## Low Temperature Hot Water General Notes:

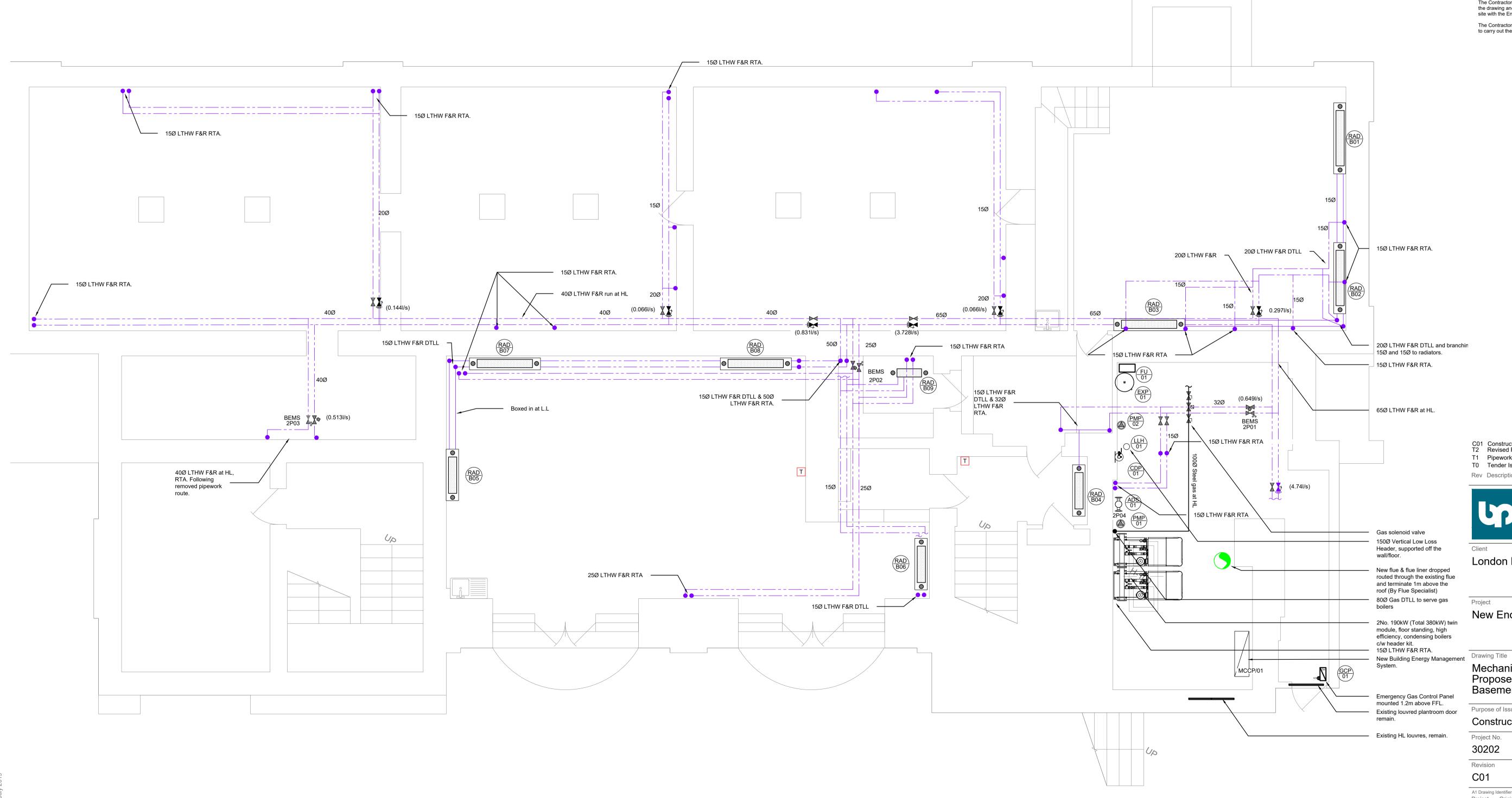
1. LTHW heating pipework shall be carried out in 'press fit' mild steel.

