

Alphin T S

Thrissur, Kerala, India

MEP Coordinator

As an MEP Coordinator with strong expertise in **Revit, Navisworks, AutoCAD, and BIM 360**, I specialize in improving project efficiency through accurate **clash detection** and effective **BIM execution planning**. My role focuses on integrating mechanical, electrical, and plumbing systems within the overall building design, ensuring coordination across all disciplines in line with AEC industry standards.



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No.	Description	Date

UAE Based Project

Sheet List

Project number	01
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002

Scale

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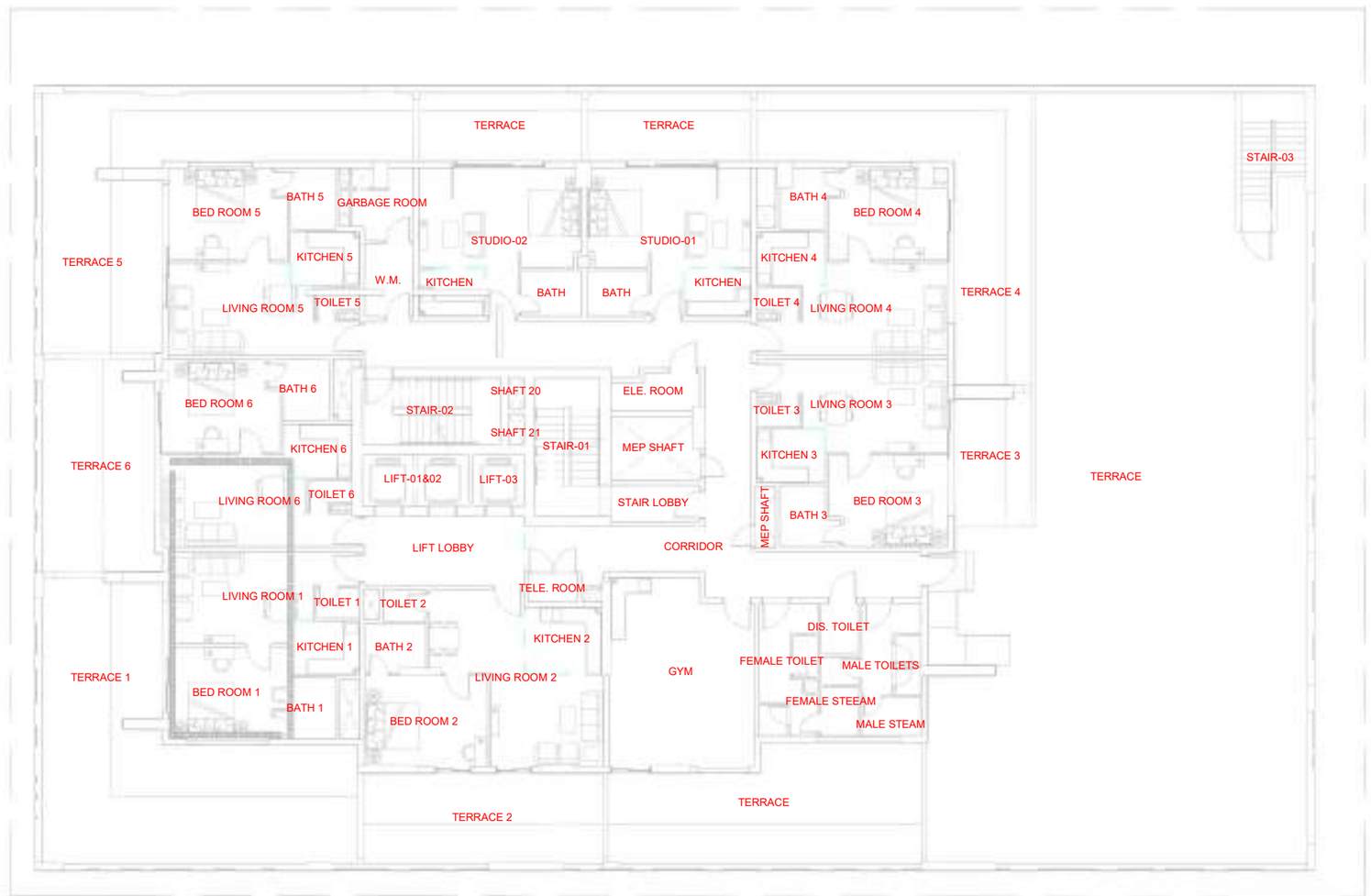
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3D View

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FLOOR PLAN (LEVEL 101-113)

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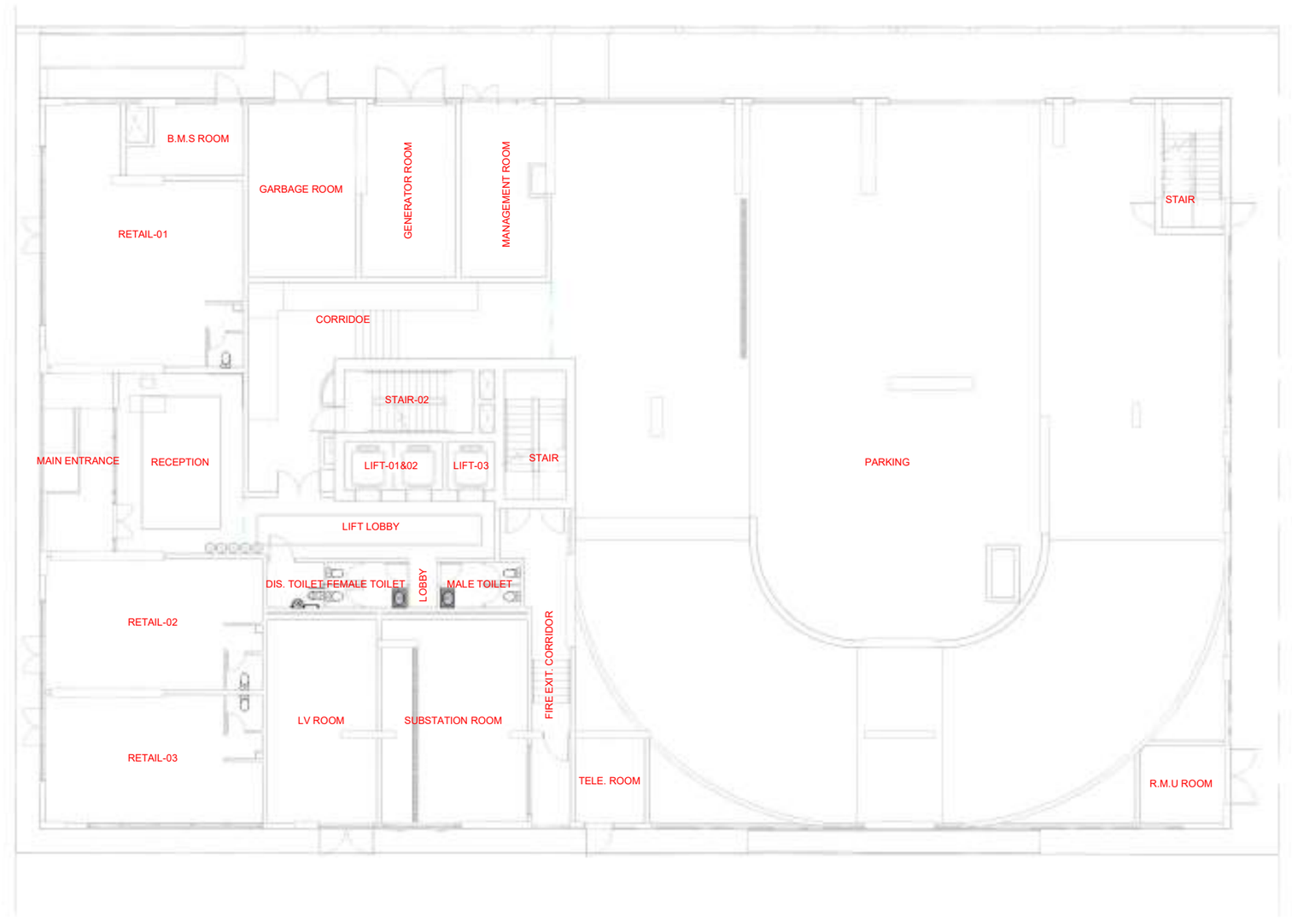
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Floor plan 101

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005

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Floor Plan Ground (Level 100)

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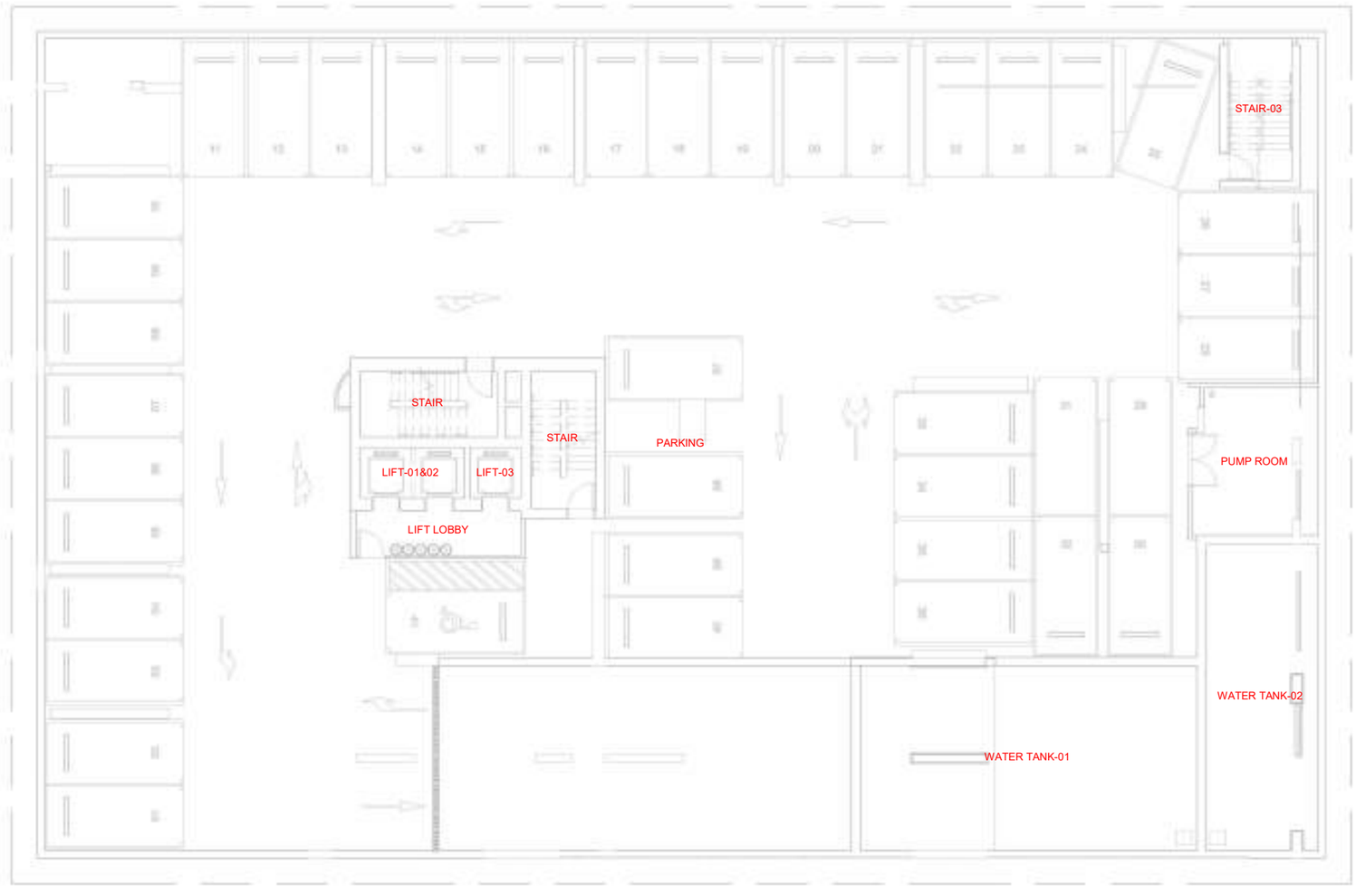
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Floor Plan Ground

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Floor Plan Basement (Level 98-99)

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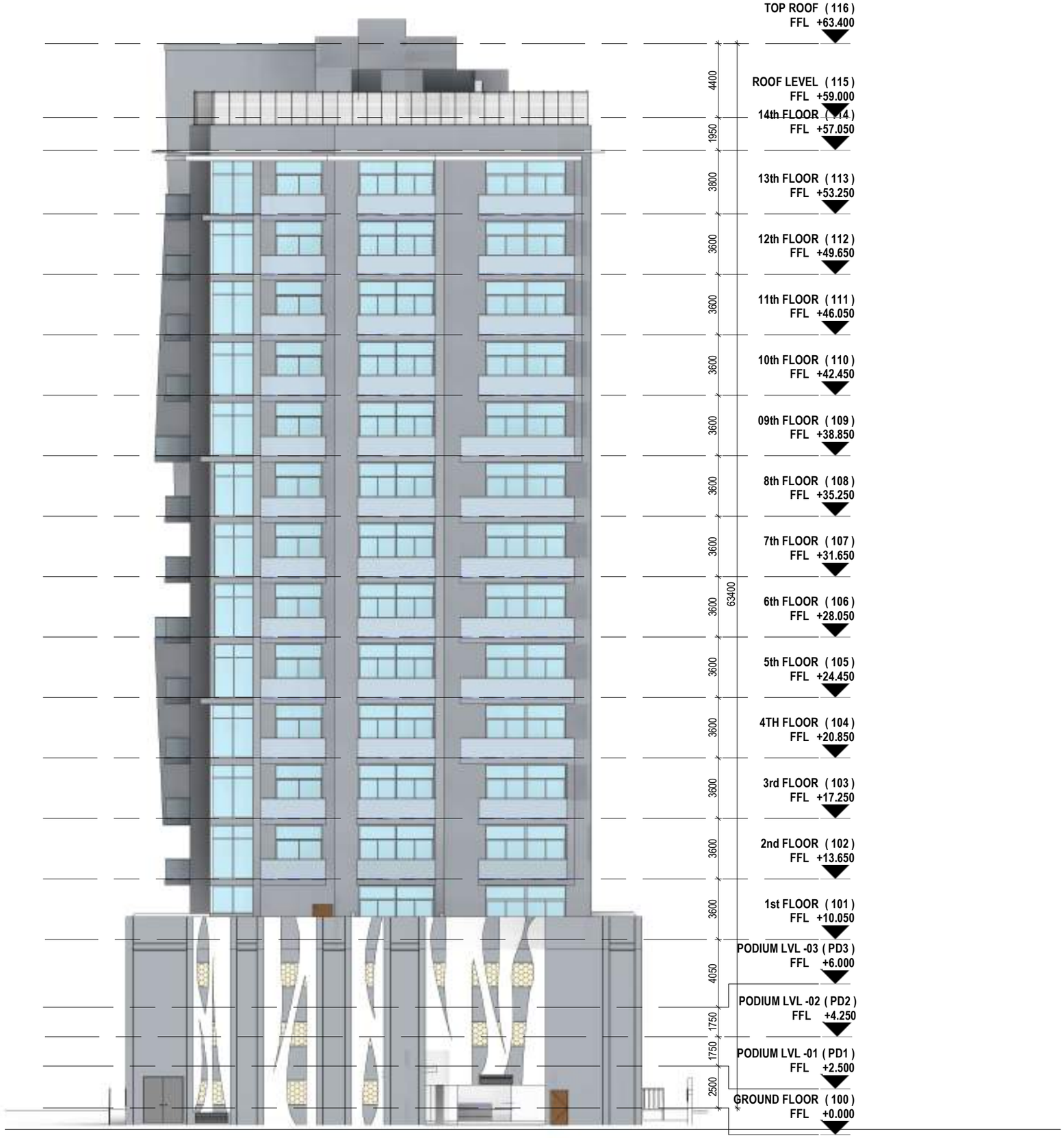
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Basement plan

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007

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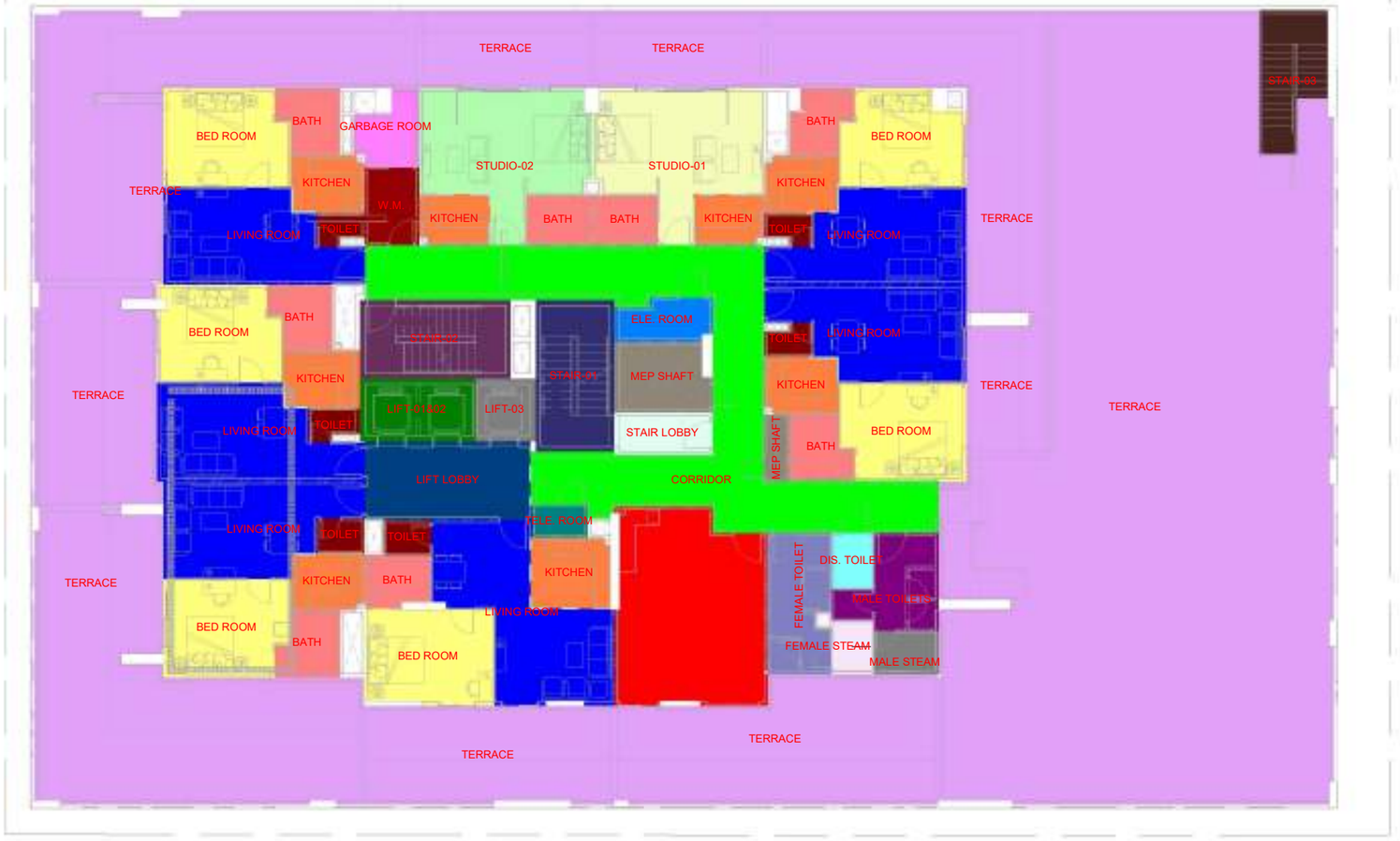
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Project number	1
Date	08.02.2018
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Scale 1 : 250



Colourfill Legend (Floor Level 101-113)

- BATH
- BED ROOM
- CORRIDOR
- DIS. TOILET
- ELE. ROOM
- FEMALE STEAM
- FEMALE TOILET
- GARBAGE ROOM
- GYM
- KITCHEN
- LIFT LOBBY
- LIFT-01&02
- LIFT-03
- LIVING ROOM
- MALE STEAM
- MALE TOILETS
- MEP SHAFT
- STAIR LOBBY
- STAIR-01
- STAIR-02
- STAIR-03
- STUDIO-01
- STUDIO-02
- TELE. ROOM
- TERRACE
- TOILET
- W.M.

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Colourfill Legend

Project number	01
Date	01 June 2025
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009

Scale 1 : 200

Electrical Lighting & Power Systems

ELECTRICAL OVERVIEW

- *Schedule keys method based on Illuminous*
- *Schedule building com method*
- *Placement of lighting*
- *Voltage balancing of lighting fixture*
- *Placement of fan and its voltage balancing*
- *Placement of switch and its voltage balancing*
- *Placement of receptacle and its voltage balancing*
- *Placement of panel board*
- *Voltage balancing of panel board*
- *System creation*
- *Electrical wiring-2D*
- *Cross checking of conduit connector of each element*
- *Conduit connection of each system*
- *Parallel conduit connection*
- *Placement of cable tray*
- *Scheduling of components*



An electrical overview refers to a summary or broad understanding of electrical systems and concepts. It encompasses various aspects of electricity, including how electrical systems function, how they are designed, and their applications in different contexts.

TYPES OF CIRCUITS

- **Light Circuit: The maximum points 10 or 11 switch is not consider as a point, total power must be 800 W**
- **Power Circuit: The maximum points 2 switch is not consider as a point, total power must be 3000 W.**

LIGHTING FIXTURES



- **Ceiling Mounted Fixtures: These luminaires are directly affixed to the ceiling, serving as primary sources napes and sizes circular, square, and rectangular offering a versatile canvas for architectural lighting.**
- **Wall-mounted Luminaires: These fixtures grace vertical surfaces, providing task illumination or highlighting architectural elements. They can be adjusted to specific angles, excelling in precise lig applications.**



- **Pendant Lights: Gracefully suspended from a bow cords or chains, pendant lights combine elegance with functionality. Available in diverse shapes and sizes, they excel in task lighting or accentuating design features.**
- **Track Lighting: This innovative system orchestrates luminaires along ceiling tracks, enabling controlled directional lighting. Its versatility is well-suited 4 for crafting focused lighting arrangements.**
- **Recessed Luminaires: Seamlessly integrated into ceiling planes, recessed luminaires emanate understated sophistication, casting a gentle, diffuse radiance. A hallmark of contemporary aesthetics, they seamlessly harmonize with minimalist design schemes.**







ILLUMINANCE:

Illuminance is the measure of the amount of light that strikes a surface area. It quantifies how much luminous flux (light energy) falls on a particular area and is used to assess how well-lit a space is.

KEY POINTS ABOUT ILLUMINANCE:

Units of Measurement:

- **Lux (lx): The SI (International System of Units) unit of illuminance. I lux is equal to I lumen per square meter (lm/m^2)**
- **Foot-Candle (fc): A unit of illuminance primarily used in the United States. 1 foot-candle is equal to I lumen per square fo**

SWITCHBOARD:

A switchboard is a component of an electrical distribution system which divides an electrical power feed into branch circuits while providing protective circuit breaker or fuse for each circuit in a common enclosure.



DISTRIBUTION BOARD

A DB Board (Distribution Board) is a crucial component in electrical systems used for distributing electrical power from a main source to various circuits. It is designed to house and protect the circuit breakers, fuses, or other protective devices that control electrical distribution within a building or facility. DB Boards are essential for managing electrical distribution and ensuring safety by providing overcurrent protection and isolating electrical faults.

Types of Distribution Boards:

1. **single-phase Distribution Board: These are used for naller, residential or light commercial applications where the incoming supply is single-phase. They typically have fewer circuit breakers to control power distribution.**
2. **Three-Phase Distribution Board: These are used in larger industrial or commercial installations where the supply is three-phase, offering more power and accommodat circuits. Three-phase distribution boards are capable of handling heavier loads and more complex electrical systems.**

3. **Main Distribution Board (MDB): This is the primary distribution board that receives power from the utility or main service and distributes it to sub-distribution boards, such as DB boards for different parts of the building.**
4. **Sub Distribution Board (SDB): A sub-DB board is a secondary distribution board that branches off from the MDB to distribute power to specific areas, like individual foxon sections of a factory, or specific electrical systems.**







Conduit and Conduit Connections Overview:

A conduit is a tube or channel used to protect and route electrical wiring in a building or structure. Conduits are commonly used in electrical installations to ensure the wiring is safe, protected from electrical wirinators, and organized. Conduit can be made from various materials, including metal, plastic, or a combination of both.

Conduit Connections

The connections between conduits and other components (like junction progenes) are essential to ensure safety, structural integrity, and proper grounding. There are different ways to make these connections, each suit to the specific type of conduit.

1. Conduit Fittings:

- **Fittings are used to connect two sections of conduit or to connect conduit to electrical boxes, panels, or devices.**
- **Common types include:**
  - **Elbows: Used to change the direction of the conduit.**
  - **Couplings: Used to join two lengths of conduit.**
  - **Connectors: Used to attach conduit to an electrical box or device.**
  - **Clamps: Used to secure conduit to a surface.**







Electrical RLL Space Schedule		
Number	Name	RLL
1	TERRACE	200 lx
2	TOILET	150 lx
4	BED ROOM	300 lx
5	BATH	150 lx
6	TOILET	150 lx
7	BED ROOM	300 lx
8	BATH	150 lx
11	FEMALE TOILET	150 lx
12	DIS. TOILET	150 lx
15	W.M.	280 lx
18	BED ROOM	300 lx
19	BATH	150 lx
22	BATH	150 lx
23	BATH	150 lx
24	TERRACE	200 lx
25	TERRACE	200 lx
27	BATH	150 lx
28	TELE. ROOM	280 lx
30	STAIR-01	200 lx
33	STAIR-02	200 lx
34	STAIR LOBBY	300 lx
35	MEP SHAFT	280 lx
36	ELE. ROOM	280 lx
39	TERRACE	200 lx
40	GYM	600 lx
43	TOILET	150 lx
45	TOILET	150 lx
47	TOILET	150 lx
50	TOILET	150 lx
51	TERRACE	200 lx
52	KITCHEN	250 lx
53	LIVING ROOM	400 lx

Electrical RLL Space Schedule		
Number	Name	RLL
54	LIVING ROOM	400 lx
55	KITCHEN	250 lx
56	KITCHEN	250 lx
57	LIVING ROOM	400 lx
58	LIVING ROOM	400 lx
59	KITCHEN	250 lx
60	LIVING ROOM	400 lx
61	KITCHEN	250 lx
62	KITCHEN	250 lx
63	KITCHEN	250 lx
64	STUDIO-02	500 lx
65	LIVING ROOM	400 lx
66	KITCHEN	250 lx
67	MALE STEAM	150 lx
68	MALE TOILETS	150 lx
69	FEMALE STEAM	150 lx
70	CORRIDOR	300 lx
71	LIFT LOBBY	300 lx
72	TERRACE	200 lx
73	TERRACE	200 lx
74	TERRACE	200 lx
75	TERRACE	200 lx
77	BATH	150 lx
78	BED ROOM	300 lx
80	GARBAGE ROOM	280 lx
82	BED ROOM	300 lx
83	BATH	150 lx
84	STAIR-03	200 lx
85	TERRACE	200 lx
86	STUDIO-01	500 lx
87	BED ROOM	300 lx

Electrical RLL Space Schedule

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No.	Description	Date

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Electrical

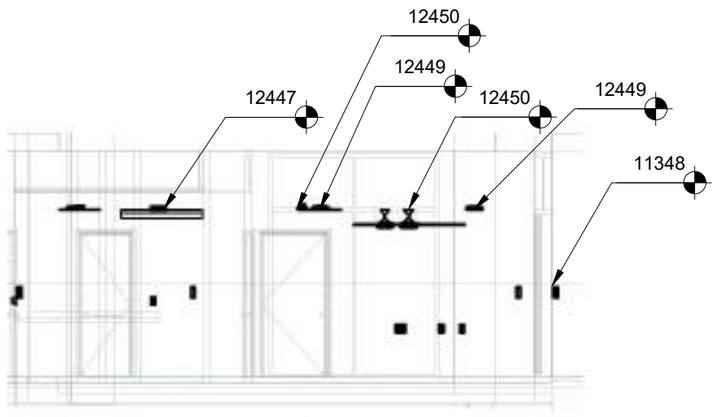
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010

Scale



Floor level (101-113) Position of lighting and electrical fixtures



Spot elivation

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

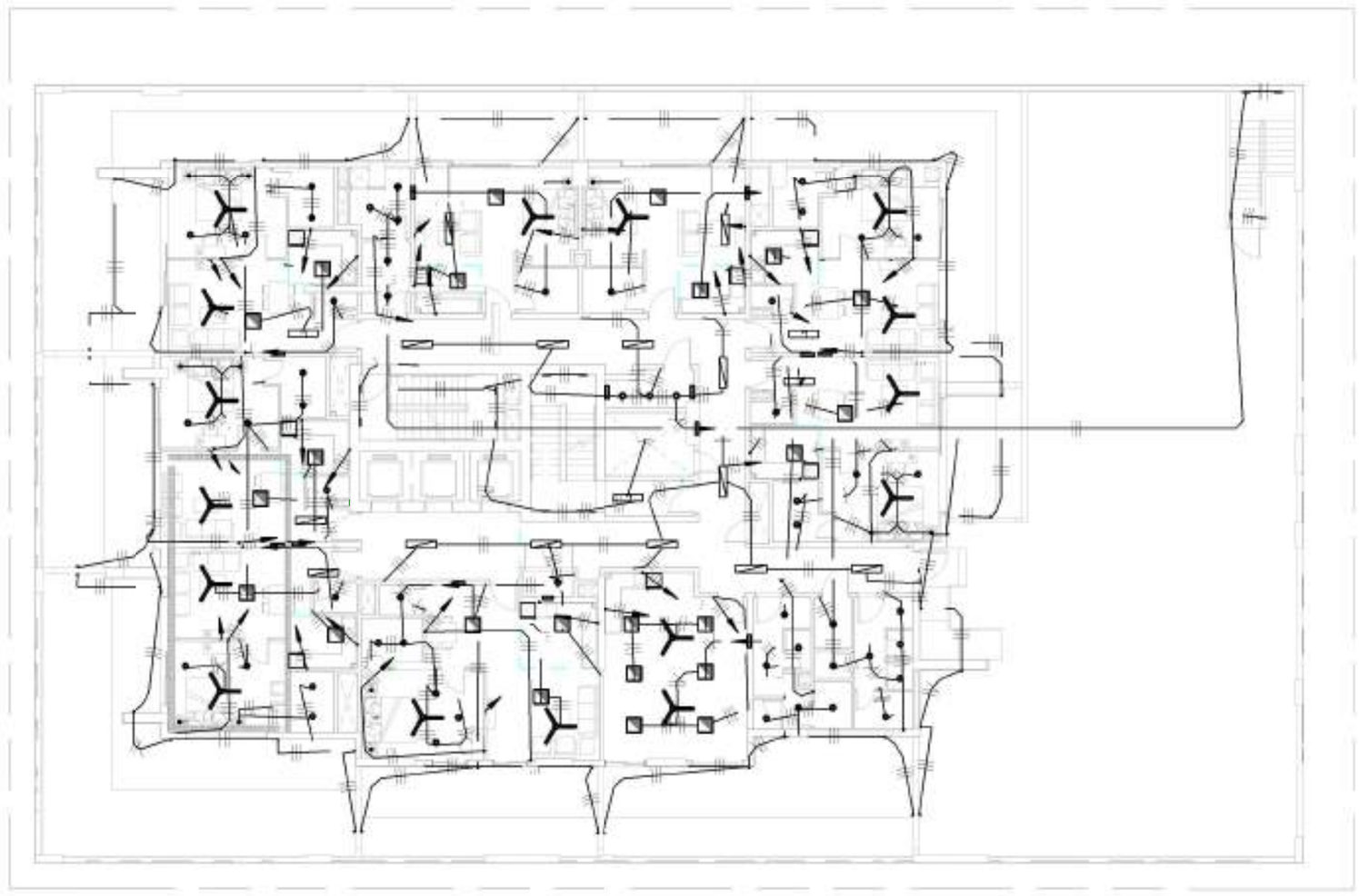
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011

