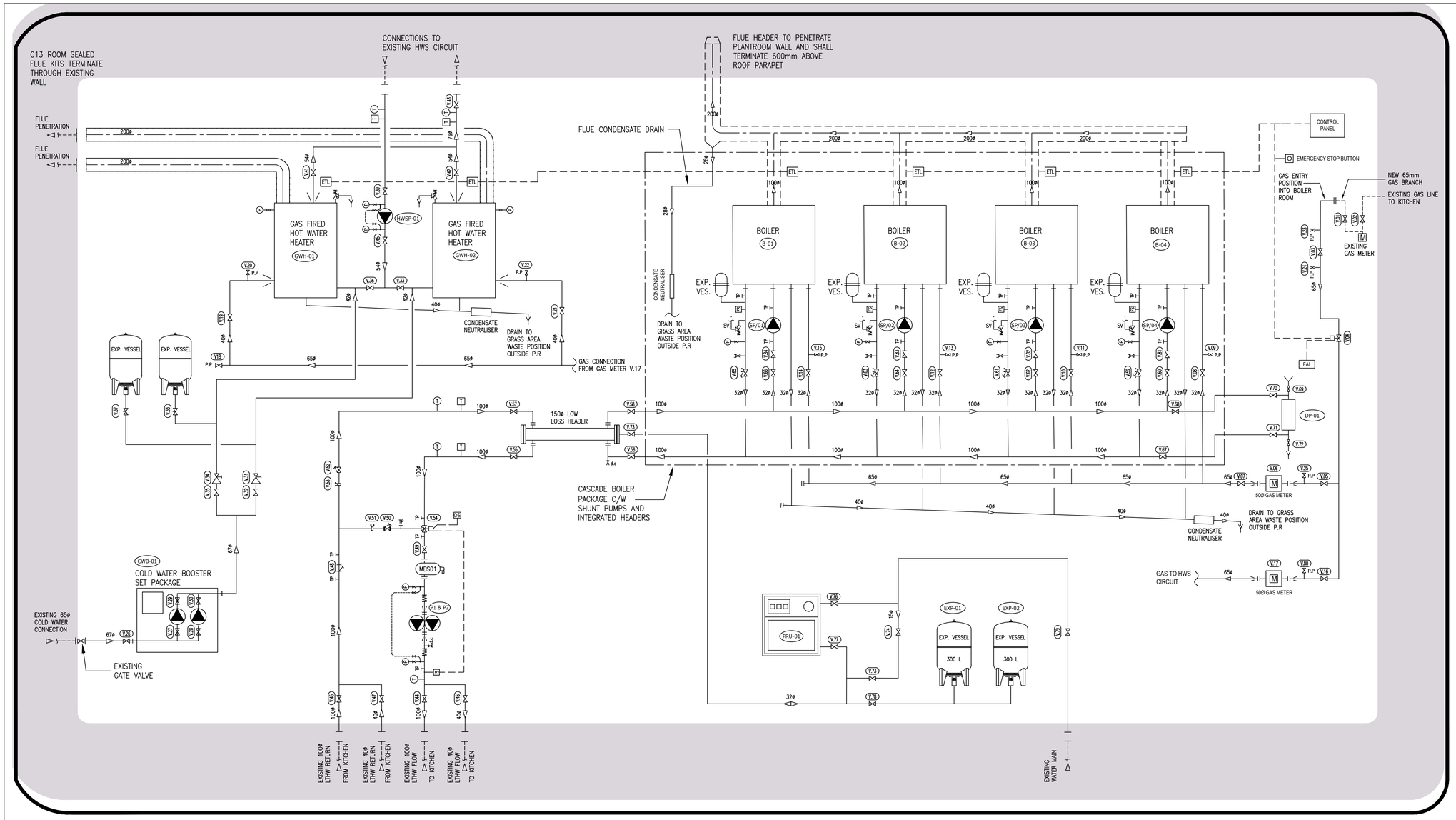

LEGEND

P	–	ALTITUDE GAUGE
T	–	TEMPERATURE GAUGE
TP	–	TEST POINT
S	–	CONTROLS SENSOR
T	–	CONTROLS THERMOSTAT
p.p	–	PLUGGED GAS PURGE POINT
d.c	–	DRAIN COCK
AAV	–	AIR VENT
SV	–	SAFETY VALVE
PTRV	–	PRESSURE, TEMPERATURE RELIEF VALVE
	–	AUTOMATIC BY-PASS VALVE
	–	3-PORT MOTORISED VALVE
	–	2-PORT MOTORISED VALVE
	–	DOUBLE REGULATING VALVE
	–	DOUBLE CHECK VALVE
	–	COMMISSIONING STATION
	–	ISOLATING VALVE
	–	STRAINER
	–	CHECK VALVE
	–	PRESSURE REDUCING VALVE
AAV	–	AUTOMATIC AIR VENT
	–	TUNDISH

NOTES

1. AIR VENTS INSTALLED TO ALL SYSTEM HIGH POINTS.
2. DRAIN COCKS INSTALLED TO ALL SYSTEM LOW POINTS.
3. DRAIN COCK DEAD LEGS NOT EXCEEDING 150mm.

GAS VALVE SCHEDULE

Ref.	Service/Location	Type of Valve	Model Ref.	Size	Manufacturer
V.01	GAS METER ROOM/KITCHEN ISO.	BUTTERFLY	FIG.971	65	HATTERSLEY
V.02	GAS METER ROOM/BOILER.RM ISO.	BUTTERFLY	FIG.971	65	HATTERSLEY
V.03	BOILER ROOM ISOLATION	BUTTERFLY	FIG.971	65	HATTERSLEY
V.04	BOILER ROOM ISOLATION	SOLENOID	GCA1007	65	DMS METER SOLUTIONS
V.05	BOILER ISOLATION	BUTTERFLY	HV-BF-FLL-GAS-07	65	HERZ
V.06	BOILER METER	METER	ELST1010	50	DMS METER SOLUTIONS
