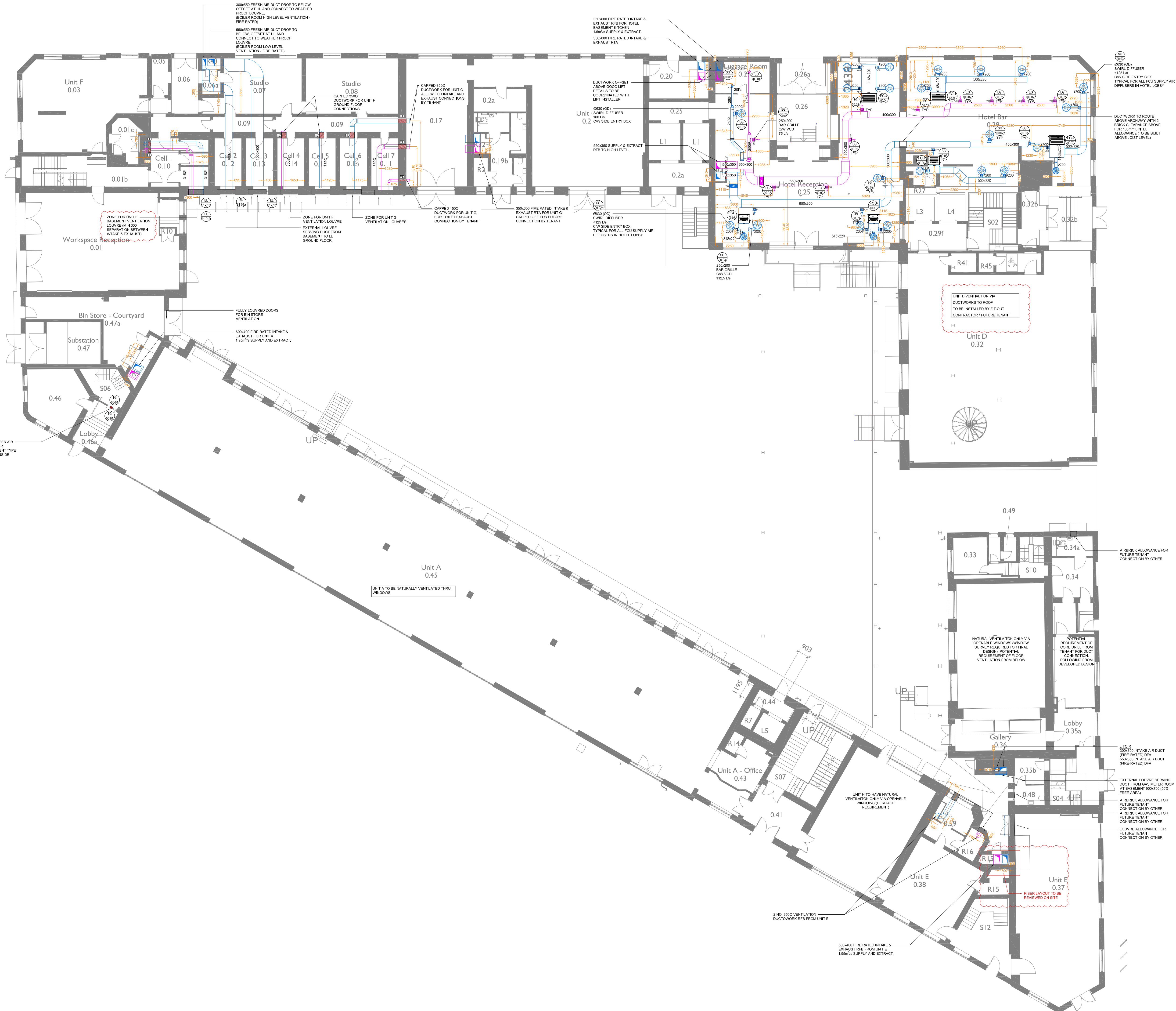




9. CONDENSATE DRAIN PIPework WILL BE REQUIRED IN 21.5mm. THIS IS TO BE SUPPLIED BY THE CONTRACTOR. ALL CONDENSATE PIPework IS TO BE INSULATED WITH A COLD SPACE WEDGE AND HAVE A MINIMUM FALL OF 10 DEGREES.
10. ALL DUCTING WITHIN AN UNHABITED SPACE MUST BE INSULATED IN ACCORDANCE WITH PART 12 OF THE 2018 BUILDING REGULATIONS, FRESH AIR INTAKE AND EXHAUST AIR LEGS ARE TO BE FULLY INSULATED BACK TO THE UNIT.
11. A MINIMUM DISTANCE OF 500 IS REQUIRED BETWEEN EACH SPOOT OFF THE UNIT AND ANY DUCTING FITTING. FLAME BULGE CLOTH SHOULD BE PULLED TAUGHT WITH SMOOTHED ENDS ONLY.
12. PLEASE NOTE TO COMPLY WITH CURRENT BUILDING REGULATIONS MANUAL BOOST SYSTEMS ARE TO BE PROVIDED TO EACH VET AREA. THESE ARE TO BE PROVIDED AND FITTED BY THE CONTRACTOR.
13. SUPPLY AND EXTRACT VALVES SHALL BE COMMISSIONED/ THIMED AT THE GRILL TO ENSURE THE CORRECT FLOW RATE IS ACHIEVED.
14. BETWEEN EACH RISE AND FALL BETWEEN FLOOR LEVELS, ALL MECHANICAL & ELECTRICAL CONTRACTORS SHALL ALLOW FOR OFFSETS DURING INSTALLATION.
15. WORKSPACE OFFICES SUPPLY AND EXTRACT GRILLS SHALL BE FIXED TO THE SIDES OF RISERS WITHIN THE SPACE VIA PINE RATED GRILLS WITH FIRE-RESISTANT DAMPERS.

P05	27.02.25	GA's UPDATED	CC	CW	LM
P04	29.01.25	REVISED PER COMMENTS	CC	CW	LM
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	REVISED GA	JH	CC	LM
P01	18.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	JH	CC	LM
Rev.	Date	Description	By	Chk'd	App'd