Scale As indicated



Floor level (101-113) Electrical wiring

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

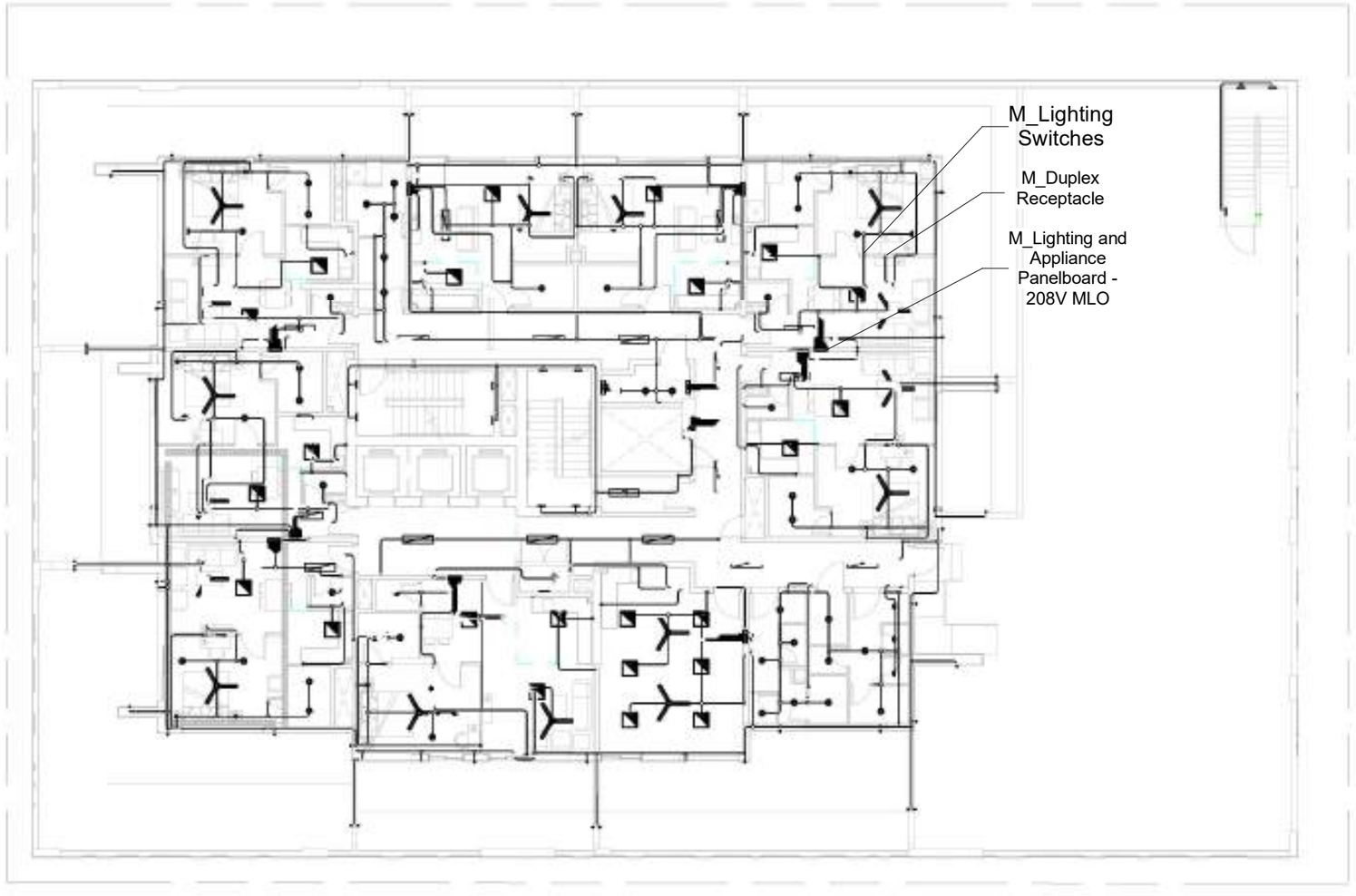
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Electrical

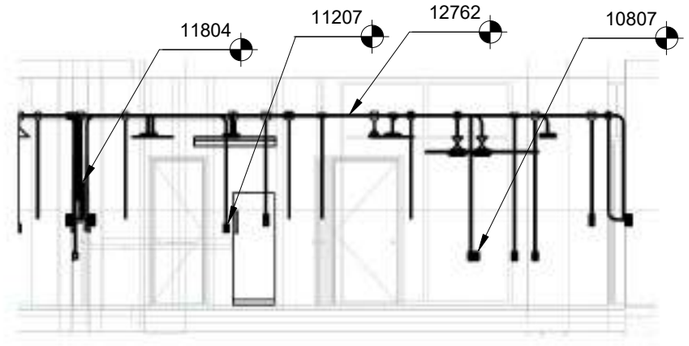
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012

Scale As indicated



Floor level (101-113) Conduit and Conduit fittings



Spot elevation

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

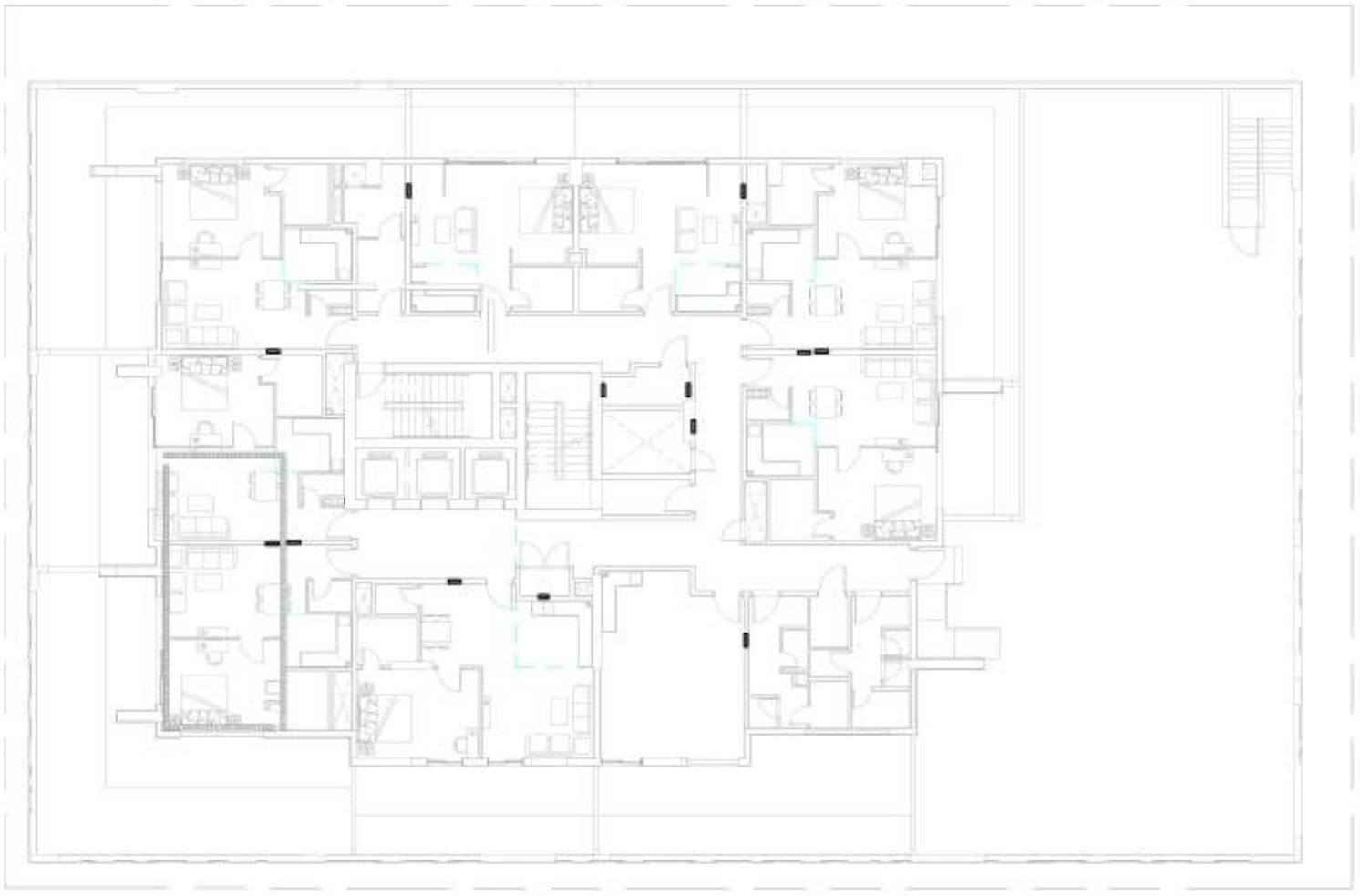
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Electrical

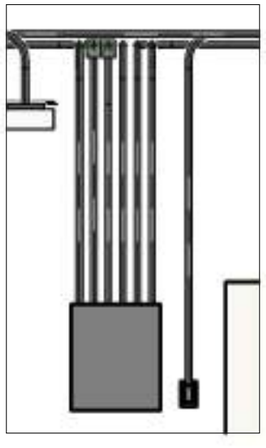
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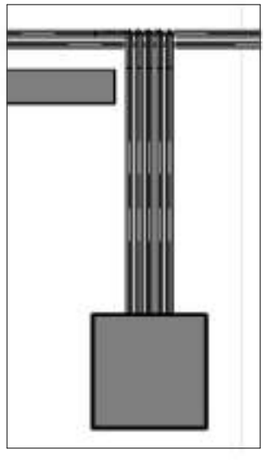
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Floor level (101-113) Position of Panel board



Sub DB



Main DB

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

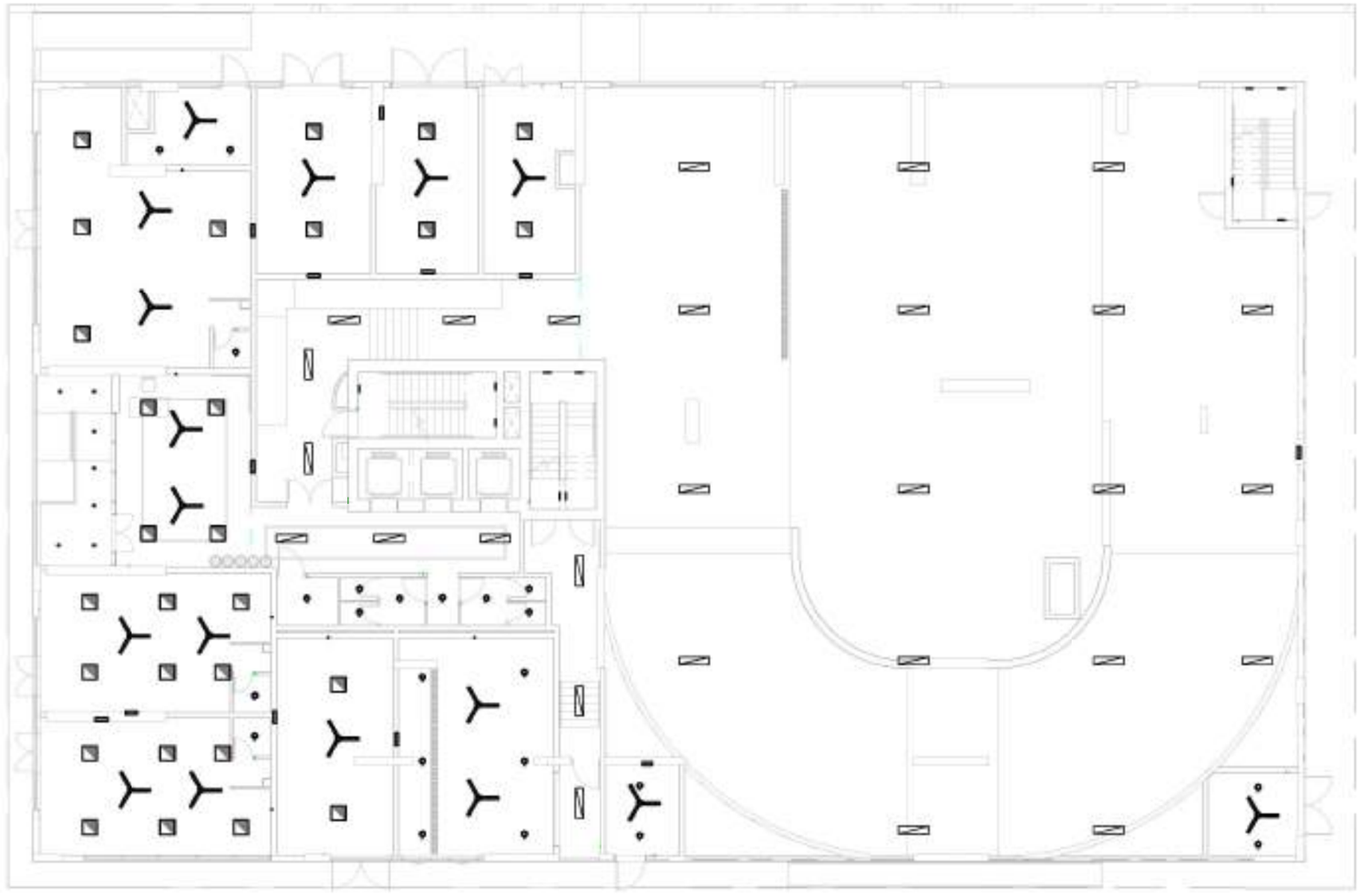
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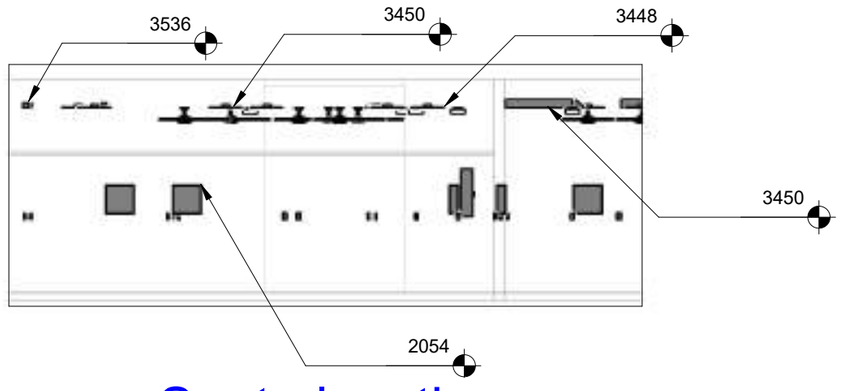
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Scale As indicated



Ground floor (Level 100) Position Lighting and Electrical fixtures



Spot elevation

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

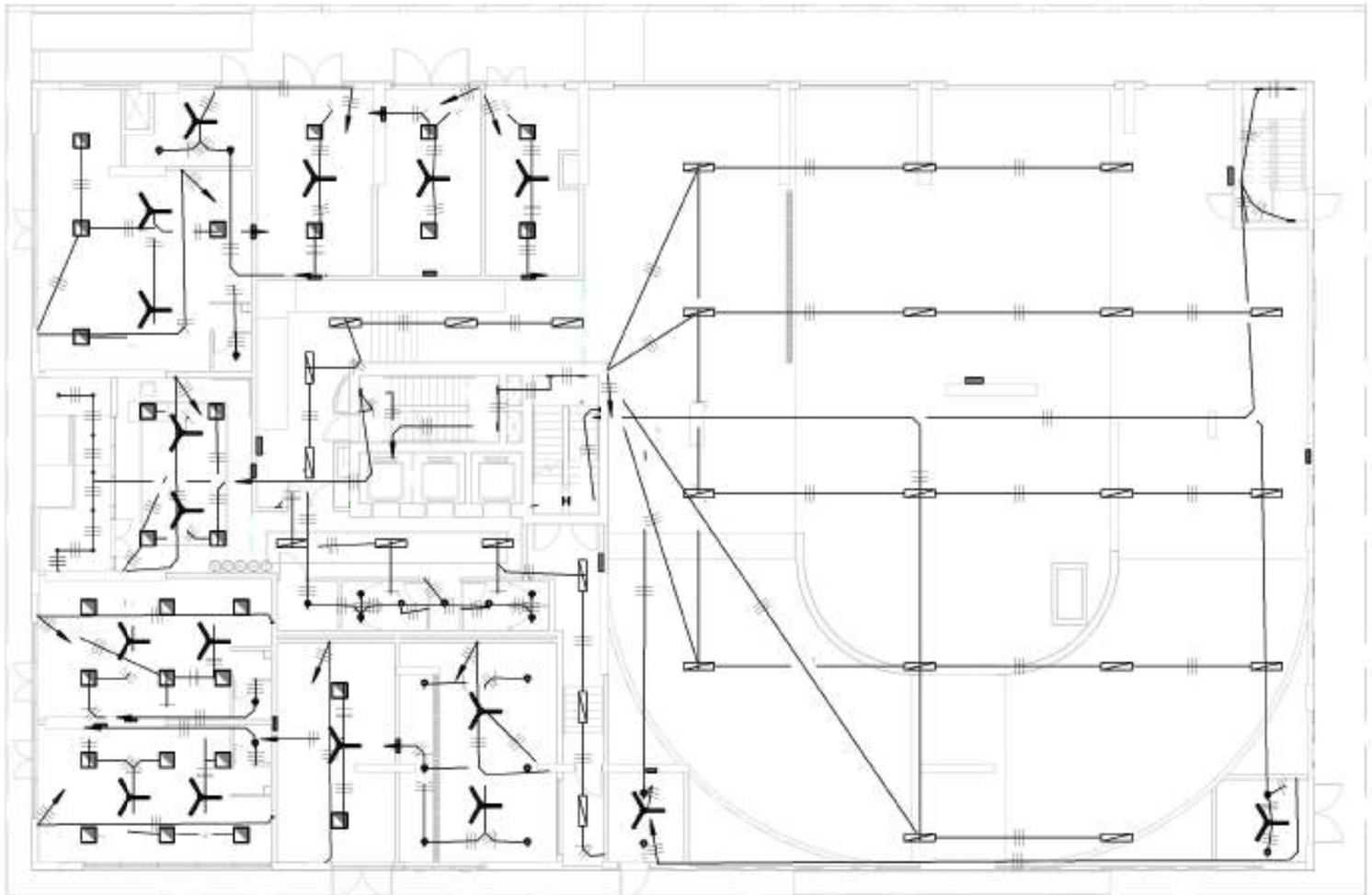
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Scale As indicated



Ground floor (Level 100) Electrical wiring

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

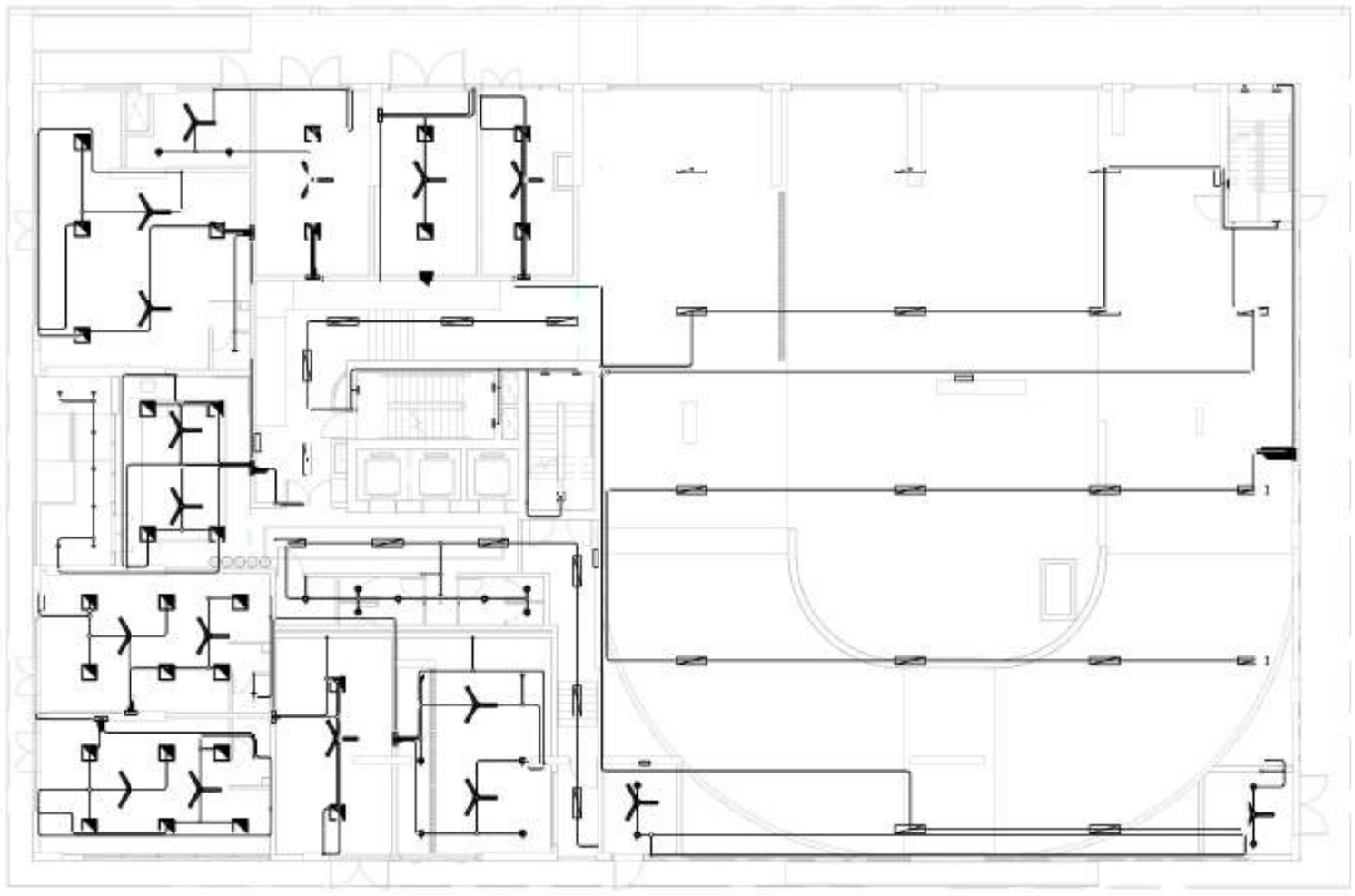
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Electrical

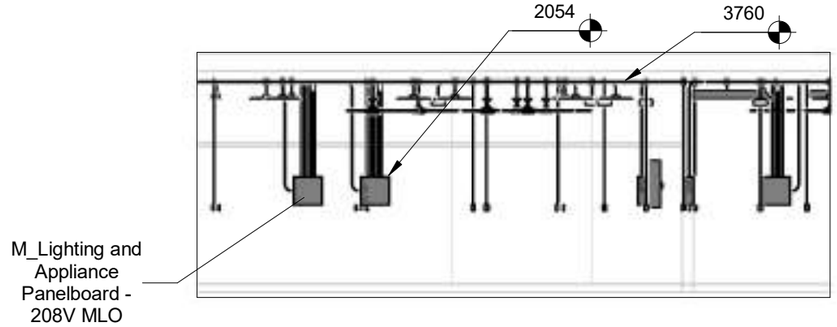
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016

Scale As indicated



Ground floor (Level 100) Conduit and Conduit fittings



Spot elevation

CADD INTERNATIONAL

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

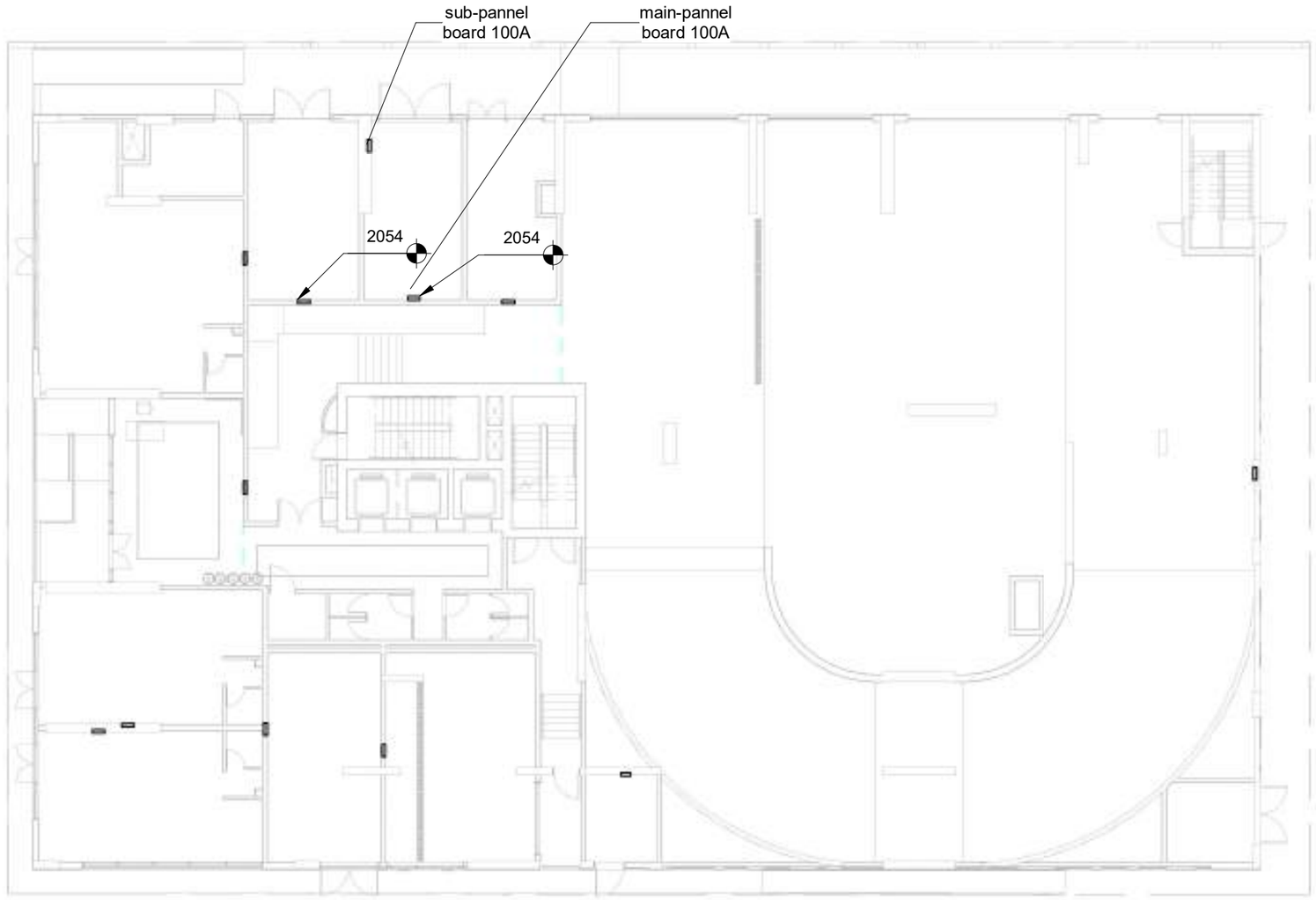
UAE Based Project

Electrical

Project number	01
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017

Scale: As indicated



Ground floor (Level 100) Panel Boards

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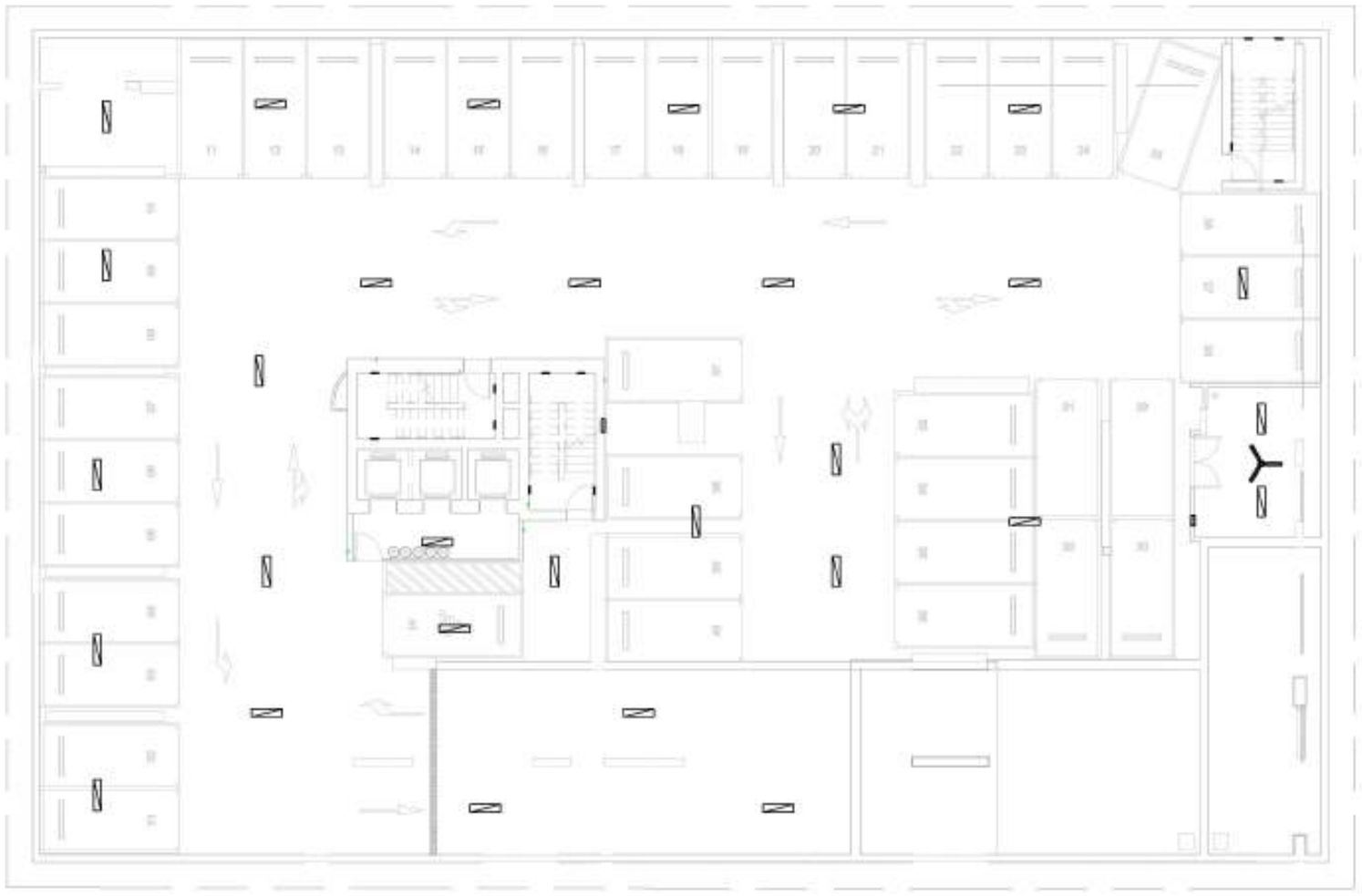
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Electrical

