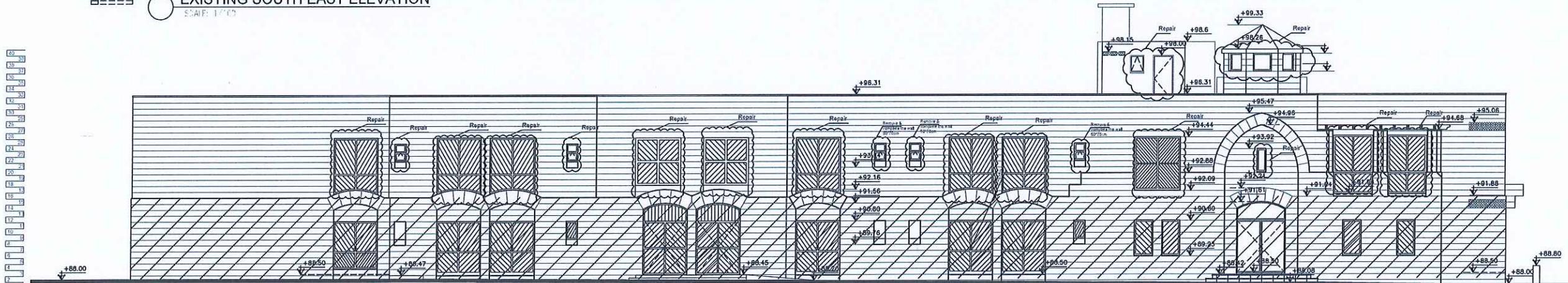
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SCALE: 1/100



EXISTING SOUTH WEST ELEVATION
SCALE: 1/100



EXISTING SOUTH EAST ELEVATION
SCALE: 1/100



EXISTING NORTH WEST ELEVATION
SCALE: 1/100

OUT OF SCOPE

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

REV. NO. DATE DESCRIPTION

KEY PLAN

وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة

NORTH

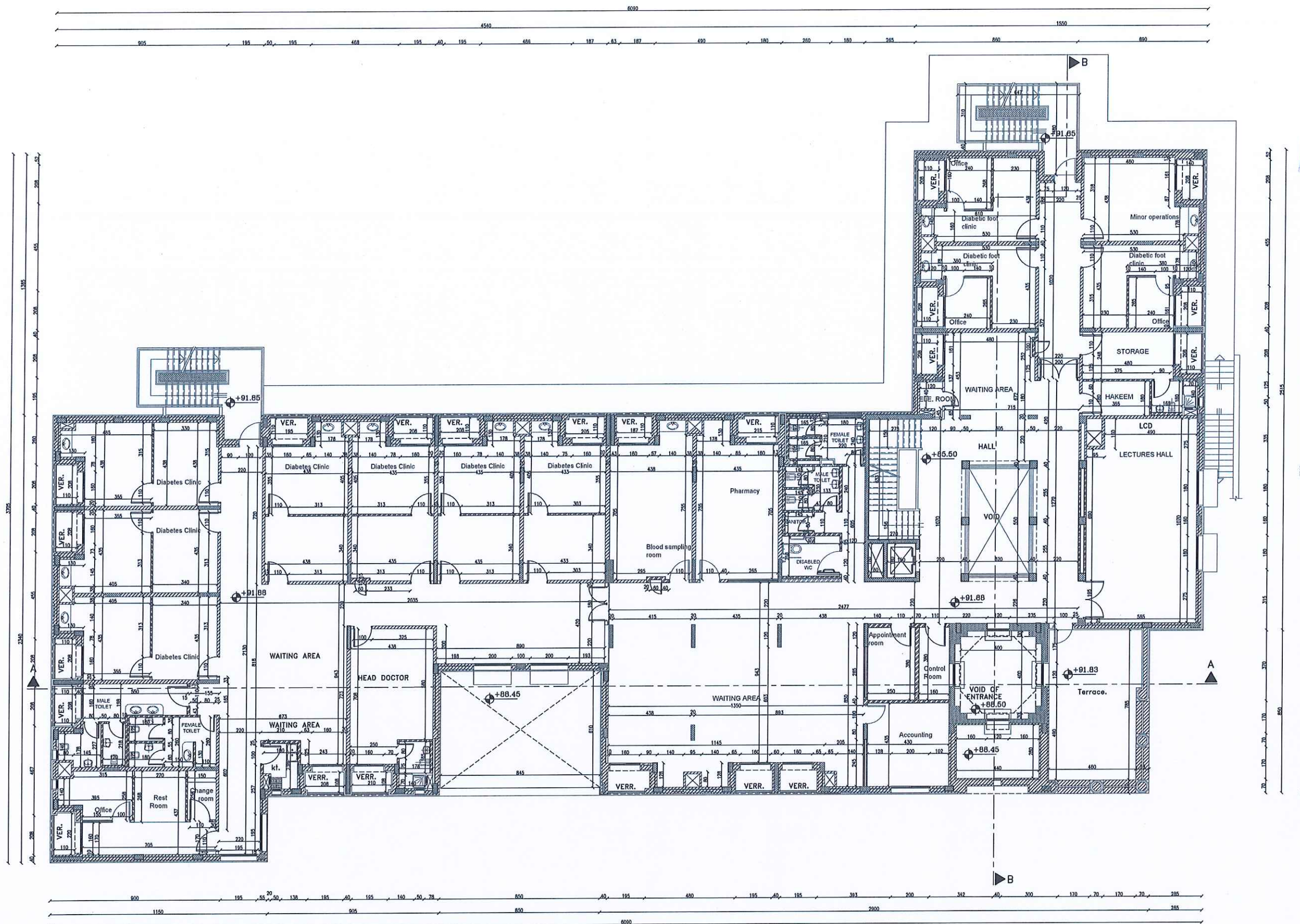
PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
ELEVATIONS
DEMOLISH

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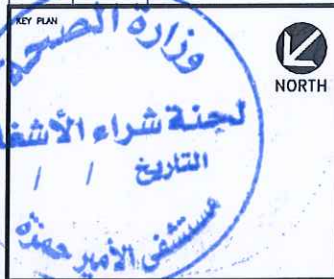
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CHECKED BY	R.F.S	196
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PLOT NO.	DRAW NO.	CAD FILE
342-4	A005	SER_DC_XREF_342
DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A005
REV.		
A		



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعمدة
مطابق التعليمات الفنية المعمدة

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

DIMENSION FIRST
FLOOR PLAN

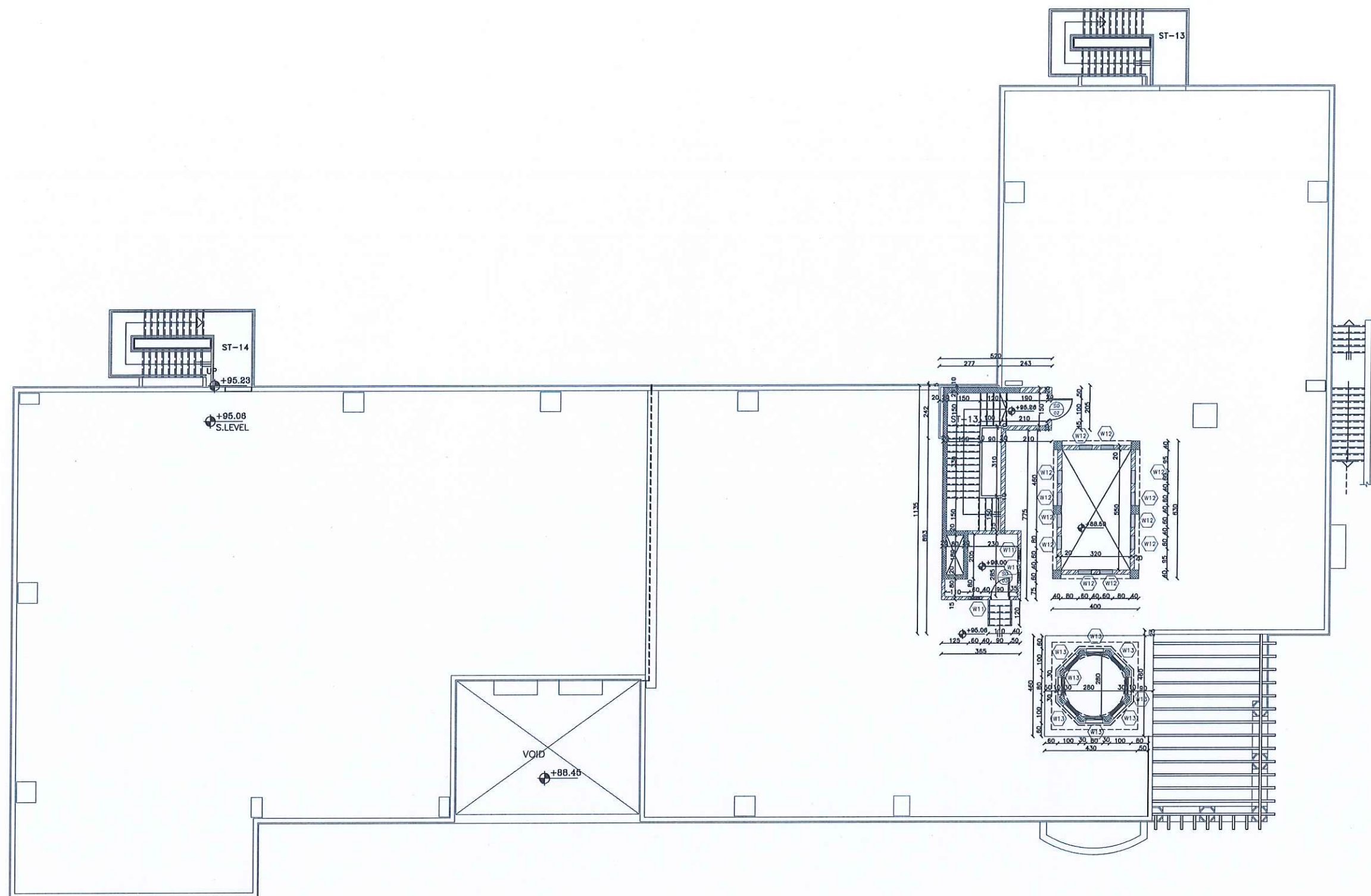
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DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

SCALE: 1/100 SHEET SIZE: A1

PILOT NO.	BARD NO.	CAD FILE
		SER_DC_XREF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A101



NOTES :
 -ALL DIMENSIONS ARE IN CENTIMETERS
 -ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المقدمة
 بموجب التظلمات الفنية السابقة

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
 Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
 AND DIABETES

DRAWING NAME :

DIMENSION & TAG ROOF
 FLOOR PLAN

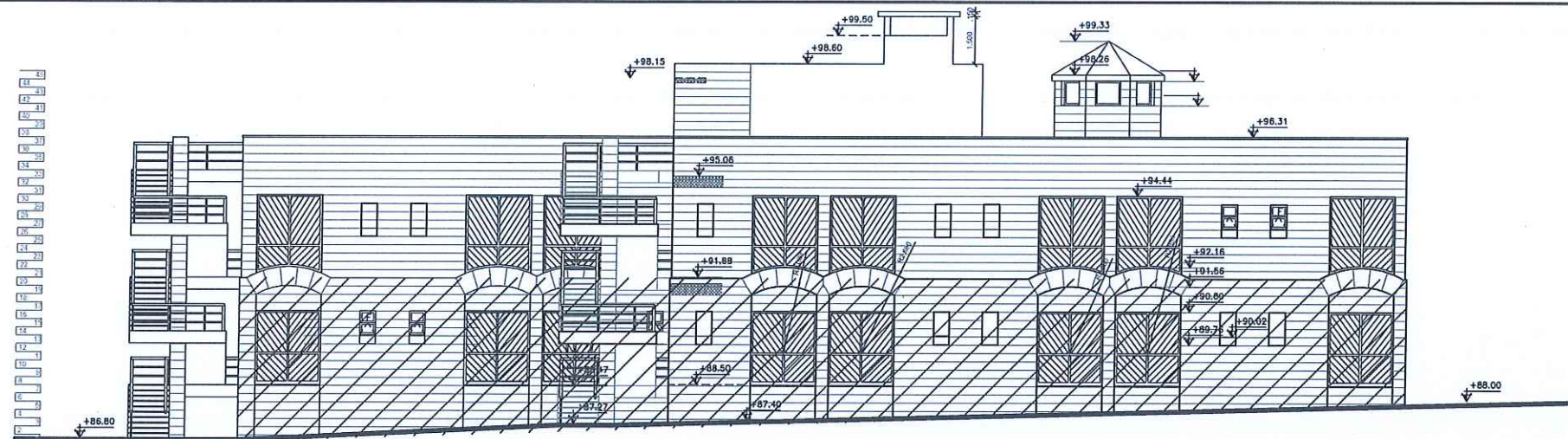
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DESIGNED BY	F.I.A	6480
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

SCALE: 1/100 SHEET SIZE: A1

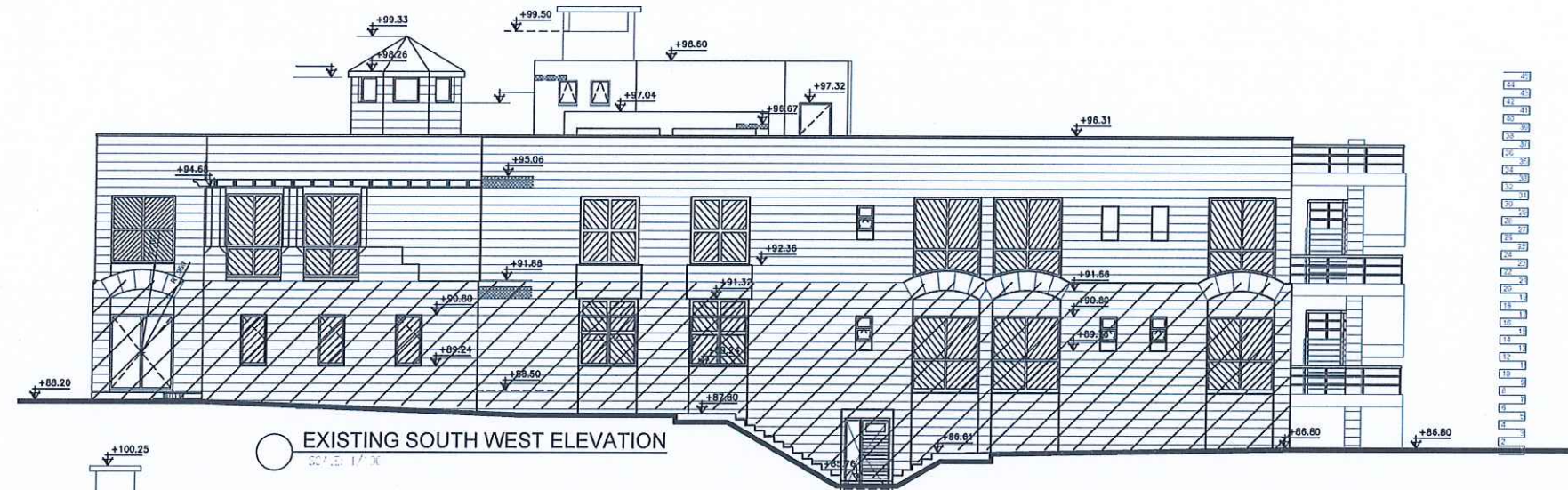
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ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A102



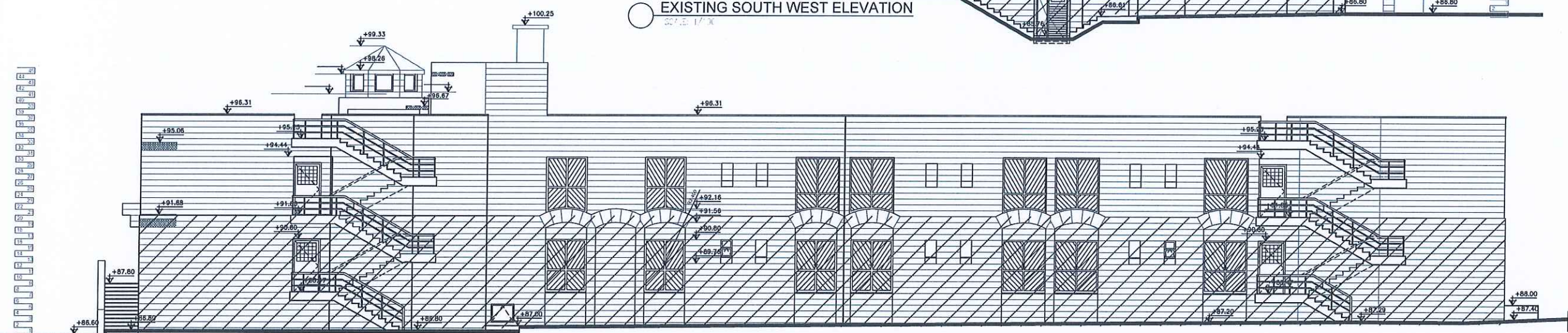
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تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

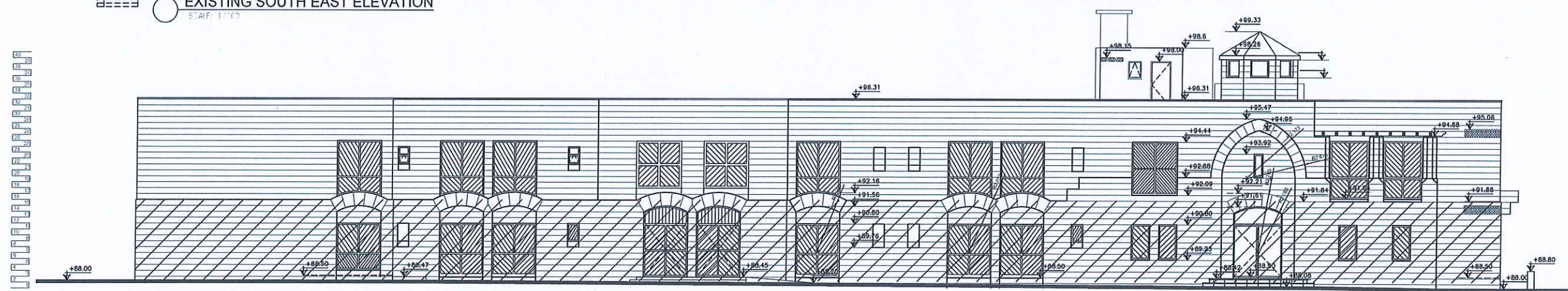
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SCALE: 1/100



EXISTING SOUTH WEST ELEVATION
SCALE: 1/100



EXISTING SOUTH EAST ELEVATION
SCALE: 1/100



EXISTING NORTH WEST ELEVATION
SCALE: 1/100

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

وزارة الصحة
لجنة شراء الأشغال
التاريخ : / /
مستشفى الأمير حمزة

PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

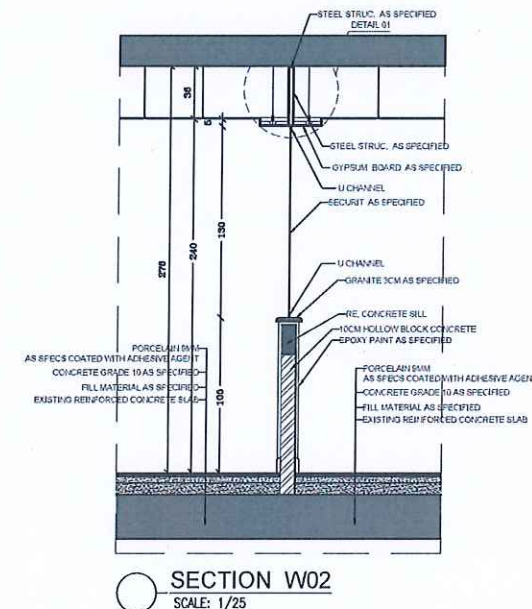
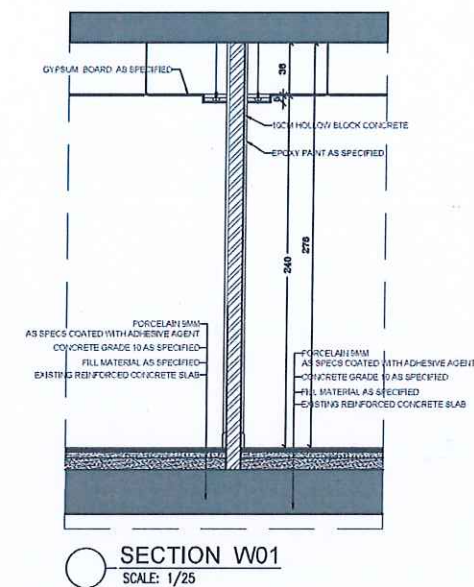
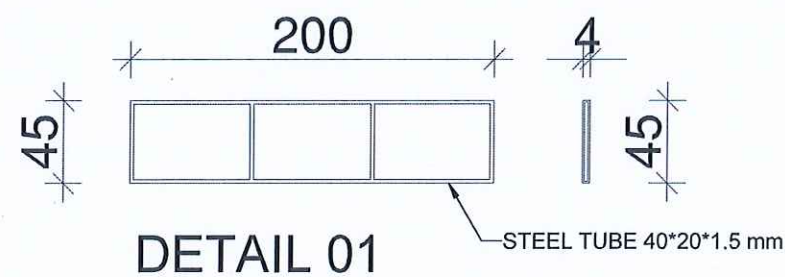
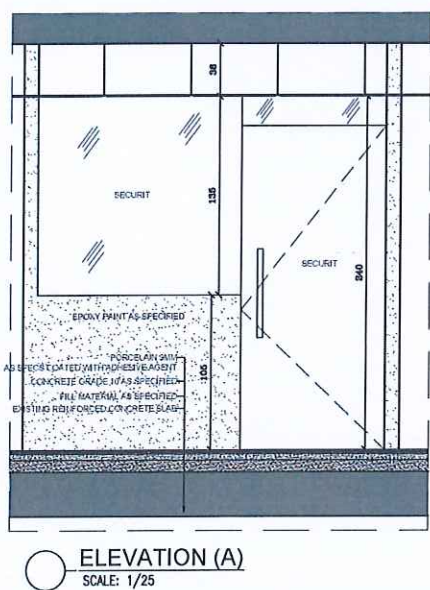
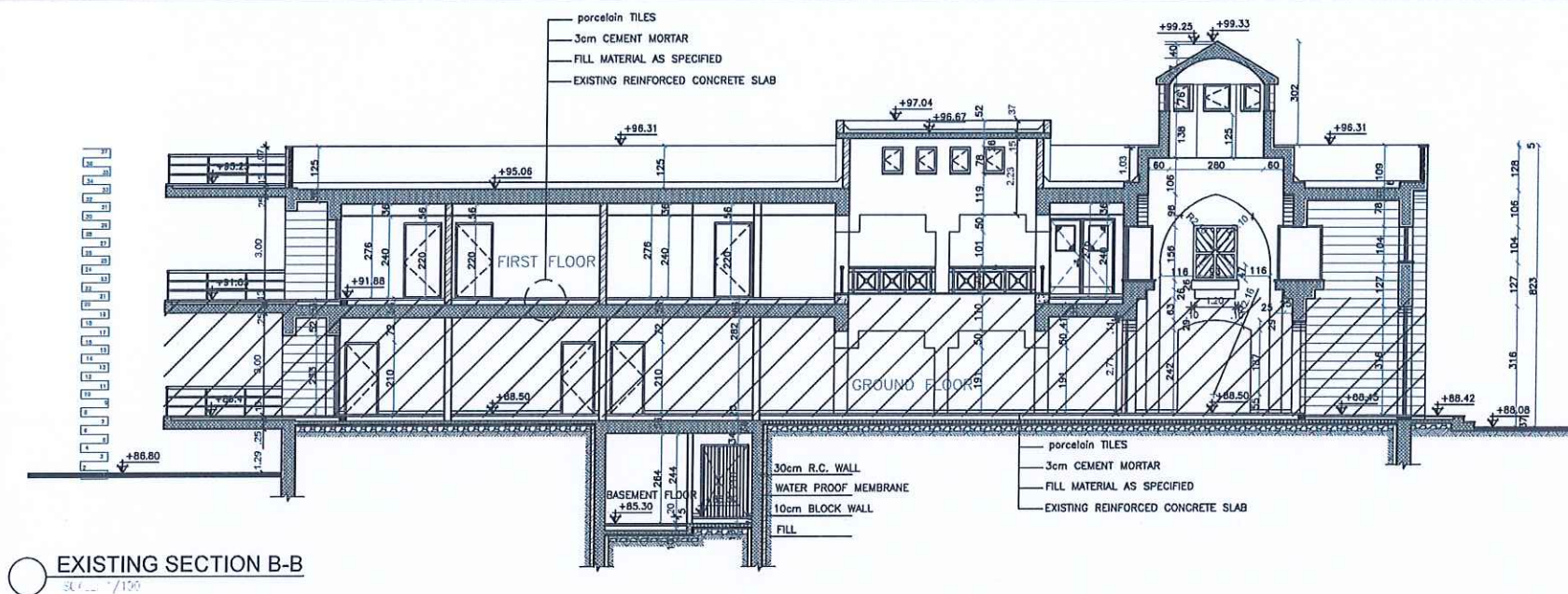
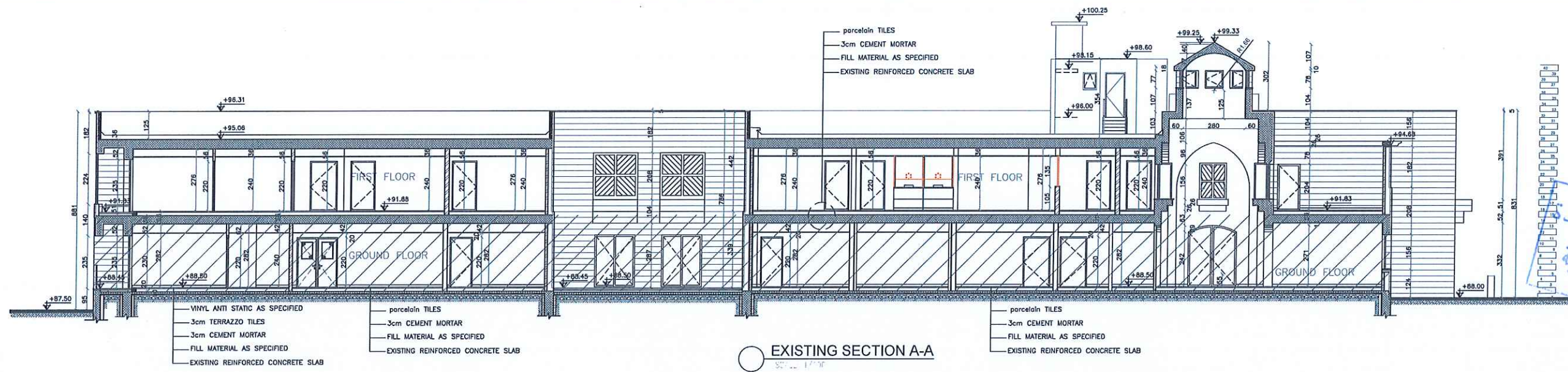
PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
ELEVATIONS

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CHECKED BY : R.F.S 196
DRAWN BY : Z.M.Z
SCALE: 1/100 SHEET SIZE: A1

FLYUT NO.	BASIN NO.	CAD FILE	
		SER_DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A201	A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



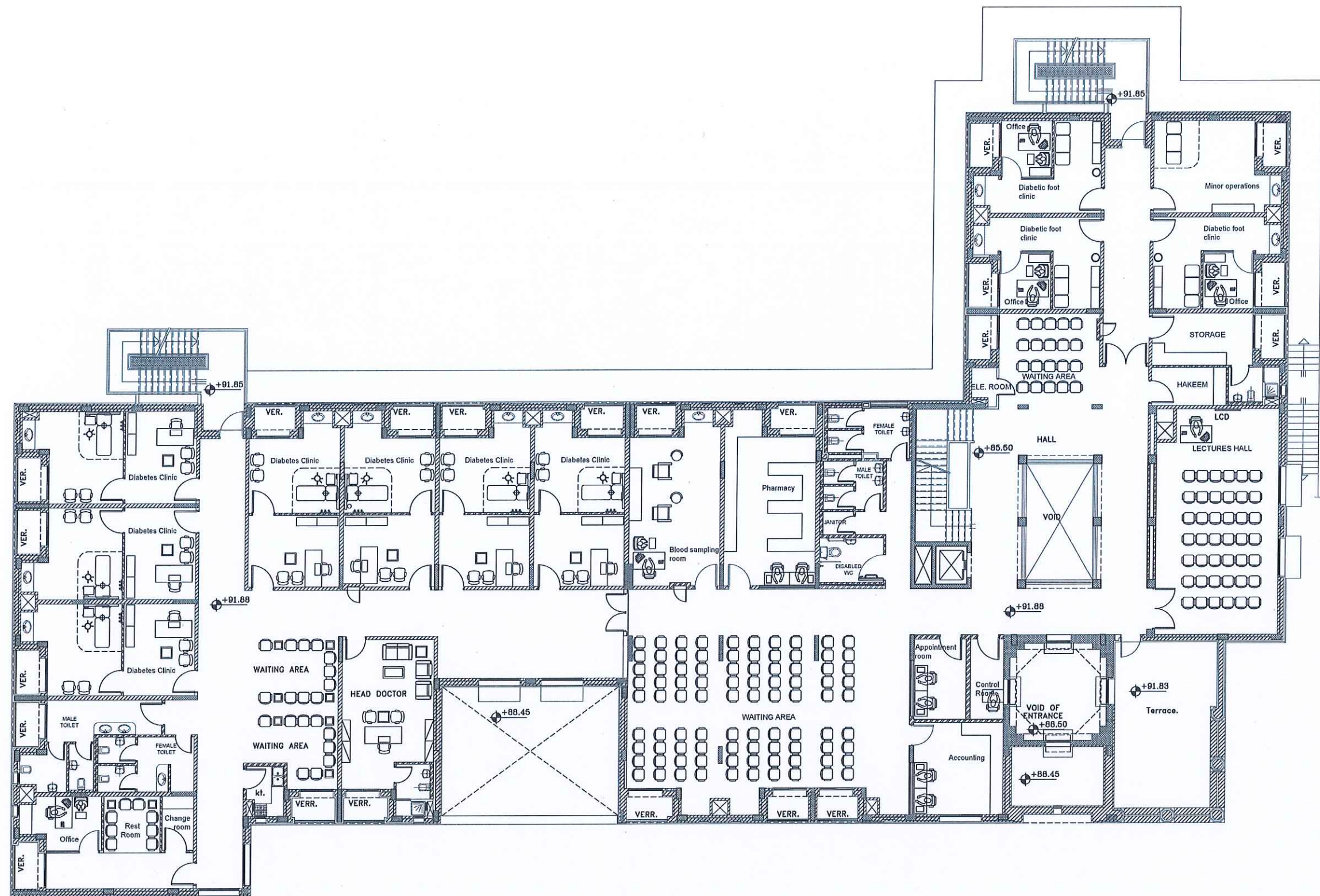
PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
SECTIONS &
WALL SECTIONS

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DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—
SCALE:	1/100	SHEET SIZE: A1
DATE	342-4	A251
REV.		A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO.	DATE	DESCRIPTION



PROJECT OWNER

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
FURNITURE GROUND
FLOOR PLAN

Prepared By :
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Consulting Engineers
AMMAN - JORDAN
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e-mail: ruqn@ruqn.com
Website: www.ruqn.com

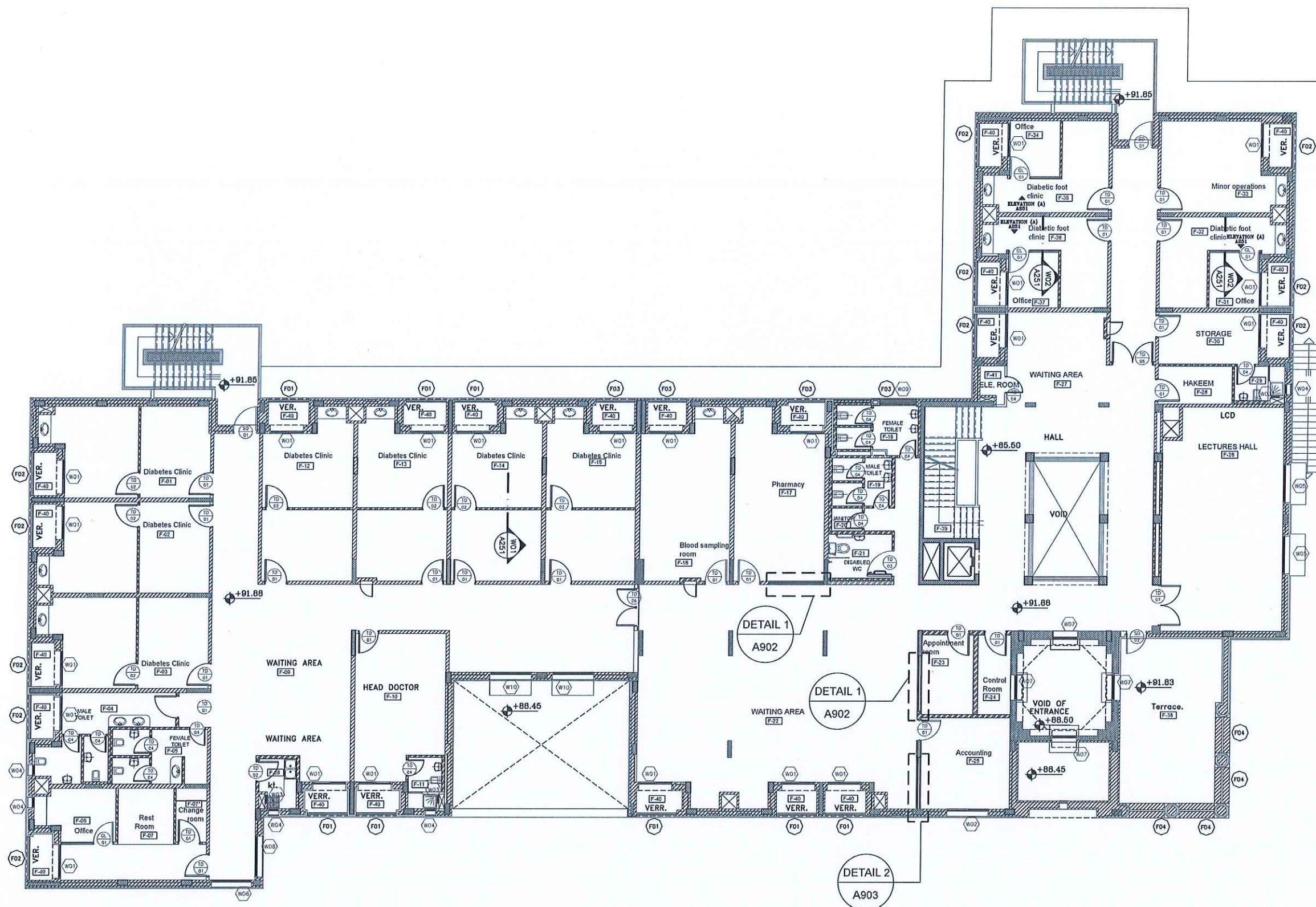
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CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

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ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A401	A

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المتقدمة
بموجب التعليمات الفنية السارية



REV. NO.	DATE	DESCRIPTION
KEY PLAN		

PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

TAG GROUND FLOOR
PLAN

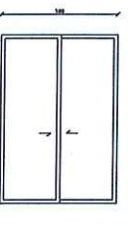
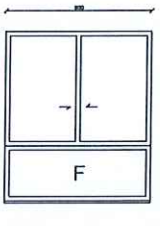
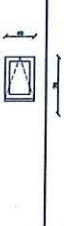
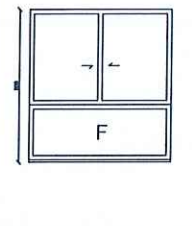
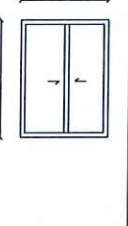
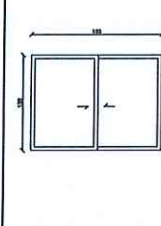
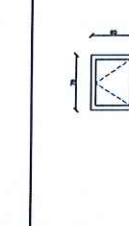
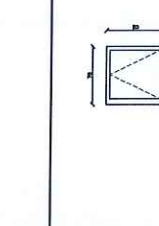
Prepared By :

 **RUQUN AL HANDASA**
Consulting Engineers
AMMAN - JORDAN

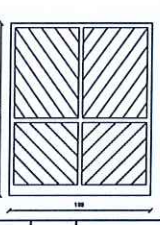
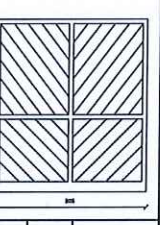
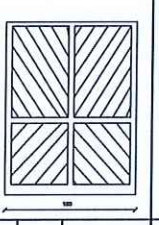
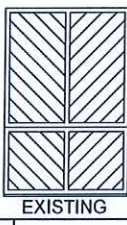
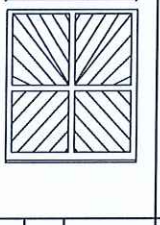
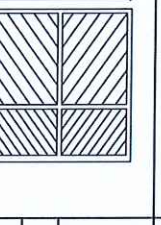
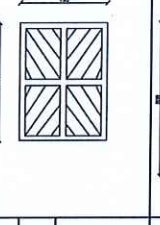
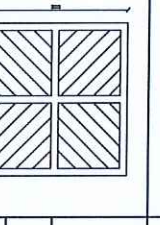
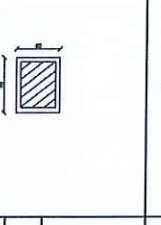
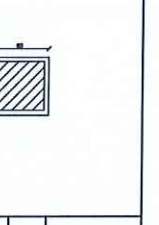
 TEL : 4653344 FAX : 4653342
e-mail: ruqn@ruqn.com
Website: www.ruqn.com

DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	198
DRAWN BY	Z.M.Z	—
SCALE: 1/100		SHEET SIZE: A1
PLOT NO.	BASIN NO.	GAD FILE
		SER_DC_X_REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A451
		REV.
		A

WINDOWS SCHEDULE

												
W01	W02	W03	W04	W05	W06	W07	W08	W09	W10	W11	W12	W13

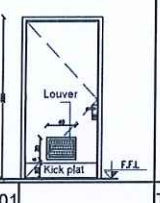
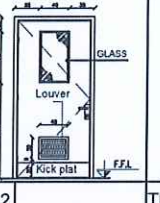
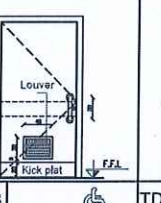
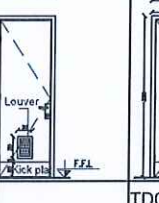
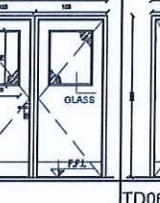
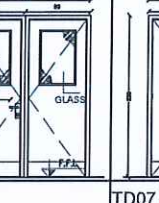
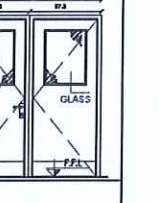
STEEL SCHEDULE

										
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8	6	4	4	1	2	2	4	2	12	8
EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING

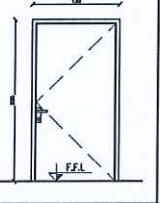
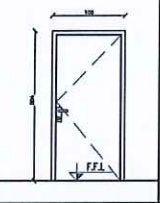
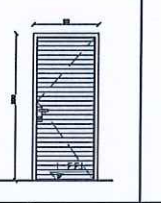
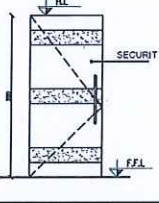
WINDOWS SCHEDULE

NO	DIMENSION W X H	CODE / MOVEMENT	MATERIAL	FINISH	GLAZING	QUANTITY	NOTE
W01	1.60X 2.30	SLIDING	ALUMINUM	POWDER COATED		22	REPAIR WINDOW / EXISTING
W02	2.00 X 2.34	SLIDING / FIXED	ALUMINUM	POWDER COATED		1	REPAIR WINDOW / EXISTING
W03	0.40 X 0.60	HINGED	ALUMINUM	POWDER COATED		3	REPAIR WINDOW / EXISTING
W04	0.50 X 0.78	HINGED / FIXED	ALUMINUM	POWDER COATED		5	REPAIR WINDOW / EXISTING
W05	1.80 X 2.08	SLIDING	ALUMINUM	POWDER COATED		2	REPAIR WINDOW / EXISTING
W06	1.95 X 2.08	SLIDING / FIXED	ALUMINUM	POWDER COATED		2	REPAIR WINDOW / EXISTING
W07	1.20 X 1.60	SLIDING	ALUMINUM	POWDER COATED		4	REPAIR WINDOW / EXISTING
W08	0.40 X 1.04	FIXED	ALUMINUM	POWDER COATED		1	REPAIR WINDOW / EXISTING
W09	1.80 X 1.30	SLIDING	ALUMINUM	POWDER COATED		1	NEW
W10	2.00X 2.08	SLIDING	ALUMINUM	POWDER COATED		2	REPAIR WINDOW
W11	0.60X 0.78	LOUVER	ALUMINUM	POWDER COATED		3	REPAIR WINDOW LOUVER
W12	0.60X 0.78	HINGED	ALUMINUM	POWDER COATED		12	REPAIR WINDOW
W13	0.80X 0.78	HINGED	ALUMINUM	POWDER COATED		8	REPAIR WINDOW

DOORS SCHEDULE

						
TD01	TD02	TD03	TD04	TD05	TD06	TD07

STEEL DOORS SCHEDULE

			
SD01	SD02	SD03	GL01

DOORS SCHEDULE

NO	STRUCTURAL OPENING	DOOR LEAF DIMENSION	TYPE	No.OF LEAVES	MATERIAL	FINISH	DOOR HANDLE	No.OF HINGES	QUANTITY	NOTE
TD01	1.10X 2.20	1.00X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	22	NEW WITH KICK PLAT & (louver)
TD02	1.10X 2.20	1.00X 2.15	HINGED	SINGLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	8	NEW WITH KICK PLAT & (louver)
TD03	1.20X 2.20	1.10X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	1	NEW WITH KICK PLAT & (louver)
TD04	0.80 X 2.20	0.70 X 2.15	HINGED	SINGLE	TIMBER	LAMINATE	LEVER HAND	3	15	NEW WITH KICK PLAT & (louver)
TD05	2.00X 2.20	1.90X 2.15	HINGED	DOUBLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	1	NEW WITH KICK PLAT
TD06	1.80 X 2.20	1.70 X 2.15	HINGED	DOUBLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	1	NEW WITH KICK PLAT
TD07	1.95X 2.20	1.85X 2.15	HINGED	DOUBLE	TIMBER & GLASS	LAMINATE	LEVER HAND	3	1	NEW WITH KICK PLAT

STEEL DOORS SCHEDULE

NO	STRUCTURAL OPENING	DOOR LEAF DIMENSION	TYPE	No.OF LEAVES	MATERIAL	FINISH	DOOR HANDLE	No.OF HINGES	QUANTITY	NOTE
SD01	1.20X 2.20	1.10X 2.15	HINGED	SINGLE	STEEL	THERMAL	LEVER HAND	3	2	Repair THE EXISTING
SD02	1.00X 2.04	0.90X 2.00	HINGED	SINGLE	STEEL	THERMAL	LEVER HAND	3	2	
SD03	0.90X 2.00	0.80X 1.95	HINGED	SINGLE	STEEL LOVER	THERMAL	LEVER HAND	3	1	

SECURIT DOORS SCHEDULE

NO	STRUCTURAL OPENING	TYPE	No.OF LEAVES	MATERIAL	FINISH	DOOR HANDLE	No.OF HINGES	QUANTITY	NOTE
GL01	1.00X 2.20	HINGED	SINGLE	SECURIT	CLEAR GLASS	LEVER HAND	3	4	NEW

NOTES :

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER :

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

DOORS,WINDOWS
& FINISHES
SCHEDULES

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DESIGNED BY	F.I.A	0460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—
SCALE: 1/100 SHEET SIZE: A1		
PLUT NO.	BASH NO.	CAP FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A452
REV.		
		A

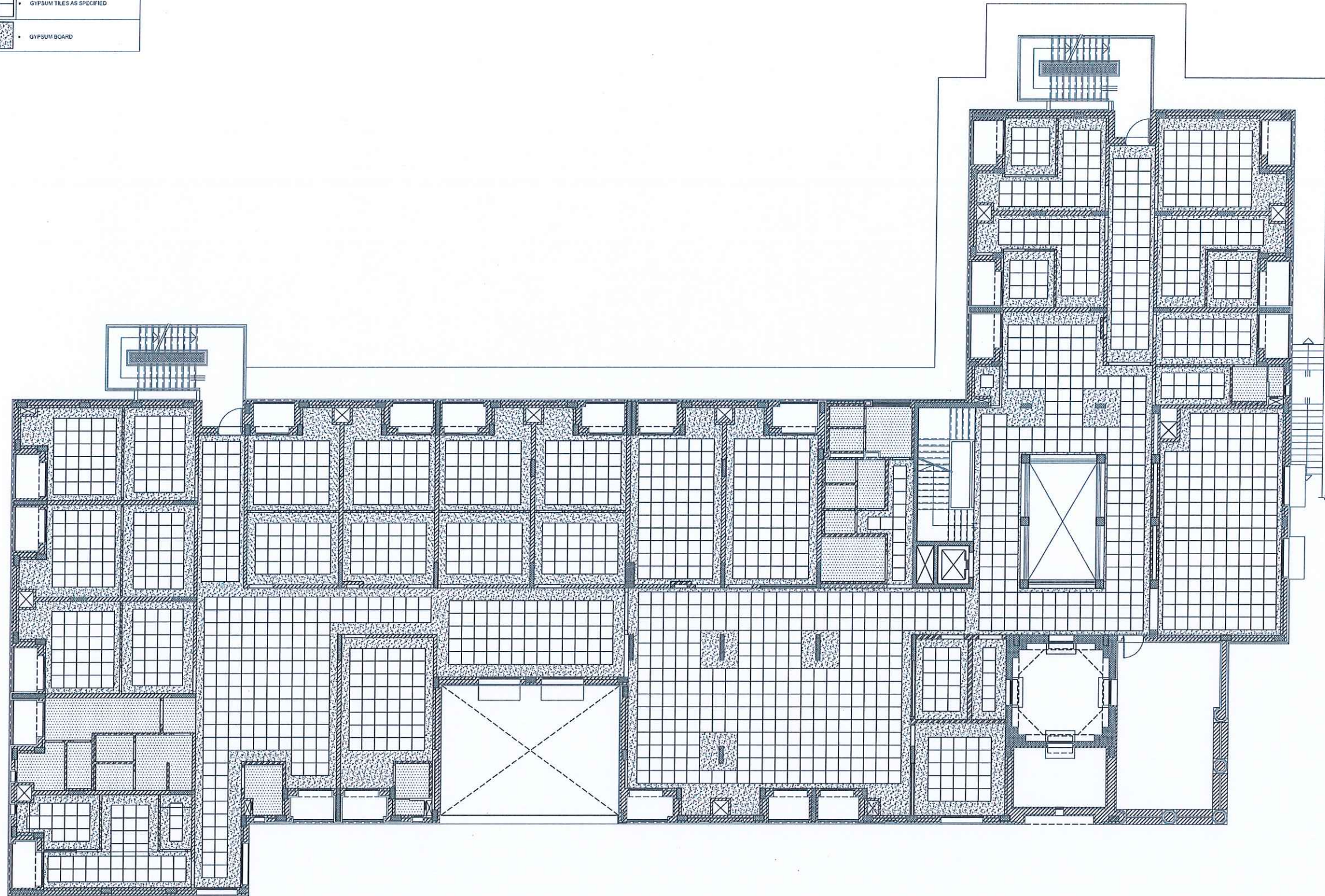
MATERIALS

	• GYPSUM BOARD WATER RESISTANT
	• GYPSUM TILES AS SPECIFIED
	• GYPSUM BOARD

NOTES :

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

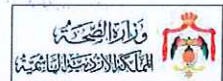
تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



REV. NO. DATE DESCRIPTION



PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

CEILING FIRST
FLOOR PLAN

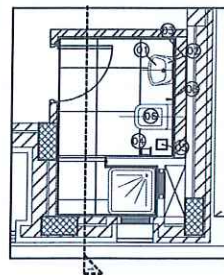
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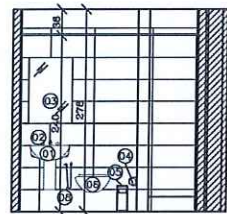
DESIGNED BY	F.I.A	6460
CHECKED BY	R.F.S	196
DRAWN BY	Z.M.Z	—

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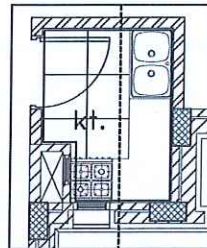
DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A601	A



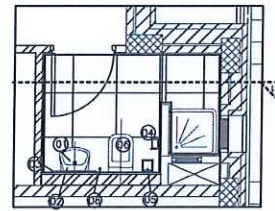
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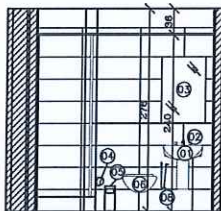
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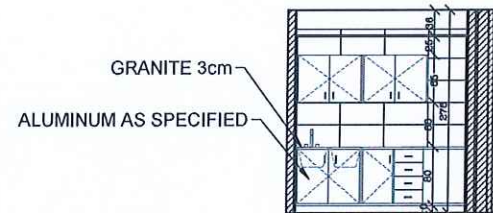
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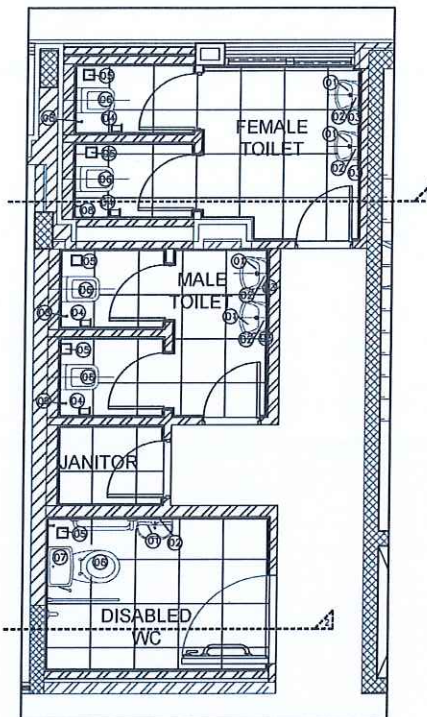
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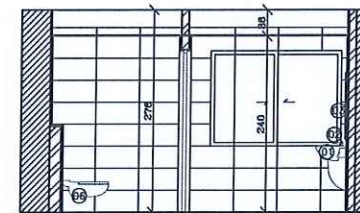
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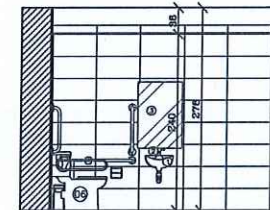
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SCALE: 1/50



PLAN
SCALE: 1/50



SECTION(1)
SCALE: 1/50

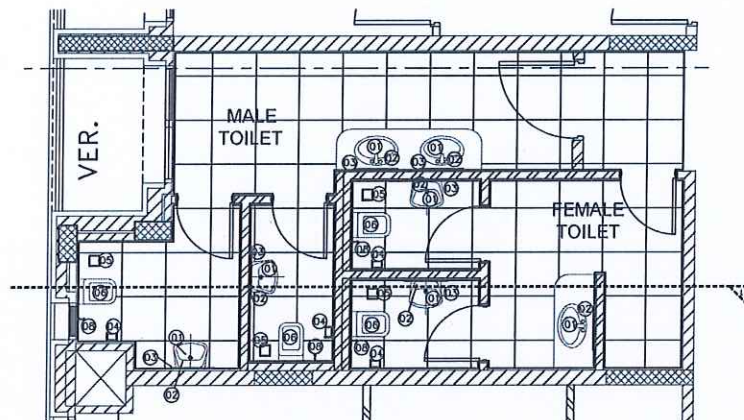


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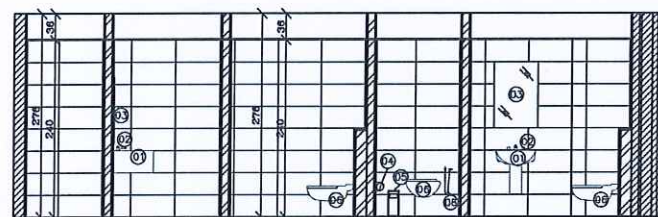
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- 02 LEVER MIXER FOR WASH BASIN
- 03 FRAMELESS MIRROR
- 04 TOILET PAPER DISPENSER
- 05 SWING-TOP WASTE RECEPTACLE
- 06 SQUAT LATRINE
- 07 WATER CISTERN
- 08 FLEXIBLE METAL HOSE WITH END VALVE TAP

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS



PLAN
SCALE: 1/50



SECTION(1)
SCALE: 1/50

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

TOILETS DETAILS

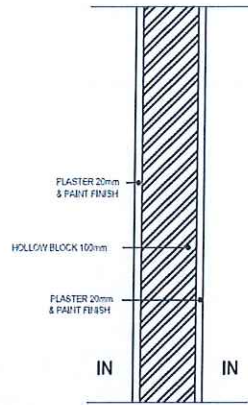
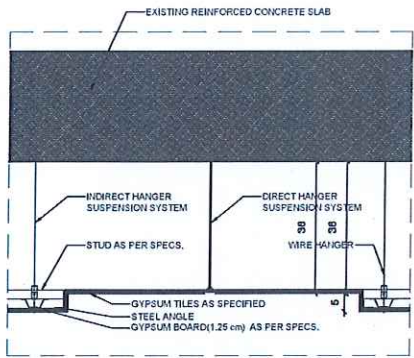
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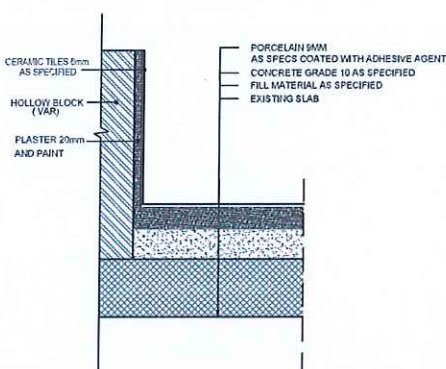
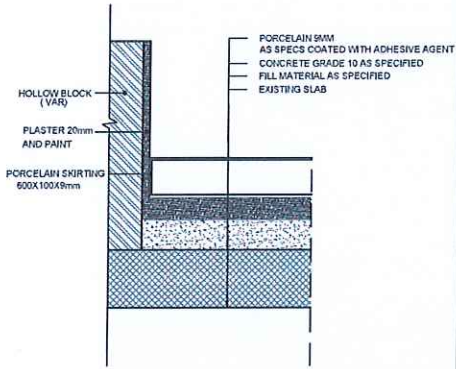
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LOT NO.	BASIN NO.	CAD FILE	
		SER,_DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A701	A



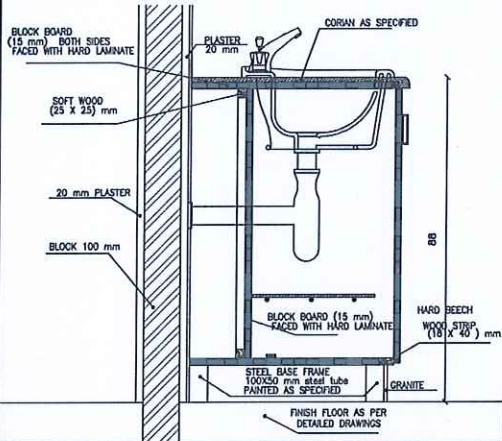
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SCALE: 1/10

VERTICAL SECTION IN BLOCK WALLS
SCALE: 1/10

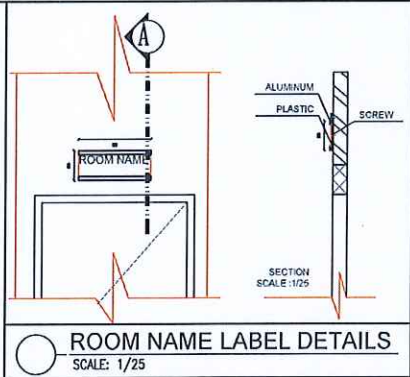


VERTICAL SECTION IN FLOOR
SCALE: 1/10 PORCELAIN TILES

VERTICAL SECTION IN FLOOR
SCALE: 1/10 TOILETS



VERTICAL SECTION IN COUNTER
SCALE: 1/10



ROOM NAME LABEL DETAILS
SCALE: 1/25

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

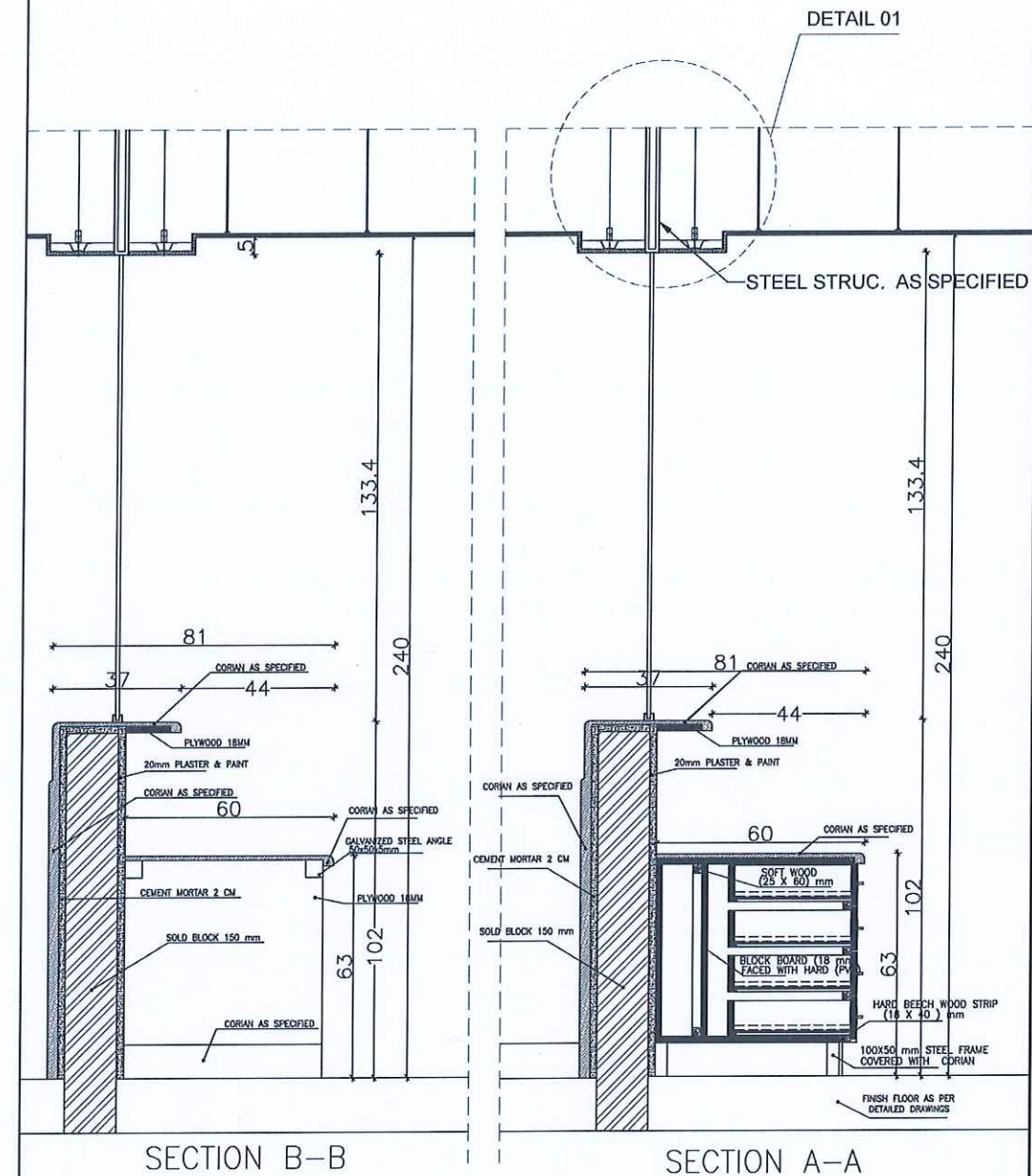
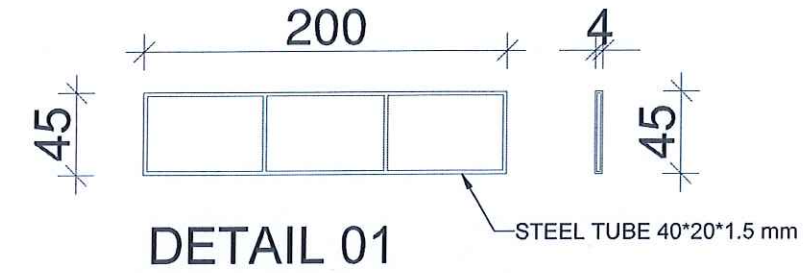
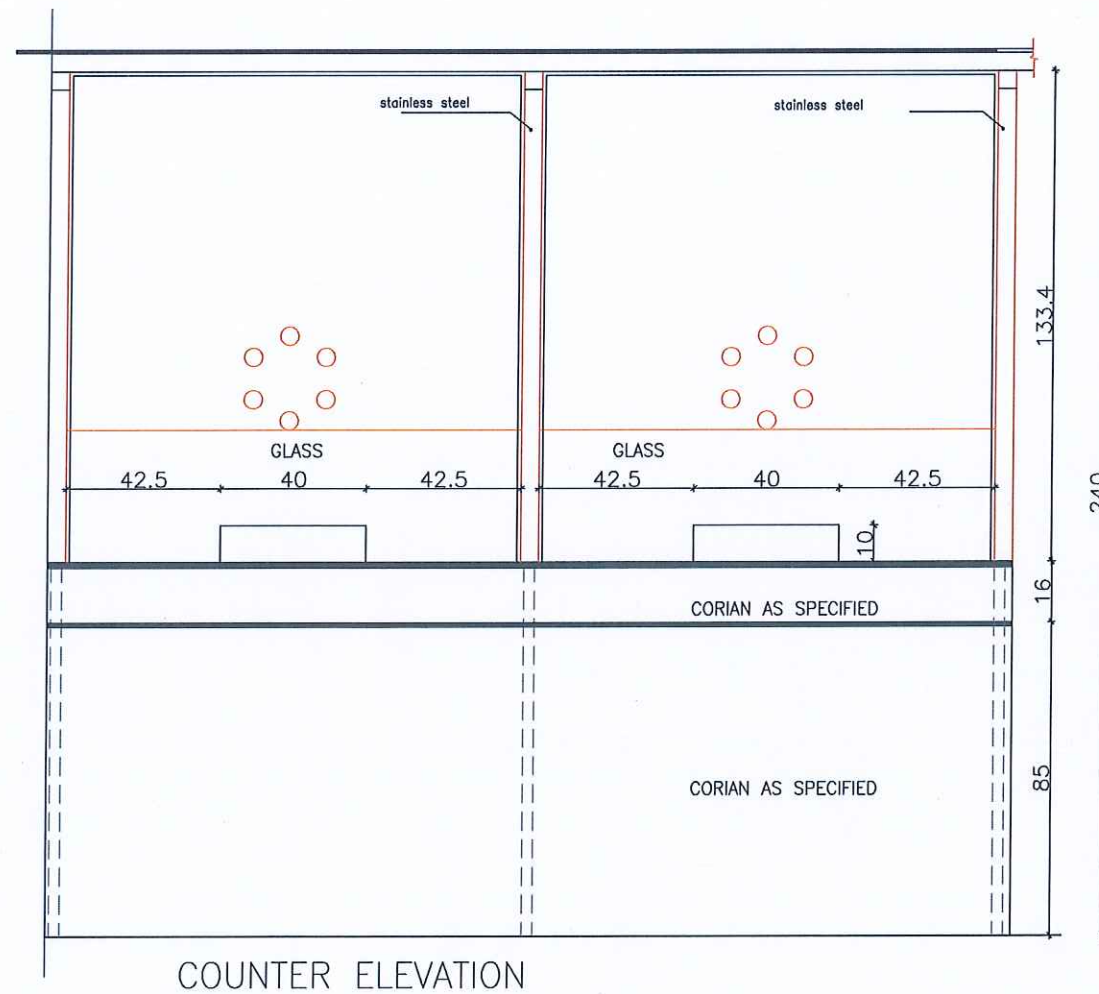
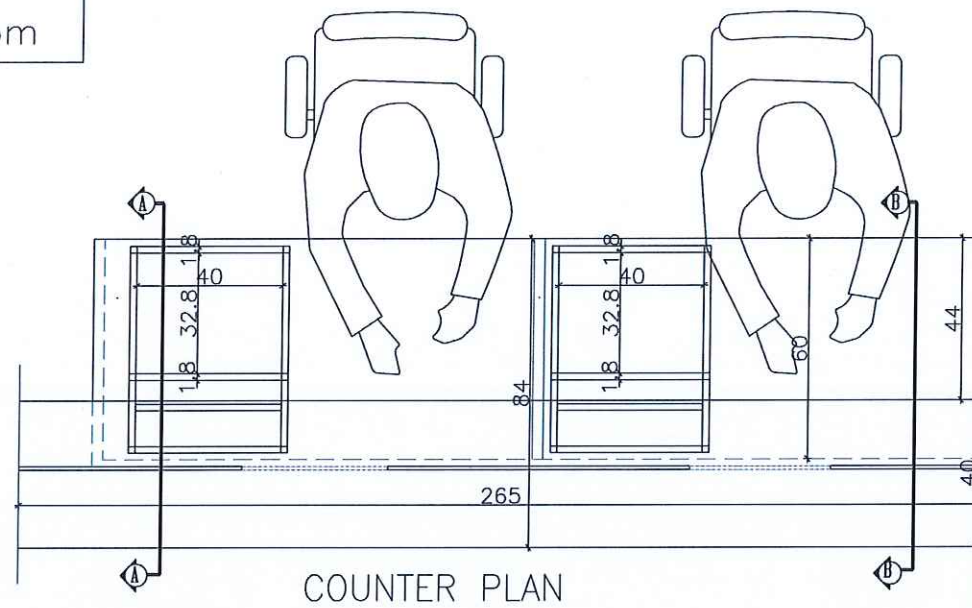
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

GENERAL DETAILS

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SCALE: 1/10	SHEET SIZE: A1	
PROJECT NO.	342-4	A901
ISSUE DATE	MAR.2024	

DETAIL(1)
Pharmacy,
appointment room



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المتقدمة
بموجب التعليمات الفنية السارية



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

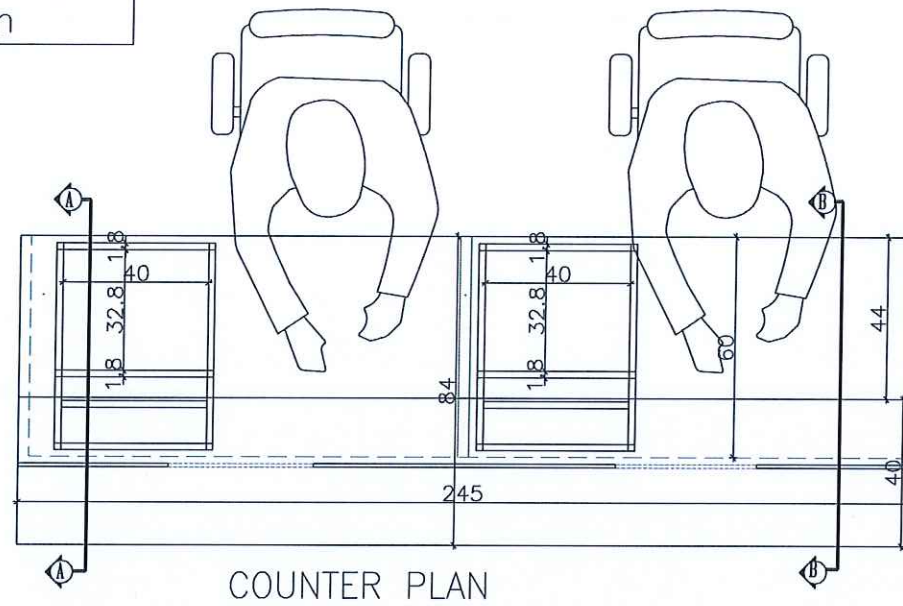
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

COUNTERS DETAILS

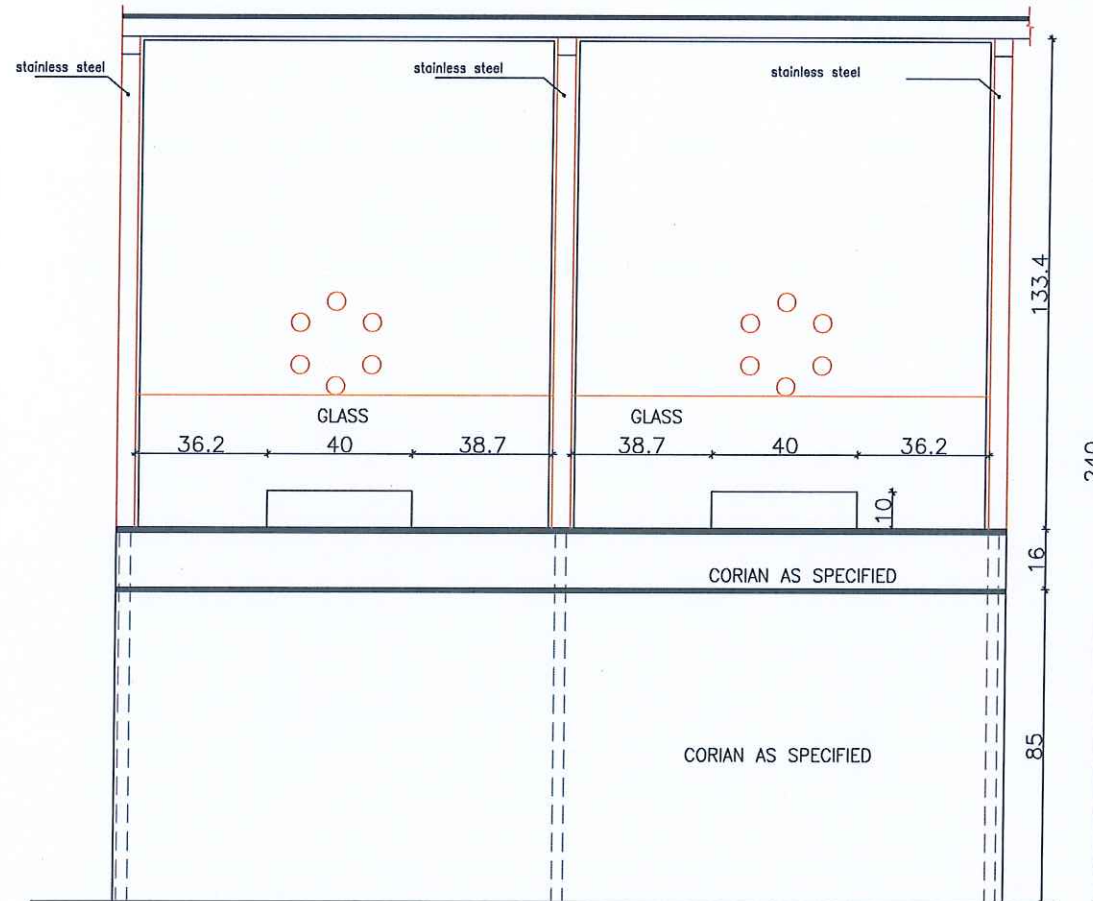
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SCALE: 1/10	SHEET SIZE: A1	
PLANT NO.	DRAWING NO.	CAD FILE
		SER_DC_XREF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	A902
		REV.
		A

DETAIL(2)
Accounting
room



COUNTER PLAN



COUNTER ELEVATION

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكميات المعتمدة
بموجب التعليمات الفنية السارية

REV. NO. DATE DESCRIPTION



PROJECT OWNER

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

COUNTERS DETAILS

Prepared By :

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SCALE: 1/10 SHEET SIZE: A1

DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	A903	A

LIGHTING FIXTURE SCHEDULE					
SYMBOL	FIX. REF.	VOLTS	WATTS	DESCRIPTION	NOTES
	F1	230	1X20W LED	DOWN LIGHT LUMINARIES BODY MADE OF ALUMINIUM ,THERMO PAINT 20W,LED LIGHT OPTIC : PMMA, CONTROL GEAR, EFFICIENCY=100LM/W TEMPERATURE COLOUR: 4000K, CRI>90 IP20 ,50000HRS	CEILING MOUNTING
	F2	230	1X20W LED	AS ABOVE BUT WITH EMERGENCY KIT (20)WATT -3 HOUR DURATION BATTERY : LITHIUM- ION	CEILING MOUNTING
	F3	230	20W LED	WALL LUMINARIES BODY MADE OF ALUMINIUM ,THERMO PAINT 20W,LED LIGHT,IP65 OPTIC : PMMA, CONTROL GEAR, EFFICIENCY =100LM/W TEMPERATURE COLOUR: 4000K, CRI>90 POWER FACTOR >0.96, 50000HRS	WALL MOUNTED
	F4	230	1X20W LED	DOWNLIGHT LED PANEL, MADE OF ALUMINIUM WITH THERMO PAINT COATING MODELS INCLUDED CONTROL GEAR AND LAMPS ,IP44 TEMPERATURE COLOUR: 4000K EFFICIENCY =100LM/W , CRI>90,50000HRS	RECESSED CEILING MOUNTED
	F5	230	1X20W LED	AS ABOVE BUT WITH EMERGENCY KIT (20)WATT -3 HOUR DURATION BATTERY : LITHIUM- ION	RECESSED CEILING MOUNTED
	F6	230	36W	RECESSED CEILING MOUNTED LED LIGHT FIXTURE 60cmX60m HOUSING AND FRAME: IN GALVANIZEDSTEEL SHEET AND FRAME ALUMINIUM LIGHT DIFFUSER :OPAL INTEGRATED DRIVER, TEMPERATURE COLOUR: 4000K CRI>90 IP20 LIGHT EFFICIENCY =100LM/W, 50000HRS	RECESSED CEILING MOUNTED
	F7	230	36W	AS ABOVE BUT WITH EMERGENCY KIT (20)WATT -3 HOUR DURATION BATTERY : LITHIUM- ION	RECESSED CEILING MOUNTED
	F8	230	1X20W LED	AS F2 BUT IP 56	CEILING MOUNTING
	F9	230	8W	WALL LED LUMINAIRE POWDER COATED STEEL BASS,SPECIAL MULTILAYER PRISMATI DIFFUSER COMBINING HIGH UV RESISTANCE PMMA COVER IP40 TEMPERATURE COLOUR: 4000K LIGHT EFFICIENCY =100LM/W, 50000HRS , CRI>90	WALL MOUNTED
	F10	230	120W	LED FLOOD LIGHT FIXTURE IP66,IK08 BODY: IN DIE-CAST ALUMINIUM WITH COOLING FAN ,POWDER COATED WITH GRAPHITE GRAY POLYESTER RESIN RESISTANT TO CORROSION AND SALINE ENVIRONMENTS DIFFUSER :5MM THICK TEMPERD GLASS EQUIPMENT: COMPLETE WITH MOUNTING BRACKET, SILICON RUBBER GASKET CRI>90 LIGHT EFFICIENCY=100LM/W, 50000HRS TEMPERATURE COLOUR: 4000K	WALL MOUNTED
	EX	230	8W	MAINTAINED NON MAINTAINED, EMERGENCY EXIT SIGN. EPOXY WHIT COATED STEEL BODY MADE OF STEEL, COMPLETE WITH MAINS PLUG, LIGHT EMITTING DIODE, 8 W LED LAMP, GEAR AND EMERGENCY KIT, FULLY WIRED FOR 3 HOURS DURATION BATTERIES,NON MAINTAINED SINGLE FACE, WITH OPAL DIFFUSER. LETTERING: ENGLISH AND ARABIC IN GREEN.	WALL MOUNTED
	EX1	230	8W	as above but double face	
	F11	230	26W	1X26W BULKHEAD WALL MOUNTING LUMINAIRE,CRI>90	WALL MOUNTED

LIGHTING SWITCH CONTROL LEGEND

SYMBOL	DESCRIPTION
	20 AMP. DP SWITCH WITH INDICATION LAMP.
	10 AMP. ONE GANG ONE-WAY SWITCH .
	DITTO, BUT TWO GANG WEATHER PROOF.
	DITTO, BUT TWO GANG
	10 AMP. ONE GANG -TWO WAY SWITCH (REMOTE SWITCH)
	10 AMP. TWO GANG- TWO WAY SWITCH (REMOTE SWITCH)
	10 AMP. INTERMEDIATE SWITCH
	DIMMER SWITCH
	GRID SWITCH

FIRE ALARM SYSTEM LEGEND

SYMBOL	DESCRIPTION
	CONVENTIONAL SMOKE DETECTOR
	CONVENTIONAL HEAT DETECTOR
	FIRE ALARM BELL
	CONVENTIONAL GLASS CALL POINT INDOOR TYPE
	STROBE/SOUNDER .WITH FLASHER
	STROBE/SOUNDER BUT WEATHER PROOF .WITH FLASHER
	SHORT CIRCUIT PROTECTION
	FIRE ALARM CONTROL PANEL
	REPEATER FIRE ALARM CONTROL PANEL
	AUTO DIALER
	CONTROL MODULE
	MONITOR MODULE

POWER SYSTEM LEGEND

SYMBOL	DESCRIPTION
	TRANSFORMER
	MAIN DISTRIBUTION BOARD (M.D.B.)
	SUB MAIN DISTRIBUTION BOARD (S.M.D.B.)
	EMERGENCY DISTRIBUTION BOARD (E.M.D.B.)
	MOTOR CONTROL CENTER -(MCC)
	KILO-WATT HOUR METER
	DISTRIBUTION BOARD (D.B.) RECESSED TYPE UNLESS OTHERWISE NOTED .
	MOLDED CASE CIRCUIT BREAKER (MCCB)-SINGLE PHASE
	MOLDED CASE CIRCUIT BREAKER (MCCB)-THREE PHASE
	MINIATURE CIRCUIT BREAKER (MCB)-SINGLE PHASE
	MINIATURE CIRCUIT BREAKER (MCB)-THREE PHASE
	20 AMP. DP SWITCH WITH INDICATION LAMP.
	16 AMP THREE PHASE INDUSTRIAL SOCKET OUTLET 5 KW
	16 AMP SINGLE PHASE INDUSTRIAL SOCKET OUTLET 2 KW
	13 AMP. SINGLE PHASE SWITCH POWER OUTLET,IP 20
	13 AMP DUPLEX .SINGLE PHASE SOCKET OUTLET, IP 20
	15 AMP single WATER PROOF.SINGLE PHASE SOCKET OUTLET,IP66
	15 AMP double WATER PROOF.SINGLE PHASE SOCKET OUTLET,IP66
	ELECTRICAL POWER POINT
	THREE PHASE DISCONNECTING SWITCH OR ENCLOSED CIRCUIT BREAKER, RATING AS SHOWN.
	SINGLE PHASE DISCONNECTING SWITCH (WEATHER-PROOF OR ENCLOSED CIRCUIT BREAKER, RATING AS SHOWN.
	THREE PHASE DISCONNECTING SWITCH (WEATHER-PROOF OR ENCLOSED CIRCUIT BREAKER, RATING AS SHOWN.
	13AMP,1PH SWITCHED SOCKET ,IP20 CEILING/WALL MOUNTED FOR A-C
	ELECTRICAL MANHOLE
	LOW CURRENT MANHOLE
	15 AMP. SINGLE PHASE DOUBLE SOCKET OUTLET FIXED ON FLOOR Ip 66
	13 AMP DUPLEX .SINGLE PHASE SOCKET OUTLET, IP 20 WITH UPS AND PILOT LAMP
	HAKEEM DATA OUTLET , WALL MOUNTED
	13 AMP. SINGLE PHASE SWITCH POWER OUTLET,IP 20 COUNTER MOUNTED
	13 AMP DUPLEX .SINGLE PHASE SOCKET OUTLET, IP 20 COUNTER MOUNTED

CCTV SYSTEM LEGEND

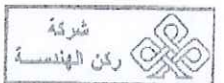
SYMBOL	DESCRIPTION
	COLUMN 3M FOR OUTDOOR CAMERA
	Coaxial Cable RG59
	IP Indoor Fixed ZOOM Camera
	IP Outdoor Fixed CAMERA IP66
	UNINTERRUPTED POWER SUPPLY
	TV SCREEN
	NETWORK VIDEO RECORDER

LOW CURRENT SYS LEGEND

SYMBOL	DESCRIPTION
	MAIN DISTRIBUTION FRAME (M.D.F.)
	D.C. DATA CABINET
	RJ45,WALL MOUNTED DATA OUTLETS/ COMPUTERS
	DATA OUTLETS/ COMPUTERS CEILING MOUNTED
	RJ11, WALL MOUNTED TELEPHONE OUTLET
	TV SOCKET OUTLET
	TELEVISION /SATELLITE BOX
	TELEPHONE JUNCTION BOX
	HAKEEM DATA OUTLETS , WALL MOUNTED

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المتقدمة بموجب التعليمات الفنية السارية



REV. NO. DATE DESCRIPTION



PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
BLOOD BANK AND VARIOUS CLINICS RENOVATION

DRAWING NAME :
LEGEND

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DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100
SCALE: 1/100		SHEET SIZE: A1
PLOT NO.	BASIN NO.	CAD FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-100
		A

المبنى المراد تزويده بالتيار الكهربائي
MEDICINE STORE BUILDING

المبنى المراد تزويده بالتيار الكهربائي

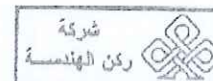
BLOOD BANK & DIABETES
DEPARTMENT BUILDING

PROPOSED TRANSFORMER LOCATION

NOTES :

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



REV. NO. DATE DESCRIPTION



PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

SITE PLAN

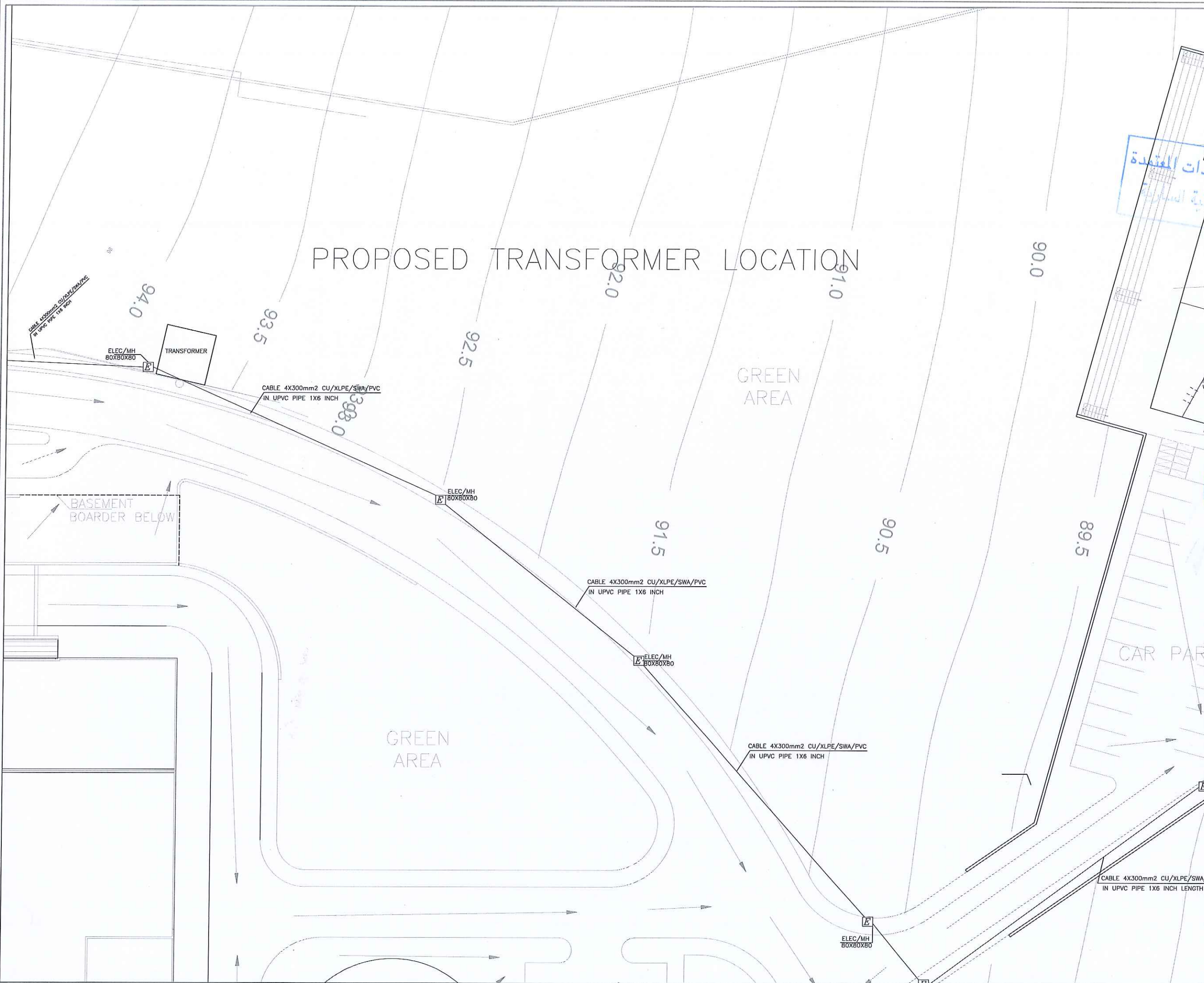
Prepared By :

RUQN AL HANDASA
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e-mail: ruqn@ruqn.com
Website: www.ruqn.com

DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: 1/5 SHEET SIZE: A1

PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X_REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-101
		REV. A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعمدة
بموجب التعليمات الفنية السارية

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التلف
مستشفى الأمير حمزة

PROJECT OWNER :

وزارة الصحة
المستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

SITE PLAN

Prepared By :

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DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100
SCALE:	1/2	SHEET SIZE: A1
PLOT NO.	BASIN NO.	CAD FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-102
		A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة: التقييمات الفنية السارية

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION
فازة الصخرة
لجنة شراء الأشغال
التاريخ 1 / 1
مستشفى الأمير حمزة

PROJECT OWNER :

وزارة الصحة
المستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

LIGHTING SYSTEM
GROUND FLOOR

Prepared By :

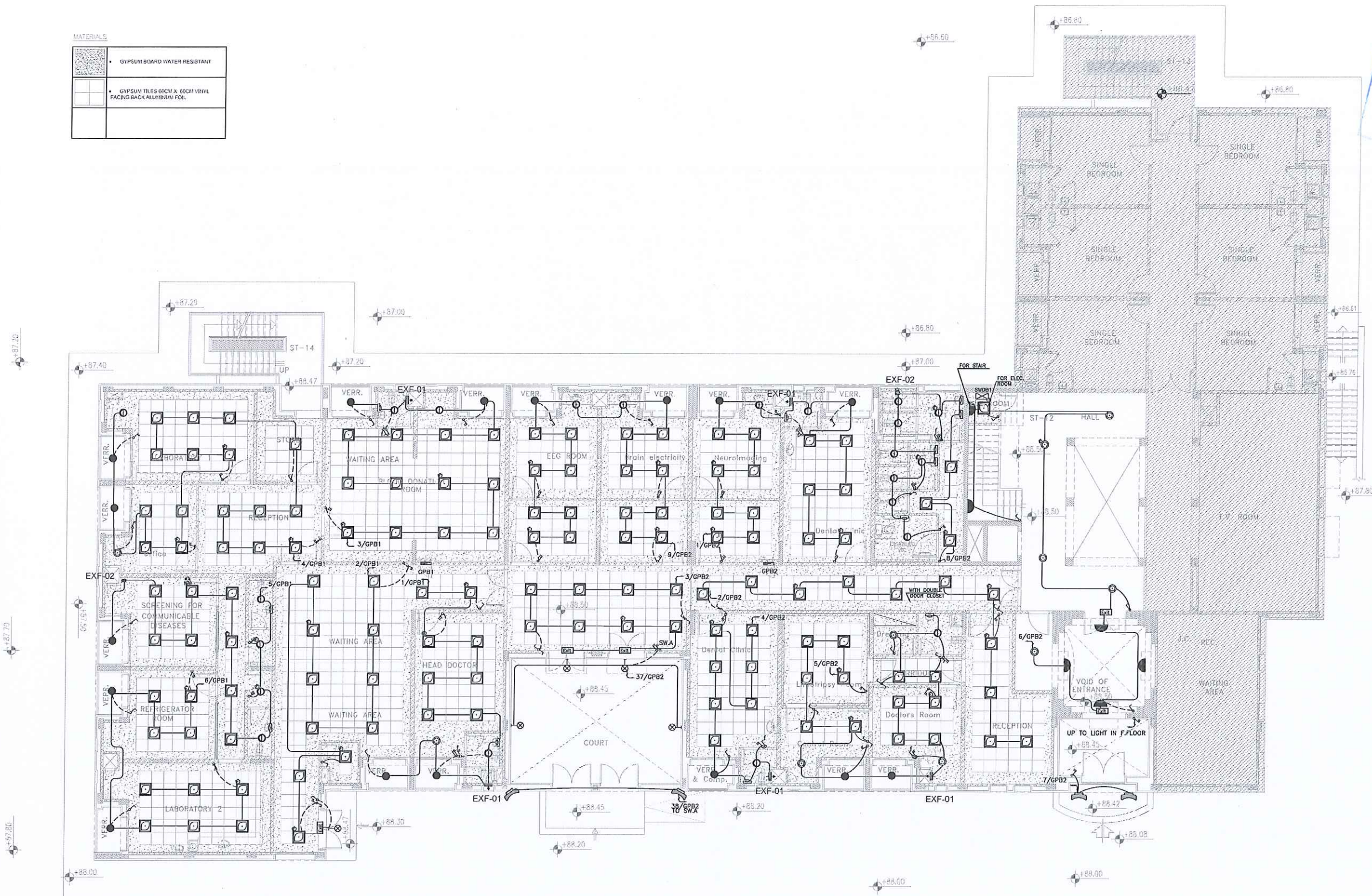
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Website: www.ruqn.com

DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1

PLOT NO. BASIN NO. CAD FILE
SER_DC_X_REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 E-200 A

MATERIALS	
	GYPSUM BOARD WATER RESISTANT
	GYPSUM TILES 60CM X 60CM VINYL FACING BACK ALUMINUM FOIL



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

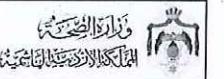
تم التصميم حسب الكودات المعتمدة
مراجعة تخطيطات المبنى

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

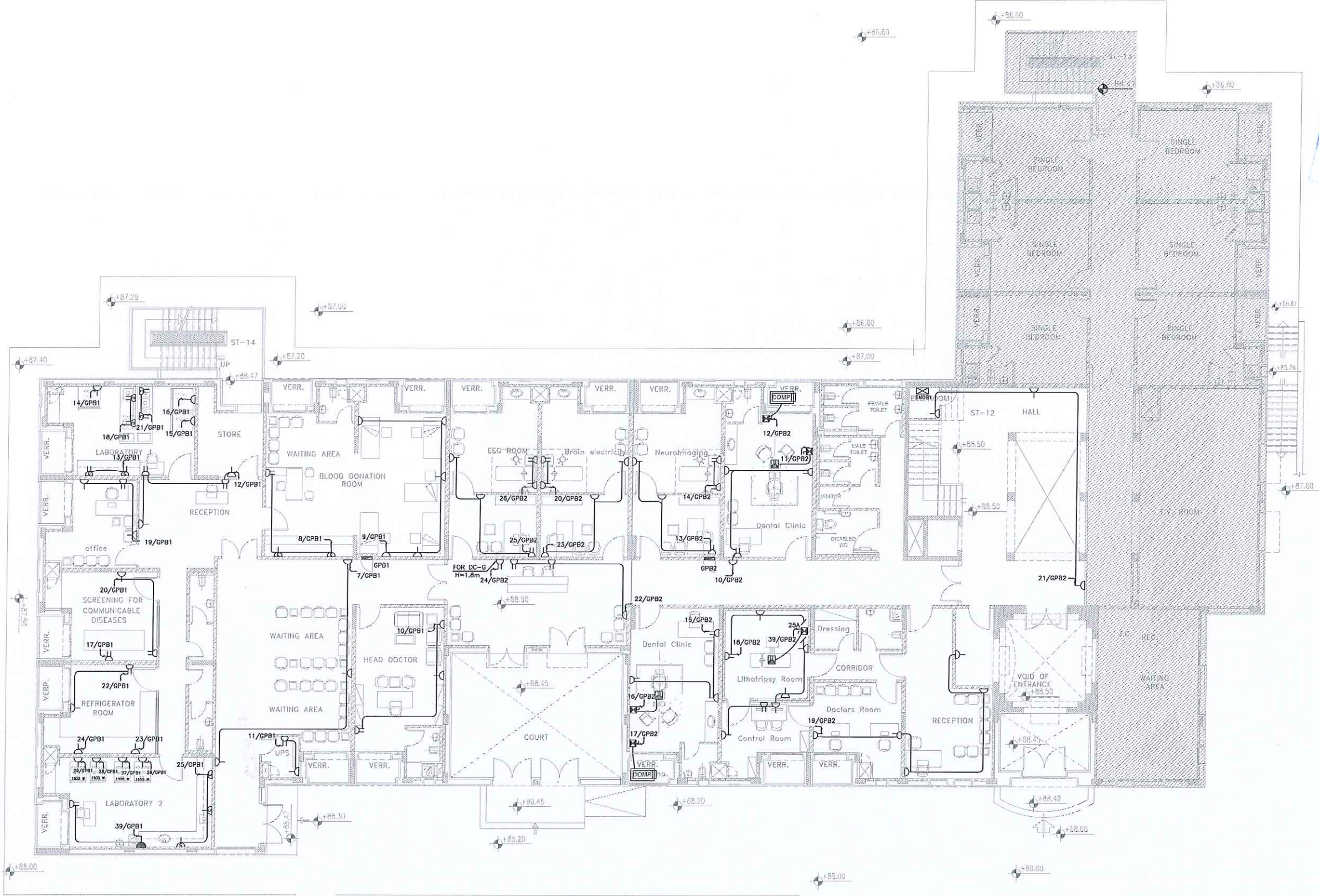
DRAWING NAME :

POWER SYSTEM
GROUND FLOOR

Prepared By :

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Website: www.ruqn.com

DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100
SCALE: 1/100		SHEET SIZE: A1
PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-300
		REV. A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية

شركة
ركن الهندسة

وزارة الصحة
لجنة شراء الأشغال
التاريخ 1 /
مستشفى الأمير حمزة

PROJECT OWNER :

وزارة الصحة
السلطة العامة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

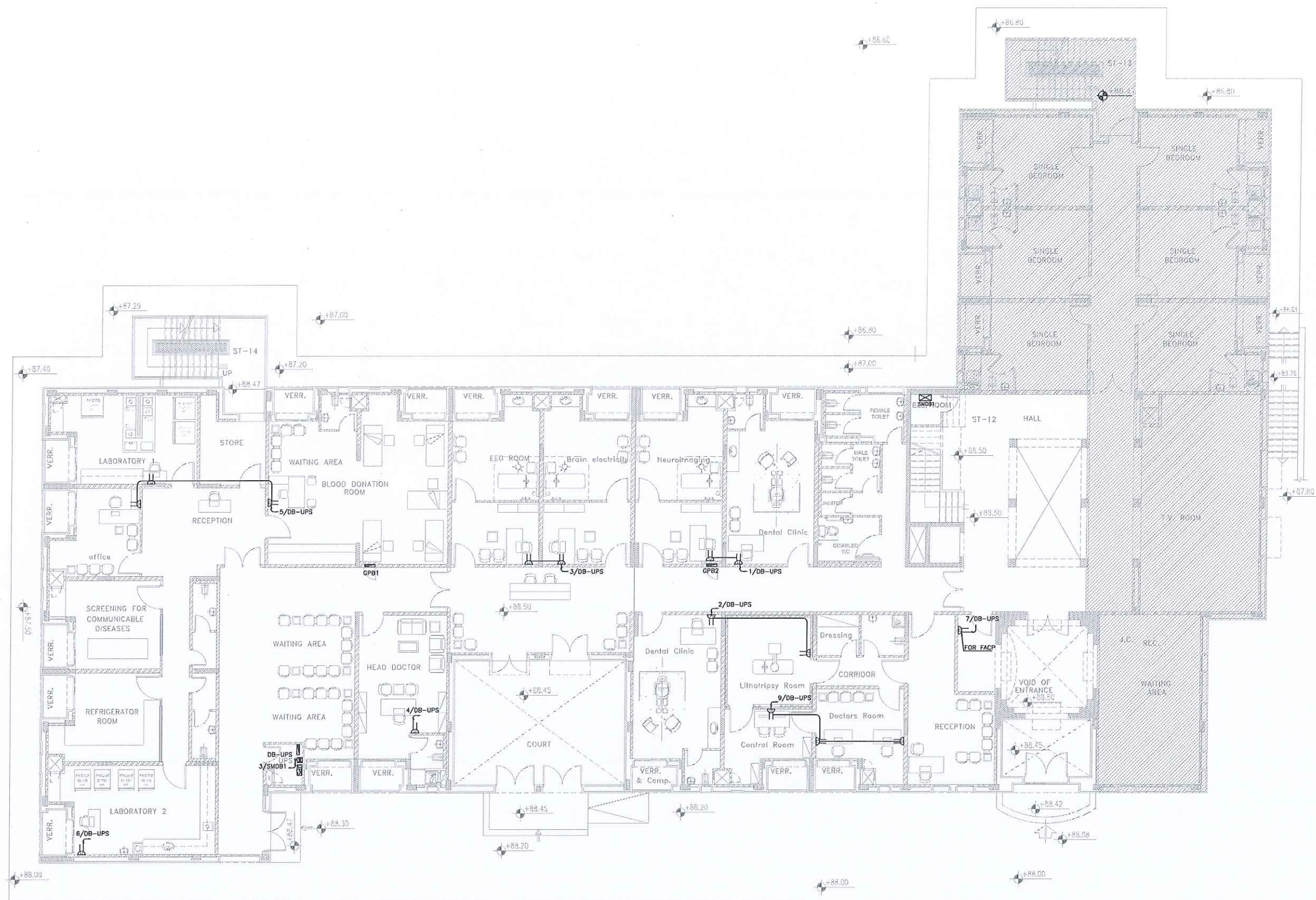
UPS SYSTEM
GROUND FLOOR

Prepared By :

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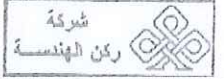
DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1
PLOT NO. BASH NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 E-301 A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
الجمعية الوطنية للمهندسين المعماريين
الاردنية



PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

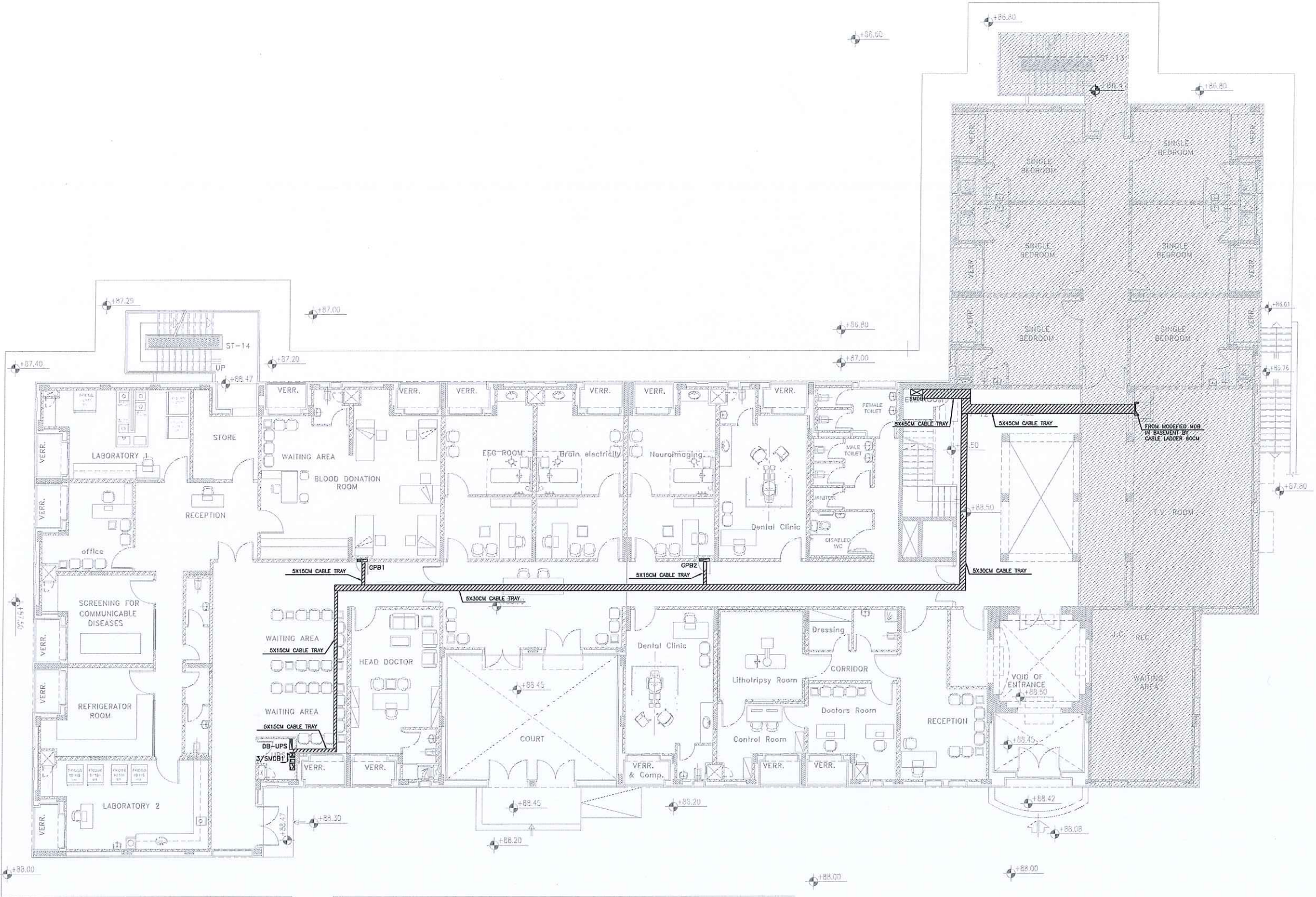
PROJECT NAME :
BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :
CABLE TRAY
GROUND FLOOR

Prepared By :
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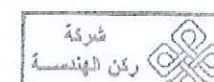
DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1
FLOT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 E-302 A



-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

التصميم حسب الكودات المقيدة



REV. NO.	DATE	DESCRIPTION
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PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :	
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BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

HVAC SYSTEM
BASEMENT FLOOR

Prepared By :



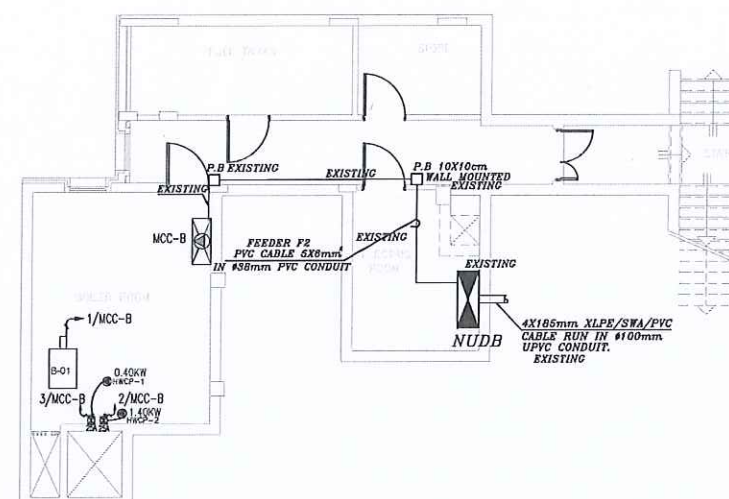
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DESIGNED BY	ENAS.J	50100
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DRAWN BY	ENAS.J	50100

SCALE: 1/100 SHEET SIZE: A1

PLOT NO.	HASTIN NO.	CAD FILE	
		SER._DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-3	E-400	A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التوجيهات الفنية الخاصة

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة

PROJECT OWNER :

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

HVAC SYSTEM
GROUND FLOOR

Prepared By :

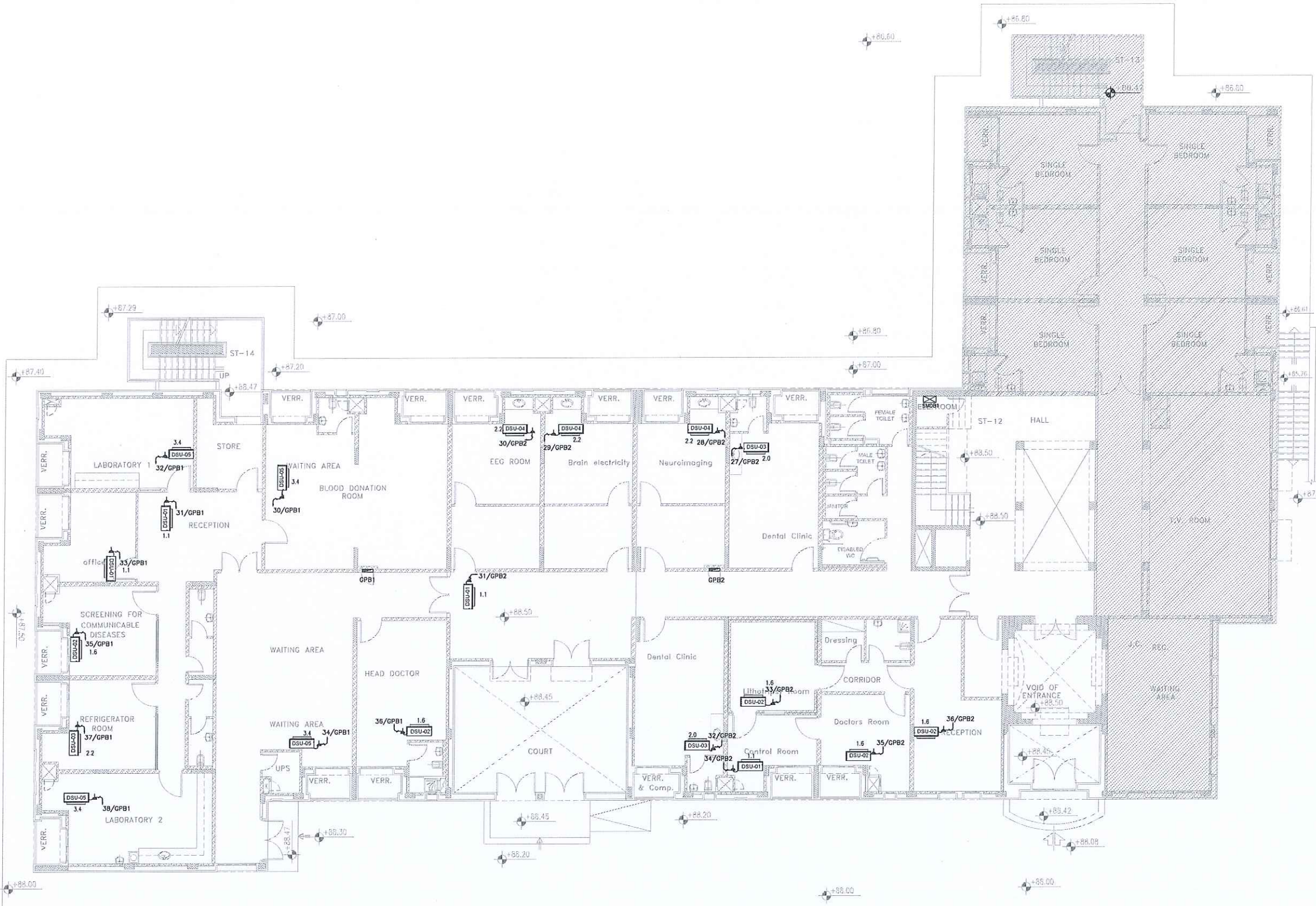
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DESIGNED BY ENAS.J 50100
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DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1

FLAT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342

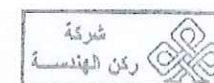
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 E-401 A



NOTES :

- ALL DIMENSIONS ARE IN CENTIMETERS
- ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة



REV. NO.	DATE	DESCRIPTION
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PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :	
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BLOOD BANK AND VARIOUS CLINICS RENOVATION

DRAWING NAME :

HVAC SYSTEM
ROOF FLOOR

Prepared By :



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DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100

SCALE: 1/100 SHEET SIZE: A1

PLOT NO.	BASIN NO.	CAD FILE
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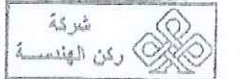
		SER. DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	
MAR.2024	342-3	E-402	

BOARD REF: GPB1 BOARD SIZE: 48 WAY TPNE LOCATION: GROUND FLOOR					CONTROLLED BY:100A MCCB CABLE SIZE: 4X25mm ² CU/XLPE/PVC +16mm ² CU/PVC FED FROM: SMD81				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	10	3X2.5	CU-PVC	LIGHTING	8+2+1	36+20+8	350		
2	10	3X2.5	CU-PVC	LIGHTING	11+1	36+20		420	
3	10	3X2.5	CU-PVC	LIGHTING	12+3+1	36+20+8			500
4	10	3X2.5	CU-PVC	LIGHTING	17+2	36+20	660		
5	10	3X2.5	CU-PVC	LIGHTING	5+8+2	20+36+8		404	
6	10	3X2.5	CU-PVC	LIGHTING	10+2	36+20			400
7	20	3X4	CU-PVC	SOCKETS	3	250	750		
8	20	3X4	CU-PVC	SOCKETS	2+1	250+500		1000	
9	20	3X4	CU-PVC	SOCKETS	5	250			1000
10	20	3X4	CU-PVC	SOCKETS	2+1	250+500	1000		
11	20	3X4	CU-PVC	SOCKETS	1+1	250+500		750	
12	20	3X4	CU-PVC	SOCKETS	2+2	250+500			1500
13	20	3X4	CU-PVC	SOCKETS	2	1000	2000		
14	20	3X4	CU-PVC	SOCKETS	1	1500		1500	
15	20	3X4	CU-PVC	SOCKETS	1	1500			1500
16	20	3X4	CU-PVC	SOCKETS	1	1500	1500		
17	20	3X4	CU-PVC	SOCKETS	1	1500		1500	
18	20	3X4	CU-PVC	SOCKETS	2	1000			2500
19	20	3X4	CU-PVC	SOCKETS	2+1	250+500	1000		
20	20	3X4	CU-PVC	SOCKETS	1+1	250+500		750	
21	20	3X4	CU-PVC	SOCKETS	2	1000			2000
22	20	3X4	CU-PVC	SOCKETS	1+1	250+500	750		
23	20	3X4	CU-PVC	SOCKETS	1	1500		1500	
24	20	3X4	CU-PVC	SOCKETS	1	1500			1500
25	20	3X4	CU-PVC	SOCKETS	3	1000	3000		
26	20	3X4	CU-PVC	SOCKETS	1	1500		1500	
27	20	3X4	CU-PVC	SOCKETS	1	1500			1500
28	20	3X4	CU-PVC	SOCKETS	1	1500	1500		
29	20	3X4	CU-PVC	SOCKETS	1	1500		1500	
30	20	3X4	CU-PVC	AC	1	3400			3400
31	20	3X4	CU-PVC	AC	1	1100	1100		
32	20	3X4	CU-PVC	AC	1	3400		3400	
33	20	3X4	CU-PVC	AC	1	1100			1100
34	20	3X4	CU-PVC	AC	1	3400	3400		
35	20	3X4	CU-PVC	AC	1	1600		1600	
36	20	3X4	CU-PVC	AC	1	1600			1600
37	20	3X4	CU-PVC	AC	1	2200	2200		
38	20	3X4	CU-PVC	AC	1	3400		3400	
39	20	3X4	CU-PVC	SOCKETS	2	500			500
40	20			SPARE					
41	20			SPARE					
42	20			SPARE					
43	20			SPARE					
44	20			SPARE					
45	20			SPARE					
46	20			SPARE					
47	20			SPARE					
48	20			SPARE					
TOTAL LOAD PER PHASE (W)							19210	19224	19000
TOTAL CONNECTED LOAD (KW)							57.4		
DEMAND FACTOR							0.8		
TOTAL DEMAND LOAD (KW)							46.0		

BOARD REF: GPB2 BOARD SIZE: 42 WAY TPNE LOCATION: GROUND FLOOR					CONTROLLED BY:63A MCCB CABLE SIZE: 4X25mm ² CU/XLPE/PVC +16mm ² CU/PVC FED FROM: SMD81				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	10	3X2.5	CU-PVC	LIGHTING	12+4+1	36+20+8	520		
2	10	3X2.5	CU-PVC	LIGHTING	11	36		400	
3	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20			330
4	10	3X2.5	CU-PVC	LIGHTING	7+2+1	36+20+8	300		
5	10	3X2.5	CU-PVC	LIGHTING	12+4+1	36+20+8		520	
6	10	3X2.5	CU-PVC	LIGHTING	5+6	20+26			260
7	20	3X4	CU-PVC	LIGHTING	2	120	240		
8	10	3X2.5	CU-PVC	LIGHTING	3+8+4	36+20+8		300	
9	10	3X2.5	CU-PVC	LIGHTING	12+4	36+20			520
10	20	3X4	CU-PVC	SOCKETS	2+2	250+500	1500		
11	20	3X4	CU-PVC	ISOLATOR	1	500		500	
12	20	3X4	CU-PVC	ISOLATOR FOR COMP.	1	500			500
13	20	3X4	CU-PVC	SOCKETS	1+2	500+250	1000		
14	20	3X4	CU-PVC	SOCKETS	2	500		1000	
15	20	3X4	CU-PVC	SOCKETS	2+1	250+500			1000
16	20	3X4	CU-PVC	ISOLATOR	1	500	500		
17	20	3X4	CU-PVC	ISOLATOR FOR COMP.	1	500		500	
18	20	3X4	CU-PVC	SOCKETS	4+1	250+500			1500
19	20	3X4	CU-PVC	SOCKETS	2+3	500+250	1500		
20	20	3X4	CU-PVC	SOCKETS	2	500		1000	
21	20	3X4	CU-PVC	SOCKETS	2	250			500
22	20	3X4	CU-PVC	SOCKETS	1+2	250+500	1250		
23	20	3X4	CU-PVC	SOCKETS	2+1	250+500		1000	
24	20	3X4	CU-PVC	SOCKETS	1	500			500
25	20	3X4	CU-PVC	SOCKETS	2+1	250+500	1000		
26	20	3X4	CU-PVC	SOCKETS	2	500		1000	
27	20	3X4	CU-PVC	AC	1	2000			2000
28	20	3X4	CU-PVC	AC	1	2200	2200		
29	20	3X4	CU-PVC	AC	1	2200		2200	
30	20	3X4	CU-PVC	AC	1	2200			2200
31	20	3X4	CU-PVC	AC	1	1100	1100		
32	20	3X4	CU-PVC	AC	1	2000		2000	
33	20	3X4	CU-PVC	AC	1	1600			1600
34	20	3X4	CU-PVC	AC	1	1100	1100		
35	20	3X4	CU-PVC	AC	1	1600		1600	
36	20	3X4	CU-PVC	AC	1	1600			1600
37	10	3X2.5	CU-PVC	EXTERNAL LIGHTING	6	20	120		
38	20	3X4	CU-PVC	LIGHTING	2	120		240	
39	20	3X4	CU-PVC	ISOLATOR FOR LITHOTRIPSY	1	500			500
40	20			SPARE					
41	20			SPARE					
42	20			SPARE					
TOTAL LOAD PER PHASE (W)							12330	12260	13010
TOTAL CONNECTED LOAD (KW)							37.6		
DEMAND FACTOR							0.8		
TOTAL DEMAND LOAD (KW)							30.0		

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة التطبيقات الفنية



REV. NO. DATE DESCRIPTION



PROJECT OWNER
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
BLOOD BANK AND VARIOUS
CLINICS RENOVATION

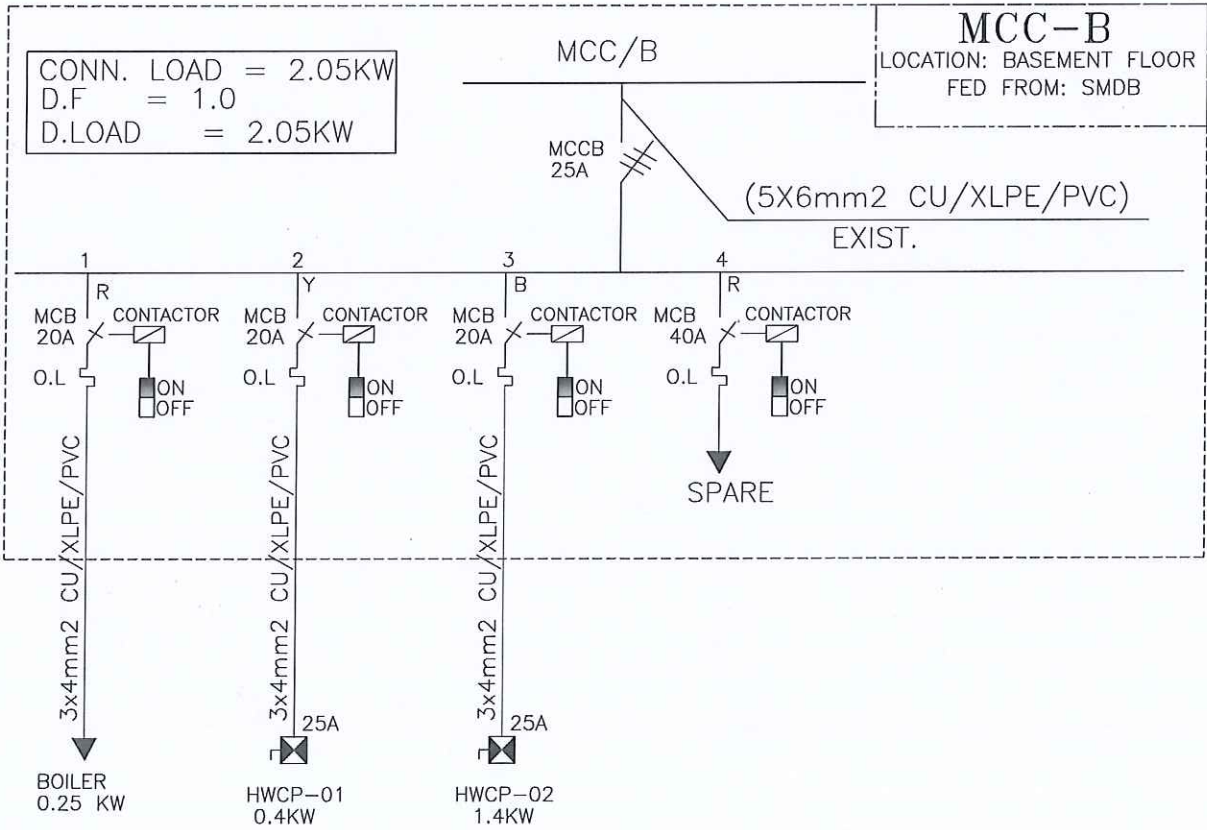
DRAWING NAME :
ELECTRICAL PANELS

Prepared By :
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e-mail: ruqn@ruqn.com
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CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

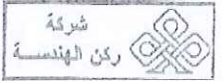
SCALE: NTS SHEET SIZE: A1
PLOT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 E-500 A

BOARD REF: DB-UPS BOARD SIZE: 12 WAY TPNE LOCATION: GROUND FLOOR					CONTROLLED BY: 25A MCCB CABLE SIZE: 5X6mm2 CU/XLPE/PVC FED FROM: SMDB1				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	20	3X4	CU-PVC	SOCKET	2	500	1000		
2	20	3X4	CU-PVC	SOCKET	2	500		1000	
3	20	3X4	CU-PVC	SOCKET	2	500			1000
4	20	3X4	CU-PVC	SOCKET	1	500	500		
5	20	3X4	CU-PVC	SOCKET	3	500		1500	
6	20	3X4	CU-PVC	SOCKET	1	500			500
7	20	3X4	CU-PVC	SOCKET FOR FACP	1	500	500		
8	20			SPARE					
9	20	3X4	CU-PVC	SOCKET	3	500			1500
10	20			SPARE					
11	20			SPARE					
12	20			SPARE					
TOTAL LOAD PER PHASE (W)							2000	2500	3000
TOTAL CONNECTED LOAD (KW)							7.5		
DEMAND FACTOR							0.8		
TOTAL DEMAND LOAD (KW)							6.0		



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التوجيهات الفنية المعمول بها



REV. NO. DATE DESCRIPTION



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

ELECTRICAL PANELS

Prepared By :

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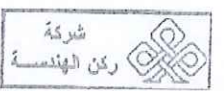
DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: NTS SHEET SIZE: A1

PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-501
		REV. A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات القمعية
مراجعة المهندس /



REV. NO. DATE DESCRIPTION



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

ELECTRICAL PANELS

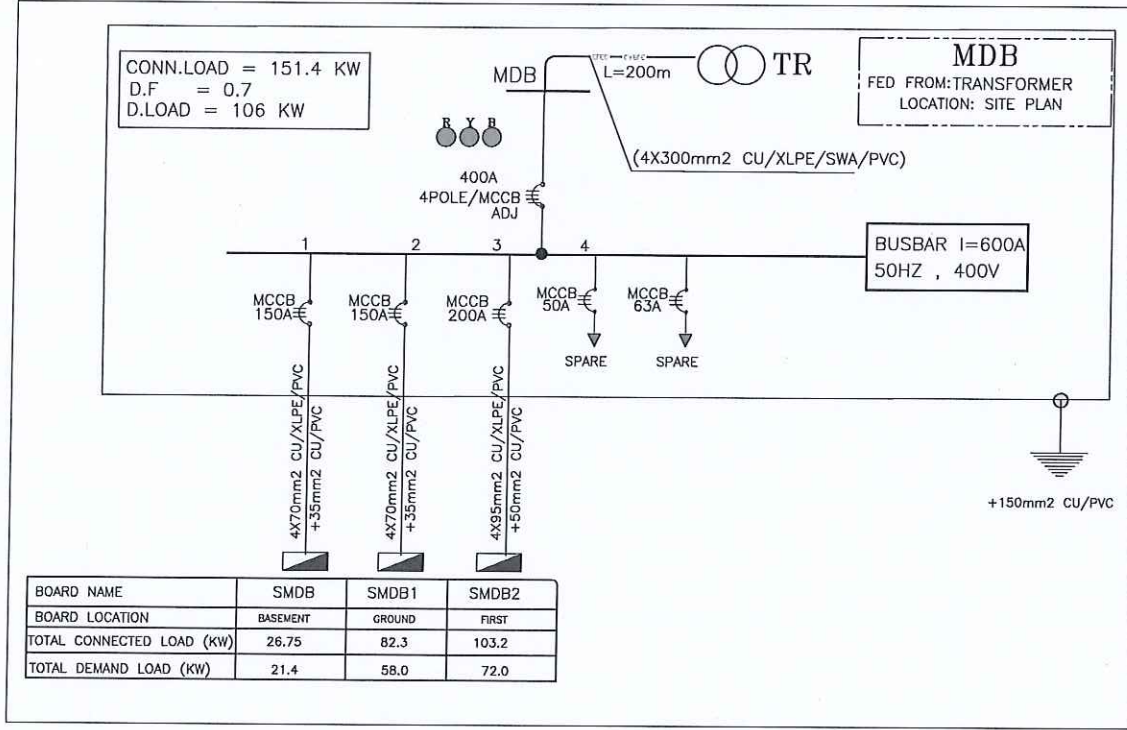
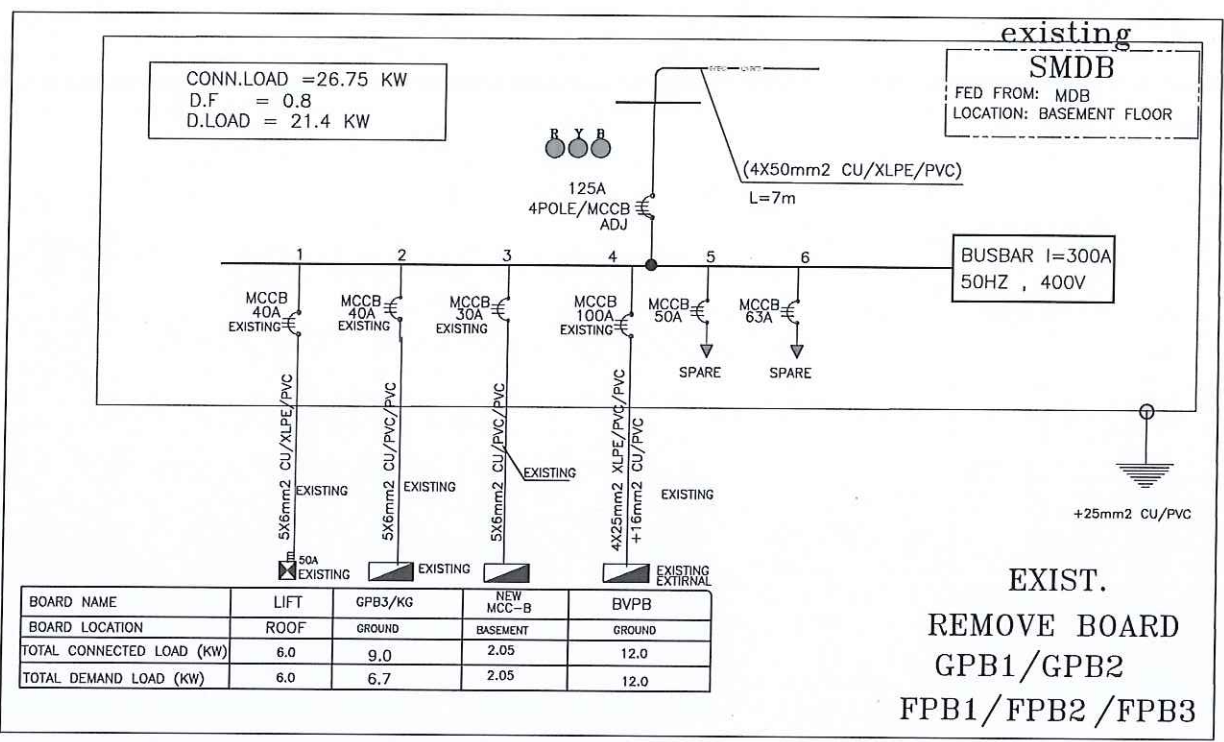
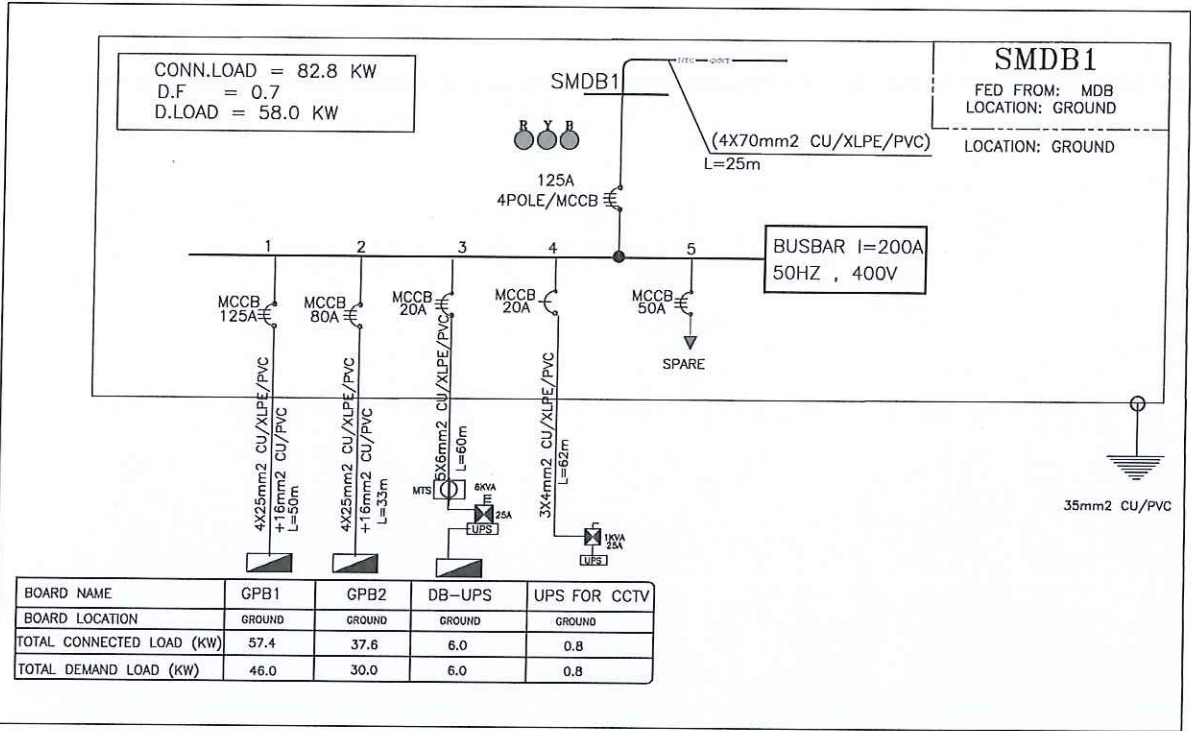
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SCALE: NTS SHEET SIZE: A1

