

DIFFUSER SCHEDULE							
REF	LOCATION	AREA SERVED	MODEL	OVERALL SIZE (mm)	QTY	DUTY (%)	COMMENTS
SD1D	GROUND FLOOR	PROCESSOR ROOM	DG4 LOUVER FACED	300 x 300	1	12	
SD2D	GROUND FLOOR	STAFF DINING ROOM	DG4 LOUVER FACED	450 x 450	1	72	
SD3D	GROUND FLOOR	STAFF DINING ROOM	DG4 LOUVER FACED	450 x 450	1	72	
SD4D	GROUND FLOOR	CASH OFFICE	DG4 LOUVER FACED	300 x 300	1	28	
SD5D	GROUND FLOOR	MANAGERS OFFICE	DG4 LOUVER FACED	300 x 300	1	12	
SD6D	GROUND FLOOR	MEETING ROOM	DG4 LOUVER FACED	300 x 300	1	38	

1. Schedule to be read in conjunction with the project ductwork drawings and acoustic report.
2. Plenum boxes to be side entry unless others wise noted.
3. Ductwork to connect to grilles with maximum of 300mm of flexible ductwork.
4. All Grilles and Diffusers are based on GILBERTS BLACKPOOL range.

GRILLE SCHEDULE							
REF	LOCATION	AREA SERVED	MODEL	OVERALL SIZE (mm)	QTY	DUTY (H)	COMMENTS
EG1D	GROUND FLOOR	STAFF DINING ROOM	EGGRATE (RC)	450 x 450	1	80	
EG2D	GROUND FLOOR	UNISEX WC	EGGRATE (RC)	300 x 300	1	52	
EG3D	GROUND FLOOR	ACCESS WC	EGGRATE (RC)	300 x 300	1	24	
EG4D	GROUND FLOOR	SHOWER ROOM	EGGRATE (RC)	300 x 300	1	38	
EG1CT	GROUND FLOOR	CUSTOMER WC	EGGRATE (RC)	450 x 450	1	38	

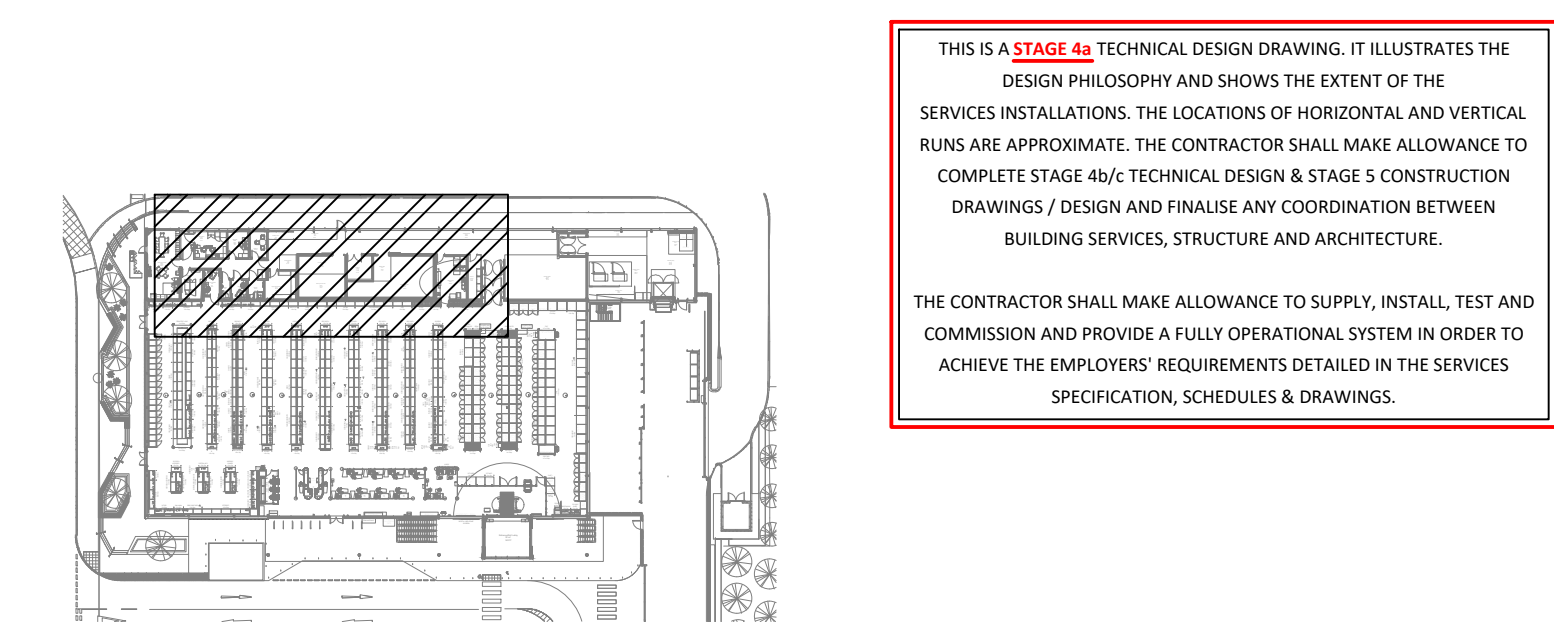
1. Schedule to be read in conjunction with the project ductwork drawings and acoustic report.
2. Plenum boxes to be side entry unless others wise noted.
3. Ductwork to connect to grilles with maximum of 300mm of flexible ductwork.
4. All Grilles and Diffusers are based on GILBERTS BLACKPOOL range.

