

IMAGE 1: STANDARD FLAT PANEL RADIATOR TO BE USED THROUGHOUT, UNLESS SPECIFICALLY NOTED OTHERWISE. FINAL RAL TBC.



IMAGE 2: HISTORIC, AESTHETIC CAST IRON RADIATOR TO BE USED IN HIGHLY DECORATIVE SPACES. FINAL RAL TBC.

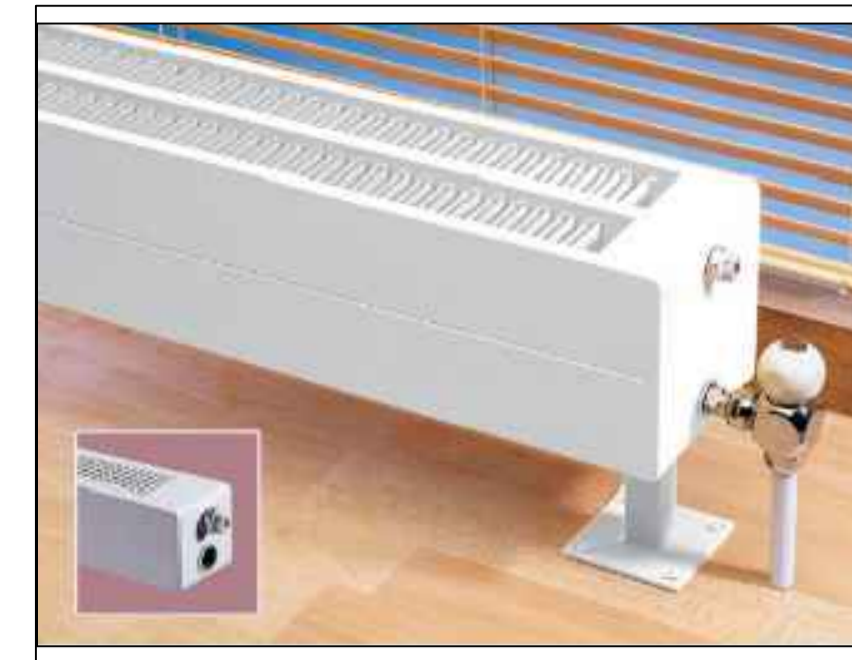


IMAGE 3: DISCRETE CONVECTOR TYPE HEATER TO BE LOCATED UNDER BENCH SEATING. FINAL RAL TBC BY ARCHITECT.

SERVICES AT LOW LEVEL CONCEALED WITHIN FLOOR VOID

PIPEWORK AT L1 TO RUN WITHIN FLOOR VOID CONCEALED FROM VIEW.

LTHW F&R DROPS FROM H/L T/B TO RUN IN CEILING VOID OF FLOOR BELOW. FOR LTHW F&R PIPEWORK DROPPING FROM H/L TO L/L IN BOXING OUT, THE CONTROL VALVE SHALL BE LOCATED IN VERTICAL SECTION. ACCESS PANEL REQUIRED IN BOXING OUT

PIPEWORK ROUTES WITHIN THE CEILING VOID OF FLOOR BELOW

ROOM F09
LTHW F&R DROPS FROM H/L TO L/L IN BOXING OUT WITHIN CORRIDOR AND ROUTES WITHIN EXISTING FLOOR VOID IN ORDER TO MINIMISE VISIBLE SERVICES WITHIN HIGHLY DECORATIVE SPACE AND MINIMISE DISRUPTION TO EXISTING BUILDING FABRIC. PIPEWORK TO RUN PARALLEL TO EXISTING JOISTS TO AVOID CROSSING / NOTCHING JOISTS. HISTORIC AESTHETIC RADIATORS TO BE UTILISED HERE. REFER TO IMAGE 2 FOR EXAMPLE. SERVICES MAY REQUIRE FURTHER COORDINATION IN DETAILED DESIGN WITH ARCHITECT AND STRUCTURAL ENGINEER.

ROOM F10
LTHW F&R DROPS FROM H/L TO L/L IN BOXING OUT WITHIN CORRIDOR AND ROUTES WITHIN EXISTING FLOOR VOID IN ORDER TO MINIMISE VISIBLE SERVICES WITHIN HIGHLY DECORATIVE SPACE AND MINIMISE DISRUPTION TO EXISTING BUILDING FABRIC. PIPEWORK TO RUN PARALLEL TO EXISTING JOISTS TO AVOID CROSSING / NOTCHING JOISTS. HISTORIC AESTHETIC RADIATORS TO BE UTILISED HERE. REFER TO IMAGE 2 FOR EXAMPLE. SERVICES MAY REQUIRE FURTHER COORDINATION IN DETAILED DESIGN WITH ARCHITECT AND STRUCTURAL ENGINEER.

SERVICES TO STAIRCORE TO REQUIRE FURTHER COORDINATION WITH ARCHITECT AND STRUCTURAL ENGINEER IN DETAILED DESIGN

LTHW F&R DROPS FROM H/L TO ROUTE WITHIN FLOOR VOID

HWS, HWSR & CWS DROP TO L/L TO SERVE WHB & WC WITHIN WALL

RISER 1 (TOP - BOTTOM):
• LTHW F&R RISES F/B & T/A
• HWS, HWSR & CWS RISES F/B & T/A

LTHW F&R DROPS TO L/L TO SERVE RADIATOR

HWS, HWSR & CWS DROP TO L/L TO SERVE WHB & WC

LTHW F&R DROPS TO L/L IN BOXING OUT TO SERVE RADIATORS. FOR LTHW F&R PIPEWORK DROPPING FROM H/L TO L/L IN BOXING OUT, THE CONTROL VALVE SHALL BE LOCATED IN VERTICAL SECTION. ACCESS PANEL REQUIRED IN BOXING OUT

LTHW F&R DROPS TO L/L IN BOXING OUT TO SERVE RADIATORS WITHIN CHAPEL. ADDITIONAL COORDINATION MAY BE REQUIRED TO FINALISE PIPEWORK ROUTING. FOR LTHW F&R PIPEWORK DROPPING FROM H/L TO L/L IN BOXING OUT, THE CONTROL VALVE SHALL BE LOCATED IN VERTICAL SECTION.