FLY NO.	REVISION NO.	CAD FILE
		SER._DC_X.REP_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-502
		REV.
		A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعمدة
بموجب التعليمات الفنية المعمدة

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION



PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

HAKEEM DATA SYSTEM
GROUND FLOOR

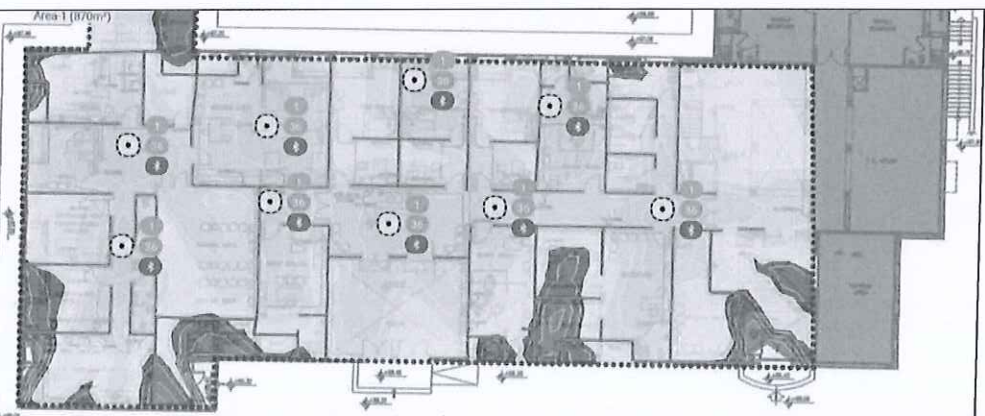
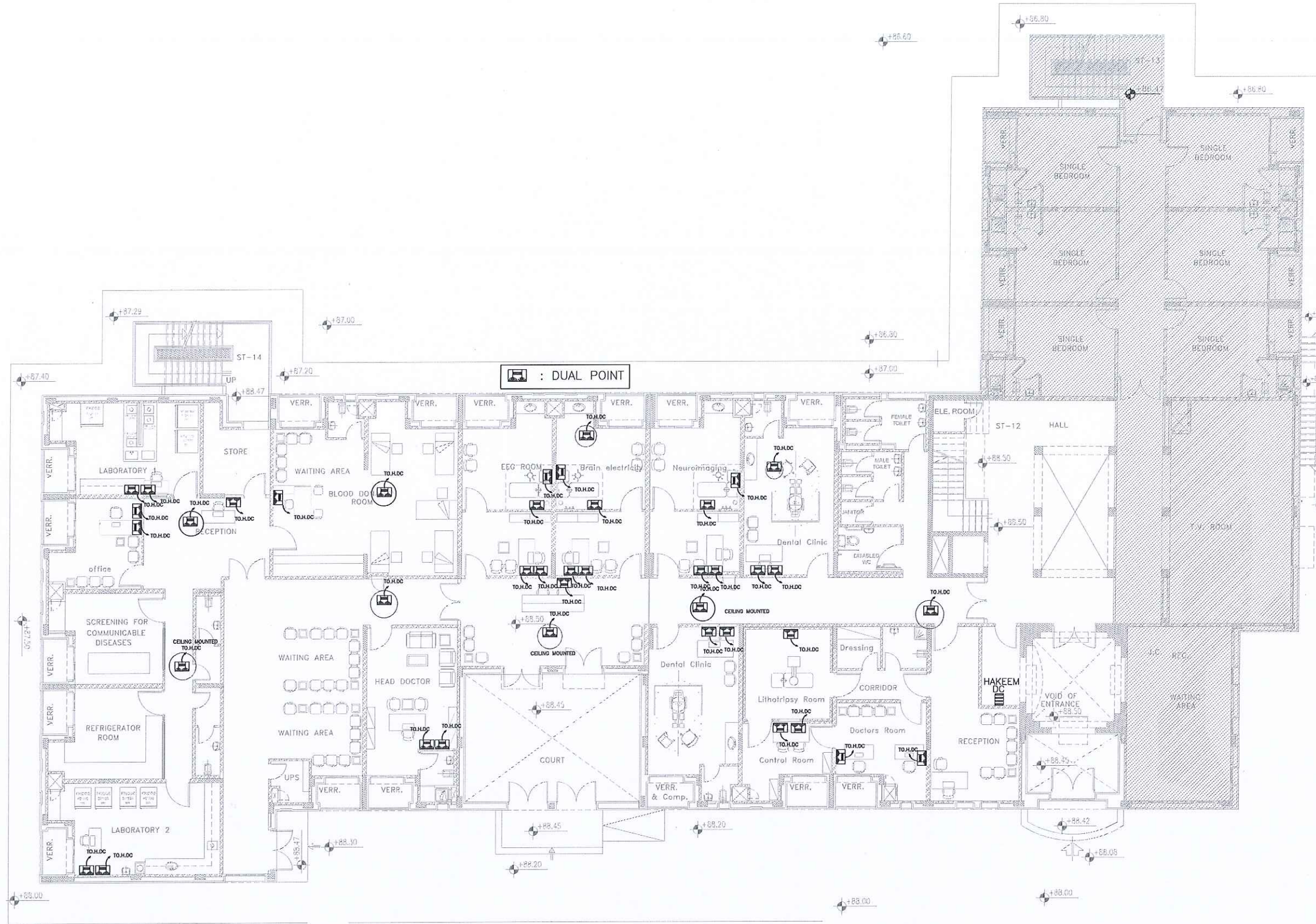
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SCALE: 1/100 SHEET SIZE: A1

PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-600
		REV.
		A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة التصميمات الهندسية

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التاريخ 1 / 1
مستشفى الأمير حمزة

PROJECT OWNER

وزارة الصحة
المستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

DATA&TELEPHONE SYSTEM
GROUND FLOOR

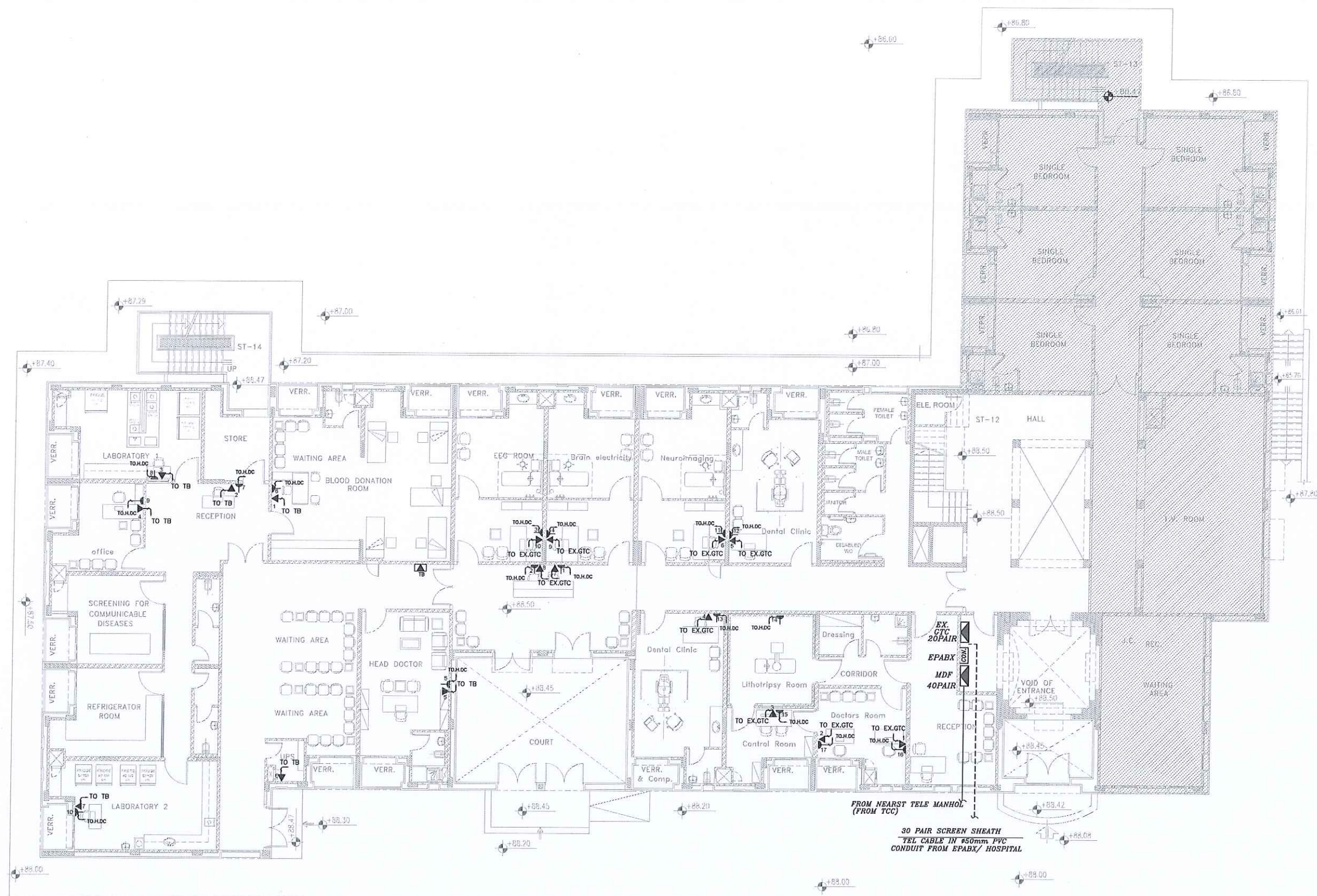
Prepared By :

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SCALE: 1/100 SHEET SIZE: A1

PLOT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 E-601 A

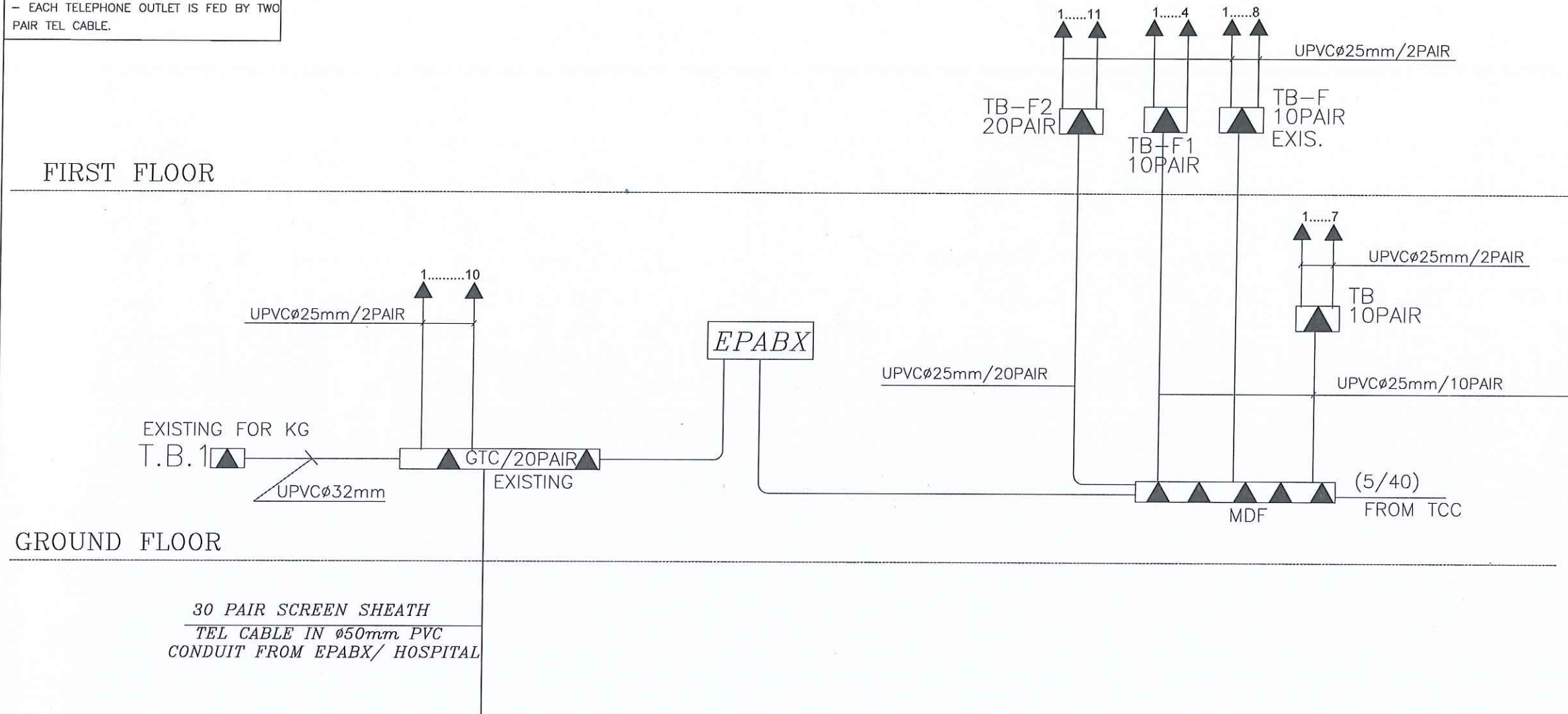


LEGEND:-
 ▲ 3PIN TELEPHONE SOCKET OUTLET.
 NOTE:-
 - EACH TELEPHONE OUTLET IS FED BY TWO PAIR TEL CABLE.

NOTE:-
 - EACH TELEPHONE OUTLET IS FED BY TWO PAIR TEL CABLE.

FIRST FLOOR

GROUND FLOOR



TELEPHONE RISER FOR BLOOD BANK & DIABETES

NOTES :
 -ALL DIMENSIONS ARE IN CENTIMETERS
 -ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المقدمة
 من قبل المصمم

شركة
 ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
 لجنة شراء الأشغال
 الترخيص
 1 / 1
 مستشفى الحسينية

PROJECT OWNER :

وزارة الصحة
 مستشفى الحسينية

PRINCE HAMZA HOSPITAL
 Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
 CLINICS RENOVATION

DRAWING NAME :

TELEPHONE RISER

Prepared By :

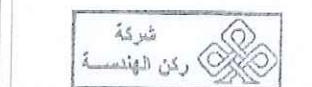
RUQN AL HANDASA
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DESIGNED BY ENAS.J 50100
 CHECKED BY IBRAHIM.H 817
 DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1

PLOT NO. BASIN NO. CAD FILE
 SER_DC_X-REF_342
 ISSUE DATE PROJECT NO. DRAWING NO. REV.
 MAR.2024 342-3 E-001 (2) A

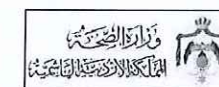
تم التصميم حسب الكودات المعتمدة



REV. NO.	DATE	DESCRIPTION
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وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة

PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS CLINICS RENOVATION

DRAWING NAME :

DATA RISER

Prepared By :



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AMMAN - JORDAN

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[illegible]

DESIGNED BY	ENAS.J	50100
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CHECKED BY	IBRAHIM H	817
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CHECKED BY	IBRAHIM.H	817

DRAWN BY	ENAS.J	50100
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	ERASIO	50150
50150	50150	50150

SCALE: 1/100 SHEET SIZE: A1

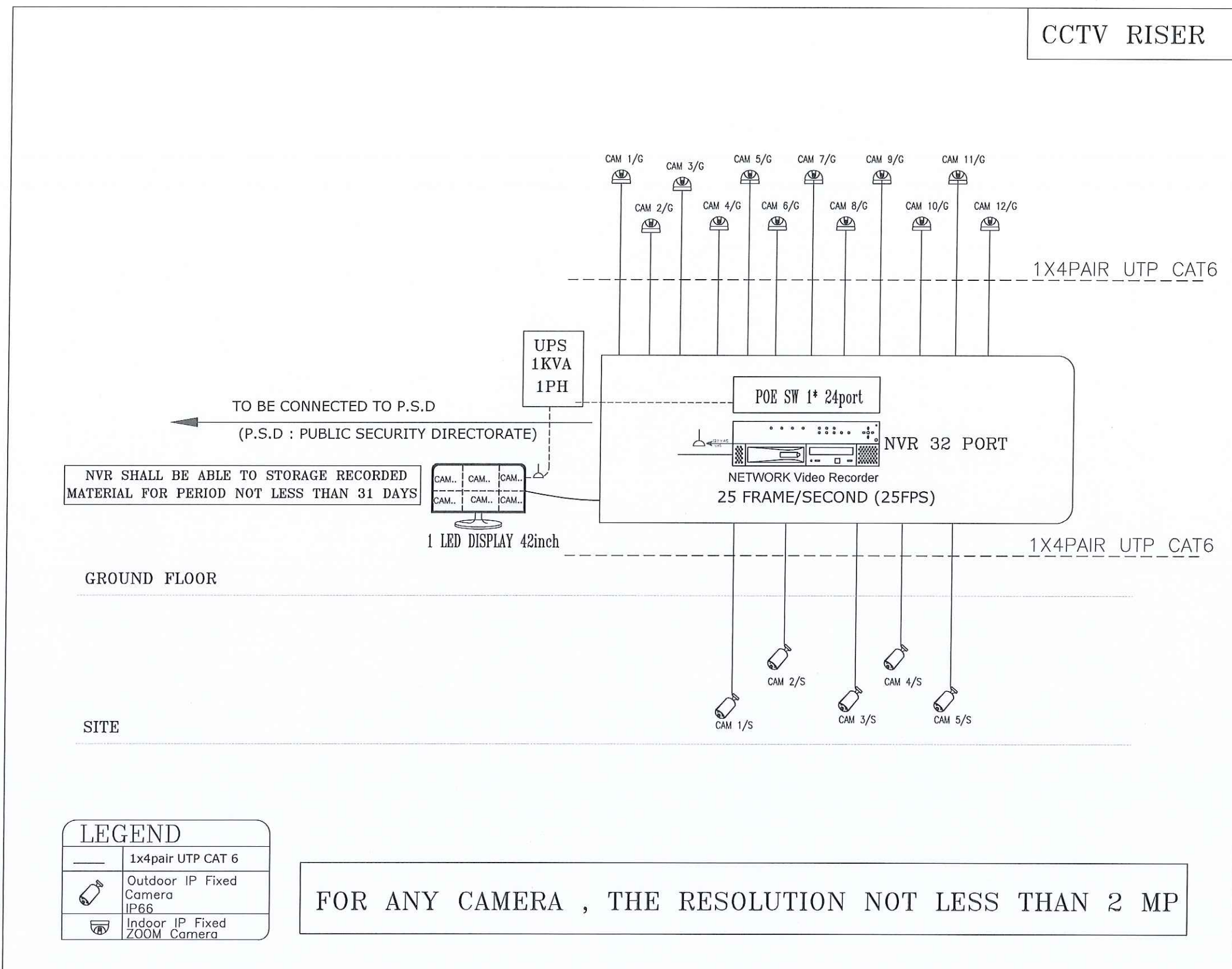
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PLOT NO.	BASIN NO.	CAD FILE
		SEE PG. X REF. 242

		SER._DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.

ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
2014-01-01	100-1	100-1	1

MAR.2024	342-3	E-602	A
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NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المقتمدة
مكتب الهندسة المعمارية

شركة
ركن الهندسة

وزارة الصحة
مستشفى الأمير حمزة
مكتبة شراء الأشغال
التلفظ
NORTH

PROJECT OWNER :

وزارة الصحة
مستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

CCTV RISER

Prepared By :

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DRAWN BY	ENAS.J	50100

SCALE: 1/100 SHEET SIZE: A1

FLAT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-701
		REV.
		A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مستشفى الأمير حمزة

شركة
ركن الهندسة

وزارة الصحة
لجنة شراء الأشغال
التأليف 1 / 1
مستشفى الأمير حمزة

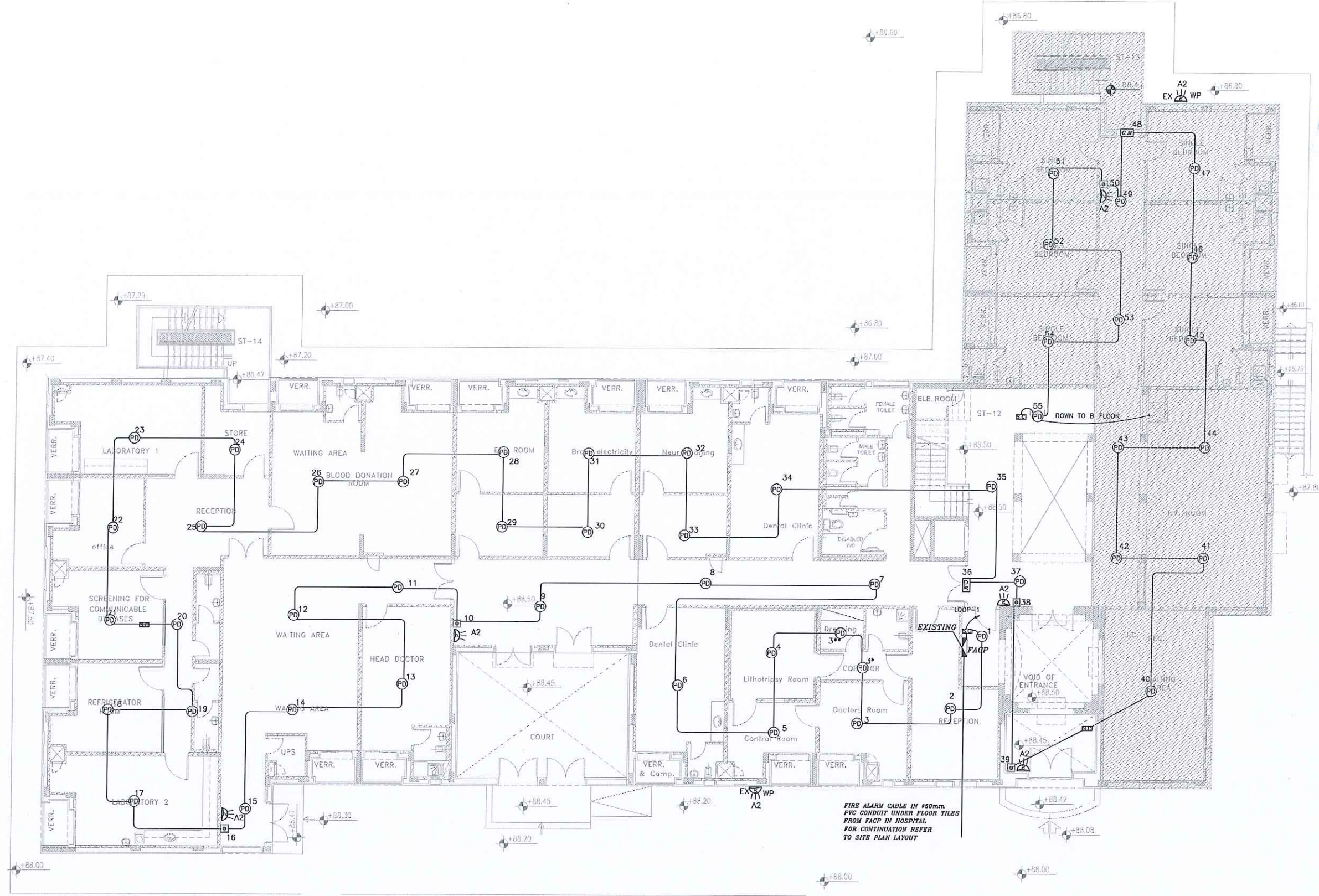
PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :
FIRE ALARM SYSTEM
GROUND FLOOR

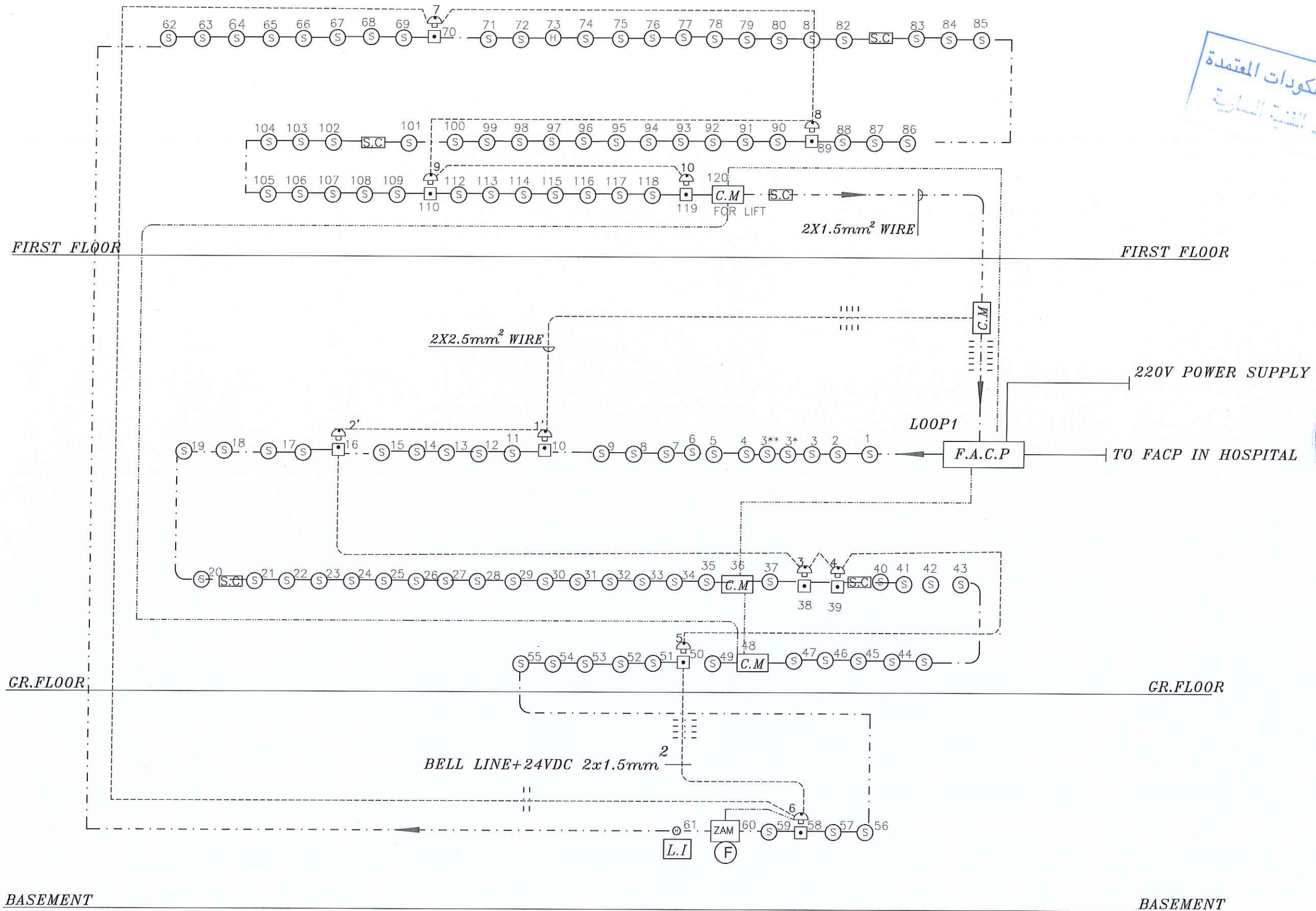
Prepared By :
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CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100
SCALE: 1/100	SHEET SIZE: A1	
PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	E-800
		REV.
		A



ROOF

ROOF



FIRE ALARM SYSTEM RISING DIAGRAM EXISTING

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة المهندس

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة

PROJECT OWNER

وزارة الصحة
المستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

FIRE ALARM RISER

Prepared By :

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DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100
SCALE: 1/100	SHEET SIZE: A1	
PLOT NO.	BASIN NO.	CAD FILE
ISSUE DATE	PROJECT NO.	SER_DC_X.REF_342
MAR.2024	342-3	E-801
		A

LIGHTING FIXTURE SCHEDULE					
SYMBOL	FIX. REF.	VOLTAGE	WATTAGE	DESCRIPTION	TYPE
	F1	230	36W	RECESSED CEILING MOUNTED LED LIGHT FIXTURE 60cmX60cm HOUSING AND FRAME: IN GALVANIZED STEEL SHEET AND FRAME ALUMINIUM LIGHT DIFFUSER :OPAL INTEGRATED DRIVER. TEMPERATURE COLOUR: 4000K CRI>90 IP20 LIGHT EFFICIENCY =100LM/W, 50000HRS	RECESSED CEILING MOUNTED
	F2	230	36W	AS ABOVE BUT WITH EMERGENCY KIT (20)WATT -3 HOUR DURATION BATTERY : LITHIUM- ION	RECESSED CEILING MOUNTED
	F3	230	1X20W LED	DOWN LIGHT LUMINAIRES BODY MADE OF ALUMINIUM ,THERMO PAINT 20W,LED LIGHT OPTIC : PMMA, CONTROL GEAR. EFFICIENCY=100LM/W TEMPERATURE COLOUR: 4000K, CRI>90 IP65, ,50000HRS	CEILING MOUNTING
	F4	230	1X20W LED	DOWNLIGHT LED PANEL, MADE OF ALUMINIUM WITH THERMO PAINT COATING MODELS INCLUDED CONTROL GEAR AND LAMPS ,IP44 TEMPERATURE COLOUR: 4000K EFFICIENCY =100LM/W , CRI>90,50000HRS	RECESSED CEILING MOUNTED
	F5	230	1X20W LED	AS ABOVE BUT WITH EMERGENCY KIT (20)WATT -3 HOUR DURATION BATTERY : LITHIUM- ION	RECESSED CEILING MOUNTED
	F6	230	8W	WALL LED LUMINAIRES POWDER COATED STEEL BASS,SPECIAL MULTILAYER PRISMATIC DIFFUSER COMBINING HIGH UV RESISTANCE PMMA COVER IP40 TEMPERATURE COLOUR: 4000K LIGHT EFFICIENCY =100LM/W, 50000HRS , CRI>90	WALL MOUNTED
	EX	230	8W	MAINTAINED NON MAINTAINED, EMERGENCY EXIT SIGN. EPOXY WHITE COATED STEEL BODY MADE OF STEEL, COMPLETE WITH MAINS PLUG, LIGHT EMITTING DIODE, 8 W LED LAMP, GEAR AND EMERGENCY KIT, FULLY WIRED FOR 3 HOURS DURATION BATTERIES,NON MAINTAINED SINGLE FACE, WITH OPAL DIFFUSER. LETTERING: ENGLISH AND ARABIC IN GREEN.	WALL MOUNTED
	EX1	230	8W	as above but double face	
	F8	230	26W	1X26W BULKHEAD WALL MOUNTING LUMINAIRE,CRI>90	WALL MOUNTED

LIGHTING SWITCH CONTROL LEGEND	
SYMBOL	DESCRIPTION
	20 AMP. DP SWITCH WITH INDICATION LAMP.
	10 AMP. ONE GANG ONE-WAY SWITCH .
	DITTO, BUT TWO GANG WEATHER PROOF.
	DITTO, BUT TWO GANG
	10 AMP. ONE GANG -TWO WAY SWITCH (REMOTE SWITCH)
	10 AMP. TWO GANG- TWO WAY SWITCH (REMOTE SWITCH)
	10 AMP. INTERMEDIATE SWITCH
	DIMMER SWITCH
	GRID SWITCH

POWER SYSTEM LEGEND	
SYMBOL	DESCRIPTION
	TRANSFORMER
	MAIN DISTRIBUTION BOARD (M.D.B.)
	SUB MAIN DISTRIBUTION BOARD (S.M.D.B.)
	EMERGENCY DISTRIBUTION BOARD (E.M.D.B.)
	MOTOR CONTROL CENTER -(MCC)
	KILO-WATT HOUR METER
	DISTRIBUTION BOARD (D.B.) RECESSED TYPE UNLESS OTHERWISE NOTED .
	MOLDED CASE CIRCUIT BREAKER (MCCB)-SINGLE PHASE
	MOLDED CASE CIRCUIT BREAKER (MCCB)-THREE PHASE
	MINIATURE CIRCUIT BREAKER (MCB)-SINGLE PHASE
	MINIATURE CIRCUIT BREAKER (MCB)-THREE PHASE
	20 AMP. DP SWITCH WITH INDICATION LAMP.
	16 AMP THREE PHASE INDUSTRIAL SOCKET OUTLET 5 KW
	16 AMP SINGLE PHASE INDUSTRIAL SOCKET OUTLET 2 KW
	13 AMP. SINGLE PHASE SWITCH POWER OUTLET,IP 20
	13 AMP DUPLEX .SINGLE PHASE SOCKET OUTLET. IP 20
	15 AMP single WATER PROOF.SINGLE PHASE SOCKET OUTLET,IP66
	15 AMP double WATER PROOF.SINGLE PHASE SOCKET OUTLET,IP66
	ELECTRICAL POWER POINT
	THREE PHASE DISCONNECTING SWITCH OR ENCLOSED CIRCUIT BREAKER, RATING AS SHOWN.
	SINGLE PHASE DISCONNECTING SWITCH (WEATHER-PROOF OR ENCLOSED CIRCUIT BREAKER, RATING AS SHOWN.
	THREE PHASE DISCONNECTING SWITCH (WEATHER-PROOF OR ENCLOSED CIRCUIT BREAKER, RATING AS SHOWN.
	13AMP,1PH SWITCHED SOCKET ,IP20 CEILING/WALL MOUNTED FOR A-C
	ELECTRICAL MANHOLE
	LOW CURRENT MANHOLE
	15 AMP. SINGLE PHASE DOUBLE SOCKET OUTLET FIXED ON FLOOR Ip 66
	13 AMP DUPLEX .SINGLE PHASE SOCKET OUTLET. IP 20 WITH UPS AND PILOT LAMP
	HAKEM DATA OUTLET , WALL MOUNTED
	13 AMP. SINGLE PHASE SWITCH POWER OUTLET,IP 20 COUNTER MOUNTED
	13 AMP DUPLEX .SINGLE PHASE SOCKET OUTLET. IP 20 COUNTER MOUNTED

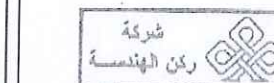
FIRE ALARM SYSTEM LEGEND	
SYMBOL	DESCRIPTION
	CONVENTIONAL SMOKE DETECTOR
	CONVENTIONAL HEAT DETECTOR
	FIRE ALARM BELL
	CONVENTIONAL GLASS CALL POINT INDOOR TYPE
	STROBE/SOUNDER .WITH FLASHER
	STROBE/SOUNDER BUT WEATHER PROOF .WITH FLASHER
	SHORT CIRCUIT PROTECTION
	FIRE ALARM CONTROL PANEL
	REPEATER FIRE ALARM CONTROL PANEL
	AUTO DIALER
	CONTROL MODULE
	MONITOR MODULE

CCTV SYSTEM LEGEND	
SYMBOL	DESCRIPTION
	COLUMN 3M FOR OUTDOOR CAMERA
	Coaxial Cable RG59
	IP Indoor Fixed ZOOM Camera
	IP Outdoor Fixed CAMERA IP66
	UNINTERRUPTED POWER SUPPLY
	TV SCREEN
	NETWORK VIDEO RECORDER

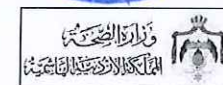
LOW CURRENT SYS LEGEND	
SYMBOL	DESCRIPTION
	MAIN DISTRIBUTION FRAME (M.D.F.)
	D.C. DATA CABINET
	RJ45,WALL MOUNTED DATA OUTLETS/ COMPUTERS
	DATA OUTLETS/ COMPUTERS CEILING MOUNTED
	RJ11, WALL MOUNTED TELEPHONE OUTLET
	TV SOCKET OUTLET
	TELEVISION /SATELLITE BOX
	TELEPHONE JUNCTION BOX
	HAKEM DATA OUTLETS , WALL MOUNTED

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مهندسة هندسة البنية التحتية



REV. NO. DATE DESCRIPTION



LEGEND

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AMMAN - JORDAN
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DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: NTS SHEET SIZE: A1

PLOT NO. BASIN NO. CAD FILE
SER._DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-100 A

	* GYPSUM BOARD WATER RESISTANT
	* GYPSUM INS AS SPECIFIED
	* GYPSUM BOARD

تم التصميم حسب الكودات المعتمدة

شركة
ركن الهندسة

11

وزارة الصحة
جنة شراء الأشغال
التاريخ
مستشفى الأمير حمزة

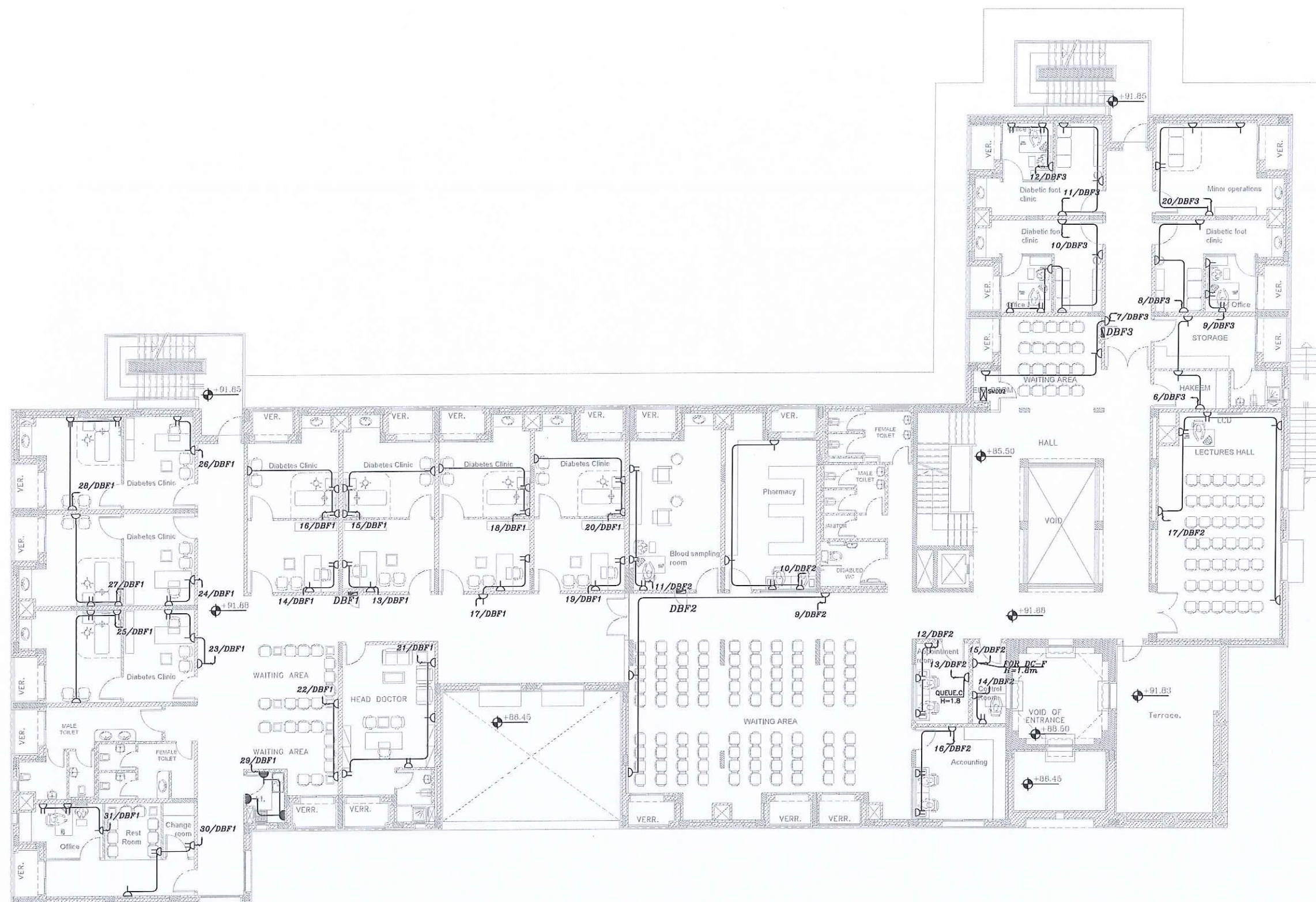

 وزارة التعليم والبحث العلمي
 الجمهورية العراقية

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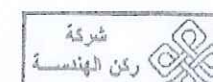
DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100

SCALE: 1/100		SHEET SIZE: A1	
LOT NO.	BASIN NO.	CAD FILE	
		SER:_DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	E-200	A

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS



تم التصميم حسب الكودات المعتمدة



REV. NO.	DATE	DESCRIPTION
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PROJECT OWNER



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :	
----------------	--

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

POWER SYSTEM
FIRST FLOOR

Prepared By :



RUQN AL HANDASA
Consulting Engineers
AMMAN - JORDAN



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DESIGNED BY	ENAS.J	50100
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CHECKED BY	IBRAHIM.H	817
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DRAWN BY	ENAS.J	50100
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SCALE: 1/100 SHEET SIZE: A1

PLOT NO.	HASIN NO.	CAD FILE	
		SER_DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	E-300	A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مهندس معماري
مهندس كهربائي

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة

PROJECT OWNER :

