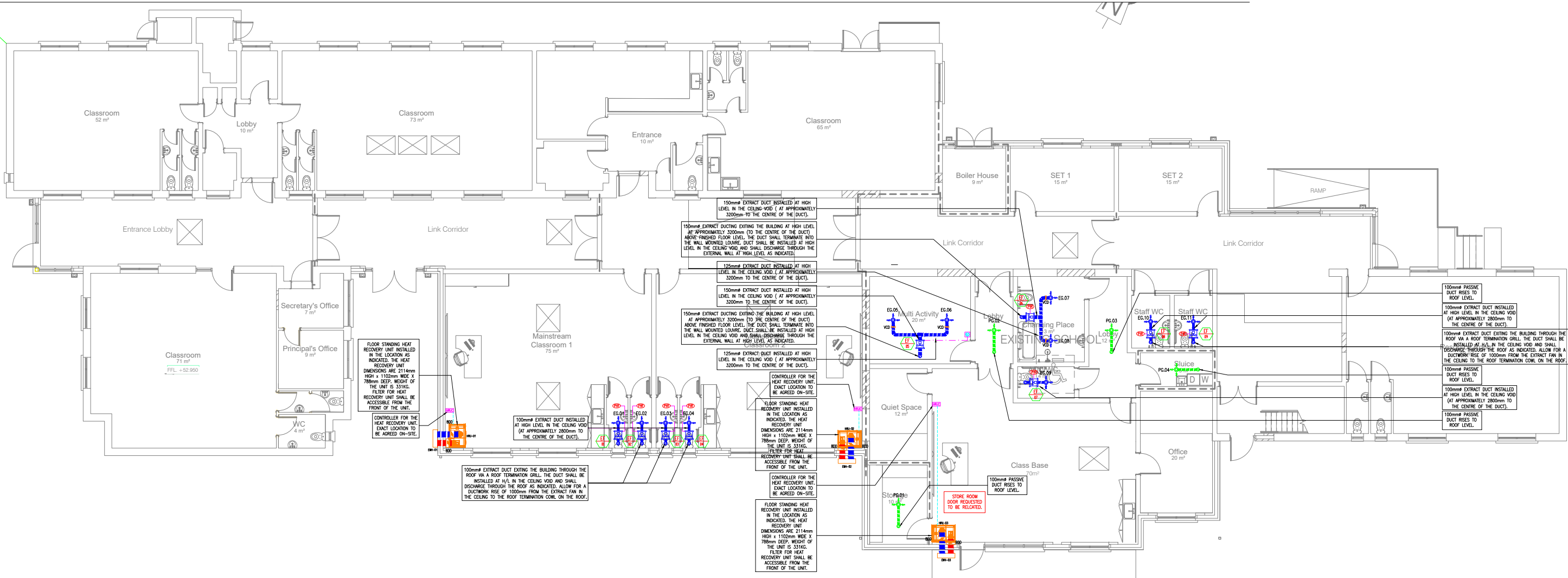




VENTILATION SERVICES LAYOUT (SCALE 1:100)

VENTILATION LEGENDS AND SYMBOLS

	EXTRACT AIR DUCTWORK FOR TOILETS AND GENERAL AREAS INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		EXTRACT FAN (* DENOTES NUMBER)
	PASSIVE AIR DUCTWORK FOR STORES INSTALLED IN THE ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		HEAT RECOVERY UNIT (* DENOTES NUMBER)
	FRESH AIR DUCTWORK TO HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		VOLUME CONTROL BALANCING DAMPER (VCD)
	STALE AIR DUCTWORK FROM HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		H/L HIGH LEVEL
	IN-LINE MOUNTED EXTRACT FAN		L/L LOW LEVEL
	RECESSED EXTRACT AIR GRILL. GRILL RECESSED INTO THE CEILING FROM THE ATTIC SPACE. (* DENOTES NUMBER OF GRILL)		T.B. TO BELOW
	RECESSED PASSIVE SUPPLY AIR GRILL. GRILL RECESSED INTO THE CEILING FROM THE ATTIC SPACE. (* DENOTES NUMBER OF GRILL)		F.B. FROM BELOW
	INTERNAL WALL MOUNTED PASSIVE LOUVER (* DENOTES NUMBER OF LOUVER)		T.A. TO ABOVE
	EXTERNAL WALL MOUNTED EXTRACT LOUVER (* DENOTES NUMBER OF LOUVER)		CONTROL WIRING BETWEEN DEVICES
	EXTERNAL WALL MOUNTED PASSIVE LOUVER (* DENOTES NUMBER OF LOUVER)		NEW WALL MOUNTED HEAT RECOVERY UNIT WHICH SHALL BE INSTALLED INTERNALLY IN EACH SET ROOM OF THE BUILDING AS INDICATED.
	CEILING MOUNTED REMOTE PIR SENSOR FOR CONTROL OF EXTRACT FAN FOR THE TOILETS		EXTERNAL WALL MOUNTED HEAT RECOVERY LOUVER (* DENOTES NUMBER OF LOUVER)
	ROOF TERMINATION COWL (* DENOTES NUMBER OF COWL)		ROOF TERMINATION COWL (* DENOTES NUMBER OF COWL)
	GENERAL ACCESS PANEL IN THE DUCTWORK FOR CLEANING PURPOSES.		SPEED CONTROLLER
	NEW WALL MOUNTED HEAT RECOVERY UNIT WHICH SHALL BE INSTALLED INTERNALLY IN THE OFFICE OF THE BUILDING AS INDICATED.		NEW WALL MOUNTED FIRE DAMPER LOCATED IN SOME FIRE WALLS (* DENOTES NUMBER OF DAMPER)
	FLOOR STANDING HEAT RECOVERY UNIT INSTALLED IN EACH CLASSROOM IN THE BUILDING (* DENOTES NUMBER OF THE HEAT RECOVERY UNIT)		
	GENERAL ACCESS PANEL IN THE DUCTWORK FOR CLEANING PURPOSES.		
	WALL MOUNTED CONTROLLER FOR THE HEAT RECOVERY UNIT.		
	BACK DRAFT MOTORISED DAMPER		

