



AC & FAN SCHEDULE (G)									
REF	NO.	DESCRIPTION	MODEL	COOLING CAPACITY	AIR FLOW	ESP	WEIGHT	RATED CURRENT	MOUNTING POSITION
ODU-4	1	"LG MULTI V5" VRF OUTDOOR UNIT - HEAT PUMP	ARUM200LTE5	56 kW	-	-	330 kg	3Ph, 400V, 50Hz, 49A	ROOF - SUPPORT REQUIRED / BALCONY - PLINTH REQUIRED
IDU-1	2	"LG MULTI V5" VRF INDOOR UNIT - MID-WALL	ARNU07GSJN4	2.2 kW	-	-	10 kg	1Ph, 230V, 50Hz, 0.1A	WALL
IDU-4	1	"LG MULTI V5" VRF INDOOR UNIT - MID-WALL	ARNU18GSKN4	5.6 kW	-	-	15 kg	1Ph, 230V, 50Hz, 0.2A	WALL
IDU-6	2	"LG MULTI V5" VRF INDOOR UNIT - MID-WALL	ARNU36GSVA4	10.4 kW	-	-	20 kg	1Ph, 230V, 50Hz, 0.4A	WALL
IDU-7	2	"LG MULTI V5" VRF INDOOR UNIT - CEILING CASSETTE	ARNU07GTRC4	2.2 kW	-	-	15 kg	1Ph, 230V, 50Hz, 0.1A	SOFFIT / TRUSS
IDU-8	1	"LG MULTI V5" VRF INDOOR UNIT - CEILING CASSETTE	ARNU09GTRC4	2.8 kW	-	-	15 kg	1Ph, 230V, 50Hz, 0.1A	SOFFIT / TRUSS
IDU-9	1	"LG MULTI V5" VRF INDOOR UNIT - CEILING CASSETTE	ARNU15GTQC4	4.5 kW	-	-	20 kg	1Ph, 230V, 50Hz, 0.2A	SOFFIT / TRUSS
AHU-1	1	AIR HANDLING UNIT - VERTICAL	-	56.2 kW	3320 l/s	250 Pa	800 kg	3Ph, 400V, 50Hz, 10A	GROUND - PLINTH REQUIRED
AHU-2	1	AIR HANDLING UNIT - HORIZONTAL	-	61.6 kW	3000 l/s	250 Pa	800 kg	3Ph, 400V, 50Hz, 10A	CEILING VOID - SUPPORT REQUIRED
EEV-1	1	"LG MULTI V5" VRF ELECTRONIC EXPANSION VALVE	PRLK096A0	56.3 kW	-	-	10 kg	-	ON UNIT
EEV-2	1	"LG MULTI V5" VRF ELECTRONIC EXPANSION VALVE	PRLK396A0	112.5 kW	-	-	10 kg	-	ON UNIT
SU-2	1	SPLIT UNIT - MID-WALL	M38AKH	9.8 kW	-	-	75 kg (Out) + 20 kg (Ind)	1Ph, 230V, 50Hz, 17A	WALL / WALL
SF-1	1	"SYSTEMAIR" SUPPLY AIR FAN - CIRCULAR IN-LINE FAN	Prio Silent XP 150EC	-	90-145 l/s	200 Pa	5 kg	1Ph, 230V, 50Hz, 1A	SOFFIT / TRUSS
EF-1	4	"XPELAIR" CEILING MOUNTED EXTRACTOR FAN	PX9	-	333 l/s	-	5 kg	1Ph, 230V, 50Hz, 0.2A	CEILING
EF-2	1	"XPELAIR" WINDOW MOUNTED EXTRACTOR FAN	GX9C	-	145 l/s	-	5 kg	1Ph, 230V, 50Hz, 0.2A	WINDOW
EF-3	3	"XPELAIR" WINDOW MOUNTED EXTRACTOR FAN	GX9	-	171 l/s	-	5 kg	1Ph, 230V, 50Hz, 0.2A	WINDOW
EF-4	1	"XPELAIR" WINDOW MOUNTED EXTRACTOR FAN	GX12	-	303 l/s	_	10 ka	1Ph, 230V, 50Hz, 0.4A	WINDOW

