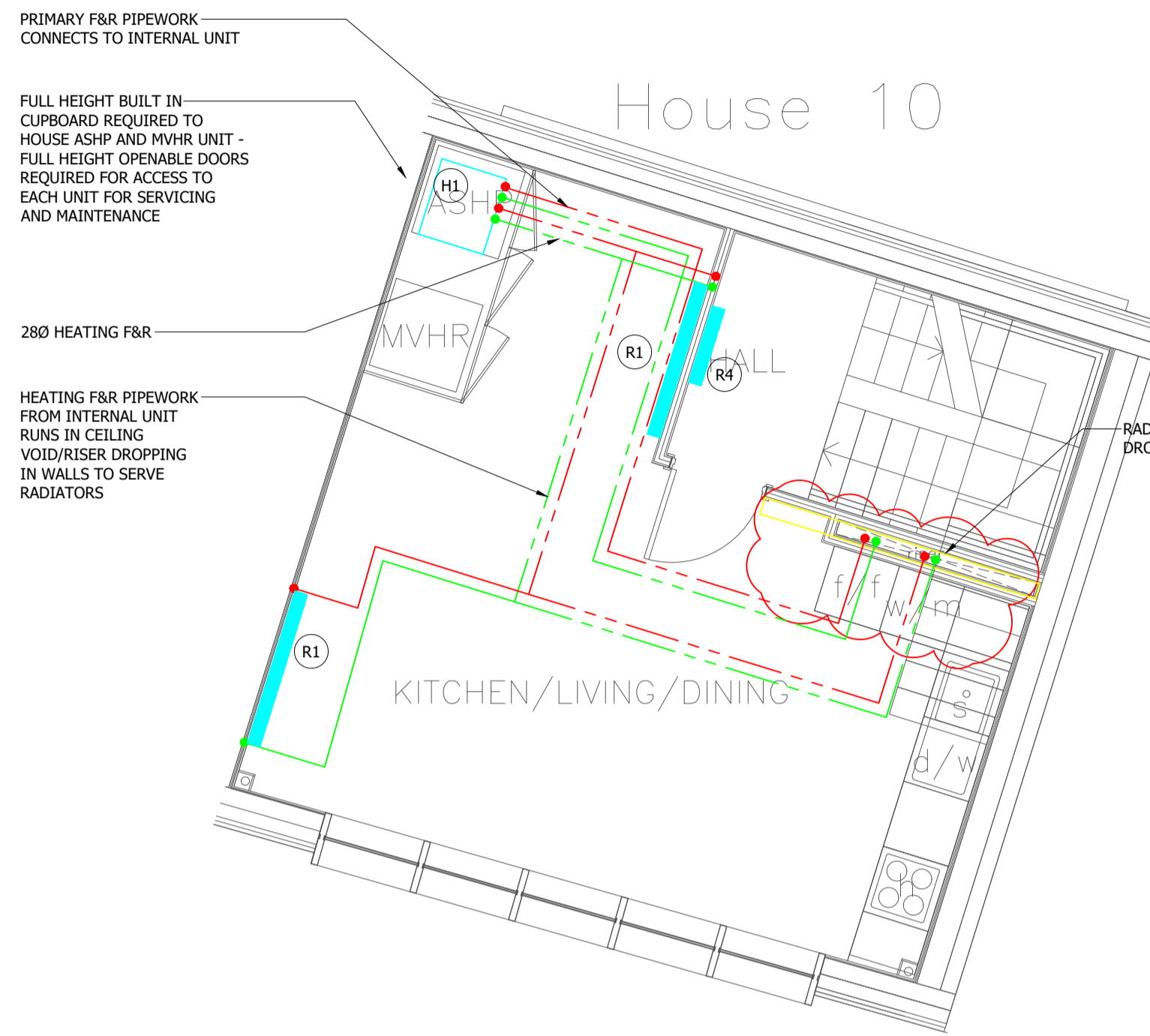
