

COOLING NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL SPECIFICATION AND ALL OTHER RELEVANT PROJECT DOCUMENTATION.
2. ALL REFRIGERANT PIPEWORK TO MOUNTED ON SUITABLE TRAY & COMPLETE WITH PIPEWORK SUPPORTS.
3. ALL REFRIGERANT WORKS TO BE COMPLETED BY F-GAS COMPLIANT ENGINEER.
4. ALL REFRIGERANT PIPEWORK TO BE SUITABLY INSULATED.

LEGEND

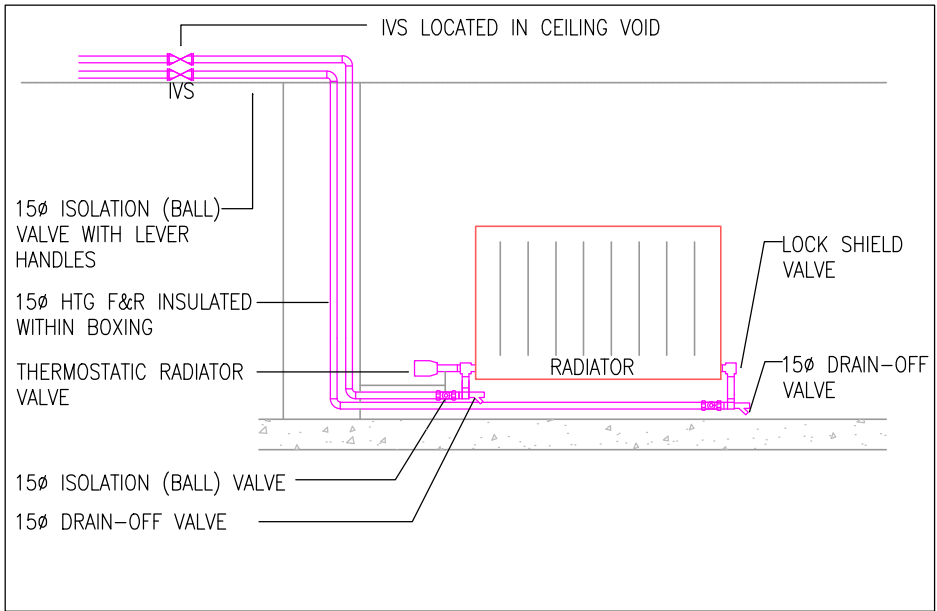
- PROPOSED REFRIGERANT PIPEWORK TO BE INSTALLED WITHIN CEILING VOID
- PROPOSED REFRIGERANT PIPEWORK TO BE INSTALLED WITHIN FLOOR VOID OR WITHIN BASEMENT AT HIGH LEVEL

HEATING NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL SPECIFICATION AND ALL OTHER RELEVANT PROJECT DOCUMENTATION.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH BOTH THE ARCHITECTURAL AND STRUCTURAL ENGINEERING DRAWINGS.
3. ALL RADIATORS ARE TO BE COMPLETE WITH DRAIN POINT.
4. PIPEWORK TO BE INSTALLED SUCH THAT NO HIGH POINTS OCCUR WITHIN ROOMS. AIR BOTTLES/AUTOMATIC AIR VENTS TO BE INSTALLED AT ALL HIGH POINTS.
5. DRAIN COCKS TO BE PROVIDED AT ALL LOW POINTS IN THE SYSTEM.
6. THE MECHANICAL CONTRACTOR SHALL SITE MEASURE AND CONFIRM ALL RADIATOR SIZES AND FINISHES WITH THE M&E CONSULTANT AND ARCHITECT PRIOR TO ORDERING.
7. ALL PIPEWORK EXPANSION EQUIPMENT TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, INCLUDING PROVISION FOR PIPEWORK GUIDANCE WHERE BELLOWES ARE USED. ALL REQUIREMENT FOR EXPANSION TO BE PROVIDED BY THE MECHANICAL CONTRACTOR.
8. THIS LAYOUT IS DIAGRAMMATIC & SHOWS THE DESIGN INTENT. THE MECHANICAL CONTRACTOR SHALL INSTALL ALL DROPS IN CORNERS OF ROOMS, BY COLUMNS OR IN IPS PANELS AND PROVIDE COORDINATED WORKING DRAWINGS.
9. THE PIPE SIZES SHOWN ARE BASED ON COPPER (OLD TABLE X) WITH LEAD-FREE SOLDERED JOINTS.
10. EXPOSED PIPEWORK (WHERE BOXING OUT IS NOT PRACTICABLE) SHALL BE IN CHROMED COPPER WITH MATCHING SUPPORTS.
11. ALL PIPEWORK IS TO BE INSULATED WITH PHENOLIC FOAM OR MINERAL WOOL IN ACCORDANCE WITH THE SPECIFICATION.
12. CONTRACTOR TO ALLOW FOR RE-COMMISSIONING OF WHOLE SYSTEM AFFECTED BY WORKS.
13. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR TESTING ALL EXISTING TRV'S ON RAD'S TO BE RETAINED AND REPLACE ANY THAT ARE PROVEN DEFECTIVE.