AIR DISTRIBUTION EQUIPMENT SCHEDULE (G)					
REF	NO.	DESCRIPTION	SIZE	MODEL	COMMENTS
SG-1	2	"TROX" SUPPLY, DOUBLE DEFLECTION GRILLE C/W PLENUM & O.B.D.	200x200	AT	
SG-3	2	"TROX" SUPPLY, DOUBLE DEFLECTION GRILLE C/W PLENUM & O.B.D.	400x250	AT	
SG-5	7	"TROX" SUPPLY, DOUBLE DEFLECTION GRILLE C/W PLENUM & O.B.D.	850x250	AT	
SD-1	4	"TROX" FRESH AIR DISC VALVE	200ø	Z-LVS-200	Ø200mm SPIGOT/DUCT/FLEX
TG-1	2	DOUBLE SIDED AUCOUSTIC TRANSFER GRILLE	500x1000	-	SIZE TO BE CONFIRMED ON SITE
WL-3	1	ALUMINIUM WEATHER LOUVRE C/W W.M.S	1000x1000	AWR	
ESG-1	12	EXISTING SUPPLY GRILLE. TO BE CLEANED AND RE-USED.	450x250	AT	Ø250mm SPIGOT/DUCT/FLEX
ERG-1	6	EXISTING RETURN GRILLE. TO BE CLEANED AND RE-USED.	700x700	-	Ø560mm SPIGOT/DUCT/FLEX
ERG-2	2	EXISTING RETURN GRILLE. TO BE CLEANED AND RE-USED.	500x1000	AT	

	DUCT ACCESSORY SCHEDULE (G)				
REF	NO.	DESCRIPTION	SIZE		
ATT-3	1	RECTANGULAR SOUND ATTENUATOR	600x600x1500L		
ATT-4	1	RECTANGULAR SOUND ATTENUATOR	700x700x1500L		
ATT-5	1	RECTANGULAR SOUND ATTENUATOR	1000x400x1500L		
BD-2	3	BALANCING DAMPER	300x250 (TBC)		
BD-4	1	BALANCING DAMPER	400x400		
BD-5	1	BALANCING DAMPER	500x350		
BD-6	1	BALANCING DAMPER	1000x400		
BD-7	1	BALANCING DAMPER	1000x1000		

CONTROLLER SCHEDULE (G)						
REF.	NO.	DESCRIPTION				
C1	12	LG STANDARD WALL CONTROLLER				
C2	1	LG CENTRAL CONTROLLER - POWER SUPPLY WITH ISOLATOR REQUIRED. 1Ph, 0.1A				



LIST OF REVISIONS

COLOUR LEGEND

CONDENSATE DRAINAGE

ELECTRICAL LEGEND

1PH POWER SUPPLY AND ISOLATOR. TO BE WEATHER PROOF IF EXPOSED TO THE ELEMENTS. REQUIREMENTS AS PER EQUIPMENT SCHEDULES.

3PH POWER SUPPLY AND ISOLATOR. TO BE WEATHER PROOF IF EXPOSED TO THE ELEMENTS. REQUIREMENTS AS PER

NOTES:

1. ALL FRESH AIR & EXTRACTION, INCLUDING AIR HANDLING UNITS, TO BE CONNECTED TO THE FIRE SIGNAL AND AUTOMATICALLY SHUT DOWN IN THE EVENT OF A FIRE.

2. ALL INDEPENDENT VENTILATION FANS (EXTRACT AND FRESH AIR) TO BE CONNECTED VIA TIMERS. TIMES TO BE CONFIRMED BY ENGINEER PRIOR TO SETTING.