وزارة الصحة
مستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

UPS SYSTEM
FIRST FLOOR

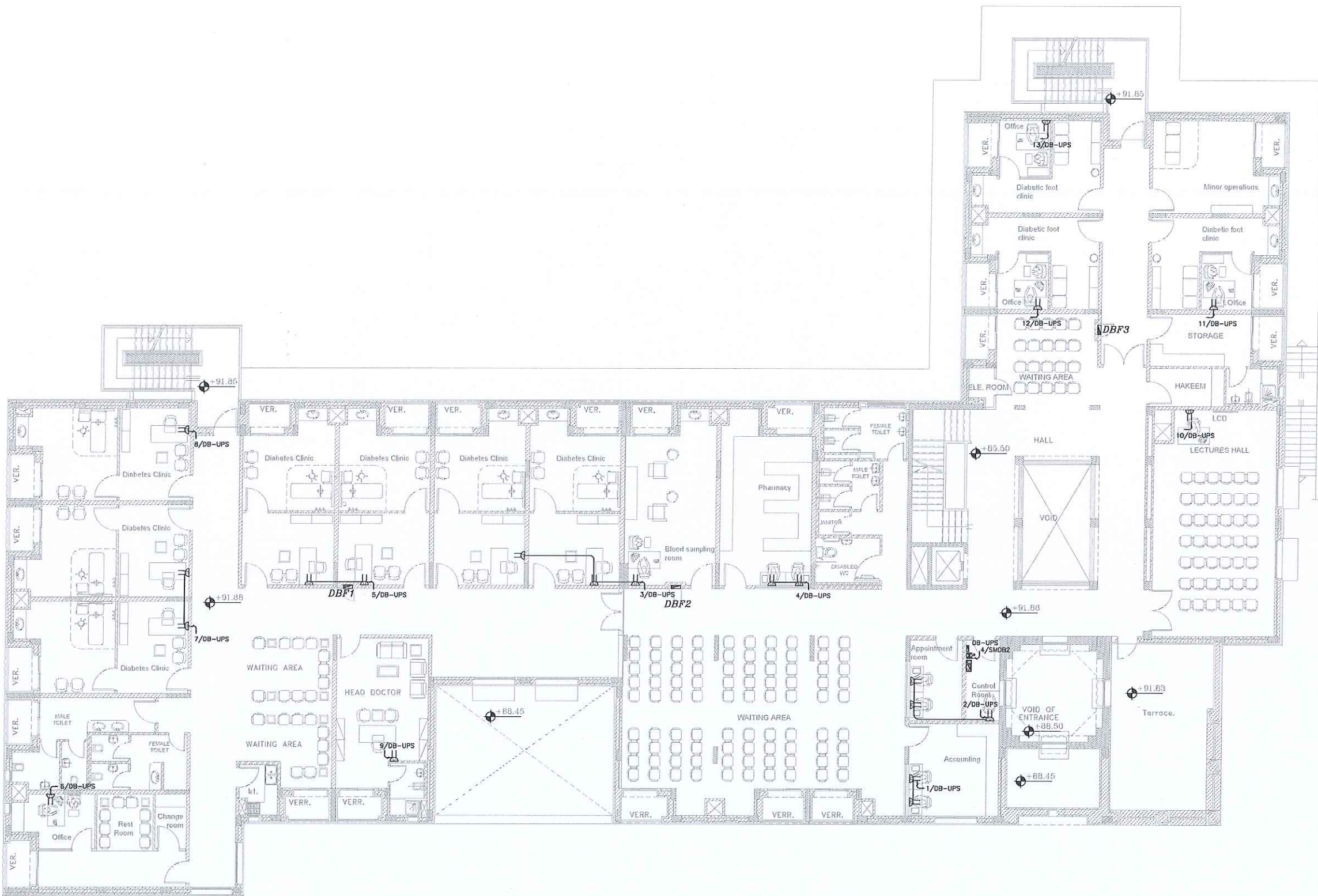
Prepared By :

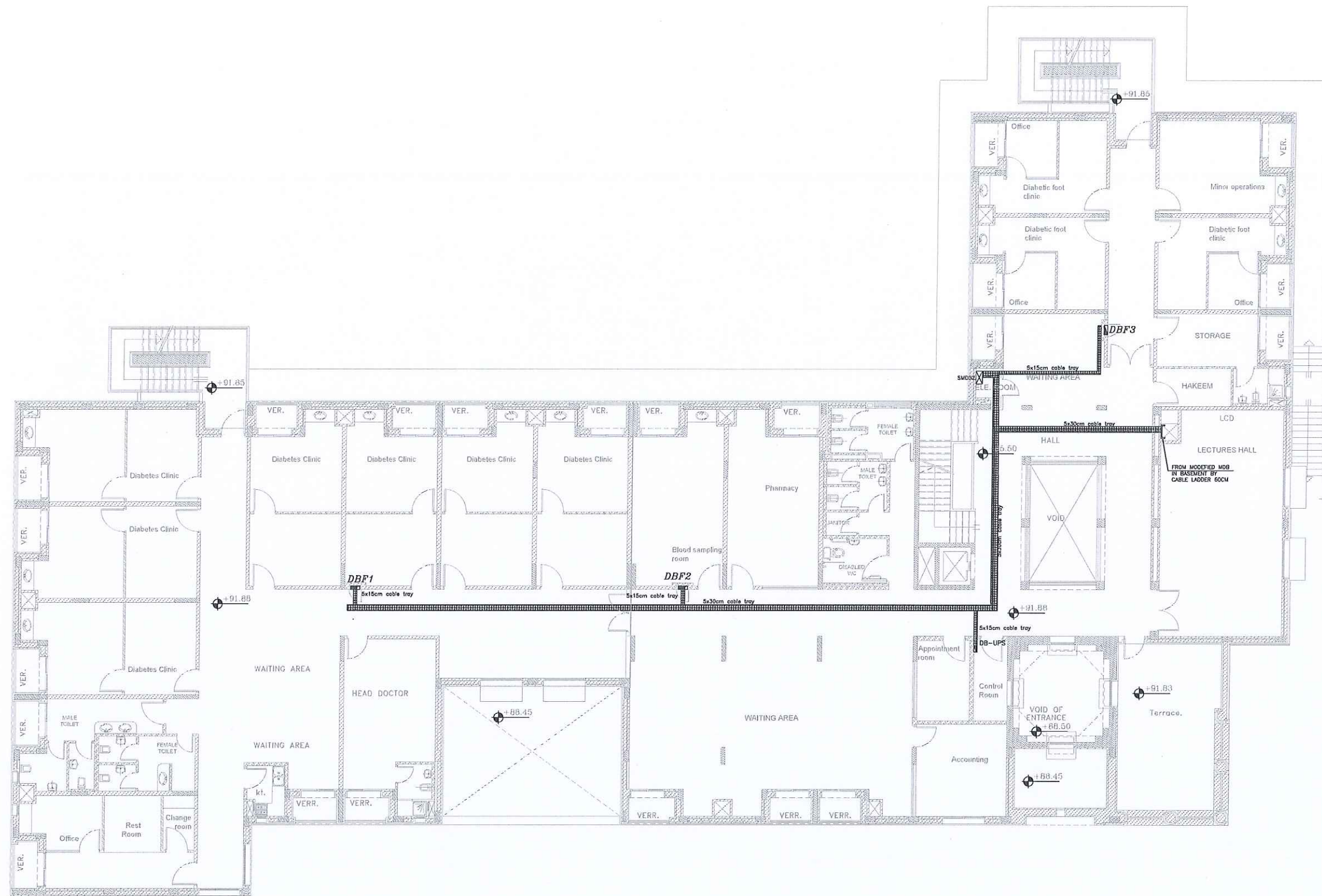
RUQN AL HANDASA
Consulting Engineers
AMMAN - JORDAN
TEL : 4653344 FAX : 4653342
e-mail: ruqn@ruqn.com
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DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1

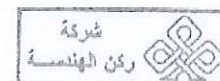
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	E-301	A



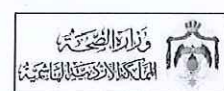


NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مستشفى الأمير حمزة



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

CABLE TRAY
FIRST FLOOR

Prepared By :

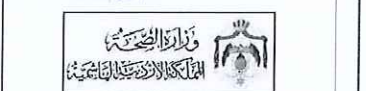
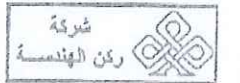
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SCALE:	1/100	SHEET SIZE:	A1
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	E-302	A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية للمشاريع



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

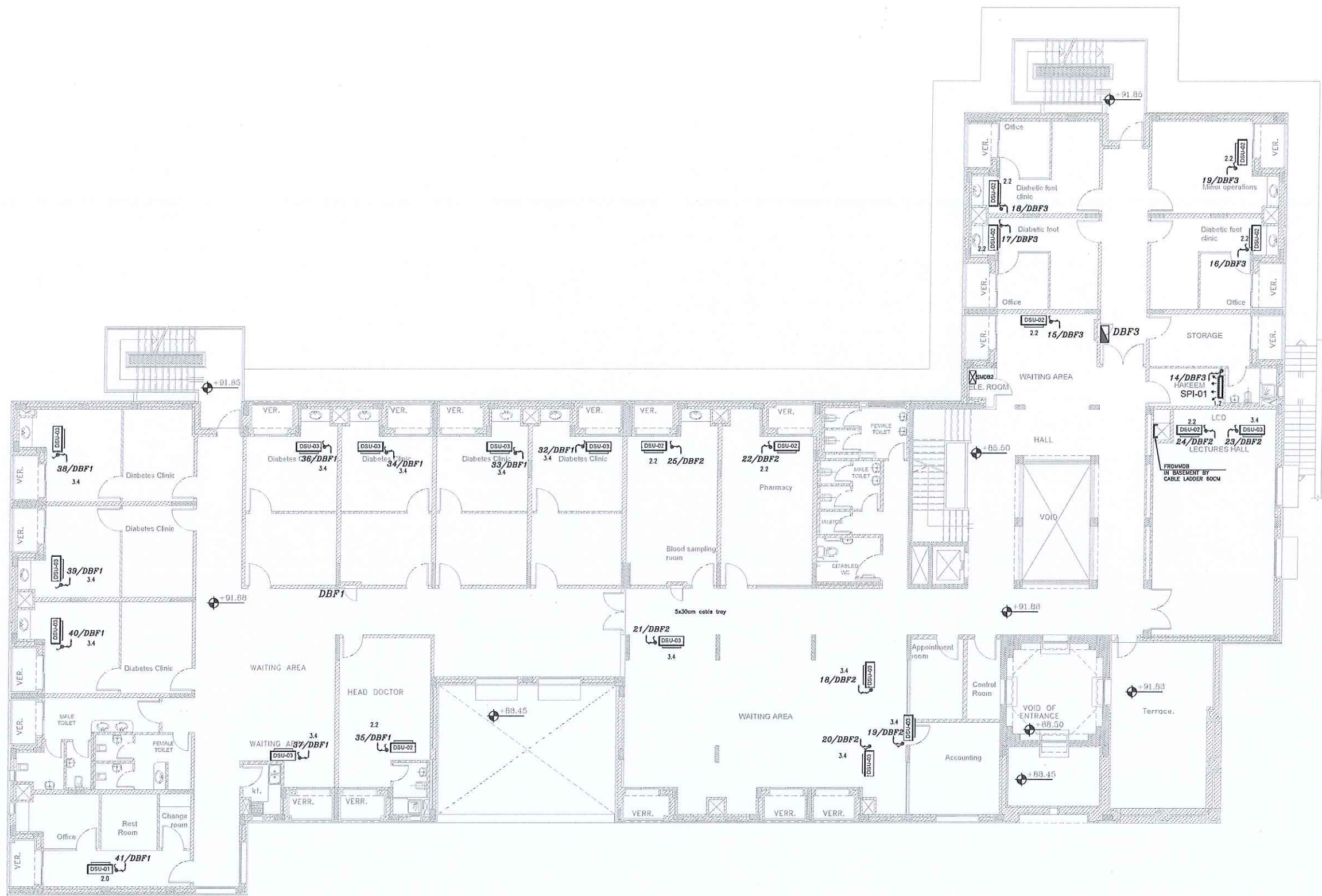
PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
HVAC SYSTEM
FIRST FLOOR

Prepared By :
RUQN AL HANDASA
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CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: 1/100 SHEET SIZE: A1
PLOT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-400 A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التاريخ
مستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

HVAC SYSTEM
ROOF FLOOR

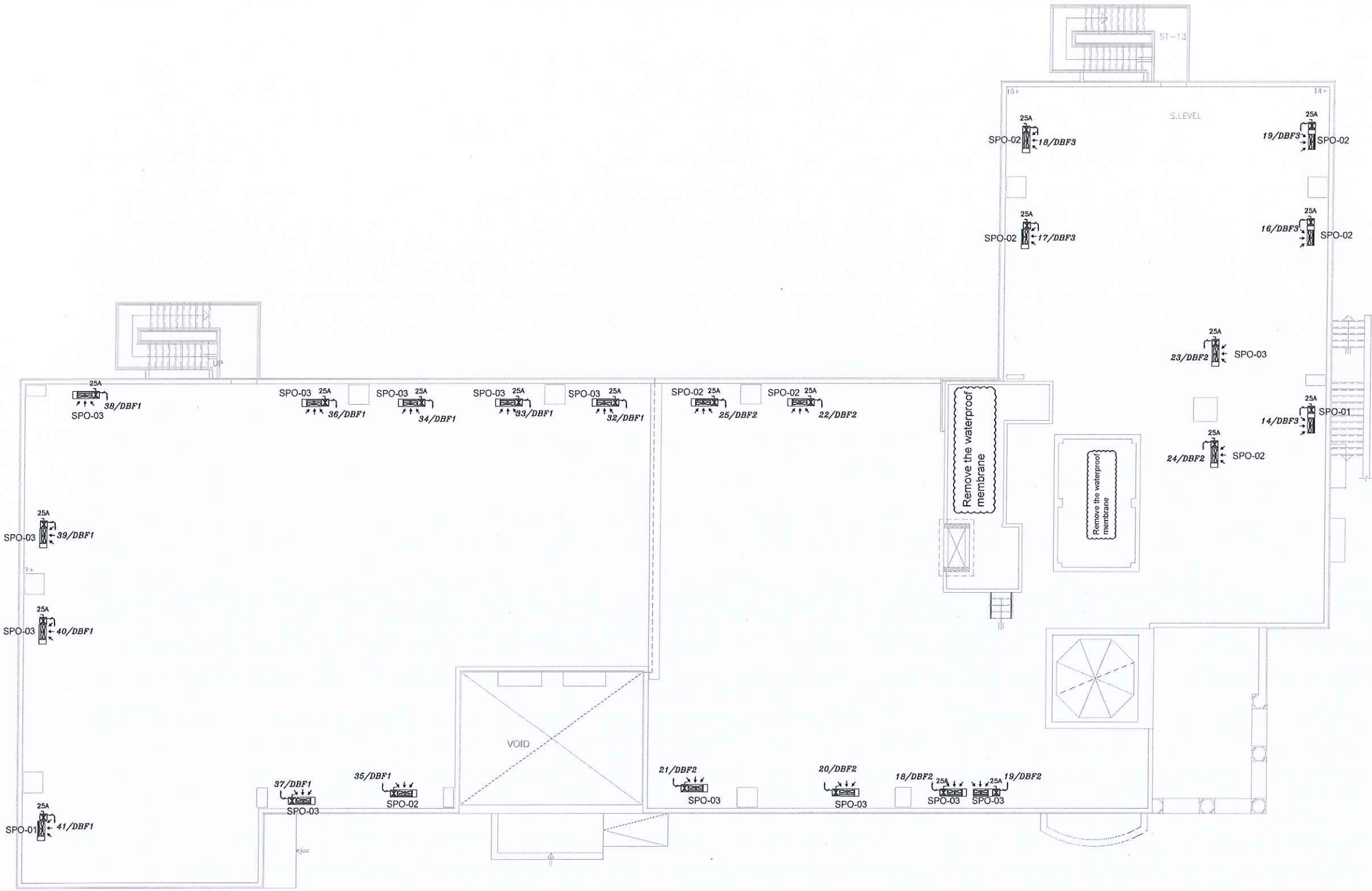
Prepared By :

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SCALE: 1/100 SHEET SIZE: A1

FIG. NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-401 A



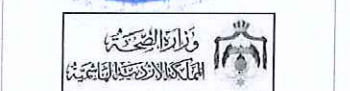
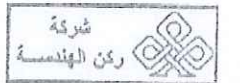
BOARD REF: DBF1 BOARD SIZE: 48 WAY TPNE LOCATION: FIRST FLOOR					CONTROLLED BY: 100A MCCB CABLE SIZE: 4X25mm2 CU/XLPE/PVC FED FROM: SMDB2				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20	330		
2	10	3X2.5	CU-PVC	LIGHTING	14+2	36+20		550	
3	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20			330
4	10	3X2.5	CU-PVC	LIGHTING	6+4+1	36+20+8	310		
5	10	3X2.5	CU-PVC	LIGHTING	15+2	36+20		580	
6	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20			330
7	10	3X2.5	CU-PVC	LIGHTING	3+3	36+100	410		
8	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20		330	
9	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20			330
10	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20	330		
11	10	3X2.5	CU-PVC	LIGHTING	10+7	20+8		260	
12	10	3X2.5	CU-PVC	LIGHTING	7+1	36+20			270
13	20	3X4	CU-PVC	SOCKETS	1+1	250+500	750		
14	20	3X4	CU-PVC	SOCKETS	1+1	250+500		750	
15	20	3X4	CU-PVC	SOCKETS	2+1	500+250			1250
16	20	3X4	CU-PVC	SOCKETS	2+1	500+250	1250		
17	20	3X4	CU-PVC	SOCKETS	2+1	250+500		1000	
18	20	3X4	CU-PVC	SOCKETS	2+1	500+250			1250
19	20	3X4	CU-PVC	SOCKETS	1+1	250+500	750		
20	20	3X4	CU-PVC	SOCKETS	2+1	500+250		1250	
21	20	3X4	CU-PVC	SOCKETS	2+2	250+500			1500
22	20	3X4	CU-PVC	SOCKETS	2	250	500		
23	20	3X4	CU-PVC	SOCKETS	2+1	250+500		1000	
24	20	3X4	CU-PVC	SOCKETS	1+1	250+500			750
25	20	3X4	CU-PVC	SOCKETS	2+1	500+250	1250		
26	20	3X4	CU-PVC	SOCKETS	1+1	250+500		750	
27	20	3X4	CU-PVC	SOCKETS	2+1	500+250			1250
28	20	3X4	CU-PVC	SOCKETS	2+1	500+250	1250		
29	20	3X4	CU-PVC	SOCKETS	3	250		750	
30	20	3X4	CU-PVC	SOCKETS	2+1	500+250			1250
31	20	3X4	CU-PVC	SOCKETS	2+1	500+250	1250		
32	20	3X4	CU-PVC	AC	1	3400		3400	
33	20	3X4	CU-PVC	AC	1	3400			3400
34	20	3X4	CU-PVC	AC	1	3400	3400		
35	20	3X4	CU-PVC	AC	1	2200		2200	
36	20	3X4	CU-PVC	AC	1	3400			3400
37	20	3X4	CU-PVC	AC	1	3400	3400		
38	20	3X4	CU-PVC	AC	1	3400		3400	
39	20	3X4	CU-PVC	AC	1	3400			3400
40	20	3X4	CU-PVC	AC	1	3400	3400		
41	20	3X4	CU-PVC	AC	1	2000		2000	
42	20			SPARE					
43	20			SPARE					
44	20			SPARE					
45	20			SPARE					
46	20			SPARE					
47	20			SPARE					
48	20			SPARE					
TOTAL LOAD PER PHASE (W)							18580	18220	18710
TOTAL CONNECTED LOAD (KW)							55.5		
DEMAND FACTOR							0.8		
TOTAL DEMAND LOAD (KW)							44.4		

BOARD REF: DBF2 BOARD SIZE: 30 WAY TPNE LOCATION: FIRST FLOOR					CONTROLLED BY: 63A MCCB CABLE SIZE: 5X16mm2 CU/XLPE/PVC FED FROM: SMDB2				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	10	3X2.5	CU-PVC	LIGHTING	9+5+3	20+8+36	330		
2	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20		330	
3	10	3X2.5	CU-PVC	LIGHTING	8+2	36+20			330
4	10	3X2.5	CU-PVC	LIGHTING	9	36	330		
5	10	3X2.5	CU-PVC	LIGHTING	12+3	36+20		500	
6	10	3X2.5	CU-PVC	LIGHTING	8+2	36+26			340
7	10	3X2.5	CU-PVC	LIGHTING	4+3	80+100	620		
8	10	3X2.5	CU-PVC	LIGHTING	11	36		400	
9	20	3X4	CU-PVC	SOCKETS	3	250			750
10	20	3X4	CU-PVC	SOCKETS	2+2	250+500	1500		
11	20	3X4	CU-PVC	SOCKETS	3	500		1500	
12	20	3X4	CU-PVC	SOCKETS	3	500			1500
13	20	3X4	CU-PVC	SOCKETS	1	250	250		
14	20	3X4	CU-PVC	SOCKETS	1+1	500+250		750	
15	20	3X4	CU-PVC	SOCKETS	1	250			250
16	20	3X4	CU-PVC	SOCKETS	3	500	1500		
17	20	3X4	CU-PVC	SOCKETS	2+3	500+250		1750	
18	20	3X4	CU-PVC	AC	1	3400			3400
19	20	3X4	CU-PVC	AC	1	3400	3400		
20	20	3X4	CU-PVC	AC	1	3400		3400	
21	20	3X4	CU-PVC	AC	1	3400			3400
22	20	3X4	CU-PVC	AC	1	2200	2200		
23	20	3X4	CU-PVC	AC	1	3400		3400	
24	20	3X4	CU-PVC	AC	1	2200			2200
25	20	3X4	CU-PVC	AC	1	2200	2200		
26	20					SPARE			
27	20					SPARE			
28	20					SPARE			
29	20					SPARE			
30	20					SPARE			
TOTAL LOAD PER PHASE (W)							12330	12030	12170
TOTAL CONNECTED LOAD (KW)							36.5		
DEMAND FACTOR							0.8		
TOTAL DEMAND LOAD (KW)							29.2		

BOARD REF: DB-UPS BOARD SIZE: 18 WAY TPNE LOCATION: GROUND FLOOR					CONTROLLED BY: 25A MCCB CABLE SIZE: 5X6mm2 CU/XLPE/PVC FED FROM: SMDB2				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	20	3X4	CU-PVC	SOCKET	2	500	1000		
2	20	3X4	CU-PVC	SOCKET	3	500		1500	
3	20	3X4	CU-PVC	SOCKET	3	500			1500
4	20	3X4	CU-PVC	SOCKET	2	500	1000		
5	20	3X4	CU-PVC	SOCKET	2	500		1000	
6	20	3X4	CU-PVC	SOCKET	2	500			1000
7	20	3X4	CU-PVC	SOCKET	1	500	500		
8	20	3X4	CU-PVC	SOCKET	1	500		500	
9	20	3X4	CU-PVC	SOCKET	1	500			500
10	20	3X4	CU-PVC	SOCKET	1	500	500		
11	20	3X4	CU-PVC	SOCKET	1	500		500	
12	20	3X4	CU-PVC	SOCKET	1	500			500
13	20	3X4	CU-PVC	SOCKET	1	500	500		
14	20			SPARE					
15	20			SPARE					
16	20			SPARE					
17	20			SPARE					
18	20			SPARE					
TOTAL LOAD PER PHASE (W)							3500	3500	3500
TOTAL CONNECTED LOAD (KW)							10.5		
DEMAND FACTOR							1.0		
TOTAL DEMAND LOAD (KW)							10.5		

BOARD REF: DBF3 BOARD SIZE: 24 WAY TPNE LOCATION: FIRST FLOOR					CONTROLLED BY: 40A MCCB CABLE SIZE: 5X10mm2 CU/XLPE/PVC FED FROM: SMDB2				
CKT. NO.	M.C.B RATING (AMP.)	WIRE SIZE (mm ²)	WIRE TYPE	LOAD DESCRIPTION	NO. OF POINTS	LOAD PER POINTS (W)	LOAD PER PHASE (W)		
							R	Y	B
1	10	3X2.5	CU-PVC	LIGHTING	3+3	36+100	410		
2	10	3X2.5	CU-PVC	LIGHTING	10+3	36+20		420	
3	10	3X2.5	CU-PVC	LIGHTING	9+5+1	36+20+8			430
4	10	3X2.5	CU-PVC	LIGHTING	5+2	36+20	220		
5	10	3X2.5	CU-PVC	LIGHTING	4+2	36+20		200	
6	20	3X4	CU-PVC	SOCKETS	3	250			750
7	20	3X4	CU-PVC	SOCKETS	5	250	1250		
8	20	3X4	CU-PVC	SOCKETS	3	250		750	
9	20	3X4	CU-PVC	SOCKETS	2+1	500+250			1250
10	20	3X4	CU-PVC	SOCKETS	2+1	500+250	1250		
11	20	3X4	CU-PVC	SOCKETS	3	250		750	
12	20	3X4	CU-PVC	SOCKETS	2+1	500+250			1250
13	20			SPARE					
14	20	3X4	CU-PVC	AC	1	1200		1200	
15	20	3X4	CU-PVC	AC	1	2200			2200
16	20	3X4	CU-PVC	AC	1	2200	2200		
17	20	3X4	CU-PVC	AC	1	2200		2200	
18	20	3X4	CU-PVC	AC	1	2200			2200
19	20	3X4	CU-PVC	AC	1	2200	2200		
20	20	3X4	CU-PVC	SOCKETS	2+2	250+500		1500	
21	20			SPARE					
22	20			SPARE					
23	20			SPARE					
24	20			SPARE					
TOTAL LOAD PER PHASE (W)							7530	7020	8080
TOTAL CONNECTED LOAD (KW)							22.6		
DEMAND FACTOR							0.8		
TOTAL DEMAND LOAD (KW)							18.1		

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

ELEC.PANELS

Prepared By :

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Consulting Engineers
AMMAN - JORDAN
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Website: www.ruqn.com

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CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

SCALE: NTS SHEET SIZE: A1
PLOT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-500 A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

شركة
مهندسة

وزارة الصحة
لجنة شراء الأشغال
التاريخ 1 / 1
مستشفى الأمير حمزة

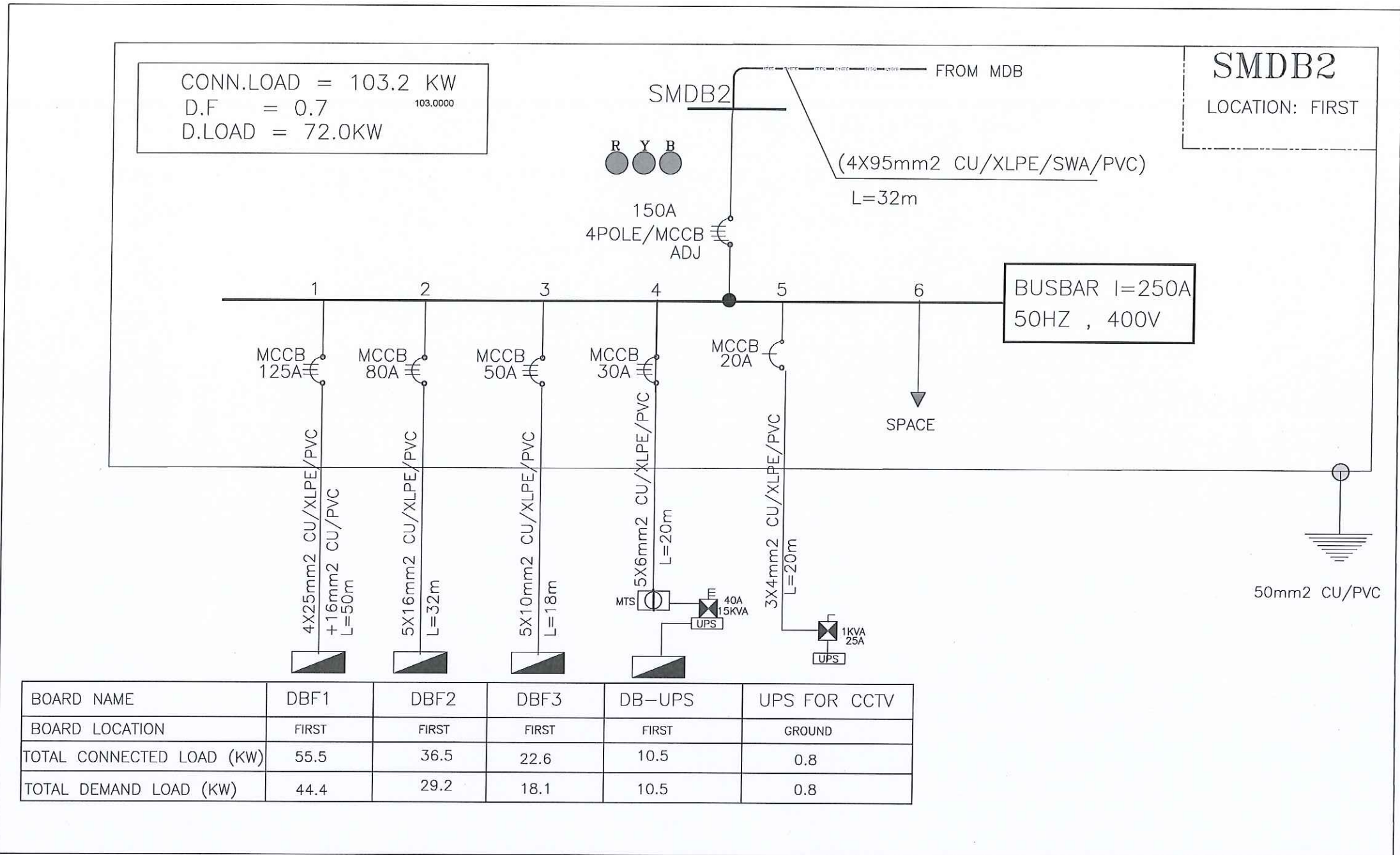
PROJECT OWNER :
وزارة الصحة
مستشفى الأمير حمزة
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

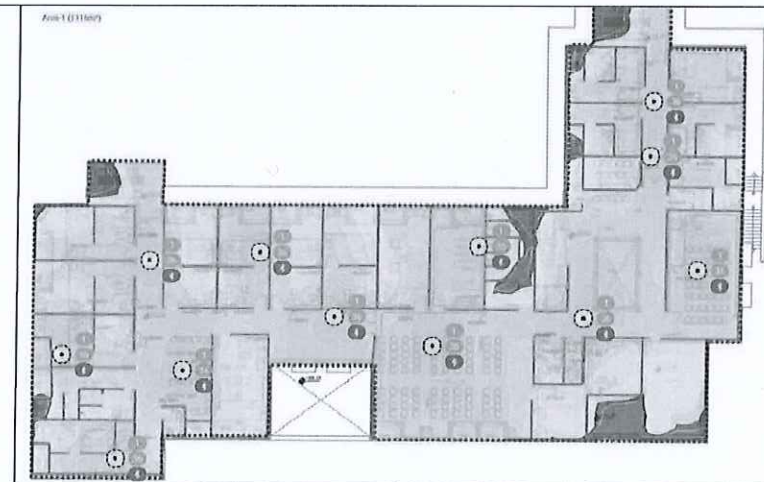
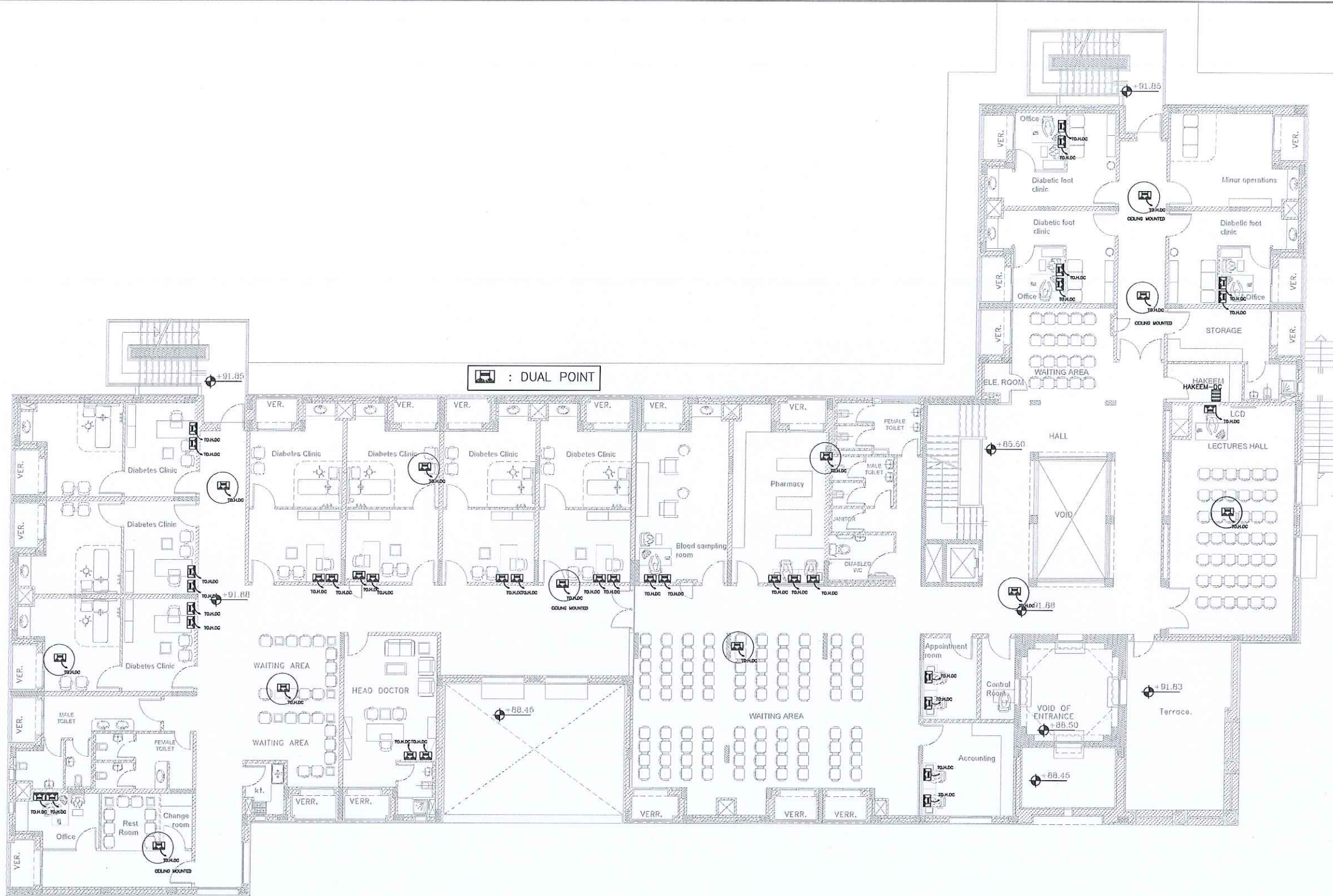
PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
ELEC.PANELS

Prepared By :
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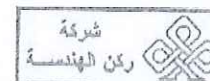
DESIGNED BY ENAS.J 50100
CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100
SCALE: 1/100 SHEET SIZE: A1
PLOT NO. BASH NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-501 A





NOTES :
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-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية المعمولة



REV. NO.	DATE	DESCRIPTION



DATA & TELE. SYSTEM
FIRST FLOOR

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DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100

SCALE: 1/100 SHEET SIZE: A1

PLAT NO.	BASIN NO.	CAD FILE
		SER_DC_X_REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	E-600

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة المهندس

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التاريخ / /
مستشفى الأمير حمزة

وزارة الصحة
السلطة الفلسطينية

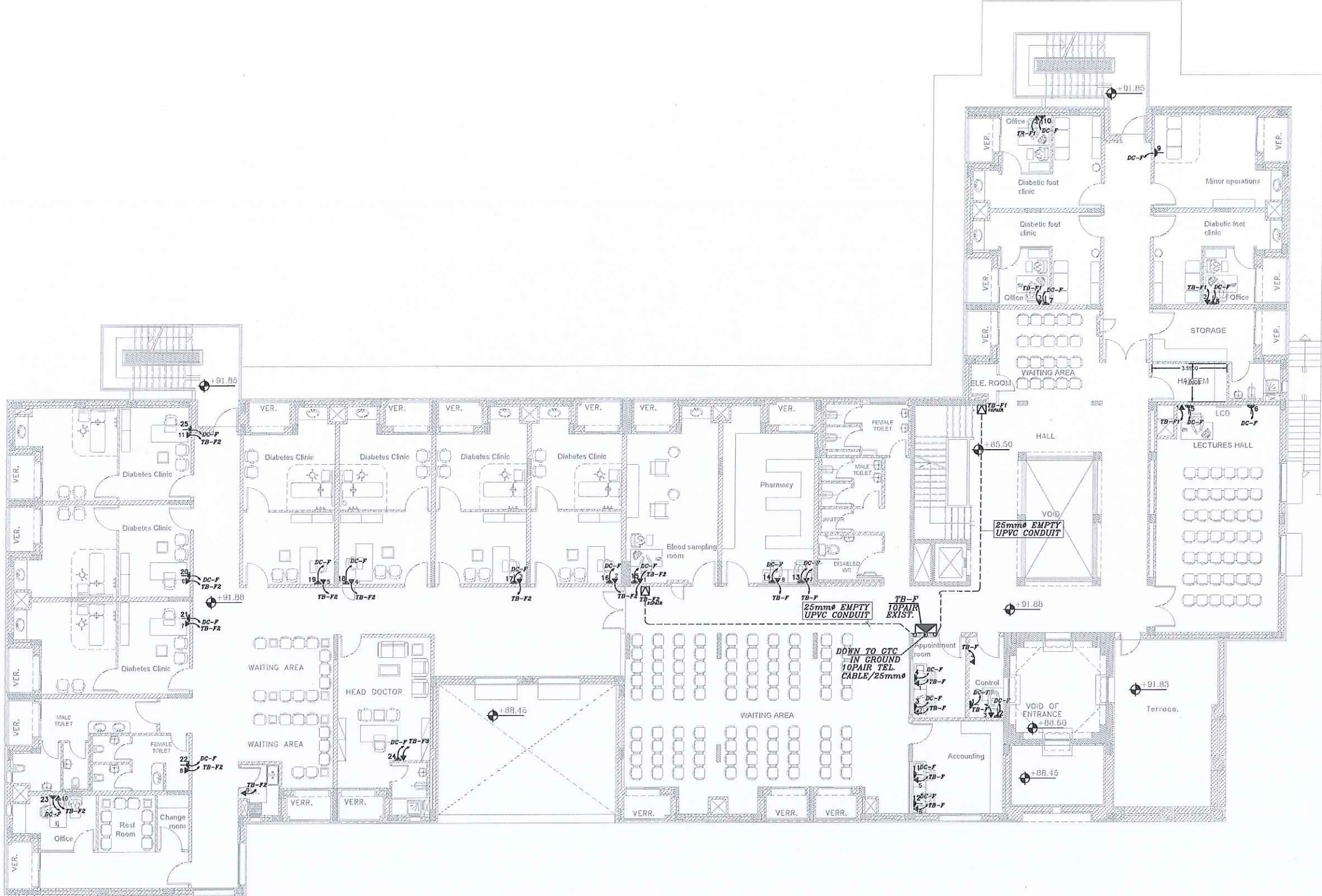
DATA & TELE. SYSTEM
FIRST FLOOR

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SCALE: 1/100 SHEET SIZE: A1

PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	E-601
		REV.
		A



تم التصميم حسب الكودات المعتمدة

DESIGNED BY	ENAS.J	50100
CHECKED BY	IBRAHIM.H	817
DRAWN BY	ENAS.J	50100
SCALE: 1/100		SHEET SIZE: A1
PLOT NO.	BASIN NO.	CAD FILE
		SRW_DC_X.REF_342
ISSUE DATE	PURCHASE NO.	REV.
MAR.2024	342-4	E-601 (2) A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION



وزارة الصحة
المملكة الأردنية الهاشمية

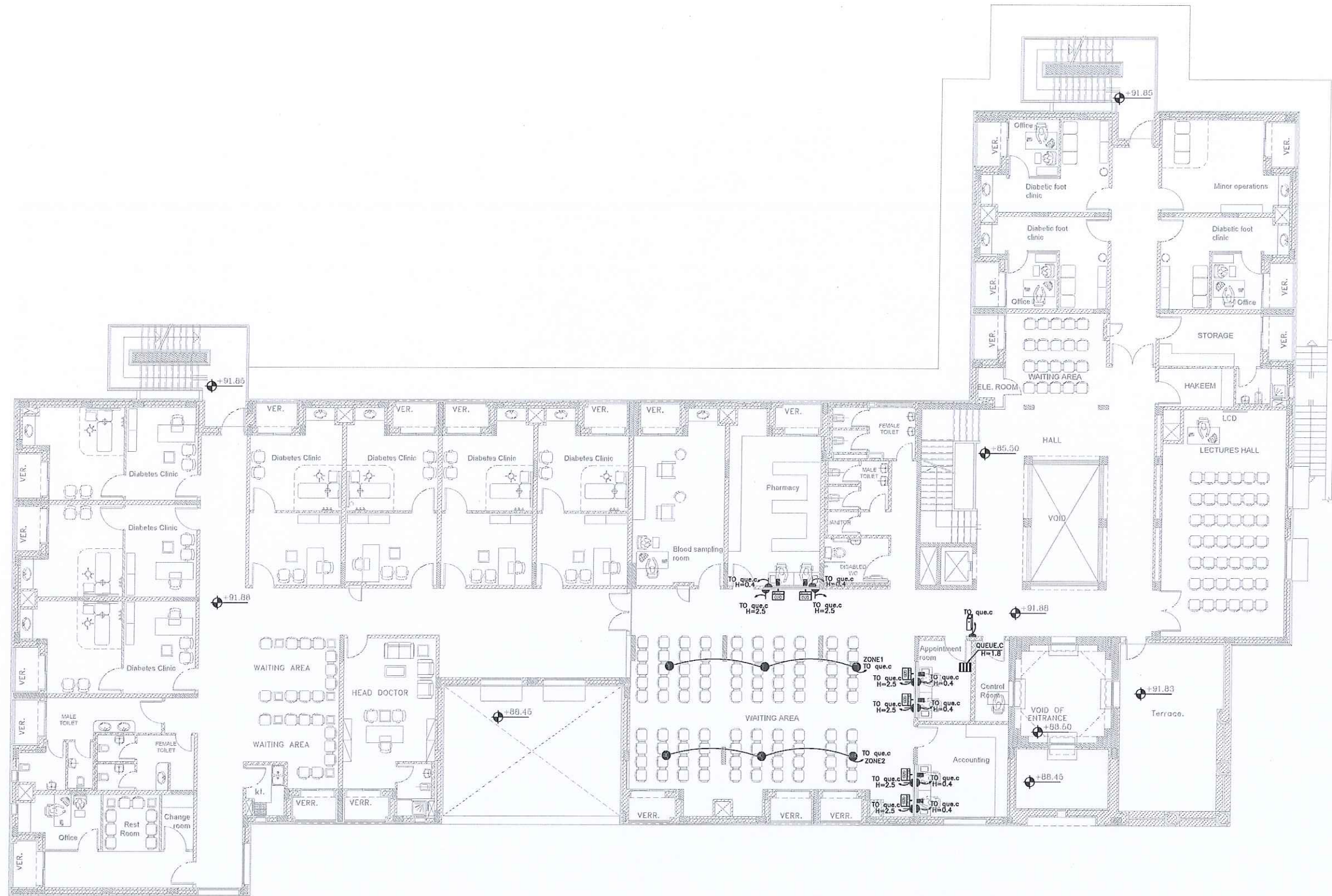
NUMBERING SYSTEM
FIRST FLOOR

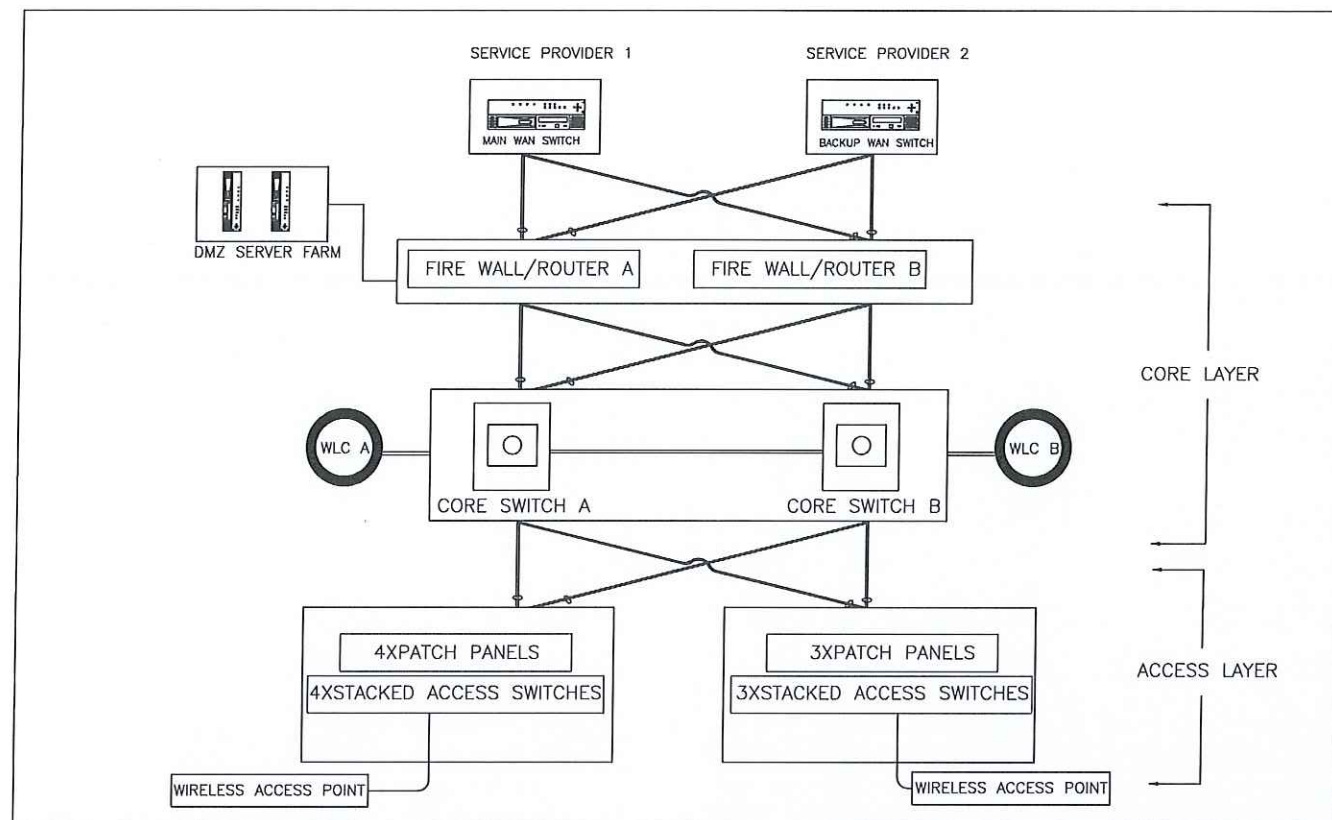
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CHECKED BY IBRAHIM.H 817
DRAWN BY ENAS.J 50100

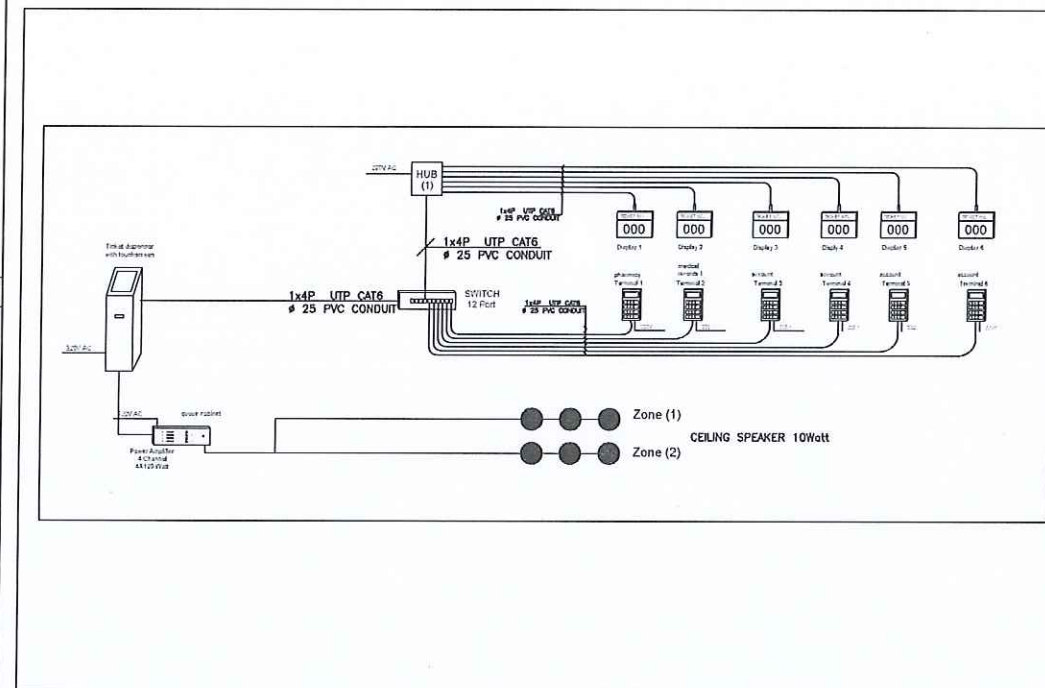
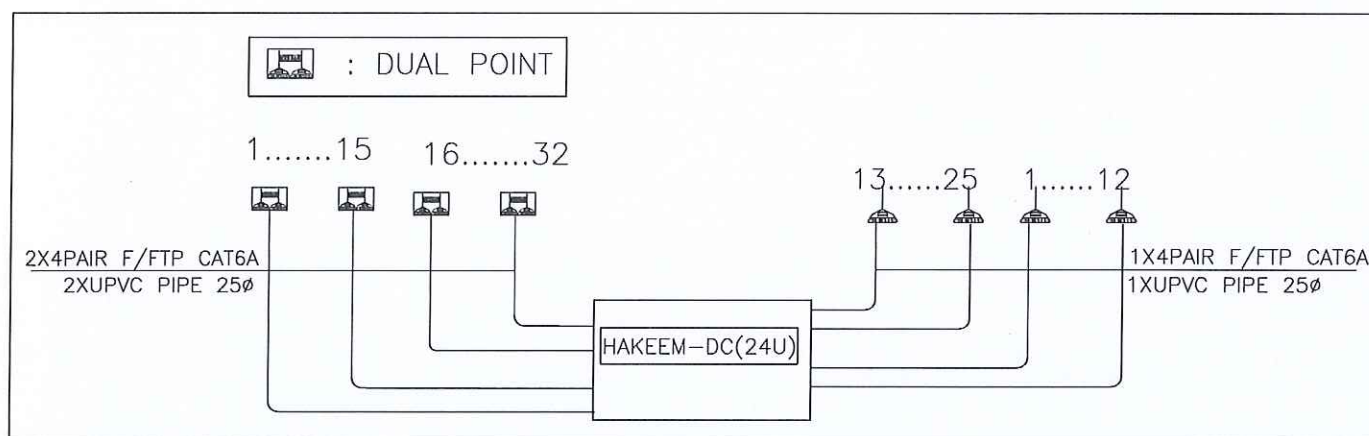
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FLY NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	E-602
		REV. A



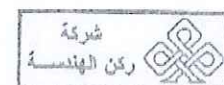


TYPICAL HAKEEM RISER I
FOR DIABETES



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
موجب التعليمات الفنية المسارية



REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة



DATA & TELE&
NUMBERING RISERS

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SCALE: 1/100 SHEET SIZE: A1

FLUT NO. BASIN NO. CAD FILE
SER_DC_X.REF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-603 A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
موجب التعليمات الفنية البارية

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التلقيح
مستشفى الأمير حمزة

وزارة الصحة
السلطنة الأردنية

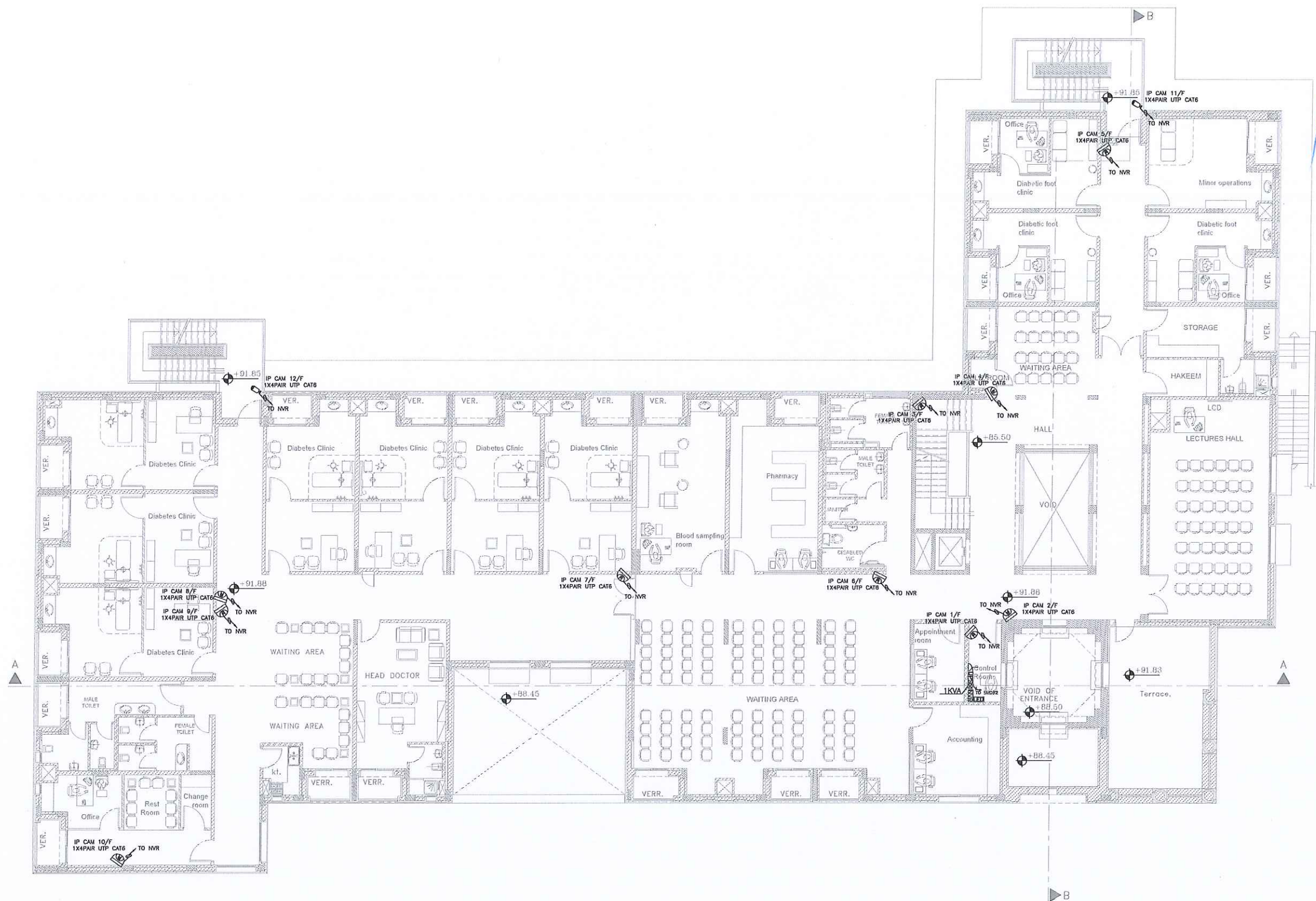
CCTV SYSTEM
FIRST FLOOR

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SCALE: 1/100 SHEET SIZE: A1

PLOT NO.	BASIN NO.	CAD FILE
		SER_DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	E-700
		REV. A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مستند التصميم الفني السابق

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION
1 / 1
وزارة الصحة
لجنة شراء الأشغال
التاريخ
مستشفى الأمير حمزة

وزارة الصحة
السلطة الوطنية للأمن

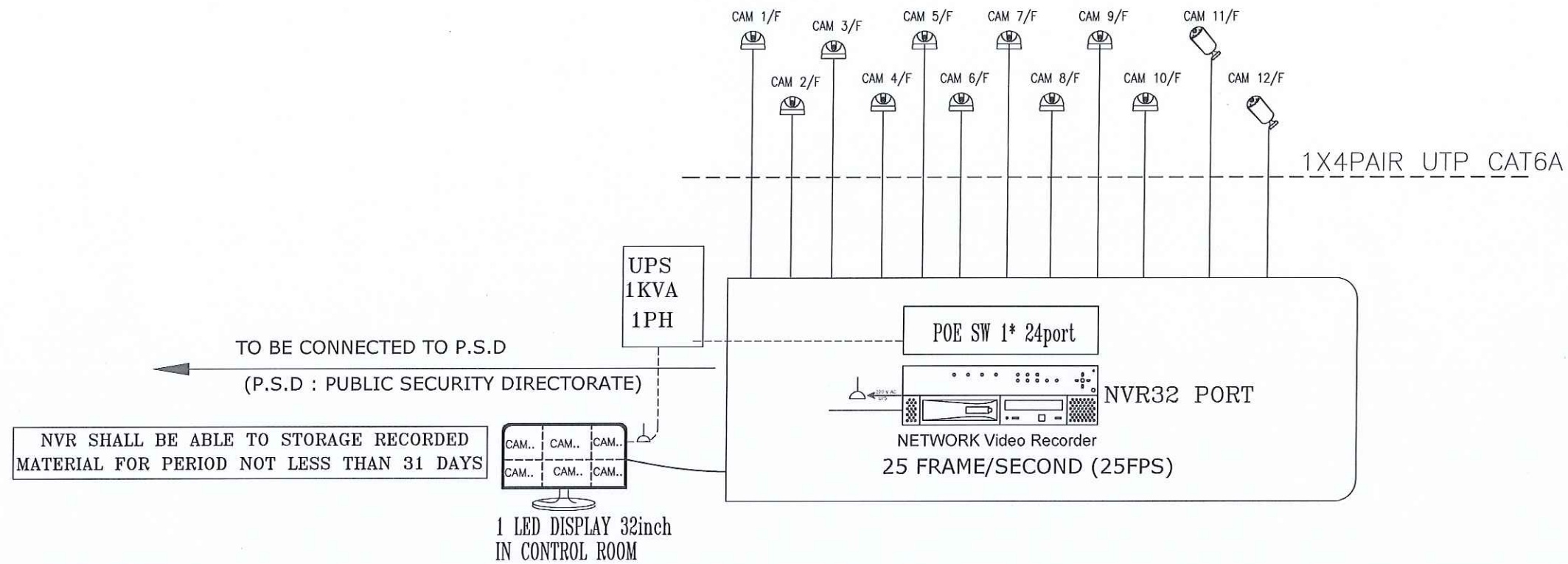
CCTV RISER

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SCALE: 1/100		SHEET SIZE: A1
FLUT NO.	BASIN NO.	CAD FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	E-701
		REV.
		A

CCTV RISER

ROOF FLOOR



FIRST FLOOR

LEGEND

—	1x4pair UTP CAT 6
	Outdoor IP Fixed Camera IP66
	Indoor IP Fixed ZOOM Camera

FOR ANY CAMERA , THE RESOLUTION NOT LESS THAN 2 MP

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة التصميمات الفنية السابقة

شركة
ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
لجنة شراء الأشغال
التأليف
مستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

FIRE ALARM SYSTEM
FIRST FLOOR

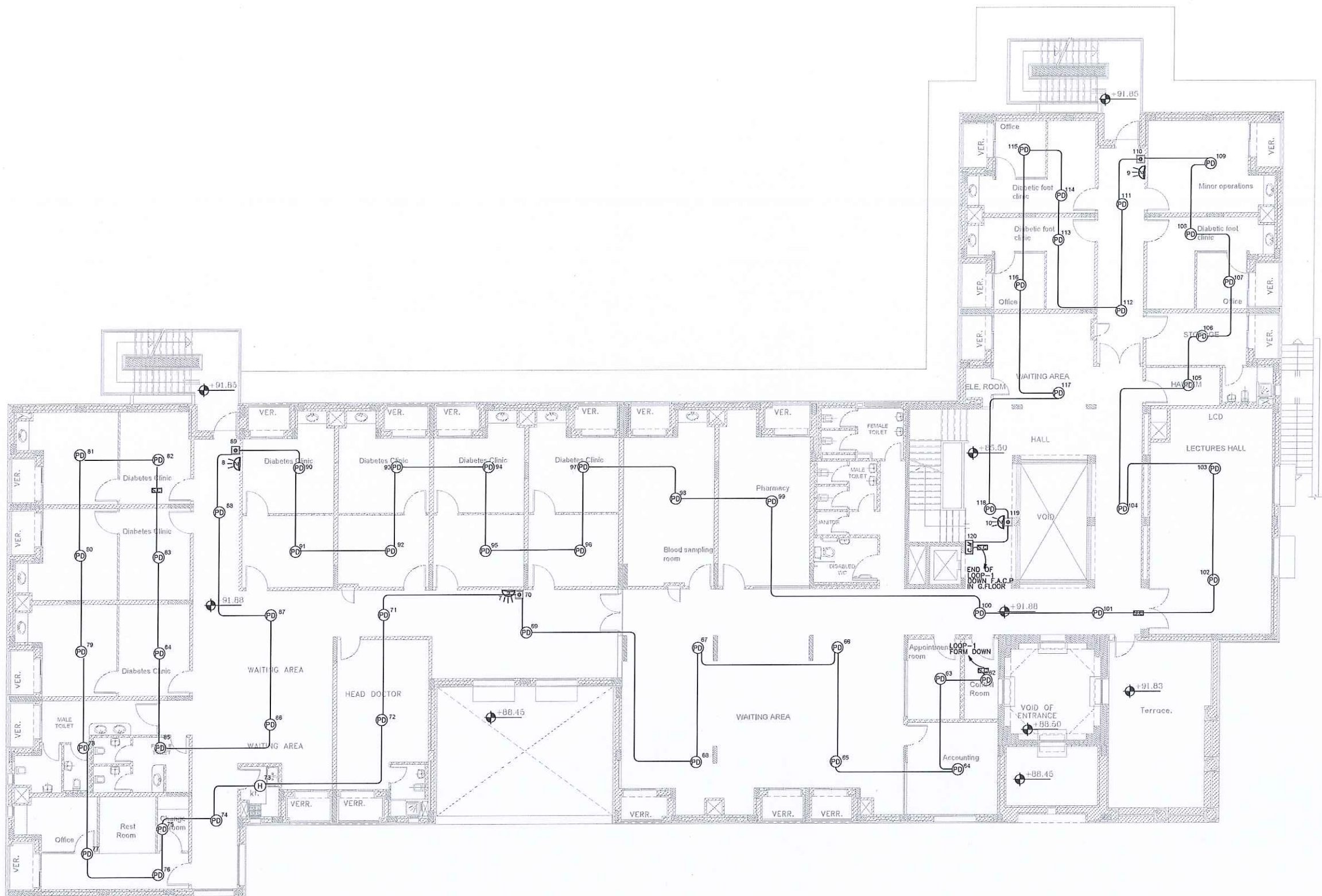
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SCALE: 1/100 SHEET SIZE: A1

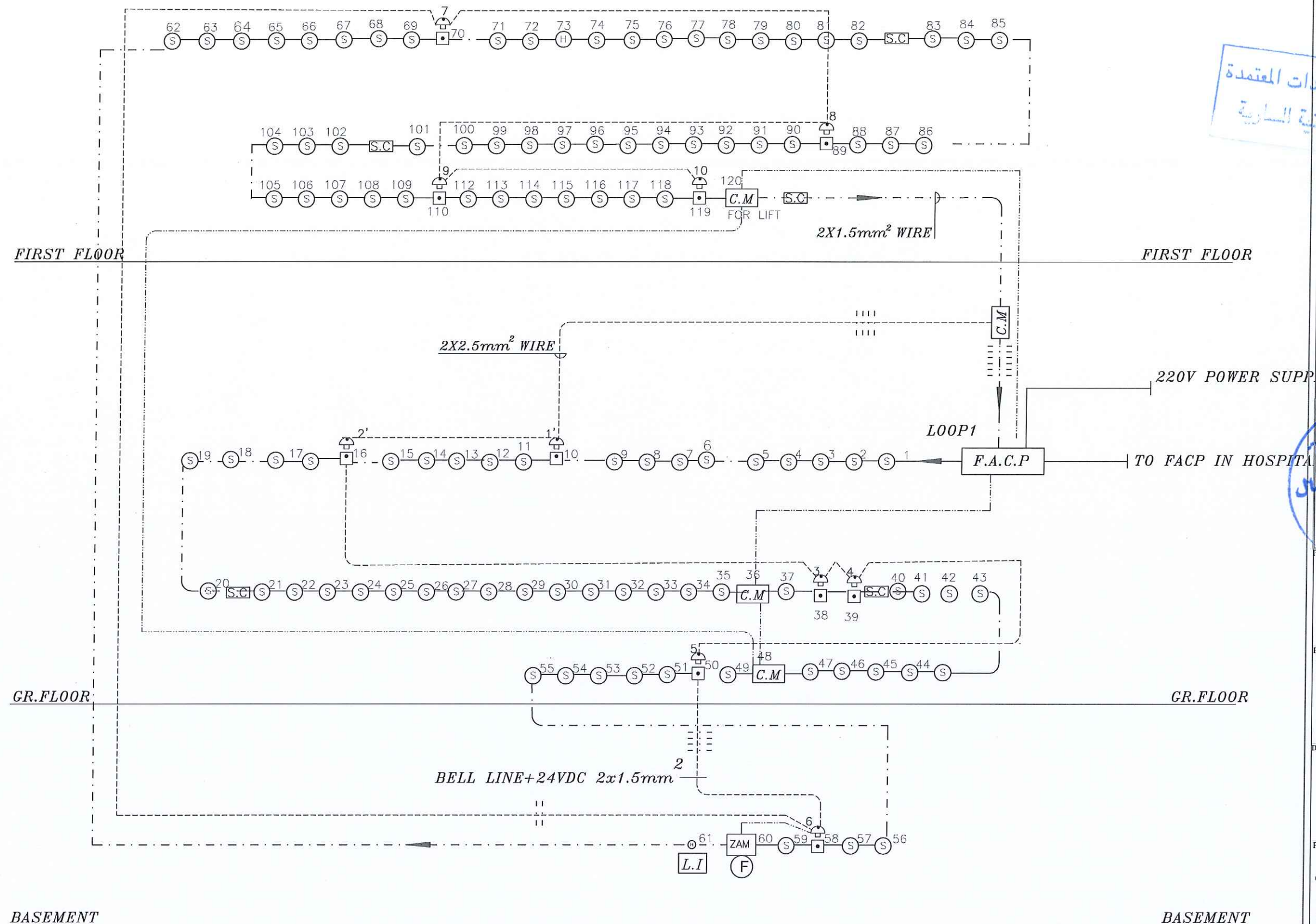
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-4 E-800 A



ROOF

ROOF

NOTES :
 -ALL DIMENSIONS ARE IN CENTIMETERS
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FIRE ALARM SYSTEM RISING DIAGRAM EXISTING

تم التصميم حسب الكودات المعتمدة
 بموجب التوجيهات الفنية السارية

شركة
 ركن الهندسة

REV. NO. DATE DESCRIPTION

وزارة الصحة
 لجنة شراء الأشغال
 الترخيص
 مستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
 Tender No. (2025/36)

DEPARTMENT OF ENDOCRINOLOGY
 AND DIABETES

DRAWING NAME :
 FIRE ALARM RISER

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SCALE: 1/100	SHEET SIZE: A1	
PLOT NO.	DRAWING NO.	CAD FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	E-801
		A

BLOOD BANK AND VARIOUS CLINIC RENOVATION

MECHANICAL DRAWINGS

التصميم حسب الكودات المعتمدة
موجب التعليمات الفنية السارية



ركن الهندسة
مهندسون مستشارون



ABBR.	SYMBOL	DESCRIPTION
-------	--------	-------------

mm		Millimeter
cm		Centimeter
At		At
&		And
F/A		From Above
F/B		From Below
T/A		To Above
T/B		To Below
UG		Under Ground
UT		Under Tile
US		Under Slab
H/L		High Level
L/L		Low Level
CL		Cover Level
IL		Invert Level
RL		Road Level
IE		Invert Elevation
HD		Hub Drain
HP		High Point
Ø		Diameter
KG/Cm2		Kilogram Per Square Centimeter
m2		Square meter
m3		Cubic Meter
CU		Copper
CONT		Continuation
CONN		Connection
CCW		City Cold Water
SWL		side walk level
RPM		Revolution Per Minute
SPR		Sprinkler
DN		Down
AFC		Above False Ceiling
CLL		Ceiling Level
NTS		Not To Scale
TYP		Typical
VAR		Variable
GSP		Galvanized steel pipe
BSP		Black steel pipe
SS		Stainless Steel
CPV		Chrome plated valve
UPVC		Unplastized ployvinyl chloride
CPVC		Chlorinated polyvinyl chloride
XLPE		Cross linked polyethylene pipe
ALD		Aluminum Duct
HWC		Hot Water Cylinder
FAL		Fresh Air Louver
CGS		Combination Grate And Sump.
WC		Water Closet
TP		Test Point
CP		Control Panel
KPA		Kilo Pascal
WHA		Water Hammer Arrestor
KW		Kilo Watt
L/S		Liter Per Second
CFM		Cubic Feet Minute
GPM		Gallon Per Minute
BTU/HR		Birthish Thermal Unit/Hour
NTS		Not To Scale
	►	Direction Of Flow
DN	—○	Pipe To / From Above
UP	—○	Pipe To / From Below

ABBR.	SYMBOL	DESCRIPTION
-------	--------	-------------

GV		Gate Valve
ST		Strainer
DRV		Double Regulating Valve
DRVF		Double Regulating Valve with Fixed Orifice plate
GLV		Globe valve
TH		Thermostat
BFP		Back Flow Preventer
NRV		Non Return Valve
OS&Y		Outside Screw And Yoke Valve
BFV		Butterfly Valve
BAV		Ball valve
NC		Normally Closed Valve
BV		Balancing Valve
3WMV		3 Way Motorized Valve
MV		2 Way motorized Valve
SV		Solenoid Valve
PR		Pressure Regulating Valve
PRFV		Pressure / Temperature Relief Valve
PRV		Pressure Reducing Valve
ERV		Expansion Relief Valve
PG		Pressure Gauge with Cock
T		Thermometer
FS		Flow Switch
WM		Water Meter
AAV		Automatic Air Vent with Cock
FLS		Float Switch
FLV		Float Valve
FV		Outside Screw & Yoke Valve
ACV		Alarm Check Valve
UN		Union
VB		Valve Box
VC		Valve Chamber
FL		Flange
TV		Test & Drain Valve
GDB		Auto Drain Valve
FLEX		Flexible Connection
LSV		Lockshield Valve

UNLESS OTHERWISE NOTED THE CONNECTIONS
FOR THE FIXTURE
UNITS WILL BE AS FOLLOWS .

ABBR.	SYMBOL	NAME	SIZE
KS		KITCHEN SINK	2" (50 mm)
JSL/S		JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV		HAND WASH BASIN	2" (50 mm)
B		BIDET	2" (50 mm)
WC		WATER CLOSET	4" (110 mm)
SH		SHOWER TRAY	2" (50 mm)
BT		BATH TUB	2" (50 mm)
UR		URINAL	2" (50 mm)
WM		WASHING MACHINE	2" (50 mm)
D/W		DISH WASHER	2" (50 mm)
WCL		WATER COOLER	2" (50 mm)
FD		FLOOR DRAIN	3" (75 mm)
FD		FLOOR DRAIN	4" (110 mm)

ABBR.	SYMBOL	DESCRIPTION
-------	--------	-------------

WP	⬤	Waste Pipe
SP	⬤	Soil Pipe
VP	⬤	Vent Pipe
WP/UT	——	Waste Pipe Under Tile & Under Ground
WP/US	——	Waste Pipe Under Slab & Above False Ceiling
SP/UT	——	Soil Pipe Under Tile & Under Ground
SP/US	——	Soil Pipe Under Slab & Above False Ceiling
VP/UT	——	Vent Pipe Under Tile & Under Ground
VP/US	——	Vent Pipe Under Slab & Above False Ceiling
DP	——	Drain Pipe (Soil & Waste)
RWP	——	Rain Water Pipe
CWS	-----	Cold Water Supply
HWS	-----	Hot Water Supply
HWR	——	Hot Water Return
FWP	——	Flash Water Pipe
PW	——	Purified Water
SW	——	Soft Water
HSS	——	Hot Soft Water Supply
HSR	——	Hot Soft Water Return
SCON	——	Steam Condensate Pipe
SIP	——	Swimming Pool Inlet Pipe
SDP	——	Swimming Pool Drain Pipe
SVP	——	Swimming Pool Vacuum Pipe
LPG	——	LPG Pipe
GAS	——	GAS Pipe
NG	——	NG Pipe
CA	——	Compressed Air Pipe
ST	——	Steam Pipe
MED	——	Medical Air 4 Bar Pipe
O2	——	Oxygen (O2) Pipe
N2O	——	Nitrous-Oxide (N2O) Pipe
SCAV	——	Scavenging Pipe
SURG 7	——	Surgical 7 Bar Pipe
VAC	——	Vacuum Pipe
FD	■	Floor Drain
FCO	■	Floor Clean out
CO	⌘	Suspended / Wall Clean Out
MH	⊙	Manhole
MH	⊙	Manhole
AR	▢	Area Drain
RVC	⊕	Roof Vent Cap
RD	⬢	Roof Drain / Balcony Drain
RS	■	Rain Water Stack
GT	□ ⊙	Gully Pit
GP	□ ⊙	Gravel Pit
GI	□	Grease Interceptor
RWG	▢	Rain Water Grit
NUP	▢	Neutralization Pit
OL	⊕	Oil Interceptor
LI	⊕	Lint Interceptor
HS	⚡	Hand Spray Tap
WMS	⚡	Water Meter Set
AVP	⊖	Fixture outlet
FWS	⚡	Anti Vortex Plate
PW	⚡	Flash Water Switch
SVI	⬢	Purified Water Outlet
SVO	⬢	Swimming Pool Inlet
SGO	⬢	Swimming Pool Vacuum Outlet
SDG	⬢	Swimming Gutter Overflow
WDB	⬢	Swimming Pool Drain Grill
WDB	60cm	Water Distribution Box
WDB	80cm	Water Distribution Box
WDB	100cm	Water Distribution Box
ASE	⬢	Air Separator
EW-H-02	⬢	Electric Water Heater (50 L)
EW-H	⬢	Electric Water Heater (Vertical)
HWC	⬢	Hot Water Cylinder
WSOF	⬢	Water Softener
WSF	⬢	Water Sand Filter
ROU	⬢	RO Unit
BDF	⬢	Sediments Filter
UF	⬢	Ultraviolet Filter
P	⬢	Lifting Pump
BP	⬢	Water Booster Pump
CP	⬢	Circulation Pump
HP	⬢	Hot Water Pump
WLP	⬢	Gray Water Lifting Pump
WL	⬢	Fish Water Lifting Pump
SP	⬢	Sump Pump
PRP	⬢	Pressurization Pump
DOSP	⬢	Dosing Pump
H	⬢	Symbol Pump Horizontal
V	⬢	Symbol pump vertical
UBP	⬢	Submersible Pump
UMP	⬢	Sump Pit Pump

CO	co	Carbon Monoxide
----	----	-----------------

LM		Meter (Water, LPG, Energy)
REG		LPG Regulator
LO		LPG Outlet
D		Gas Leak Detector
SG		Single Gas-Compressed Air Pipe
DGC		Double Gas-Compressed Air Pipe
COMP		Compressor
GDB		Gas Distribution Box
		Ball Valve & Regulator
WT		Polyethylene Water Tank
WT		Galvanized Steel Water Tank
		Water Drain Dome Type
IWH		Instant Water Electrical heater
SUBP		Submersible Pump

ABBR.	SYMBOL	DESCRIPTION
-------	--------	-------------

FF	—	Main Fire Pipe
SFP	—	Sprinkler Fire Pipe
DFP	—	Drain Fire Pipe
PV		Pressure Vessel
SC		2-way Fire Department Connection
SC		4-way Fire Department Connection
LV		Landing Valve
ZCV		Zone Control Valve
SG		Sight Glass
FH		Fire Hydrant
		Upright Sprinkler
		Pendent Sprinkler
		Pendent Sprinkler Concealed Type
		Side wall Sprinkler
		ESFR Pendent Sprinkler
	—	Ø200 FIRE FIGHTING PIPE
	—	Ø150 FIRE FIGHTING PIPE
	—	Ø100 FIRE FIGHTING PIPE
	—	Ø80 FIRE FIGHTING PIPE
	—	Ø65 FIRE FIGHTING PIPE
	—	Ø50 FIRE FIGHTING PIPE
	—	Ø40 FIRE FIGHTING PIPE
	—	Ø32 FIRE FIGHTING PIPE
	—	Ø25 FIRE FIGHTING PIPE
	×	U hook Support
	—	Hanger Support
	—	Side Wall Support
FE-1		Portable Fire Extinguisher (Dry Powder)
FE-2		Portable Fire Extinguisher (CO2)
FE-3		Portable Fire Extinguisher (Dry Powder)
FF		Fuel Filter
DPV		Dry Pipe Valve
FJP		Fire Fighting Pump
FJP		Fire Jockey pump
FHC		Fire Hose Cabinet
		Fire Hose Cabinet & Landing Valve
FHR		Fire Hose Rack Cabinet

ABBR.	SYMBOL	DESCRIPTION
-------	--------	-------------

RAD	—	Supply Air Duct
RAD	—	Return Air Duct
FAD	—	Fresh Air Duct
EAD	—	Exhaust Air Duct
CHWS	—	Chilled Water Supply Pipe
CHWR	—	Chilled Water Return Pipe
HTGS	—	Heating Supply Pipe
HTGR	—	Heating Return Pipe
CON	—	Condensate Drain Pipe
REF	—	Refrigerant Pipe
SU	—	Fuel Pipe
FD		Supply Ceiling Diffuser
RD		Return Ceiling Diffuser
ED		Exhaust Ceiling Diffuser
RG		Return Grille
EG		Exhaust Grille
SR		Supply Air Register (Side Wall)
RR		Return Air Register (Side Wall)
ER		Exhaust Air Register (Side Wall)
HEF		Terminal HEPA Filter
EGG		EGG Grate Grill
DG		Door Grill
UC		Under cut
FTFG		Transfer Grill
LV		Lower With Gravity Shutter
SLV		Disc Valve
DLD		Supply Linear Diffuser
RLD		Return Linear Diffuser
DLR		Dummy Linear Diffuser
ACR		Air Curtain
VAV		Variable Air Volume
AD		Access Door
—		Flexible Connection Duct
—		Flexible Connection Duct
VCD		Volume Control Damper
—		Fire Damper
MVD		Motorized Volume Damper
SFD		Smoke Fire Damper
—		Thermostat (With On-Off Switch)
CO2		Carbon Dioxide Sensor
—		Exhaust Fan-Window Type
XCF		Exhaust Fan-Duct Line
MAF		Smoke Make Fan
RMF		Smoke Relief Fan-Duct Mounted
PI		Split Unit - Indoor
PO		Split Unit - Outdoor
NAC		Window Type Air Conditioner
—		Cassett Split Unit - Indoor
EF		Upblast Smoke Extract Fan
SUO		Cassette Split Unit - Outdoor
CDLD		High Capacity Drain Louver Diffuser
COU		Fan Convactor Unit
CU		Fan Coil Unit
CU		Fan Coil Unit
—		Ducted Split Unit Indoor
HU		Air Handling Unit
AC		Package Unit
H		Chillers
RFO		Variable Refrigerant Flow-Outdoor
HU		Air Handling Unit with Run around
HE		Plate Heat Exchanger
DD		Back Draft Damper
EH		Electrical Heater
AT		Sound Attenuate
M		Bell Mouth Opening
F		Bag Filter
F		Flat Filter
F		Secondary Filter
F		Pre Filter
DF		Odor Filter
D		Motorized Damper
C		Cooling Coil
—		Radiator
WB		Hot Water Distribution Box
WB		Hot Water Distribution Box
WB		Hot Water Distribution Box
—		Boiler
GP		Heating Pump
—		Chilled Water Pump
WSP		Chilled Water Secondary Pump
WPP		Chilled Water Primary Pump
PI		Ceiling Mounted Split Unit - Indoor
—		Y-Connection

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

REV. NO.	DATE	DESCRIPTION			
KEY PLAN		 			
PROJECT OWNER :					
 PRINCE HAMZA HOSPITAL Tender No. (2025/36)					
PROJECT NAME :					
BLOOD BANK AND VARIOUS CLINICS RENOVATION					
DRAWING NAME :					
LEGEND & SYMBOLS					
Prepared By :					
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SCALE: NTS					
SHEET SIZE: A1					
JOB NO.					
BIDDING NO.					
DRAWING NO.					
SERV. DATE					
PROJECT NO.					
DRAWING NO.					
REV.					
AR.2024					
342-3					
B3-M-000					
A					

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعمارية
بموجب التعليمات الفنية السارية



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

DRAINAGE LAYOUT
GROUND FLOOR

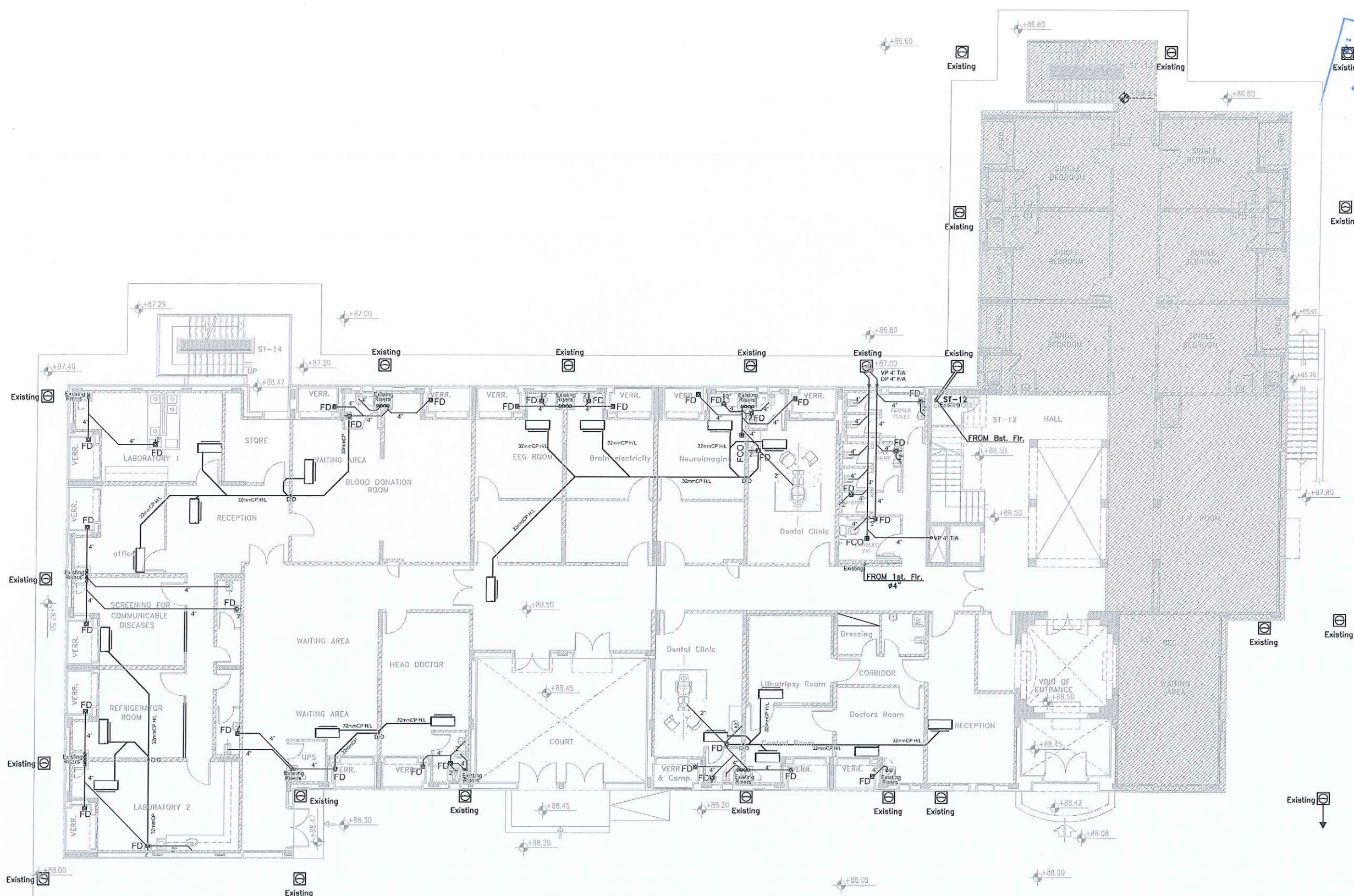
Prepared By :

