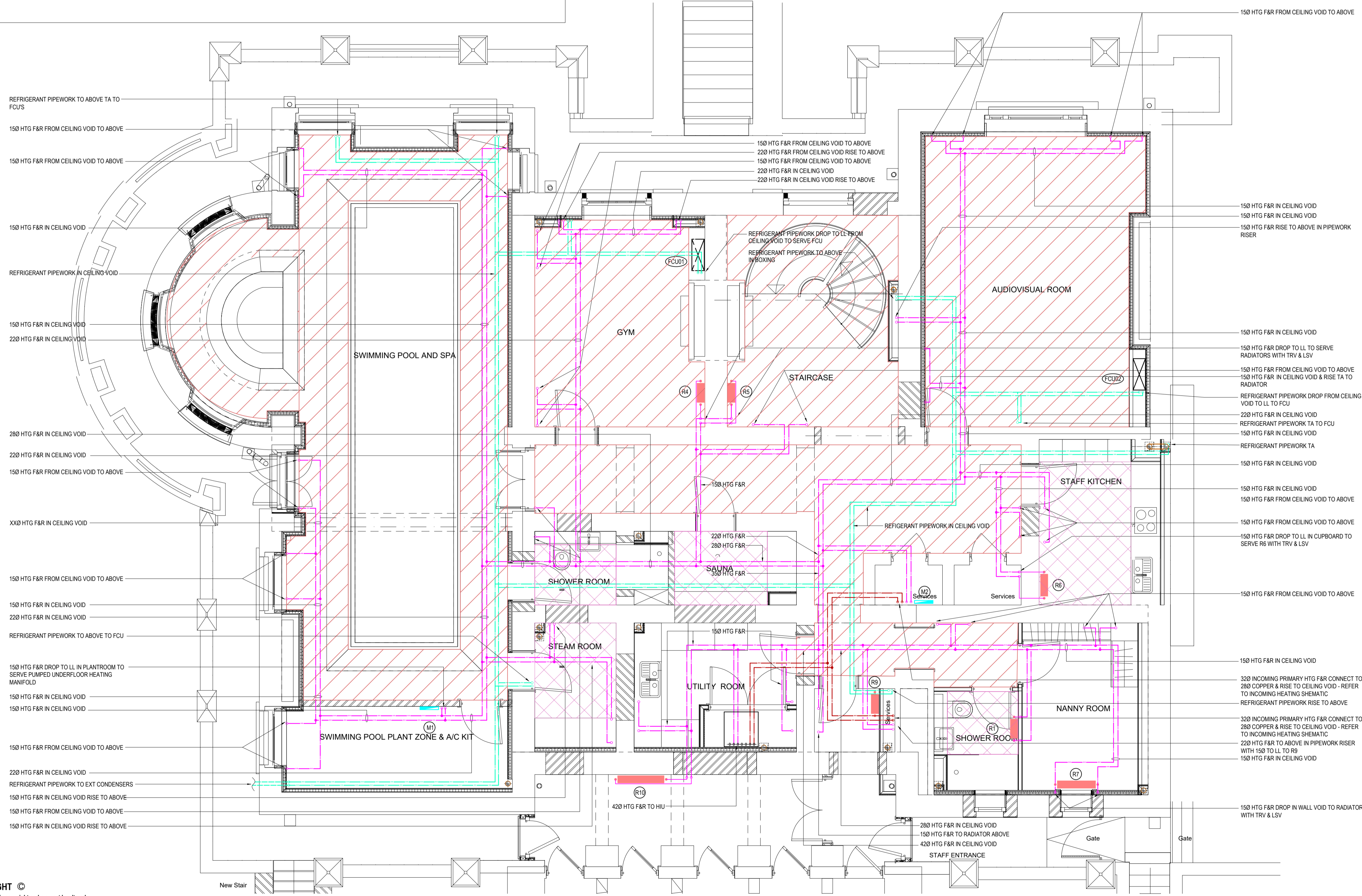


Typical Radiator

Legend	
HTG	- Heating
F&R	- Flow & return
HIU	- Heat interface unit
UFHM	- Underfloor heating manifold
	- Primary Heating pipework
	- Secondary Heating pipework
	- Pipework within ceiling void
	- Pipework at high level
	- Pipework at low level
	- Pipework within floor void
	- Thermostat / controller
	- Underfloor heating manifold
	- Electric underfloor heating
	- 'Wet' underfloor heating
	- Timber joist direction

- ### Notes
- This drawing shall be read in conjunction with all Mechanical and Electrical drawings, Schedules and Specification.
  - Contractor to allow for on site co-ordination with the structure and other services and the production of fully dimensioned working drawings prior to installation.
  - All equipment to be installed in accordance with the manufacturers instructions.
  - All notched joists will be wrapped with hair felt lagging and the top of the notch to be mechanically protected
  - All pipework penetrations to be sleeved.
  - Drain off's to be fitted at low points.
  - Air vents to be fitted on all high points.
  - Commissioning set to be fitted on the return from each underfloor heating manifold.
  - Primary Heating flow and return temperatures 71/31°C.
  - All Plant to be commissioned by manufacturer or approved installer.
  - For further pipework details & valve arrangements refer to schematic drawing.
  - All pipework penetrations through any structure to be sleeved with oversized tube of same material.
  - All radiators to be fitted with adjustable TRV's.
  - All pipework and valves to be insulated.
  - Access panels to be installed by main contractor to allow access to all valves.
  - All steel pipework to be stainless steel grade 304.
  - All pipework to be earth bonded.
  - All gaps between pipework & sleeves to be fitted with fire resistant sealant.
  - All pressure gauges to be connected by pigtails.
  - All temperature gauges to be installed in a stainless steel pocket with heat conducting compound.
  - All pipework to run to fall to from bends & vents to aid draining & venting.
  - Commissioning set to be fitted on the return from each manifold.
  - Screed underfloor heating flow and return temperatures 45/37.5°C. (Pumped manifold)
  - Joisted underfloor heating flow and return to be 55/47.5°C (Pumped manifold)
  - Radiator circuit flow and return temperatures 65/45°C
  - All equipment to be commissioned by manufacturer or approved installer.
  - Thermostat / controller to be mounted at 1200mm above FFL



FOR PLANNING

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**RELATED DOCUMENTS**  
This drawing should be read with the appropriate Specification (a) and Schedule (a) and all other standard documentation.

**WARNING**  
Do Not Scale from this drawing. Verify all dimensions, levels and structural details on site.

REVISIONS			CLIENT	CONSULTING ENGINEER	CONTRACT	DRAWING TITLE
P01	29/11/18	Preliminary for discussion	Mount Anvil 140 Aldersgate Street London	C Watkins	Kidderpore Hall Kidderpore Avenue London NW3	Lower Ground Floor Heating & Cooling Layout
P02	17/12/18	Updated to Architects comments. Background updated. Issued for Planning submission.				

DATE	29/10/18	DRAWN	KN
SCALE	1:50 @ A1	APP.	CW
DRG No.	6003-DRG-38KH-LG01		Rev P02