

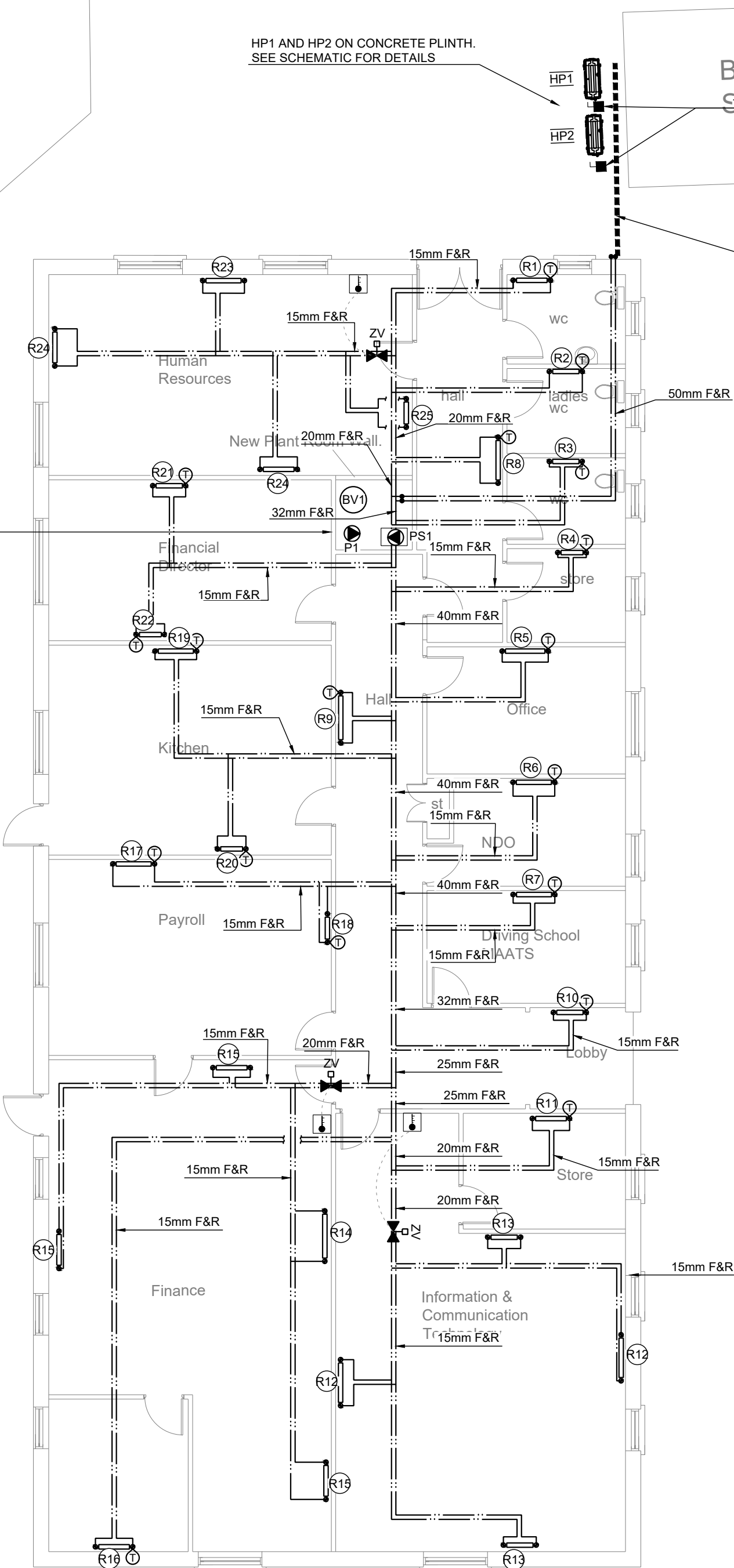
Administration Building

HP1 AND HP2 ON CONCRETE PLINTH.
SEE SCHEMATIC FOR DETAILS

Boiler
36A SPN ISOLATOR

50mm F&R IN TO BE RUN IN 1620 CALPEX
UNDERGROUND DUCT TO BUILDING. 50mm
F&R RTHL IN GB AND ENTER BUILDING
HERE. ALL EXPOSED PIPEWORK TO BE
INSULATED

SEE SCHEMATIC DRAWINGS FOR
DETAIL VALVE ARRANGEMENT IN THE
PLANTROOM



MOTORIZED ZONE VALVE SPECIFICATION (OR EQUAL AND PRIOR APPROVED)

MANUFACTURER:	BELIMO
MODEL:	QCV COMPACT ZONE VALVE (15 OR 22MM)
FEATURES:	MANUALLY ADJUSTABLE KV, TIGHT SEALING, 230V ACTUATOR

WALL THERMOSTAT SPECIFICATION (OR EQUAL AND PRIOR APPROVED)

MANUFACTURER:	HONEYWELL
MODEL:	T6360-1028 MECHANICAL WALL THERMOSTAT
FEATURES:	230V, 3-WIRE INSTALLATION, DUAL DIAPHRAGM TEMPERATURE SENSING ELEMENT

SCHEDULE OF HEATING SYSTEM PRESSURISATION & EXPANSION SYSTEM

REFERENCE:	PSU1
MAKE:	GRUNDFOS
MODEL:	PHT A F225 UC C/W GT-HR-80 PN6 R1 EXPANSION VESSEL

SPECIFICATION OF BUFFER VESSEL (REF: BV1)

REFERENCE:	BV1
MAKE:	TML
CAPACITY:	300 LITRES
MODEL:	PF 00300R 300 LITRE HARD FOAM INSULATION

SPECIFICATION OF HEAT PUMP HP1 & HP2

12KW LG HEAT PUMP HM121M UB40 (R32)
COP HEATING 7 / 35°C 4.9
COP HEATING 7 / 55°C 2.9
COP HEATING 2 / 35°C 3.6
DIMENSIONS 1320mm (W) 1019mm (H) 520mm (D)
POWER 1PH 50HZ

SCHEDULE OF LPHW PUMP (GRUNDFOS) (OR EQUAL AND PRIOR APPROVED)

PUMP REF	SERVING	TYPE	POWER	DUTIES
P1	CIRCUIT 1	MAGNA3 25-60	230/1/50	1.1KG/S V3.5M HEAD

SCHEDULE OF RADIATORS (MERRIOTT) (OR EQUAL AND PRIOR APPROVED)

Location	Ref	Model	Type	Height	Length	Depth	Output @DT45
WC	R1	Precision Horizontal	H21	650	700	78	565
LADIES WC	R2	Precision Horizontal	H21	650	600	78	484
WC	R3	Precision Horizontal	H21	650	600	78	484
STORE	R4	Precision Horizontal	H11	650	500	69	293
OFFICE	R5	Precision Horizontal	H21	650	900	78	726
NDO	R6	Precision Horizontal	H21	650	800	78	646
DRIVING SCHOOL	R7	Precision Horizontal	H21	650	800	78	646
FRONT HALL	R8	Precision Horizontal	H21	650	900	78	726
CENTRAL HALL	R9	Precision Horizontal	H21	650	1000	78	807
LOBBY	R10	Precision Horizontal	H21	650	600	78	484
OFFICE/STORE	R11	Precision Horizontal	H21	650	700	78	585
IT	R12	Precision Horizontal	H22S	650	900	118	977
IT	R13	Precision Horizontal	H22S	650	600	118	651
FINANCE	R14	Precision Horizontal	H22S	650	1000	118	1085
FINANCE	R15	Precision Horizontal	H22S	650	700	118	760
STORE	R16	Precision Horizontal	H22S	650	700	118	760
PAYROLL	R17	Precision Horizontal	H22S	650	800	118	869
PAYROLL	R18	Precision Horizontal	H22S	650	500	118	543
KITCHEN	R19	Precision Horizontal	H22S	650	800	118	869
KITCHEN	R20	Precision Horizontal	H22S	650	500	118	543
FINANCE DIRECTOR	R21	Precision Horizontal	H22S	650	600	118	651
FINANCE DIRECTOR	R22	Precision Horizontal	H22S	650	500	118	543
HR	R23	Precision Horizontal	H11	650	800	69	468
HR	R24	Precision Horizontal	H11	650	700	69	409
HR	R25	Precision Horizontal	H11	650	500	69	293

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General notes:

This drawing to be read in conjunction with all relevant architectural drawings and specifications.

This drawing to be read in conjunction with all relevant structural drawings and specifications.

This drawing to be read in conjunction with all relevant mechanical and electrical drawings and specifications.

All dimensions in millimeters, do not scale from this drawing, only use figured dimensions only.

Contractor must verify all dimensions on site prior to installation of services and production of working drawings.

Standard notes:

- Manual air vents to be provided at high points of system
- All radiators to be checked on site prior to ordering to ensure they can be accommodated within the space provided
- All radiators to be complete with thermostatic radiator valves
- All low level pipe runs to be boxed out as per existing installation. All exposed pipe to be painted.
- All main heating distribution pipework to be completed in Carbon Steel tubing c/w presst (Gebent or Equal approved) joints as per specification unless otherwise stated
- Please refer to schematics for full details of pipe sizes & valve arrangements in plantroom areas
- The entire existing heating system is to be isolated, drained, cutback and removed from site, including all visible pipework, radiators, valves & insulation. Heating pipework below floor level can remain on site. The existing obsolete boiler, burner flue, pump sets and pipes to be completely stripped out and cut back and removed from site in its entirety.
- Existing gas supply to boilers to be isolated, purged, cutback and removed back to tanks.

Legend:

SYMBOL	DESCRIPTION
---	PIPEWORK IN FLOOR VOID
---	PIPEWORK AT LOW LEVEL
---	PIPEWORK AT HIGH LEVEL
---	PIPEWORK IN CEILING VOID
---	PANEL RADIATOR C/W TRV
---	PANEL RADIATOR
F&R	FLOW & RETURN
IV	ISOLATING VALVE
AFFL	ABOVE FINISHED FLOOR LEVEL
DTLL	DOWN TO LOW LEVEL
RTHL	RISE TO HIGH LEVEL
TA	TO ABOVE
TB	TO BELOW
FA	FROM ABOVE
FB	FROM BELOW
TRV	THERMOSTATIC RADIATOR VALVE
AAV	AUTOMATIC AIR VENT
(R)	RADIATOR REFERENCE NUMBER