



- KEY
- ① WEATHER LOUVER C/W INSECT/BIRD CAGE
  - ② ATTENUATOR SELECTED TO MATCH NOISE CONDITIONS AS PER NOISE/SOUND AND ANALYSIS REPORT
  - ③ DUCTWORK TRANSFORMATION PIECE (IF REQUIRED)
  - ④ DUCTWORK TRANSFORMATION PIECE
  - ⑤ DUCTWORK TRANSFORMATION PIECE
  - ⑥ DUCTWORK TRANSFORMATION PIECE OFF HEAT REJECTION FANS

- NOTES:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL RELEVANT STRUCTURAL, ARCHITECTS AND DESIGN ENGINEERS DRAWING.
  2. THE ORIGINAL SITE ASBESTOS REGISTER MUST BE READ IN CONJUNCTION WITH ALL UCL SITE SAFETY RULES AND FIRE MANAGEMENT REGULATIONS PRIOR TO THE COMMENCEMENT OF THE PROJECT.
  3. DETAILED INSTALLATION, HEALTH AND SAFETY DOCUMENTS, COORDINATION, BUILDERS AND CONTRACTORS WORK DRAWINGS MUST BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO ANY COMMENCEMENT OF PIPEWORK INSTALLATION.
  4. ALL SITE CONTAINER/OFFICE AND WASTE SKIPS TO BE DELIVERED AND SITED ON THE PROJECT - OUT OF HOURS. THIS IS TO INCLUDE PIPEWORK AND ELECTRIC MODIFICATIONS TO SERVE THE CONTAINER, AS PER CPW SPECIFICATION.
  5. ALL COVERED SENSORS WITHIN THE PROJECT TO BE REINSTATED ON THE COMPLETION OF A DAYS WORKS OUT ON A DAILY BASIS.
  6. ALL NEW CHILLED WATER PIPEWORK TO BE PRESSURE TESTED PRIOR TO OPERATION OF SYSTEM. EXISTING CHILLED WATER SYSTEM TO BE ISOLATED.
  7. ALTHOUGH NOT SHOWN, AT EACH HIGH POINT AIR VENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATION.
  8. ALTHOUGH NOT SHOWN, AT EACH LOW POINT DRAIN COCKS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATION.
  9. ALL PIPEWORK ENTERING OR LEAVING THE PLANT ROOM/FIRE COMPARTMENT WALLS OR FLOORS TO BE SLEEVED AND FIRE STOPPED BY SPECIALIST MECHANICAL CONTRACTOR.
  10. BRACKETS AND SUPPORTS ARE NOT SHOWN FOR CLARITY. ALL NECESSARY SUPPORTS / BRACKETING FOR PIPEWORK, DUCTWORK FLUES, FLANGES, UNIONS, AIR VENTS, DRAIN COCKS, CABLE TRAY AND PLANT SHALL BE INCLUDED FOR AS DESCRIBED IN THE SPECIFICATION.
  11. THERMAL INSULATION IS NOT SHOWN FOR CLARITY. ALL NECESSARY THERMAL INSULATION SHALL BE INCLUDED FOR AS DESCRIBED IN THE SPECIFICATION.
  12. THIS DRAWING SHOWS DESIGN INTENT. THEY ARE NOT CONSTRUCTION DRAWINGS AND THEREFORE DO NOT SHOW ALL BENDS, TEE SETS ETC., THAT MAY BE NECESSARY TO LOCATE SERVICES CORRECTLY TO AVOID CLASHES AND MAXIMIZE MAINTENANCE ACCESS. THE CONTRACTOR IS NEVERTHELESS DEEMED TO HAVE INCLUDED ALL SUCH MATERIALS ETC. AS REQUIRED TO PRODUCE A COMPLETE FULLY CO-ORDINATED LAYOUT. FOR THE MECHANICAL AND ELECTRICAL SERVICES. SHOULD ASPECT RATIO CHANGES OF DUCTWORK BE NEEDED TO ACHIEVE A FULLY CO-ORDINATED LAYOUT OR TO BE FIT WITHIN THE BUILDING STRUCTURE AND AVAILABLE CEILING VOID, THESE SHALL BE DEEMED TO HAVE BEEN INCLUDED WITHIN THE BUILDING SERVICES CONTRACTOR'S TENDER.
  13. THE MECHANICAL CONTRACTOR SHALL MAKE ALL DUE ALLOWANCES FOR THE THERMAL EXPANSION / CONTRACTION OF ALL PIPEWORK, BY WAY PIPEWORK OFFSETS, ANCHOR POINTS, GUIDES ETC.
  14. ALL FIRE SEALING WORKS TO BE CARRIED VIA SPECIALIST - CHEQUE MATE SOLUTIONS.
  15. NO PHENOLIC FOAM INSULATION SHALL BE USED ON ANY MCWS PIPEWORK SERVICES ONLY MINERAL WOOL INSULATION.
  16. ALL AAV'S SHALL BE OF AIR BOTTLES TYPE.
  17. ALL ROOFING MODIFICATIONS, REFELTING INCORPORATING BUILDERS WORKS TO BE CARRIED OUT VIA ROOFING SPECIALIST.
  18. PRINCIPAL CONTRACTOR TO ENSURE THE INTEGRATION OF ALARMS AND STATUS WITH UCL OPERATIONS AND ALL TEMPERATURES ARE LOGGED (EVERY 10 MINS)
  19. PLEASE REFER TO SPECIFICATION FOR DETAILS ON MATERIALS/ INSTALLATION METHODS .
  20. ALL VOLUME CONTROL DAMPERS TO BE OPPOSED BLADE (UNLESS STATED OTHERWISE).
  21. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH DW 144 / 154.
  22. ALL RECTANGULAR BENDS TO HAVE TURNING VANES.
  23. NR RATINGS REFER TO ONE METER FROM TERMINATION POINT WITH ALL EQUIPMENT OPERATING AT FULL CAPACITY.
  24. ALL EXTERNAL LOUVERES / TERMINATIONS TO BE RAL COLOUR AND FINISH IN ACCORDANCE WITH ARCHITECTS REQUIREMENTS.
  25. ALL SHEET METAL DUCTWORK SHALL BE PROVIDED WITH ACCESS DOORS IN COMPLIANCE WITH RECOMMENDATIONS MADE WITHIN HVCA PUBLICATION, "CLEANLINESS OF VENTILATION SYSTEMS" TR/19. ALL POSITIONS OF ACCESS DOORS SHALL BE FULLY DETAILED ON THE BUILDING SERVICES CONTRACTOR WORKING DRAWINGS.
  26. ALL DUCTWORK TO BE INSTALLED AND CLEANED IN ACCORDANCE WITH HVOA DW17M19 TO THE HIGH LEVEL. IN ADDITION ALL DUCTWORK TO BE CLEANED UPON COMPLETION BY THE PROCESS OF DISINFECTION.

NO	DATE	DESCRIPTION	BY	CHK
T1	31/03/15	HEAT REJECTION MATERIALS		HS

STATUS: TENDER ISSUE

CLIENT: UCL

PROJECT: 123 GRAYS INN ROAD

DRAWING TITLE: HEAT REJECTION FAN AND INTERCONNECTING PLANT/MATERIALS INSTALL

SCALE: A0 DATE: 31/03/15 BY: HS

DRAWING NUMBER: 14105/ME/104 REV: T1

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