V.07	BOILER ISOLATION	BUTTERFLY	HV-BF-FLL-GAS-07	65	HERZ
V.08	BOILER 4 ISOLATION	BALL	FIG.100YL	32	HATTERSLEY
V.09	BOILER 4 PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.10	BOILER 3 ISOLATION	BALL	FIG.100YL	32	HATTERSLEY
V.11	BOILER 3 PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.12	BOILER 2 ISOLATION	BALL	FIG.100YL	32	HATTERSLEY
V.13	BOILER 2 PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.14	BOILER 1 ISOLATION	BALL	FIG.100YL	32	HATTERSLEY
V.15	BOILER 1 PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.16	WATER HEATER'S ISOLATION	BUTTERFLY	FIG.971	65	HATTERSLEY
V.17	WATER HEATER'S METER	METER	ELST1010	50	DMS METER SOLUTIONS
V.18	PURGE POINT	BALL	FIG.100YL	25	HATTERSLEY
V.19	WATER HEATER 01 ISOLATION	BALL	FIG.100YL	40	HATTERSLEY
V.20	WATER HEATER 01 PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.21	WATER HEATER 02 ISOLATION	BALL	FIG.100YL	40	HATTERSLEY
V.22	WATER HEATER 02 PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.23	PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.24	PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.25	PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY
V.80	PURGE POINT	BALL	FIG.100YL	20	HATTERSLEY

HWS VALVE SCHEDULE

Ref.	Service/Location	Type of Valve	Model Ref.	Size	Manufacturer
V.26	INCOMING CWS : ISOLATION	BUTTERFLY	FIG.970	80	HATTERSLEY
V.27	BOOSTER PUMP 01 SUCTION ISO.	BALL		50	GIACOMINI
V.28	BOOSTER PUMP 02 SUCTION ISO.	BALL		50	GIACOMINI
V.29	BOOSTER PUMP 01 DISCHARGE ISO.	BALL		50	GIACOMINI
V.30	BOOSTER PUMP 02 DISCHARGE ISO.	BALL		50	GIACOMINI
V.31	HWS 01 CWS COLD FEED: ISO.	BALL	FIG.100	28	HATTERSLEY
V.32	HWS 01 COMBI VALVE			28	HAMWORTHY
V.33	HWS 01 RETURN : ISOLATION	BALL	FIG.100	42	HATTERSLEY
V.34	HWS 02 CWS COLD FEED	BALL	FIG.100	28	HATTERSLEY
V.35	HWS 02 COMBI VALVE	BALL		28	HAMWORTHY
V.36	HWS 02 RETURN : ISOLATION	BALL	FIG.100	42	HATTERSLEY
V.37	HWS 01 PRESSURE VESSEL ISO.	LSV	FIG.100CLS	22	HATTERSLEY
V.38	HWS 02 PRESSURE VESSEL ISO.	LSV	FIG.100CLS	22	HATTERSLEY
V.39	HWS COMMON RETURN : ISO.	BALL	FIG.100	50	HATTERSLEY
V.40	HWS COMMON RETURN : ISO.	BALL	FIG.100	50	HATTERSLEY
V.41	HWS 01 FLOW : ISOLATION	BALL	FIG.100	50	HATTERSLEY
V.42	HWS 02 FLOW : ISOLATION	BALL	FIG.100	50	HATTERSLEY
V.43	HWS COMMON FLOW : ISO	BUTTERFLY	FIG.100	80	HATTERSLEY

LTHW VALVE SCHEDULE

Ref.	Service/Location	Type of Valve	Model Ref.	Size	Manufacturer
V.44	LTHW FLOW BOILER ROOM ISO.	BUTTERFLY	FIG.970	100	HATTERSLEY
V.45	LTHW RETURN BOILER ROOM	BUTTERFLY	FIG.970	100	HATTERSLEY
V.46	LTHW FLOW KITCHEN ISO.	BALL	FIG.100	50	HATTERSLEY
V.47	LTHW RETURN KITCHEN ISO.	BALL	FIG.100	50	HATTERSLEY
V.48	LTHW RETURN : STRAINER	STRAINER	FIG.822	100	HATTERSLEY
V.49	LTHW FLOW : ISOLATION	BUTTERFLY	FIG.970	100	HATTERSLEY
V.50	LTHW BYPASS : DRV	BUTTERFLY	BF-DR-FLG-09	100	HERZ
V.51	LTHW BYPASS : METERING	ORIFICE	HV2740-09	100	HERZ
V.52	LTHW RETURN : DRV	BUTTERFLY	BF-DR-FLG-09	100	HERZ
V.53	LTHW RETURN : METERING	ORIFICE PLATE	HV2740-09	100	HERZ
V.54	3 PORT CONTROL VALVE	3 PORT	M3P100FY	100	SIEMENS

LTHW VALVE SCHEDULE

Ref.	Service/Location	Type of Valve	Model Ref.	Size	Manufacturer
V.55	LTHW FLOW : ISOLATION	BUTTERFLY	FIG.970	100	HATTERSLEY
V.56	LTHW RETURN : ISOLATION	BUTTERFLY	FIG.970	100	HATTERSLEY
V.57	LTHW FLOW : ISOLATION	BUTTERFLY	FIG.970	100	HATTERSLEY
V.58	LTHW RETURN : ISOLATION	BUTTERFLY	FIG.970	100	HATTERSLEY
V.59	BOILER NO.4 COMMISSIONING SET	FODRV	FIG.1732	32	HATTERSLEY
V.60	BOILER NO.4 : ISOLATION	BALL	FIG.100	32	HATTERSLEY
V.61	BOILER NO.3 COMMISSIONING SET	FODRV	FIG.1732	32	HATTERSLEY
V.62	BOILER NO.3 : ISOLATION	BALL	FIG.100	32	HATTERSLEY
V.63	BOILER NO.2 COMMISSIONING SET	FODRV	FIG.1732	32	HATTERSLEY
V.64	BOILER NO.2 : ISOLATION	BALL	FIG.100	32	HATTERSLEY
V.65	BOILER NO.1 COMMISSIONING SET	FODRV	FIG.1732	32	HATTERSLEY
V.66	BOILER NO.1 : ISOLATION	BALL	FIG.100	32	HATTERSLEY
V.67	DOSING/FLUSHING FLOW: ISO.	BALL	FIG.100	50	HATTERSLEY
V.68	DOSING/FLUSHING RETURN: ISO.	BALL	FIG.100	50	HATTERSLEY
V.69	DOSING POT: ISOLATION	BALL	BBV21	28	JET
V.70	DOSING POT: FLOW ISOLATION	BALL	BBV21	28	JET
V.71	DOSING POT: RETURN ISOLATION	BALL	BBV21	28	JET
V.72	DOSING POT: DRAIN	BALL	BBV21	28	JET
V.73	LTHW PRESSURISATION: ISOLATION	LOCKSHIELD	FIG.100CLS	32	HATTERSLEY
V.74	LTHW: QUICKFILL ISOLATION	BALL	FIG.100	15	HATTERSLEY
V.75	LTHW: QUICKFILL ISOLATION	BALL	FIG.100	15	HATTERSLEY
V.76	PRESSURISATION UNIT: ISOLATION	BALL	FIG.100	15	HATTERSLEY
V.77	PU DISCHARGE: ISOLATION	BALL	FIG.100	15	HATTERSLEY
V.78	PU EXP.VESSEL: ISOLATION	LOCKSHIELD	FIG.100	35	HATTERSLEY
V.79	PU FEED: ISOLATION	BALL	FIG.100	22	HATTERSLEY
V.81	BOILER NO.4 NRV	NRV	FIG.42	32	HATTERSLEY
V.82	BOILER NO.3 NRV	NRV	FIG.42	32	HATTERSLEY
V.83	BOILER NO.2 NRV	NRV	FIG.42	32	HATTERSLEY
V.84	BOILER NO.1 NRV	NRV	FIG.42	32	HATTERSLEY

SCHEDULE OF EQUIPMENT

B-01, B-02, B-03, B-04 — LTHW BOILER – 4 TOTAL
MAKE – REMEHA
MODEL – QUINTA ACE 90
OUTPUT – 336.4 kW (TOTAL MAX)

SP/01, SP/02, SP/03, SP/04 — BOILER SHUNT PUMPS – 4 TOTAL
MAKE – GRUNDFOS
MODEL – MAGNA3 40-80F
OUTPUT – 274W (MAX)
P.HEAD – 50kPa

P1, P2 — LTHW SECONDARY CIRCUIT PUMP – TWIN PUMP
MAKE – GRUNDFOS
MODEL – MAGNA3 65-150 F
OUTPUT – 1409W
P.HEAD – 120 kPa

CWB-01 — COLD WATER BOOSTER PUMP – 1 TOTAL
MAKE – GRUNDFOS
MODEL – HYDRO MULTI-B/E 2 CME 10-1
P.HEAD – 100 kPa

PRU-01 — PRESSURISATION UNIT – 1 TOTAL
MAKE – LOWARA
MODEL – PRESSFIX

GWH-01, GWH-02 — WATER HEATERS – 2 TOTAL
MAKE – DR-FC EVO120
MODEL – HAMWORTHY
VOLUME – 504 LITRES

HWSP-01 — HWS SECONDARY CIRCULATION PUMP – 1 TOTAL
MAKE – GRUNDFOS
MODEL – MAGNA3 40-80 F N
P.HEAD – 50 kPa

EXP-01, EXP-01 — EXPANSION VESSEL – 2 TOTAL
MODEL – XVES100140
CAPACITY – 300 LITRES

DP-01 — DOSING POT – 1 TOTAL

Revision	Date	By	Description

DRAWING STATUS:

AS FITTED

CLIENT : RAVENSCOTE SCHOOL

PROJECT : PLANT ROOM DESIGN

DRAWING TITLE : PLANT ROOM SCHEMATIC

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