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EXISTING BOILER & BURNER SCHEDULE:

TAG:	LOCATION:	SERVICE:	SUPPLIER:	CAPACITY:	MANUFACTURER	MODEL:	EWT (°C)	LWT (°C)	VOLTAGE:	QUANTITY:	NOTE:
B-1	BOILER HOUSE	HEATING & DHW	HEVAC	115 kW	DE DIETRICH	INNOVENS PRO MCA 90	80°C	60°C	230V	1	1
B-2	BOILER HOUSE	HEATING & DHW	HEVAC	115 kW	DE DIETRICH	INNOVENS PRO MCA 90	80°C	60°C	230V	1	1
B-3	BOILER HOUSE	HEATING & DHW	HEVAC	115 kW	DE DIETRICH	INNOVENS PRO MCA 90	80°C	60°C	230V	1	1
B-4	BOILER HOUSE	HEATING & DHW	HEVAC	115 kW	DE DIETRICH	INNOVENS PRO MCA 90	80°C	60°C	230V	1	1
1	BACK-TO-BACK BOILERS COMPLETE WITH CASCADE CONTROLLER LOW LOSS HEADER KIT & TWIN WALL FLUE KITS										

PUMP SCHEDULE:

TAG:	LOCATION:	SERVICE:	SUPPLIER:	RATED FLOW (l/s):	RATED E.S.P.(kpa):	NOTE:
P-1	BOILER HOUSE	PHEX SHUNT PUMP	GRUNDFOS TPE3-125-110-S-A-F-A-BQQE-JWA	11.16	79.53	SINGLE STAGE IN-LINE CENTRIFUGAL PUMP
P-2 A/B	BOILER HOUSE	NORTH FACING CIRCUIT	GRUNDFOS MAGNA3 D 80-80 F PUMP	5.73	62.79	TWIN HEAD VARIABLE SPEED PUMP
P-3 A/B	BOILER HOUSE	SOUTH FACING CIRCUIT	GRUNDFOS MAGNA3 D 80-80 F PUMP	4.74	56.77	TWIN HEAD VARIABLE SPEED PUMP
P-4	BOILER HOUSE	DHW PRIMARY CIRCUIT	GRUNDFOS MAGNA3 32-60 N PUMP	0.50	55	~
P-5	BOILER HOUSE	DHW SECONDARY CIRCUIT	GRUNDFOS MAGNA3 25-60 N PUMP	0.75	55	~
P-6 A/B	BOILER HOUSE	BOOSTED COLD WATER CIRCUIT	GRUNDFOS HYDRO MPC-E-2 CRIE 3-15	0.75	55	TWIN PUMP BOOSTER SET
P-7	BOILER HOUSE	RADIANT PANEL CIRCUIT	GRUNDFOS MAGNA3 25-60 F PUMP	0.48	42.71	RADIANT PANELS WITH BLACK BULB CONTROL

CALORIFIER SCHEDULE:

TAG:	LOCATION:	MANUFACTURER:	TYPE:	CAPACITY:	COIL RATING:	ELECTRIC:	VOLTAGE:	NOTES:
WH-1	BOILER HOUSE	JOULE	CYCLONE CY300L SOLAR TWIN SOLAR	300 LITRE	16 KW	3KW	240 V	EXISTING TO BE RETAINED

PLATE HEAT EXCHANGER SCHEDULE:

TAG	MANUFACTURER / MODEL:	SUPPLIER:	HEAT EXCHANGED (kW):	MAX. PRESSURE (bar)	NOTE:
PHEX-1	IDEAL BRAZED PLATE HEAT EXCHANGER	IDEAL	600	30	4Nr. FLANGE EN 1092-1 DN100 CONNECTIONS C/W INSULATION KIT