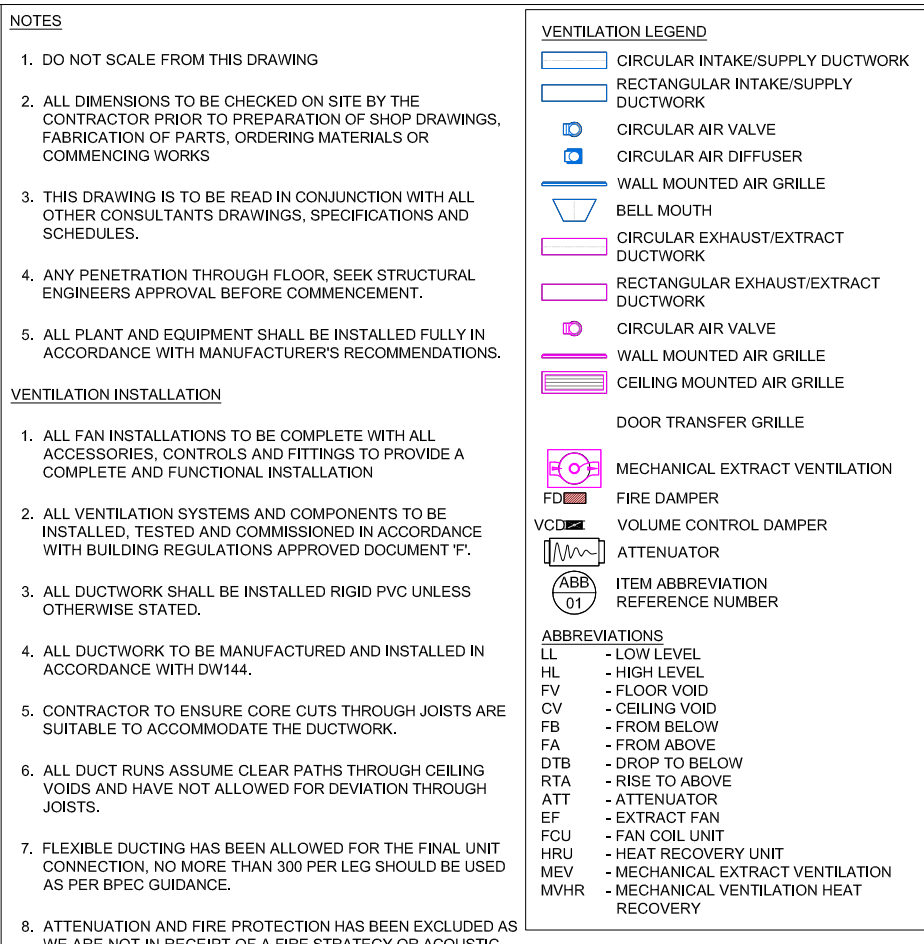


Drawing Title

MECHANICAL SERVICES
VENTILATION LAYOUT
GROUND FLOOR

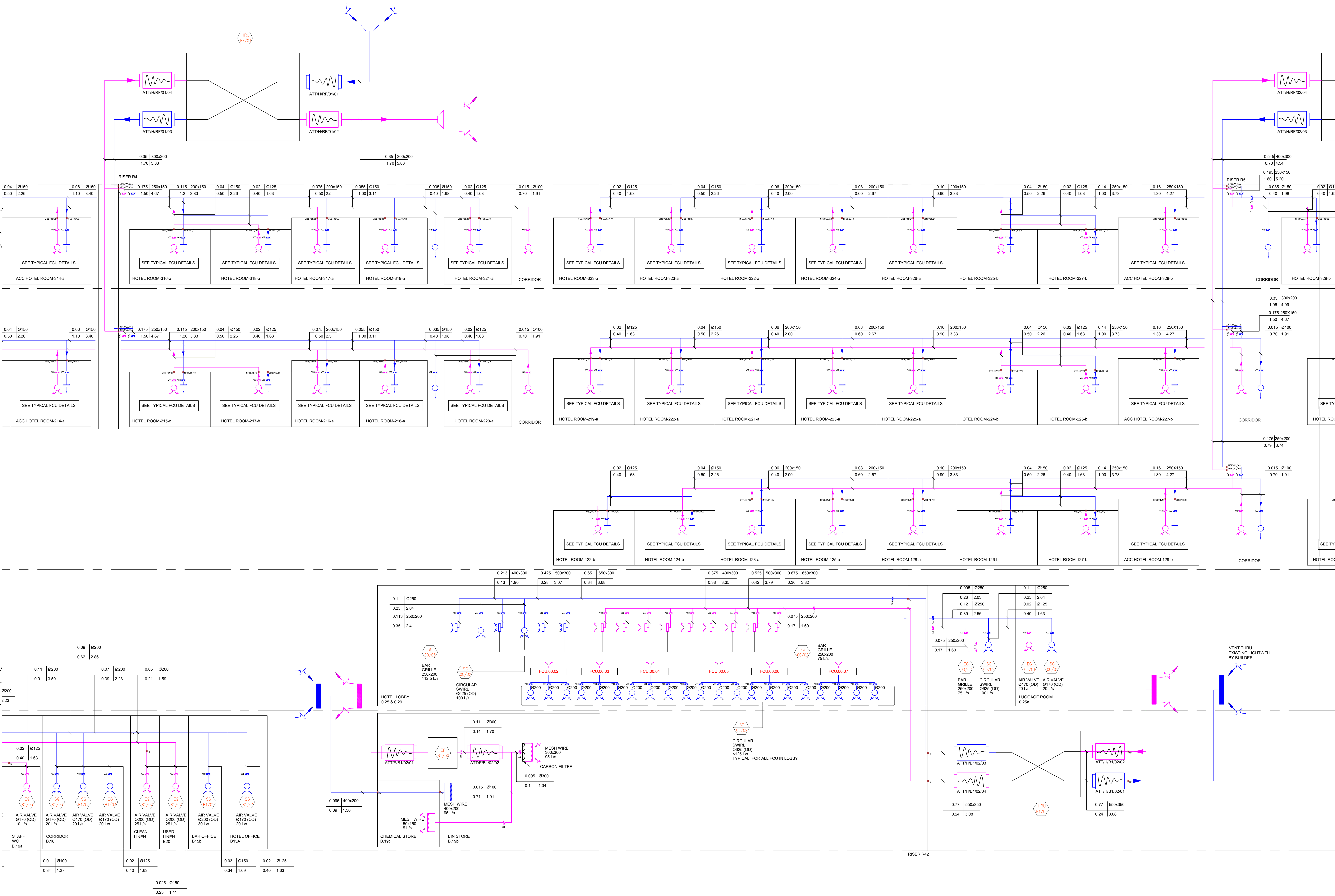
Scale 1:100	Designed CC	Drawn JH	Checked CC	Authorised LM
Original Size -	Date 18.04.24	Date 18.04.24	Date 18.04.24	Date 18.04.24
Drawing Number LRFS-CMB-M-00-XX-DR-5701				Revision P05





