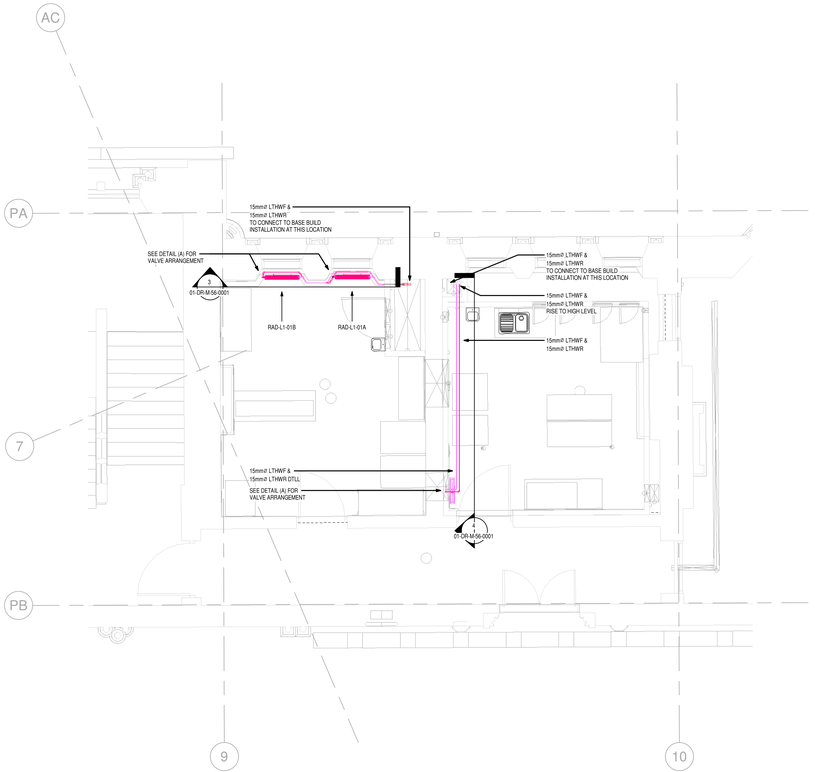
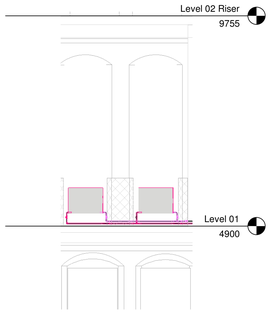
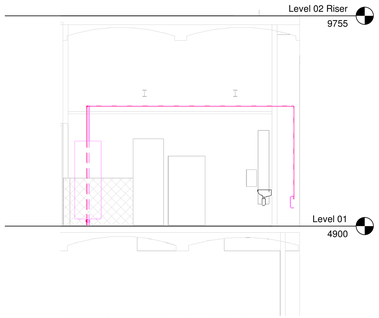


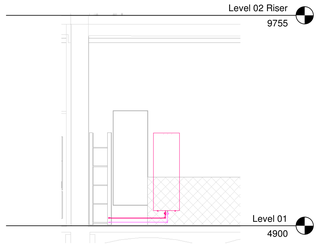
2 (56) Rooms 01-007 & 01-008
1 : 50



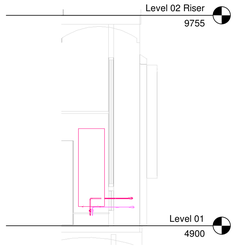
3 (56) 01-007 Wall Elevation (North)
1 : 50



