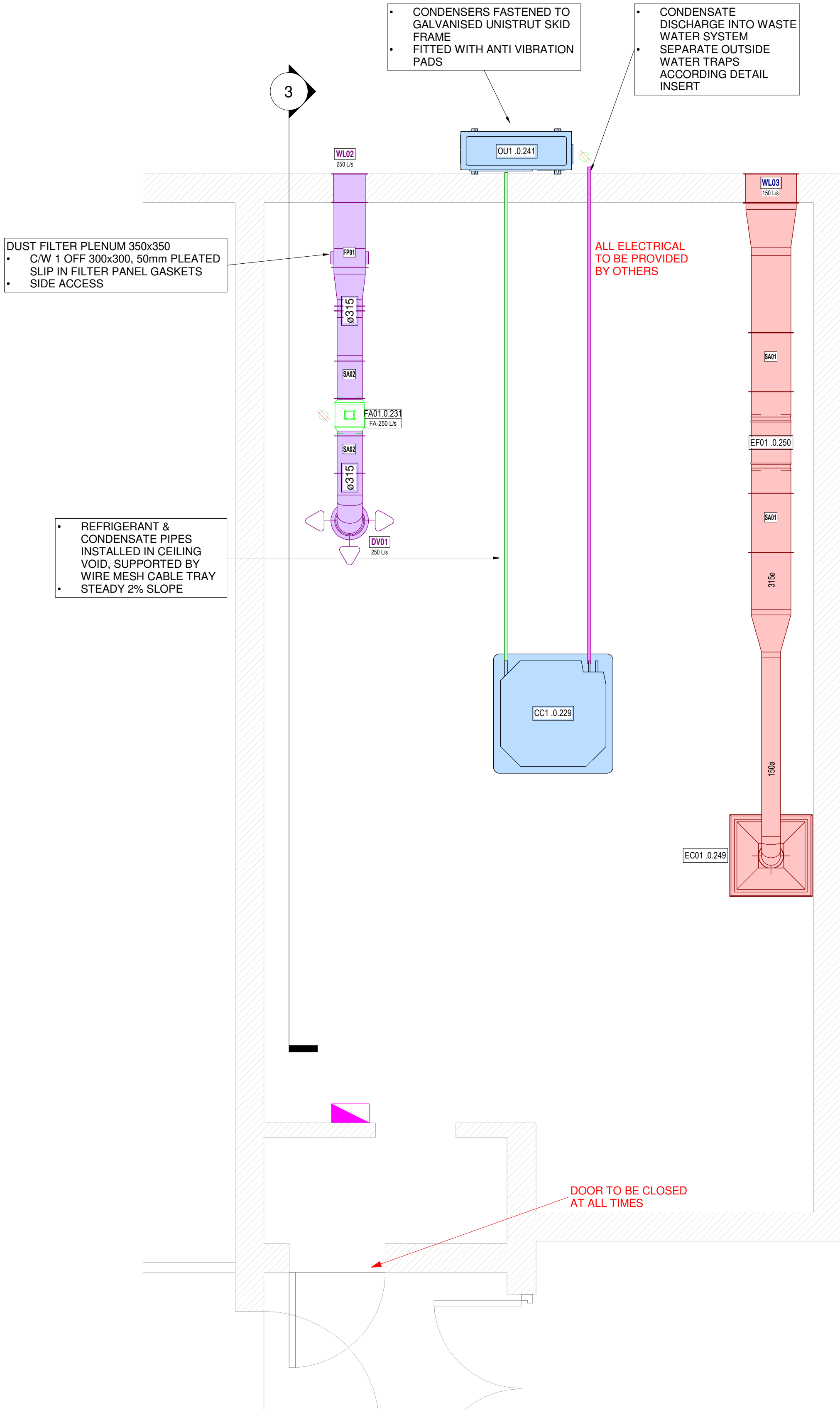




DUST FILTER PLENUM 350x350

- C/W 1 OFF 300x300, 50mm PLEATED SLIP IN FILTER PANEL GASKETS
- SIDE ACCESS

- REFRIGERANT & CONDENSATE PIPES INSTALLED IN CEILING VOID, SUPPORTED BY WIRE MESH CABLE TRAY
- STEADY 2% SLOPE

- CONDENSERS FASTENED TO GALVANISED UNISTRUT SKID FRAME
- FITTED WITH ANTI VIBRATION PADS

- CONDENSATE DISCHARGE INTO WASTE WATER SYSTEM
- SEPARATE OUTSIDE WATER TRAPS ACCORDING DETAIL INSERT

ALL ELECTRICAL TO BE PROVIDED BY OTHERS

Section 1
1 : 25

SCOPE OF WORKS BY OTHERS:

SABS ELECTRICAL

- AS INDICATED ON THE DRAWING & MAKED & INSTRUCTED BY HVAC INSTALLER
- SUPPLY & INSTALL POWER CABLE & SWITCHGEAR TO THE HVAC SUB DB

SABS BUILDER

- AS INDICATED ON THE DRAWING & MARKED & INSTRUCTED BY HVAC INSTALLER
- WALL PENETRATION FOR FRESH AIR AND EXTRACTION AIR DUCT

SABS PLUMBER:

- SUPPLY AND INSTALL 20x20 HIGH PRESSURE WATER SUPPLY THROUGH SABS METER INCLUDING LOCKABLE TAP MOUNTED ADJACENT TO CONDENSERS AT NOMINAL 1000AFL

HVAC ELECTRICAL

- THE SUPPLY AND INSTALLATION OF A SEPARATE HVAC SUD DB
- THE SUPPLY & INSTALLATION OF CABLES & SWITCHGEAR REQUIRED FOR SWITCHING OF THE AC UNITS OFFICE COOLING SYSTEM & FRESH AIR FAN BY THE MANAGER'S MAIN LIGHT SWITCH

01-GF-MECHANICAL FANS SCHEDULE

REFERENCE	REFERENCE	TYPE	SIZE	AIR VOLUME	RUNNING CURRENT	POWER	PRESSURE	QTY
EF01.0.250	EF01	MIXVENT AMS WJ 315KIT FAN	ø308	150 L/s	0.74	220V/1PH/50Hz	250.0 Pa	1
FA01.0.231	FA01	MIXVENT AMS WJ 315KIT FAN	ø308	250 L/s	1.1	220V/1PH/50Hz	250.0 Pa	1

01-GF-MECHANICAL INDOOR UNITS SCHEDULE

TAG	TYPE	COOLING CAPACITY (kW)	RUNNING CURRENT (A)	QTY
CC1.0.229	CEILING CASSETTE	7kW		1
EC01.0.249	HEAT EXTRACTION CANOPY	450x450		1

01-GF-AIR TERMINALS

REFERENCE	TYPE	PHYSICAL SIZE	SPIGOT SIZE	QTY
DV01	FRESH AIR DISC VALVE	ø250	250	1
WL02	WEATHER LOUVRE WITH VERMIN SCREEN	400x300		1
WL03	WEATHER LOUVRE WITH VERMIN SCREEN	400x300		1