100
10
0
Millimetres

FOR CONTINUATION SEE DRAWING LRFS-CMB-M-XX-SC-5702



FOR CONTINUATION SEE DRAWING LRFS-CMB-M-XX-SC-5703

NOTES

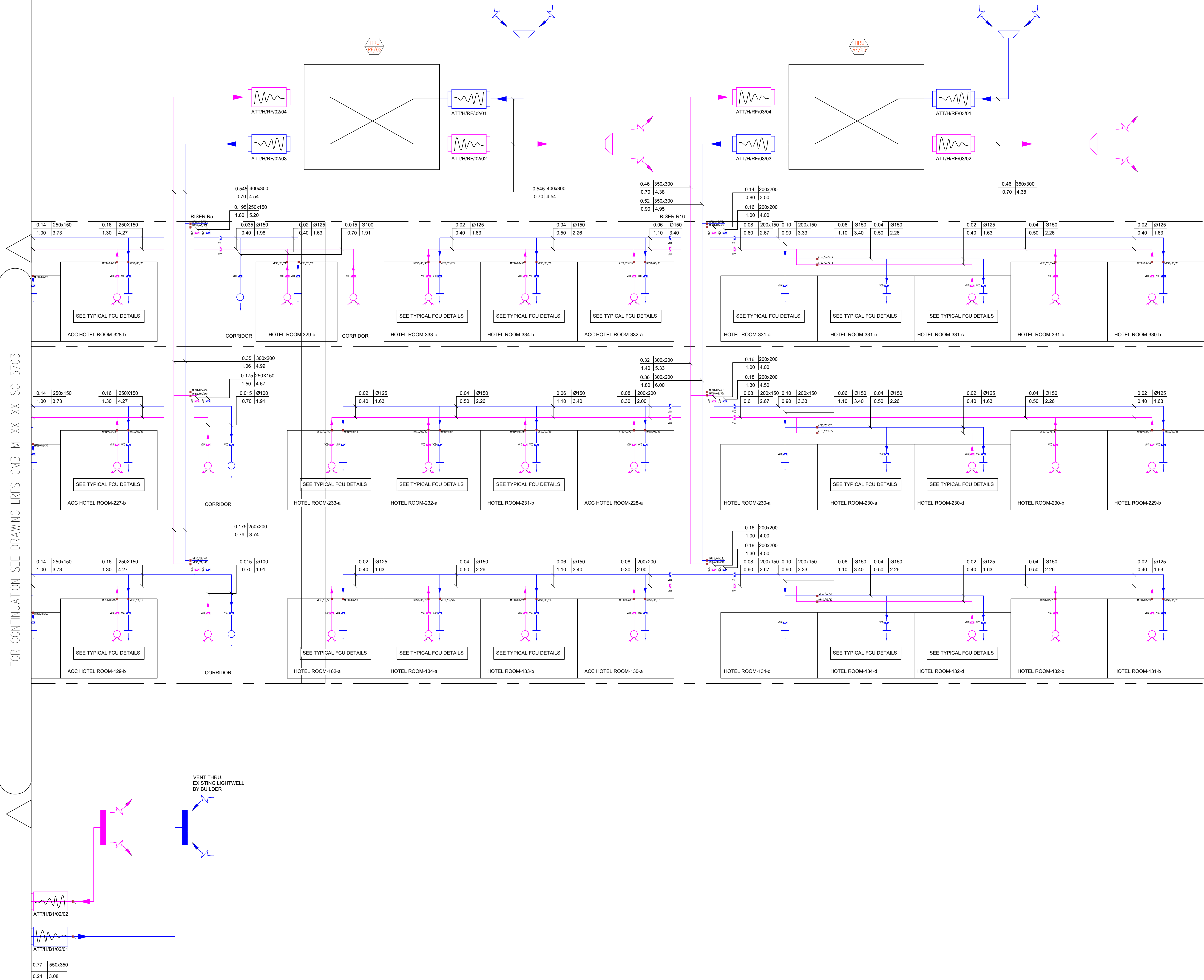
- DO NOT SCALE FROM THIS DRAWING
 - ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION OF PARTS, ORDERING MATERIALS OR COMMENCING WORKS
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS AND SCHEDULES
 - ANY PENETRATION THROUGH FLOOR, SEE: STRUCTURAL ENGINEERS APPROVAL BEFORE COMMENCEMENT
 - ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
- #### VENTILATION INSTALLATION
- ALL FAN INSTALLATIONS TO BE COMPLETE WITH ALL ACCESSORIES, CONTROLS AND FITTINGS TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION
 - ALL VENTILATION SYSTEMS AND COMPONENTS TO BE INSTALLED, TESTED AND COMMISSIONED IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT 'F'
 - ALL DUCTWORK SHALL BE INSTALLED HOT DIP GALVANISED AS PER DW144
 - ALL DUCTWORK TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH DW144
 - CONTRACTOR TO ENSURE CORE CUTS THROUGH CEILING VOIDS AND HAVE NOT ALLOWED FOR DEVIATION THROUGH JOISTS
 - ALL DUCT RUNS ASSUME CLEAR PATHS THROUGH CEILING VOIDS HAS BEEN ALLOWED FOR THE FINAL UNIT CONNECTION, NO MORE THAN 300mm PER LEG SHOULD BE USED AS PER BPEC GUIDANCE