LOUVER SCHEDULE							
REF	LOCATION	UNIT SERVED	AIR FLOW (l/s)	FREE AREA (m ²)	FACE VELOCITY (m/s)	WIDTH / HEIGHT (mm)	MAX PRESSURE DROP (Pa)
WL01	BOH	HRU/D	232	0.2	1.39	450 x 450	<25
WL02	BOH	HRU/D	232	0.2	1.39	450 x 450	<25
WL04	BOH	XF1/B	780	0.56	1.39	750 x 750	<25

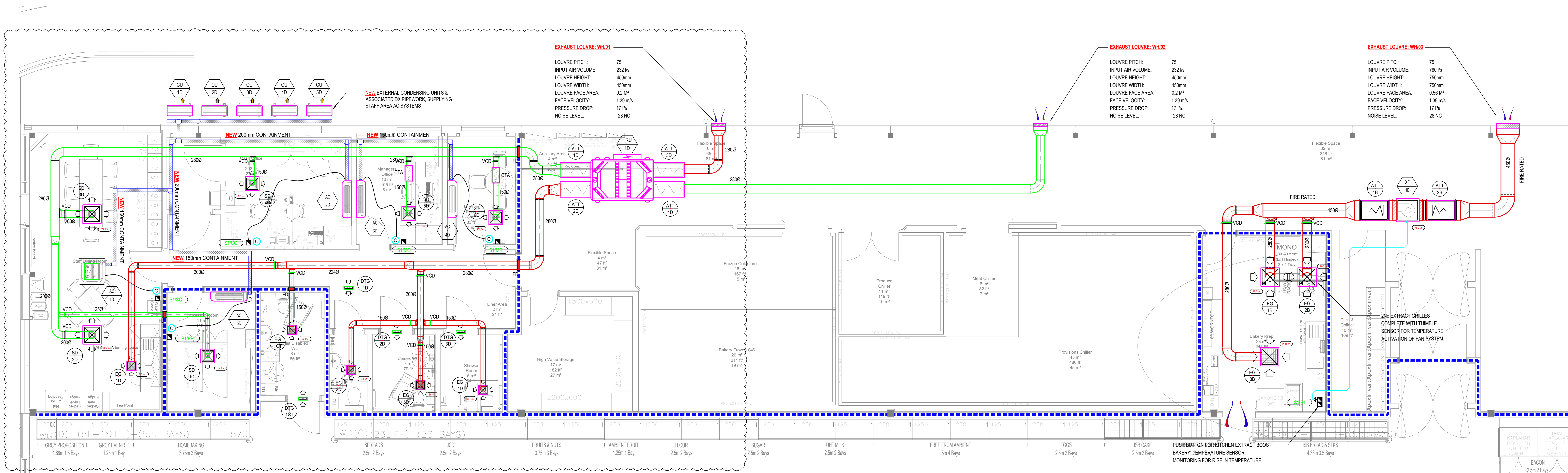
1. Schedule to be read in conjunction with the project ductwork drawings and acoustic report.
2. Plenum boxes to be rear entry unless others wise noted.
3. All Louvres are based on GILBERTS BLACKPOOL range.