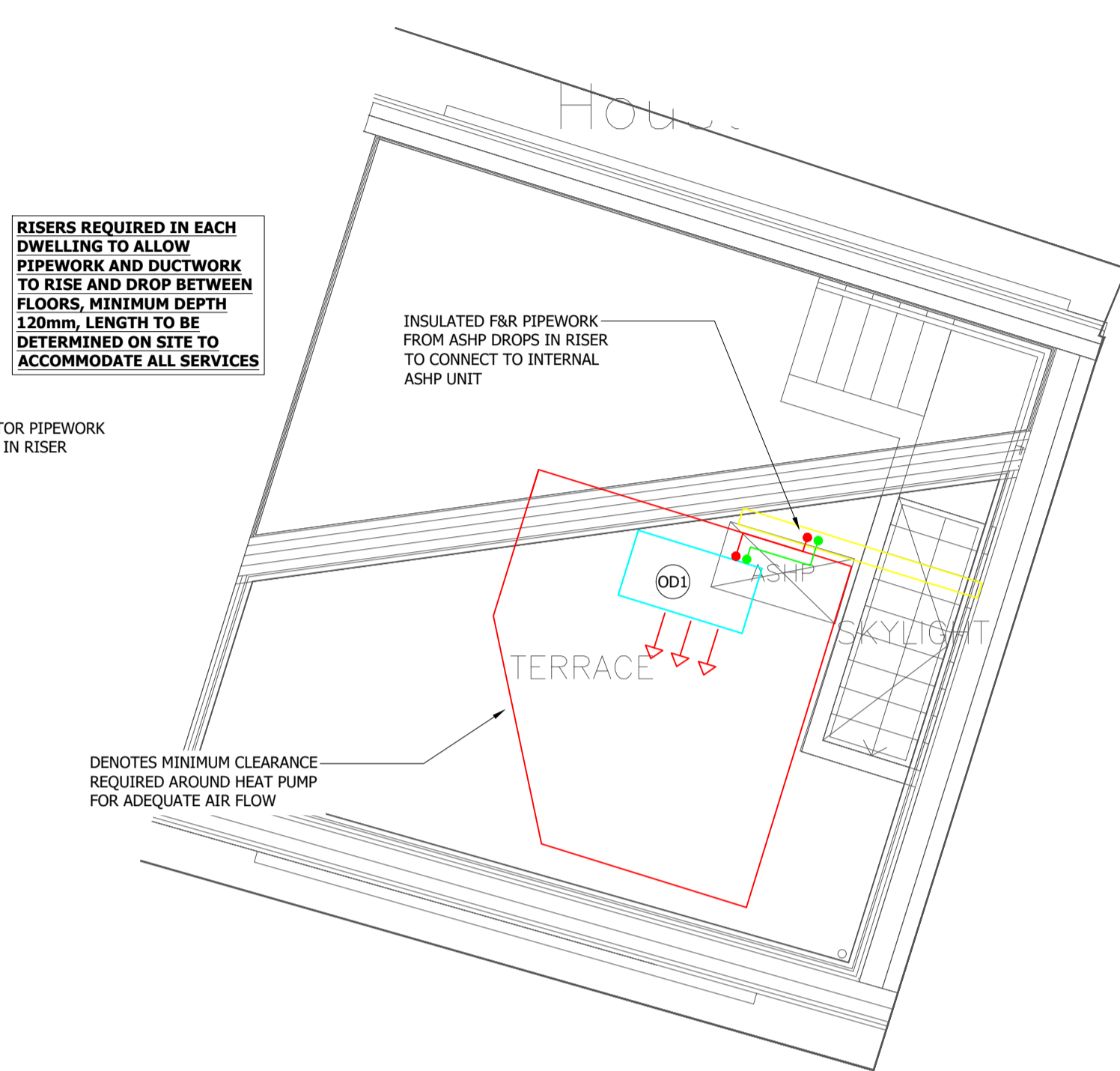