 - ATTENUATION AND FIRE PROTECTION HAS BEEN EXCLUDED AS WE ARE NOT IN RECEIPT OF A FIRE STRATEGY OR ACOUSTIC REPORT AT THIS STAGE
 - CONDENSATE DRAIN PIPEWORK WILL BE REQUIRED IN 21mm, THIS IS TO BE SUPPLIED BY THE CONTRACTOR. ALL CONDENSATE PIPEWORK IS TO BE INSULATED WITHIN A COLD SPACE AND HAVE A MINIMUM FALL OF 10 DEGREES
 - ALL DUCTING WITHIN AN UNHEATED SPACE MUST BE INSULATED IN ACCORDANCE WITH PART 7 OF THE 2019 BUILDING REGULATIONS. FRESH AIR INTAKE AND EXHAUST AIR LEGS ARE TO BE FULLY INSULATED BACK TO THE UNIT
 - A MINIMUM DISTANCE OF 500mm IS REQUIRED BETWEEN EACH BRIGIT OFF THE UNIT AND ANY DUCTWORK FITTING. FLEXIBLE DUCT SHOULD BE PULLED TIGHT WITH SMOOTH BENDS ONLY
 - PLEASE NOTE TO COMPLY WITH CURRENT BUILDING REGULATIONS MANUAL BOOST SWITCHES ARE TO BE PROVIDED TO EACH WET AREA, THESE ARE TO BE PROVIDED AND FITTED BY THE CONTRACTOR
 - SUPPLY AND EXTRACT VALVES SHALL BE COMMISSIONED / TRIMMED AT THE GRILLE TO ENSURE THE CORRECT FLOW RATE IS ACHIEVED
 - BETWEEN EACH RISE AND FALL BETWEEN FLOOR LEVELS, ALL MECHANICAL & ELECTRICAL CONTRACTORS SHALL ALLOW FOR OFFSETS DURING INSTALLATION
 - G4 & F7 FILTRATION SHALL BE UTILISED
 - WORKSPACE OFFICES SUPPLY AND EXTRACT GRILLES SHALL BE FIXED TO THE SIDES OF THE RISERS WITHIN THE SPACE VIA FIRE RATED GRILLES CW FIRE SMOKE DAMPER