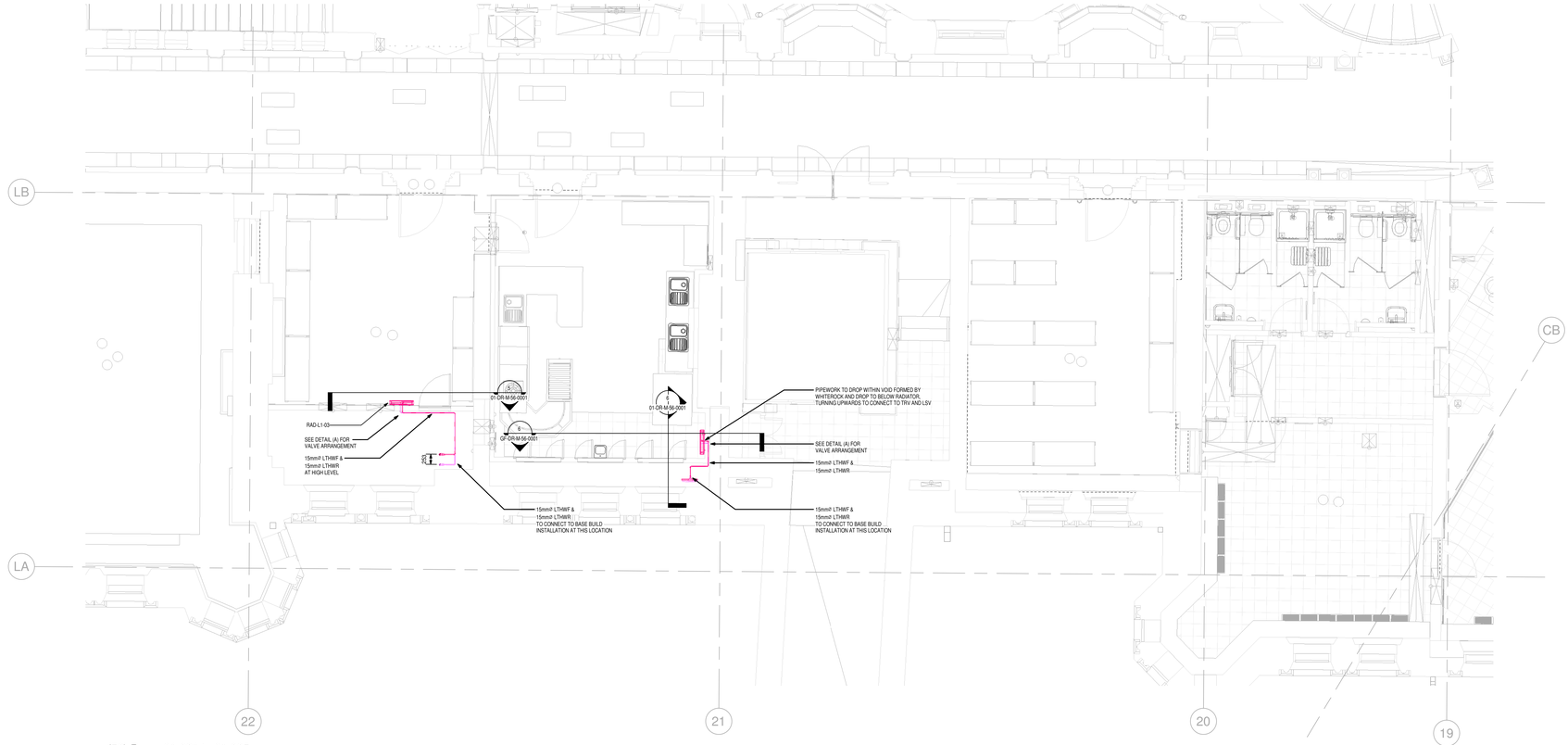
4 (56) 01-008 Wall Elevation (West)
1 : 50