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
- THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY INFORMATION TO ALLOW THE MAIN CONTRACTOR CO-ORDINATE ALL SERVICES.
- THE MECHANICAL CONTRACTOR SHALL ALLOW FOR CO-ORDINATING THE MECHANICAL INSTALLATION WITH THE ELECTRICAL CONTRACTOR ON SITE. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.
- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR PIPEWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.
- NEW MAINS RUN OF MECHANICAL PIPEWORK SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR THE MECHANICAL SERVICES ON SITE THEN THAT WILL BE ACCEPTABLE.
- FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEEVED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROOFING THE OPES AFTER SERVICES IS INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- VENTILATION SERVICES NOTES:
 - THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL FANS, DUCTWORK, SUPPORTS, INSULATION ETC. THROUGHOUT THE BUILDING FOR THE SUCCESSFUL INSTALLATION OF THE VENTILATION SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS.
 - FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
 - REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.
 - THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE VENTILATION WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
 - FINAL LOCATIONS OF ALL GRILLES TO BE CO-ORDINATED ON SITE WITH LIGHTING LAYOUTS.
 - ALL GRILLES SHALL HAVE LOCAL VOLUME CONTROL BALANCING DAMPERS. ALL VCD'S SHALL BE BLADE TYPE AND SHALL HAVE A LOCKING QUADRANT C/W WING NUT LOCKING DEVICE.
 - ALL DUCTWORK INDICATED ON THE DRAWINGS (TOILET EXTRACT & PASSIVE AIR SUPPLY) SHALL BE INSTALLED IN GALVANIZED SHEET METAL.
 - ALL BENDS & CHANGES IN DIRECTION TO BE AS PER DW 144.
 - ALL DUCTING AND ASSOCIATED VENTILATION WORKS SHALL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR.
 - SEE SPECIFICATIONS FOR THE CONTROLLING THE EXTRACT FAN. THE EXTRACT FAN SHALL BE CONTROLLED VIA PIR SENSOR WITHIN THE TOILETS.
 - ALL DUCTWORK LOCATED AT HIGH LEVEL WITHIN CEILING VOID.
 - FIRE DAMPERS SHALL BE INSTALLED WHEREVER A DUCT PASSES THROUGH A FIRE WALL AND SHALL BE MOUNTED WITHIN THE BUILDING FABRIC AND SECURELY ATTACHED TO IT. FIRE DAMPERS SHALL BE OF MULTI-LEAF SHUTTER PATTERNS WITH A RESETTABLE LINK MECHANISM AND VISUAL POSITION INDICATOR. THEY SHALL BE A MINIMUM OF 60MIN FIRE RATING.
 - SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS TO FIRE DAMPERS.
 - THE VENTILATION SYSTEM SHALL BE COMMISSIONED AND BALANCED AS SPECIFIED IN THE TENDER DOCUMENTS.
 - THE CONTRACTOR SHALL ALLOW FOR THE COMMISSIONING AND BALANCING OF THE VENTILATION SYSTEMS IN THE BUILDING ONCE ALL ITEMS HAVE BEEN COMPLETED AND INSTALLED.

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