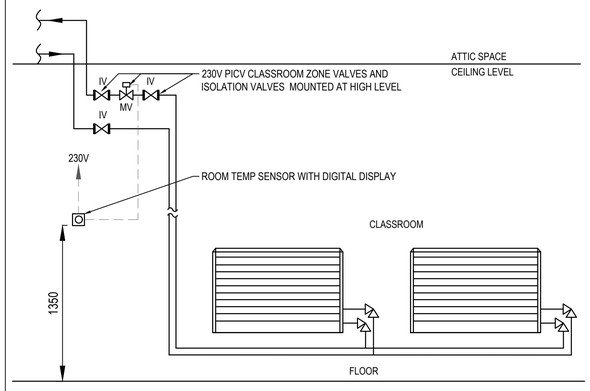
COLD FEED & EXPANSION SCHEDULE:

TAG	MANUFACTURER:	MODEL:	POWER:	NOTE:
FE-1	GRUNDFOS	PHT-A-T-225	230V	TWIN SYSTEM PRESSURISATION UNIT WITH SINGLE 17.5 LITRE BREAK TANK C/W 1 Nr. FLEXCON 425 LITER & 1 Nr. 110 LITRE EXPANSION VESSELS AND ANTI GRAVITY LOOP

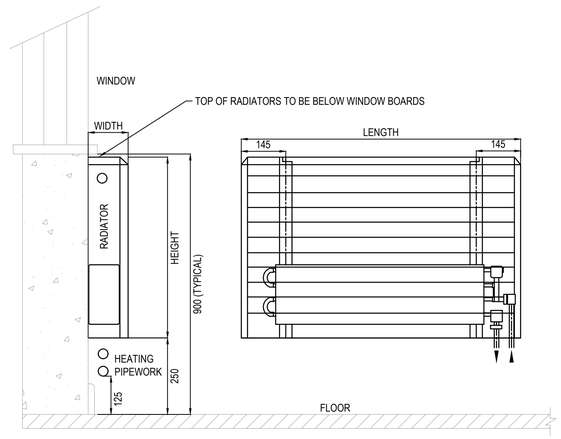
AIR DIRT SEPARATORS SCHEDULE:

TAG:	MANUFACTURER:	TYPE:	FILTER DIAMETER (mm):	INLET SIZE (mm):	MATERIAL	NOTE:
DAS-1	CLEANVENT AIR	CVA 100	220	100	STAINLESS STEEL	MICROBUBBLE AIR SEPARATOR
DAS-2	1PASS	1PASS - 100	220	100	STAINLESS STEEL	MICROBUBBLE AIR & DIRT SEPARATOR