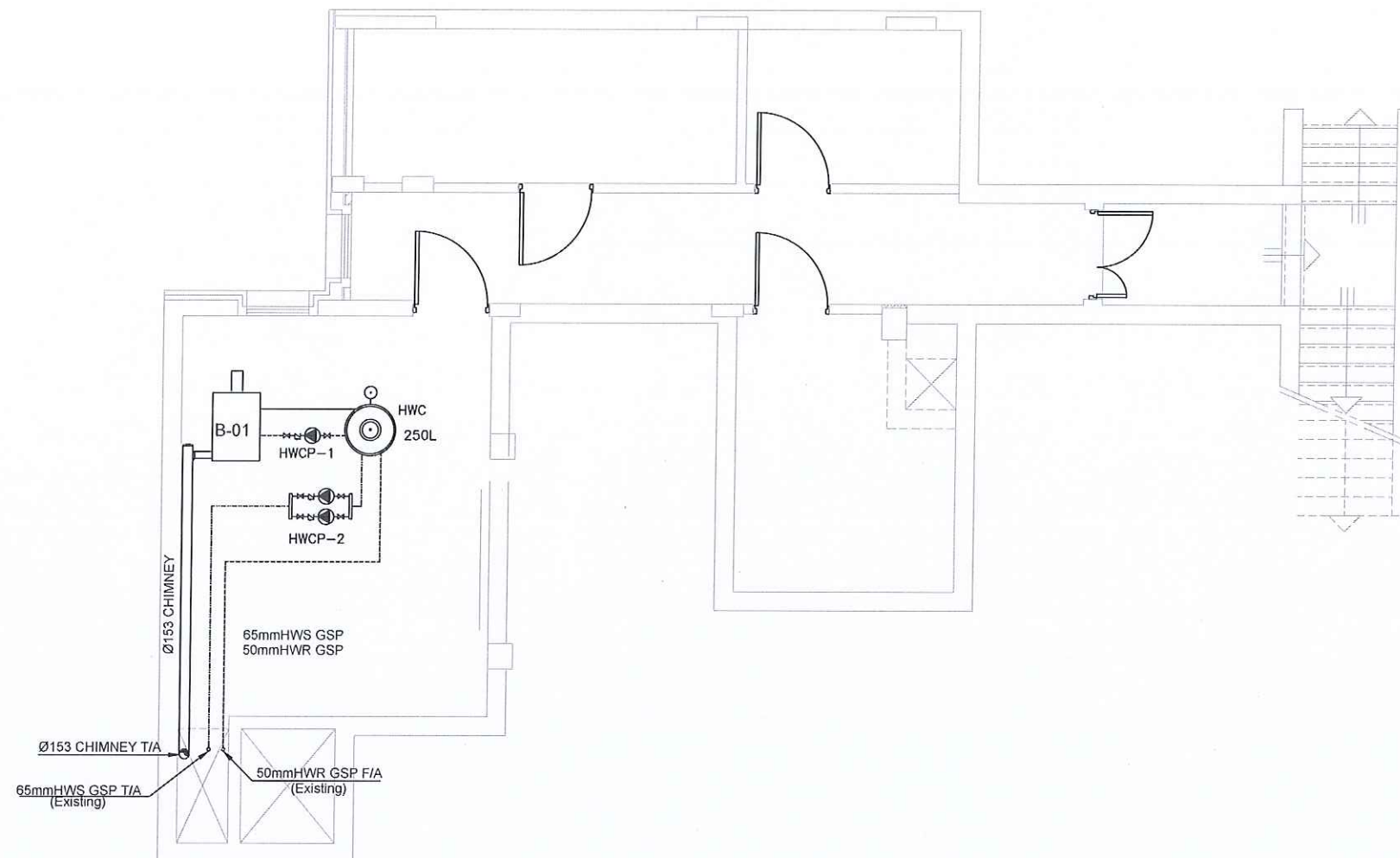
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SCALE: 1/100 SHEET SIZE: A1

PLANT NO.	BASIN NO.	CAD FILE	
		SER_DC_XREF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-3	B3-M-101	A





EQUIPMENTS SCHEDULE:-

REF.	DESCRIPTION	LOCATION	QTY.	TYPE	PARAMETERS	ELECTRICAL
HWCP-1	HOT WATER CIRCULATOR PUMP	BOILER ROOM	1	IN LINE	0.3 L/S, 8m H	0.4 KW/220 V
HWCP-2	HOT WATER CIRCULATOR PUMP	BOILER ROOM	2 DUTY ALTERNATING	IN LINE	2.3 L/S, 25m H	1.5 KW/220 V

B-01	NO.	
BOILER Qt.	Units	1
Boiler Capacity.	WATT	35000
Boiler(hot water) total flow	l/s	0.30
Oil flow rate	l/h	2
Expansion Tank Size	L	Existing
Hot Water Cylinder Capacity	L/h	0
Chimney Dia.	inch	6
Fuel Tank Size	L	Existing
Hot Water Supp. Collector dia.	mm	00
Hot Water Return. Collector dia.	mm	00

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
يوجب التعليمات الفنية السارية



PROJECT OWNER
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
BLOOD BANK AND VARIOUS CLINICS RENOVATION

DRAWING NAME :
WATER LAYOUT BASEMENT FLOOR

Prepared By :
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DRAWN BY SHADI B. 8706

SCALE: 1/50 SHEET SIZE: A1

PLAT NO.	REVISION NO.	CAD FILE
		SER_DC_X-REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-3	B3-M-201

WDB'S SCHEDULE:-

WDB'S No.	LOCATION	No. OF COLLECTORS	No. OF OPENINGS	COLLECTOR SIZE	CABINET SIZE (LENGTHXHEIGHTXDEPTH)	QTY.
WDB-01	GROUND FLOOR	2	3COLD/1HOT	20/16	600*600*100	1
WDB-02	GROUND FLOOR	2	2COLD/2HOT	20/20	600*600*100	1
WDB-03	GROUND FLOOR	2	6COLD/3HOT	25/20	600*600*100	1
WDB-04	GROUND FLOOR	2	9COLD/3HOT	25/20	800*600*100	1
WDB-05	GROUND FLOOR	2	7COLD/3HOT	25/20	600*600*100	1
WDB-06	GROUND FLOOR	2	5COLD/2HOT	25/20	600*600*100	1
WDB-07	GROUND FLOOR	2	4COLD/2HOT	25/20	600*600*100	1
WDB-08	GROUND FLOOR	2	2COLD/2HOT	20/20	600*600*100	1
WDB-09	GROUND FLOOR	2	7COLD/2HOT	25/20	600*600*100	1

NOTES :

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
يسري جميع التعليمات الفنية السارية



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

WATER LAYOUT
GROUND FLOOR

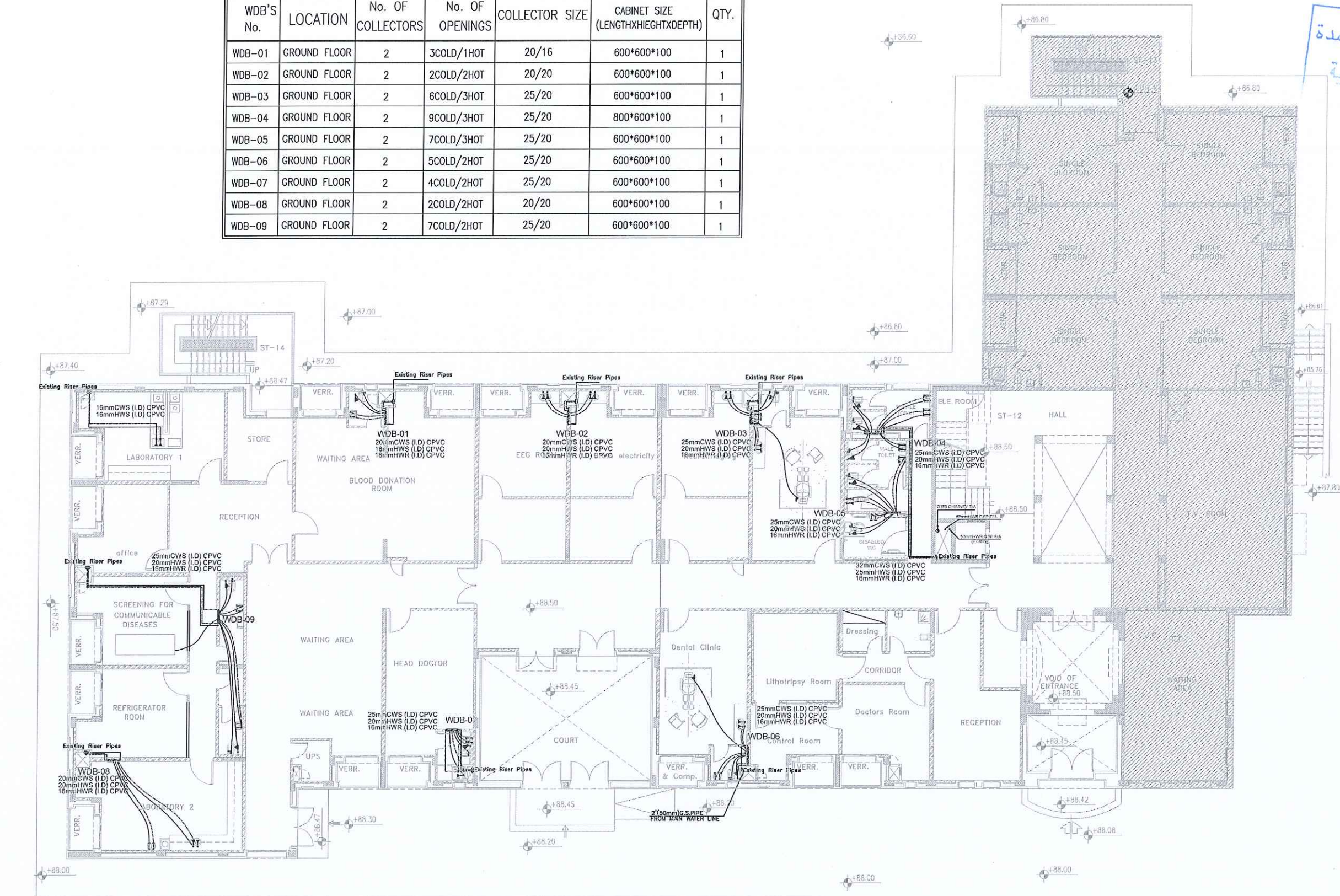
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DRAWN BY SHADI B. 8706

SCALE: 1/100 SHEET SIZE: A1

FILE NO.	DRAWING NO.	CAD FILE	
		SER_DC_XREF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-3	B3-M-202	A



NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعمدة
يترجى التلميحات الفنية "سارية"

REV. NO. DATE DESCRIPTION

KEY PLAN
وزارة الصحة
لجنة شراء الأشغال
التاريخ / /
مستشفى الأمير حمزة

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

HVAC LAYOUT
GROUND FLOOR

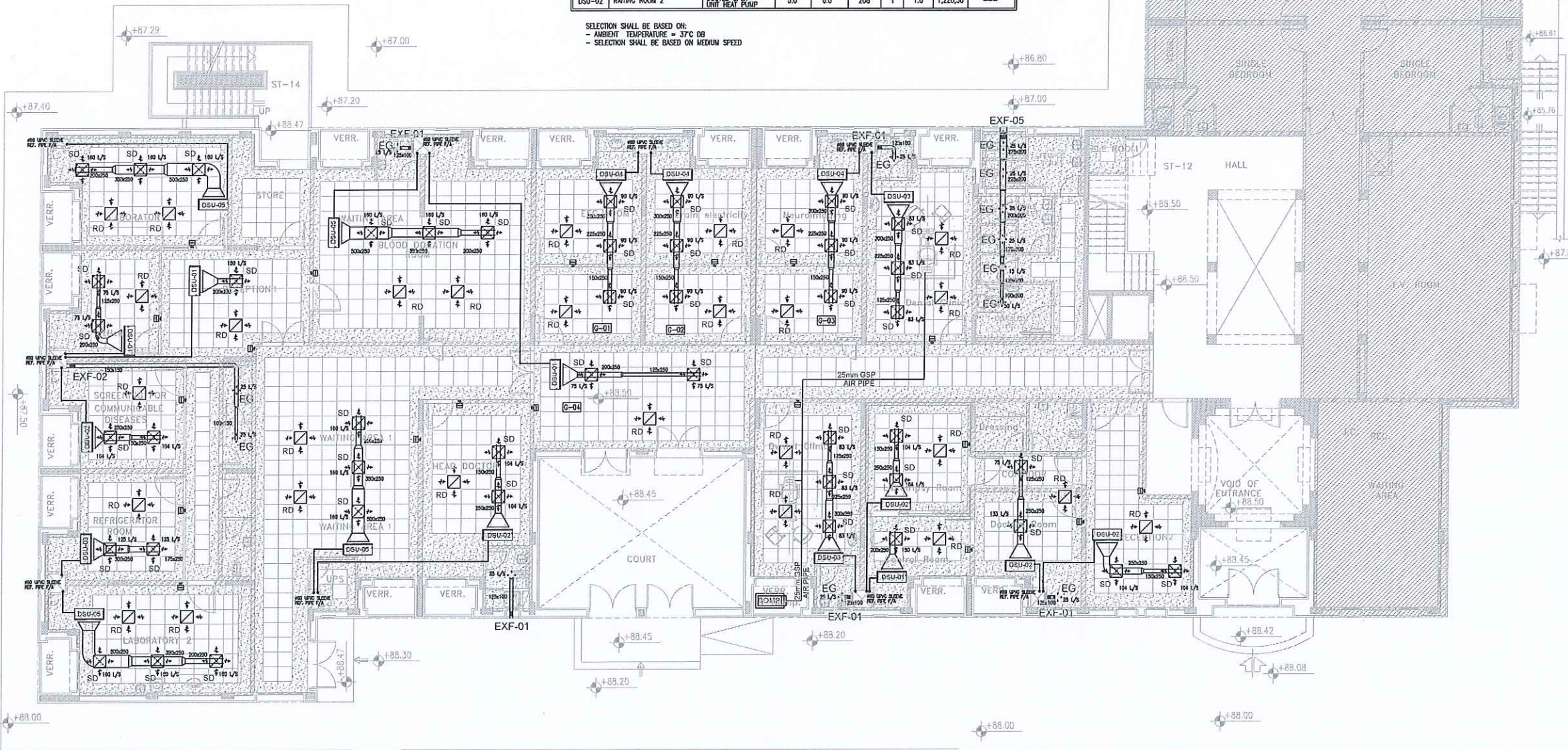
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PLOT NO. BASH NO. CAD FILE
SER_DC_XREF_342
DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 B3-M-401 A

AIR CONDITIONING INDOOR UNIT / GROUND FLOOR									
INDOOR A/C No.	SERVED AREA	TYPE	COOLING LOAD (KW)	HEATING LOAD (KW)	AIR FLOW (L/S)	QTY	POWER (KW)	PHV/HZ	NOTES
DSU-05	BLOOD DONATION ROOM	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4	1,220,50	---
DSU-04	BRAIN ELECTRICITY	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2	1,220,50	---
DSU-03	DENTAL CLINIC 1	DUCTED SPLIT UNIT HEAT PUMP	6.0	7.0	250	1	2.0	1,220,50	---
DSU-03	DENTAL CLINIC 2	DUCTED SPLIT UNIT HEAT PUMP	6.0	7.0	250	1	2.0	1,220,50	---
DSU-04	ECG ROOM	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2	1,220,50	---
DSU-01	GOA	DUCTED SPLIT UNIT HEAT PUMP	3.5	4.0	150	1	1.1	1,220,50	---
DSU-02	DOCTOR ROOM	DUCTED SPLIT UNIT HEAT PUMP	5.0	6.0	208	1	1.6	1,220,50	---
DSU-05	LABORATORY 1	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4	1,220,50	---
DSU-05	LABORATORY 2	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4	1,220,50	---
DSU-04	NEUROIMAGING	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2	1,220,50	---
DSU-01	OFFICE	DUCTED SPLIT UNIT HEAT PUMP	3.5	4.0	150	1	1.1	1,220,50	---
DSU-02	LITHOTRIPSY ROOM	DUCTED SPLIT UNIT HEAT PUMP	5.0	6.0	208	1	1.6	1,220,50	---
DSU-01	RECEPTION 1	DUCTED SPLIT UNIT HEAT PUMP	3.5	4.0	150	1	1.1	1,220,50	---
DSU-02	RECEPTION 2	DUCTED SPLIT UNIT HEAT PUMP	5.0	6.0	208	1	1.6	1,220,50	---
DSU-04	REFRIGERATOR ROOM	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2	1,220,50	---
DSU-01	CONTROL ROOM	DUCTED SPLIT UNIT HEAT PUMP	3.5	4.0	150	1	1.1	1,220,50	---
DSU-02	SCREENING FOR COMMUNICABLE DISEASES	DUCTED SPLIT UNIT HEAT PUMP	5.0	6.0	2.8	1	1.6	1,220,50	---
DSU-05	WAITING ROOM 1	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4	1,220,50	---
DSU-02	WAITING ROOM 2	DUCTED SPLIT UNIT HEAT PUMP	5.0	6.0	208	1	1.6	1,220,50	---

SELECTION SHALL BE BASED ON:
- AMBIENT TEMPERATURE = 37°C DB
- SELECTION SHALL BE BASED ON MEDIUM SPEED

MATERIALS	
	GYPSUM BOARD WATER RESISTANT
	GYPSUM BOARD REGULAR ROOM VENTILATING BACK ALL MATERIALS



EXHAUST & FRESH FANS SCHEDULE / GROUND						
FAN TYPE	QUANTITY	FLOW RATE L/S	ESTIM. STATIC PRESSURE Pa	ELECTRICAL DATA		
				PWR. W	Hz	Phase
EXF-01	5	25	10	20	50	1
EXF-02	1	50	25	60	50	1
EXF-05	1	165	45	80	50	1
REMARKS						
DUCTED - IN - LINE						
DUCTED - IN - LINE						
DUCTED - IN - LINE						

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
يخضع التصميمات الفنية للموافقة



PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :

FIRE FIGHTING LAYOUT
GROUND FLOOR

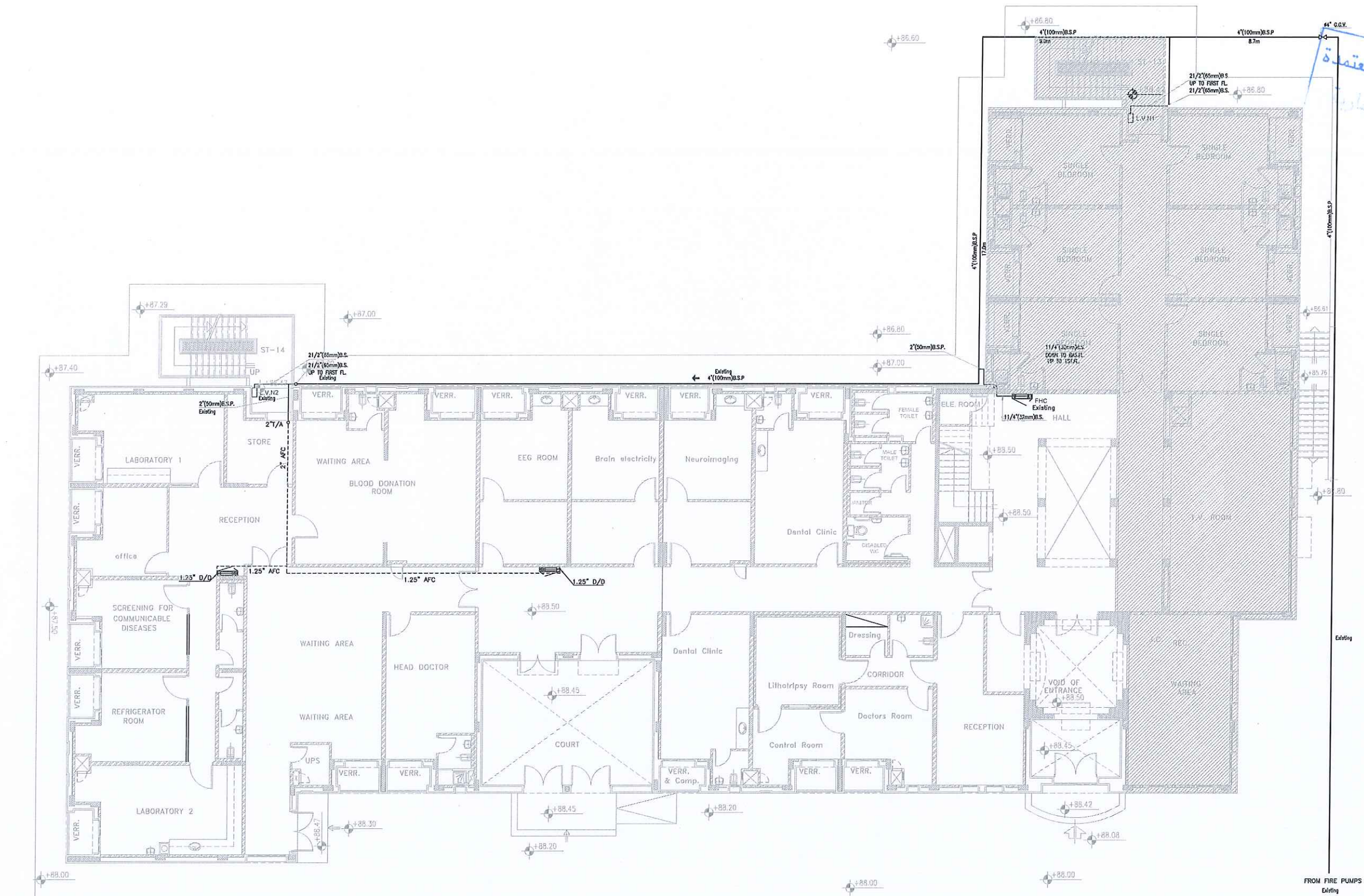
Prepared By :

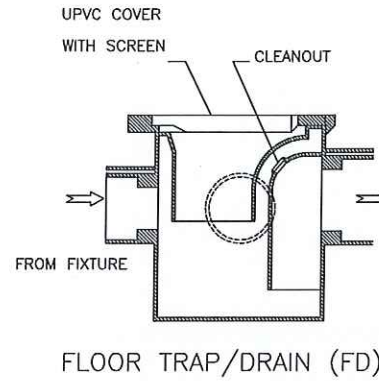
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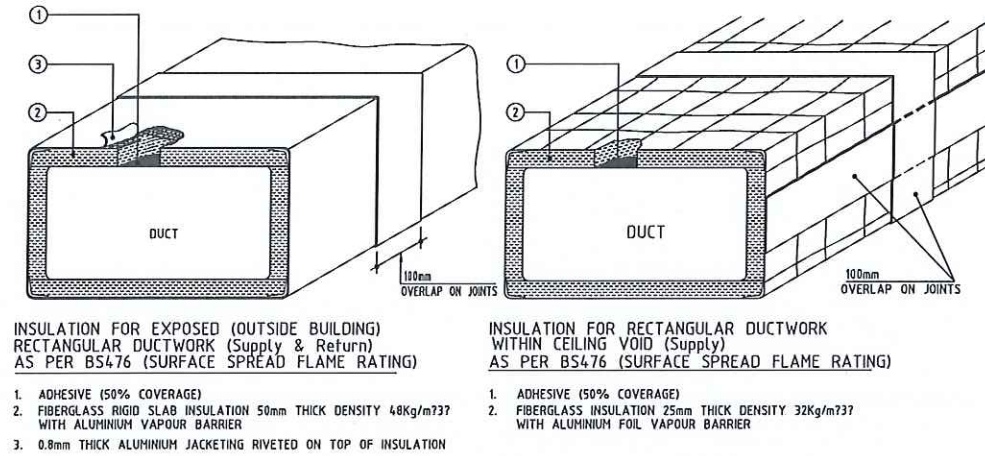
SCALE: 1/100 SHEET SIZE: A1

FILE NO.	SHEET NO.	CAD FILE	
		SER_DC_XREF_342	
DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-3	B3-M-501	A

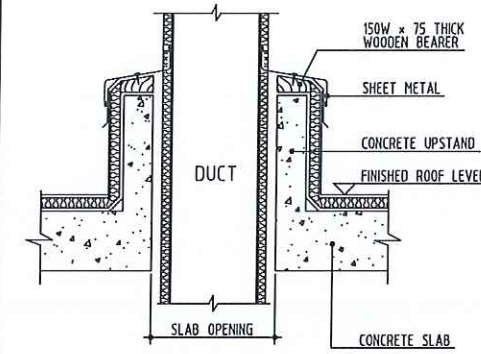




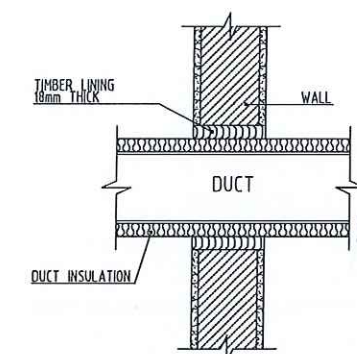
FLOOR TRAP/DRAIN (FD)



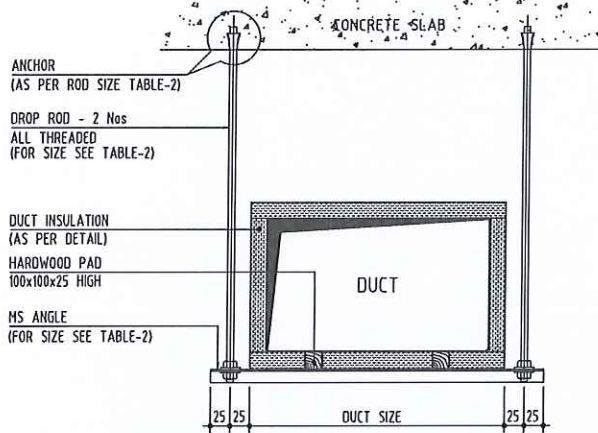
DUCT INSULATION



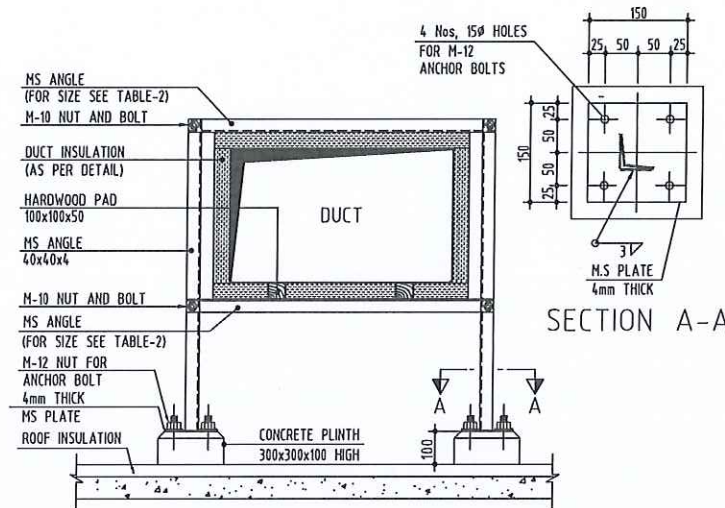
DUCT WORK ROOF PENETRATION



DUCT THROUGH WALL



HORIZONTAL DUCT SUPPORT
RECTANGULAR DUCT (INDOOR)

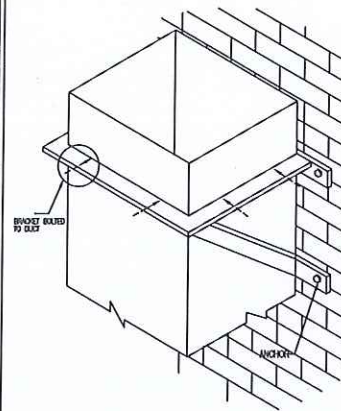


HORIZONTAL DUCT SUPPORT
RECTANGULAR DUCT (OUTDOOR)

TABLE - 1 CONSTRUCTIONAL REQUIREMENTS					
DUCT SIZE (LONGER SIDE) (mm)	NOMINAL SHEET THICKNESS (mm)	SUITABLE CROSS JOINTS	MAXIMUM SPACING BETWEEN JOINTS AND STIFFENERS (mm)	MINIMUM ANGLE SECTION FOR CROSS JOINTS AND INTERMEDIATE STIFFENERS	
UP TO 400	0.7	C1,C2,S1,S2,F1	1500	25x25x3	
400 TO 600	0.7	C1,C2,S1,S2,F1	1500	25x25x3	
600 TO 800	0.8	C2,S2,F1	1200	40x40x4	
800 TO 1000	0.8	C2,S2,F1	1200	40x40x4	
1000 TO 1500	1.0	S2,F1	800	40x40x6	
1500 TO 2250	1.2	F1	800	40x40x6	

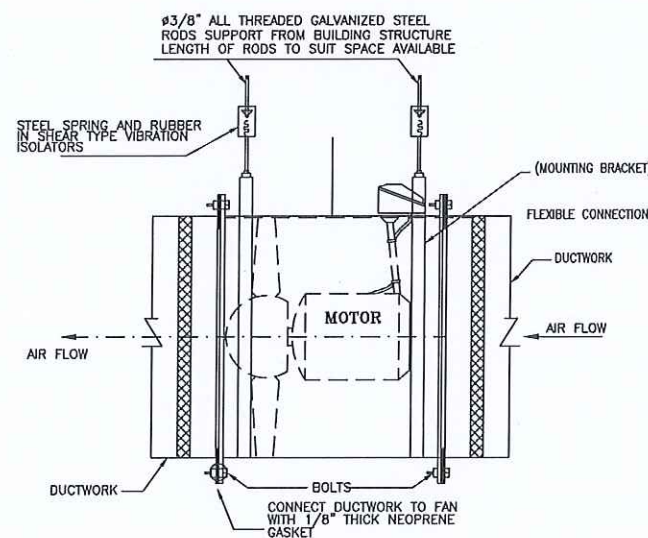
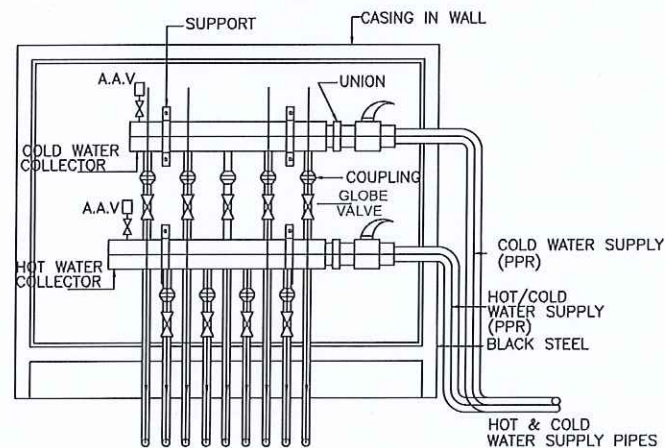
TABLE - 2 SUPPORTS FOR HORIZONTAL DUCTS			
DUCT SIZE (LONGER SIDE) (mm)	DROP ROD DIAMETER (mm)	BEARING MEMBER M.S. ANGLE	MAXIMUM SPACING (mm)
UP TO 400	8	25x25x3	3000
400 TO 600	8	25x25x3	3000
600 TO 1000	10	40x40x4	2500
1000 TO 1600	10	50x50x4	2500
1600 TO 2000	12	50x50x6	2000

DUCTING SPECIFICATION
RECTANGULAR DUCT

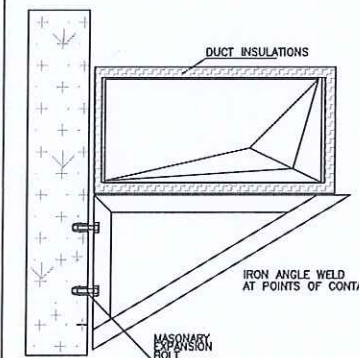


TYPE - 'A'
DUCT SUPPORTS DETAILS (IN SHAFT)

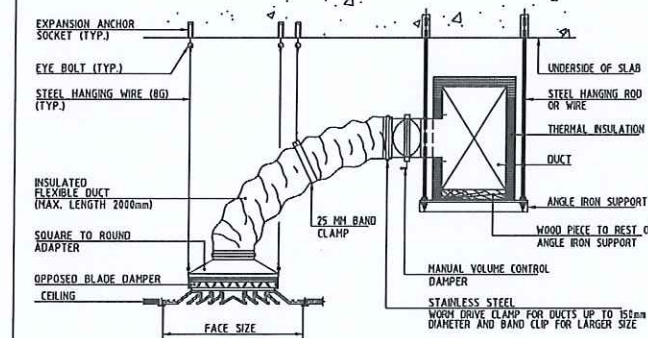
WATER DISTRIBUTION BOX (WDB) TYPICAL DETAIL



AXIAL FAN DETAIL N.T.S



DUCT SUPPORTS DETAILS



INSTALLATION DETAIL OF SQUARE SUPPLY AIR DIFFUSER
WITH FLEXIBLE CONNECTION (TOP ENTRY)

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS



PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
BLOOD BANK AND VARIOUS
CLINICS RENOVATION

DRAWING NAME :
DETAILS

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SCALE: NTS SHEET SIZE: A1

PLOT NO. BASHY NO. CAD FILE
SER_DC_XREF_342
ISSUE DATE PROJECT NO. DRAWING NO. REV.
MAR.2024 342-3 B3-M-901 A

DEPARTMENT OF ENDOCRINOLOGY AND DIABETES

MECHANICAL DRAWINGS

تم التصميم حسب الكودات المعتمدة
لجنة التصميم والتقنية الصحية



ركن الهندسة
مهندسون مستشارون



GENERAL ABBREVIATIONS		
ABBR.	SYMBOL	DESCRIPTION
mm		Millimeter
cm		Centimeter
At		At
&		And
F/A		From Above
F/B		From Below
T/A		To Above
T/B		To Below
UG		Under Ground
UT		Under Tile
US		Under Slab
H/L		High Level
L/L		Low Level
CL		Cover Level
IL		Invert Level
RL		Road Level
IE		Invert Elevation
HD		Hub Drain
HP		High Point
Ø		Diameter
KG/Cm2		Kilogram Per Square Centimeter
m2		Square meter
m3		Cubic Meter
CU		Copper
CONT		Continuation
CONN		Connection
CCW		City Cold Water
SWL		side walk level
RPM		Revolution Per Minute
SPR		Sprinkler
DN		Down
AFC		Above False Ceiling
CLL		Ceiling Level
NTS		Not To Scale
TYP		Typical
VAR		Variable
GSP		Galvanized steel pipe
BSP		Black steel pipe
SS		Stainless Steel
CPV		Chrome plated valve
UPVC		Unplastized polyvinyl chloride
CPVC		Chlorinated polyvinyl chloride
XLPE		Cross linked polyethylene pipe
ALD		Aluminum Duct
HWC		Hot Water Cylinder
FAL		Fresh Air Louver
CGS		Combination Grate And Sump.
WC		Water Closet
TP		Test Point
CP		Control Panel
KPA		Kilo Pascal
WHA		Water Hammer Arrestor
KW		Kilo Watt
L/S		Liter Per Second
CFM		Cubic Feet Minute
GPM		Gallon Per Minute
BTU/HR		British Thermal Unit/Hour
NTS		Not To Scale
►		Direction Of Flow
DN	—○	Pipe To / From Above
UP	—○	Pipe To / From Below

GENERAL VALVE SYMBOLS		
ABBR.	SYMBOL	DESCRIPTION
GV	⌘	Gate Valve
ST	⌘	Strainer
DRV	⌘	Double Regulating Valve
DRVF	⌘	Double Regulating Valve with Fixed Orifice plate
GLV	⌘	Globe valve
TH	⌘	Thermostat
BFP	⌘	Back Flow Preventer
NRV	⌘	Non Return Valve
OS&Y	⌘	Outside Screw And Yoke Valve
BFV	⌘	Butterfly Valve
BAV	⌘	Ball valve
NC	⌘	Normally Closed Valve
BV	⌘	Balancing Valve
3WMV	⌘	3 Way Motorized Valve
MV	⌘	2 Way motorized Valve
SV	⌘	Solenoid Valve
PR	⌘	Pressure Regulating Valve
PRFV	⌘	Pressure / Temperature Relief Valve
PRV	⌘	Pressure Reducing Valve
ERV	⌘	Expansion Relief Valve
PG	⌘	Pressure Gauge with Cock
T	⌘	Thermometer
FS	⌘	Flow Switch
WM	⌘	Water Meter
AAV	⌘	Automatic Air Vent with Cock
FLS	⌘	Float Switch
FLV	⌘	Float Valve
FV	⌘	Outside Screw & Yoke Valve
ACV	⌘	Alarm Check Valve
UN	⌘	Union
VB	⌘	Valve Box
VC	⌘	Valve Chamber
FLA	⌘	Flange
TV	⌘	Test & Drain Valve
GDB	⌘	Auto Drain Valve
FLEX	⌘	Flexible Connection
LSV	⌘	Lockshield Valve

SANITARY FIXTURES CONNECTION			
ABBR.	SYMBOL	NAME	SIZE
KS	⌘	KITCHEN SINK	2" (50 mm)
JS/L	⌘	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	⌘	HAND WASH BASIN	2" (50 mm)
B	⌘	BIDET	2" (50 mm)
WC	⌘	WATER CLOSET	4" (110 mm)
SH	⌘	SHOWER TRAY	2" (50 mm)
BT	⌘	BATH TUB	2" (50 mm)
UR	⌘	URINAL	2" (50 mm)
WM	⌘	WASHING MACHINE	2" (50 mm)
D/W	⌘	DISH WASHER	2" (50 mm)
WCL	⌘	WATER COOLER	2" (50 mm)
FD	⌘	FLOOR DRAIN	3" (75 mm)
FD	⌘	FLOOR DRAIN	4" (110 mm)

UNLESS OTHERWISE NOTED THE CONNECTIONS FOR THE FIXTURE UNITS WILL BE AS FOLLOWS .