CHAPEL
LTHW F&R PIPEWORK TO ROUTE AT LOW LEVEL UNDER EXISTING SEATING. DISCRETE RADIATORS TO BE UTILISED HERE TO MATCH EXISTING VARNISH AND FINISH OF PEWS. REFER TO IMAGE 3 FOR EXAMPLE.

LTHW F&R DROPS TO L/L IN BOXING OUT TO SERVE RADIATORS. FOR LTHW F&R PIPEWORK DROPPING FROM H/L TO L/L IN BOXING OUT, THE CONTROL VALVE SHALL BE LOCATED IN VERTICAL SECTION. ACCESS PANEL REQUIRED IN BOXING OUT

RISER 2 (TOP - BOTTOM):
• HWS, HWSR & CWS RISES F/B & T/A c/w L/L BRANCH TO SERVE 2No. SINKS
• LTHW F&R RISES F/B & T/A c/w H/L BRANCH TO SERVE RADS

1:100 @ A1

0 2m 4m 6m 8m 10m 12m

STANDARD NOTES

- DO NOT SCALE FROM THIS DRAWING. CONFIRM ALL DIMENSIONS AND STRUCTURAL INFORMATION ON SITE, IF IN DOUBT ASK BEFORE ACTING.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE APPROPRIATE WBSHIELDS REPORT AND SCHEDULES.

NOTES:

- DRAWING IS BASED ON ARCHITECTURAL DRAWING 001506-ADP-01-B1-DR-A-1000-S2 P-2
- WHERE M&E SERVICES ARE TO BE INSTALLED WITHIN EXISTING CEILING OR WALL VOIDS, THE CONTRACTOR SHALL ALLOW FOR LOCALLY CHASING CEILINGS AND/OR WALLS. ANY CHASING WORKS REQUIRED SHALL BE KEPT TO AN ABSOLUTE MINIMUM TO AVOID DISRUPTION TO EXISTING BUILDING FABRIC WHEREVER POSSIBLE. ANY OPENINGS CREATED IN THE EXISTING WALLS / CEILINGS SHALL BE MADE GOOD UPON COMPLETION OF THE SERVICES INSTALLATION TO MATCH THE EXISTING CONSTRUCTION. REFER TO THE ARCHITECT'S DRAWING PACKAGE FOR DETAILS OF SCOPE OF WORK REQUIRED FOR CHASING CEILINGS / WALLS, LOCATIONS FOR ANY NEW BOXING OUT OR BULKHEADS, AND LOCATIONS FOR ANY OPENING OF CEILINGS / FLOORS / WALLS.
- RADIATOR LOCATIONS ARE SHOWN INDICATIVELY FOR DESIGN INTENT PURPOSES ONLY. FINAL SETTING OUT TO BE CONFIRMED IN DETAILED DESIGN.

SYMBOLS:

- T WALL MOUNTED THERMOSTAT CONTROLLER
- C CO2 SENSOR
- RADIATOR
- o- PIPEWORK DROPPING POINT
- SUPPLY / EXTRACT VENTILATION GRILLE

DRAWING LINE TYPES:

- - - - HIGH LEVEL PIPEWORK
- LOW LEVEL PIPEWORK - EITHER VISIBLE SURFACE MOUNTED OR CONCEALED WITHIN SKIRTING BOXING OUT. (REFER TO ARCHITECT'S DRAWINGS FOR DETAILS)
- - - - LOW LEVEL PIPEWORK - WITHIN FLOOR VOID (PIPEWORK NOT VISIBLE)

PIPEWORK TYPES:

- LTHW (HEATING) F&R PIPEWORK TO SERVE RADIATORS (RED)
- HOT WATER SUPPLY (HWS) PIPEWORK (YELLOW)
- HOT WATER RETURN (HWR) PIPEWORK (ORANGE)
- COLD WATER SUPPLY (CWS) PIPEWORK (BLUE)

ANNOTATIONS

- CWS COLD WATER SUPPLY PIPEWORK
- HWS HOT WATER SUPPLY PIPEWORK
- HWR HOT WATER RETURN PIPEWORK
- LTHW F&R HEATING SYSTEM FLOW & RETURN PIPEWORK
- F/A T/A FROM / TO ABOVE
- F/B T/B FROM / TO BELOW
- H/L L/L HIGH / LOW LEVEL

REV	DATE	BY	DESCRIPTION	CHK	APP
P4	22/09/22	ZS	FOR PLANNING	ZS	ES
P3	14/09/22	ZS	FOR PLANNING	ZS	ES
P2	08/09/22	ZS	DRAFT FOR PLANNING	ZS	ES
P1	05/09/22	ZS	DRAFT FOR PLANNING	ZS	ES

DRAWING STATUS | FOR PLANNING

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PROJECT | **KNELLER HALL FOR PLANNING**

TITLE | **MAIN BUILDING MECHANICAL SERVICES DISTRIBUTION FIRST FLOOR**

DESIGNER | ZS

CHECKED | ES

SCALE | 1:100 @ A1

DRAWN | TDS

DRAWING No | **P2389_50_L1_10**

REV | P4