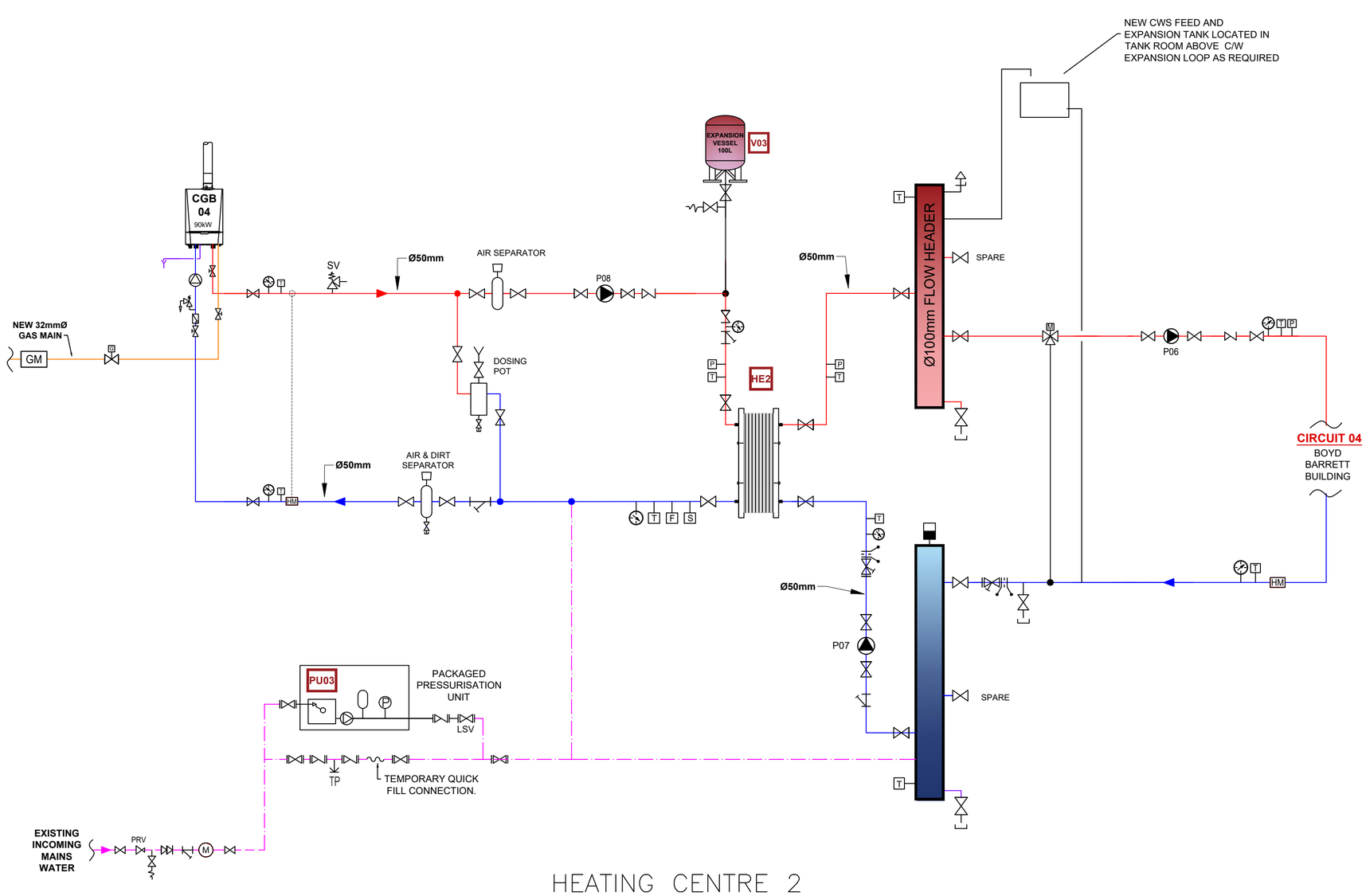


HEATING CENTRE 2

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE MECHANICAL SERVICES INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE MECHANICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. DRAWING TO BE READ IN CONJUNCTION WITH OTHER SERVICE DRAWINGS AND MECHANICAL SPECIFICATION.
4. ALL FLUES FROM BOILERS TO BE TWIN WALL INSULATED FLUES, CORRECTLY INSTALLED TO MANUFACTURES RECOMMENDATIONS C/W DRAINS VENTS AND SUPPORT BRACKETS WHERE REQUIRED.
5. ALL PLANT ITEMS TO BE MOUNTED ON SUITABLE SIZE OF PLINTHS WITHIN THE BOILER HOUSE AND ALL PIPES TO BE FULLY INSULATED AND LABELED.
6. ALL VALVE'S ABOVE 32Ø MUST BE INSULATED WITH PROPRIETARY JACKETS WITH VELCRO FIXINGS.
7. ALL METERS MUST BE CLEARLY LABELED WITH THEIR FUNCTION.