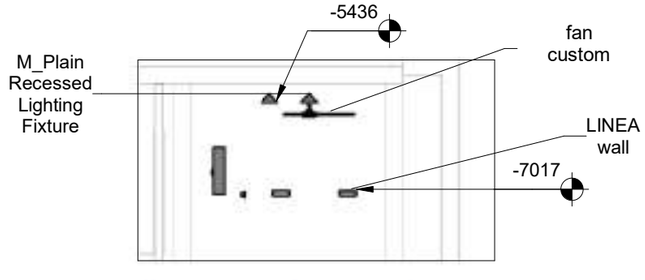
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Scale 1 : 200



Basement floor (Level 98) Light and Electrical fixtures



Spot elevation

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Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

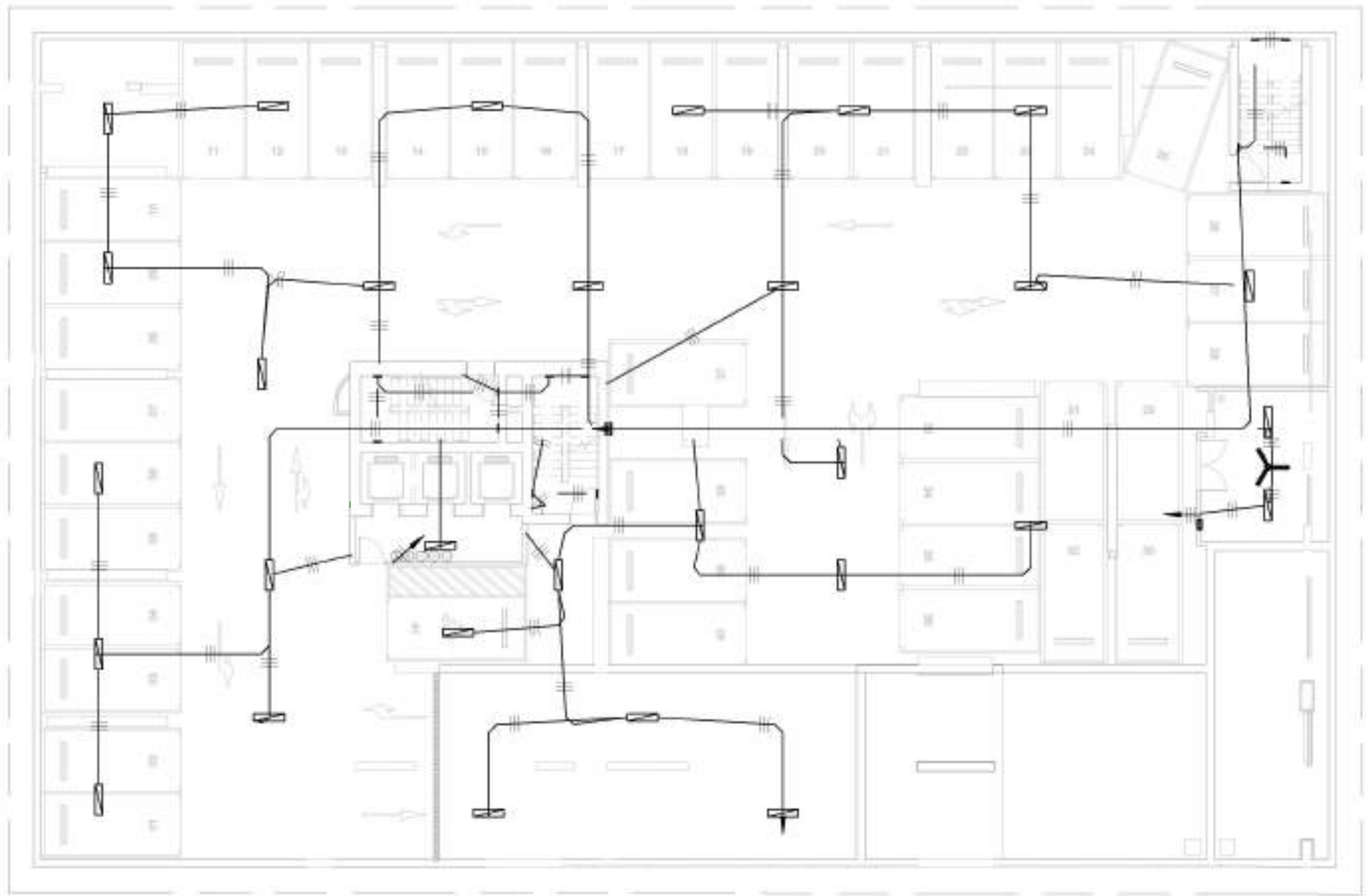
UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

019

Scale: As indicated



Basement floor (Level 98) Electrical wiring

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

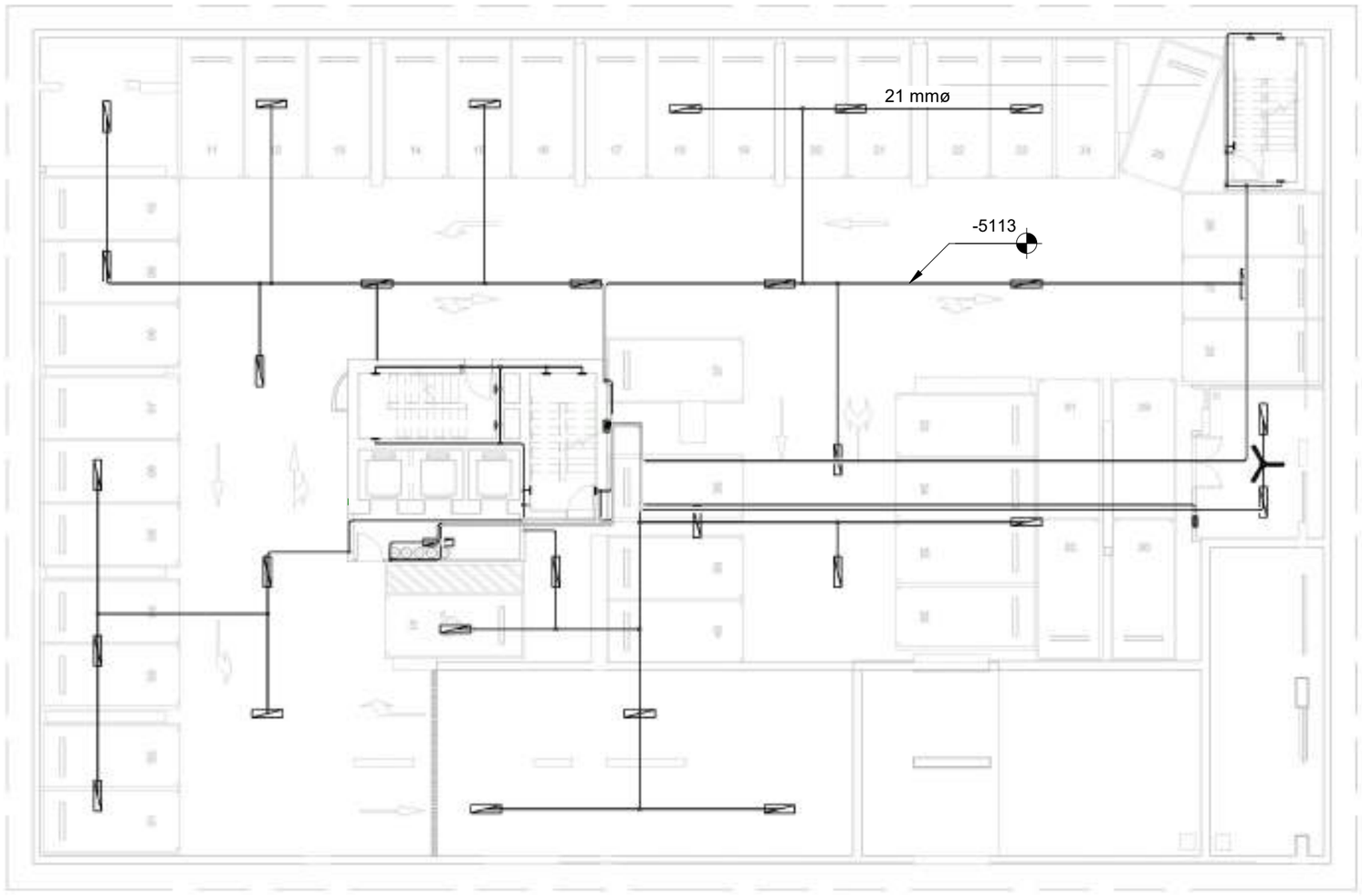
UAE Based Project

Electrical

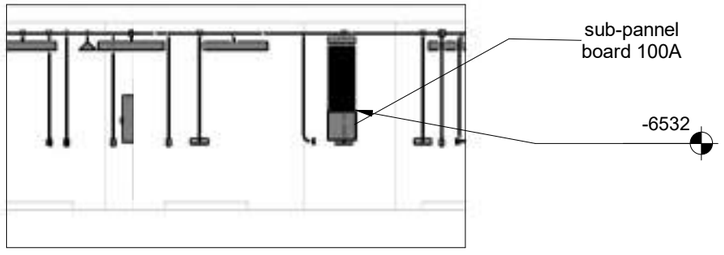
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

020

Scale As indicated



Basement floor (Level 98) Panel, Conduit and Conduit fittings



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
	Electrical Fixture fan
	Round ceiling lights
	Rectangular ceiling lights
	Square Ceiling lights
	Wall Lights
	Electric Switch
	Electric receptacles
	Panel board

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

021

Scale As indicated

Electrical Fixture Schedule			
Family	Level	Count	Elevation from Level
M_Duplex Receptacle	101(+10.050)	37	700
M_Duplex Receptacle	101(+10.050)	18	1100
M_Duplex Receptacle	101(+10.050)	8	1200
fan custom	101(+10.050)	16	2400
M_Duplex Receptacle	100(+0.300M)	19	1200
fan custom	100(+0.300M)	17	3150
M_Duplex Receptacle	FP Basement	2	1200
fan custom	FP Basement	1	2850

Electrical fixture schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

022

Scale

Electrical Equipment Schedule				
Type	Level	Location	Total Connected	Total Connected Current
sub-pannel board 100A	101(+10.050)	LIVING ROOM 53	1321 VA	6 A
sub-pannel board 100A	101(+10.050)	LIVING ROOM 54	1321 VA	6 A
sub-pannel board 100A	101(+10.050)	LIVING ROOM 57	1440 VA	6 A
sub-pannel board 100A	101(+10.050)	GYM 40	720 VA	3 A
sub-pannel board 100A	101(+10.050)	CORRIDOR 70	2232 VA	10 A
sub-pannel board 100A	101(+10.050)	LIVING ROOM 58	1260 VA	5 A
sub-pannel board 100A	101(+10.050)	LIVING ROOM 60	1260 VA	5 A
sub-pannel board 100A	101(+10.050)	STUDIO-01 86	961 VA	4 A
sub-pannel board 100A	101(+10.050)	STUDIO-02 64	961 VA	4 A
sub-pannel board 100A	101(+10.050)	LIVING ROOM 65	1260 VA	5 A
main-pannel board 100A	101(+10.050)		0 VA	0 A
main-pannel board 100A	101(+10.050)	CORRIDOR 70	0 VA	0 A
main-pannel board 100A	100(+0.300M)	CORRIDOE 121	0 VA	0 A
sub-pannel board 100A	100(+0.300M)	RETAIL-02 112	417 VA	2 A
sub-pannel board 100A	100(+0.300M)	RETAIL-03 119	417 VA	2 A
sub-pannel board 100A	100(+0.300M)	LV ROOM 104	360 VA	2 A
sub-pannel board 100A	100(+0.300M)	SUBSTATION ROOM 118	711 VA	3 A
sub-pannel board 100A	100(+0.300M)	PARKING 116	1849 VA	8 A
sub-pannel board 100A	100(+0.300M)	RECEPTION 110	1530 VA	7 A
sub-pannel board 100A	100(+0.300M)	GARBAGE ROOM 108	475 VA	2 A
sub-pannel board 100A	100(+0.300M)	MANAGEMENT ROOM 114	180 VA	1 A
sub-pannel board 100A	100(+0.300M)	GENERATOR ROOM 115	180 VA	1 A
sub-pannel board 100A	100(+0.300M)	RETAIL-01 111	417 VA	2 A
sub-pannel board 100A	FP Basement	PARKING 098-601	2265 VA	10 A

Electrical Equipment Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

023

Scale

Lighting Fixture Schedule			
Family	Level	Count	Type
BIMit-Linear Led Light	101(+10.050)	4	BIMit-Linear Led Light
BIMit-Round Led Ceiling Light	101(+10.050)	9	60W - 220V
focus lights	101(+10.050)	13	focus lights
Light_Fixture-Nora_Lighting-Edge-Lit_Panel	101(+10.050)	23	Not a type - Load Type Catalog
Lighting_Other_LumenWerx_Shell-Recessed-8	101(+10.050)	46	Lighting_Other_LumenWerx_Shell-Recessed-8
LINEA wall	101(+10.050)	11	LINEA opal / asymmetric wall, white, 3000 K, non DIM, 058-6171517AA
M_Plain Recessed Lighting Fixture	101(+10.050)	14	300x1200 - 120
SASSO 60 round wall direct indirect	101(+10.050)	44	SASSO 60 round direct / indirect wall, black, 2700 K, non DIM, UGR < 22, 048-31604111O
BIMit-Round Led Ceiling Light	100(+0.300M)	23	60W - 220V
Light_Fixture-Nora_Lighting-Edge-Lit_Panel	100(+0.300M)	28	Not a type - Load Type Catalog
Lighting-Recessed-Lumenwerx-Aera_4_Downligh_Round	100(+0.300M)	7	AERA4-ROUND-RECESSED-SW-15-80-35-SDL-14W-BEVEL-TRIM
LINEA wall	100(+0.300M)	11	LINEA opal / asymmetric wall, white, 3000 K, non DIM, 058-6171517AA
M_Plain Recessed Lighting Fixture	100(+0.300M)	28	300x1200 - 120
LINEA wall	FP Basement	12	LINEA opal / asymmetric wall, white, 3000 K, non DIM, 058-6171517AA
M_Plain Recessed Lighting Fixture	FP Basement	30	300x1200 - 120

Lighting Fixture Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

024

Scale

Branch Panel:

Location: LIVING ROOM 53
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 1 74	20 A	1	0 VA	64 VA	1	20 A	LIVING ROOM 1 53	2
3	Other Room 53	20 A	1	0 VA	0 VA	1	20 A	Other BED ROOM 1 7	4
5	Receptacle BED ROOM 1 7	20 A	1	360 VA	360 VA	1	20 A	Receptacle LIVING ROOM 1 53	6
7	Receptacle LIVING ROOM 1 53	20 A	1	180 VA	0 VA	1	20 A	Other Room 53	8
9	Receptacle KITCHEN 1 52	20 A	1	180 VA	180 VA	1	20 A	Receptacle KITCHEN 1 52	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1321 VA
Total Amps: 6 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	64 VA	100.00%	64 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	1321 VA
Receptacle	1260 VA	100.00%	1260 VA	**Total Est. Demand:**	1321 VA
				Total Conn.:	6 A
				Total Est. Demand:	6 A

Notes:

Floor 101 -Appartment 1 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

025

Scale

Branch Panel:

Location: LIVING ROOM 54
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 6 73	20 A	1	0 VA	64 VA	1	20 A	LIVING ROOM 6 54	2
3	Other Room 54	20 A	1	0 VA	0 VA	1	20 A	Other Room 54	4
5	Other BED ROOM 6 87	20 A	1	0 VA	360 VA	1	20 A	Receptacle BED ROOM 6 87	6
7	Receptacle LIVING ROOM 6 54	20 A	1	360 VA	180 VA	1	20 A	Receptacle LIVING ROOM 6 54	8
9	Receptacle KITCHEN 6 55	20 A	1	180 VA	180 VA	1	20 A	Receptacle KITCHEN 6 55	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1321 VA
Total Amps: 6 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	64 VA	100.00%	64 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	1321 VA
Receptacle	1260 VA	100.00%	1260 VA	**Total Est. Demand:**	1321 VA
				Total Conn.:	6 A
				Total Est. Demand:	6 A

Notes:

Floor 101 -Appartment 2 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

026

Scale

Branch Panel:

Location: LIVING ROOM 57
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 2 24	20 A	1	0 VA	0 VA	1	20 A	Other Room 82	2
3	Other Room 57	20 A	1	0 VA	0 VA	1	20 A	Other Room 57	4
5	Other LIVING ROOM 2 57	20 A	1	0 VA	360 VA	1	20 A	Receptacle BED ROOM 2 82	6
7	Receptacle LIVING ROOM 2 57	20 A	1	360 VA	180 VA	1	20 A	Receptacle KITCHEN 2 56	8
9	Receptacle KITCHEN 2 56	20 A	1	180 VA	360 VA	1	20 A	Receptacle LIVING ROOM 2 57	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1440 VA
Total Amps: 6 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	1440 VA	100.00%	1440 VA	**Total Conn. Load:**	1440 VA
				Total Est. Demand:	1440 VA
				Total Conn.:	6 A
				Total Est. Demand:	6 A

Notes:

Floor 101 -Appartment 3 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

027

Scale

Branch Panel:

Location: LIVING ROOM 58
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 3 72	20 A	1	0 VA	0 VA	1	20 A	LIVING ROOM 3 58	2
3	Other Room 58	20 A	1	0 VA	360 VA	1	20 A	Receptacle LIVING ROOM 3 58	4
5	Receptacle LIVING ROOM 3 58	20 A	1	180 VA	0 VA	1	20 A	Other Room 58	6
7	Receptacle KITCHEN 3 59	20 A	1	180 VA	180 VA	1	20 A	Receptacle KITCHEN 3 59	8
9	Other Room 18	20 A	1	0 VA	360 VA	1	20 A	Receptacle BED ROOM 3 18	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1260 VA
Total Amps: 5 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	1260 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	1260 VA
				Total Conn.:	5 A
				Total Est. Demand:	5 A

Notes:

Floor 101 -Appartment 4 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

028

Scale

Branch Panel:

Location: LIVING ROOM 60
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 4 75	20 A	1	0 VA	0 VA	1	20 A	LIVING ROOM 4 60	2
3	Other Room 60	20 A	1	0 VA	0 VA	1	20 A	Other BED ROOM 4 78	4
5	Other Room 60	20 A	1	0 VA	180 VA	1	20 A	Receptacle LIVING ROOM 4 60	6
7	Receptacle LIVING ROOM 4 60	20 A	1	360 VA	360 VA	1	20 A	Receptacle BED ROOM 4 78	8
9	Receptacle KITCHEN 4 61	20 A	1	180 VA	180 VA	1	20 A	Receptacle KITCHEN 4 61	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1260 VA
Total Amps: 5 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	1260 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	1260 VA
				Total Conn.:	5 A
				Total Est. Demand:	5 A

Notes:

Floor 101 -Appartment 5 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

029

Scale

Branch Panel:

Location: LIVING ROOM 65
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 5 39	20 A	1	0 VA	0 VA	1	20 A	LIVING ROOM 5 65	2
3	Other Room 65	20 A	1	0 VA	0 VA	1	20 A	Other Room 4	4
5	Receptacle BED ROOM 5 4	20 A	1	360 VA	360 VA	1	20 A	Receptacle LIVING ROOM 5 65	6
7	Receptacle KITCHEN 5 66	20 A	1	180 VA	180 VA	1	20 A	Receptacle KITCHEN 5 66	8
9	Receptacle LIVING ROOM 5 65	20 A	1	180 VA	0 VA	1	20 A	Other Room 65	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1260 VA
Total Amps: 5 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	1260 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	1260 VA
				Total Conn.:	5 A
				Total Est. Demand:	5 A

Notes:

Floor 101 -Appartment 6 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

030

Scale

Branch Panel:

Location: STUDIO-01 86
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	STUDIO-01 86	20 A	1	64 VA	0 VA	1	20 A	Other TERRACE 51	2
3	Other Room 86	20 A	1	0 VA	0 VA	1	20 A	Other Room 86	4
5	Receptacle STUDIO-01 86	20 A	1	360 VA	180 VA	1	20 A	Receptacle KITCHEN 62	6
7	Receptacle KITCHEN 62	20 A	1	180 VA	180 VA	1	20 A	Receptacle STUDIO-01 86	8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 961 VA
Total Amps: 4 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	64 VA	100.00%	64 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	961 VA
Receptacle	900 VA	100.00%	900 VA	**Total Est. Demand:**	961 VA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes:

Floor 101- Studio 1 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

031

Scale

Branch Panel:

Location: STUDIO-02 64
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other TERRACE 1	20 A	1	0 VA	64 VA	1	20 A	STUDIO-02 64	2
3	Other Room 64	20 A	1	0 VA	0 VA	1	20 A	Other Room 64	4
5	Receptacle KITCHEN 63	20 A	1	180 VA	180 VA	1	20 A	Receptacle KITCHEN 63	6
7	Receptacle STUDIO-02 64	20 A	1	360 VA	180 VA	1	20 A	Receptacle STUDIO-02 64	8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42
			Total Load:	961 VA					
			Total Amps:	4 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	64 VA	100.00%	64 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	961 VA
Receptacle	900 VA	100.00%	900 VA	**Total Est. Demand:**	961 VA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes:

Floor 101- Studio 2 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

032

Scale

Branch Panel:

Location: GYM 40
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other Room 40	20 A	1	0 VA	0 VA	1	20 A	Other Room 40	2
3	Receptacle GYM 40	20 A	1	360 VA	180 VA	1	20 A	Receptacle GYM 40	4
5	Receptacle GYM 40	20 A	1	180 VA	0 VA	1	20 A	Other TERRACE 25	6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42
			Total Load:	720 VA					
			Total Amps:	3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	720 VA	100.00%	720 VA	**Total Conn. Load:**	720 VA
				Total Est. Demand:	720 VA
				Total Conn.:	3 A
				Total Est. Demand:	3 A

Notes:

Floor 101- Gym Panel Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

033

Scale

Branch Panel:

Location: CORRIDOR 70
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other Room 11	20 A	1	0 VA	360 VA	1	20 A	Receptacle Room 69, 11	2
3	Other Room 12, 68	20 A	1	0 VA	360 VA	1	20 A	Receptacle Room 68, 67	4
5	Other TERRACE 85	20 A	1	0 VA	0 VA	1	20 A	Room 30, 34	6
7	Room 80, 15	20 A	1	300 VA	360 VA	1	20 A	Receptacle Room 80, 15	8
9	ELE. ROOM 36	20 A	1	436 VA					10
11	Room 71, 70, 85	20 A	1	444 VA	0 VA	1	20 A	Other Room 84, 85	12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 2232 VA
Total Amps: 10 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	1180 VA	100.00%	1180 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	2232 VA
Receptacle	1080 VA	100.00%	1080 VA	**Total Est. Demand:**	2232 VA
Lighting	0 VA	0.00%	0 VA	**Total Conn.:**	10 A
				Total Est. Demand:	10 A

Notes:

Floor 101- Corridor Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

034

Scale

Branch Panel:

Location: RETAIL-01 111
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other Room 111	20 A	1	0 VA	60 VA	1	20 A	Room 111	2
3	Other Room 111	20 A	1	0 VA	360 VA	1	20 A	Receptacle RETAIL-01 111	4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 417 VA
Total Amps: 2 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	60 VA	100.00%	60 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	417 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	417 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

Ground - Retail 1 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

035

Scale

Branch Panel:

Location: RETAIL-02 112
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other Room 112	20 A	1	0 VA	0 VA	1	20 A	Other Room 112	2
3	Receptacle RETAIL-02 112	20 A	1	360 VA	60 VA	1	20 A	Room 112	4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42
		Total Load:		417 VA					
		Total Amps:		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	60 VA	100.00%	60 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	417 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	417 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

Ground - Retail 2 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

036

Scale

Branch Panel:

Location: RETAIL-03 119
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other Room 119	20 A	1	0 VA	0 VA	1	20 A	Other Room 119	2
3	Receptacle RETAIL-03 119	20 A	1	360 VA	60 VA	1	20 A	Room 119	4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42
			Total Load:	417 VA					
			Total Amps:	2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	60 VA	100.00%	60 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	417 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	417 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

Ground - Retail 3 Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

037

Scale

Branch Panel:

Location: RECEPTION 110
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other MAIN ENTRANCE 90	20 A	1	0 VA	0 VA	1	20 A	Other Room 110	2
3	Other Room 110	20 A	1	0 VA	360 VA	1	20 A	Receptacle RECEPTION 110	4
5	CORRIDOE 121	20 A	1	320 VA	444 VA	1	20 A	Room 117, 109	6
7	Room 101, 100, 98	20 A	1	420 VA	0 VA	1	20 A	Other Room 94, 96	8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1530 VA
Total Amps: 7 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	1184 VA	100.00%	1184 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	1530 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	1530 VA
				Total Conn.:	7 A
				Total Est. Demand:	7 A

Notes:

Ground - Reception Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

038

Scale

Branch Panel:

Location: MANAGEMENT ROOM 114
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other Room 114	20 A	1	0 VA	180 VA	1	20 A	Receptacle MANAGEMENT ROOM 114	2
3									4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 180 VA
Total Amps: 1 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	180 VA	100.00%	180 VA	**Total Conn. Load:**	180 VA
				Total Est. Demand:	180 VA
				Total Conn.:	1 A
				Total Est. Demand:	1 A

Notes:

Ground - Management Room Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

039

Scale

Branch Panel:

Location: LV ROOM 104
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other LV ROOM 104	20 A	1	0 VA	360 VA	1	20 A	Receptacle LV ROOM 104	2
3									4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42
		Total Load:		360 VA					
		Total Amps:		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:**	360 VA
				Total Est. Demand:	360 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

Ground - L V Room Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

040

Scale

Branch Panel:

Location: GENERATOR ROOM 115
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Other GENERATOR ROOM 115	20 A	1	0 VA	180 VA	1	20 A	Receptacle GENERATOR ROOM 115	2
3									4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 180 VA
Total Amps: 1 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	180 VA	100.00%	180 VA	**Total Conn. Load:**	180 VA
				Total Est. Demand:	180 VA
				Total Conn.:	1 A
				Total Est. Demand:	1 A

Notes:

Ground - Generator Room Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

041

Scale

Branch Panel:

Location: GARBAGE ROOM 108
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Room 107	20 A	1	120 VA	0 VA	1	20 A	Other GARBAGE ROOM 108	2
3	Receptacle Room 107, 108	20 A	1	360 VA					4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 475 VA
Total Amps: 2 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	120 VA	100.00%	120 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	475 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	475 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

Ground - Garbage Room Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

042

Scale

Branch Panel:

Location: PARKING 116
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Room 105	20 A	1	120 VA	120 VA	1	20 A	TELE. ROOM 102	2
3	Receptacle Room 102, 105	20 A	1	360 VA	0 VA	1	20 A	Other STAIR 92	4
5	PARKING 116	20 A	1	192 VA	256 VA	1	20 A	PARKING 116	6
7	PARKING 116	20 A	1	256 VA	256 VA	1	20 A	PARKING 116	8
9	PARKING 116	20 A	1	128 VA	180 VA	1	20 A	Receptacle PARKING 116	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 1849 VA
Total Amps: 8 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	1328 VA	100.00%	1328 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	1849 VA
Receptacle	540 VA	100.00%	540 VA	**Total Est. Demand:**	1849 VA
				Total Conn.:	8 A
				Total Est. Demand:	8 A

Notes:

Ground - Parking Area Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

043

Scale

Branch Panel:

Location: SUBSTATION ROOM 118
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	SUBSTATION ROOM 118	20 A	1	180 VA	180 VA	1	20 A	SUBSTATION ROOM 118	2
3	Receptacle SUBSTATION ROOM 118	20 A	1	360 VA					4
5									6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42
			Total Load:	711 VA					
			Total Amps:	3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	360 VA	100.00%	360 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	711 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	711 VA
				Total Conn.:	3 A
				Total Est. Demand:	3 A

Notes:

Ground - Substation Room Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

044

Scale

Branch Panel:

Location: PARKING 098-601
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 230
Phases: 1
Wires: 2

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Room 135	20 A	1	64 VA	0 VA	1	20 A	Other Room 131, 130	2
3	Receptacle Space 135	20 A	1	180 VA	448 VA	1	20 A	PARKING 098-601	4
5	PARKING 098-601	20 A	1	448 VA	512 VA	1	20 A	PARKING 098-601	6
7	PARKING 098-601	20 A	1	320 VA	128 VA	1	20 A	PUMP ROOM 098-504	8
9	Receptacle PUMP ROOM 098-504	20 A	1	180 VA	0 VA	1	20 A	Other STAIR-03 098-705	10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30
31									32
33									34
35									36
37									38
39									40
41									42

Total Load: 2265 VA
Total Amps: 10 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	1920 VA	100.00%	1920 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	2265 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	2265 VA
				Total Conn.:	10 A
				Total Est. Demand:	10 A

Notes:

Ground - Parking Space Panel Schedule

CADD INTERNATIONAL
www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

045

Scale



Ceiling Lights



Wall Lights



Switches and Receptacles



Ceiling Fan



Panel Board

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

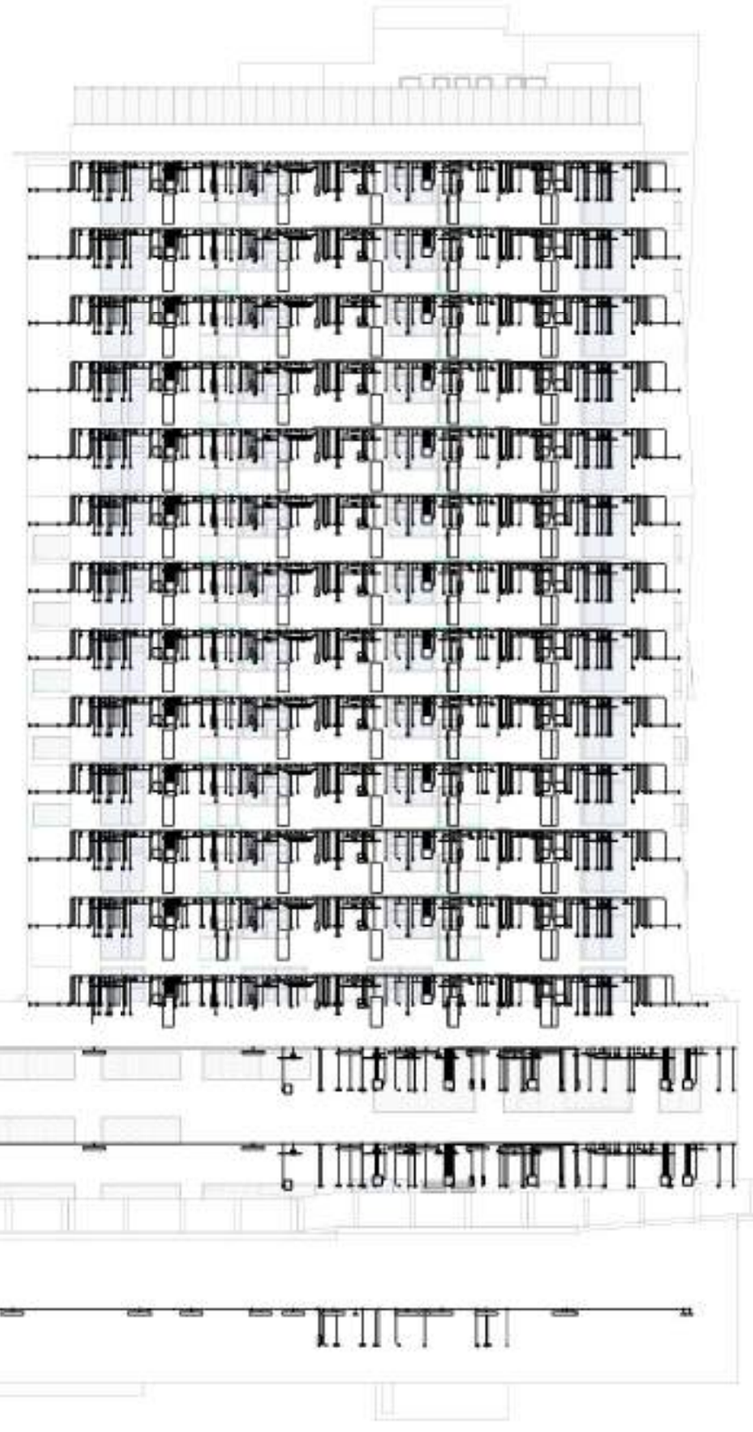
UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