## PIPEWORK LEGEND

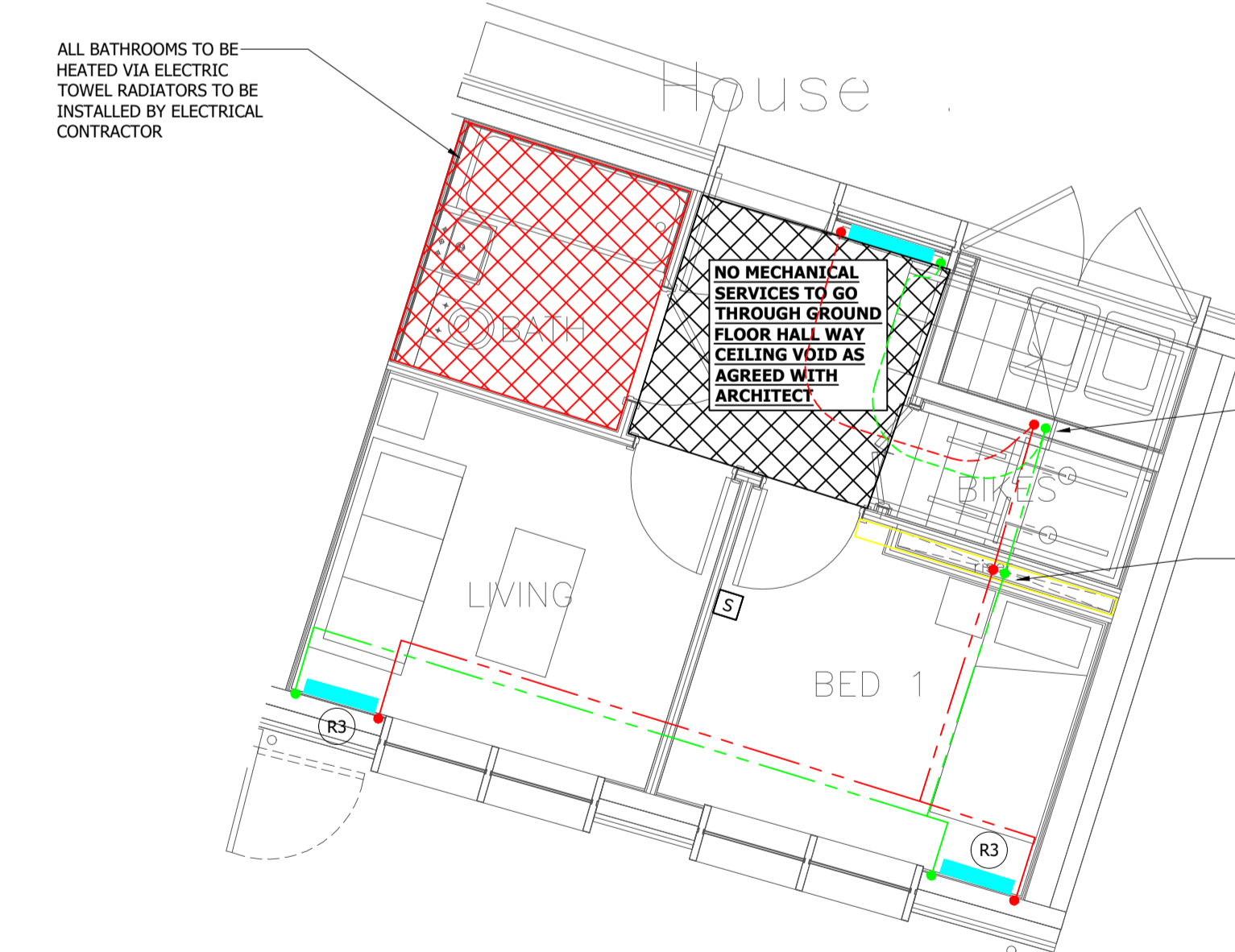
- DENOTES PIPEWORK AT LOW LEVEL
- DENOTES PIPEWORK WITHIN FLOOR
- DENOTES PIPEWORK WITHIN CEILING VOID / JOIST SPACE OVER / ROOFSPACE