LEGEND

- EXTRACT DUCT
- SUPPLY DUCT
- EXTRACT VALVE
- SUPPLY TERMINAL
- VOLUME CONTROL DAMPER
- FIRE DAMPER
- HEAT RECOVERY VENTILATION UNIT
- AIR HANDLING UNIT
- ATTENUATOR
- CTA
- CROSS-TALK ATTENUATOR
- FRESH AIR LOUVER
- EXHAUST AIR LOUVER
- AIR VOLUME
- DUCT DIMENSIONS
- VELOCITY
- PRESSURE DROP

C01		20.01.25		FOR CONSTRUCTION		CC	CW	LM
Rev.	Date	Description				By	Chk'd	App'd
Drawing Suitability							Status	
STAGE 5 - FOR CONSTRUCTION								
Client								
ALLIED LONDON								
Project Title								
LONDON ROAD FIRE STATION								
FIRE STATION, LONDON ROAD, MANCHESTER, M1								
Drawing Title								
MECHANICAL SERVICES								
VENTILATION SERVICES								
SCHEMATICS 2 OF 3								
Scale		Designed		Drawn		Checked		Authorised
N.T.S		CC		KD		CW		LM
Original Size		Date		Date		Date		Date
A0		20.01.25		20.01.25		20.01.25		20.01.25
Drawing Number								Revision
LRFS-CMB-M-XX-SC-5702								C01

