EQUIPMENT SCHEDULE

AC

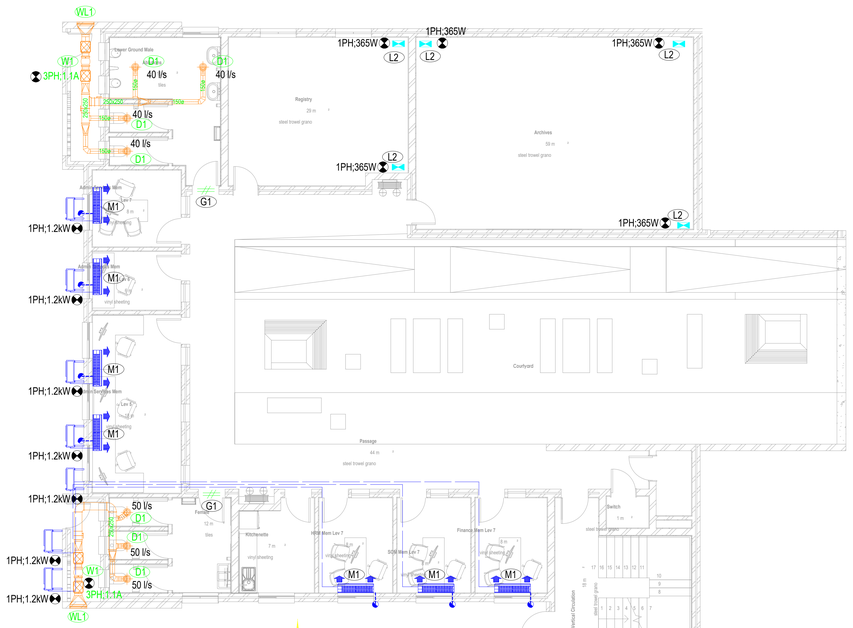
Mark	Unit description	Size (mm)	Quantity	Unit specification	POWER (W)
CU1	Consele AC Unit		13	220-240v/50Hz/1 phase	860
CU2	Consele AC Unit		10	220-240v/50Hz/1 phase	1300
M1	3,6kW Midwall Unit		16	220-240v/50Hz/1 phase	1200
M2	5,3kW Midwall Unit		1	220-240v/50Hz/1 phase	2000
M3	7,0kW Midwall Unit		1	220-240v/50Hz/1 phase	2800
K1	10,5kW Cassette Unit	800x800	1	380v/50Hz/3 phase	3400
K2	5,3kW Cassette Unit	600x600	3	220-240v/50Hz/1 phase	1800
L1	10 l/s Floor Standing dehumidifier		5	220-240v/50Hz/1 phase	365
L2	20 l/s Floor Standing dehumidifier		10	220-240v/50Hz/1 phase	365

FANS

Mark	Unit description	Size (mm)	Quantity	Unit specification	POWER (W)
W1	160 l/s EXTRACT air fan		3	50Hz / 1-Phase (1,1 Amps)	
W2	200 l/s EXTRACT air fan		4	50Hz / 1-Phase (1,1 Amps)	
W3	700 l/s EXTRACT air fan		1	50Hz / 1-Phase (1,1 Amps)	
W4	240 l/s Axial flow Kitchen Extract Fan		1	50Hz / 1-Phase (1,1 Amps)	
W5	100 l/s EXTRACT air fan		1	50Hz / 1-Phase (1,1 Amps)	
P1	P1 - 300 l/s EXTRACT air fan		1	50Hz / 1-Phase (1,1 Amps)	
WF1	250 l/s WALL fan		4	50Hz / 1-Phase (2,0 Amps)	
WF2	30 l/s WALL fan		3	50Hz / 1-Phase (2,0 Amps)	
WF3	50 l/s WALL fan		3	50Hz / 1-Phase (1,0 Amps)	
WF4	65 l/s WALL fan		1	50Hz / 1-Phase (2,0 Amps)	
WF5	400 l/s FRESH AIR WALL FAN WITH FILTER		1	50Hz / 1-Phase (2,0 Amps)	

AIR TERMINALS

Mark	Unit description	Size (mm)	Quantity	COLOUR	POWER
D1	Disc Valve	Ø100	46	As per Architect	
D2	Disc Valve	Ø200	0	As per Architect	
WL1	WEATHER LOUVRE	350x400	9	As per Architect	
WL2	WEATHER LOUVRE	550x500	1	As per Architect	
VCD	VOLUME CONTROL DAMPER	As per duct size	20	As per Architect	
EC1	EXTRACTION CANOPY	2000X1200	1	As per Architect	
G1	DOOR GRILLE	300X300	14	As per Architect	



LOWER GROUND

FIRST FLOOR

LEGEND

- DOOR GRILLE
- DEHUMIDIFIER
- ø25mm UPVC TRAPPED DRAIN POINT DOWN TO LOW LEVEL
- VOLUME CONTROL DAMPER (VCD)
- AC REMOTE CONTROLLER
- POWER SUPPLY POINT BY OTHERS
- FRESH AIR SYSTEM
- EXTRACT AIR SYSTEM
- CONDITIONED AIR SYSTEM

General Notes

1. Do not Scale the Drawing
2. All dimensions to be checked on site before manufacturing or ordering of equipment.
3. The installation shall comply with the requirements of the Occupational Health and Safety Act of 1993.
4. The installation shall be in accordance with SANS 10400.
5. Any inclarities to be brought to the attention of the Consulting Engineer.
6. This drawing, or part thereof, must not be used for any other installation/ project other than this one.
7. Final extract positions to be determined on site and to be directly above stove where possible.
8. Final postions to be measured by contractor and confirmed on workshop drawings.

HVAC Notes

1. All flexible ducting shall be of the insulated fire rated type
2. Flexible ducting shall not exceed 1500mm in length
3. All filters shall be of the washable permanent type
4. All duct sizes indicated are internal free air space dimensions
5. All external ducting shall be 50mm externally insulated cladded
6. All ducting shall have Mez flanges
7. All condensate drain piping shall be sized according to manufacturer
8. All condensate drain piping fall no less than 1 percent
9. All condensate piping shall fall
   All condensate piping on the facade shall be as detail shown
10. All fresh air fans and centralised hvac systems to seize operating upon activaion of fire alarm. HVAC System to have applicable interface with fire detection system.
11. Thermostate controller wiring mounted in 20mm uPVC conduit
12. All Air conditioning units on ceiling
13. All air conditioning ducting to be externally insulated
14. All air conditioning ducting to be insulated with 25mm FRK

REVISIONS:

NO	DATE	DESCRIPTION	DRN BY
01	2025-11-28	ISSUE FOR TENDER	D.G.

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DIHLASE

MECHANICAL

PROJECT NAME:

NEW POLICE STATION
MSINSINI

SHEET TITLE:

LOWER - AND FIRST FLOOR - HVAC

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PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	
FOR TENDER PURPOSES	✓
FOR CONSTRUCTION	

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