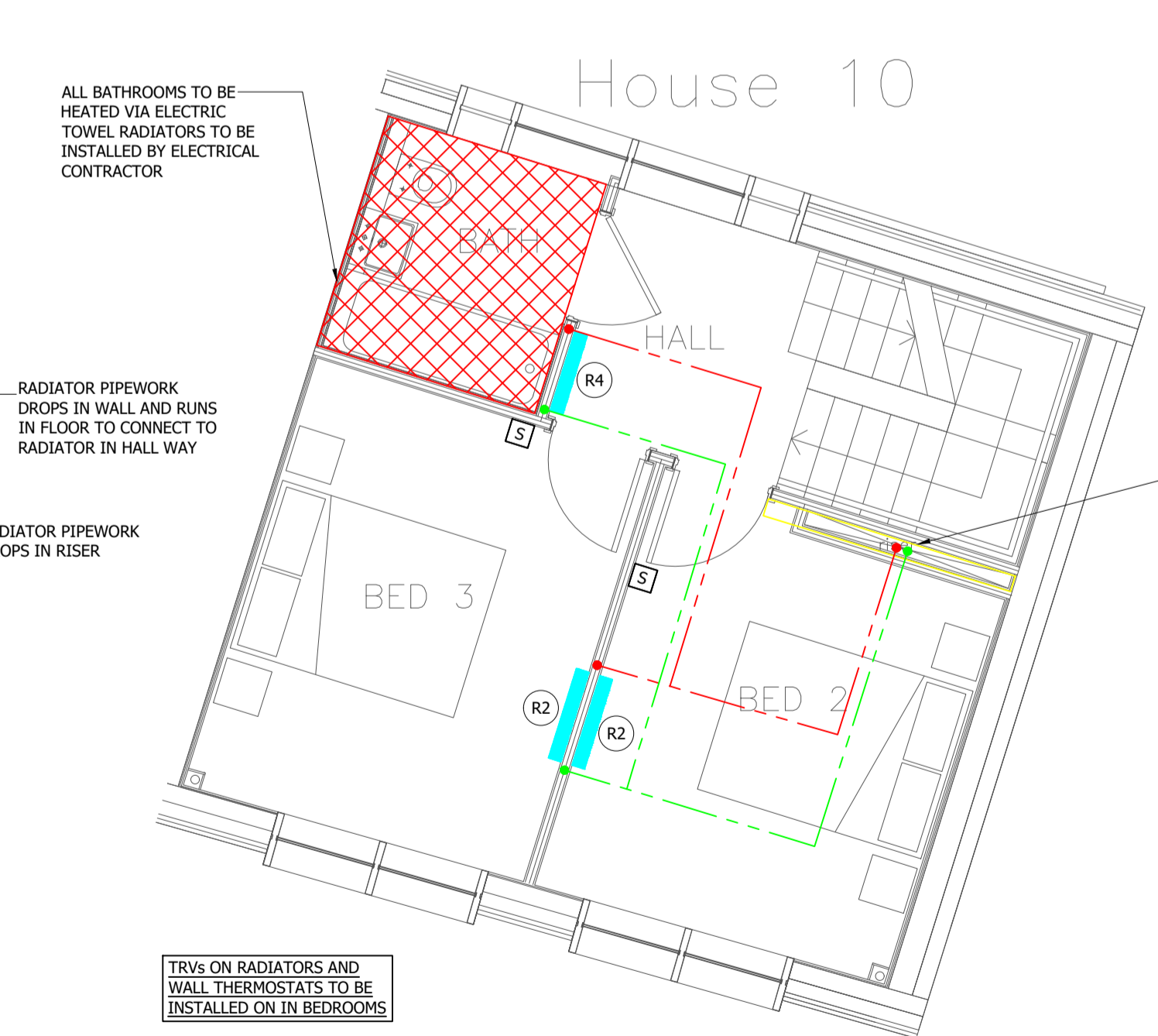
SECOND FLOOR PLAN



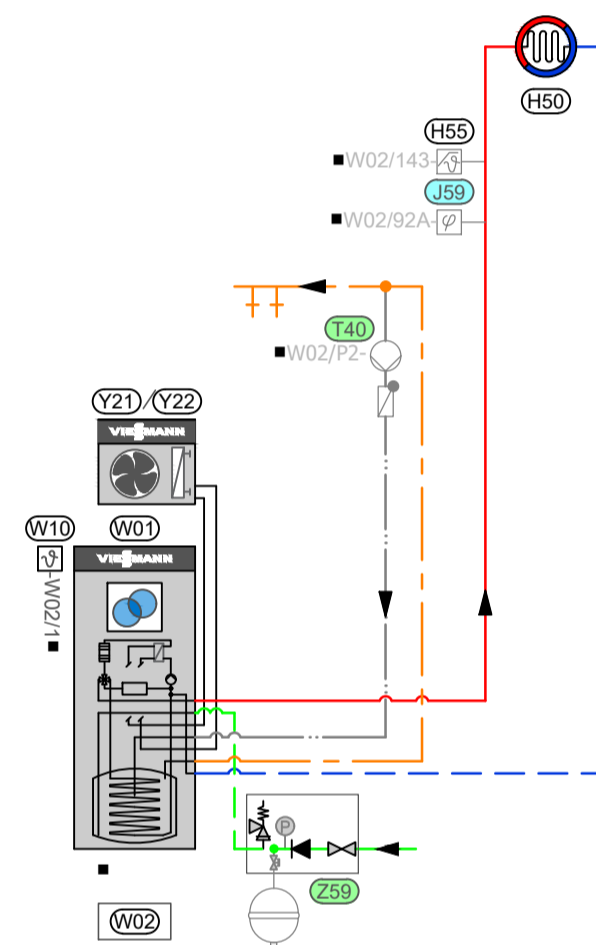
TERRACE PLAN



GROUND FLOOR PLAN



FIRST FLOOR PLAN



## SCHEDULE OF EQUIPMENT

- H1.** VISSMANN VITOCAL 151-A, MODEL A4, 4KW OUTPUT HEAT PUMP, UNIT DIMENSIONS (wxdht) 600 X 597 X 1951mm, UNIT WEIGHT 386KG c/w COMBINED PUMP/ZONE CONTROLLER, INDOOR DISPLAY, WIRING CENTER AND ALL ACCESSORIES TO ENSURE A COMPLETE INSTALLATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. SYSTEM SHALL BE COMPLETE WITH CONTROLLERS AND NECESSARY 'HUB' SO THE SYSTEM CAN BE CONNECTED VIA IP ADDRESS TO THE INTERNET AND CLIENT'S HELD DEVICES TO GIVE FULL MONITORING & CONTROL FUNCTIONS.
- OD1.** VISSMANN VITOCAL 151-A A4 OUTDOOR UNIT, DIMENSIONS (wxdht) 1144 X 600 X 841mm, WEIGHT 162KG COMPLETE WITH CONDENSATE DRAIN. UNIT SHALL BE PROVIDED WITH MANUFACTURERS FLOORSTANDING BRACKET TO ALLOW CONNECTIONS BELOW THE UNIT AND PROPRIETARY CASING POWDERCOATED RAL COLOUR MATCHED TO THE OUTDOOR UNIT.
- S.** DENOTES WALL MOUNTED THERMOSTAT (VISSMANN WIRELESS TYPE SUITABLE FOR USE WITH VITOCAL 151-A)

## LOW ENERGY DWELLING NOTE

THE MECHANICAL CONTRACTOR SHALL ENSURE THAT SERVICES ARE INSTALLED TO A HIGH PERFORMANCE STANDARD AND THAT THE AIRTIGHT LAYER IS MAINTAINED THROUGHOUT THE DWELLINGS.