100
10
0
Millimetres



NOTES

- DO NOT SCALE FROM THIS DRAWING
 - ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION OF PARTS, ORDERING MATERIALS OR COMMENCING WORKS
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS AND SCHEDULES
 - ANY PENETRATION THROUGH FLOOR, SEEK STRUCTURAL ENGINEERS APPROVAL BEFORE COMMENCEMENT
 - ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
- #### VENTILATION INSTALLATION
- ALL FAN INSTALLATIONS TO BE COMPLETE WITH ALL ACCESSORIES, CONTROLS AND FITTINGS TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION
 - ALL VENTILATION SYSTEMS AND COMPONENTS TO BE INSTALLED, TESTED AND COMMISSIONED IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT 'F'
 - ALL DUCTWORK SHALL BE INSTALLED HOT DIP GALVANISED AS PER DW144
 - ALL DUCTWORK TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH DW144
 - CONTRACTOR TO ENSURE CORE CUTS THROUGH JOISTS ARE SUITABLE TO ACCOMMODATE THE DUCTWORK
 - ALL DUCT RUNS ASSUME CLEAR PATHS THROUGH CEILING VOIDS AND HAVE NOT ALLOWED FOR DEVIATION THROUGH JOISTS
 - FLEXIBLE DUCTING HAS BEEN ALLOWED FOR THE FINAL UNIT CONNECTION, NO MORE THAN 300mm PER LEG SHOULD BE USED AS PER BPEC GUIDANCE
 - ATTENUATION AND FIRE PROTECTION HAS BEEN EXCLUDED AS WE ARE NOT IN RECEIPT OF A FIRE STRATEGY OR ACOUSTIC REPORT AT THIS STAGE
 - CONDENSATE DRAIN PIPEWORK WILL BE REQUIRED IN 21.5mm THIS IS TO BE SUPPLIED BY THE CONTRACTOR. ALL CONDENSATE PIPEWORK IS TO BE INSULATED WITHIN A COLD SPACE AND HAVE A MINIMUM FALL OF 10 DEGREES
 - A MINIMUM DISTANCE OF 500mm IS REQUIRED BETWEEN EACH BRANCH OFF THE UNIT AND ANY DUCTWORK FITTING. FLEXIBLE DUCT SHOULD BE PULLED TAUGHT WITH SMOOTH BENDS ONLY
 - PLEASE NOTE TO COMPLY WITH CURRENT BUILDING REGULATIONS MANUAL BOOST SWITCHES ARE TO BE PROVIDED TO EACH WET AREA, THESE ARE TO BE PROVIDED AND FITTED BY THE CONTRACTOR
 - SUPPLY AND EXTRACT VALVES SHALL BE COMMISSIONED / TRIMMED AT THE GRILLE TO ENSURE THE CORRECT FLOW RATE IS ACHIEVED
 - BETWEEN EACH RISE AND FALL BETWEEN FLOOR LEVELS, ALL MECHANICAL & ELECTRICAL CONTRACTORS SHALL ALLOW FOR OFFSETS DURING INSTALLATION
 - G4 & F7 FILTRATION SHALL BE UTILISED
 - WORKSPACE OFFICES SUPPLY AND EXTRACT GRILLES SHALL BE FIXED TO THE SIDES OF THE RISERS WITHIN THE SPACE VIA FIRE RATED GRILLES CW FIRE/SMOKE DAMPER

LEGEND

- EXTRACT DUCT
- SUPPLY DUCT
- EXTRACT VALVE
- SUPPLY TERMINAL
- VOLUME CONTROL DAMPER
- FIRE DAMPER
- HEAT RECOVERY UNIT
- AIR HANDLING UNIT
- ATTENUATOR
- CTA
- CROSS-TALK ATTENUATOR
- FRESH AIR LOUVER
- EXHAUST AIR LOUVER
- AIR VOLUME
- mm DUCT DIMENSIONS
- m/s VELOCITY
- Pa/m PRESSURE DROP

C01	20.01.25	FOR CONSTRUCTION	CC	CW	LM
Rev.	Date	Description	By	Chk'd	App'd

Drawing Suitability	Status
STAGE 5 - FOR CONSTRUCTION	

Client

ALLIED LONDON

Project Title
LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1

Drawing Title
MECHANICAL SERVICES
VENTILATION SERVICES
SCHEMATICS 3 OF 3

Scale	Designed	Drawn	Checked	Authorised
N.T.S	CC	KD	CW	LM
Original Size	Date	Date	Date	Date
A0	20.01.25	20.01.25	20.01.25	20.01.25

Drawing Number	Revision
LRFS-CMB-M-XX-SC-5703	C01