EXAMPLE OF PROPOSED WALL MOUNTED 90KW GAS FIRED BOILER

LEGEND

- MAINS WATER SUPPLY (MWS)
- HEATING PIPEWORK-RETURN
- ISOLATING VALVE
- NON RETURN VALVE
- PRESSURE REDUCING VALVE
- DOUBLE REGULATING VALVE
- DOUBLE CHECK VALVE
- DRAIN COCK
- HEAT METER*
- DOUBLE REGULATING AND COMMISSIONING VALVE
- PRESSURE RELIEF VALVE
- ANTIVIBRATION
- WATER HAMMMER ARRESTOR
- HEATING PIPEWORK-SUPPLY
- COLD WATER SUPPLY (CWS)
- TWO PORT VALVE
- THREE PORT VALVE
- SENSOR POCKET (PRESSURE)
- SENSOR POCKET (TEMPERATURE)
- FROST THERMOSTAT
- FLOW SENSOR
- PRESSURE & TEMPERATURE GAUGE
- STRAINER
- WATER METER C/W ISOLATING VALVES*
- WATER PUMP C/W ISOLATING VALVES*
- AUTOMATIC AIR VENT VALVE
- FLOW SWITCH

LINKED TO BMS

TYPICAL DETAIL:–
3 PORT MOTORISED VALVE

- MOTORISED VALVE
- MANUAL VALVE
- NON RETURN VALVE

F, D, R

CONTRACTORS TO REVIEW SELECTION OF EQUIPMENT AND LOCATIONS WITH QUANITY PROPOSED FOR INSTALLATION ON SITE.

ANY SERVICES THAT PENETRATE FIRE RATED CONSTRUCTION MUST BE FIRE STOPPED

CONTRACTORS TO ENSURE THAT ALL EXISTING MECHANICAL AND ELECTRICAL SERVICES ARE CAREFULLY REMOVED AND REMAINING REDUNDANT ITEMS MADE SAFE

REF.	EQUIPMENT SCHEDULE HEATING CENTRE 2
V3	LTHW STEEL CONSTRUCTION 100 LITERS EXPANSION VESSEL
GB 04	1 NO. 90kW COMPACT WALL MOUNTED GAS CONDENSING BOILER (DE-DIETRICH INNOVENS PRO MCA90 OR EQUIVALENT TO ENGINEERS APPROVAL)
HE2	100 KW PLATE HEAT EXCHANGER, ALFA LAVAL OR EQUAL TO ENGINEERS APPROVAL
PU3	PACKAGED DUAL PRESSURIZATION SET C/W BREAK TANK, SINGLE PHASE PUMP UNIT AND BMS CONNECTION
P06	(EXISTING VARIABLE SPEED PUMP IS A GRUNDFOS UPC 40-60 1PH PUMP) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P07	VARIABLE SPEED SHUNT PUMP, GRUNDFOS 1PH PUMP FLOW RATE - 0.8L/S, HEAD - 5.4M HEAD. PUMP HOUSING CAST IRON
P08	VARIABLE SPEED SHUNT PUMP, GRUNDFOS 1PH PUMP FLOW RATE - 0.8L/S, HEAD - 5.4M HEAD. PUMP HOUSING CAST IRON

Issue	REVISION	DATE	BY	CKD.
T1	ISSUED FOR TENDER	30.10.26	POB	JG

Figured dimensions only should be taken from this drawing. All contractors must visit the site and be responsible for taking and checking all dimensions that relate to this work

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Job: MIDLETON CBS BOYS NS
MIDLETON, CO. CORK

Client: BOARD OF MANAGEMENT

Drawing: MECHANICAL SERVICES
HEATING CENTRE 2 SCHEMATIC

Job No. E26/2879	Scale NTS@A2	Cad ref. 2879_Midleton_CSB.dwg
Drg. No. M3		Date JUNE 2026
Drawn PAUL O'BRIEN		
Checked JOHN GEANEY		