THE AIRTIGHT LAYER IS OF CRITICAL IMPORTANCE TO ENSURE THE LOW ENERGY DWELLING SPECIFICATION IS ACHIEVED, THE CONTRACTOR SHALL REPORT ANY NON-COMPLIANCE (INCLUDING ANY WORKS IDENTIFIED BY OTHER CONTRACTORS) TO THE ARCHITECT IMMEDIATELY.

SERVICE PENETRATIONS SUCH AS CABLES, PIPEWORK, DUCTS & BACKBOXES ETC. OF THE AIRTIGHT LAYER SHALL BE AVOIDED & DESIGNED OUT WHERE POSSIBLE. ANY UNAVOIDABLE PENETRATIONS SHALL BE SEALED WITH PROPRIETARY GASKETS, COLLARS, TAPE & GROMMETS AS NECESSARY TO MAINTAIN AN AIR TIGHT SEAL.



## INTERNAL AND EXTERNAL HEAT PUMPS

### HEAT PUMP LEGEND

REF	DESCRIPTION
W01	INDOOR UNIT VITOCAL 151-A
W02	WEATHER COMPENSATED HEAT PUMP CONTROL UNIT E3
W10	OUTSIDE TEMPERATURE SENSOR
Y21	OUTDOOR UNIT, SPLIT
Y22	OUTDOOR UNIT, MONOBLOCK
T40	DHW CIRCULATION PUMP, GRUNDFOS OR SIMILAR APPROVED
J59	CONTACT HUMIDISTAT 24V
J63	THERMOSTAT, INDIVIDUAL ROOM CONTROL
H50	HEATING CIRCUIT 1
H55	CONTACT THERMOSTAT, TEMPERATURE LIMITER FOR UFH
Z59	SAFETY ASSEMBLY WITH SHUT-OFF VALVE, NRV & PRESSURE GAUGE

### VISSMANN VITOCAL 151-A SCHEMATIC

## GENERAL BUILDING NOTES

ALL CONTROLS FOR MECHANICAL AND ELECTRICAL SERVICES SYSTEMS WILL BE IN COMPLIANCE WITH PART L.

ALL INSULATION TO PIPES AND DUCTS WILL COMPLY WITH DOMESTIC BUILDING SERVICES COMPLIANCE GUIDE.