046

Scale



Electrical 3D View

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Electrical

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

047

Scale

HVAC SYSTEMS

HVAC-SUPPLY SYSTEM – OVERVIEW:

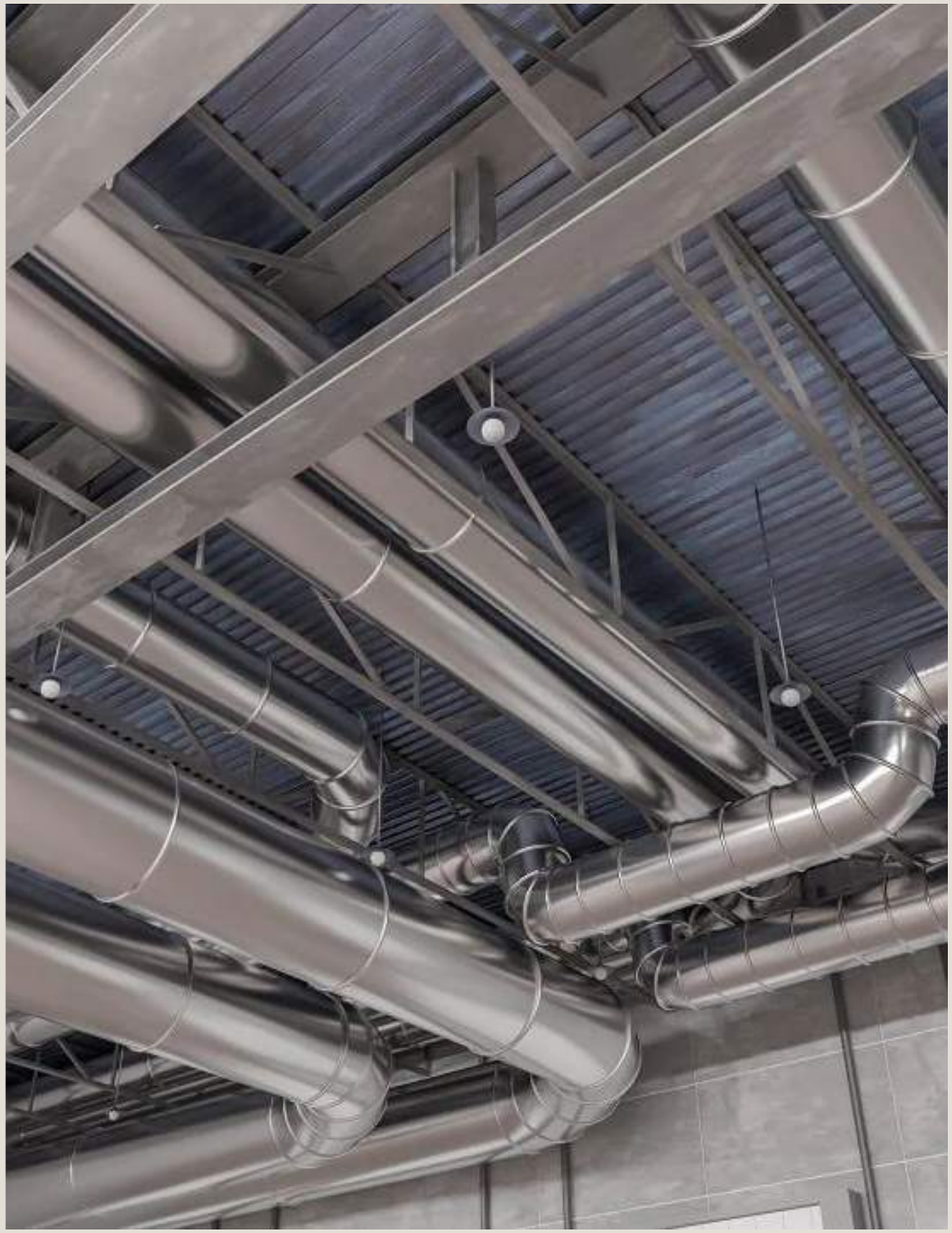
- **Schedule keys method based on HAP report**
- **Schedule building components method**
- **Placement of supply air terminal**
- **Balancing the air flow**
- **Placement of mechanical equipment**
- **Creation of supply system**
- **Supply duct connection of each system**

HVAC-RETURN SYSTEM – OVERVIEW:

- **Schedule building components method**
- **Placement of return air terminal**
- **Balancing the air flow**
- **Creation of return system**
- **Return duct connection of each system**

HVAC-EXHAUST SYSTEM-OVERVIEW:

- **Placement of exhaust fan**
- **Placement of exhaust air terminal**
- **Manual duct connection**



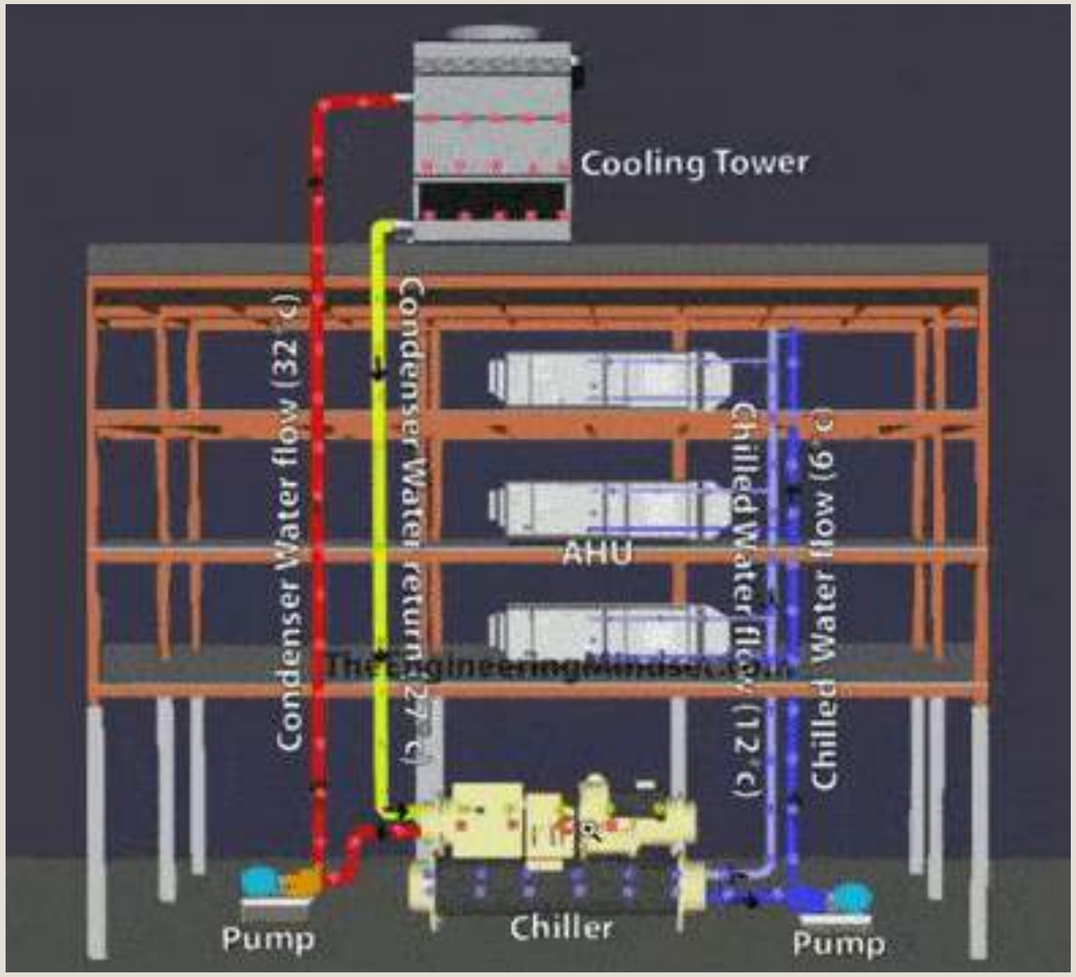
A duct system is an essential component of an HVAC (Heating, Ventilation, and Air Conditioning) system. It refers to the network of pipes or tubes used to distribute heated or cooled air throughout a building, ensuring that the desired temperature and air quality are maintained in each room or area. The ducts also carry the return air back to the HVAC unit for reconditioning. Here's an overview of the duct system.

Components of a Duct System:

- **Supply Ducts: These are the ducts that carry conditioned the building. They are typically larger in diameter. cooled) from the HVAC unit to different rooms or zones**
- **Return Ducts: These ducts return air from the rooms back to the HVAC unit to be recoil. They are often smaller than supply ducts and may have filters to remove dust and debris from the air before it enters the system.**
- **Exhaust Duct: A ventilation system component designed to carry air or gases out of a building or facility, typically from appliances, industrial systems, or any area that generates exhaust, like kitchens, bathrooms, or factories. The purpose of the exhaust duct is to expel unwanted or hazardous gases (such as smoke, fumes, or steam) to the outside environment, ensuring better air quality and preventing the buildup of harmful substances indoors.**
- **Dampers: These are movable plates inside the ducts that can regulate or block airflow. They are used for balancing the system or zones.**
- **Plenums: Large boxes or chambers that are located at the beginning of the duct system. They distribute air from the HVAC unit into the supply ducts or return air back to the HVAC unit from the return ducts.**

How the Duct System Works:

- **Air Flow: Air is drawn into the HVAC system through return ducts. The sitested, cooled, or filtered) and then pushed into the supply ducts.**
- **Air Distribution: The conditioned air flows through the supply ducts to var in the rooms. These vents allow air to enter the rooms, adjusting the temperature and providing comfort**
- **Air Return: Once the air in the room has circulated and is warmer or cooler that the HVAC unit through we return ducts, where it is reconditioned (heated or cooled again) and the cycle repeats.**





Duct Insulation and Sealing:

- **Insulation: Ducts can be insulated to prevent heat loss or gain, especially in areas where the ducts travel through unconditioned spaces like attics, basements, or crawl spaces. Insulation helps maintain energy efficiency and prevents condensation that could lead to mold or water damage.**
- **Sealing: Ducts must be properly sealed to prevent air leakage. Leaks in the duct system can lead to energy loss, reduced system efficiency, and higher utility bills. Sealing is done with duct mastic or metal tape.**

Duct Sizing and Design:

- **Proper duct sizing is crucial for system efficiency. If the ducts are too small, the system may not deliver enough air to maintain comfort If the ducts are too large, they may be inefficient and lead to increased energy use.**
- **The design of the duct system must take into account the building's layout, the size of rooms, the HVAC unit's capacity, and the total airflow needed. An improper design could result in uneven heating or cooling, making some rooms too warm or cold.**







CSAF Space Style Schedule	
Key Name	CSAF

Bedrooms	245.0 L/s
Gym	575.0 L/s
Living rooms	425.0 L/s
Studios	465.0 L/s

Supply Air Flow Space Schedule			
Name	CSAF value	Actual Supply Airflow	Delta Supply
BED ROOM	245.0 L/s	245.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	245.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	0.0 L/s	245.0 L/s
GYM	575.0 L/s	0.0 L/s	575.0 L/s
LIVING ROOM	425.0 L/s	425.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	425.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	213.0 L/s	212.0 L/s
LIVING ROOM	425.0 L/s	0.0 L/s	425.0 L/s
LIVING ROOM	425.0 L/s	425.0 L/s	0.0 L/s
STUDIO-02	465.0 L/s	465.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	425.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	245.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	245.0 L/s	0.0 L/s
STUDIO-01	465.0 L/s	465.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	245.0 L/s	0.0 L/s

Supply Air Flow Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

048

Scale

Return Air Flow Space Schedule				
Name	CSAF value	CRAF value	Actual Return Airflow	Delta Return
BED ROOM	245.0 L/s	196.0 L/s	196.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	196.0 L/s	196.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	196.0 L/s	196.0 L/s	0.0 L/s
GYM	575.0 L/s	460.0 L/s	0.0 L/s	460.0 L/s
LIVING ROOM	425.0 L/s	340.0 L/s	340.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	340.0 L/s	340.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	340.0 L/s	340.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	340.0 L/s	340.0 L/s	0.0 L/s
STUDIO-02	465.0 L/s	372.0 L/s	372.0 L/s	0.0 L/s
LIVING ROOM	425.0 L/s	340.0 L/s	340.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	196.0 L/s	196.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	196.0 L/s	0.0 L/s	196.0 L/s
STUDIO-01	465.0 L/s	372.0 L/s	372.0 L/s	0.0 L/s
BED ROOM	245.0 L/s	196.0 L/s	196.0 L/s	0.0 L/s

Return Air Flow Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

HVAC

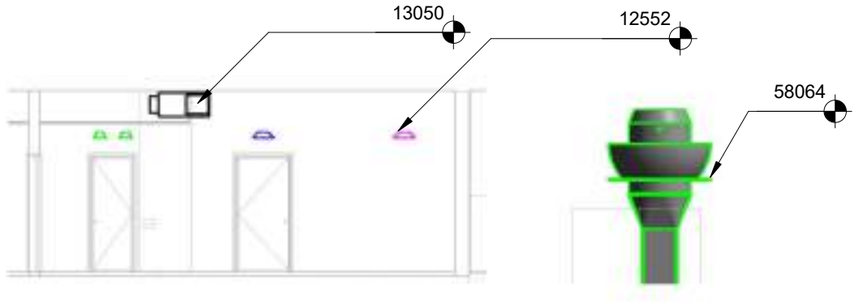
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

049

Scale



Air Terminals, Exhaust Fan and VAV Positions



Spot Elevations

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
	Absorption Chiller
	Cooling Tower
	Centrifugal Pump
	Exhaust Centrifugal Fan
	VAV Unit
	Supply Diffuser
	Return Diffuser
	Exhaust Diffuser
	Control Damper
	Balancing Damper

No.	Description	Date

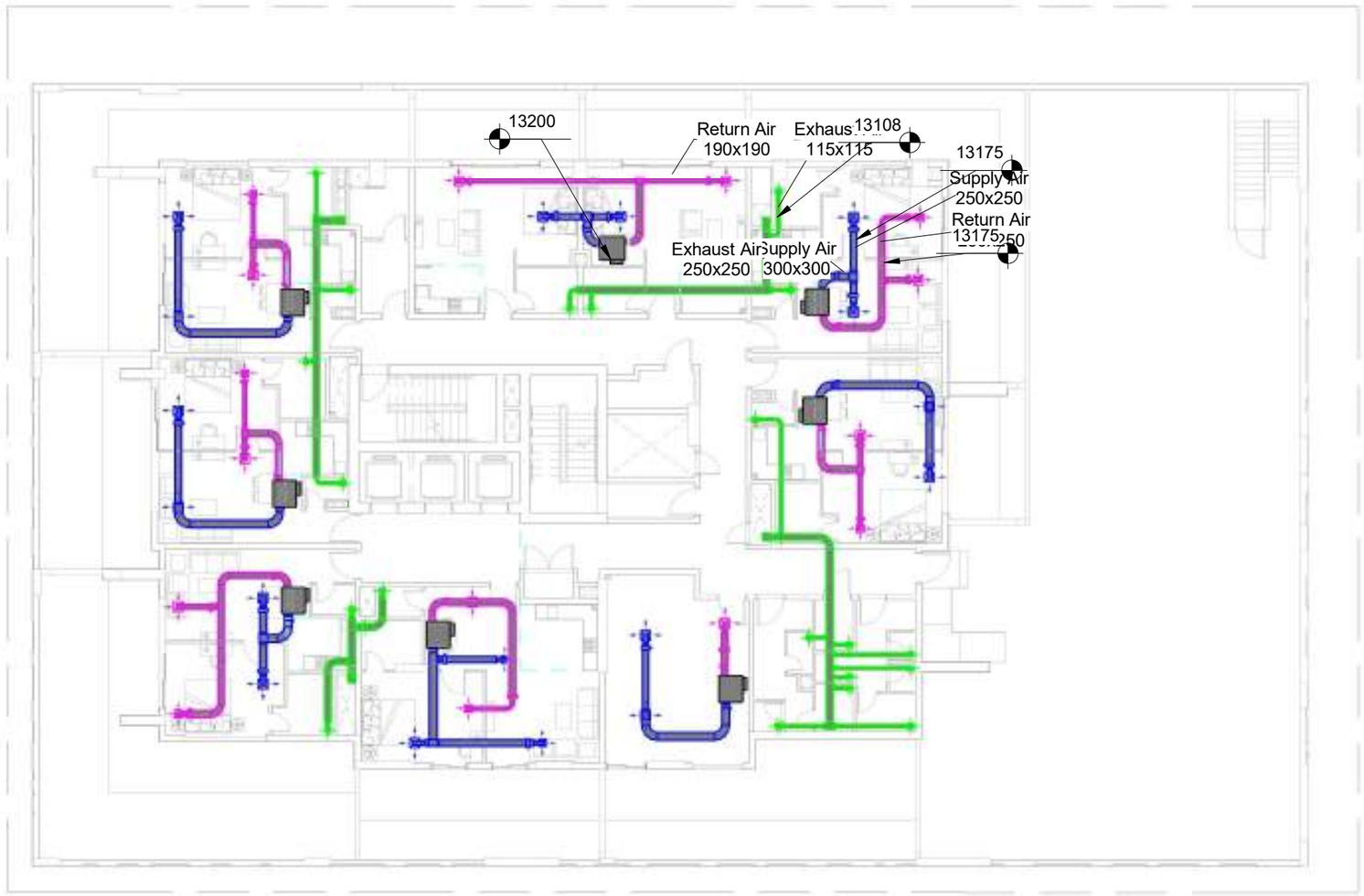
UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

050

Scale As indicated



Floor 101-113 Duct layout

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
	Absorption Chiller
	Cooling Tower
	Centrifugal Pump
	Exhaust Centrifugal Fan
	VAV Unit
	Supply Diffuser
	Return Diffuser
	Exhaust Diffuser
	Control Damper
	Balancing Damper

No.	Description	Date

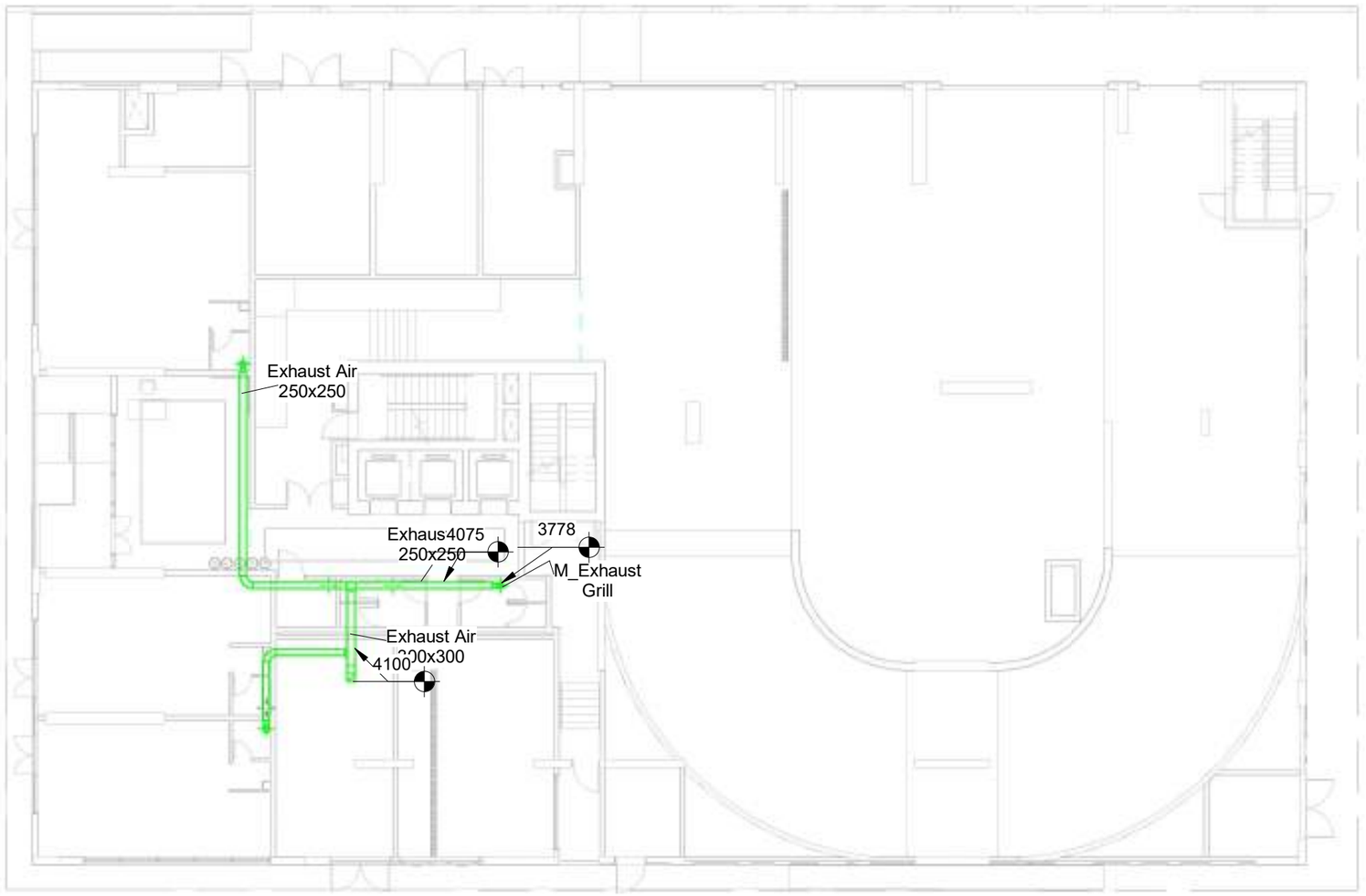
UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

051

Scale As indicated



Ground Floor- Air Terminals Positions and Duct Layout

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
	Absorption Chiller
	Cooling Tower
	Centrifugal Pump
	Exhaust Centrifugal Fan
	VAV Unit
	Supply Diffuser
	Return Diffuser
	Exhaust Diffuser
	Control Damper
	Balancing Damper

No.	Description	Date

UAE Based Project

HVAC

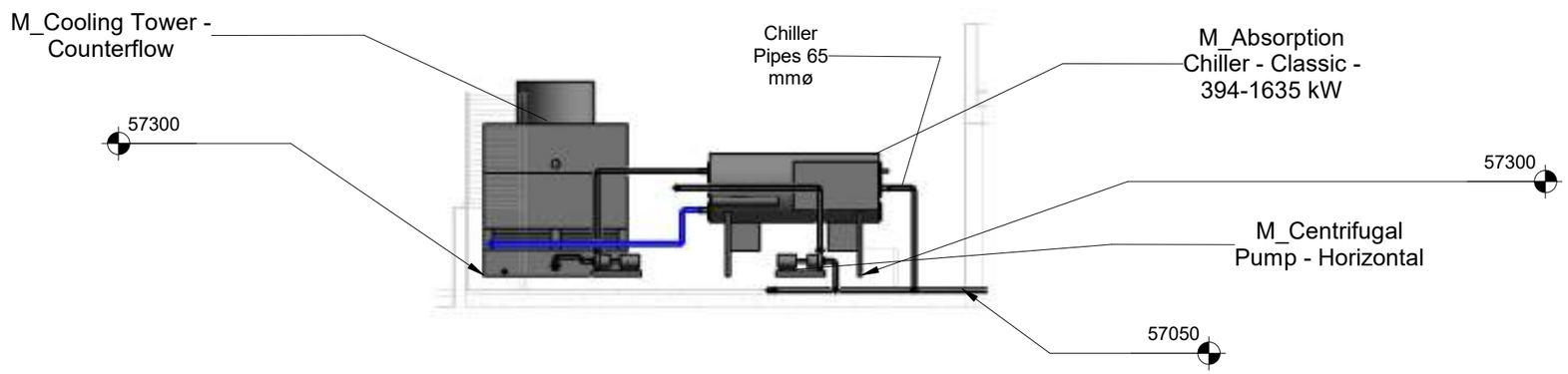
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

052

Scale As indicated



Floor 101-113 Chiller, Cooling Tower connection



Chiller and Cooling Tower Spot Elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
	Absorption Chiller
	Cooling Tower
	Centrifugal Pump
	Exhaust Centrifugal Fan
	VAV Unit
	Supply Diffuser
	Return Diffuser
	Exhaust Diffuser
	Control Damper
	Balancing Damper

No.	Description	Date

UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

053

Scale As indicated

Duct Schedule			
System Classification	Size	Reference Level	Count
Exhaust Air	115x115	101(+10.050)	40
Exhaust Air	115x115	100(+0.300M)	5
Exhaust Air	115x150	100(+0.300M)	1
Return Air	150x150	101(+10.050)	15
Supply Air	150x150	101(+10.050)	2
Return Air	190x190	101(+10.050)	23
Supply Air	190x190	101(+10.050)	19
Exhaust Air	250x250	101(+10.050)	12
Return Air	250x250	101(+10.050)	30
Supply Air	250x250	101(+10.050)	24
Exhaust Air	250x250	100(+0.300M)	5
Supply Air	250x300	101(+10.050)	1
Exhaust Air	300x300	101(+10.050)	6
Supply Air	300x300	101(+10.050)	27

Duct Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

054

Scale

Air Terminal Schedule				
Family	Size	Flow	Level	Count
M_Exhaust Grill	115x115	235.0 L/s	101(+10.050)	22
M_Exhaust Grill	115x115	235.0 L/s	100(+0.300M)	6
M_Return Diffuser	150x150	196.0 L/s	101(+10.050)	6
M_Supply Diffuser	150x150	212.0 L/s	101(+10.050)	1
M_Supply Diffuser	150x150	213.0 L/s	101(+10.050)	1
M_Return Diffuser	190x190	340.0 L/s	101(+10.050)	6
M_Return Diffuser	190x190	372.0 L/s	101(+10.050)	2
M_Supply Diffuser	190x190	245.0 L/s	101(+10.050)	6
M_Supply Diffuser	190x190	287.0 L/s	101(+10.050)	2
M_Supply Diffuser	190x190	425.0 L/s	101(+10.050)	5
M_Supply Diffuser	190x190	460.0 L/s	101(+10.050)	1
M_Supply Diffuser	190x190	465.0 L/s	101(+10.050)	2

Air terminal Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

055

Scale

Mechanical Equipment Schedule			
Family	Type	Level	Count
M_Absorption Chiller - Classic - 394-1635 kW	394 kW	114	1
M_Centrifugal Pump - Horizontal	5.4 LPS - 7.3 Meter Head	114	2
M_Cooling Tower - Counterflow	879 kW	114	1
M_Exhaust Centrifugal Fan - Belt Drive - Wall Mounted	599-2855 LPS	114	4
M_VAV Unit - Parallel Fan Powered	AHU 670l/s	101(+10.050)	8

Mechanical Equipment Schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

056

Scale



Chiller



Cooling tower



Exhaust fan



Centrifugal pump



Air terminals



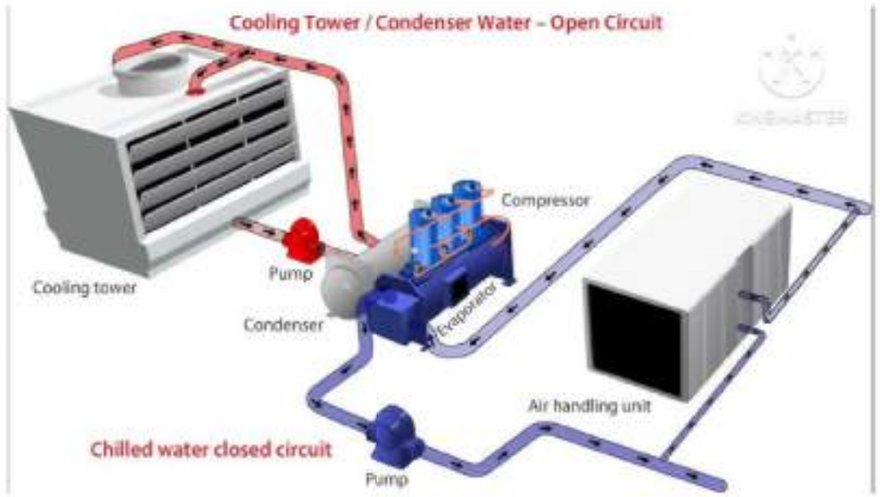
Control Damper



Air handling unit



Balance damper



FAMILY IMAGES

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

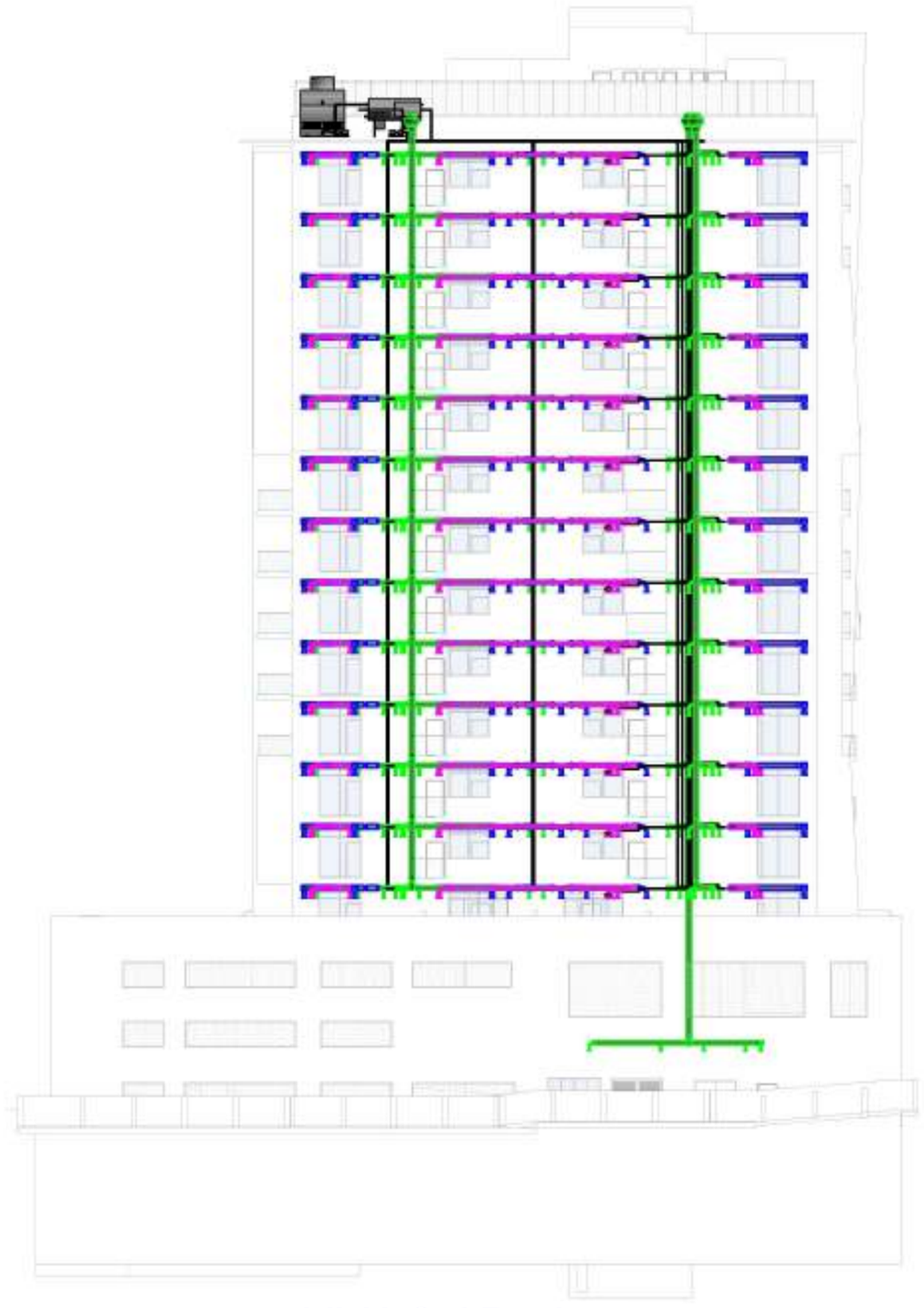
UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

057

Scale



HVAC 3D view

CADD INTERNATIONAL

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No.	Description	Date

UAE Based Project

HVAC

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

058

Scale

FIRE ALARM SYSTEM

FIRE ALARM OVERVIEW

- **Placement of fire alarm devices**
- **Placement of fire alarm panel board**
- **System creation**
- **Fire alarm wiring-2D**
- **Cross checking of conduit connector of each element**
- **Conduit connection of each system**
- **Parallel conduit connection**
- **Placement of cable tray**
- **Scheduling of fire alarm components**





A fire alarm system is designed to detect the presence of a fire and alert building occupants to evacuate or take appropriate action. These systems are essential for fire safety in both residential and commercial buildings, helping prevent injury or loss of life in the event of a fire.