3. ALL DUCTING SIZES SHOWN ARE SHEET-METAL SIZES. DUCTING TO BE MANUFACTURED ACCORDING TO SMACNA, SABS & ISO STANDARDS.

4. ALL A/C DUCTWORK (SUPPLY & RETURN) TO BE EXTERNALLY INSULATED WITH 15MM THERMAFLEX (POLYETHYLENE FOAM) OR INTERNALLY INSULATED WITH 15MM SONIC LINER (AS INDICATED). FRESH AIR AND EXTRACT AIR DUCT WORK TO BE UNINSULATED. ALL EXPOSED DUCTWORK AND DIFFUSION PRODUCTS TO BE PAINTED TO ARCHITECTS APPROVAL.

5. ALL HANGERS AND BRACKETS TO BE GALVANISED.

6. ALL DUCTWORK TO BE HUNG ON 30x50x1.6 G.S.M CHANNEL TRAPEZE HANGERS WITH

8 RODS.

CHANNEL TRAPEZE HANGERS WITH Ø RODS. RODS

ARE TO BE CUT SHORT BEYOND THE DUCT HANGER TO PREVENT DAMAGE TO THE CEILING TILES WHEN LIFTED. THE ENDS ARE TO BE COLD GALVANISED.

7. ALL GRILLES AND SUPPLY AIR DIFFUSERS ARE TO BE

SECRET FIXINGS.

8. ALL WEATHER LOUVRES SHALL HAVE COUNTERSUNK FRAMES AND PHILLIPS HEAD COUNTERSUNK SCREWS.

9. THE MAXIMUM LENGTH OF FLEXIBLE DUCTING IS TO BE

1500MM.

10. ALL PIPEWORK CONNECTIONS TO EQUIPMENT MUST BE WITH FLANGES.

11. REFRIGERANT PIPES MUST BE INSULATED WITH

ARMAFLEX. INSULATION TAPE (LASSO TAPE) MUST BE OF THE ARMAFLEX TYPE, AS NO DUCT TAPE WILL BE ACCEPTED. ALL PIPEWORK BE RUN NEATLY IN CABLE TRAYS.

PREVENT CONDENSATION. ALL DRAIN PIPES TO HAVE A TRAP BEFORE CONNECTING TO THE VENT/STACK PIPES. BY HVAC CONTRACTOR.

13. ALL ROUTING AND DIMENSIONS TO BE CONFIRMED ON

14. ALL MECHANICAL EQUIPMENT TO HAVE POWER SUPPLIES AND ISOLATORS NOT MORE THAN 1.5m AWAY FROM EQUIPMENT'S ELECTRICAL TERMINAL BOX. ANY ISOLATOR EXPOSED TO THE ELEMENTS MUST BE WEATHERPROOF. REFER TO SCHEDULES FOR

SITE PRIOR TO INSTALLATION.

RUNNING LOADS.

12. ALL A/C CONDENSATE DRAIN PIPES TO BE CONNECTED TO THE NEAREST DRAIN POINT. MAIN PIPE LINE TO BE Ø50mm WITH Ø32mm CONNECTION TO THE INDIVIDUAL INDOOR UNITS. ALL PIPING TO HAVE A FALL OF 1:80. ALL DRAIN PIPING TO BE THERMAFLEX INSULATED TO

EQUIPMENT SCHEDULES.

EXTRACT AIR

AC SUPPLY AIR / LIQUID PIPING RETURN AIR / GAS PIPING

DESCRIPTION

NO. DATE

I0 19/08/22 Issued for Information

I1 26/08/22 Issued for Information / Approval I2 04/10/22 Issued for AMAFA Submission



DRAWING INFORMATION

HVAC Layout - Ground Floor

LSG-2204-HVAC-100

Museum

DRAWING TITLE:

DRAWING SCALE: As indicated DRAWING NUMBER: