

Generally:

- This drawing indicates design intent only and provides indicative manifold locations and control zone requirements only. The final pipework arrangement, pipework spacing, zoning, manifold arrangement and pumping strategy is to be provided by the specialist.
- Heating services pipework shall be carried out in 'Press-fit' carbon steel tube.
- All equipment shall be installed in accordance with relevant manufactures recommendations and accepted good practice.

Pump Schedule									
Reference	Manufacturer	Model	Type	No Heads	Electrical Supply	Design Duty (l/s @ kPa)	Selection Duty (kg/s @ kPa)	Bronze	Notes
P1/01	Grundfos	TBC	Twin Shunt Pump - Inverter Driven	2	1Ph / 230V / 50Hz	8.28 l/s @ 35kPa	-	N	High efficiency pump with stainless steel housing
P1/02	Grundfos	TBC	Inverter Driven Twin head HTG VT Heating Pump	2	1Ph / 230V / 50Hz	4.6 l/s @ 90kPa	-	N	High efficiency pump with stainless steel housing

Plant Schedule							
Reference	Manufacturer	Model	Type	Electrical Supply	Output/ Duty	Capacity	Notes
BL 01 & 02	Hamworthy	Wessex ModuMax MK3-97/194V	Gas Condensing, wall mounted twin module boiler	1ph / 230V / 332W	191.4kW	95% COP	Stainless steel heat exchanger; max. NOx 40mg/kWh
PRE 001	Mikrofil	Mikrofil 3	unvented pressurisation unit	1ph / 230V / 3A	3,000ltr system volume	-	c/w expansion vessel
DP/01	Boss	Dosing Pot	stainless steel	N/A	-	6ltr	

Notes

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All other design team elements, where indicated, have been checked from the consultant's drawings and reference should be made to the individual consultant's drawings for exact setting out, size and type of component.

Discrepancies and / or ambiguities within this drawing, between it and information given elsewhere, must be reported immediately to the engineers for clarification before proceeding.

All works are to be carried out in accordance with the latest British Standards and Codes of Practice unless specifically directed otherwise in the specification.

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
Refer to the relevant Construction (Design and Management) documentation where applicable.

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.

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.

