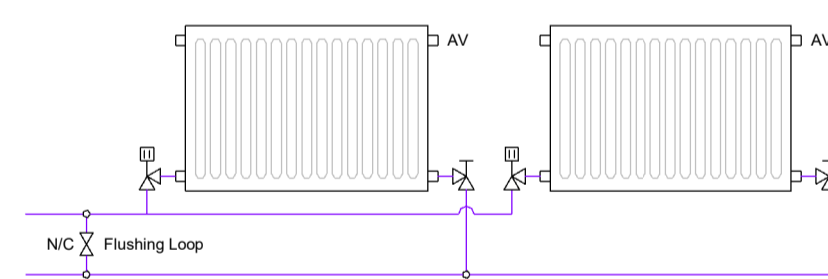


| Heating Services | |
|------------------|-----------------|
| Symbol | Description |
| | Isolation Valve |
| | Room Thermostat |

| General Pipework Annotation | |
|-----------------------------|------------------------------|
| Symbol | Description |
| | Services Below Ground |
| | Services at Low Level |
| | Services at High Level |
| | Services Within Ceiling Void |
| | Capped Connection |
| | Pipework Continuation |
| | New LTHW-F Pipework |
| | New LTHW-R Pipework |
| | Existing Pipework |

| Abbreviations | |
|---------------|-------------------|
| Abbr. | Description |
| DTLL | Drop to Low Level |
| RTA | Rise to Above |
| RFB | Rise from Below |
| DTB | Down to Below |
| CV | Ceiling Void |
| IV | Isolation Valve |



Typical Radiator Arrangement

Low Temperature Hot Water General Notes (Steel Pipework):

- LPHW heating pipework shall be carried out in kitemarked copper tube to BS EN 1057 grade R250 complete with lead free pre-soldered capillary fittings and brass munson type split ring brackets and rectangular back plates. Compression fittings are permitted for final connections to equipment only.
- Heating pipework within ceiling voids, service risers, service ducts, boxing, plantrooms, etc. shall be insulated with foil faced rigid phenolic foam to achieve a minimum performance of 0.021 W/mK and installed to the thickness identified within BS 5422. Pipework insulation within plant rooms shall be finished with purpose made hammer finished aluminium cladding. Surface mounted pipework shall be finished with two coats of gloss paint to the Architects requirements.
- 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.
- All pipework penetrations through walls/floors shall be sleeved with suitably sized sleeves (steel on LPHW pipework services). Those penetrations through fire compartmentation lines shall also be sleeved and finished with intumescent sealant.
- 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.
- Unless specified all radiators are to be installed with outside tappings and piped 'bottom opposite ends' with thermostatic radiator valves installed on the flow connections and lockshield valves on the return connections.
- All electrical works associated with the mechanical installation shall be carried out by the Electrical Contractor.
- All LPHW 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.
- Flushing points to be installed at strategic locations in accordance with the Flushing Strategy.
- Final location of all sensors to be agreed.

Notes

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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

| | | | |
|-----|--------------|----------------|----------|
| P01 | Tender Issue | DJ/SC/SC | 26/02/24 |
| Rev | Description | By/Chk'd/App'd | Date |



Client
Torbay Council

Project
Paignton Academy - SEND

Drawing Title
**Space Heating Services
STEPS - Heating**

| | | |
|---------------------------|---------------------------|------------|
| Suitability - Status Code | Suitability - Description | |
| S4 | TENDER | |
| Internal Project No. | Scale @ A1 | Revision |
| 35432 | 1:50 | P01 |