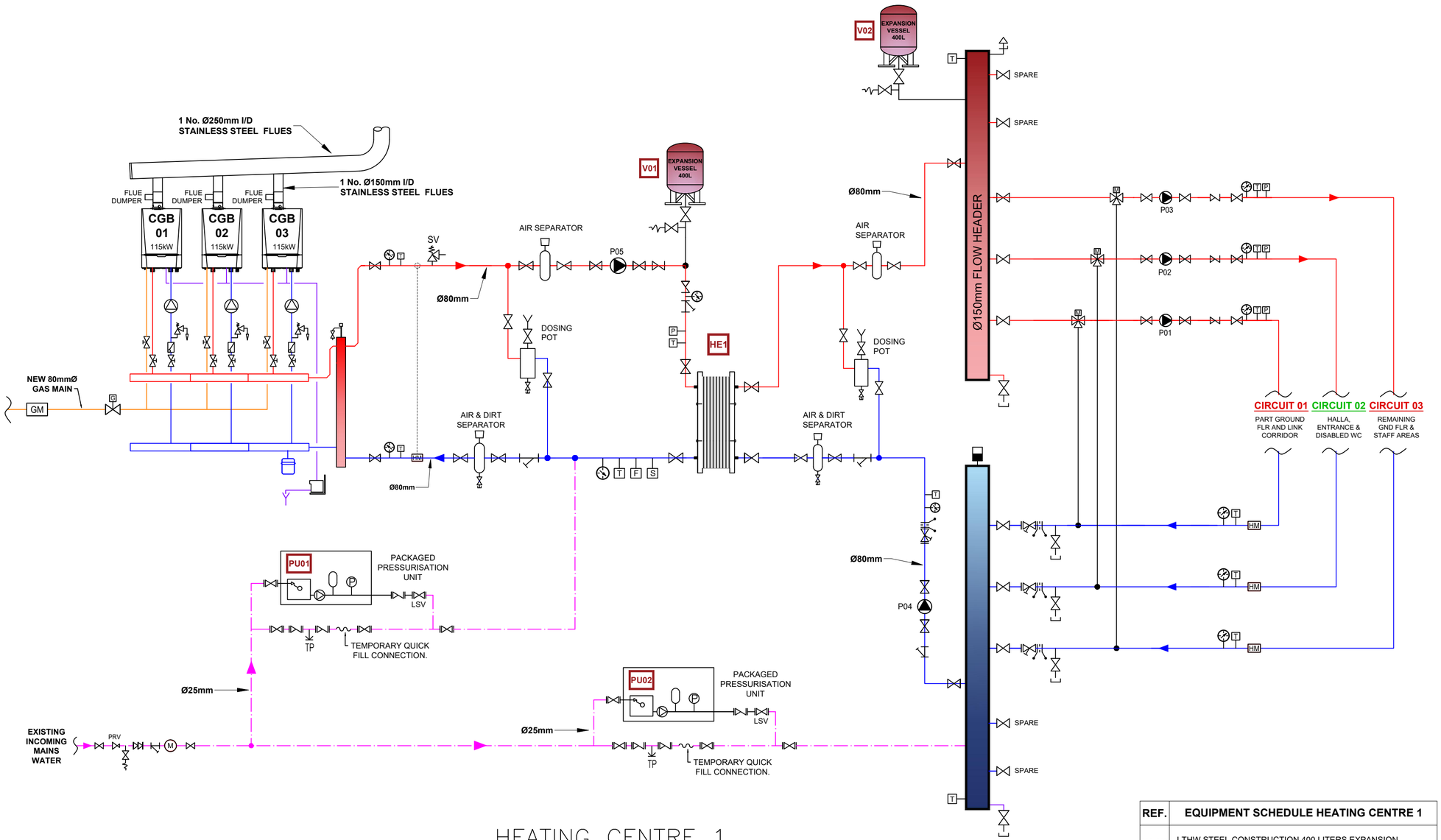


HEATING CENTRE 1

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.



TYPICAL WALL MOUNTED BOILERS

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

LINKED TO BMS

- PRESSURE & TEMPERATURE GAUGE
- STRAINER
- WATER METER C/W ISOLATING VALVES*
- WATER PUMP C/W ISOLATING VALVES*
- AUTOMATIC AIR VENT VALVE
- FLOW SWITCH

TYPICAL DETAIL:–
3 PORT MOTORISED VALVE

- MOTORISED VALVE
- MANUAL VALVE
- NON RETURN VALVE

F 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 1
V1, V2	LTHW STEEL CONSTRUCTION 400 LITERS EXPANSION VESSEL
GB 01 GB 02 GB 03	3 NO. 115kW WALL HUNG GAS CONDENSING BOILERS (DE-DIETRICH INNOVANS PRO MCA115 C/W CASCADE SYSTEM OR EQUIVALENT TO ENGINEERS APPROVAL)
HE1	400 KW PLATE HEAT EXCHANGER, ALFA LAVAL OR EQUAL TO ENGINEERS APPROVAL
PU1	PACKAGED PRESSURIZATION SET C/W BREAK TANK, SINGLE PHASE PUMP UNIT AND BMS CONNECTION
PU2	PACKAGED PRESSURIZATION SET C/W BREAK TANK, SINGLE PHASE PUMP UNIT AND BMS CONNECTION
P01	(EXISTING VARIABLE SPEED PUMP IS A GRUNDFOS UPS 50-60/2F PUMP SERVING EXISTING CIRCUIT 1 IN SCHOOL) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P02	(EXISTING VARIABLE SPEED PUMP IS A GRUNDFOS UPS 32-120-F PUMP SERVING EXISTING CIRCUIT 2 IN SCHOOL) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P03	(EXISTING VARIABLE SPEED PUMP IS A GRUNDFOS UPS 40-60/2F PUMP SERVING EXISTING CIRCUIT 3 IN SCHOOL) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P04	VARIABLE SPEED SHUNT PUMP, GRUNDFOS 1PH PUMP FLOW RATE - 2.8L/S, HEAD - 5.4M HEAD. PUMP HOUSING CAST IRON
P05	VARIABLE SPEED SHUNT PUMP, GRUNDFOS 1PH PUMP FLOW RATE - 2.8L/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

Matt O'Mahony & Associates
Engineering and Project Consultants.
8 Sidney Place, Wellington Rd., Cork
TEL: (021) 4506364 FAX: (021) 4509796
EMAIL: email@mattomahony.ie

Job: MIDLETON CBS BOYS NS
MIDLETON, CO. CORK

Client: BOARD OF MANAGEMENT

Drawing: MECHANICAL SERVICES
HEATING CENTRE 1 SCHEMATIC

Job No. E26/2879	Scale NTS@A2	Cad ref. 2879_Midleton_CSB.dwg	
Drg. No. M2		Date JUNE 2026	
Drawn PAUL O'BRIEN			
Checked JOHN GEANEY			