01-GF-MECHANICAL OUTDOOR UNITS SCHEDULE

TAG	REFERENCE	TYPE	RUNNING CURRENT	COOLING CAPACITY (kW)	QTY
OU1.0.241	OU1	OUTDOOR CONDENSER UNIT	0.08 A	7kW	1

01-GF-DUCT ACCESSORIES SCHEDULE

REFERENCE	TYPE	SIZE	QTY
FP01	FILTER PANEL	350x350	1
SA01	SOUND ATTENUATOR	ø315	2
SA02	SOUND ATTENUATOR	ø200	2

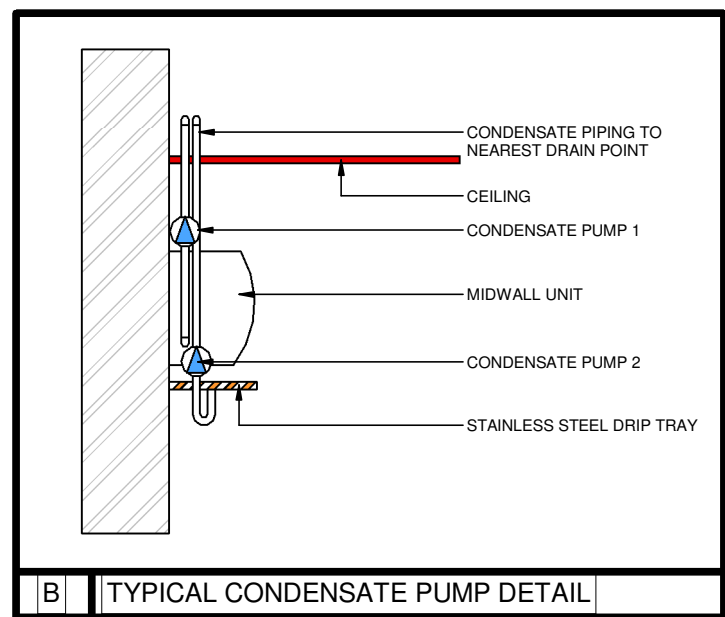
01-GF-ELECTRICAL-BY OTHERS

SYMBOL	REFERENCE	TYPE	QTY
AC	AC	AIRCON CONTROLLER	1
E1	E1	SINGLE PHASE ISOLATOR	2

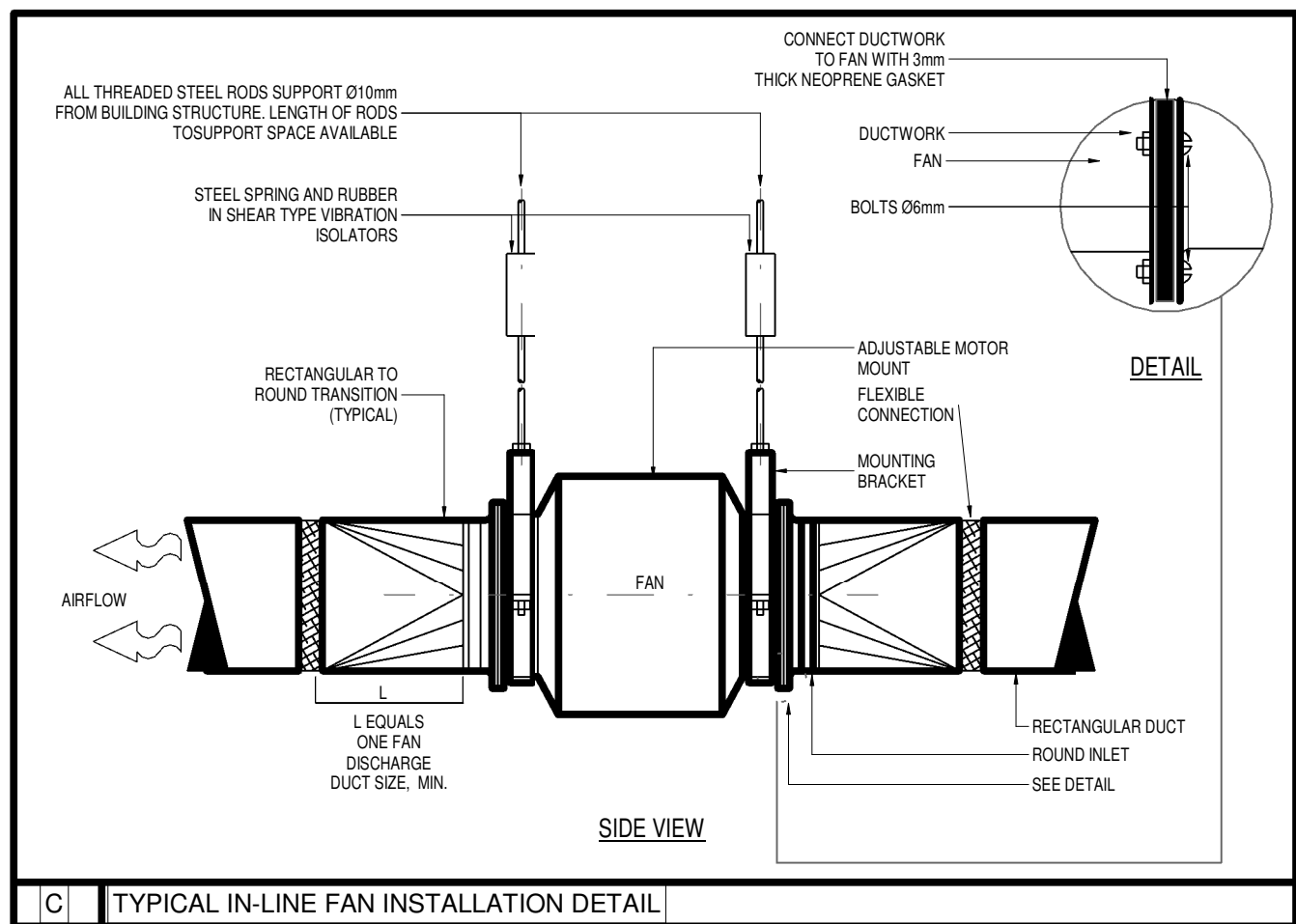
HVAC LEGEND

EXTRACTION AIR DUCT
RETURN AIR DUCT
SUPPLY AIR DUCT
FRESH AIR DUCT
EXISTING EQUIPMENT
FLEX DUCT
CONDENSATE PIPE ROUTE
REFRIGERANT PIPE ROUTE