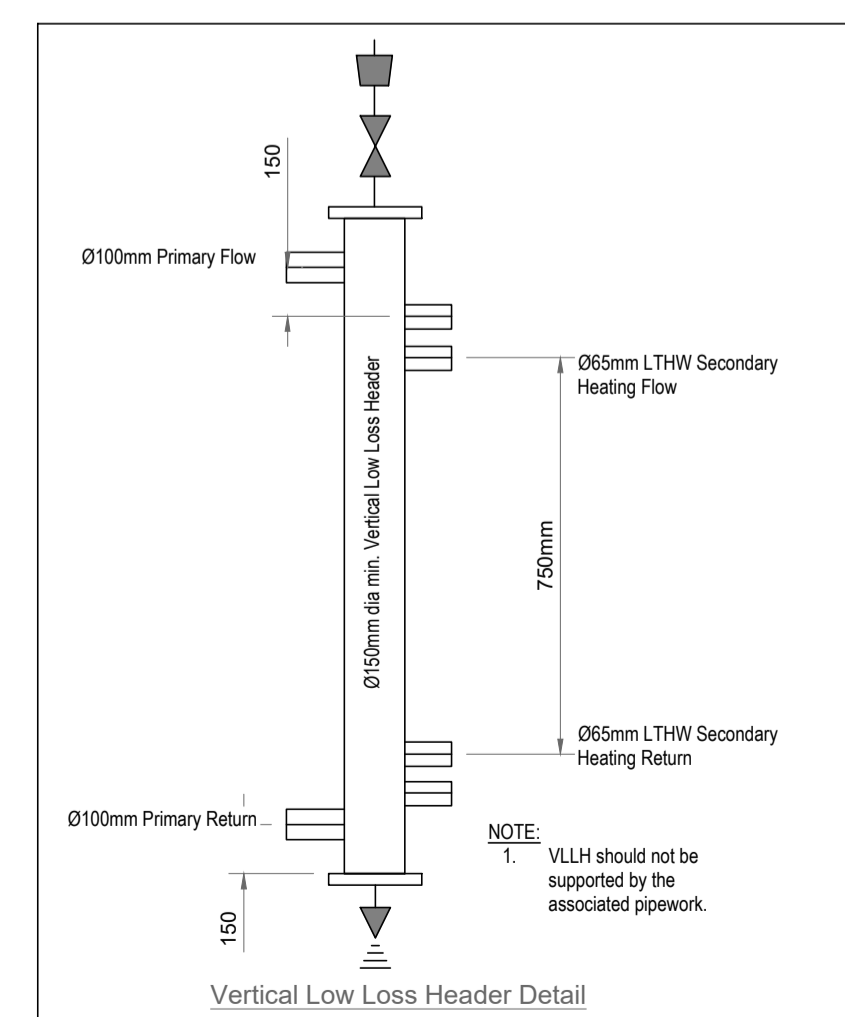
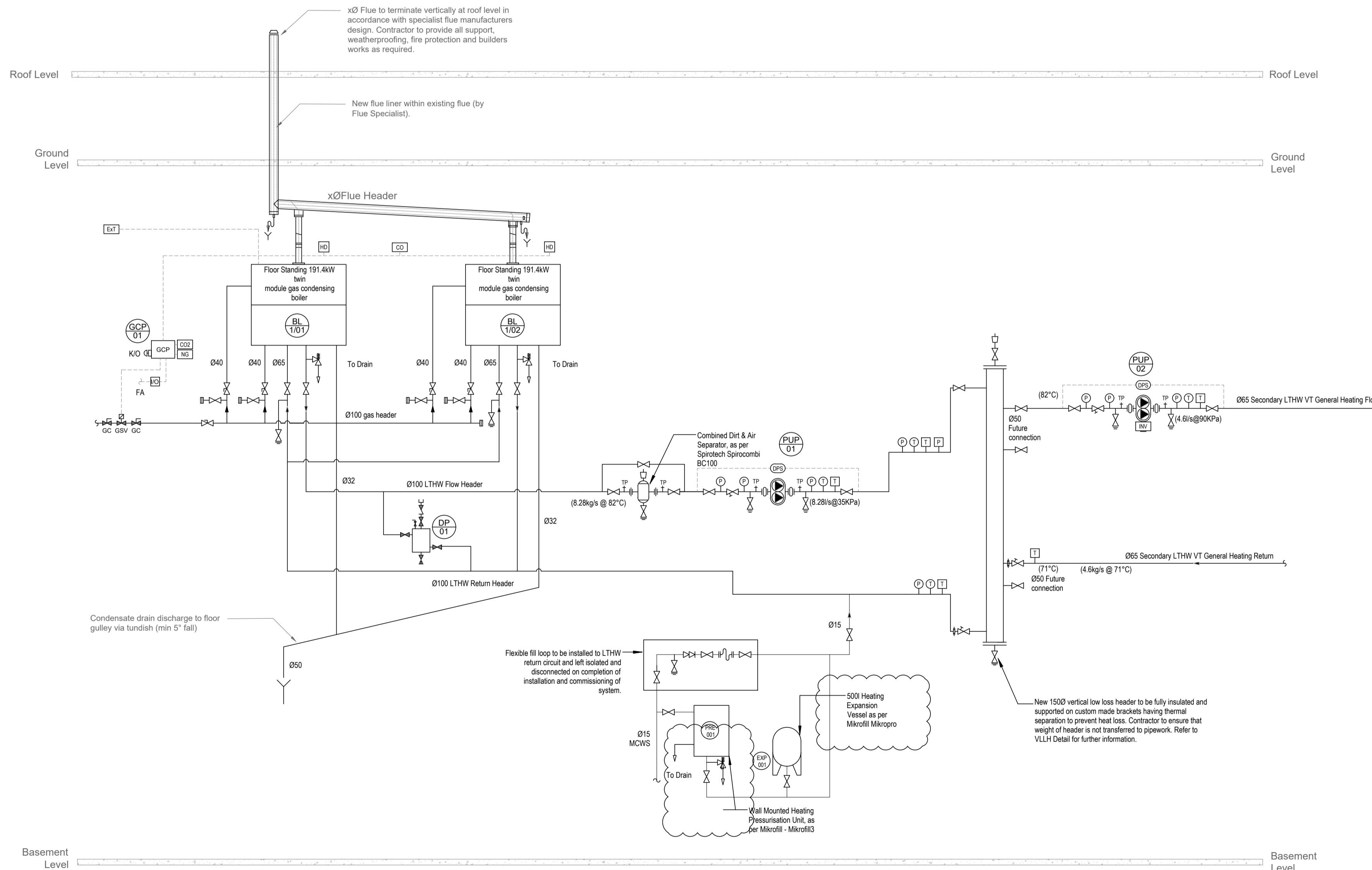
The Contractor shall be responsible for the final coordination of all new and existing services, with the building structure, architecture and fixed furniture and equipment.

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 site with the Engineer.

The Contractor shall be responsible for any temporary access or lifting equipment required to carry out the works.

Legend:

- Zonal Thermostat linked to BEMS
- Isolation Valve / Ball Valve
- Commissioning Valve Set
- 2-Port Control Valve
- Pressure Independent Control Valve
- Expansion Bellow (by Specialist)
- DTLL Drop to Low Level
- RTA Rise to Above
- RFB Rise From Below
- DTB Drop to Below



T1	Pipework Alterations	JC/US/BV	24.01.19
T0	Tender Issue	JC/UC/BV	Dec'18
Rev	Description	By / Chk'd / App'd	Date



Client
London Borough of Camden

Project
New End Primary School

Drawing Title
**Mechanical Services Drawing
Plantroom Schematic**

Purpose of Issue		Status	
Tender Issue		S2	
Project No.	Scale @ A1	Date	
30202	1/50	Dec'18	
Revision	Drawn By	Check By	Approved By
T1	JC	JS	BV

A1 Drawing Identifier
Project: Origin Zone Level Type Role Class Number
NEP BPC XX ZZ DR M 500 0002

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