5 (56) 01-021 Wall Elevation (South)
1 : 50



6 (56) 01-022 Wall Elevation (East)
1 : 50



1 (56) Room 01-021 to 01-025
1 : 50

HK-N-50-General Notes

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DRAWINGS AND INFORMATION FROM THE WHOLE PROJECT TEAM AS AVAILABLE ON ACONEX. THIS IS INCLUSIVE OF, BUT NOT LIMITED TO, ALL AVAILABLE 3D REVIT MODEL INFORMATION FROM HULLEY & KIRKWOOD, TAYLOR DESIGN, PURCELL, RAMBOLL AND ARUP.
2. ALL ELECTRICAL INSTALLATION WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH BS 7671 INCORPORATING AMENDMENTS.
3. THE CONTRACTOR SHALL ALLOW FOR DISJOINTED WORKS INVOLVED WITH THE PROJECT IN REGARD TO COORDINATION WITH ALL OTHER TRADES.
4. ALL MECHANICAL INSTALLATIONS TO BE UNDERTAKEN IN ACCORDANCE WITH THE PRINCIPAL CONTRACTORS PROGRAMME OF WORKS.
5. FINAL POSITIONS OF ALL EQUIPMENT SHALL BE AS PER THE SETTING OUT IN ACCORDANCE WITH THE ARCHITECTURAL INFORMATION.
6. ALL BMS CONTROLS, MECHANICAL CONTROL PANELS AND TESTING AND COMMISSIONING OF THE AUTOMATIC CONTROLS BY OTHERS. THE CONTRACTOR SHALL ALLOW FOR ALL REQUIRED LIAISON/COORDINATION WITH THE AUTOMATIC CONTROLS SPECIALIST AS PART OF THEIR WORKS TO ACCOMMODATE THE SETTING TO WORK OF ALL RESPECTIVE EQUIPMENT AND PLANT. FINAL INSTALLATIONS TO BE IN ACCORDANCE WITH THE ARUP PROJECT SPECIFICATION(S).
7. THE CONTRACTOR SHALL UNDERTAKE ALL WORKS IN ACCORDANCE WITH THE ARUP PROJECT SPECIFICATION(S). IF NOT PROVIDED AT THE TIME OF TENDER, THE CONTRACTOR SHALL REQUEST SAID DOCUMENT(S) AND ENSURE THEIR TENDER COMPLIES FULLY WITH THE OUTLINED REQUIREMENTS.
8. ALL INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH THE PROJECT ACOUSTIC REPORT.
9. ALL INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH THE PROJECT FIRE ENGINEERING REPORT.
10. THIS DRAWING IS DIAGRAMATIC ONLY AND SHOWS DESIGN INTENT. THE MECHANICAL SERVICES CONTRACTOR SHALL PROVIDE WORKING DRAWINGS FOR FINAL APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION, ALLOWING SUFFICIENT TIME FOR REVIEW AND COMMENT, AS NECESSARY, SUCH THAT IT DOES NOT IMPACT UPON THE PRINCIPAL CONTRACTORS PROGRAMME OF WORKS.
11. THE CONTRACTOR SHALL CONFIRM THEIR BUILDERSWORK REQUIREMENTS TO THE PRINCIPAL CONTRACTOR, ALLOWING SUFFICIENT TIME FOR THE WORKS TO BE UNDERTAKEN SUCH THAT IT DOES NOT IMPACT UPON THE PRINCIPAL CONTRACTORS PROGRAMME OF WORKS.