MVHR UNIT SCHEDULE																				
REF	LOCATION	AREA SERVED	MODEL / TYPE	QTY	REQUIRED LTHW HEATING DUTY (kW)	REQUIRED ELECTRIC HEATING DUTY (kW)	OUTSIDE AIR TEMP (°C)	SUPPLY AIR TEMP (°C)	RETURN AIR TEMP (°C)	SUPPLY AIR (l/s)	EXTRACT AIR (l/s)	FRESH AIR (l/s)	PRESSURE DROP SUPPLY (Pa)	PRESSURE DROP EXTRACT (Pa)	SFP (w / l/s)	Noise (NR)	ELECTRICAL (kW / V/PH)	LIMITING DIMENSIONS (L x W x H) (mm)	APPROXIMATE WEIGHT (kg)	COMMENTS
HRIU1D	BOH	STAFF AREA	INTERNALLY MOUNTED / BOTTOM ACCESS	1	N/A	4.67	-3	22	19	232	232	232	250	230	TBC	TBC	TBC (400/350)	TBC		

1. Schedule to be read in conjunction with the project ductwork drawings and acoustic report.
2. Manufacturer shall re-confirm the electrical details at the time of order.
3. Packaged controls shall be provided with interface to TREND.
4. Controls to have sufficient spare ways to accept minimum of 4 number space sensors.
5. MVHR based on HELIOS range.

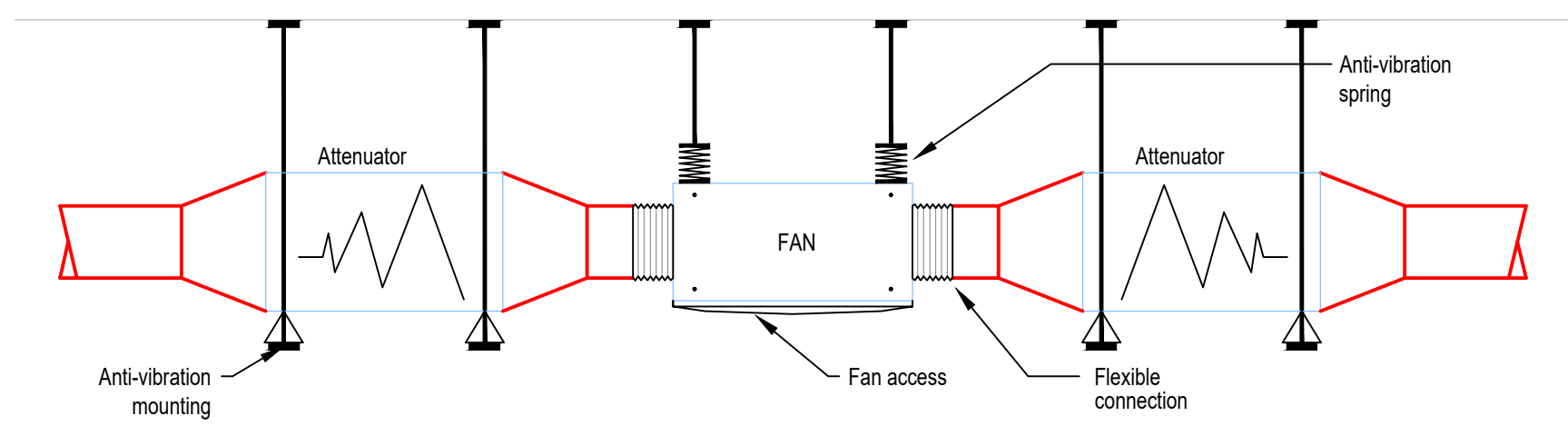


SITE PLAN KEY



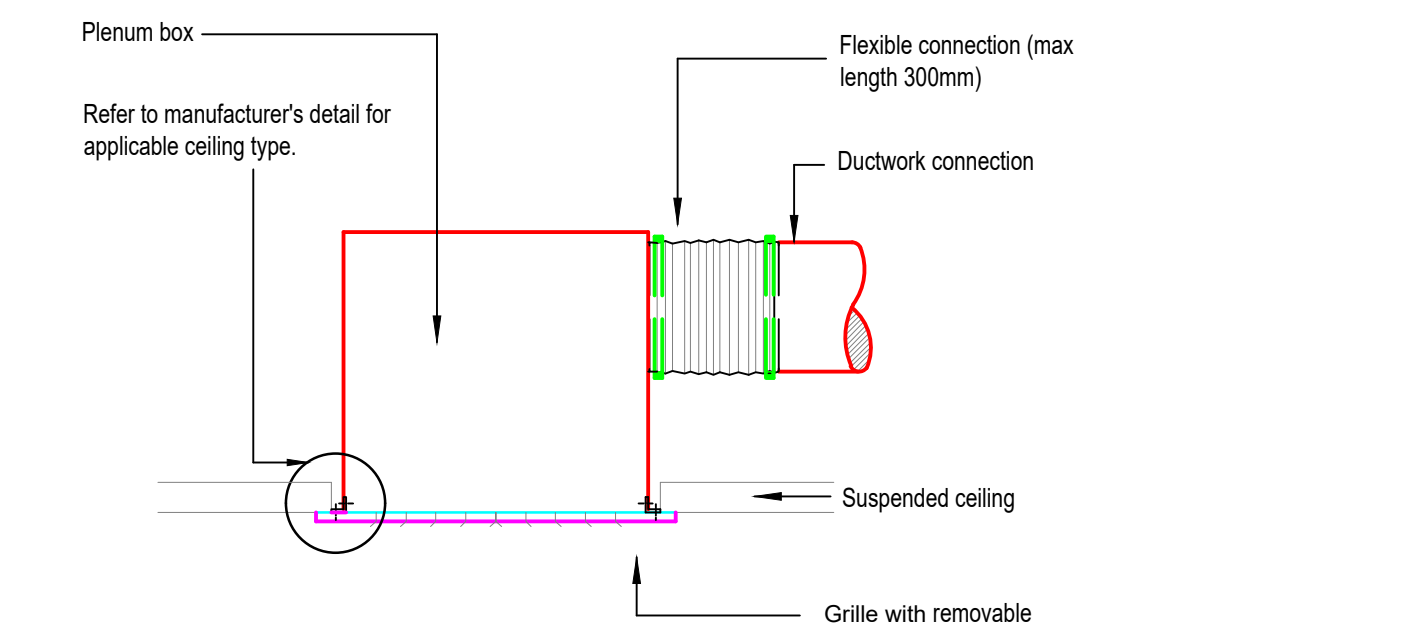
V PROPOSED BOH PLAN

1 Ventilation Services Layout



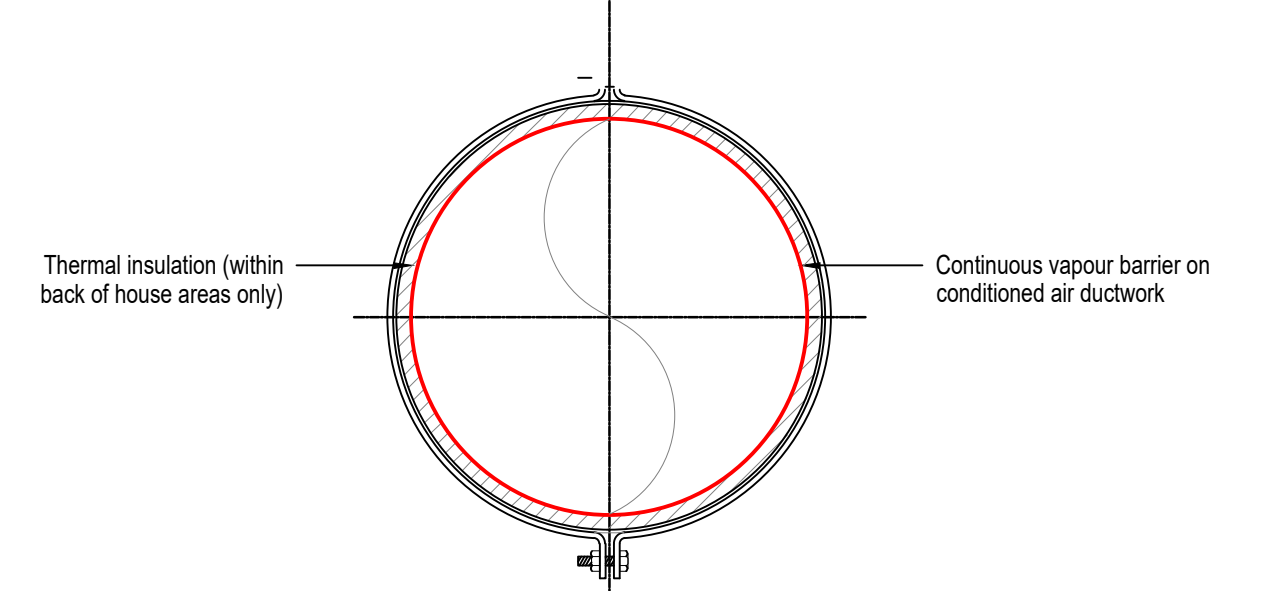
D **DETAIL 1**
1 **FAN ANTI-VIBRATION MOUNTING**

N.T.S.



D **DETAIL 2**
2 **EXTRACT / SUPPLY GRILLE SIDE ENTRY PLENUM BOX**

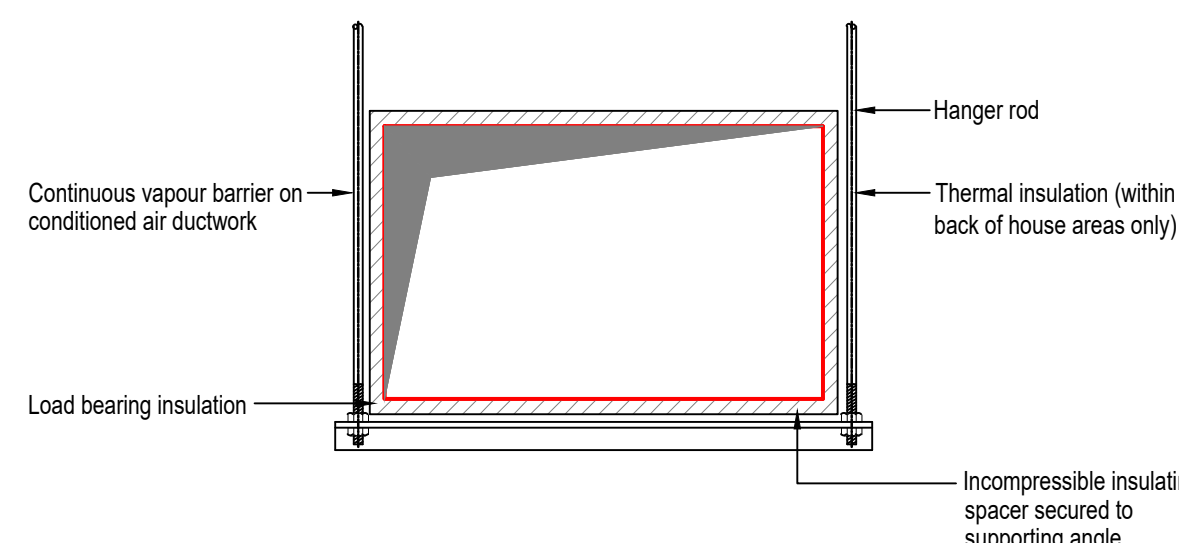
N.T.S.



D **DETAIL 3**

3 **TYPICAL CIRCULAR DUCTWORK IN CEILING SUPPORT DETAIL (HORIZONTAL)**

N.T.S.



D **DETAIL 4**
4 **TYPICAL RECTANGULAR DUCTWORK IN CEILING SUPPORT DETAIL (HORIZONTAL)**

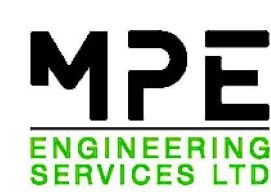
N.T.S.

- ## VENTILATION NOTES
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL SPECIFICATION AND ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
 6. THIS DRAWING IS FOR TENDER PURPOSES ONLY. DETAILED DESIGN AND INSTALLATION DRAWINGS MUST BE PROVIDED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION.
 7. ALL DUCTWORK TO BE IN MAINTENANCE WITH DW144
 8. ALL BENDS TO HAVE TURNING VANES.
 9. SEE SCHEDULES FOR DETAILS OF GRILLES, DIFFUSERS, ATTENUATORS AND FANS AND ANCILLARY EQUIPMENT.
 10. SETS SHOWN ON SCALE AS COORDINATION DETAIL ONLY. THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY SETS ON THE DUCTWORK SYSTEM.
 11. DUCTWORK ROUTES ARE SHOWN ON THIS DRAWING FOR STACK AS COORDINATION PURPOSES ONLY. FINAL ROUTES SHALL BE DETERMINED ON SITE.
 12. THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR ALL SECONDARY STEELWORK NECESSARY FOR SERVICES SUPPORTS ETC.
 13. ALL FLEXIBLE DUCTWORK SHALL BE NO MORE THAN 300mm IN LENGTH AND BE SUITABLY INSULATED TO MATCH THE MAIN SYSTEMS.
 14. ALL FIRE AND FIRE / SMOKE DAMPERS TO BE CW CLASS DOORS EITHER SIDE.
 15. THE MAIN CONTRACTOR SHALL PROVIDE ACCESS PANELS WITHIN THE CEILING CONSTRUCTION TO ALLOW ACCESS FOR COMBIMASS AND VENTILATION SERVICES TO YDS, FDS, FSDS, SVS ETC.
 16. ALL EXTERNAL LOUVRES TO BE RAL COLOUR IN ACCORDANCE WITH ARCHITECTS REQUIREMENTS. EXTERNAL LOUVRES SHALL BE CW BITRENDSH.
 17. MAX PRESSURE DROP FOR LOUVER = 25 pa AT DESIGN / NOISE CRITERIA.
 18. MAX PRESSURE DROP FOR DIFFUSERS AND GRILLES = 20 pa AT DESIGN / NOISE CRITERIA
 19. MAX PRESSURE DROP FOR CROSS TALK ATTENUATION = 15 pa AT DESIGN / NOISE CRITERIA.
 20. MAX PRESSURE DROP FOR MAIN SYSTEM ATTENUATION = 25 pa AT DESIGN / NOISE CRITERIA.
 21. THERMAL INSULATION IS NOT SHOWN FOR CLARITY.
 22. ALL NECESSARY THERMAL INSULATION SHALL BE INCLUDED ON ALL SYSTEMS WHERE HEAT RECOVERY AND OR COOLING IS UTILIZED TO MAXIMIZE EFFICIENCY AND REDUCE CONDENSATION RISK.
 23. ALL COORDINATION OF GRILLES WITHIN SUSPENDED CEILING, WITH LIGHT FITTINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECTURAL TEAM. FINAL RCP LAYOUTS TO BE BY ARCHITECTURAL TEAM.
 24. WHERE DUCT SIZES INDICATED ARE NOT READY AVAILABLE FROM STOCK, THEN THE DUCT USED SHALL BE THE NEXT NEAREST SIZE UP.
 25. ALL DAMPERS SHALL BE MAINTAINED IN THE FULLY CLOSED POSITION UNTIL ALL CONNECTING DUCTWORK HAS COMPLETED. THIS IS TO PREVENT THE INGRESS OF DUST/DEBRIS INTO THE SYSTEM.
 26. ALL VOLUME CONTROL DAMPERS TO BE OPPOSED BLADE TYPE AND SHALL BE MANUFACTURED BY ACTION A TO BE FROM THE AIR SHIELD RANGE AND AERO SEAL TYPE.
 27. FIRE / SMOKE DAMPERS (FSD) ARE TO BE MODE 6 ACTUATOR AS MANUFACTURED BY ACTION A FROM THE SMOKE SHIELD RANGE AND COMPLETE WITH CONTROL PANEL AND INTERVIEWING.
 28. ALL FIRE DAMPERS (FD) ARE TO BE MODE 1 ACTUATOR AS MANUFACTURED BY ACTION A FROM THE SMOKE SHIELD RANGE AND COMPLETE WITH CONTROL PANEL AND INTERVIEWING.
 29. ALL DUCTS THAT PASS THROUGH FLOOR SLABS AND FIRE RATED WALLS SHALL BE COMPLETE WITH SUITABLY RATED FIRE / SMOKE DAMPER.
 30. ALL SHEET METAL DUCTWORK SHALL BE PROVIDED WITH ACCESS DOOR IN COMPLIANCE WITH RECOMMENDATIONS MADE WITHIN HVAC PUBLICATION, "CLEANLINESS OF VENTILATION SYSTEMS" TR17.
 31. ALL POSITIONS OF ACCESS DOORS ARE NOT DETAILED ON THIS DRAWING. ALL POSITIONS OF ACCESS DOORS SHALL BE DETAILED ON THE MECHANICAL SUB CONTRACTORS WORKING DRAWINGS.
 32. FOR THE PURPOSE OF DESIGN 25MM DUCT INSULATION HAS BEEN INCLUDED.
 33. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CONTROL ELEMENTS ARE DESIGNED, INSTALLED AND OPERATED IN ACCORDANCE WITH THE SANIBURS SPECIFICATIONS AND STANDARDS DOCUMENTS 2021.
- FIRE RATED WALL / PARTITION CONSTRUCTION.

C01	15.01.25	UPDATE TO REFLECT STORE PLAN SDG 4 Rev E AND WORKSHOP COMMENTS 17.12.2024	JS	--
P02	05.12.24	UPDATED FOLLOWING BREEAM COMMENTS	JS	--
P01	17.07.24	PRELIMINARY ISSUE	LB	JS
REV	DATE	DESCRIPTION	BY	CK



Client:



Project



Title: MECHANICAL SERVICES
GROUND FLOOR
COLLEAGUE AREAS VENTILATION &
AIR CONDITIONING LAYOUT

Scale at A0:	Date:	Designed:	Drawn:	Design:	JS
1:50	MAY 24	LB	LB	CAD CK:	EN
Drawing No:				Rev:	
XA-0000-2040-RDG-Z12-00-DR-M-0570				C01	

CONTRACT