1. **Smoke Detectors:**
   These detect smoke particles in the air. They can use ionization or photoelectric methods to sense the presence of smoke.
2. **Heat Detectors:**
   These activate when they detect a rise in temperature, typically triggered by the heat generated by a fire.
3. **Audible alarms:**
   Loud sounds to alert people to evacuate
   i. **Sirens**
   ii. **Bells**
   iii. **Horns**



(1)



(2)



(i)



(ii)

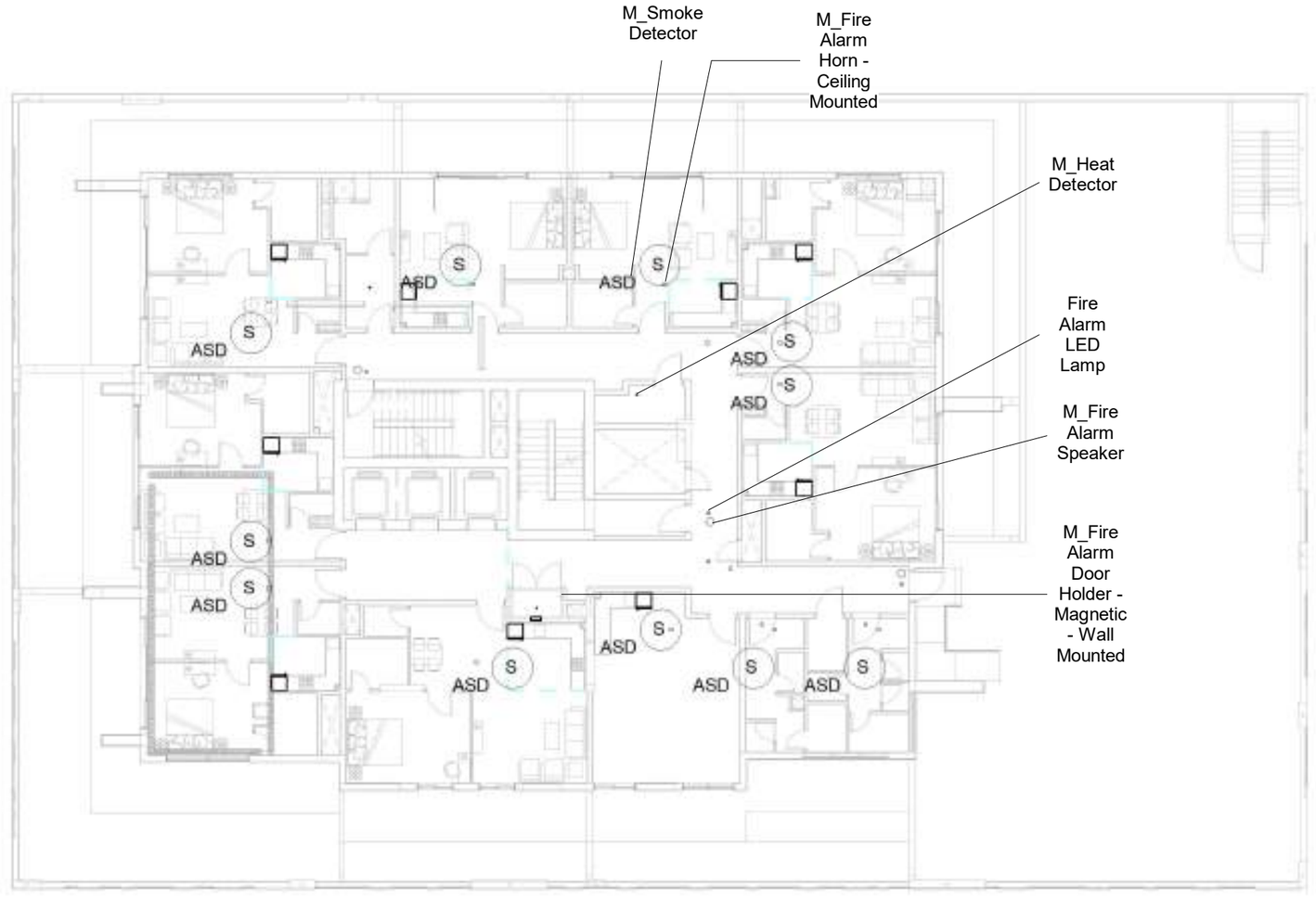


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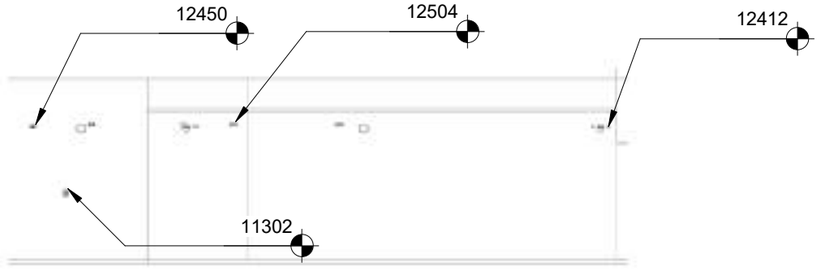
CONTROL PANEL:

Fire alarm sirens Fire alarm speaker The control pa is the "brain" of the fire alarm system. It receives input from the detection devices and processes the data. If an alarm is triggered, it activates the alarm notification devices (siren, strobe light). The control panel also monitors the health of the system and provides status updates, such as whether the system is in good working order.





Floor level (101-113) Fire alarm element positions



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S / ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
·	Fire Alarm LED
S	Electric Switch
□	Fire Alarm Panel board

No.	Description	Date

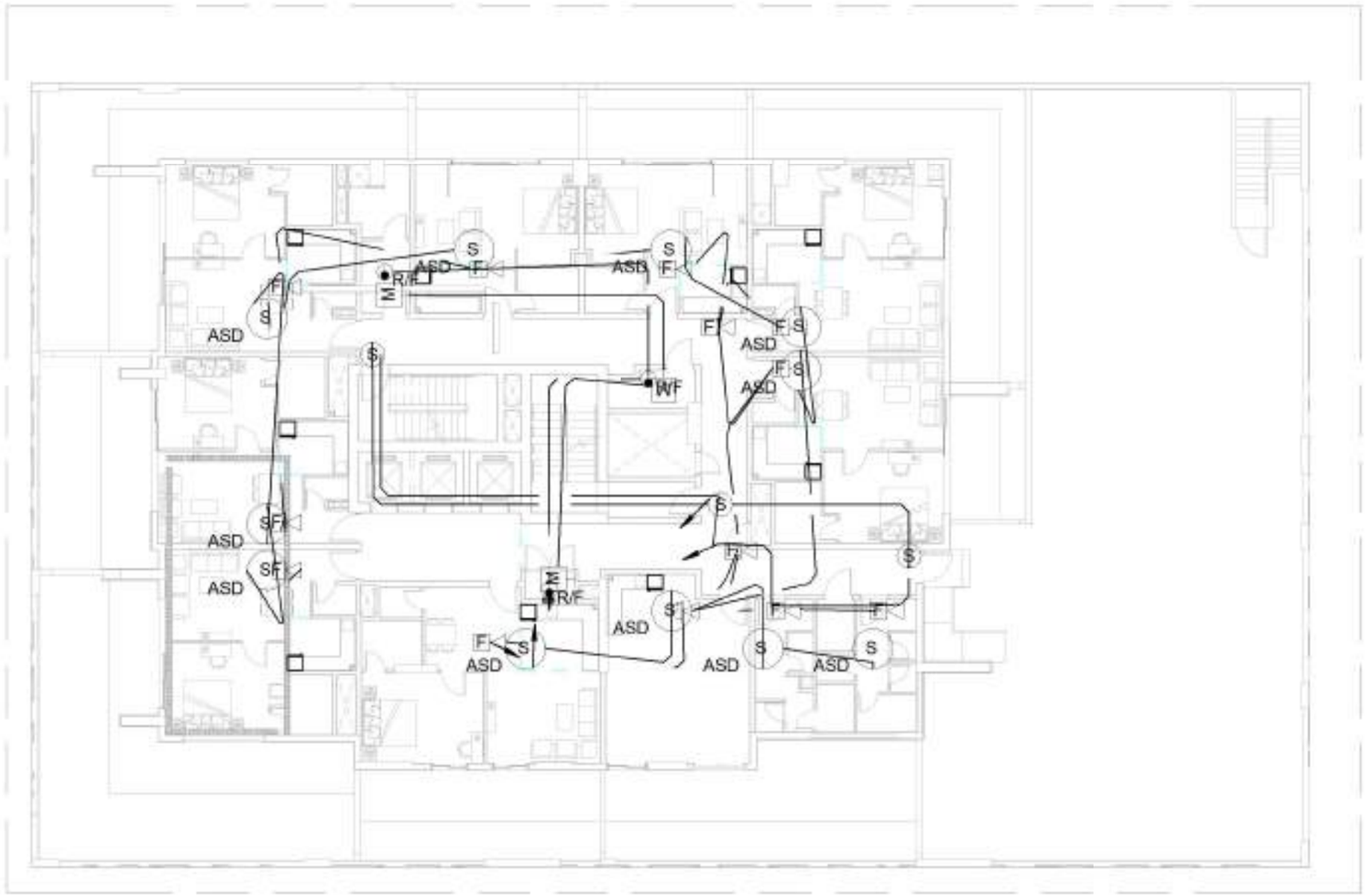
UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

059

Scale: As indicated



Floor Level (101-113) Fire alarm wiring

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
·	Fire Alarm LED
S	Electric Switch
□	Fire Alarm Panel board

No.	Description	Date

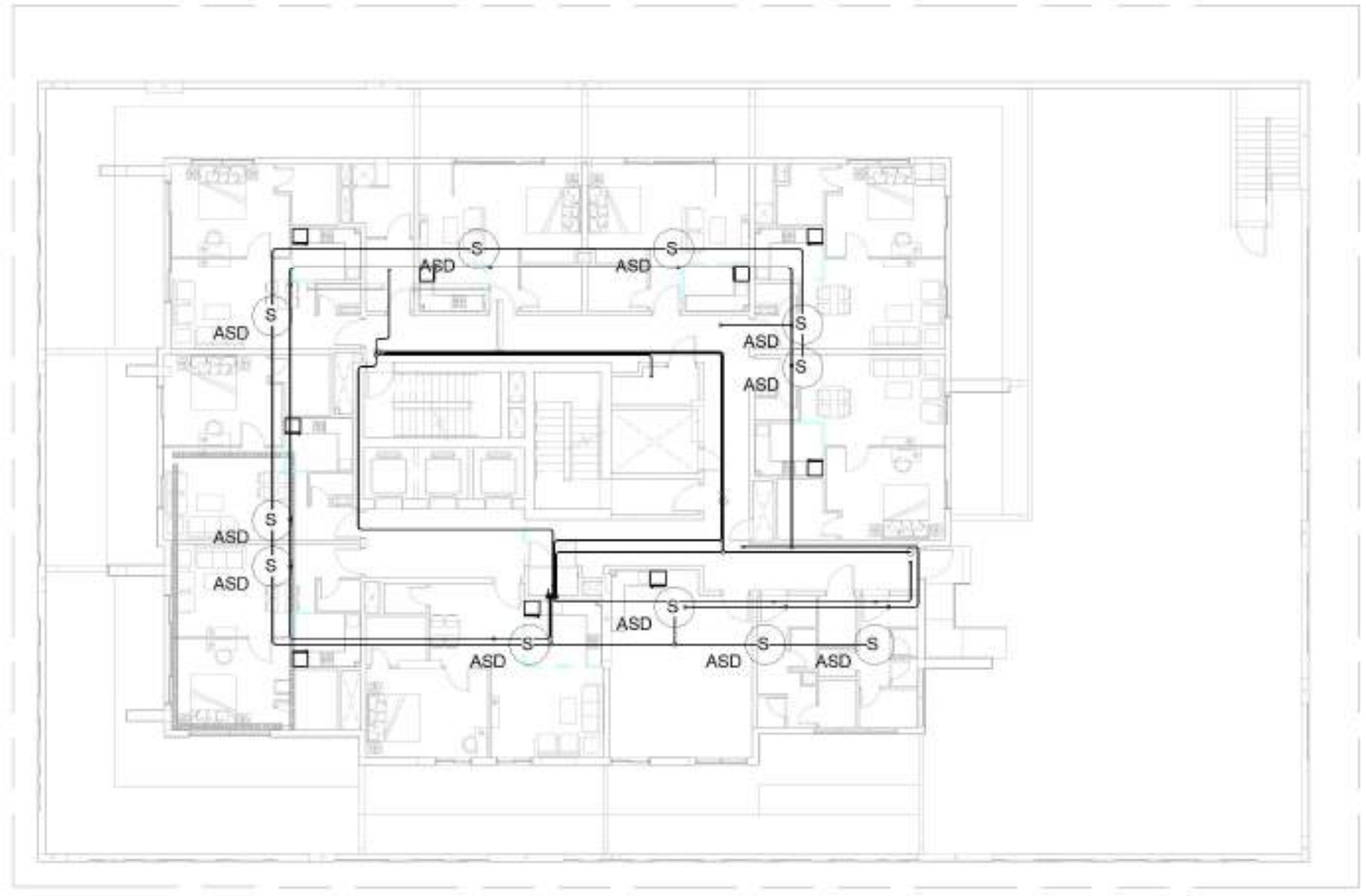
UAE Based Project

Fire Fighting

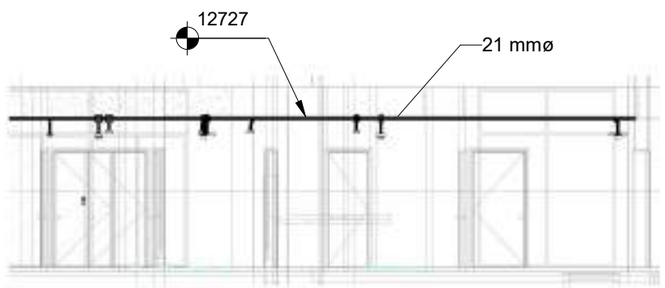
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

060

Scale: As indicated



Floor Level (101-113) Fire alarm conduit



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S / ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
·	Fire Alarm LED
S	Electric Switch
□	Fire Alarm Panel board

No.	Description	Date

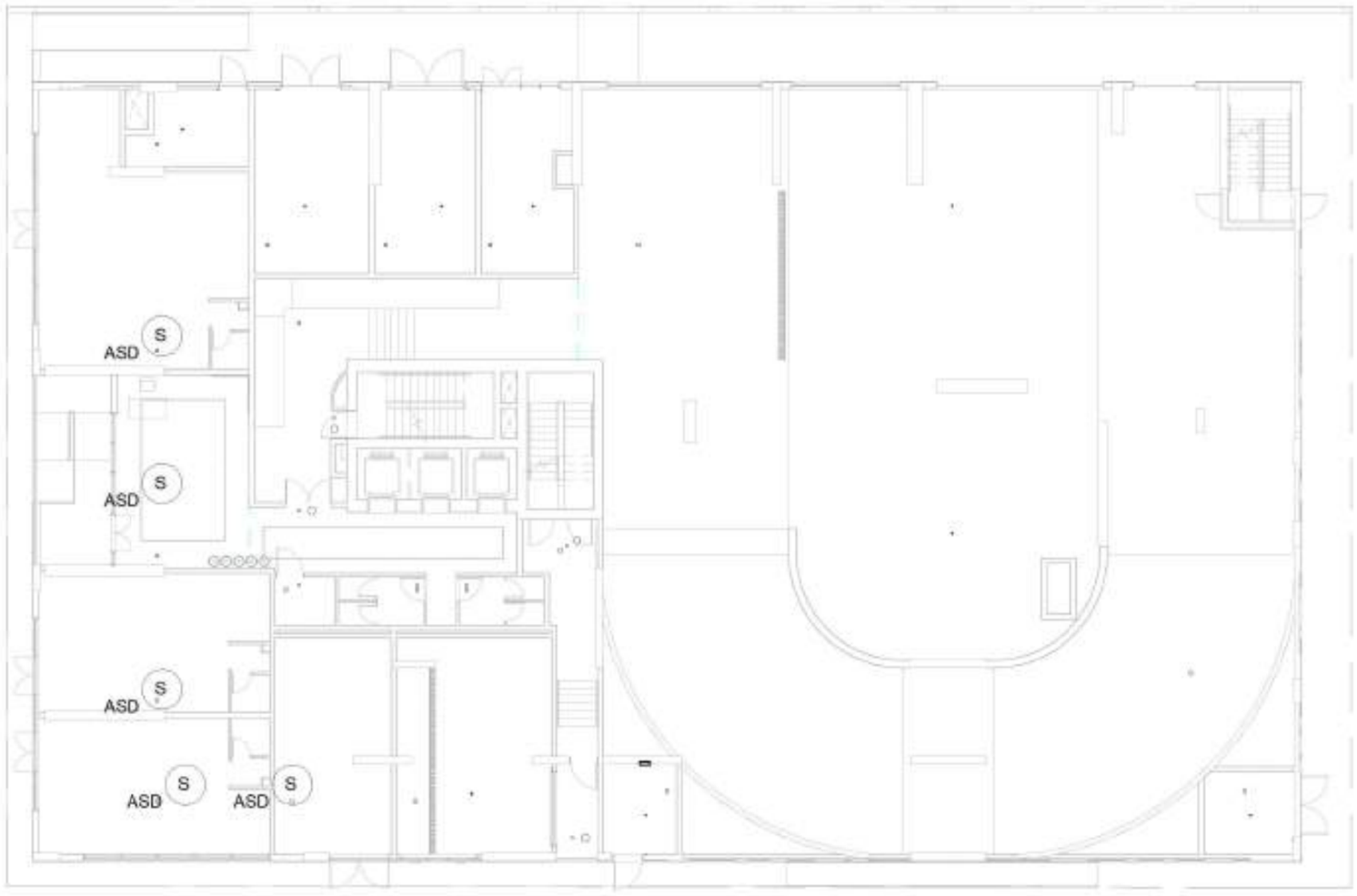
UAE Based Project

Fire Fighting

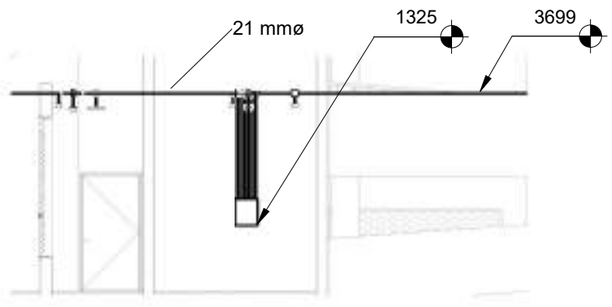
Project number	01
Date	01 June 2025
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Checked by	Helni

061

Scale As indicated



Ground level Fire alarm components position



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
-	Fire Alarm LED
S	Electric Switch
	Fire Alarm Panel board

No.	Description	Date

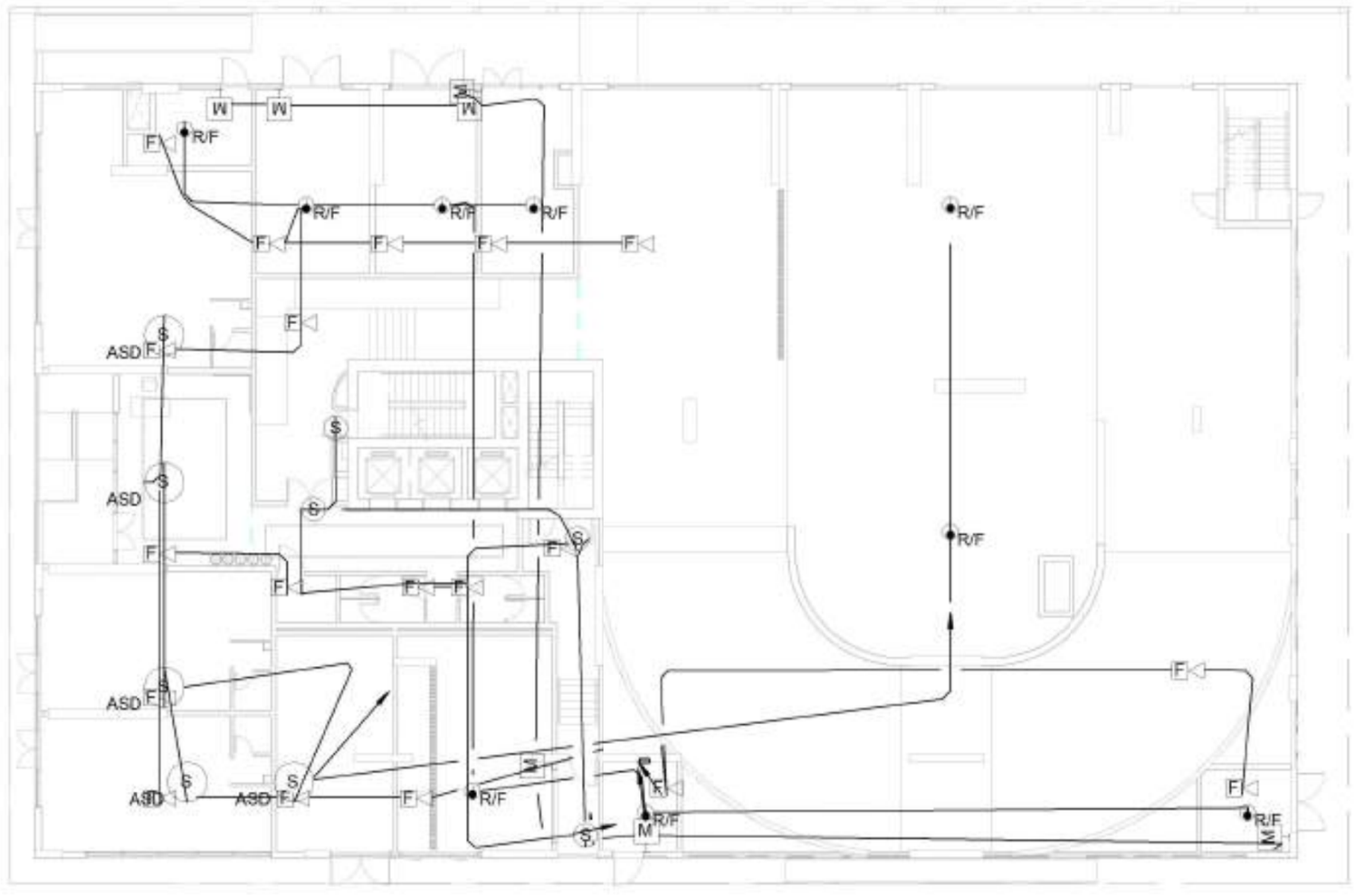
UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

062

Scale As indicated



Ground level Fire alarm wiring

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
W	Magnetic Door Holder
-	Fire Alarm LED
S	Electric Switch
□	Fire Alarm Panel board

No.	Description	Date

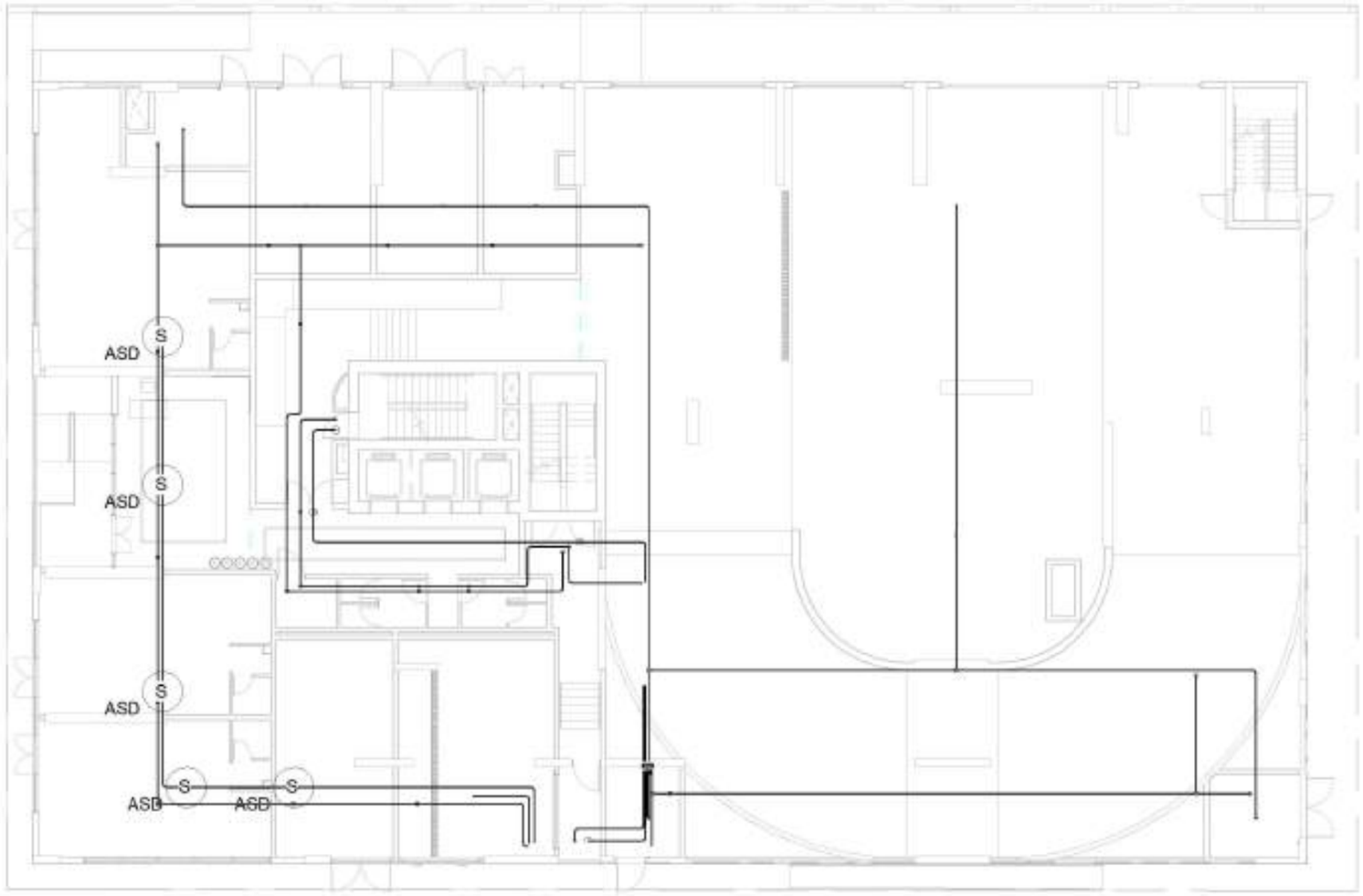
UAE Based Project

Fire Fighting

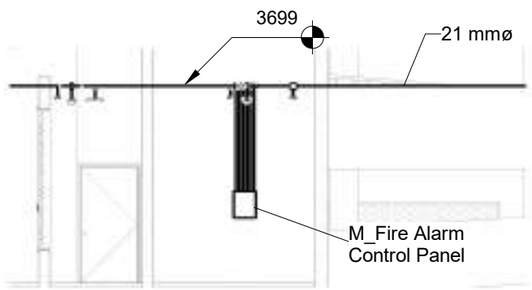
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

063

Scale: As indicated



Ground level Fire alarm conduit



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
	Fire Alarm LED
S	Electric Switch
	Fire Alarm Panel board

No.	Description	Date

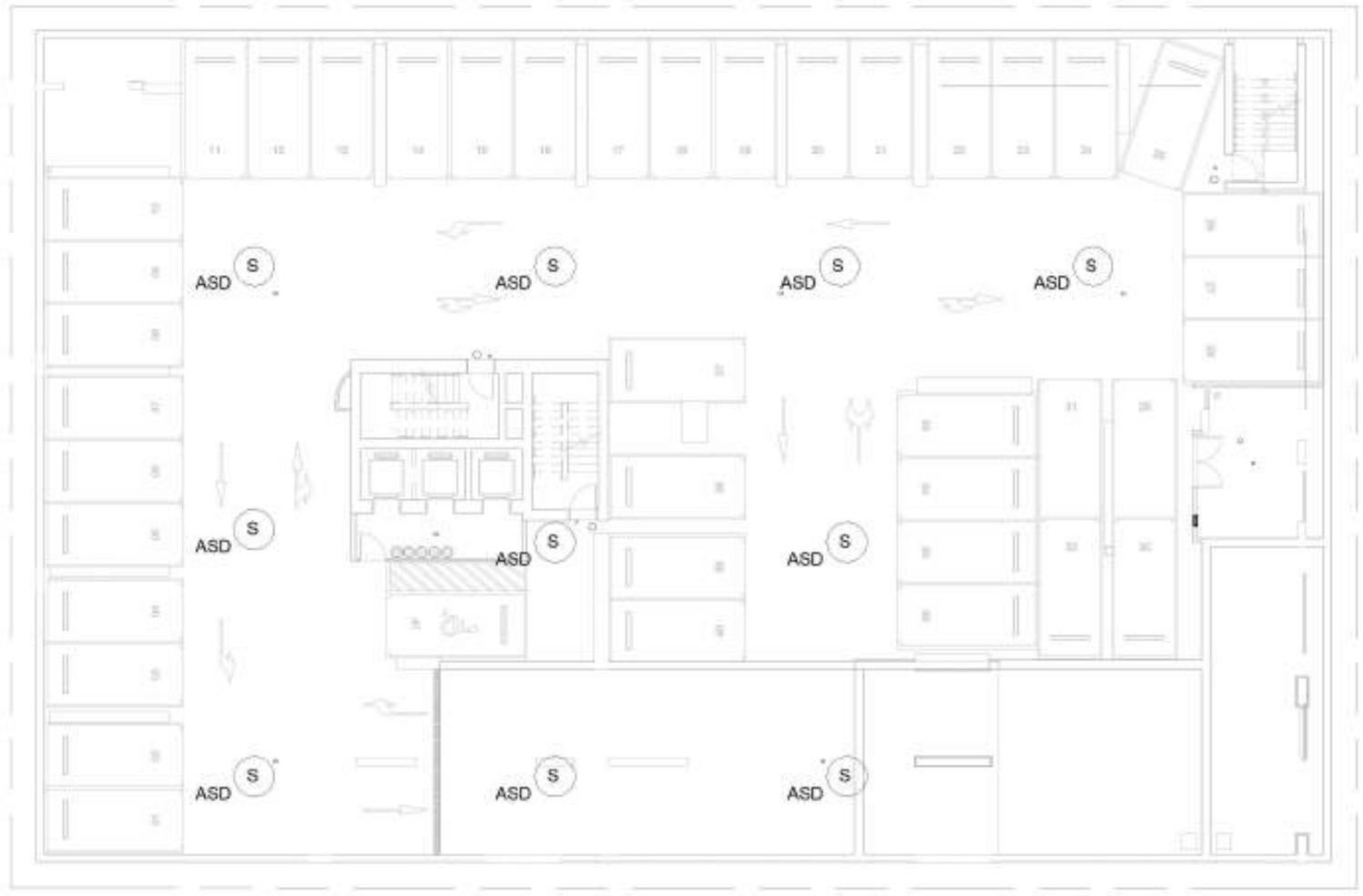
UAE Based Project

Fire Fighting

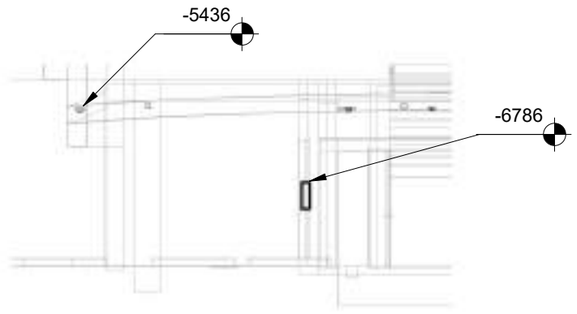
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

