

- ### GENERAL NOTES:
- SHEET METAL DUCTING MUST BE GALVANISED MILD STEEL, WITH MEZZ-FLANGES. ALL HVAC EQUIPMENT TO BE ADEQUATELY SUPPORTED AT REGULAR INTERVALS WITH SUITABLE THREADED ROD AND ANGLE BAR AS PER SABS 0193
 - ALL DUCTWORK JOINTS MUST BE PROPERLY SEALED AND AIRTIGHT.
 - ALL DOORS TO TOILETS WITH MECHANICAL VENTILATION TO BE UNDERCUT MINIMUM 20mm.
 - THE HVAC CONTRACTOR TO WIRE BETWEEN THE HVAC EQUIPMENT AND HVAC DB OR ISOLATOR.
 - ALL ARTIFICIAL VENTILATION SYSTEMS MUST NOT EMIT A NOISE LEVEL OF WHICH CAUSE THE AMBIENT NOISE LEVEL TO EXCEED 50DBA MEASURED AT THE BOUNDARY OF PROPERTY.
 - ALL EQUIPMENT MUST BE MOUNTED ON ANTI-VIBRATION MOUNTINGS.
 - AC UNITS FINAL POSITIONS TO BE INSTALLED TO ARCHITECT'S DIMENSIONS AS PART OF CO-ORDINATION.
 - ACCESS HATCHES POSITIONS TO ARCHITECT'S CO-ORDINATED CEILING LAYOUT.
 - FINAL DIFFUSER POSITIONS AS PER ARCHITECT'S CO-ORDINATED CEILING LAYOUT - COLOUR TO ARCHITECT'S SPECIFICATION.
 - FINAL WEATHER LOUVRE POSITIONS AS PER ARCHITECT'S ELEVATION DRAWINGS COLOUR TO ARCHITECT'S SPECIFICATION.
 - ALL FIRE DAMPERS MUST BE 350mm LONG ELECTROVENT OR EQUAL AND APPROVED.
 - ALL WASHABLE FILTERS MUST BE INSTALLED WITH PLEATS IN THE VERTICAL.
 - SOUND ATTENUATORS MUST HAVE AIR GAPS WITH LENGTHS AS INDICATED.
 - ALL GRILLES & WEATHER LOUVRE SIZES... INDICATED AS CLEAR OPENING SIZE...

- ### NOTES TO BUILDER:
- BUILDER TO PROVIDE PENETRATIONS THROUGH CONCRETE SLABS & BRICK WALLS FOR HVAC EQUIPMENT AND MAKE GOOD AFTER INSTALLATION OF HVAC EQUIPMENT.
 - FIRE STOPPING & SEALING OF ALL DUCT & PIPE ENTRIES TO ARCHITECT'S DETAIL.
 - ALL WEATHER LOUVRE PENETRATIONS THROUGH WALLS MUST BE COMPLETE WITH 25mm TIMBER FRAME FOR THE SCREW FIXING OF WEATHER LOUVRES & GRILLES.
 - DOOR GRILLES - 400x300 (UNLESS NOTED OTHERWISE) SUPPLIED BY AIR-CONDITIONING CONTRACTOR AND CUT AND FITTED - BY BUILDER.
- ### NOTES TO ELECTRICAL CONTRACTOR:
- PROVIDE POWER SUPPLY TO ALL HVAC DB'S & ISOLATORS AS INDICATED ON DRAWING COMPLETE WITH CONDUITS, DRAW-WIRES & JUNCTION BOXES.
 - ELECTRICAL POWER SUPPLIES & ISOLATORS TO BE PROVIDED WITHIN A METER OF HVAC EQUIPMENT.
 - ISOLATORS TO FAN COIL UNITS AND FANS TO BE IN CEILING SPACE WITHIN A METER OF HVAC EQUIPMENT.
- ### TO PLUMBING SUB-CONTRACTOR:
- PLUMBER TO PROVIDE TRAPS IN CEILING CONNECTED TO SEWER SYSTEM FOR CONDENSATE DRAINS - REFER TO DETAIL.
 - CONDENSATE DRAINS FROM AC UNITS TO A TRAP IN CEILING BY AC CONTRACTOR
 - CONDENSATE DRAIN PIPES TO FOLLOW THE SHORTEST POSSIBLE ROUTE AS DETERMINED ON SITE. ACCEPTABLE FALL 1:80 MIN AND SIZES TO BE AS SHOWN ON PLAN LAYOUT.

