LEGEND

RAD/CON — RADIATOR REFERENCE NUMBER

EXISTING RADIATOR

PICV

LEGEND

MECHANICAL PLANT
GAS SERVICE
MAINS COLD WATER SERVICE
BOOSTED COLD WATER SERVICE
DOMESTIC HOT WATER SERVICE
LOW TEMPERATURE HOT WATER CONSTANT TEMPERATURE CIRCUIT
FLUE
ISOLATION VALVE — IV
ISOLATION VALVE NORMALLY CLOSED — IV (NVC)
PRESSURE REDUCING VALVE — PRV
AUTOMATIC AIR VENT — AAV
ANGLED SAFETY VALVE — SFV
FLOAT OPERATED VALVE — FOV
COMMISSIONING SET — CSS
2-PORT VALVE — MV
NON-RETURN VALVE — NRV
DRAIN CONNECTION — DRAIN
EXPANSION RELIEF VALVE — ERV
STRAINER — STR
STOP COCK — SC
WATER METER
PUMP SET
PRESSURE INDICATOR GAUGE
TEMPERATURE INDICATOR GAUGE
TEST POINT
LEVEL SENSOR/TRANSMITTER — LIS
TEMPERATURE SENSOR/TRANSMITTER — TIS
HEAT METER — HM
THERMAL STORE SPARGE PIPE

LIS | KVV
SM | PM AS

6 BAR BURSTING DISC
INSTALLED AT THE LOWEST POINT
DIRECTLY AFTER THE HEAT PUMP

6 BAR BURSTING DISC
INSTALLED AT THE LOWEST POINT
DIRECTLY AFTER THE HEAT PUMP

IV
STR
NRV 70°C
30°C

0.45 l/s 75kW
32Ømm 83 Pa/m

0.45 l/s 75kW
32Ømm 83 Pa/m

PIPEWORK RUNS BELOW GROUND

0.9 l/s 150kW
50Ømm 52 Pa/m

0.9 l/s 150kW
40Ømm 138 Pa/m

70°C
30°C

1500 LITRE BUFFER VESSEL

SIDE STREAM FILTRATION UNIT

HM

Ø100 FLOW HEADER

Ø20mm FLOW
Ø20mm FLOW
Ø20mm FLOW
Ø20mm FLOW

Ø22mm RETURN
20mm RETURN
20mm RETURN
20mm RETURN

Ø100 RETURN HEADER

NOVOCOM 0.9 l/S
50Ømm

NOVOCOM 0.9 l/S
50Ømm

50ØHEAT REJECTION CIRCUIT TO SERVE FIRST FLOOR AND ENTRNACE

PU/01
PRESSURISATION UNIT
LSV
IV

NEW 350 L EXPANSION VESSEL TO ACCOMODATE LARGER SYSTEM CAPACITY

PU/01
PRESSURISATION UNIT
LSV

Rev	Description	By	Chk	App	Date

DO NOT SCALE OFF THIS DRAWING. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.

Client
AP MITCHELL

Project
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Title
PROPOSED
LTHW HEATING
SCHEMATIC

BRENG
low carbon, energy efficient solutions

Drawn By	Checked By	Approved By	Date
TS	RS	DH	MAR 24
Scale	Drawing Number		Revision
NTS @ A0	M5603		P1

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