LEGEND

- PROPOSED HTG F&R TO BE INSTALLED WITHIN CEILING VOID
- PROPOSED HTG F&R TO BE INSTALLED AT LOW LEVEL
- EXISTING HTG F&R WITHIN CEILING VOID THAT IS BEING RETAINED
- EXISTING HTG F&R AT LOW LEVEL THAT IS BEING RETAINED
- NEW RADIATOR TO BE INSTALLED
- EXISTING RADIATOR TO BE RETAINED
- F & R FLOW & RETURN



GENERAL ARRANGEMENT OF VALVES AND PIPEWORK DROPS TO RADIATORS

Date	Description	Rev	By
Revision Description			

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...Making Buildings Work

Project:
MMU- Estates Projects

Drawing Title:
Mechanical Engineering Services
Righton Building
Proposed Heating & Cooling Layout

Drawing Number:
50953(56)RIG-002

Revision:

Date: 01/04/2022

Scale: 1:100

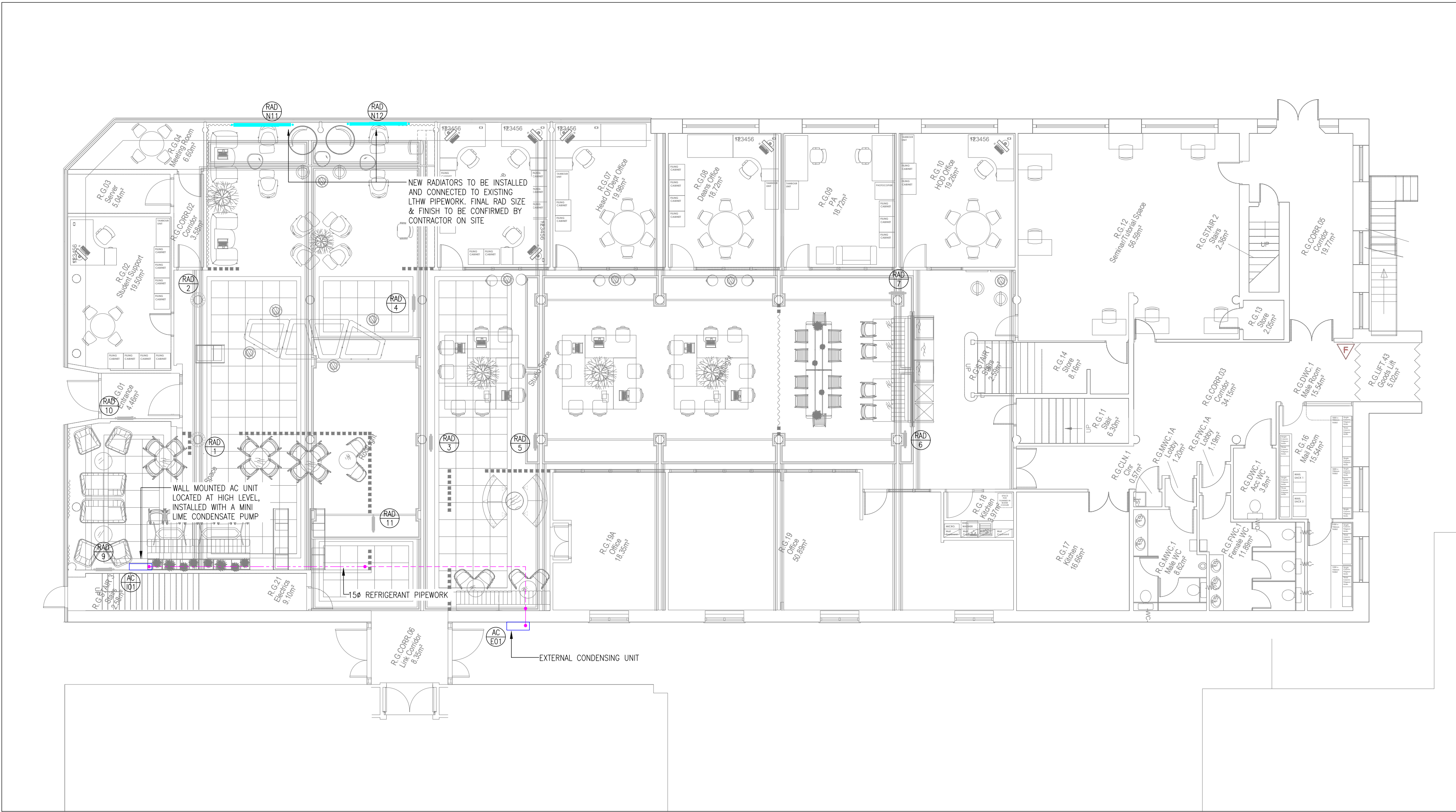
Drawn By: T.Sugden

CAD Dwg File: 50953(56)RIG-002.dwg

Arch. Base Dwg:

Issue Status:

Tender



Reference	Area Served	Cooling Capacity (kW)	Dimensions (mm) (W x D x H)	Sound Pressure Level dBA	Manufacturer	Model	Refrigerant	Electrical Supply	Current (A)	Airflow Rate (l/s)	Weight (kg)
AC I01 (Internal)	Café	2.6	788 219 299	19-24-30-36-42	Mitsubishi	MSZ-AP25VGK	R32	Fed By Outdoor Unit	6	118	10.5
AC E01 (External)	Café	0.6	800 285 550	47	Mitsubishi	MUZ-AP25VG	R32	230V/1PH/50Hz	3.6		31

AC UNIT SELECTION

Reference	Area Served	Dimensions (LxHxD) (mm)	Manufacturer	Model	Heat Output (W)	Weight (kg)
RAD N11	Open plan break room space	2000 300 102	Stelrad	Planar Horizontal K2	1858	39.2
RAD N12	Open plan break room space	2000 300 102	Stelrad	Planar Horizontal K3	1858	39.2

RADIATOR SELECTION