B MH-03 BOILER ROOM EQUIPMENT SCHEDULES
SCALE:- NTS



C MH-03 TYPICAL CLASSROOM HEATING CONTROLS DETAIL
SCALE:- NTS



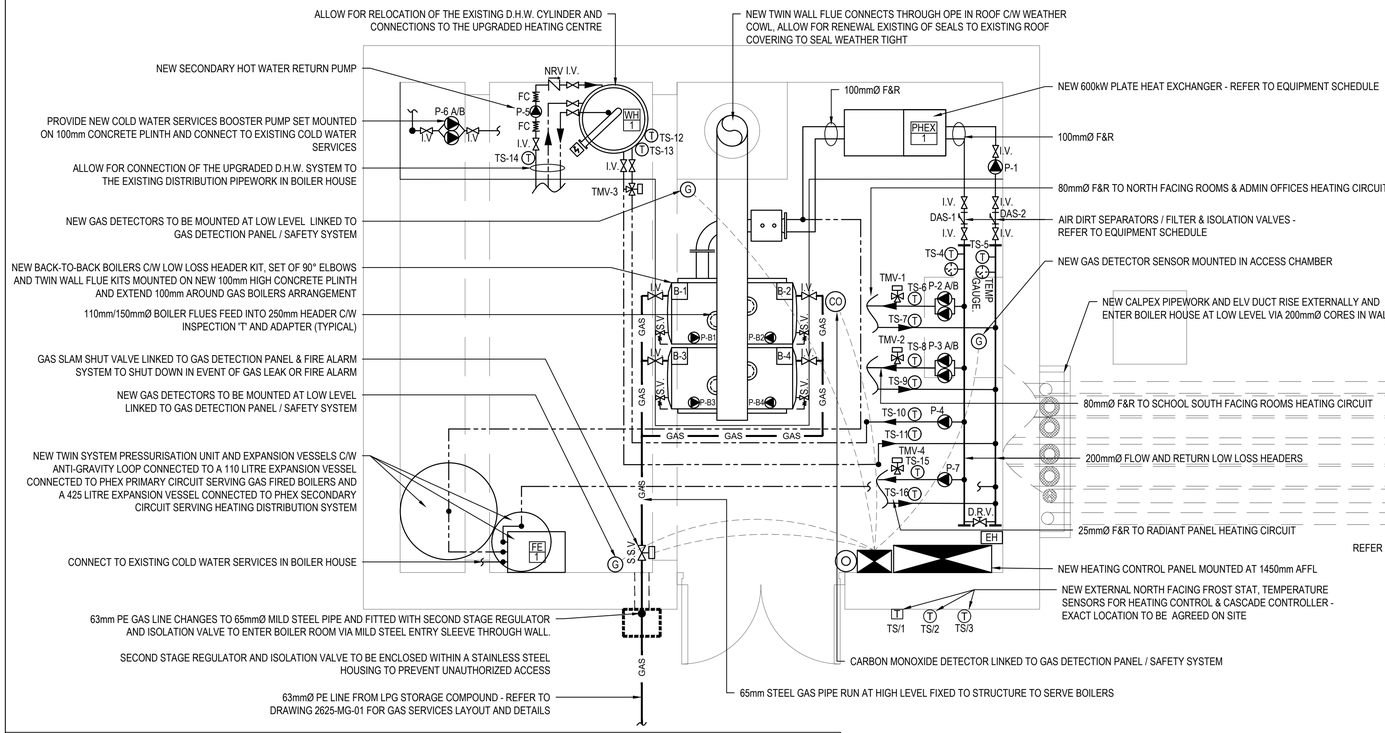
D MH-03 TYPICAL WALL MOUNTED RADIATOR DETAILS
SCALE:- NTS

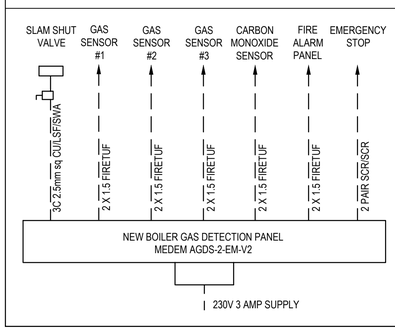
HEATING SERVICES NOTES:

1. THIS DRAWING IS INDICATIVE ONLY AND SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DRAWINGS.
2. THIS DRAWING MUST NOT BE SCALED. WORK TO FIGURED & SITE OBTAINED DIMENSIONS ONLY.
3. CONTRACTOR SHALL TAKE FULL COGNISANCE OF THE PRELIMINARY HEALTH AND SAFETY PLAN, AND PROVIDE FULL METHOD STATEMENTS FOR ALL HAZARDOUS OPERATIONS LISTED THEREIN. METHOD STATEMENTS SHALL ALSO BE PROVIDED FOR ANY HAZARDOUS OPERATION WHICH BECOMES APPARENT THROUGHOUT THE CONSTRUCTION PHASE.
4. THE MECHANICAL CONTRACTOR, WITH RELEVANT SUB CONTRACTORS SHOULD CARRY OUT A DETAILED SITE SURVEY PRIOR TO SUBMITTING COMPLETED TENDERS, TO ENSURE ALL COSTS ARE INCLUDED. NO COSTS FOR UNFORESEEN WORK WILL BE ACCEPTED.
5. WHERE A PARTICULAR MANUFACTURERS PRODUCTS ARE SPECIFIED IT SHALL BE READ AS EQUAL AND PRE-APPROVED.
6. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL BUILDERS WORK AS SPECIFIED IN THE TENDER DOCUMENTS INCLUDING OPENING UP CEILINGS, CORING OPES, MAKING GOOD AND REINSTATEMENT AND REDECORATION.
7. RADIATORS TO BE AS MANUFACTURED BY VERSATILE MAXI nZEB RADIATOR RANGE OR EQUAL AND PRE-APPROVED.
8. ALL OPES (WALL & CEILING) SHALL HAVE WALL PLATES INSTALLED AROUND OPE AND PIPE. PLATES SHALL BE CAST WHITE METAL TYPE. IF CONSTRUCTED IN TWO PIECES, THEY SHALL BE FITTED WITH SUBSTANTIAL HINGES AND POSITIVE CATCHES.
9. ALL PIPEWORK TO BE MEDIUM GRADE STEEL WITH THREADED CONNECTIONS. PIPEWORK TO BE PAINTED TO MATCH WALL COLOURS / TO CLIENT SELECTED COLOUR BY A SPECIALIST PAINTING SUBCONTRACTOR.
10. ALL RADIATORS TO BE MOUNTED AS SPECIFIED IN THE RADIATOR SCHEDULE.
11. ALL CONNECTIONS FROM RADIATORS TO HEATING PIPEWORK TO BE 15mmØ MEDIUM GRADE STEEL.
12. ALL HEADER RUNS OF PIPEWORK AT HIGH LEVEL AND ALL PIPEWORK LOCATED IN CEILING SPACE TO BE INSULATED WITH FOIL BACKED INSULATION AS PER SPECIFICATION.
13. PROVIDE DRAIN OFF POINTS AT ALL END RADIATORS.
14. PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS.
15. PROVIDE EXPANSION BELLOWS ON STRAIT PIPE RUNS IN EXCESS OF 15 METERS.

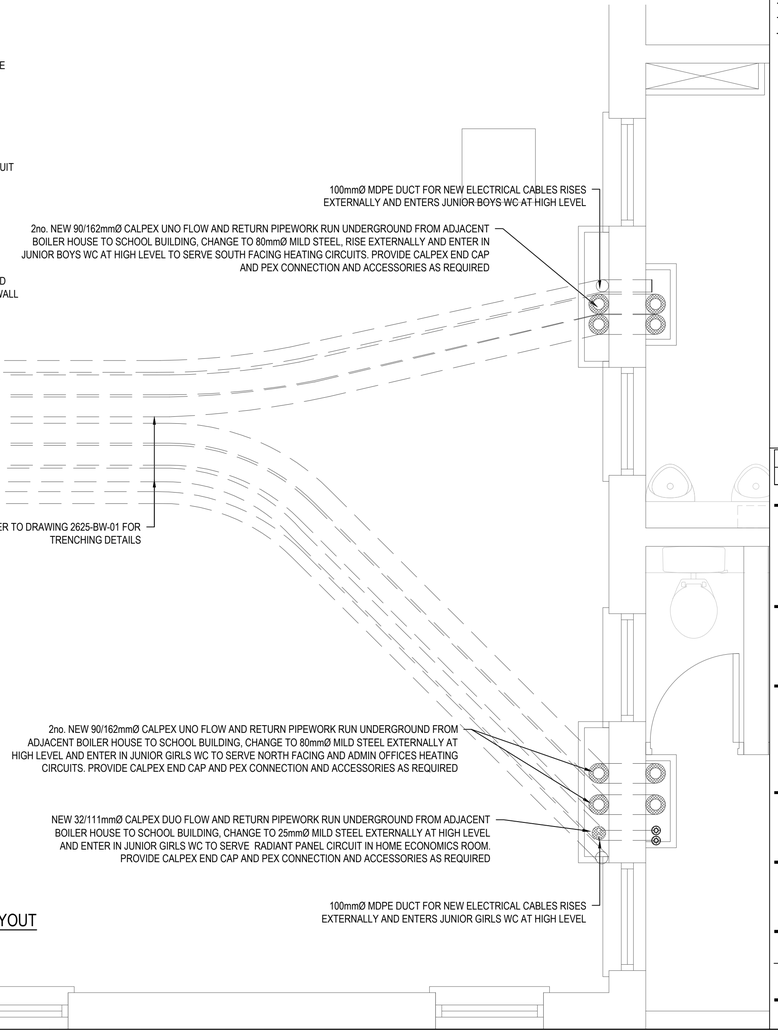
ANNOTATIONS & LEGEND OF SYMBOLS:

- INDICATES PIPEWORK RUN UNDER FLOOR
- INDICATES PIPEWORK RUN AT LOW LEVEL
- INDICATES PIPEWORK RUN AT HIGH LEVEL
- INDICATES PIPEWORK RUN IN ATTIC / CEILING VOID
- INDICATES RISE/DROP IN PIPEWORK
- "D.T.L.L." INDICATES "DROP TO LOW LEVEL"
- "F/A" INDICATES "FROM ABOVE"
- "T/B" INDICATES "TO ABOVE"
- "F/B" INDICATES "FROM BELOW"
- "A.P." ANCHOR POINT
- P- DENOTES SINGLE HEAD CIRCULATION PUMP
- P- DENOTES TWIN HEAD CIRCULATION PUMP
- P-B DENOTES INTEGRATED BOILER SHUNT PUMP
- TS- T DENOTES TEMPERATURE SENSOR / THERMOSTAT
- TMV- DENOTES THREE PORT MIXING VALVE WITH MOTORISED ACTUATOR
- D.R.V. DENOTES DOUBLE REGULATING VALVE WITH COMMISSIONING SET
- DAS DENOTES AIR & AIR SEPARATOR
- I.V. DENOTES ISOLATION VALVE
- S.V. DENOTES SAFETY VALVE - PIPE TO FLOOR DRAIN
- SSV DENOTES GAS SLAM SHUT VALVE
- G DENOTES LPG GAS DETECTION SENSOR
- CO DENOTES CARBON MONOXIDE DETECTION SENSOR
- DENOTES REMOTE EMERGENCY BUTTON
- EH 1kW SMART ELECTRIC RADIATOR - FARHO ECO GREEN ULTRA
- DENOTES NEW BOILER CONTROL PANEL / MCC
- DENOTES NEW GAS CONTROL PANEL





E MH-03 BOILER ROOM GAS SAFETY SYSTEM SCHEMATIC
SCALE:- NTS



A MH-03 PROPOSED BOILER ROOM LAYOUT
SCALE:- 1:25

T1	REVISED TENDER ISSUE	LL	JF	JF	07/09/26
T0	TENDER ISSUE	LL	JF	JF	29/07/26
REV	DESCRIPTION	BY	CHK	APP	DATE

CLIENT:
LIMERICK AND CLARE EDUCATION AND TRAINING BOARD
CAPITAL PROCUREMENT SECTION
STATION ROAD, ENNIS, CO CLARE

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Project:
HEATING SERVICES UPGRADE & GAS CONVERSION EMERGENCY WORKS PROJECT 2026

Drawing Title:
PROPOSED BOILER HOUSE MECHANICAL LAYOUT AND GAS & HEATING SERVICES DETAILS

Scale	Drawn	Checked	Approved	Date
1:25 @ A1	LL	JF	JF	29/07/2026

Project No.	Type	Drawing No.	Revision
2625	M	2625-MH-03	T1

APPROVAL☐ INFORMATION☐ TENDER☒ CONTRACT☐ CONSTRUCTION☐