064

Scale As indicated



Basement level Fire alarm components position



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S / ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
	Fire Alarm LED
S	Electric Switch
	Fire Alarm Panel board

No.	Description	Date

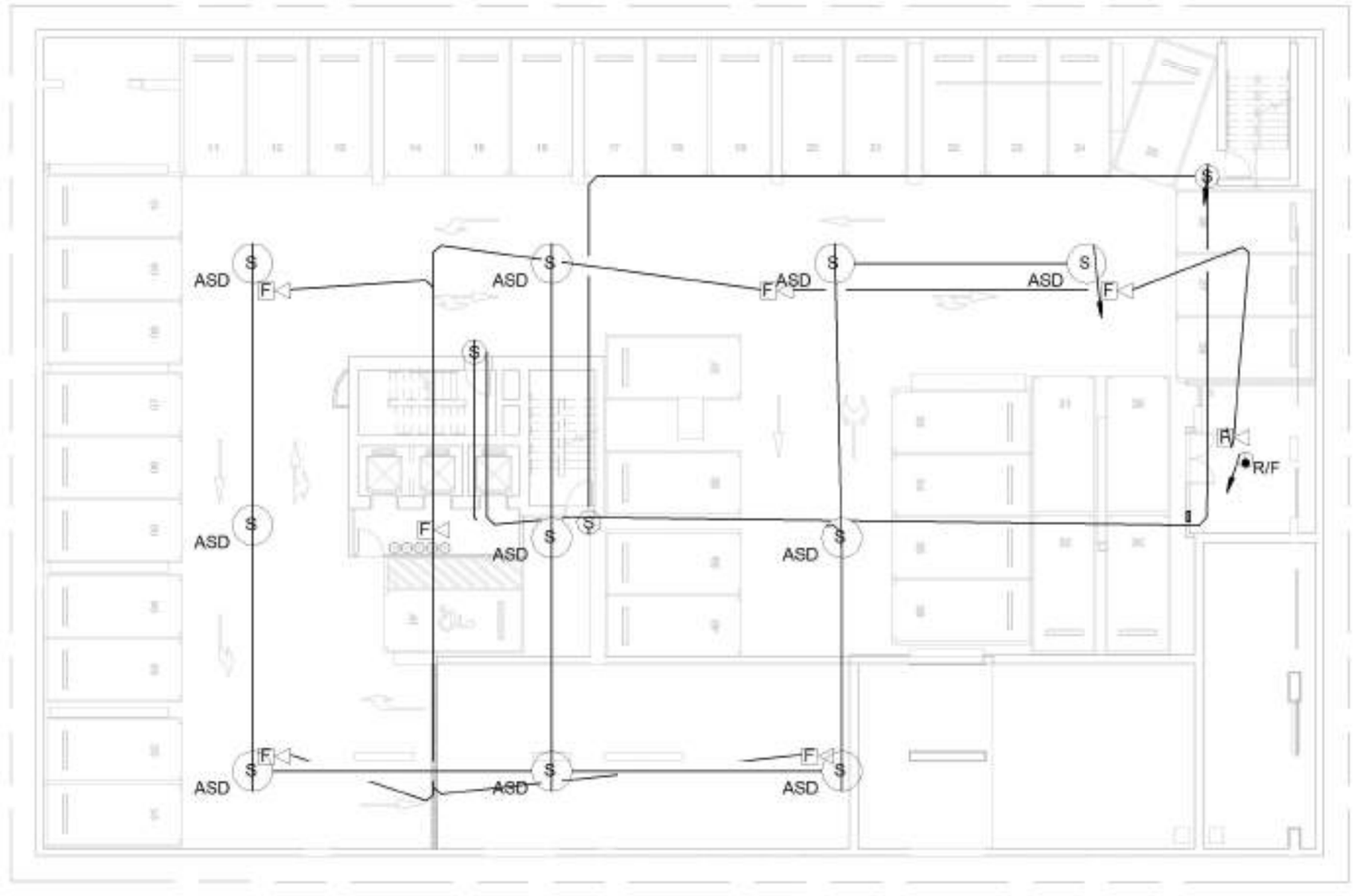
UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

065

Scale As indicated



Basement level Fire alarm wiring

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
W	Magnetic Door Holder
	Fire Alarm LED
S	Electric Switch
	Fire Alarm Panel board

No.	Description	Date

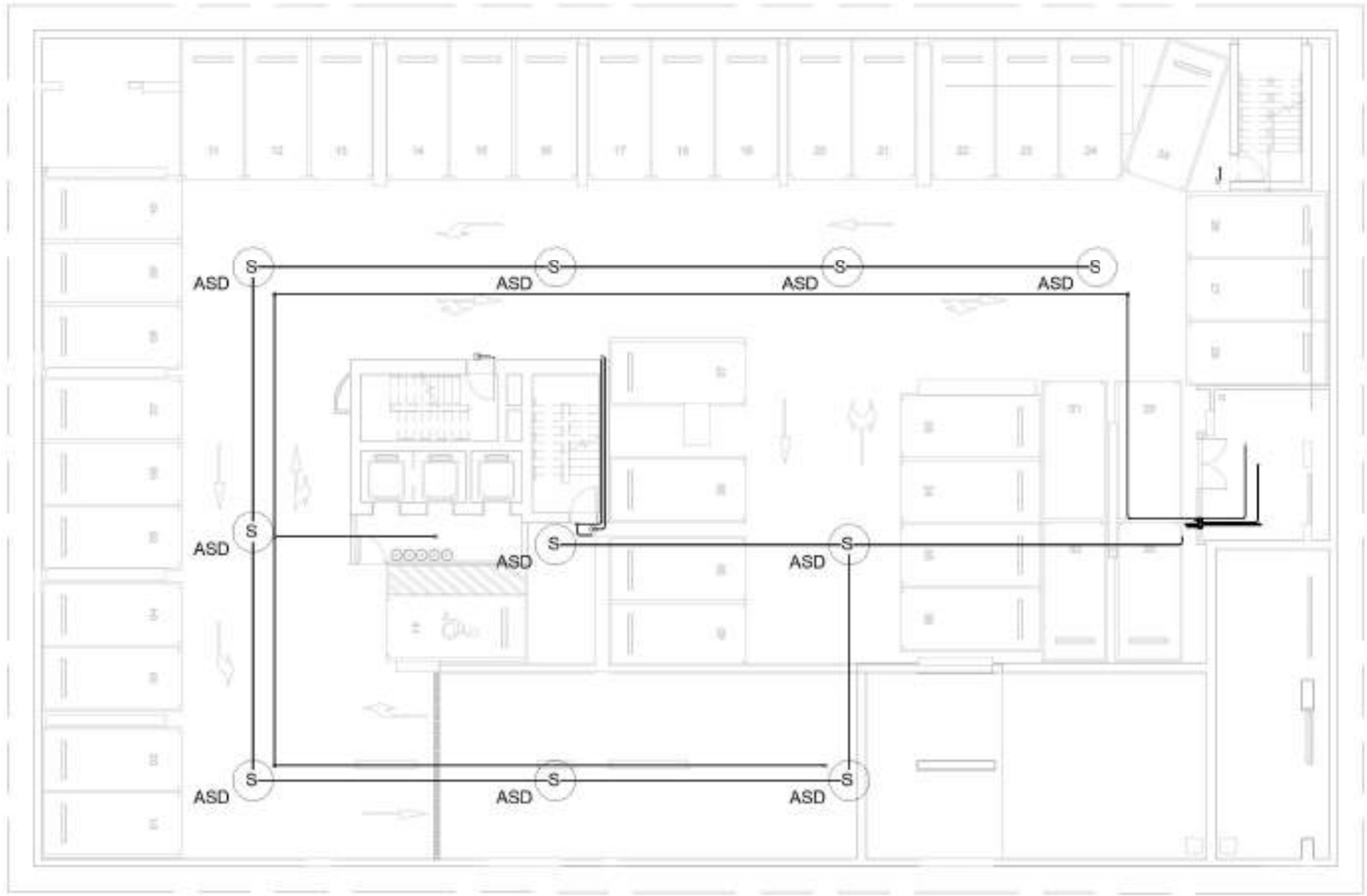
UAE Based Project

Fire Fighting

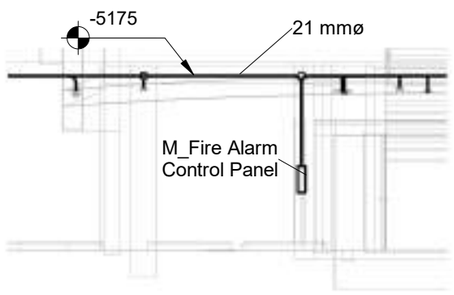
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

066

Scale As indicated



Basement level Fire alarm conduit



Spot elevation

CADD INTERNATIONAL

www.caddintl.com

Symbol	Description
S ASD	Smoke Detector
F	Horn Ceiling Type
R/F	Heat Detector
M	Magnetic Door Holder
-	Fire Alarm LED
S	Electric Switch
	Fire Alarm Panel board

No.	Description	Date

UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

067

Scale As indicated

Fire Alarm Device Schedule			
Family	Level	Elevation from Level	Count
Fire Alarm LED Lamp	101(+10.050)	2400	6
Fire Alarm LED Lamp	100(+0.300M)	3150	7
Fire Alarm LED Lamp	FP Basement	2850	3
M_Fire Alarm Door Holder - Magnetic - Wall Mounted	101(+10.050)	1200	3
M_Fire Alarm Door Holder - Magnetic - Wall Mounted	100(+0.300M)	1200	7
M_Fire Alarm Horn - Ceiling Mounted	101(+10.050)	2400	13
M_Fire Alarm Horn - Ceiling Mounted	100(+0.300M)	3150	19
M_Fire Alarm Horn - Ceiling Mounted	FP Basement	2850	7
M_Fire Alarm Speaker	101(+10.050)	2400	3
M_Fire Alarm Speaker	100(+0.300M)	3150	4
M_Fire Alarm Speaker	FP Basement	2850	3
M_Heat Detector	101(+10.050)	2400	3
M_Heat Detector	100(+0.300M)	3150	9
M_Heat Detector	FP Basement	2850	1
M_Smoke Detector	101(+10.050)	2400	11
M_Smoke Detector	100(+0.300M)	3150	5
M_Smoke Detector	FP Basement	2850	10

Fire alarm device schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

068

Scale

Data Panel:

Location:

CKT	Circuit Description
1	Fire Alarm Room 53, 58, 60, 86, 64, 65, 54
2	Fire Alarm
3	Fire Alarm Room 15, 36, 28
4	Fire Alarm
5	Fire Alarm
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Notes:

FLoor level (101-113) Fire alarm panel board schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

069

Scale

Data Panel:

Location:

CKT	Circuit Description
1	Fire Alarm Room 104, 118, 108, 115, 116, 102, 121
2	Fire Alarm Room 104, 116
3	Fire Alarm Room 108, 115, 118, 102
4	
5	Fire Alarm Room 121, 117
6	Fire Alarm Room 117, 121
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Notes:

Ground level Fire alarm panel board schedule

CADD INTERNATIONAL

www.caddintl.com

No.	Description	Date

UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

070

Scale

Data Panel:

Location:

CKT	Circuit Description
1	Fire Alarm Room 098-601, 098-504
2	Fire Alarm PARKING 098-601
3	Fire Alarm PUMP ROOM 098-504
4	Fire Alarm PARKING 098-601
5	Fire Alarm PARKING 098-601
6	
7	
8	
9	
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11	
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17	
18	
19	
20	

Notes:

Basement level Fire alarm panel board schedule

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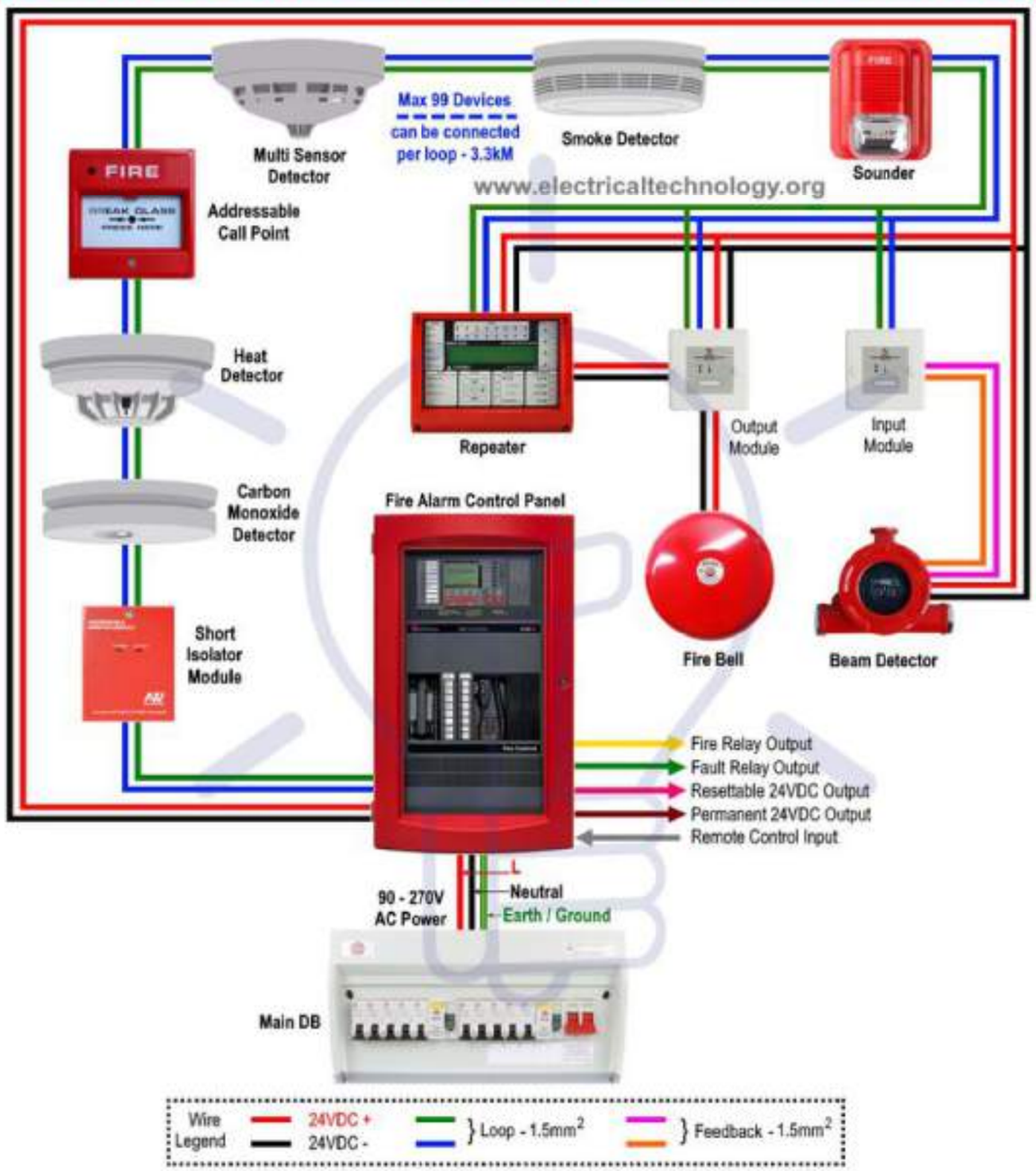
Fire Fighting

Project number	01
Date	01 June 2025
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Checked by	Helni

071

Scale

Addressable Fire Alarm System Wiring



Fire alarm components

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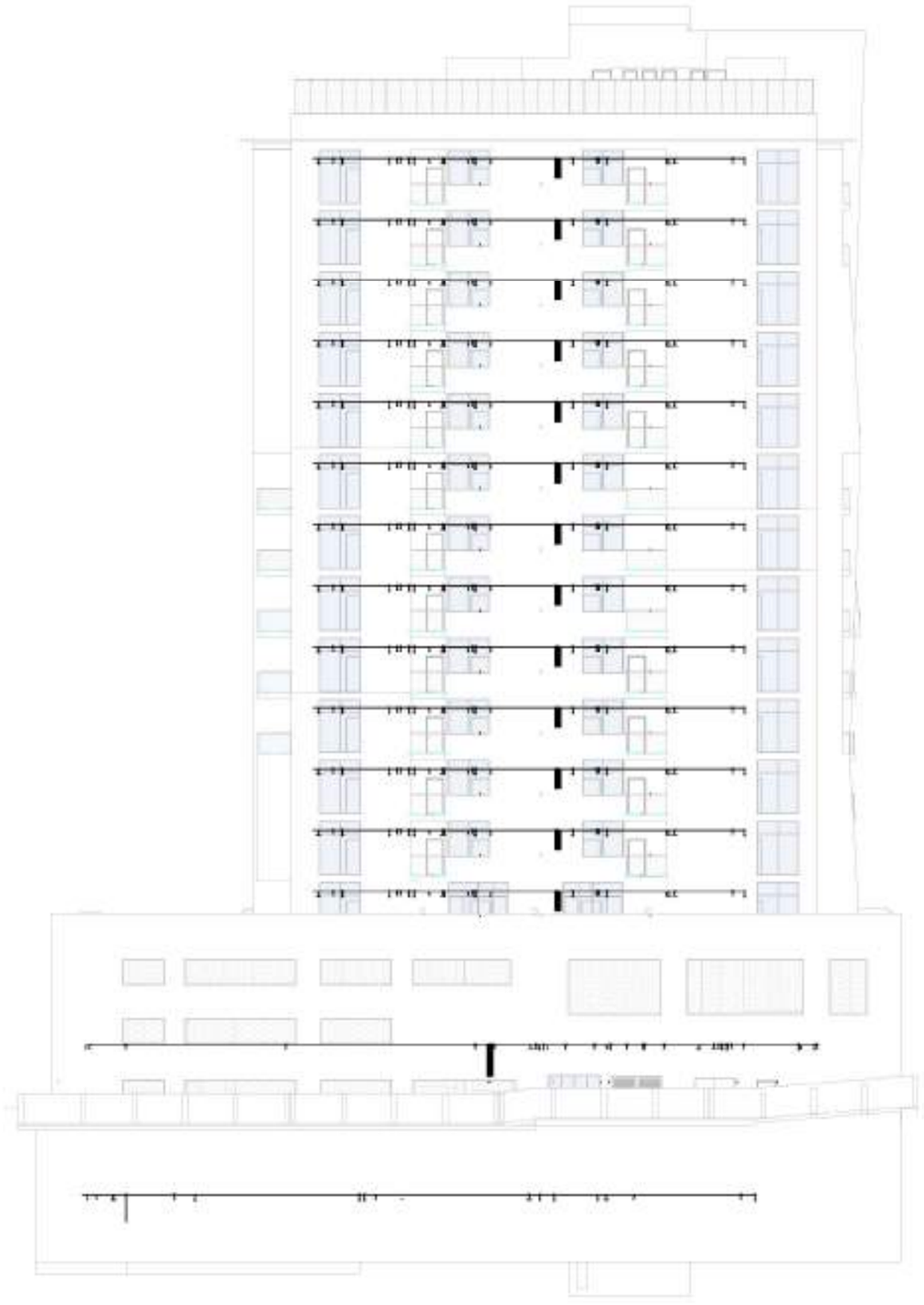
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Fire alarm 3D view

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FIRE SPRINKLER SYSTEM



FIRE SPRINKLER SYSTEM – OVERVIEW

- ***Schedule keys method based on hazard zone***
- ***Schedule building components method to find number of sprinklers***
- ***Placement of fire sprinklers***
- ***Placement of fire sprinkler pump***
- ***Manual piping***
- ***Placement of valves***



A fire sprinkler system is an automatic fire protection system that uses water to extinguish or control fires in buildings. These systems are designed to detect a fire early and suppress it before it spreads, often minimizing property damage and improving occupant safety. Fire sprinkler systems are a critical part of fire safety protocols in both residential and commercial buildings.

Fire Sprinkler Systems Work

Fire sprinkler systems are activated by heat, not smoke. Each sprinkler head has a temperature-sensitive element (a glass bulb or a fusible Ink, which is designed to break or melt when exposed to high temperatures. Once activated, the sprinkler releases water in a specific area. aming to control of suppress the fire. Sprinklers do not go off simultaneously in most systems only the one closest to the fire activates, reducing water wastage and collateral damage

Key Components of a Fire Sprinkler System

1. Sprinkler Heads:

- **The sprinkler heads are the most visible part of the system and are installed in the ceilings of the protected area.**
- **Types of Sprinkler Heads:**
  - **Pendant: Sprays water downward.**
  - **Upright: Sprays water upward (used in specific applications).**
  - **Sidewall: Sprays water horizontally along the wall.**
  - **Concealed: Hidden behind a cover until activated.**
- **Sprinkler beads are designed to release water when the surrounding temperature reaches a certain threshold (typically around 155-165 or 68-74°C).**

2. Piping System: The pipes carry water from the water supply to the sprinkler heads. Piping is often made from steel, copper, or plastic, depending on the type of system. There are two main types of sprinkler systems based on the pipe configuration: wet systems (water is always in the pipes) and dry systems (pipes are filled with pressurized air or nitrogen until activated).
3. Water Supply: Sprinkler systems are typically connected to the building's water supply or an independent water tank. The water supply must be reliable, capable of providing the necessary volume and pressure to operate the system effectively.
4. Control Valve It is important for maintenance stall to ensure that the valve in accessible and remains in an open position to allow water flow in case of fire, The control valve regulates the flow of water to the sprinkler system. It can be manually or automatically controlled.
5. Alarm and Monitoring System: Modern systems often include alarmad monitoring sys to alert building occupants and emergency services when fire 15 detected and a sprinkler is activated. This can include audible alarms and direct notifications to fire departments,









ACES Space Schedule					
Name	Area	ACES Area	Area wrt Level of Hazard	No of Sprinklers	Level
TERRACE	18 m²	low	16 m²	1	101(+10.050)
BED ROOM	16 m²	Medium	8 m²	2	101(+10.050)
BED ROOM	16 m²	Medium	8 m²	2	101(+10.050)
W.M.	5 m²	High	4 m²	1	101(+10.050)
BED ROOM	16 m²	Medium	8 m²	2	101(+10.050)
TERRACE	33 m²	low	16 m²	2	101(+10.050)
TERRACE	51 m²	low	16 m²	3	101(+10.050)
TELE. ROOM	2 m²	High	4 m²	1	101(+10.050)
STAIR LOBBY	5 m²	low	16 m²	0	101(+10.050)
ELE. ROOM	5 m²	High	4 m²	1	101(+10.050)
TERRACE	74 m²	low	16 m²	5	101(+10.050)
GYM	39 m²	High	4 m²	10	101(+10.050)
TERRACE	17 m²	low	16 m²	1	101(+10.050)
KITCHEN	6 m²	High	4 m²	1	101(+10.050)
LIVING ROOM	22 m²	Medium	8 m²	3	101(+10.050)
LIVING ROOM	22 m²	Medium	8 m²	3	101(+10.050)
KITCHEN	6 m²	High	4 m²	1	101(+10.050)
KITCHEN	8 m²	High	4 m²	2	101(+10.050)
LIVING ROOM	28 m²	Medium	8 m²	4	101(+10.050)
LIVING ROOM	22 m²	Medium	8 m²	3	101(+10.050)

ACES Space Schedule					
Name	Area	ACES Area	Area wrt Level of Hazard	No of Sprinklers	Level
KITCHEN	6 m²	High	4 m²	1	101(+10.050)
LIVING ROOM	22 m²	Medium	8 m²	3	101(+10.050)
KITCHEN	6 m²	High	4 m²	1	101(+10.050)
KITCHEN	5 m²	High	4 m²	1	101(+10.050)
KITCHEN	5 m²	High	4 m²	1	101(+10.050)
STUDIO-02	27 m²	Medium	8 m²	3	101(+10.050)
LIVING ROOM	22 m²	Medium	8 m²	3	101(+10.050)
KITCHEN	6 m²	High	4 m²	1	101(+10.050)
CORRIDOR	69 m²	low	16 m²	4	101(+10.050)
LIFT LOBBY	17 m²	low	16 m²	1	101(+10.050)
TERRACE	15 m²	low	16 m²	1	101(+10.050)
TERRACE	37 m²	low	16 m²	2	101(+10.050)
TERRACE	87 m²	low	16 m²	5	101(+10.050)
TERRACE	55 m²	low	16 m²	3	101(+10.050)
BED ROOM	15 m²	Medium	8 m²	2	101(+10.050)
GARBAGE ROOM	5 m²	High	4 m²	1	101(+10.050)
BED ROOM	17 m²	Medium	8 m²	2	101(+10.050)
TERRACE	362 m²	low	16 m²	23	101(+10.050)
STUDIO-01	27 m²	Medium	8 m²	3	101(+10.050)
BED ROOM	16 m²	Medium	8 m²	2	101(+10.050)

No of sprinklers for each space schedule

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No.	Description	Date

UAE Based Project

Fire Fighting

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

074

Scale

ACES Space Schedule					
Name	Area	ACES Area	Area wrt Level of Hazard	No of Sprinklers	Level
MAIN ENTRANCE	22 m²	low	16 m²	1	100(+0.300 M)
TELE. ROOM	10 m²	High	4 m²	3	100(+0.300 M)
LV ROOM	39 m²	Medium	8 m²	5	100(+0.300 M)
R.M.U ROOM	11 m²	High	4 m²	3	100(+0.300 M)
B.M.S ROOM	13 m²	High	4 m²	3	100(+0.300 M)
GARBAGE ROOM	33 m²	High	4 m²	8	100(+0.300 M)
LIFT LOBBY	26 m²	low	16 m²	2	100(+0.300 M)
RECEPTION	40 m²	Medium	8 m²	5	100(+0.300 M)
RETAIL-01	74 m²	Medium	8 m²	9	100(+0.300 M)
RETAIL-02	49 m²	Medium	8 m²	6	100(+0.300 M)
MANAGEMENT ROOM	26 m²	High	4 m²	6	100(+0.300 M)
GENERATOR ROOM	28 m²	High	4 m²	7	100(+0.300 M)
PARKING	772 m²	low	16 m²	48	100(+0.300 M)
FIRE EXIT. CORRIDOR	24 m²	low	16 m²	2	100(+0.300 M)
SUBSTATION ROOM	51 m²	High	4 m²	13	100(+0.300 M)
RETAIL-03	49 m²	Medium	8 m²	6	100(+0.300 M)
CORRIDOE	59 m²	low	16 m²	4	100(+0.300 M)
PARKING	1293 m²	low	16 m²	81	FP Basement
PUMP ROOM	28 m²	High	4 m²	7	FP Basement
LIFT LOBBY	12 m²	low	16 m²	1	FP Basement

No of sprinklers for each space schedule

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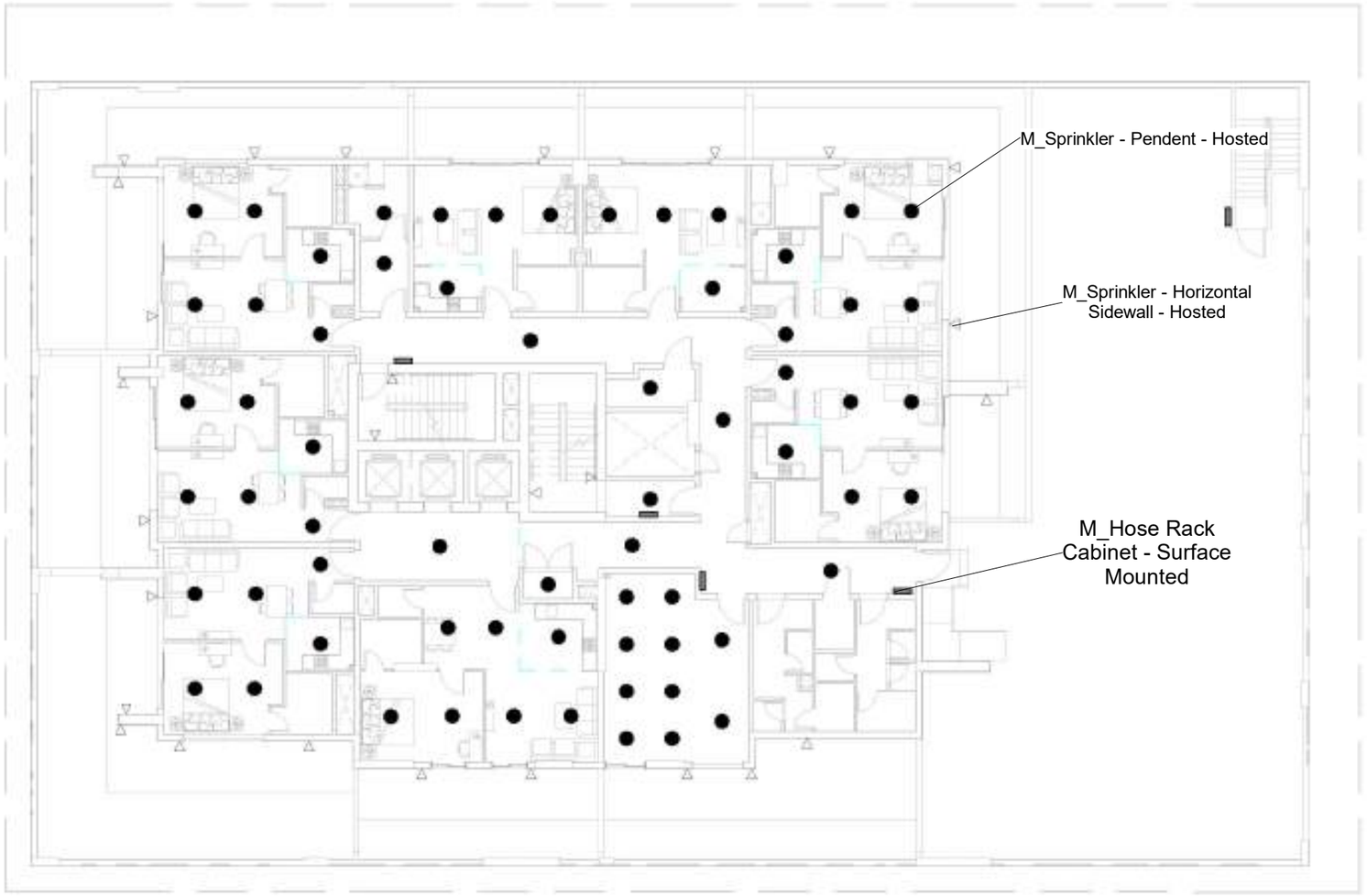
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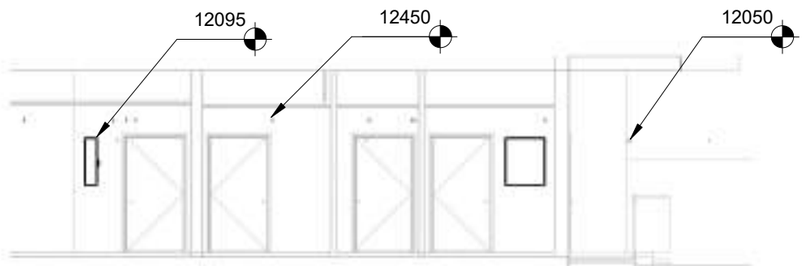
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Scale