EQUIPMENT SCHEDULE :

MECHANICAL VENTILATION FANS:

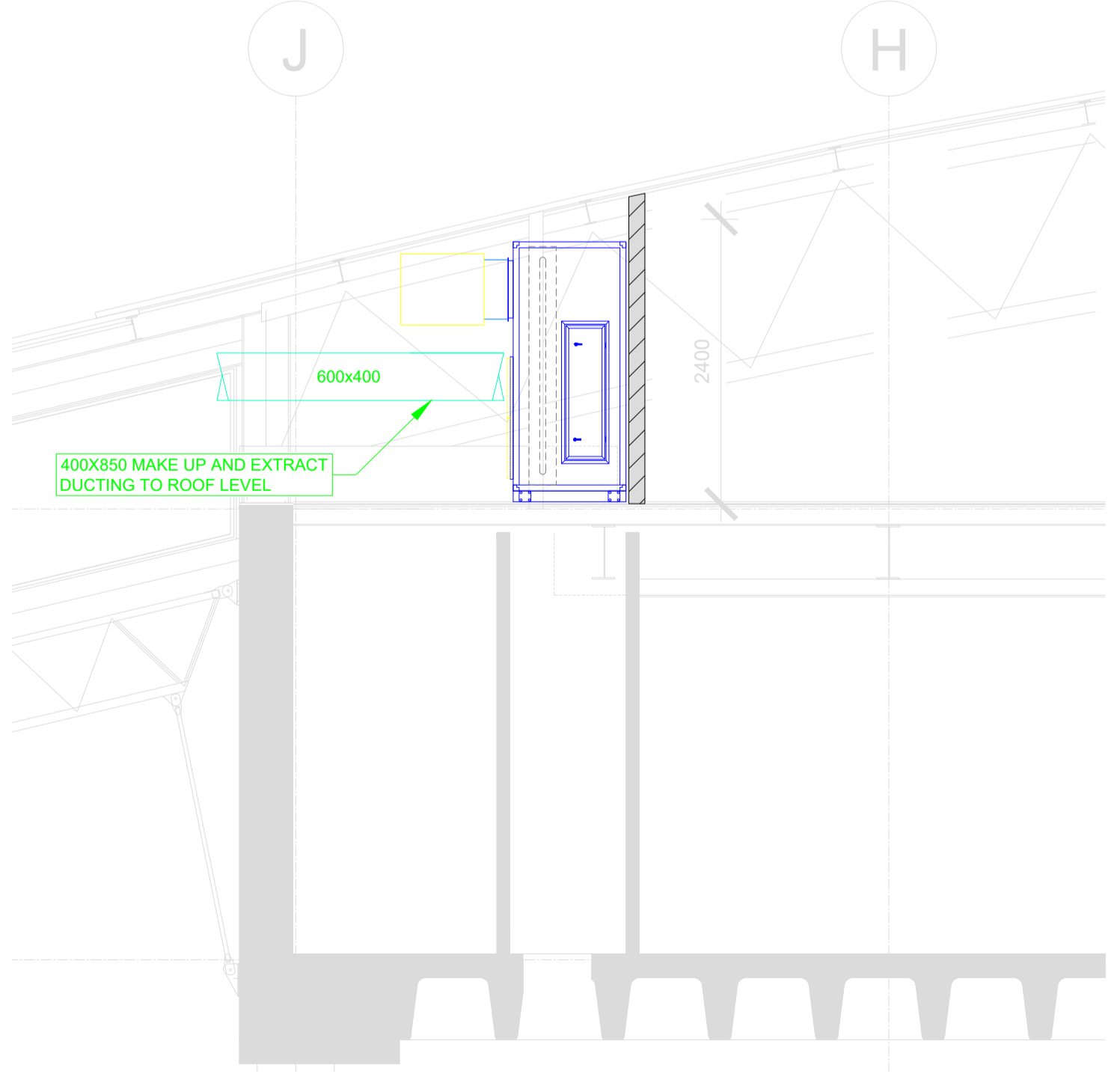
FAN NUMBER	SEF-1
AREA SERVED	NEW LOUNGE
FAN TYPE	AXIAL
AIR QUANTITY	12.6 (m³/s)
DIAMETER SIZE	Ø 1000
STATIC PRESSURE	100 (Pa)
MOTOR OUTPUT	6.0 (kW)
ROTATIONAL SPEED	1440 (rpm)
SOUND ATTENUATORS	: SUCTION 2D
	: DISCHARGE -
POWER SUPPLY (EMERGENCY)	400 / 3Ø / 50
QUANTITY	1