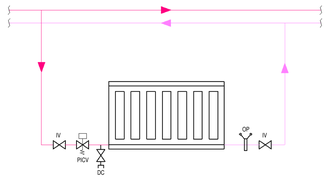
HK-N-56-Heating Notes

1. THE CONTRACTOR SHALL ALLOW FOR FINAL CONNECTION OF THE KITCHEN SUPPLY AIR HANDLING UNIT FROST AND RE-HEAT COILS TO THE BASE BUILD LTHW INSTALLATIONS.
2. SECONDARY DISTRIBUTION PIPEWORK FOR LTHW SERVING THE KITCHEN SUPPLY AIR HANDLING UNIT FROST AND RE-HEAT COILS BY OTHERS. TO BE TERMINATED WITHIN 500MM OF UNIT CONNECTION POSITIONS.
3. AUTOMATIC CONTROLS AND VALVE ARRANGEMENTS FOR THE KITCHEN SUPPLY AIR HANDLING UNIT FROST AND RE-HEAT COILS BY OTHERS.
4. AIR BOTTLES/AUTOMATIC AIR VENTS TO BE INSTALLED AT ALL HIGH POINTS IN THE SYSTEM.
5. DRAIN COCKS TO BE INSTALLED AT ALL LOW POINTS IN THE SYSTEM.
6. THE CONTRACTOR SHALL ALLOW FOR EXTENDING LTHW PIPEWORK TO SERVE RADIATORS WITHIN SPACES FROM THE BASE BUILD LTHW PIPEWORK DISTRIBUTION INSTALLATIONS.
7. ZONE CONTROL VALVES AND ROOM THERMOSTATS TO BE PROVIDED BY OTHERS AS PART OF THE BASE BUILD INSTALLATIONS.
8. FOR FINAL LOCATIONS OF WALL MOUNTED THERMOSTATS PLEASE REFER TO THE ARCHITECTURAL COORDINATED SETTING OUT INFORMATION.
9. RADIATORS INSTALLED WITHIN CATERING AREAS, AS INDICATED WITHIN HULLEY AND KIRKWOOD PROJECT INFORMATION, TO BE INSTALLED, AS A MINIMUM, WITH BALL VALVE ISOLATION, A DYNAMIC THERMOSTATIC RADIATOR VALVE ON THE FLOW AND A LOCK SHIELD VALVE ON THE RETURN. FINAL SPECIFICATION OF VALVES TO BE AS PER THE ARUP PROJECT SPECIFICATION(S).
10. ALL PIPEWORK EXPANSION EQUIPMENT TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, INCLUDING PROVISION FOR PIPEWORK GUIDANCE WHERE EXPANSION BELLOWS ARE USED. THE MECHANICAL SERVICES CONTRACTOR SHALL ALLOW FOR THE SPECIALIST SUB-CONTRACTOR DESIGN OF THESE WORKS WITHIN THEIR PACKAGE.
11. ALL LTHW PIPEWORK TO BE INSULATED IN ACCORDANCE WITH THE ARUP PROJECT SPECIFICATION(S).
12. ALL RADIATORS TO BE COMPLETE WITH DRAIN POINT.
13. THE MECHANICAL CONTRACTOR SHALL SITE MEASURE AND CONFIRM ALL RADIATOR SIZES AND FINISHES WITH THE M&E CONSULTANT AND ARCHITECT PRIOR TO PROCUREMENT.
14. LTHW PIPEWORK MATERIAL AND INSTALLATION TO BE IN FULL ACCORDANCE WITH THE ARUP PROJECT SPECIFICATION(S).
15. ALL SERVICES SHOWN ON THIS DRAWING INCLUDING PIPEWORK SUPPORT BRACKETS AND SECONDARY STEELWORK SHALL BE PROVIDED BY THE MECHANICAL SERVICES CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. INSTALLATIONS TO BE IN FULL ACCORDANCE WITH THE ARUP PROJECT SPECIFICATION(S).

LEGEND

LOW TEMPERATURE HOT WATER FLOW	
LOW TEMPERATURE HOT WATER RETURN	
DTLL	DROP TO LOW LEVEL
IV	ISOLATION VALVE
PICV	PRESSURE INDEPENDANT CONTROL VALVE
DC	DRAIN COCK
OP	ORIFICE PLATE

DETAIL (A) - TYPICAL RADIATOR CONNECTION



NO FLUSHING BYPASS REQUIREMENT FOR FLUSHING

08/11/2023	ISSUED FOR CONSTRUCTION	C01	S Mish
02/08/2021	UPDATED IN LINE WITH CLASH REPORTS & COMMENTS	P06	J Staley
18/05/2021	UPDATED IN LINE WITH COMMENTS	P05	J Staley
23/04/2021	ISSUED FOR TENDER	P04	J Staley
05/11/2020	ISSUED FOR WORK STAGE 5	P03	D Piercy
30/08/2019	ISSUE FOR TENDER	P02	S Lu
23/08/2019	ISSUE FOR COMMENT	P01	S Lu
Date	Revision Description	Rev.	By

Revision Description

hulley & kirkwood consulting engineers

...Making Buildings Work

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Project:
Manchester Town Hall Catering Works

Drawing Title:
HEATING LAYOUT LEVEL 01

Drawing Number:
OTH-HAK-TH-01-DWG-V-5601

Revision:	C01	**Rev Date:**	08/11/2023
Scale:	1 : 50		
Drawn By:	S Lu	**Checked By:**	R Beagan
		Approved By:	R Beagan
Arch Rev:	-		
Struct Rev:	-		

Issue Status:
CONSTRUCTION

A0