- 2. Drain cocks shall be provided at all low points and equal tee air bottles at high points in accordance with BS 2879. Automatic air vents will be permitted within plant areas only. Inaccessible air vents shall be extended in 15mm copper
- pipework to low level within nearest accessible plant or store area complete with needle valves. 3. All equipment shall be installed in accordance with relevant manufacturers recommendations and accepted good practice. Valve and union connections shall be provided to isolate all equipment.
- 4. Flushing points and drain cocks are to be installed at strategic locations in accordance with the flushing strategy. 5. All LTHW heating systems shall be commissioned by an approved reputable commissioning specialist to achieve the flow rates as detailed and shall be witnessed by the Engineer.
- 6. Refer to heating schematic for provision of isolation and balancing valves. Contractor shall allow for isolation valves where the LTHW F&R pipework rises between floors.
- 7. Ensure all LTHW flow and return pipework hole diameters within floor joists are not greater than 0.25 times the depth of a joist or 65mm and located between 0.25 and 0.4 times the span of the support.
- 8. Where pipework runs up through the stairwells the contractor shall include to boxin the pipework, where new radiators are shown on piers the contract shall include to box out to the radiators.

Radiator Schedule											
Reference	Area Served / Location	Manufacturer	Model	Туре	Width (mm)	Height (mm)	Ambient Temperature (°C)	Room Heat Loss (kW)	Rad Output (kW)	Flow Rate (kg/s)	TRV & LSV
RAD B01	123 MUSIC ROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1600	750	21	-	2.477	0.0295	✓
RAD B02	123 MUSIC ROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1600	750	21	-	2.477	0.0295	✓
RAD B03	123 MUSIC ROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1600	750	21	-	2.477	0.0295	✓
RAD B04	126 CIRCULATION	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1200	1050	19	-	2.514	0.0299	✓
RAD B05	129 CLASSROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1250	650	19	-	2.225	0.0265	✓
RAD B06	129 CLASSROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1250	650	19	-	2.225	0.0265	✓
RAD B07	129 CLASSROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1200	650	19	-	0.994	0.0000	
RAD B08	129 CLASSROOM	SENSOTHERM	SAFERAD LST - MODEL C	SEP2	1200	650	19	-	0.994	0.0000	
RAD B09	STORE	SENSOTHERM	SIL COMPACT	22	800	600	15	-	1.468	0.0000	

1. Radiators selected on 82/71°C LTHW F&R.

"RAD EXC is the existing column radiators. "RAD EXS is the existing steel radiators.



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Refer to the relevant Construction (Design and Management) documentation where

It is assumed that all works on this drawing will be carried out by a competent contractor, working where appropriate to an approved method statement.

and / or specific contractor construction information.

Project Notes

The Contractor shall ascertain the nature of the site, access thereto and all local conditions and restrictions likely to affect the installation. No claim will be considered on the grounds of the lack of site knowledge.

The Contractor shall be responsible for the final coordination of all new and existing services, with the building structure, architecture and fixed furniture and equipment

The Contractor shall allow for all required changes in height and direction not identified on the drawing and the final setting out of all plant, equipment and services shall be agreed on

The Contractor shall be responsible for any temporary access or lifting equipment required

<u>Legend:</u>	
	Services run in Floor Void
	Services at Low Level
	Services at High Level
	Services Within Ceiling Void
Т	Zonal Thermostat linked to BEMS
$\bowtie$	Isolation Valve / Ball Valve
	Commissioning Valve Set
	2-Port Control Valve
<b>2</b> ,	Pressure Independent Control Val
-1777-	Expansion Bellow (by Specialist)
DTLL	Drop to Low Level
RTA	Rise to Above
RFB	Rise From Below
DTB	Drop to Below

JC/JS/BV T0 Tender Issue By / Chk'd / App'd Date Rev Description

JC/JS/BV

Dec'18

London Borough of Camden

C01 Construction Issue T2 Revised Pipework

T1 Pipework Alteration

New End Primary School

Mechanical Services Drawing Proposed Heating Layout Basement Level

Purpose of Issue Status Construction Issue Project No. 30202 11/01/19 1/50 Revision Check By Approved By Drawn By C01

A1 Drawing Identifier BS1192:2007 / Avanti Complian

Project Origin NEP BPC XX B1 DR M 560 0001

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