ISSUED FOR TENDER



Typical CONDENSATE PUMP DETAIL



Typical IN-LINE FAN INSTALLATION DETAIL

APPROVED

NAME _____ SIGNATURE _____

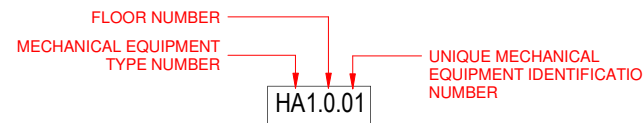
PR. NO _____ DATE _____

NOTES

INSTALLATION NOTE

- ALL HIDDEN DUCTED SPLIT UNITS TO HAVE 25mm INSULATION AROUND SUPPLY DUCTWORK.
- ALL EXPOSED DUCTWORK SHOULD BE PAINTED TO ARCHITECTS FINISH DETAIL.
- ALL EXPOSED DUCTWORK SHOULD BE SPIRAL DUCTING AND INTERNALLY INSULATED.
- CEILING LAYOUT TO BE CONFIRMED AND CO-ORDINATED BETWEEN SERVICES.
- ALL AC UNITS AND DUCTWORK TO BE WRAPPED ON SITE TO STOP EQUIPMENT AND COILS FROM BECOMING DIRTY DURING CONSTRUCTION.
- P1 = CONDENSATE PIPE TO CONNECT TO NEAREST DRAIN POINT WITH P-TRAP.
- ALL ELECTRICAL TO BE PROVIDED BY OTHERS

LEGEND



DUCTWORK NOTES:

- ALL DUCT WORK TO BE MANUFACTURED TO THE LATEST S.M.A.C.N.A STANDARDS WITH FLANGED JOINTS ON DUCTS EXCEEDING 600 SEMI PERIMETER OR ONE SIDE EXCEEDS 750 AND S&D JOINTS ON SMALLER DUCTS.
- ALL A.C. DUCTING TO BE INTERNALLY INSULATED WITH 25mm SONIC INSULATION UNLESS OTHERWISE SHOWN.
- ALL VENTILATION DUCTING TO BE UNINSULATED.
- ALL FLEXIBLE DUCTING TO BE FACTORY PRE-INSULATED. ALL FLEXIBLE DUCTING TO BE FIXED TO SPIGOTS WITH JUBILEE CLAMPS AND STRAPPED WITH DUCT TAPE.
- SPIGOTS TO BE EXTERNALLY INSULATED WITH 25mm FOIL FACED FIBREGLOSS.
- ALL HANGERS AND BRACKETS TO BE GALVANISED.
- ALL DUCTWORK TO BE HUNG ON 30x50x1.6 G.S.M. CHANNEL TRAPEZE HANGERS WITH Ø8 RODS.
- FLEXIBLE CONNECTIONS TO BE FITTED TO ALL DUCTING BETWEEN AIRHANDLING AND PACKAGE UNITS, FANS, ETC.
- ALL GRILLE BRANCHES TO HAVE STRAIGHTENING VANES AS DETAILED.

TENDER

REVISIONS

REV	DATE	DESCRIPTION	BY
0A	2024-03-18	ISSUED FOR TENDER	DK

CLIENT _____ ARCHITECT _____

SABS **ADQ**
AFRICAN DYNAMIC QUALITY
ENGINEERING PROJECTS

CONSULTANT

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PROJECT DESCRIPTION

SABS PRETORIA

DRAWING TITLE

ROOM MG08 HVAC LAYOUT

DATE
2024-02-01

DRAWN BY
D.KRUGER

CHECKED BY
D.DE WIT

DESIGNED BY
D.DE WIT

DRAWING SIZE
A1

SCALE
As indicated

DRAWING NUMBER
P23072-TN-MEC-101

REV
0A

1 ROOM MG08
1 : 25