COMMISSIONING OF FIXED BUILDING SERVICES TO BE IN ACCORDANCE WITH CIBSE COMMISSIONING CODE M: COMMISSIONING MANAGEMENT - REFER TO PARAGRAPHS 3.44 - 3.46

AIR LEAKAGE TESTING FOR DUCTWORK SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE PROCEDURES GIVEN IN HVCA DW/143 - REFER TO PARAGRAPHS 3.47 - 3.49

A NOTICE IN WRITING WILL BE GIVEN TO BUILDING CONTROL AND THE BUILDING OWNER NOT MORE THAN 5 DAYS AFTER COMPLETION STATING THE FIXED BUILDING SERVICES HAVE BEEN PROPERLY COMMISSIONED AND SIGNED BY A SUITABLY QUALIFIED PERSON - REFER TO PARAGRAPHS 3.50 - 3.52

A NOTICE IN WRITING WILL BE GIVEN TO THE BUILDING OWNER NOT MORE THAN 5 DAYS AFTER COMPLETION OF THE WORK, GIVING SUFFICIENT INFORMATION ON THE OPERATIONAL AND MAINTENANCE REQUIREMENTS OF THE FIXED BUILDING SERVICES - REFER TO PARAGRAPHS 3.83 - 3.86

A NOTICE IN WRITING WILL BE GIVEN TO BUILDING CONTROL STATING THE REQUIREMENTS OF PARAGRAPH 3.83 HAS BEEN MET - REFER TO PARAGRAPHS 3.83 - 3.86

A NEW LOGBOOK SHALL BE PROVIDED TO THE BUILDING OWNER UPON COMPLETION IN THE FORMAT GIVEN IN CIBSE TM 31 OR EQUIVALENT

THE BUILDING OPERATOR WILL BE GIVEN SUFFICIENT INFORMATION INCLUDING DETAILS OF THE MECHANICAL AND ELECTRICAL SERVICES INSTALLATIONS, THEIR METHOD OF OPERATION AND MAINTENANCE TO ENABLE THE BUILDING TO OPERATE IN AN ENERGY EFFICIENT MANNER.

WHERE VENTILATION OR AIR CONDITIONING DUCTWORK PASSES THROUGH A FIRE SEPARATING ELEMENT IT SHALL COMPLY WITH AN APPROPRIATE METHOD FOR MAINTAINING THE FIRE RESISTANCE OF THE WALL, FLOOR OR BARRIER GIVEN IN BS 9999: 2017.

VENTILATION PIPEWORK/DUCTWORK RUNNING VERTICALLY IN A ROOFSPACE SHALL BE COMPLETE WITH A CONDENSATION TRAP.

WHERE A PIPE PASSES THROUGH A FIRE SEPARATING ELEMENT AND IS OF A GREATER DIAMETER THAN THOSE OUTLINED IN TABLE 9.1 APPROVED DOCUMENT B IT SHALL BE PROVIDED WITH A SUITABLE PROPRIETARY SEALING SYSTEM WHICH HAS BEEN SHOWN BY TEST TO MAINTAIN THE FIRE RESISTANCE OF THE FIRE SEPARATING ELEMENT. ALL IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT B.

THE INSTALLATION(S) SHALL COMPLY WITH ALL THE RELEVANT STATUTORY REQUIREMENTS AND REGULATIONS WHICH INCLUDE THE FOLLOWING:

- THE HEALTH AND SAFETY AT WORK ACT, ETC.
- REGULATIONS UNDER THE ELECTRICITY ACTS.
- THE CLEAN AIR ACT.
- CONTROL OF POLLUTION ACT.
- ENERGY CONSERVATION ACT.
- REGULATIONS UNDER THE FACTORIES ACT.
- THE BUILDING REGULATIONS.
- THE IET WIRING REGULATIONS FOR ELECTRICAL INSTALLATIONS.
- THAMES WATER REGULATIONS.
- CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS (CDM).
- GAS SAFE REGULATIONS.
- ANY SPECIAL REQUIREMENTS OF THE LOCAL ELECTRICITY, WATER UNDERTAKING AND FIRE FIGHTING AUTHORITY.

## GENERAL LTHW HEATING NOTES

HEAT PUMP SERVING THE SYSTEM SHALL CONFORM TO PART L OF THE BUILDING REGULATIONS. THE MANUFACTURE, RATING AND FIRING SHALL BE AS DETAILED ON THE CONTRACT DRAWINGS AND SPECIFICATION DOCUMENTS.

ALL COPPER PIPES AND FITTINGS SHALL BE IN ACCORDANCE WITH BS EN 12449 : 2012 AND BS EN 1254 PART 1 & 2 : 1998.

COPPER PIPES ABOVE GROUND SHALL BE BS EN 12449 : 2012.

FULL ALLOWANCE SHALL BE MADE FOR EXPANSION AND CONTRACTION, THE MECHANICAL CONTRACTOR BEING RESPONSIBLE FOR THE FIXING OF THE PIPES FOR SATISFACTORY WORKING.

ALL HIGH POINTS ARE TO BE VENTED ADEQUATELY.

DRAW OFF COCKS SHALL BE FIXED IN SUCH POSITIONS AS ARE NECESSARY TO DRAIN THE WHOLE OF THE INSTALLATION.

ALL ITEMS OF HEATING EQUIPMENT TO BE PROVIDED UNDER MECHANICAL CONTRACT UNLESS OTHERWISE STATED.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL HEATING EQUIPMENT PIPEWORK FROM SAFETY VALVES / VENTS SHALL BE INSTALLED TO THE MANUFACTURERS RECOMMENDATIONS AND BE ADEQUATELY TERMINATED IN COMPLIANCE WITH CURRENT REGULATIONS.

ALL HEATING PIPEWORK SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATION AND SHALL BE ARMAFLEX CLASS O.

ALL PIPEWORK WITHIN FLOOR SCREENED TO BE PLASTIC PIPE-IN-PIPE AND PIPE GUIDES ARE TO BE USED WHERE PIPEWORK SERVES RADIATORS.

FIT LOCKSHIELD VALVE ON RETURN CONNECTION TO ALL RADIATORS WHERE APPLICABLE.

RADIATOR SCHEDULE							
HOUSE TYPE	ROOM REFERENCE	RADIATOR REFERENCE	RAD QUANTITY	RAD WIDTH	RAD HEIGHT	RAD MAKE	RAD MODEL
10	KITCHEN/LIVING/DINING	R1	2	1400	700	MYSON PREMIER COMPACT	TYPE 21
10	BED 2	R2	1	800	700	MYSON PREMIER COMPACT	TYPE 21
10	BED 3	R2	1	800	700	MYSON PREMIER COMPACT	TYPE 21
10	BATHROOM					SERVED BY ELECTRIC RADIATORS	
10	BED 1	R3	1	600	700	MYSON PREMIER COMPACT	TYPE 21
10	LIVING	R3	1	600	700	MYSON PREMIER COMPACT	TYPE 21
10	BATHROOM					SERVED BY ELECTRIC RADIATORS	
10	HALL	R4	1	700	700	MYSON PREMIER COMPACT	TYPE 21
10	HALL	R4	1	700	700	MYSON PREMIER COMPACT	TYPE 21
10	HALL	R4	1	700	700	MYSON PREMIER COMPACT	TYPE 21

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ORDERING RADIATORS.

ALL RADIATOR CONNECTIONS TO BE 15mm CONNECTIONS

FIT THERMOSTATIC RADIATOR VALVE ON RETURN CONNECTION TO ALL RADIATORS EXCEPT THOSE LOCATED IN A ROOM WITH A THERMOSTAT FITTED - THESE RADIATORS SHALL HAVE HAND WHEEL VALVES IN LIEU OF TRVs

RADIATOR VALVES TO BE AN ACCESSIBLE HEIGHT BETWEEN 400-1200mm FROM FFL THROUGHOUT



## PROPOSED MYSON RADIATOR

REV	DESCRIPTION	DRN	CKD	DATE
T02	SECOND ISSUE	CMP	AMK	22.08.23
T01	FIRST ISSUE	CMP	AMK	21.07.23

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info@advancemandedesign.com

advance  
M & E

Advance M&E Design Ltd | 57A Newry Street, Banbridge BT32 3EA

CLIENT  
**DOMVS LONDON**

PROJECT  
**MEWS DEVELOPMENT  
10-24 CANFIELD PLACE  
LONDON NW6 3BT**

DRAWING TITLE  
**HOUSE 10  
HEATING INSTALLATION**

PROJECT No.	DRAWING No.		
1448	ADV-HTG-H10-ZZ		
DATE	SCALE	DRAWN	CHECKED
JUL '23	1:50	CMP	AMK

TENDER ISSUE