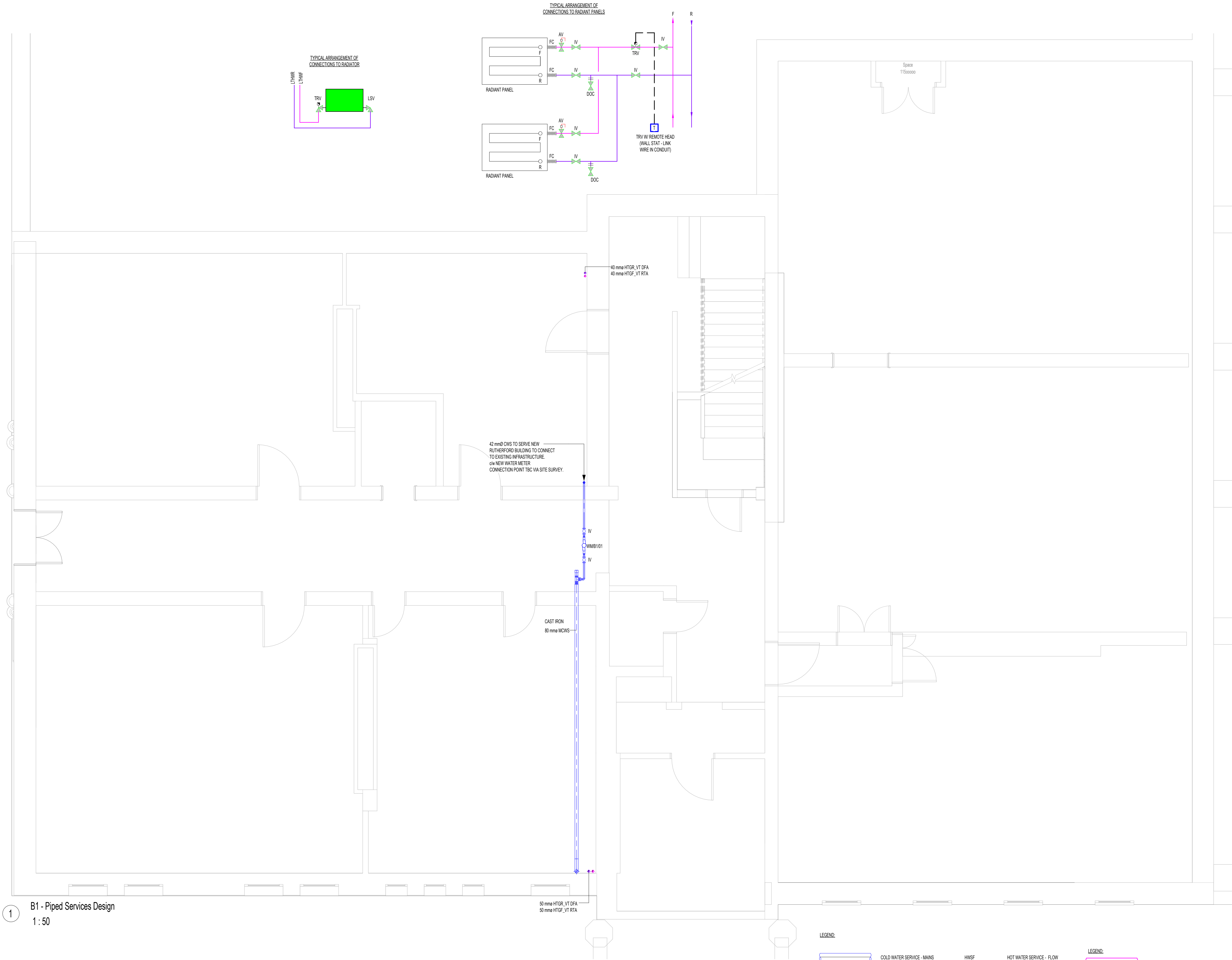




1 B1 - Piped Services Design
1:50

LEGEND:

COLD WATER SERVICE - MAINS

HOT WATER SERVICE - FLOW

HOT WATER SERVICE - RETURN

PIPEWORK - CEILING VOID

PIPEWORK - FLOOR VOID

PIPEWORK - HIGH LEVEL

PIPEWORK - LOW LEVEL

HWSF

HWSR

MCWS

CS

CV

HM

IV

WM

HOT WATER SERVICE - FLOW

HOT WATER SERVICE - RETURN

MAINS COLD WATER SERVICE

COMMISSIONING SETS

CHECK VALVE

HEAT METER

ISOLATION VALVE

WATER METER

HEATING - FLOW

HEATING - RETURN

PIPEWORK - CEILING VOID

PIPEWORK - FLOOR VOID

PIPEWORK - HIGH LEVEL

PIPEWORK - LOW LEVEL

THERMOSTAT

NOTES:
THIS IS A DESIGN DRAWING NOT AN INSTALLATION DRAWING.
DIMENSIONS SHOULD NOT BE SCALED.
SITE DIMENSIONS TO BE CHECKED BEFORE PRODUCTION OF CRITICAL MANUFACTURING DRAWINGS.
THE DRAWING IS COPYRIGHT AND NO PART MAY BE REPRODUCED WITHOUT WRITTEN CONSENT.

DOMESTICS NOTES:
1. ALL CONCEALED PIPEWORK TO BE INSULATED.
2. ALL HOT AND COLD TERMINAL BRANCHES TO BE 15mm AND SOLID END CONNECTIONS UNLESS OTHERWISE STATED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PARTICULAR PROJECT SPECIFICATION AND ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
4. AAV's TO BE INSTALLED TO ALL HIGH POINTS.
5. DCV's TO BE INSTALLED TO ALL LOW POINTS.
6. ALL FLOW MEASUREMENT DEVICES SHALL BE INSTALLED ATB8 LEAST 10 DIAMETERS UPSTREAM AND 5 DIAMETERS DOWNSTREAM OF ANY FITTINGS.
7. PROVIDE TERMINAL BRANCH ISOLATION ON ALL HOT & COLD WATER OUTLETS.
8. COLD WATER BELOW 20°C AFTER RUNNING THE TAP FOR AT LEAST 2 MINUTES.
9. HOT WATER ABOVE 50°C AFTER RUNNING THE TAP FOR AT LEAST 1 MINUTE.
10. ALL HOT WATER OUTLETS SERVING WASH HAND BASINS TO BE BLENDED TO 43°C MAXIMUM.
11. CWS PIPEWORK TO BE INSTALLED IN COPPER.
12. HEATING PIPEWORK TO BE INSTALLED IN HEAVY GRADE MILD STEEL.
13. EXPOSED PIPEWORK WITHIN ROOMS TO BE NON-INSULATED AND PAINTED TO ARCHITECTS PREFERENCE (RAL 9010).

HEATING & COOLING NOTES:
1. FINAL CONNECTIONS TO BE MADE TO SUIT UP TO DATE ARCHITECTS LAYOUT.
2. AAV'S TO BE INSTALLED TO ALL HIGH POINTS.
3. DCV's TO BE INSTALLED TO ALL LOW POINTS.
4. ALL FLOW MEASUREMENT DEVICES WILL BE INSTALLED AT LEAST 10 DIAMETERS UPSTREAM AND 5 DIAMETERS DOWNSTREAM OF ANY FITTINGS.
5. IV's AND CS's TO BE INSTALLED ON MAIN BRANCHES.
6. ALL HEATING FLOW AND RETURN PIPEWORK TO BE 15mm UNLESS OTHERWISE STATED.
7. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PARTICULAR PROJECT STANDARD SPECIFICATION & AND ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWING.
8. THIS DRAWING IS FOR COSTING PURPOSE ONLY INSTALLATION DRAWINGS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL SERVICES.
10. ALL PIPEWORK WITHIN CEILING VOID/FLOOR VOID/RISERS TO BE THERMAL INSULATED IN ACCORDANCE WITH THE SPECIFICATION.
11. FLUSHING BYPASS VALVES SHALL BE INSTALLED AS BSRIA APPLICATION GUIDE 189.
12. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR EXPANSION ON ALL PIPEWORK BY INCLUDING FOR BELLOWS EXPANSION LOOPS AND ANCHOR POINTS.
13. ALL TAIL CONNECTIONS TO BE HARD PIPES.
14. HEATING PIPEWORK TO BE PAINTED AS PER ARCHITECTS DETAILS RAL 9010 WITH TRADITIONAL SADDLED BRACKETS OR RING BRACKETS.
15. ALL PIPEWORK PASSING THROUGH FIRE BARRIERS & WALLS TO PASS THROUGH FIRE SLEEVES. ALL PIPEWORK PASSING THROUGH WALLS, FLOORS, STRUCTURE SHALL BE SLEEVED.
16. ALLOW A DOUBLE PIPE SET WHEREVER PIPES PASS THROUGH WALLS, CEILINGS OR FLOORS TO ALLOW FOR POSSIBLE STRUCTURAL OBSTRUCTIONS.
17. DRAIN COCKS TO BE INSTALLED AT LOW POINTS & AIR VENTS AT ALL HIGH POINTS.
18. CONTRACTOR SHALL ALLOW FOR ALL ADDITIONAL BENDS & FITTINGS NECESSARY TO AVOID OTHER SERVICES ETC.
19. ALLOWANCE TO BE MADE FOR DRILLING HOLES THROUGH WALLS FOR THE INSTALLATION OF NEW PIPEWORK AND MAKING GOOD ON COMPLETION.
20. ALL EXPOSED HEATING PIPEWORK TO REMAIN UNINSULATED.

RevC02	STAGE 4 ISSUE - MCC COMMENTS INCORPORATED				
By:	JD	Chkd:	JFH	Date:	06.12.24
App:	JCF				
RevC01	STAGE 4 CONTRACT ISSUE				
By:	JN	Chkd:	JFH	Date:	16.08.24
App:	JCF				
StatusA4	DescriptionSTAGE 4A COMPLETED			Stage4	
Client	<div></div>				
Project	UNIVERSITY OF MANCHESTER RUTHERFORD BUILDING				
Drawing	MECHANICAL SERVICES PIPED SERVICES BASEMENT LEVEL GENERAL ARRANGEMENT LAYOUT				
<div></div>					
<div></div>					
NEWCASTLE ■ TEESSIDE ■ YORKSHIRE ■ NORTH WEST					
Drawing NumberUOMRB-CAD-XX-B1-DR-M-56000				RevisionC02	
ScaleAs indicated		SizeA1			
Drawing Origins : RBUM-IBI-XX-XX-M3-A-000002 Rev 241108					