ABBR.	SYMBOL	NAME	SIZE
KS	⌘	KITCHEN SINK	2" (50 mm)
JS/L	⌘	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	⌘	HAND WASH BASIN	2" (50 mm)
B	⌘	BIDET	2" (50 mm)
WC	⌘	WATER CLOSET	4" (110 mm)
SH	⌘	SHOWER TRAY	2" (50 mm)
BT	⌘	BATH TUB	2" (50 mm)
UR	⌘	URINAL	2" (50 mm)
WM	⌘	WASHING MACHINE	2" (50 mm)
D/W	⌘	DISH WASHER	2" (50 mm)
WCL	⌘	WATER COOLER	2" (50 mm)
FD	⌘	FLOOR DRAIN	3" (75 mm)
FD	⌘	FLOOR DRAIN	4" (110 mm)

PLUMBING SYMBOLS		
ABBR.	SYMBOL	DESCRIPTION
WP	○	Waste Pipe
SP	○	Soil Pipe
VP	○	Vent Pipe
WPUT	—	Waste Pipe Under Tile & Under Ground
WPUS	—	Waste Pipe Under Slab & Above False Ceiling
SPUT	—	Soil Pipe Under Tile & Under Ground
SPUS	—	Soil Pipe Under Slab & Above False Ceiling
VPUT	—	Vent Pipe Under Tile & Under Ground
VPUS	—	Vent Pipe Under Slab & Above False Ceiling
DP	—	Drain Pipe (Soile & Waste)
RWP	—	Rain Water Pipe
CWS	—	Cold Water Supply
HWS	—	Hot Water Supply
HWIR	—	Hot Water Return
FWP	—	Flash Water Pipe
PW	—	Purified Water
SW	—	Soft Water
HSS	—	Hot Soft Water Supply
HSR	—	Hot Soft Water Return
SCON	—	Steam Condensate Pipe
SIP	—	Swimming Pool Inlet Pipe
SDP	—	Swimming Pool Drain Pipe
SVP	—	Swimming Pool Vacuum Pipe
LPG	—	LPG Pipe
GAS	—	GAS Pipe
NG	—	NG Pipe
CA	—	Compressed Air Pipe
ST	—	Steam Pipe
MED	—	Medical Air 4 Bar Pipe
O2	—	Oxygen (O2) Pipe
N2O	—	Nitrous-Oxide (N2O) Pipe
SCAV	—	Scavenging Pipe
SURG 7	—	Surgical 7 Bar Pipe
VAC	—	Vacuum Pipe
FD	⌘	Floor Drain
FCO	⌘	Floor Clean out
CO	⌘	Suspended / Wall Clean Out
MH	⌘	Manhole
AR	⌘	Area Drain
RVC	⌘	Roof Vent Cap
RD	⌘	Roof Drain / Balcony Drain
RS	⌘	Rain Water Stack
GT	⌘	Gully Trap
GP	⌘	Gravel Pit
GI	⌘	Grease Interceptor
RWG	⌘	Rain Water Grille
NUP	⌘	Neutralization Pit
OL	⌘	Oil Interceptor
LI	⌘	lint Interceptor
HS	⌘	Hand Spray Tap
WMS	⌘	Water Meter Set
FI	⌘	Fixture out let
AVP	⌘	Anti Vortex Plate
FWS	⌘	Flash Water Switch
PW	⌘	Purified Water Outlet
SVI	⌘	Swimming Pool Inlet
SVO	⌘	Swimming Pool Vacuum Outlet
SGO	⌘	Swimming Gutter Overflow
SDG	⌘	Swimming Pool Drain Grille
WDB	⌘	Water Distribution Box
WDB	⌘	Water Distribution Box
WDB	⌘	Water Distribution Box
ASE	⌘	Air Separator
EWHT-02	⌘	Electric Water Heater (50 L)
EWHT	⌘	Electric Water Heater (Vertical)
HWC	⌘	Hot Water Cylinder
SOF	⌘	Water Softener
SF	⌘	Water Sand Filter
ROU	⌘	RO Unit
SDF	⌘	Sediments Filter
SF	⌘	Ultraviolet Filter
LP	⌘	Lifting Pump
WBP	⌘	Water Booster Pump
CP	⌘	Circulation Pump
HWP	⌘	Hot Water Pump
GWLP	⌘	Gray Water Lifting Pump
FWL	⌘	Fish Water Lifting Pump
SHP	⌘	Shunt Pump
PRP	⌘	Pressurization Pump
DOSP	⌘	Dosing Pump
H	⌘	Symbol Pump Horizontal
V	⌘	Symbol pump vertical
SUBP	⌘	Submersible Pump
SUMP	⌘	Sump Pit Pump

PLUMBING SYMBOLS		
CO	CO	Carbon Monoxide Sensor
LM	⌘	Meter (Water, LPG, Energy)
REG	⌘	LPG Regulator
LO	⌘	LPG Outlet
D	⌘	GAS Leak Detector
SGC	⌘	Single Gas-Compressed Air Point
DGC	⌘	Double Gas-Compressed Air Point
COMP	⌘	Compressor
GDB	⌘	Gas Distribution Box
GDB	⌘	Ball Valve & Regulator
WT	⌘	Polyethylene Water Tank
WT	⌘	Galvanized Steel Water Tank
	⌘	Water Drain Dome Type
IWH	⌘	Instant Water Electrical heater
SUBP	⌘	Submersible Pump

FIRE FIGHTING SYMBOLS		
ABBR.	SYMBOL	DESCRIPTION
FF	—	Main Fire Pipe
SFP	—	Sprinkler Fire Pipe
DPP	—	Drain Fire Pipe
PV	⌘	Pressure Vessel
SC	⌘	2-way Fire Department Connection
SC	⌘	4-way Fire Department Connection
LV	⌘	Landing Valve
ZCV	⌘	Zone Control Valve
SG	⌘	Sight Glass
FH	⌘	Fire Hydrant
	⌘	Upright Sprinkler
	⌘	Pendent Sprinkler
	⌘	Pendent Sprinkler Concealed Type
	⌘	Side wall Sprinkler
	⌘	ESFR Pendent Sprinkler
	⌘	Ø200 FIRE FIGHTING PIPE
	⌘	Ø150 FIRE FIGHTING PIPE
	⌘	Ø100 FIRE FIGHTING PIPE
	⌘	Ø80 FIRE FIGHTING PIPE
	⌘	Ø65 FIRE FIGHTING PIPE
	⌘	Ø50 FIRE FIGHTING PIPE
	⌘	Ø40 FIRE FIGHTING PIPE
	⌘	Ø32 FIRE FIGHTING PIPE
	⌘	Ø25 FIRE FIGHTING PIPE
	⌘	U hook Support
	⌘	Hanger Support
	⌘	Side Wall Support
FE-1	⌘	Portable Fire Extinguisher (Dry Powder)
FE-2	⌘	Portable Fire Extinguisher (CO2)
FE-3	⌘	Portable Fire Extinguisher (Dry Powder Automatic)
FF	⌘	Fuel Filter
DPV	⌘	Dry Pipe Valve
FFP	⌘	Fire Fighting Pump
FJP	⌘	Fire Jockey pump
FHC	⌘	Fire Hose Cabinet
FHC	⌘	Fire Hose Cabinet & Landing Valve
FHR	⌘	Fire Hose Rack Cabinet

HVAC SYMBOLS		
ABBR.	SYMBOL	DESCRIPTION
SAD	—	Supply Air Duct
RAD	—	Return Air Duct
FAD	—	Fresh Air Duct
EAD	—	Exhaust Air Duct
CHWS	—	Chilled Water Supply Pipe
CHWR	—	Chilled Water Return Pipe
HTGS	—	Heating Supply Pipe
HTGR	—	Heating Return Pipe
CON	—	Condensate Drain Pipe
REF	—	Refrigerant Pipe
FU	—	Fuel Pipe
SD	⌘	Supply Ceiling Diffuser
RD	⌘	Return Ceiling Diffuser
ED	⌘	Exhaust Ceiling Diffuser
RG	⌘	Return Grille
EG	⌘	Exhaust Grille
SR	⌘	Supply Air Register (Side Wall)
RR	⌘	Return Air Register (Side Wall)
ER	⌘	Exhaust Air Register (Side Wall)
HF	⌘	Terminal HEPA Filter
EGG	⌘	EGG Crate Grill
DG	⌘	Door Grill
UC	⌘	Under cut
TFG	⌘	Transfer Grill
LV	⌘	Louver With Gravity Shutter
DV	⌘	Disc Valve
SLD	⌘	Supply Linear Diffuser
RLD	⌘	Return Linear Diffuser
DLD	⌘	Dummy Linear Diffuser
ACR	⌘	Air Curtain
VAV	⌘	Variable Air Volume
AD	⌘	Access Door
	⌘	Flexible Connection Duct
	⌘	Flexible Connection Duct
VCD	⌘	Volume Control Damper
FD	⌘	Fire Damper
MVD	⌘	Motorized Volume Damper
SFD	⌘	Smoke Fire Damper
T	⌘	Thermostat (With On-Off Switch)
CO2	⌘	Carbon Dioxide Sensor
EXF	⌘	Exhaust Fan-Window Type
EXF	⌘	Exhaust Fan-Duct Line
FAF	⌘	Fresh Fan-Duct Line
SMF	⌘	Smoke Make Fan
SRF	⌘	Smoke Relief Fan-Duct Mounted
SPI	⌘	Split Unit - Indoor
SPO	⌘	Split Unit - Outdoor
WAC	⌘	Window Type Air Conditioner
CSUI	⌘	Cassett split Unit - Indoor
SEF	⌘	Upblast Smoke Extract Fan
CSUO	⌘	Cassette Split Unit - Outdoor
HCDLD	⌘	High Capacity Dram Louver Diffuser
FCOU	⌘	Fan Convecter Unit
FCU	⌘	Fan Coil Unit
FCU	⌘	Fan Coil Unit
DSU	⌘	Ducted Split Unit Indoor
AHU	⌘	Air Handling Unit
PAC	⌘	Package Unit
CH	⌘	Chillers
VRFO	⌘	Variable Refrigerant Flow-Outdoor Unit
AHU	⌘	Air Handling Unit with Run around coil
HE	⌘	Plate Heat Exchanger
BDD	⌘	Back Draft Damper
EH	⌘	Electrical Heater
SAT	⌘	Sound Attenuate
BM	⌘	Bell Mouth Opening
BF	⌘	Bag Filter
FF	⌘	Flat Filter
SF	⌘	Secondary Filter
PF	⌘	Pre Filter
ODF	⌘	Odor Filter
MD	⌘	Motorized Damper
CC	⌘	Cooling Coil
R	⌘	Radiator
HDB	⌘	Hot Water Distribution Box LxWxD = 60x60x10
HDB	⌘	Hot Water Distribution Box LxWxD = 80x60x10
HDB	⌘	Hot Water Distribution Box LxWxD = 100x60x10
B	⌘	Boiler
HTGP	⌘	Heating Pump
CHWP	⌘	Chilled Water Pump
CHWSP	⌘	Chilled Water Secondary Pump
CHWPP	⌘	Chilled Water Primary Pump
CSPI	⌘	Ceiling Mounted Split Unit - Indoor
	⌘	Y - Connection

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مهندس شادي ب. شادي

REV. NO.	DATE	DESCRIPTION



PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY AND DIABETES

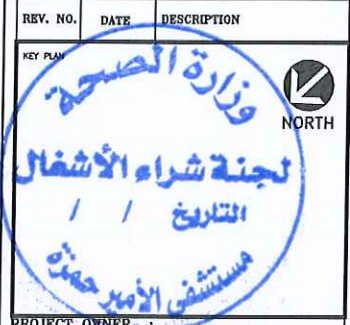
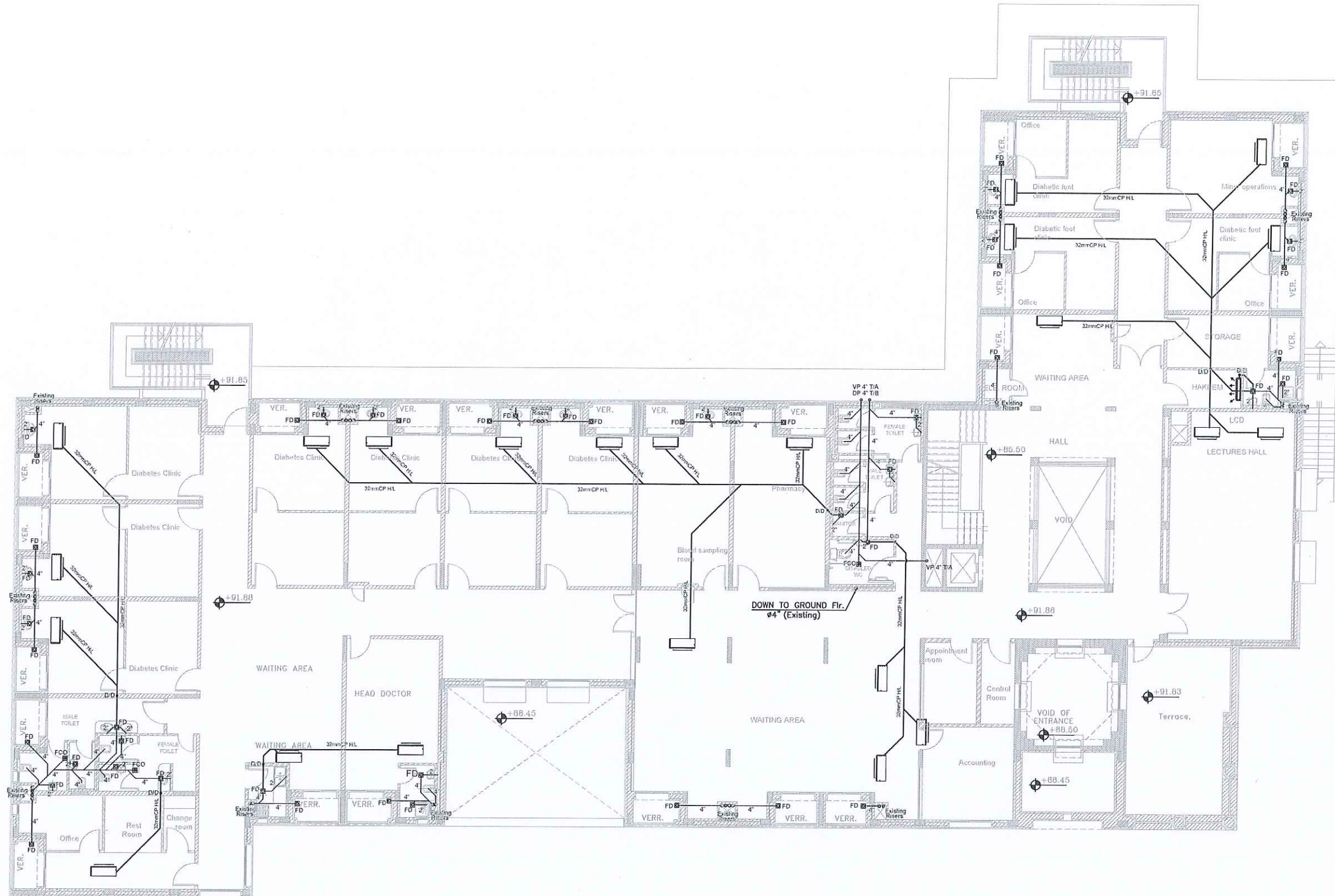
DRAWING NAME :
LEGEND & SYMBOLS

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DRAWN BY	SHADI B.	8706
SCALE: NTS		SHEET SIZE: A1
FILE NO.	DRAWING NO.	CAD FILE
		SER._DC_X.REF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	B4-M-000
		A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مستشفى الأمير حمزة



PROJECT OWNER :
PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :
DRAINAGE LAYOUT
FIRST FLOOR

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SCALE: 1/100 SHEET SIZE: A1

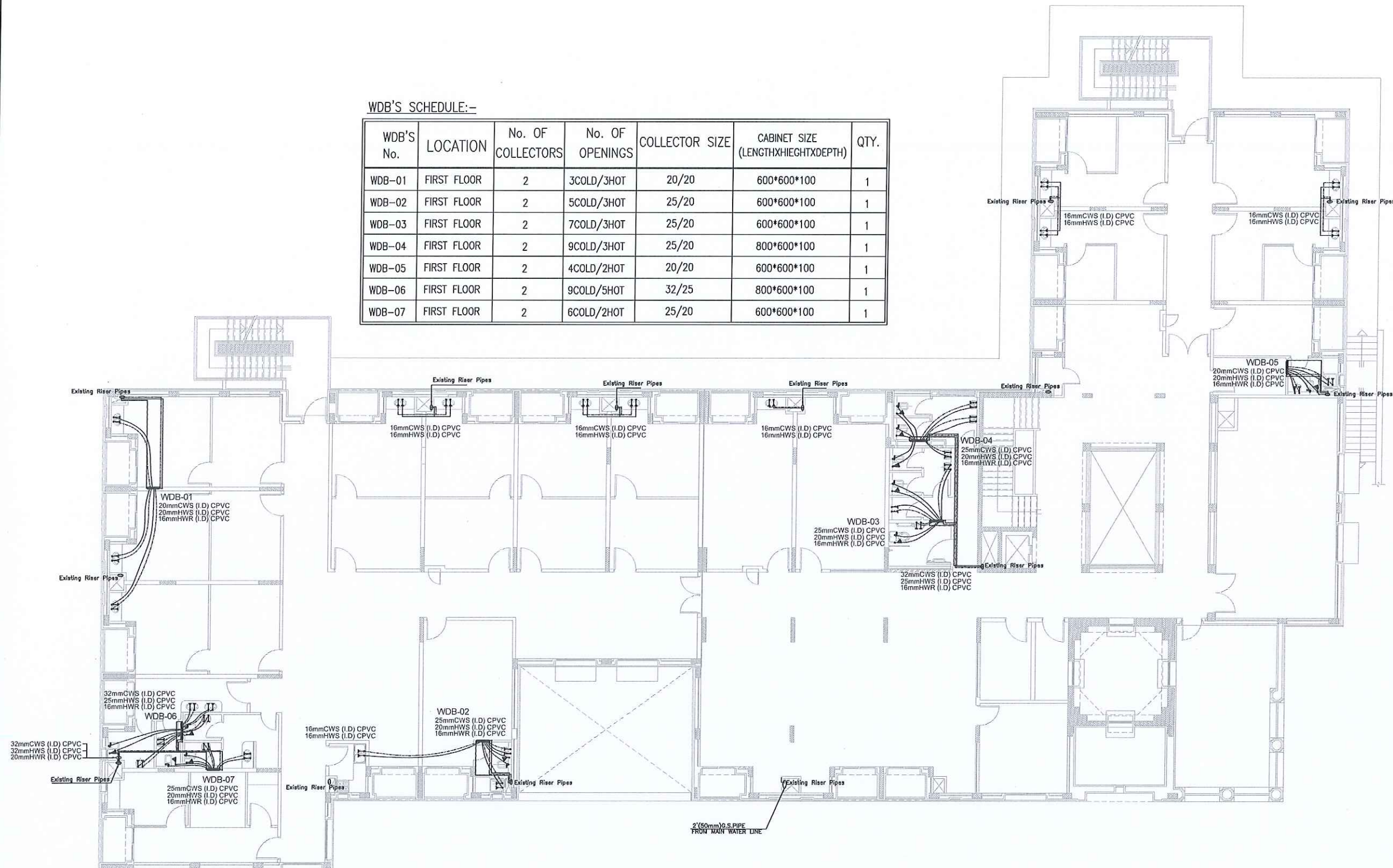
PLAT NO.	BADN NO.	CAD FILE
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	B4-M-101

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التوجيهات الفنية المعمول بها

WDB'S SCHEDULE:-

WDB'S No.	LOCATION	No. OF COLLECTORS	No. OF OPENINGS	COLLECTOR SIZE	CABINET SIZE (LENGTHXHEIGHTXDEPTH)	QTY.
WDB-01	FIRST FLOOR	2	3COLD/3HOT	20/20	600*600*100	1
WDB-02	FIRST FLOOR	2	5COLD/3HOT	25/20	600*600*100	1
WDB-03	FIRST FLOOR	2	7COLD/3HOT	25/20	600*600*100	1
WDB-04	FIRST FLOOR	2	9COLD/3HOT	25/20	800*600*100	1
WDB-05	FIRST FLOOR	2	4COLD/2HOT	20/20	600*600*100	1
WDB-06	FIRST FLOOR	2	9COLD/5HOT	32/25	800*600*100	1
WDB-07	FIRST FLOOR	2	6COLD/2HOT	25/20	600*600*100	1



REV. NO. DATE DESCRIPTION



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

WATER LAYOUT
FIRST FLOOR

Prepared By :

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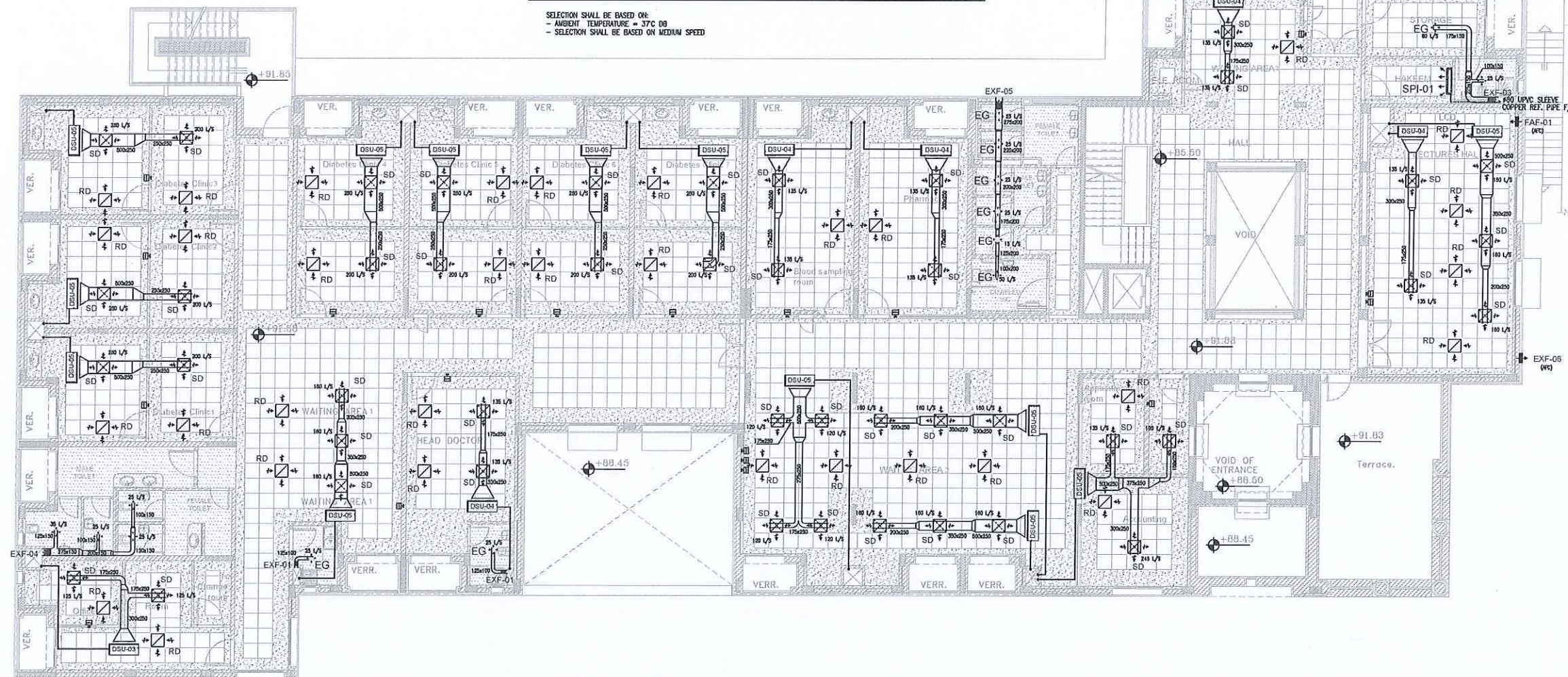
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		SER._DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	B4-M-201	A

MATERIALS

	GYPSUM BOARD
	GYPSUM TILES AS SPECIFIED
	GYPSUM BOARD

AIR CONDITIONING INDOOR UNIT / FIRST FLOOR									
INDOOR A/C No.	SERVED AREA	TYPE	COOLING LOAD (kW)	HEATING LOAD (kW)	AIR FLOW (L/S)	QTY	ELECTRICAL DATA	NOTES	
DSU-04	HEAD DOCTOR	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-05	DIABETES CLINIC 1 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	DIABETES CLINIC 2 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	DIABETES CLINIC 3 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	DIABETES CLINIC 4 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	DIABETES CLINIC 5 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	DIABETES CLINIC 6 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	DIABETES CLINIC 7 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-03	REST ROOM & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	6.0	7.0	250	1	2.0 1,220,50	----	
DSU-05	WAITING AREA 1	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-04	BLOOD SAMPLING	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-04	PHARMACY	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-05	ACCOUNTING, APPOINTMENT & CONTROL ROOM	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-05	WAITING AREA 2	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	3	3.4 1,220,50	----	
DSU-04	WAITING AREA 3	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-04	LECTURES HALL	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-05	LECTURES HALL	DUCTED SPLIT UNIT HEAT PUMP	10.0	12.5	480	1	3.4 1,220,50	----	
DSU-04	MINOR OPERATIONS	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-04	DIABETES FOOT 1 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-04	DIABETES FOOT 2 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
DSU-04	DIABETES FOOT 3 & OFFICE	DUCTED SPLIT UNIT HEAT PUMP	7.1	8.0	270	1	2.2 1,220,50	----	
SP1-01	DIABETES FOOT 3 & OFFICE	WALL MOUNTED SPLIT UNIT	3.5	----	----	1	1.2 1,220,50	JUST COOLING	

SELECTION SHALL BE BASED ON:
- AMBIENT TEMPERATURE = 37°C DB
- SELECTION SHALL BE BASED ON MEDIUM SPEED



EXHAUST & FRESH FANS SCHEDULE / FIRST						
FAN TYPE	QUANTITY	FLOW RATE L/S	ESTIM. STATIC PRESSURE Pa	ELECTRICAL DATA		
				PWR. W	Hz	Phase
EXF-01	2	25	10	20	50	1
EXF-03	1	85	25	60	50	1
EXF-04	1	110	45	70	50	1
EXF-05	1	165	45	80	50	1
EXF-06	1	230	----	120	50	1
FAF-01	1	170	----	80	50	1

AXIAL FAN WALL MOUNTED WITH BACK DRAFT SHUTTER (EXHAUST FAN)
AXIAL FAN WALL MOUNTED WITH BACK DRAFT SHUTTER (FRESH FAN)

EXHAUST AND FRESH AIR CALCULATIONS:

*LECTURES HALL:

Area= 61 m² ----- Fresh Air=0.3 L/S/m²
Persons= 40 ----- Fresh Air=2.5 L/S/Person

* Fresh Air = (0.3 x 61) + (3.8 x 40) = 170 L/S
* Exhaust Air = 170/0.75 = 227 L/S

NOTES :

-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التوجيهات الفنية السارية

REV. NO.	DATE	DESCRIPTION
1		

PROJECT OWNER :



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

HVAC LAYOUT
FIRST FLOOR

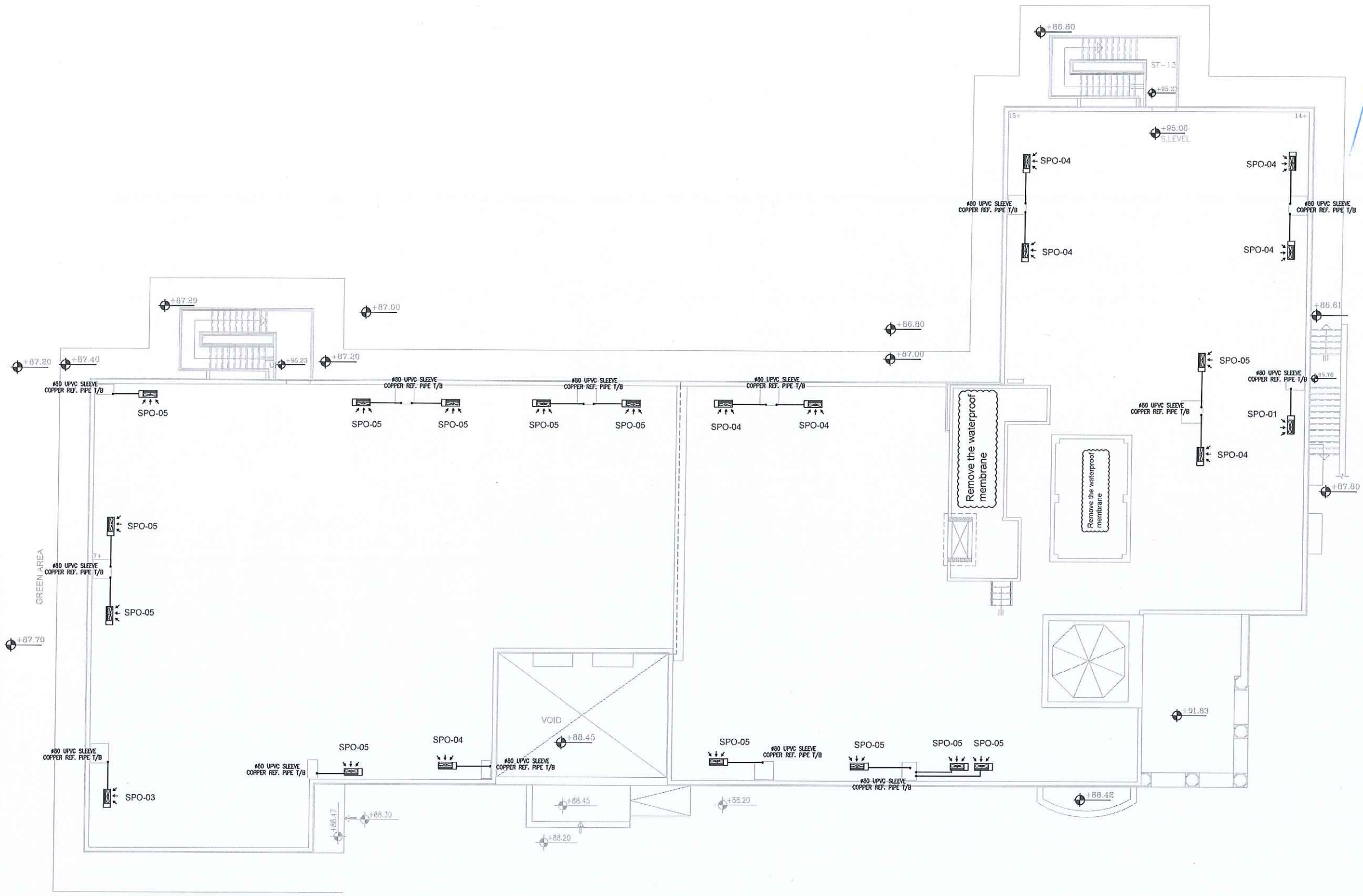
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SCALE: 1/100 SHEET SIZE: A1

FILE NO.	REVISION NO.	CAD FILE
		SER_DC_XREF_342
ISSUE DATE	PROJECT NO.	DRAWING NO.
MAR.2024	342-4	B4-M-401



TOP OF ROOF PLAN 1:100

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
مراجعة: المهندس / محمد /

REV. NO.	DATE	DESCRIPTION



PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :

DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

DRAWING NAME :

HVAC LAYOUT
TOP OF ROOF

Prepared By :

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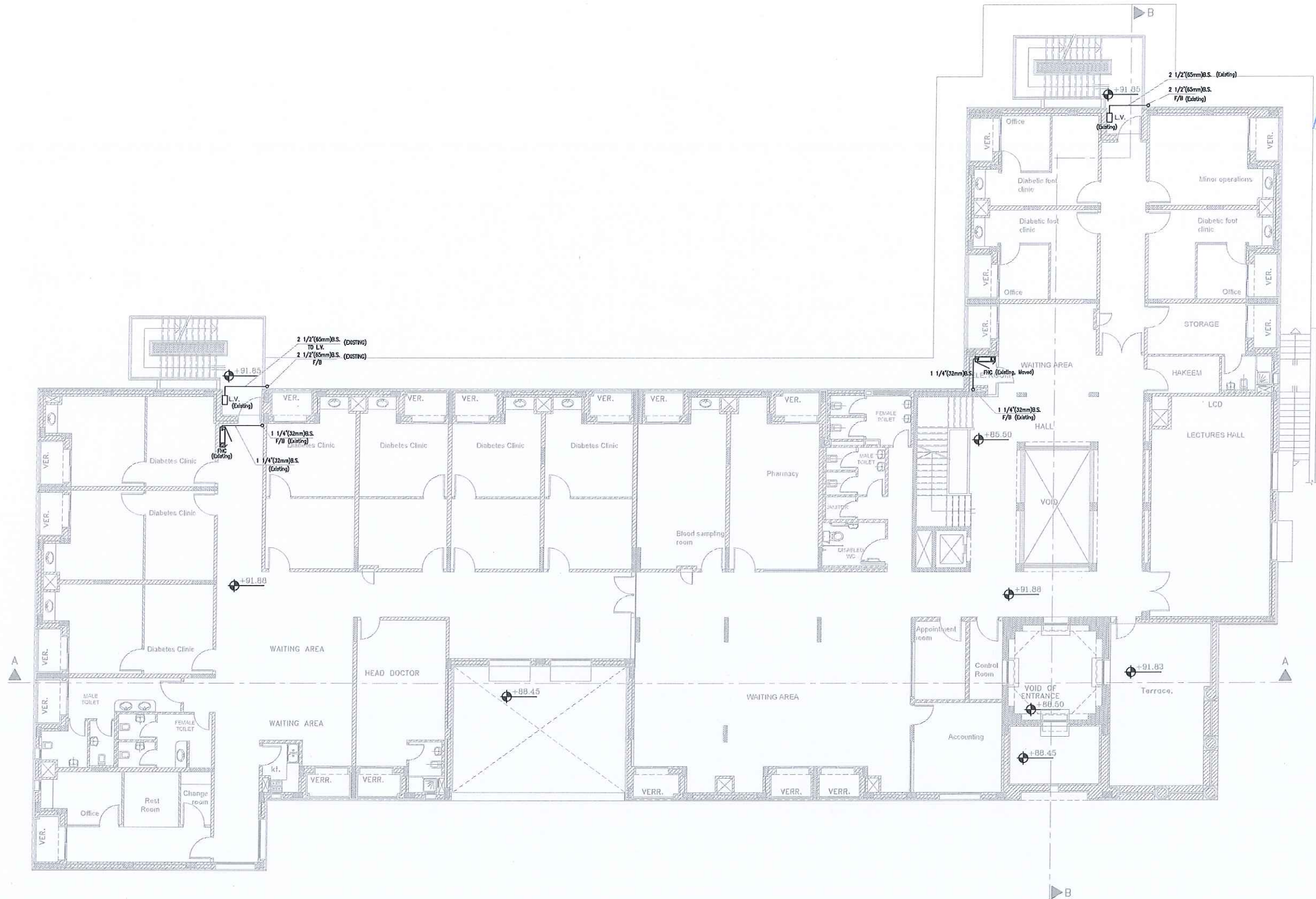
DESIGNED BY	SHADI B.	8706
CHECKED BY	KHOLOU B.	7444
DRAWN BY	SHADI B.	8706

SCALE: 1/100 SHEET SIZE: A1

PLAT NO.	BADIN NO.	CAD FILE	
		SER_DC_X.REF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	B4-M-402	A

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

تم التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



PROJECT OWNER :

PRINCE HAMZA HOSPITAL
Tender No. (2025/36)

PROJECT NAME :
DEPARTMENT OF ENDOCRINOLOGY
AND DIABETES

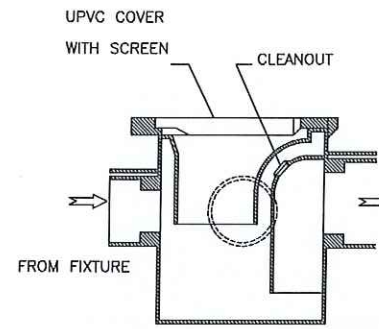
DRAWING NAME :
FIRE FIGHTING LAYOUT
FIRST FLOOR

Prepared By :
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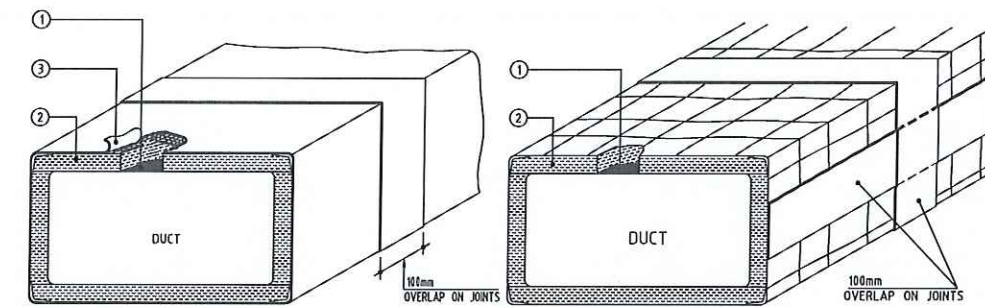
DESIGNED BY	SHADI B.	8706
CHECKED BY	KHOLOU B.	7444
DRAWN BY	SHADI B.	8706

SCALE: 1/100 SHEET SIZE: A1

FILE NO.	REVISION NO.	CAD FILE	
		SER_DC_XREF_342	
ISSUE DATE	PROJECT NO.	DRAWING NO.	REV.
MAR.2024	342-4	B4-M-501	A



FLOOR TRAP/DRAIN (FD)



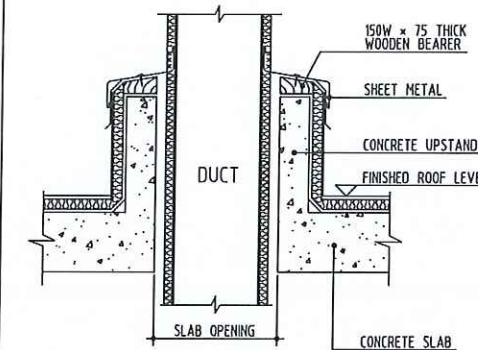
INSULATION FOR EXPOSED (OUTSIDE BUILDING) RECTANGULAR DUCTWORK (Supply & Return) AS PER BS476 (SURFACE SPREAD FLAME RATING)

1. ADHESIVE (50% COVERAGE)
2. FIBERGLASS RIGID SLAB INSULATION 50mm THICK DENSITY 48Kg/m³ WITH ALUMINIUM VAPOUR BARRIER
3. 0.8mm THICK ALUMINIUM JACKETING RIVETED ON TOP OF INSULATION

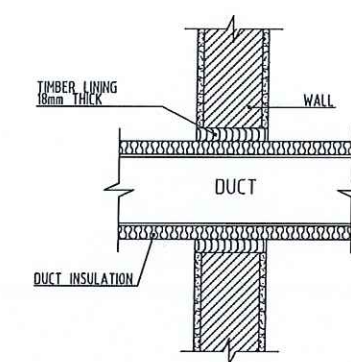
INSULATION FOR RECTANGULAR DUCTWORK WITHIN CEILING VOID (Supply) AS PER BS476 (SURFACE SPREAD FLAME RATING)

1. ADHESIVE (50% COVERAGE)
2. FIBERGLASS INSULATION 25mm THICK DENSITY 32Kg/m³ WITH ALUMINIUM FOIL VAPOUR BARRIER

DUCT INSULATION



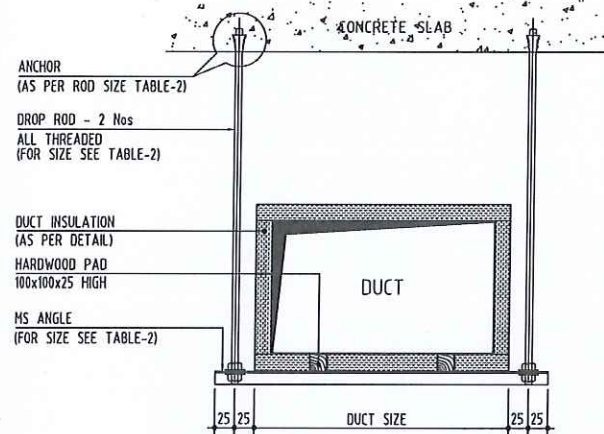
DUCT WORK ROOF PENETRATION



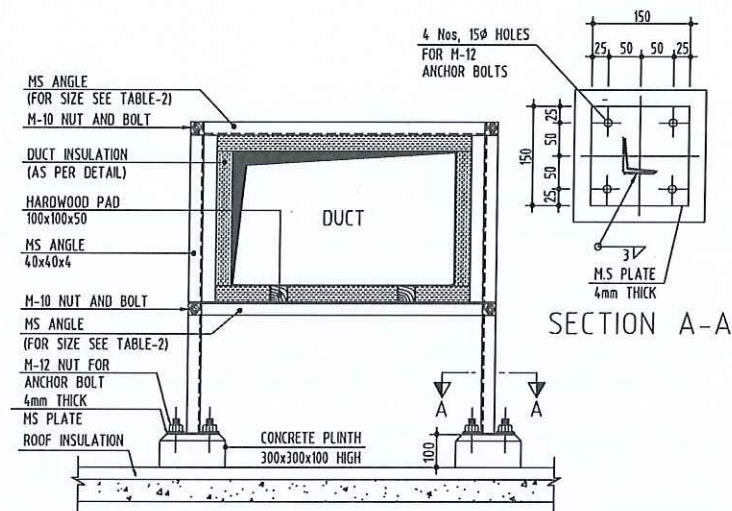
DUCT THROUGH WALL

NOTES :
-ALL DIMENSIONS ARE IN CENTIMETERS
-ALL LEVELS ARE IN METERS

التصميم حسب الكودات المعتمدة
بموجب التعليمات الفنية السارية



HORIZONTAL DUCT SUPPORT RECTANGULAR DUCT (INDOOR)

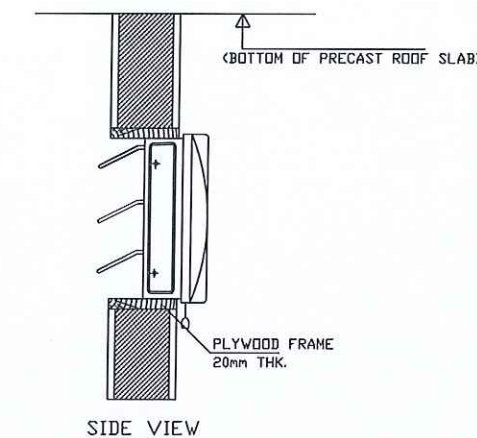


HORIZONTAL DUCT SUPPORT RECTANGULAR DUCT (OUTDOOR)

TABLE - 1 CONSTRUCTIONAL REQUIREMENTS				
DUCT SIZE (LONGER SIDE) (mm)	NOMINAL SHEET THICKNESS (mm)	SUITABLE CROSS JOINTS	MAXIMUM SPACING BETWEEN JOINTS AND STIFFENERS (mm) WITHOUT CROSS BEARING	MINIMUM ANGLE SECTION FOR CROSS JOINTS AND INTERMEDIATE STIFFENERS
UP TO 400	0.7	C1,C2,S1,S2,F1	1500	25x25x3
400 TO 600	0.7	C1,C2,S1,S2,F1	1500	25x25x3
600 TO 800	0.8	C2,S2,F1	2000	40x40x4
800 TO 1000	0.8	C2,S2,F1	1200	40x40x4
1000 TO 1500	1.0	S2,F1	800	40x40x4
1500 TO 2250	1.2	F1	800	40x40x6

TABLE - 2 SUPPORTS FOR HORIZONTAL DUCTS			
DUCT SIZE (LONGER SIDE) (mm)	DROP ROD DIAMETER (mm)	BEARING MEMBER M.S. ANGLE	MAXIMUM SPACING (mm)
UP TO 400	8	25x25x3	3000
400 TO 600	8	25x25x3	3000
600 TO 1000	10	40x40x4	2500
1000 TO 1600	10	50x50x4	2500
1600 TO 2000	12	50x50x6	2000

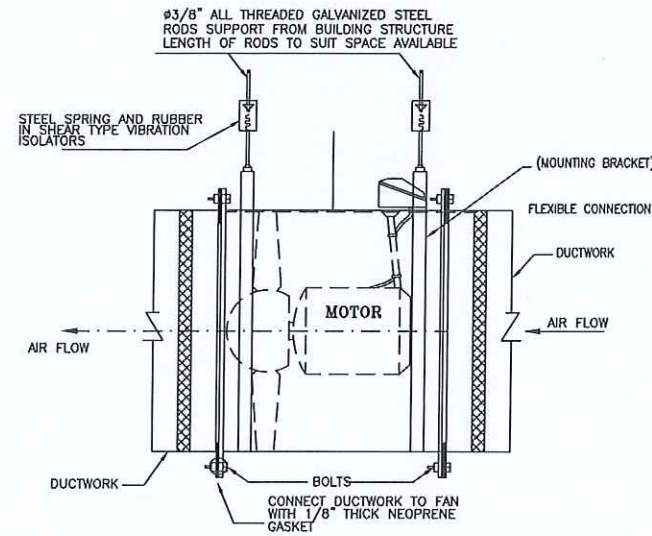
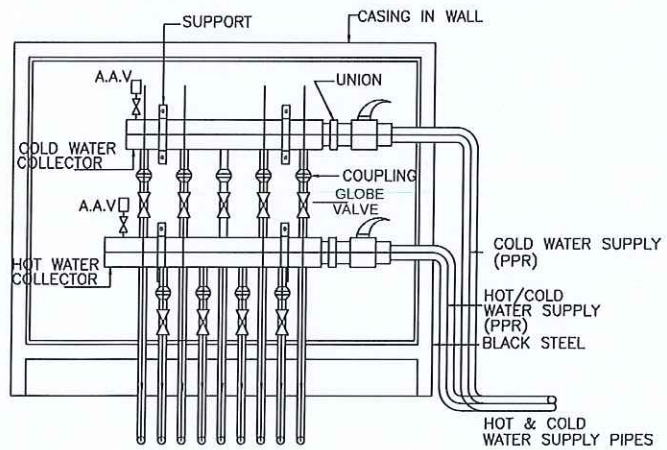
DUCTING SPECIFICATION RECTANGULAR DUCT



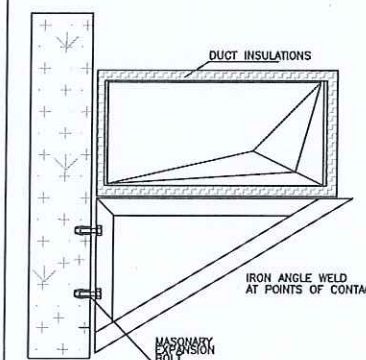
EXHAUST FAN (WALL MOUNTED)
SCALE N.T.S.



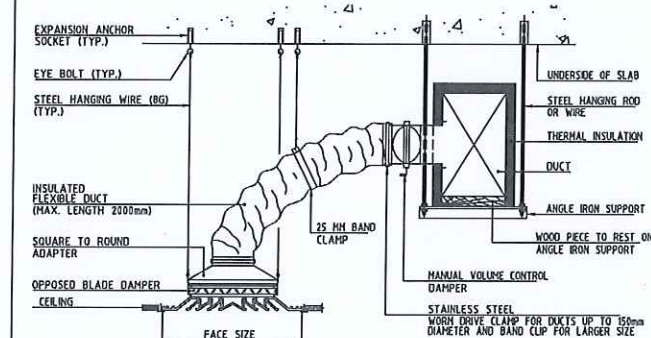
WATER DISTRIBUTION BOX (WDB) TYPICAL DETAIL



AXIAL FAN DETAIL N.T.S



DUCT SUPPORTS DETAILS



INSTALLATION DETAIL OF SQUARE SUPPLY AIR DIFFUSER WITH FLEXIBLE CONNECTION (TOP ENTRY)

DETAILS

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SCALE: NTS SHEET SIZE: A1

PLANT NO.	BLANK NO.	CAD FILE
		SER_DC_XREF_342
ISSUE DATE	PROJECT NO.	REVISION NO.
MAR.2024	342-4	B4-M-901
		REV.
		A