Floor level (101-113) Fire sprinkler components positions



Spot elevation

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Symbol	Description
●	Sprinkler pendent
▷	Sprinkler sidewall
▪	Gate valve
▭	Hose rack cabinet
	Diesel pump
	Electrical pump
	Jockey pump

No.	Description	Date

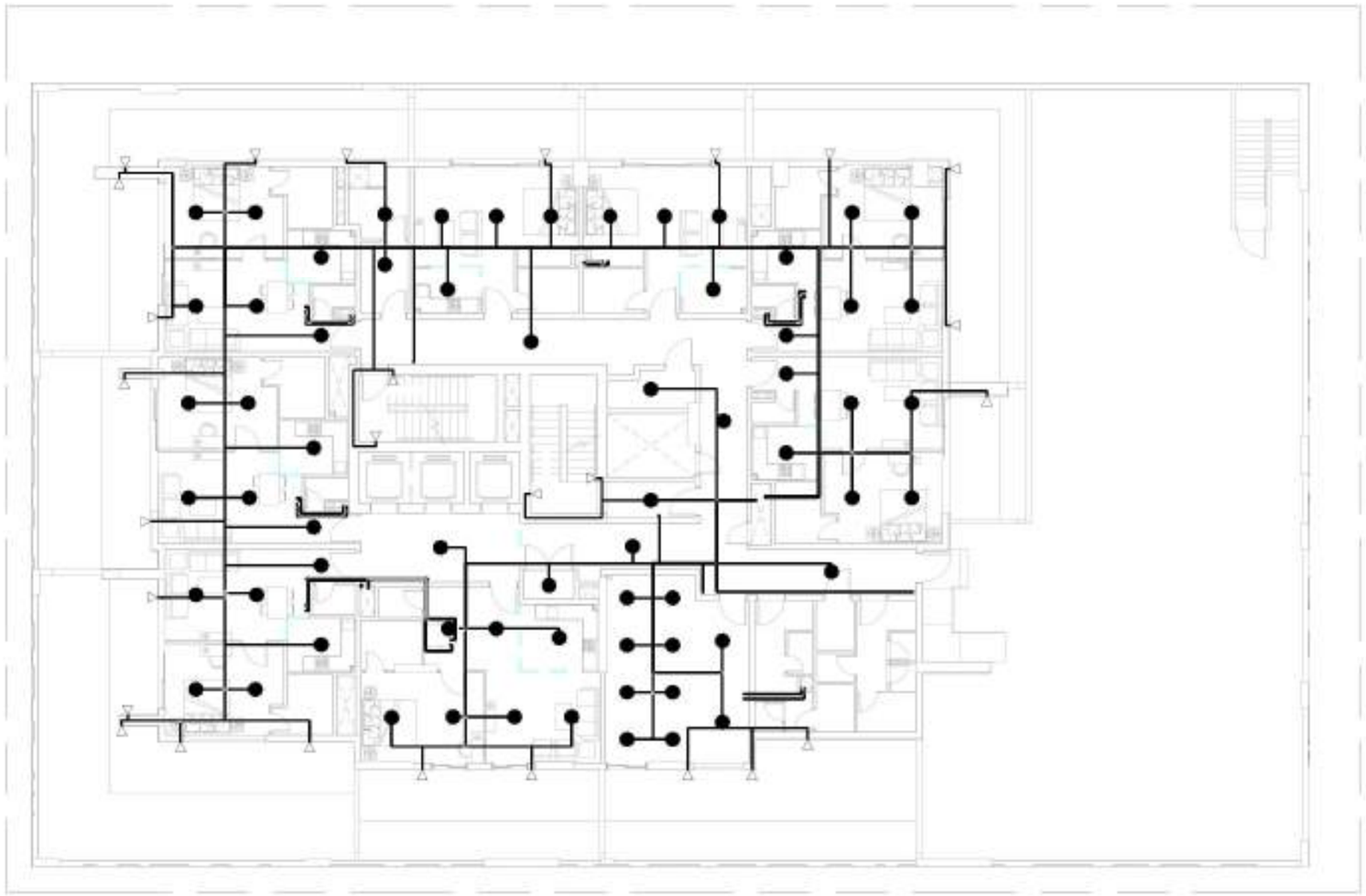
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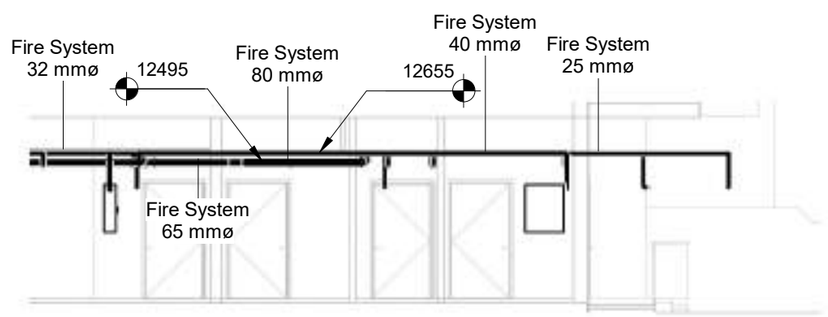
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Scale As indicated



Floor level (101-113) Fire sprinkler piping



Spot elevation

CADD INTERNATIONAL

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Symbol	Description
●	Sprinkler pendent
▷	Sprinkler sidewall
▪	Gate valve
▭	Hose rack cabinet
	Diesel pump
	Electrical pump
	Jockey pump

No.	Description	Date

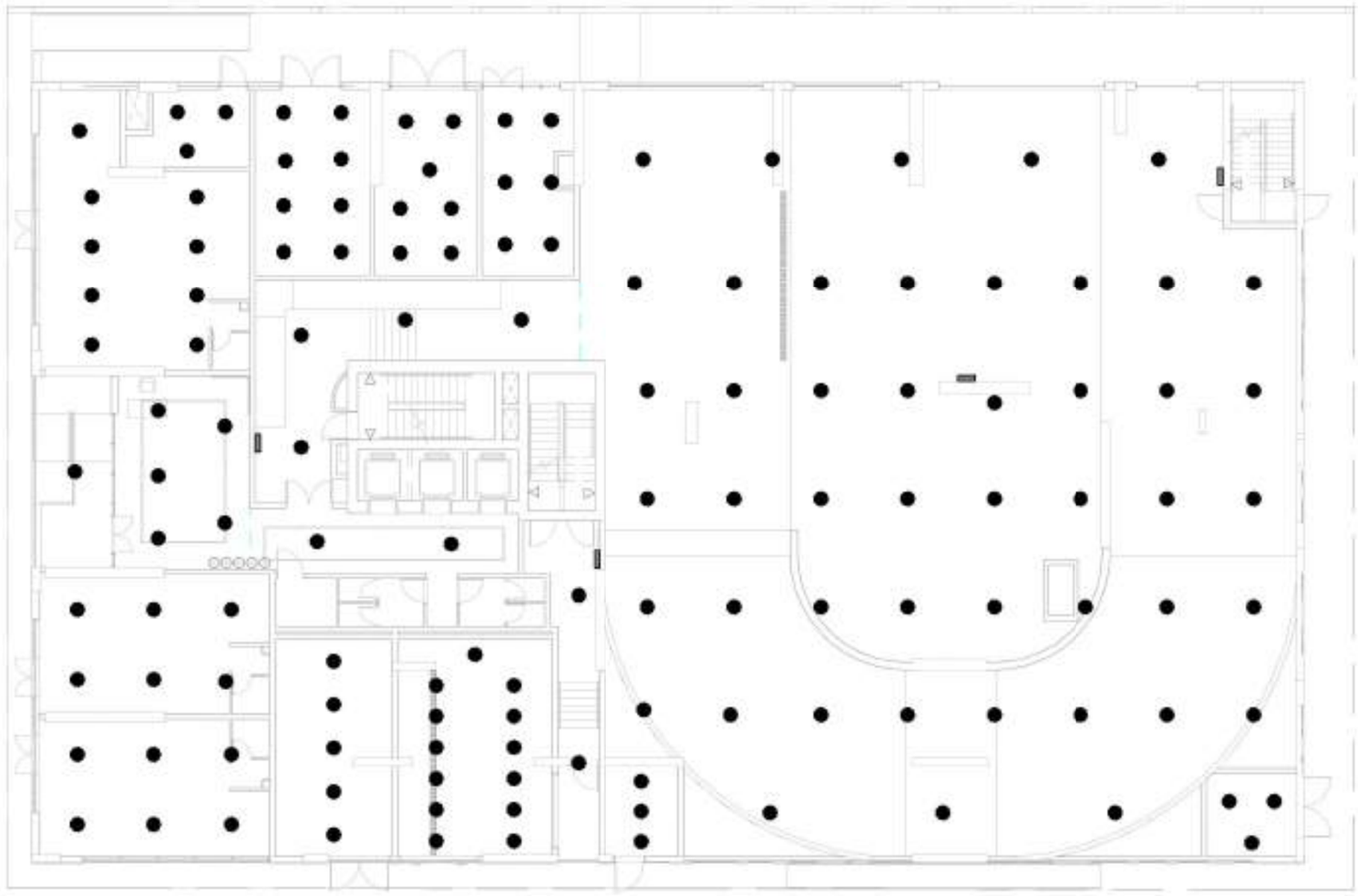
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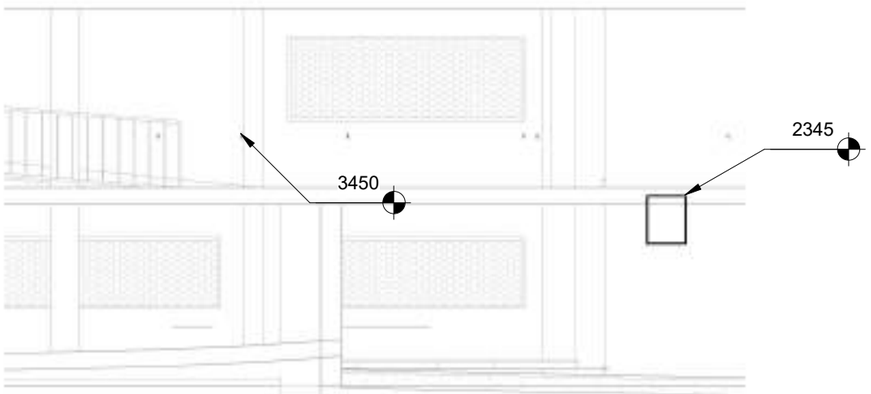
Project number	01
Date	01 June 2025
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Scale As indicated



Ground level Fire sprinkler components positions



Spot elevation

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Symbol	Description
●	Sprinkler pendent
▷	Sprinkler sidewall
⋈	Gate valve
▭	Hose rack cabinet
	Diesel pump
	Electrical pump
	Jockey pump

No.	Description	Date

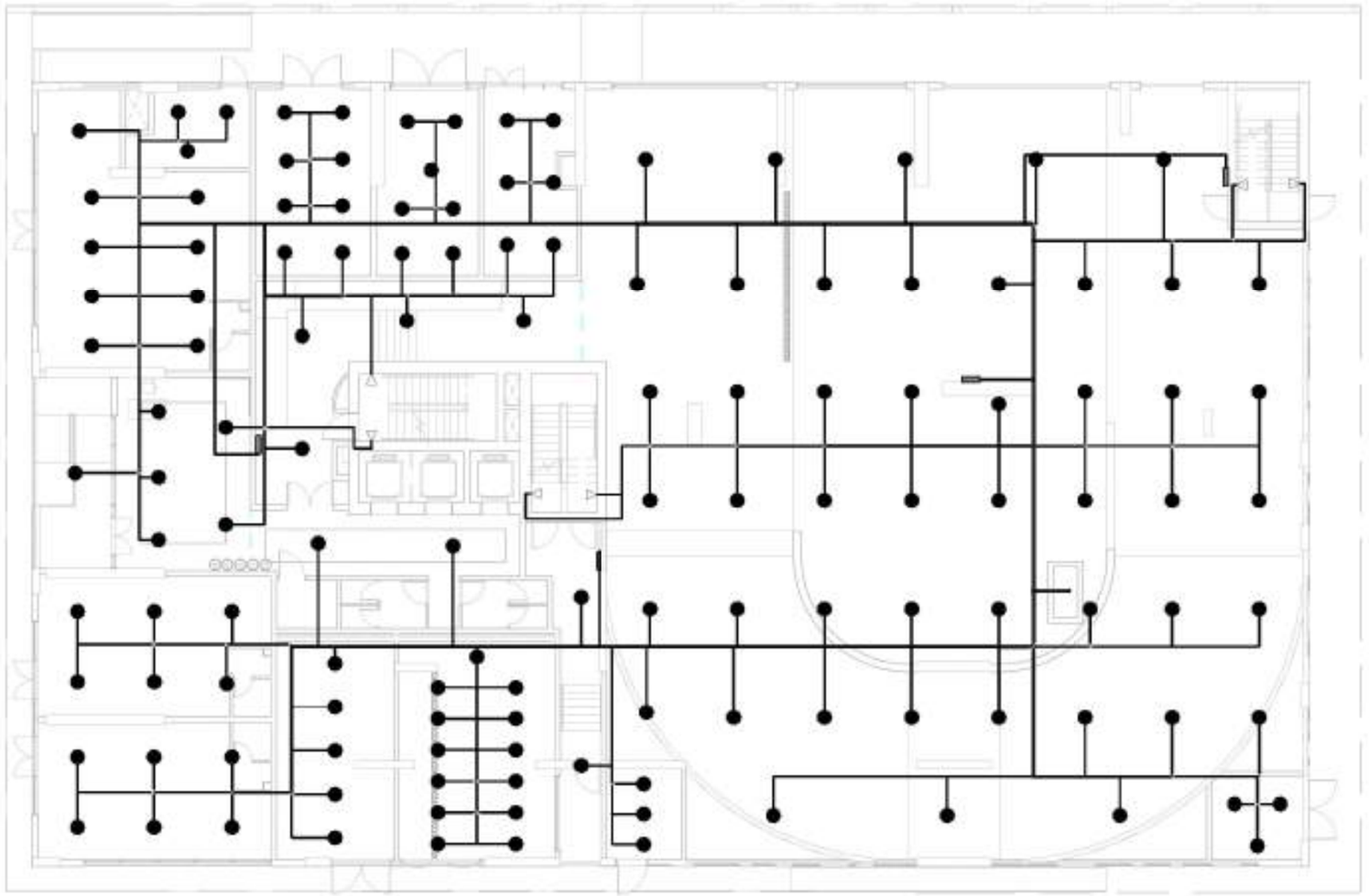
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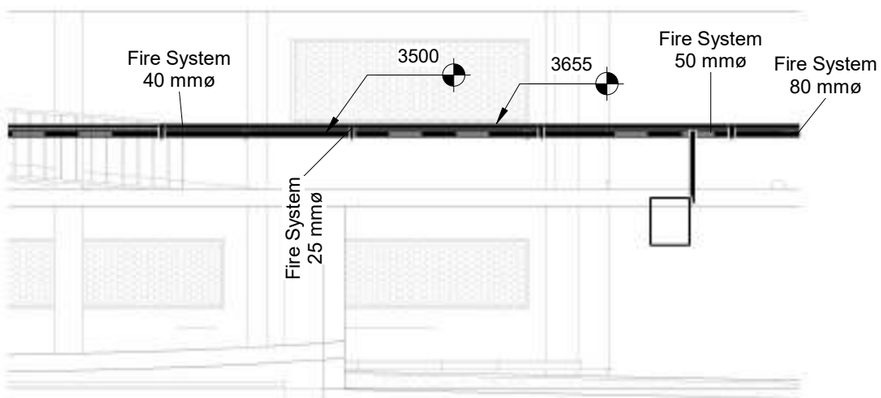
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Ground level Fire sprinkler piping



Spot elevation

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Symbol	Description
	Sprinkler pendent
	Sprinkler sidewall
	Gate valve
	Hose rack cabinet
	Diesel pump
	Electrical pump
	Jockey pump

No.	Description	Date

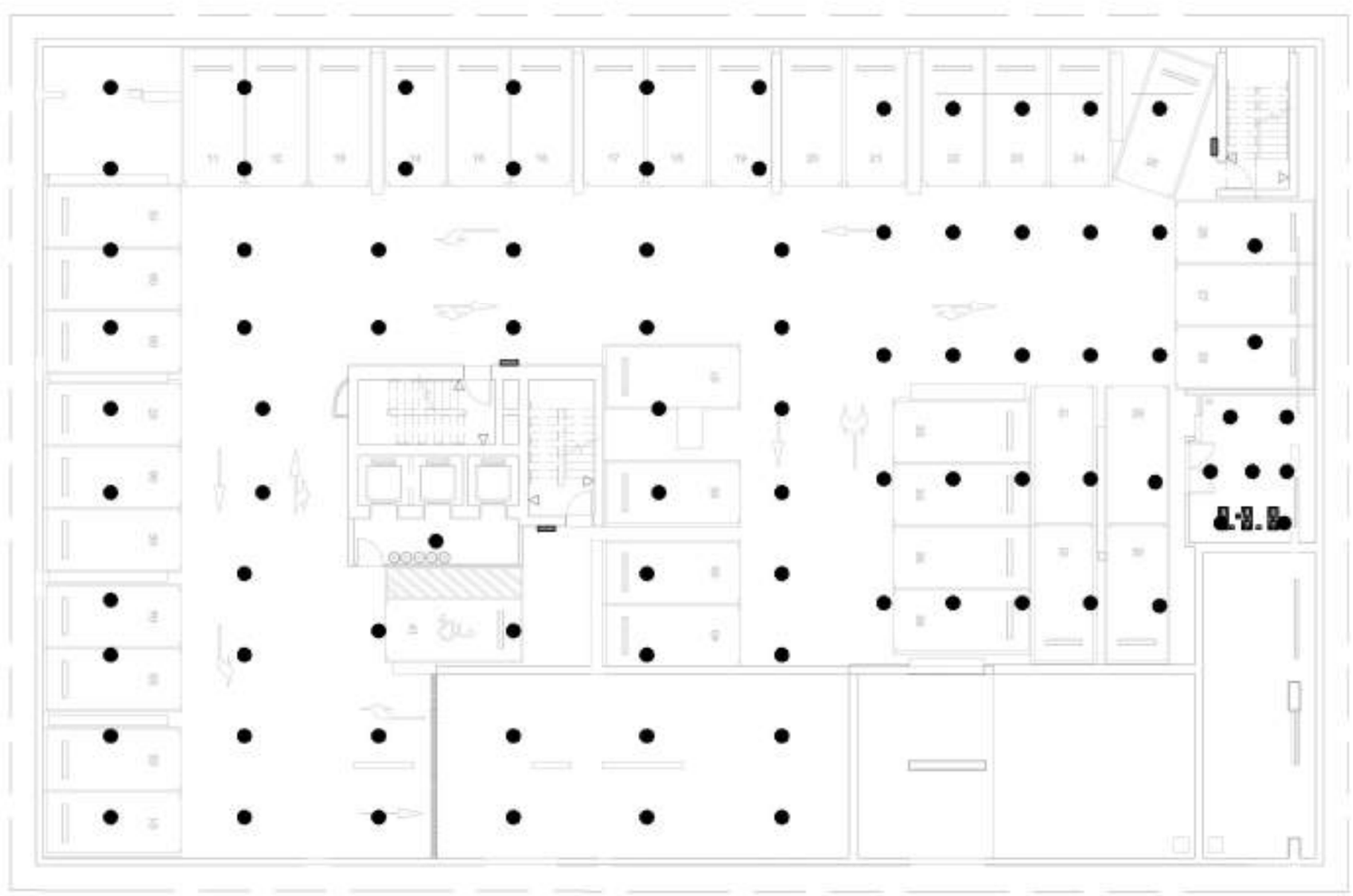
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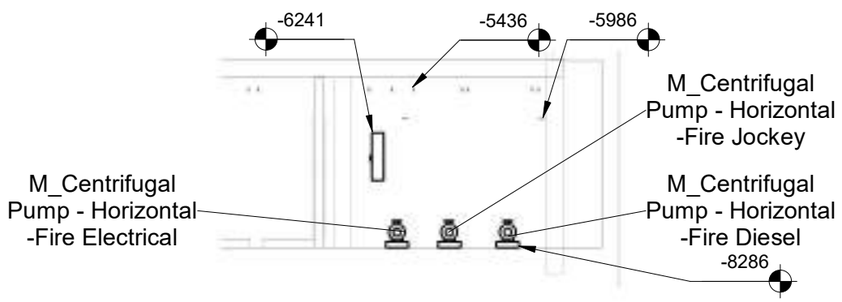
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Basement level Fire sprinkler component position



Spot elevation

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Symbol	Description
●	Sprinkler pendent
▷	Sprinkler sidewall
⊨	Gate valve
▭	Hose rack cabinet
	Diesel pump
	Electrical pump
	Jockey pump

No.	Description	Date

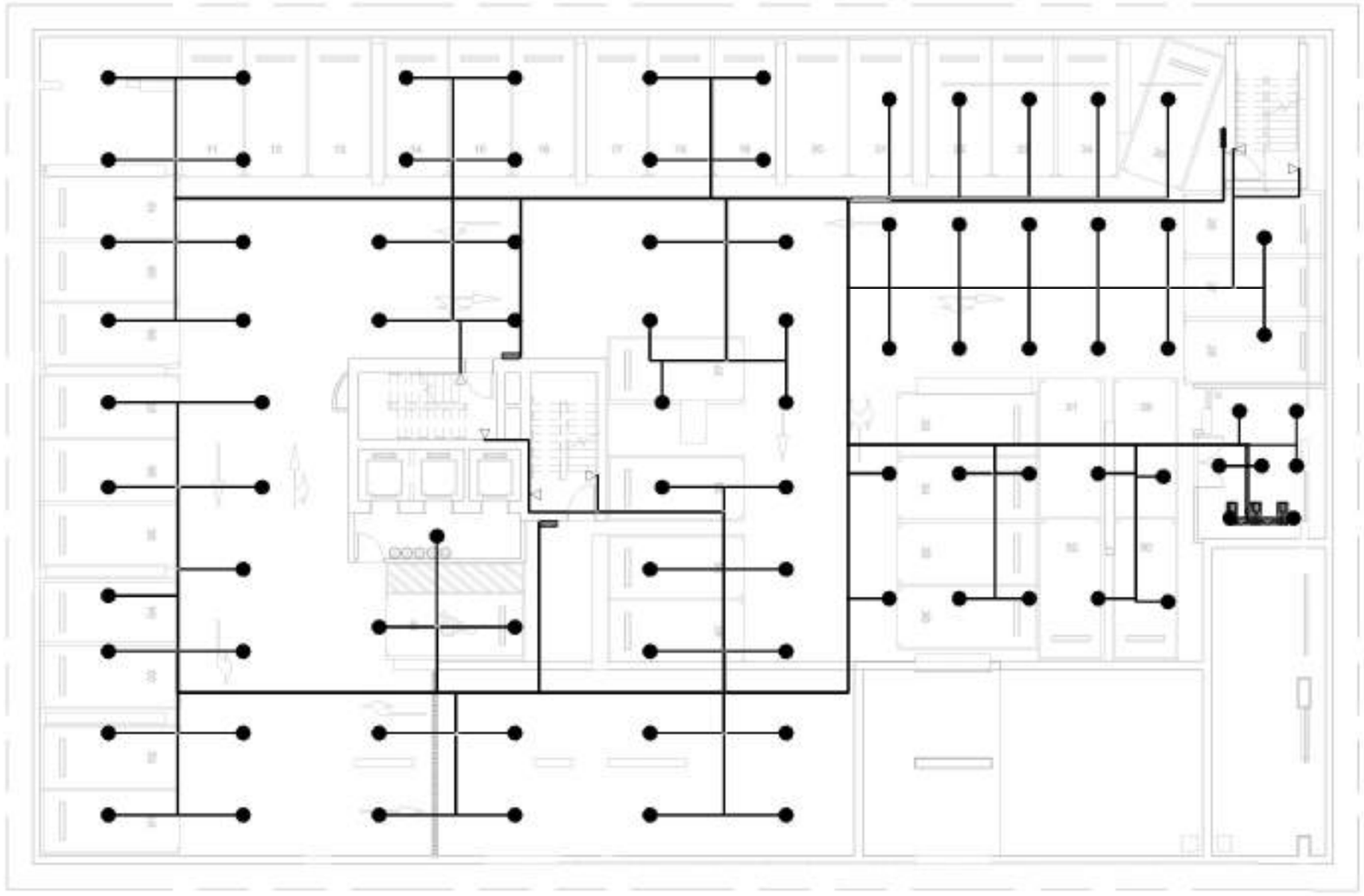
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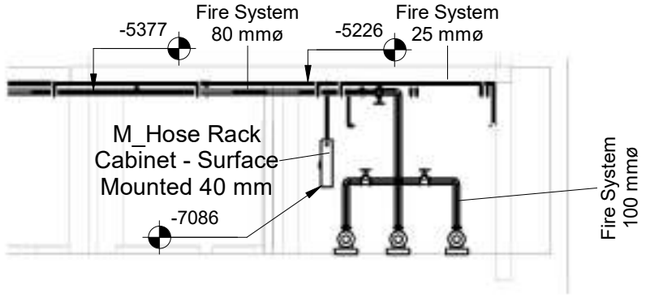
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Scale As indicated



Basement level Fire sprinkler piping



Spot elevation

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Symbol	Description
	Sprinkler pendent
	Sprinkler sidewall
	Gate valve
	Hose rack cabinet
	Diesel pump
	Electrical pump
	Jockey pump

No.	Description	Date

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Fire Fighting

Project number	01
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Scale As indicated

Hose Rack Cabinet Schedule			
Family and Type	Level	Elevation from Level	Count
M_Hose Rack Cabinet - Surface Mounted: 40 mm	101(+10.050)	1200	5
M_Hose Rack Cabinet - Surface Mounted: 40 mm	100(+0.300M)	1200	4
M_Hose Rack Cabinet - Surface Mounted: 40 mm	FP Basement	1200	3

Hose Rack Cabinet Schedule

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Sprinkler Schedule			
Family and Type	Level	Elevation from Level	Count
M_Sprinkler - Horizontal Sidewall - Hosted: 20 mm Horizontal Sidewall	101(+10.050)	2000	27
M_Sprinkler - Pendent - Hosted: 20 mm Pendent	101(+10.050)	2400	65
M_Sprinkler - Horizontal Sidewall - Hosted: 20 mm Horizontal Sidewall	100(+0.300M)	2500	6
M_Sprinkler - Pendent - Hosted: 20 mm Pendent	100(+0.300M)	3150	131
M_Sprinkler - Horizontal Sidewall - Hosted: 20 mm Horizontal Sidewall	FP Basement	2300	6
M_Sprinkler - Pendent - Hosted: 20 mm Pendent	FP Basement	2850	88
M_Sprinkler - Pendent - Hosted: 20 mm Pendent	FP Basement	8286	1

Sprinkler Schedule

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No.	Description	Date

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Fire Fighting

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Centrifugal pump Schedule			
Family and Type	Level	Elevation from Level	Count
M_Centrifugal Pump - Horizontal -Fire: Electrical	FP Basement	0	1
M_Centrifugal Pump - Horizontal -Fire: Jockey	FP Basement	0	1
M_Centrifugal Pump - Horizontal -Fire: Diesel	FP Basement	0	1