CHILLED WATER AIR HANDLING UNIT

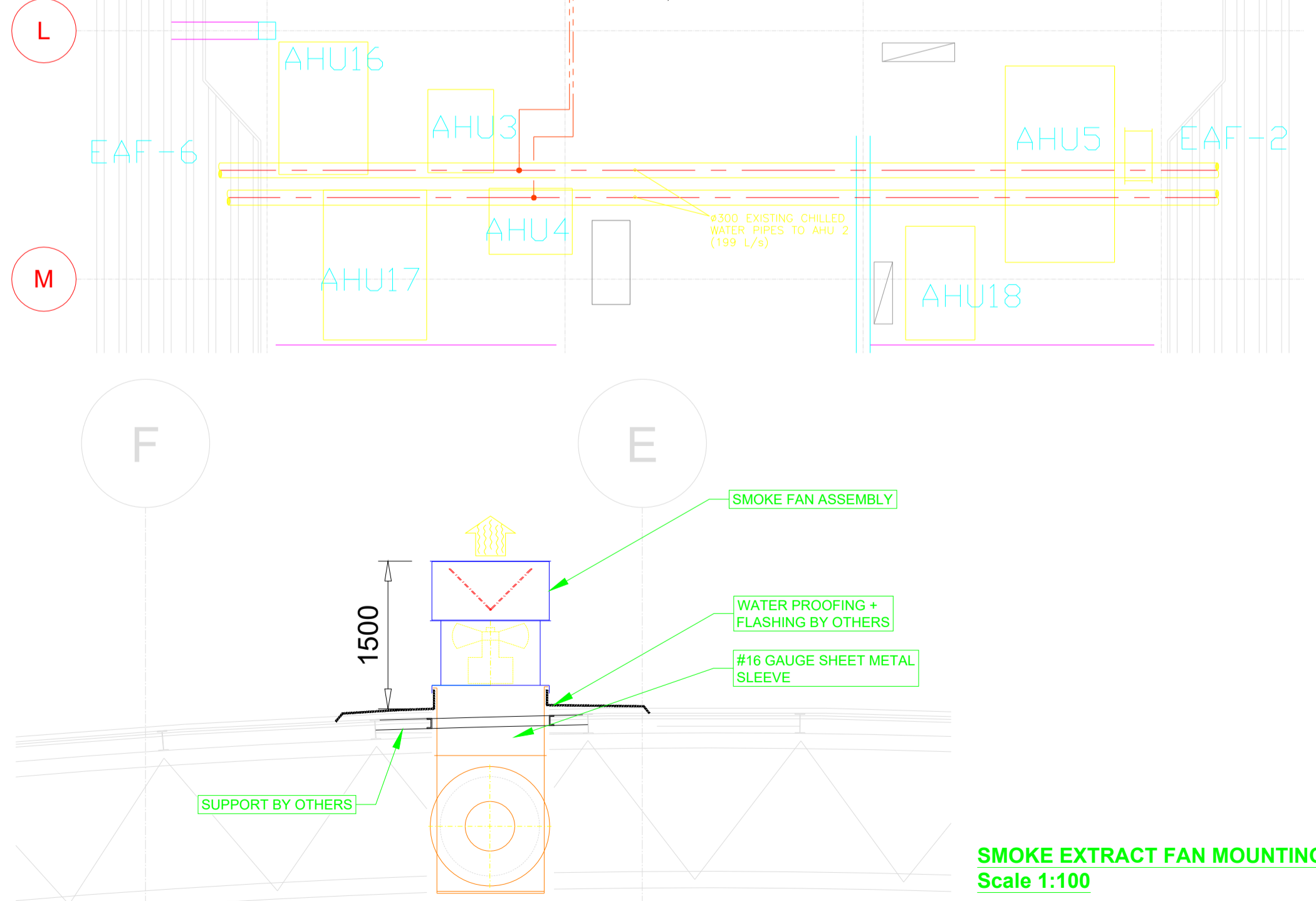
UNIT NUMBER	AHU-M.01
Area Served	Mezzanine Business Lounge
Type	Chilled Water AHU
Total Capacity each kW	65
Total Sensible Capacity kW	55
Air Quantity each supply m³/s	3.08
recirculated m³/s	2.05
outside m³/s	1.03
Cooling Coil Air entering db/wb °C/°C	28.1/18.7
Air leaving db/wb °C/°C	13.2/12.4
Total Heating Capacity Minimum kW	24.1
Sound Attenuators Supply Air mm	1200
Return Air mm	1200
Noise Level	NC45
Ambient Air Temperature (35°C & 8°C)	n/a
Condensing Temperature Maximum °C	n/a
Heating	No

SYMBOL LEGEND

- ISOLATOR AND ELECTRICAL SUPPLY: 380 VOLT/ 3-PHASE.
- INDICATED DB BOARD.
- ELECTRICAL POWER SUPPLY: 220V/SINGLE PHASE.
- DOORS TO BE UNDERCUT BY 20mm
- MAINS WATER SUPPLY: WITH GATE VALVE-SIZE AS NOTED
- DRAIN: NB 100, CONNECTED INTO SEWER SYSTEM.
- FIRE DAMPER - MOTORISED SPRING RETURN
- UNINSULATED DUCTING
- INTERNALLY INSULATED DUCTING
- EXTERNALLY LAGGED DUCTING
- REMOTE ON/OFF SWITCH - 100 x100 WALL BOX WITH 25mm CONDUIT INTO CEILING VOID.
- BMS TEMPERATURE SENSOR
- THERMOSTAT (MASTER DIFFUSER)



SECTION A-A
Scale 1:100



SMOKE EXTRACT FAN MOUNTING DETAILS.
Scale 1:100

AIRVENT
CENTRAL PLANT SOLUTIONS

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DWG NO: CBL-18-07-30-2	SCALE: 1:100 A1
REV NO: AS BUILT	DATE: 18-12-06
APPROVED BY:	DRAWN BY: MCL
APPROVAL DATE:	DESIGN BY:

AV DRAWING STATUS	FIRST ISSUE	REV
FOR APPROVAL		
FOR CONSTRUCTION		

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PROJECT:
DRAWING:

INTERNATIONAL DEPARTURE TERMINAL

CENTRAL BUSINESS LOUNGE

MEZZANINE FLOOR PLAN HVAC LAYOUT