Centrifugal pump Schedule

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Fire Fighting

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Scale



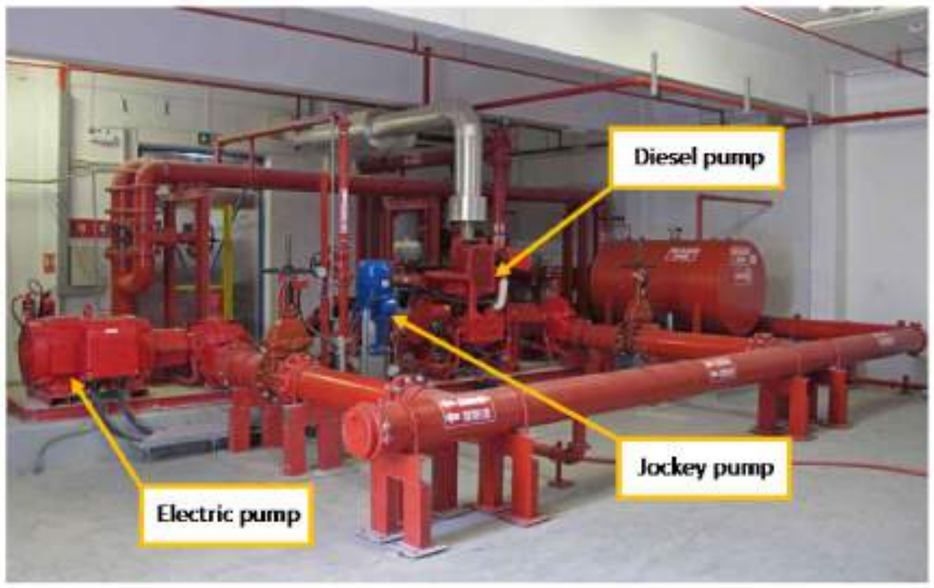
Gate valves



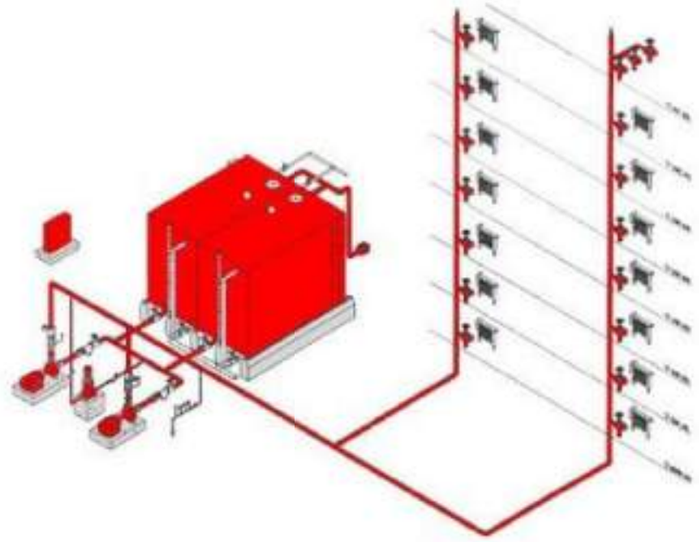
Hose Rack cabinet



Sprinklers



Centrifugal pumps



Fire sprinkler system

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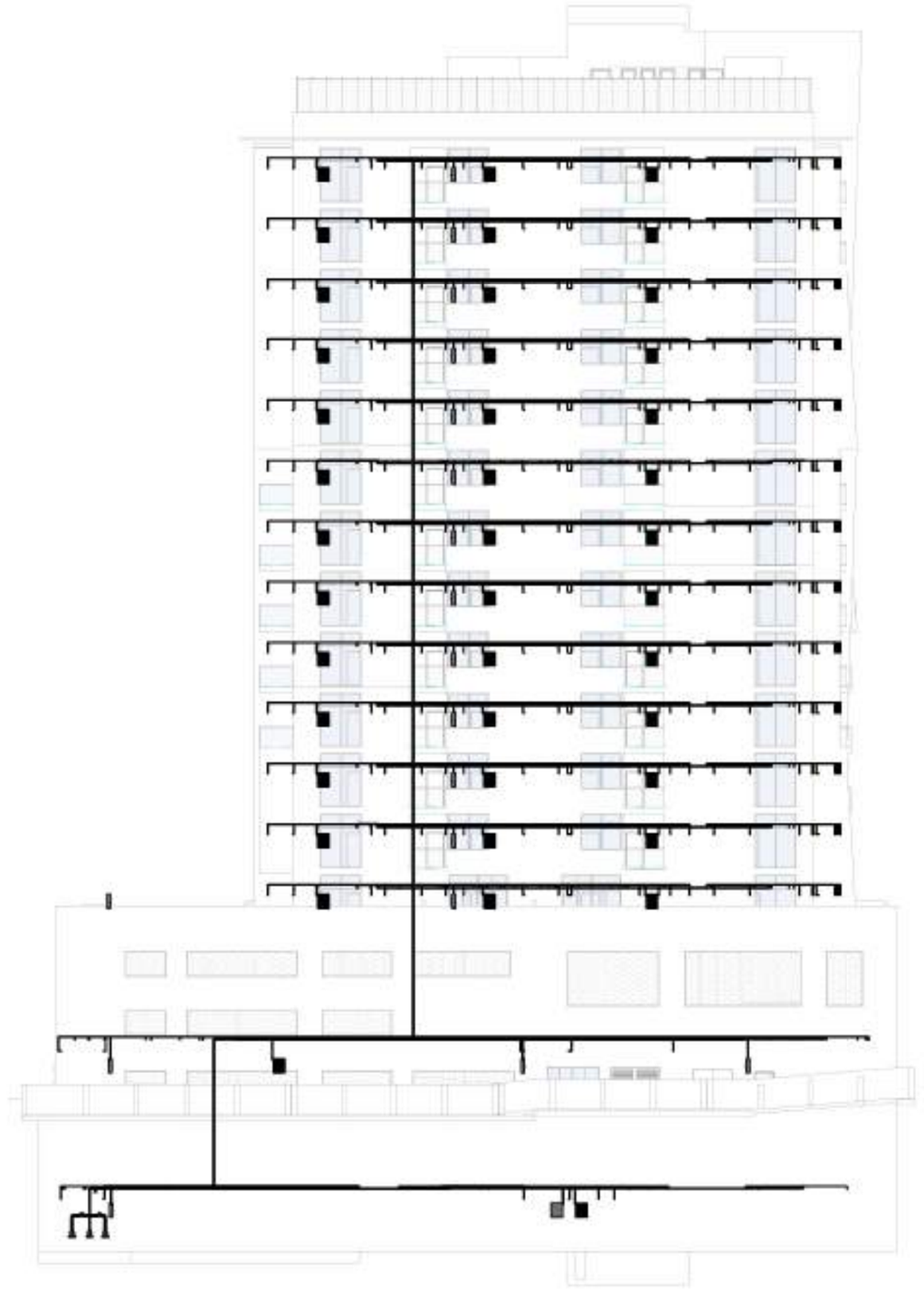
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Sprinkler system 3D view

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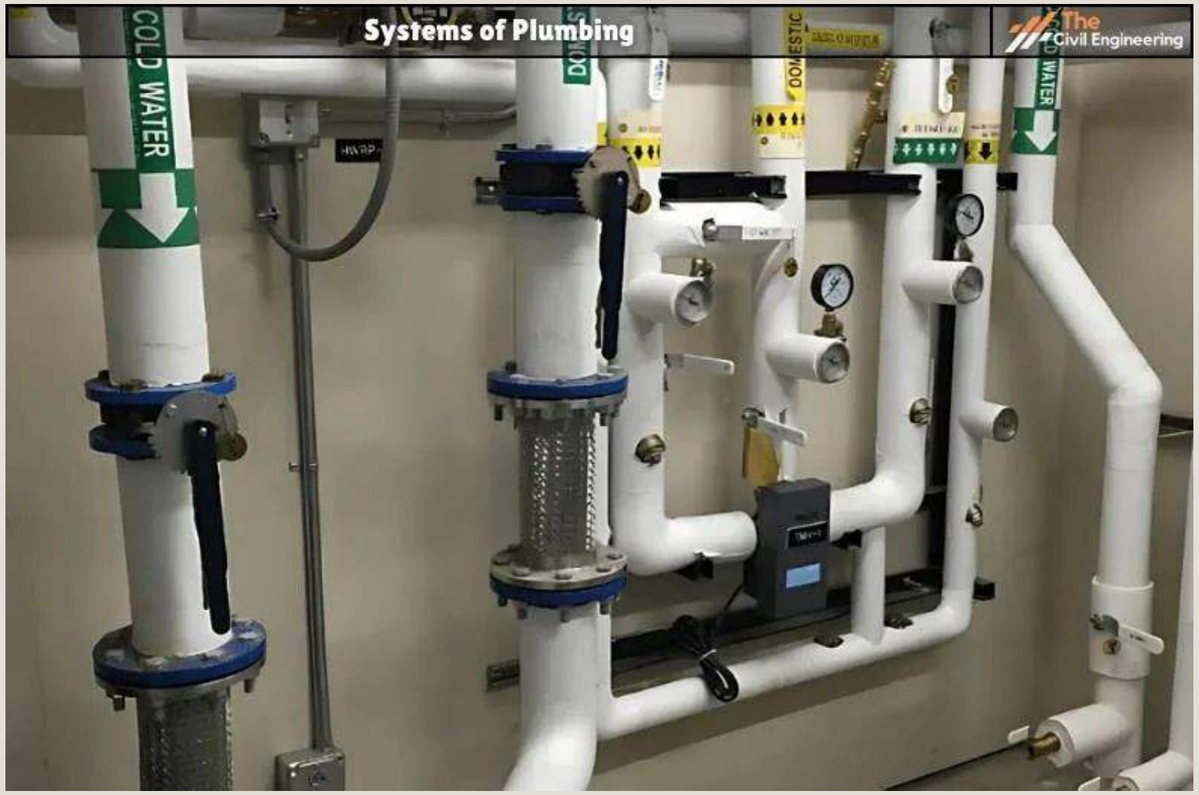
Scale

PLUMBING SYSTEM

PLUMBING SYSTEM OVERVIEW

- **Placement of plumbing fixtures**
- **Creation of plumbing system**
- **Cross check the pipe connector of plumbing fixture**
- **Manual or automatic piping**







Plumbing refers to the system of pipes, fixtures, and other apparatus required for the distribution of water for drinking, heating, washing and the removal of waste. It is an essential part of modern infrastructure in both residential and commercial buildings. Phanbing ensures safe natn supply and waste removal, contributing significantly to sanitation and public health.

1. **Key Components of Plumbing:**

- **Pipes: These are the main channels that carry water from the source (eg, municipal supply or well) to homes or buildings. They can be made of various materials, including copper, PVC, and PEX**
- **Valves: Valves control the flow of water throughout the system. Common types include gate, ball, and check valves.**
- **Faucets and Fixtures: Faucets regulate the water flow to sinks, bathtubs, showers, and other fixtures are the devices (sinks, toilets, bathtubs) that use water.**
- **Water Heater: Heats water for various needs such as battung, cooking, and cleming. Water heaters can be powered by electricity, gas, or solar energy**









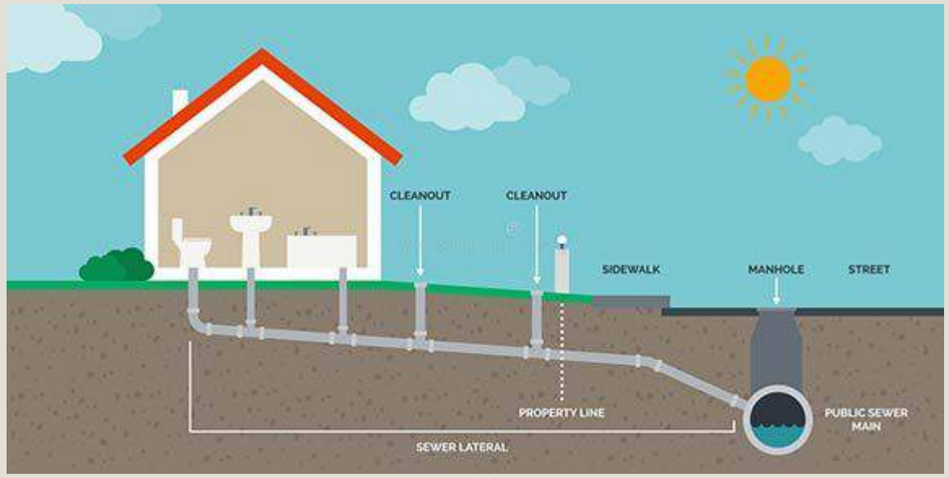
2. Drainage System:

- **Drain Pipes: These pipes remove wastewater from sinks, toilets, showers, etc., and carry it to the sewage or septic system.**
- **Sewer Lines: A large network of underground pipes that carries wastewater from homes or buildings to treatment plants.**
- **Traps: These are U-shaped sections of pipes that hold water to create a barrier preventing sewer gases from entering the living spaces Sewer line and trap.**
- **Vent Pipes: These pipes help to equalize pressure in the plumbing system and allow sewer gases to escape safely**









3. **Waste Disposal System:**

- **Toilets: They use water to remove waste and send it to the sewage system.**
- **Septic Systems: In areas without access to municipal sewer system, septic systems handle the waste by filtering and breaking it down in a large underground tank**





4. **Plumbing Fixtures and Appliances:**

- **Sinks, Showers, and Bathtubs: Devices that deliver water for cleaning and hygiene purposes.**
- **Dishwashers and Washing Machines: Appliances that use water to clean dishes and clothes**
- **Garbage Disposals: In aller in kitchen sinks to grind food waste into small pieces for easy disposal through the drainage system.**







5. **Maintenance and Repair:**

- **Leak Detection and Repair: Detecting leaks in pipes and fixtures is essential to prevent water damage and conserve water.**
- **Clog Removal: Blockages in drains and pipes can be caused by debris or grease buildup, which needs to be cleared to ensure proper function.**
- **Pipe Insulation: Insulating pipes prevents freezing in cold weather and reduces the risk of damage to the plumbing system.**

Types of Plumbing

- **Residential Plumbing: Plumbing systems in homes and apartments, including kitchens, bathrooms, and outdoor systems.**
- **Commercial Plumbing:Plumbing systems in businesses, offices, schools, hospitals, and other larger facilities. This system is more complex due to higher water usage and more fixtures.**
- **Industrial Plumbing: Systems designed for factories and industrial sites that may involve larger pipes, water supply, and waste disposal needs.**















Floor level (101-113) Position of Plumbing fixtures

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Symbol	Description
	Bath Tub
	Shower bath faucet
	Water Closet
	Shower stall
	Wash Basin 750x600
	Floor Drain round
	Sink 500x400
	Kitchen Sink
	Kitchen Sink small
	Wash Basin 550x600
	Sink 400x300
	Disabled Toilet

No.	Description	Date

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Plumbing

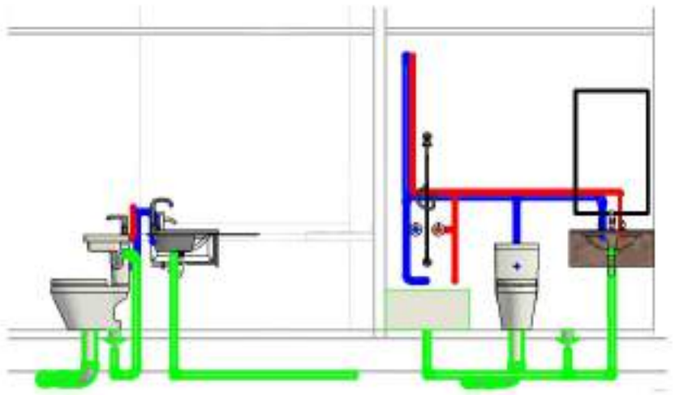
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

087

Scale As indicated



Floor level (101-113) Connection of Plumbing fixtures



Spot Elevation

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Symbol	Description
	Bath Tub
	Shower bath faucet
	Water Closet
	Shower stall
	Wash Basin 750x600
	Floor Drain round
	Sink 500x400
	Kitchen Sink
	Kitchen Sink small
	Wash Basin 550x600
	Sink 400x300
	Disabled Toilet

No.	Description	Date

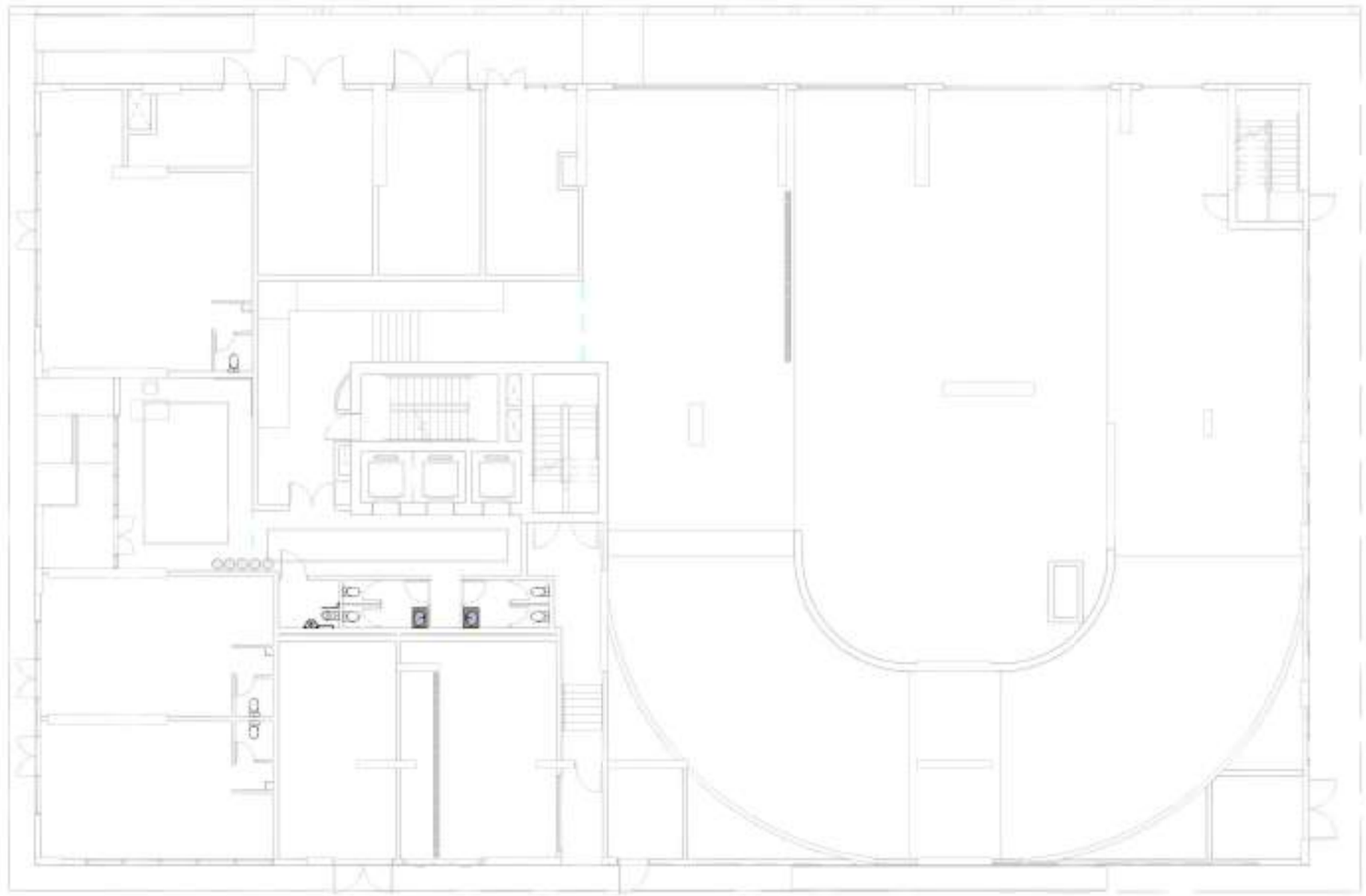
UAE Based Project

Plumbing

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

088

Scale As indicated



Ground level Position of Plumbing fixtures

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No.	Description	Date

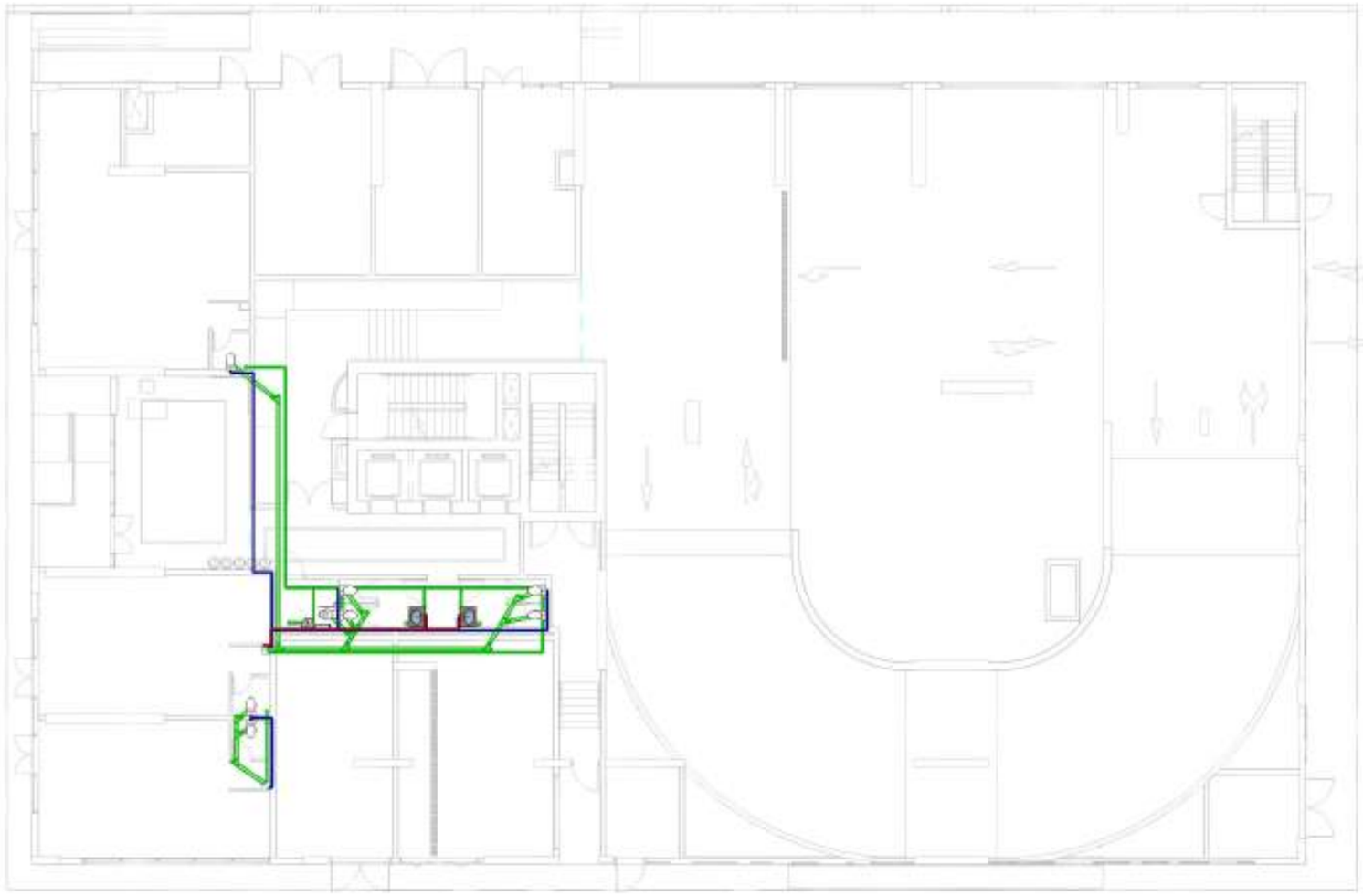
UAE Based Project

Plumbing

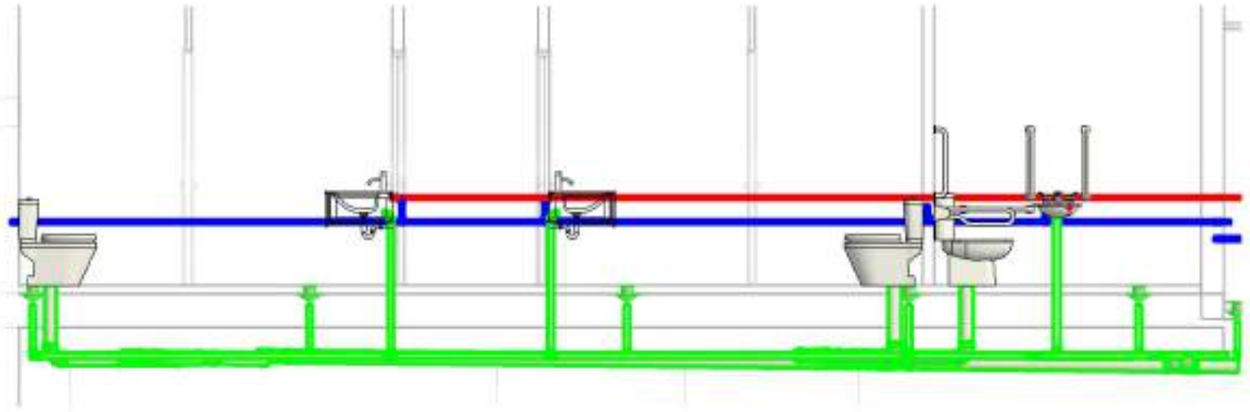
Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

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Scale 1 : 200



Ground level Connection of Plumbing fixtures



Spot Elevation

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No.	Description	Date

UAE Based Project

Plumbing

Project number	01
Date	01 June 2025
Drawn by	Alphin T S
Checked by	Helni

090

Scale As indicated

Plumbing Fixture Schedule			
Family	Level	Elevation from Level	Count
Bath (1)_2D	102	-400	2
Bath (1)_2D	102	3200	2
Bath (1)_2D	102	6800	2
Bath (1)_2D	102	10400	2
Bath (1)_2D	102	14000	2
Bath (1)_2D	102	17600	2
Bath (1)_2D	102	21200	2
Bath (1)_2D	102	24800	2
Bath (1)_2D	102	28400	2
Bath (1)_2D	102	32000	2
Bath (1)_2D	102	35600	2
Bath (1)_2D	102	39200	2
Bath (1)_2D	101(+10.050) position	-400	2
ED_Bath Tub	102	0	10
ED_Bath Tub	102	3600	10
ED_Bath Tub	102	7200	10
ED_Bath Tub	102	10800	10
ED_Bath Tub	102	14400	10
ED_Bath Tub	102	18000	10
ED_Bath Tub	102	21600	10
ED_Bath Tub	102	25200	10
ED_Bath Tub	102	28800	10
ED_Bath Tub	102	32400	10
ED_Bath Tub	102	36000	10
ED_Bath Tub	102	39600	10
ED_Bath Tub	101(+10.050) position	0	8
ED_Disabled Toilet	101(+10.050) position	0	1
ED_Disabled Toilet	100(+0.300M) connection	0	1
ED_Sink	102	860	2
ED_Sink	102	4460	1
ED_Sink	102	8060	1
ED_Sink	102	11660	1
ED_Sink	102	15260	1
ED_Sink	102	18860	1
ED_Sink	102	22460	1

Plumbing Fixture Schedule			
Family	Level	Elevation from Level	Count
ED_Sink	102	26060	1
ED_Sink	102	29660	1
ED_Sink	102	33260	1
ED_Sink	102	36860	1
ED_Sink	102	40460	1
ED_Sink	101(+10.050) position	860	1
ED_Sink Wall Mounted	102	541	6
ED_Sink Wall Mounted	102	4141	6
ED_Sink Wall Mounted	102	7741	6
ED_Sink Wall Mounted	102	11341	6
ED_Sink Wall Mounted	102	14941	6
ED_Sink Wall Mounted	102	18541	6
ED_Sink Wall Mounted	102	22141	6
ED_Sink Wall Mounted	102	25741	6
ED_Sink Wall Mounted	102	29341	6
ED_Sink Wall Mounted	102	32941	6
ED_Sink Wall Mounted	102	36541	6
ED_Sink Wall Mounted	102	40141	6
ED_Sink Wall Mounted	101(+10.050) position	541	7
ED_Wash Basin with Counter & Mirror	102	0	10
ED_Wash Basin with Counter & Mirror	102	3600	10
ED_Wash Basin with Counter & Mirror	102	7200	10

Plumbing fixture schedule

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Plumbing

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Checked by	Helni

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Scale

Plumbing Fixture Schedule			
Family	Level	Elevation from Level	Count
ED_Wash Basin with Counter & Mirror	102	10800	10
ED_Wash Basin with Counter & Mirror	102	14400	10
ED_Wash Basin with Counter & Mirror	102	18000	10
ED_Wash Basin with Counter & Mirror	102	21600	10
ED_Wash Basin with Counter & Mirror	102	25200	10
ED_Wash Basin with Counter & Mirror	102	28800	10
ED_Wash Basin with Counter & Mirror	102	32400	10
ED_Wash Basin with Counter & Mirror	102	36000	10
ED_Wash Basin with Counter & Mirror	102	39600	10
ED_Wash Basin with Counter & Mirror	102	45350	1
ED_Wash Basin with Counter & Mirror	101(+10.050) position	0	9
ED_Wash Basin with Counter & Mirror	100(+0.300M) connection	-40	2
ED_WC	102	0	8
ED_WC	102	45350	1
ED_WC	101(+10.050) position	0	2
ED_WC	100(+0.300M) connection	-150	1
ED_WC	100(+0.300M) connection	0	4
ED_WC		0	200
M_Floor Drain - Round	101(+10.050) position	0	22
M_Floor Drain - Round	100(+0.300M) connection	-150	3
M_Floor Drain - Round	100(+0.300M) connection	0	7
Shower Stall-2D	101(+10.050) position	0	2
Shower_Bath_Faucet_7100	102	58	10
Shower_Bath_Faucet_7100	102	3658	10

Plumbing Fixture Schedule			
Family	Level	Elevation from Level	Count
Shower_Bath_Faucet_7100	102	7258	10
Shower_Bath_Faucet_7100	102	10858	10
Shower_Bath_Faucet_7100	102	14458	10
Shower_Bath_Faucet_7100	102	18058	10
Shower_Bath_Faucet_7100	102	21658	10
Shower_Bath_Faucet_7100	102	25258	10
Shower_Bath_Faucet_7100	102	28858	10
Shower_Bath_Faucet_7100	102	32458	10
Shower_Bath_Faucet_7100	102	36058	10
Shower_Bath_Faucet_7100	102	39658	10
Shower_Bath_Faucet_7100	101(+10.050) position	58	10
Sink 1000	102	860	7
Sink 1000	102	4460	7
Sink 1000	102	8060	7
Sink 1000	102	11660	7
Sink 1000	102	15260	7
Sink 1000	102	18860	7
Sink 1000	102	22460	7
Sink 1000	102	26060	7
Sink 1000	102	29660	7
Sink 1000	102	33260	7
Sink 1000	102	36860	7
Sink 1000	102	40460	7
Sink 1000	101(+10.050) position	860	6

Plumbing fixture schedule

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No.	Description	Date

UAE Based Project

Plumbing

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Scale

Cold water Pipe Schedule				
Type	System Classification	Size	Material	Count
Cold Water	Domestic Cold Water	25 mmø	Polyvinyl Chloride - Rigid	213
Cold Water	Domestic Cold Water	32 mmø	Polyvinyl Chloride - Rigid	9

Hot water Pipe Schedule				
Type	System Classification	Size	Material	Count
Hot water	Domestic Hot Water	25 mmø	Copper	143
Hot water	Domestic Hot Water	32 mmø	Copper	3

water waste Pipe Schedule				
Type	System Classification	Size	Material	Count
Water waste	Sanitary	40 mmø	Polyvinyl Chloride - Rigid	216
Water waste	Sanitary	50 mmø	Polyvinyl Chloride - Rigid	3

Soil waste Pipe Schedule				
Type	System Classification	Size	Material	Count
Soil Waste	Sanitary	40 mmø	Polyvinyl Chloride - Rigid	3
Soil Waste	Sanitary	50 mmø	Polyvinyl Chloride - Rigid	1
Soil Waste	Sanitary	100 mmø	Polyvinyl Chloride - Rigid	77

Pipe schedule

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No.	Description	Date

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Scale



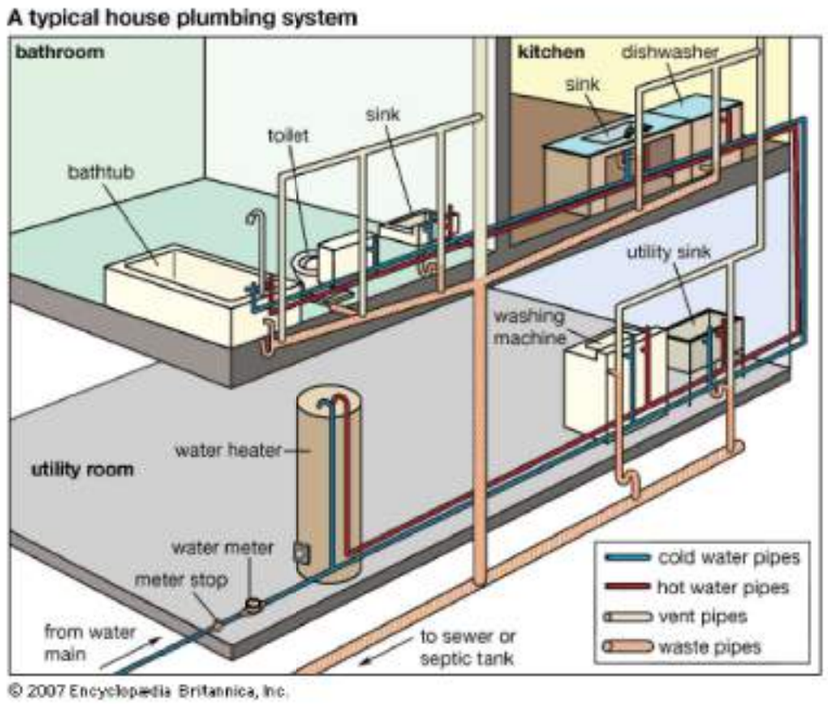
Plumbing fittings



Pipes



Plumbing fixture



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Plumbing

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Scale



Plumbing 3D view

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Plumbing

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Scale

Thank You