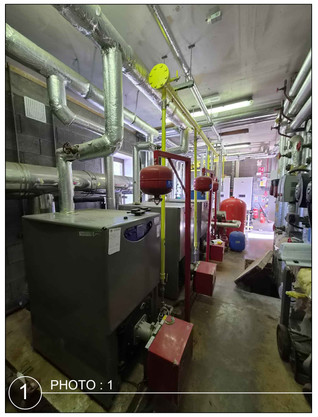
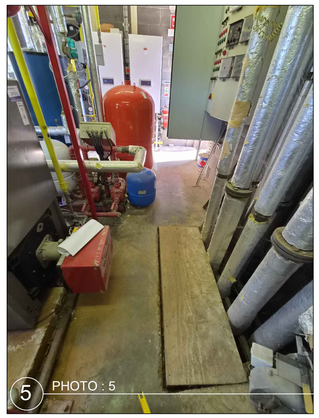
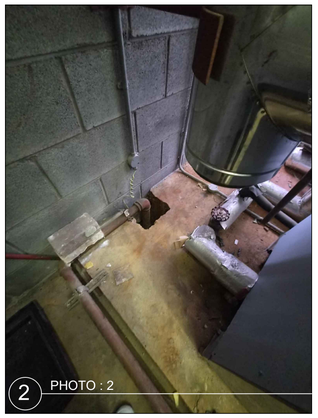
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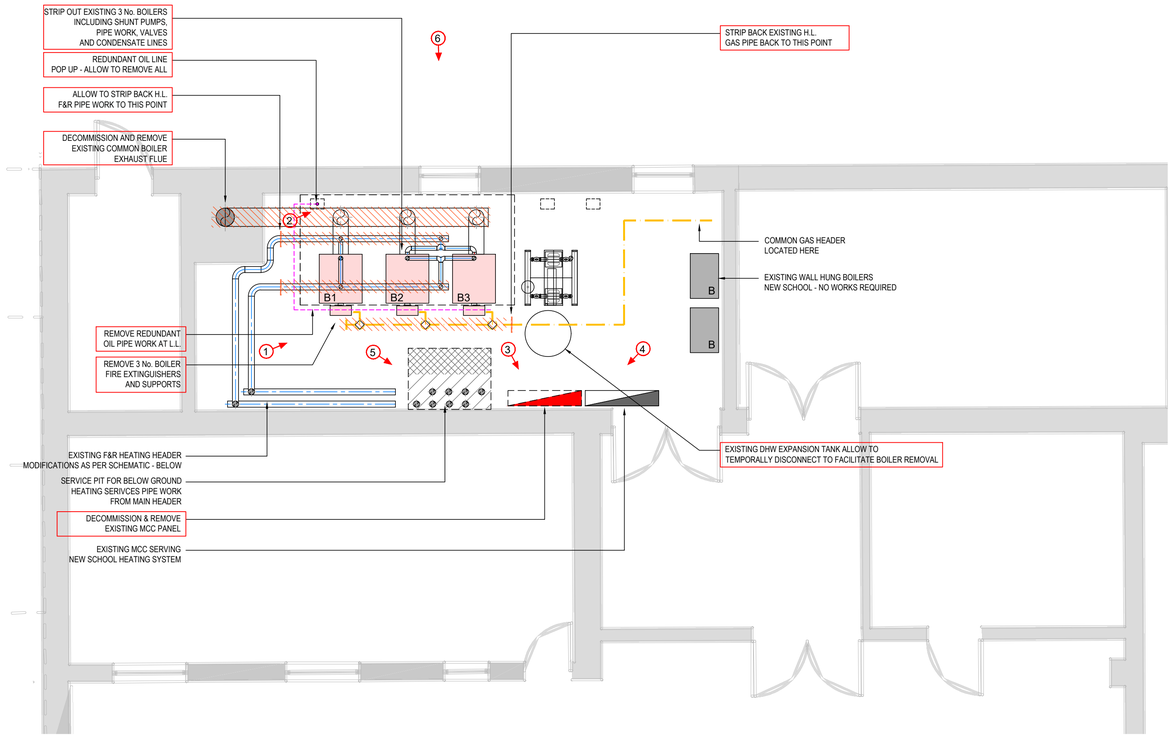




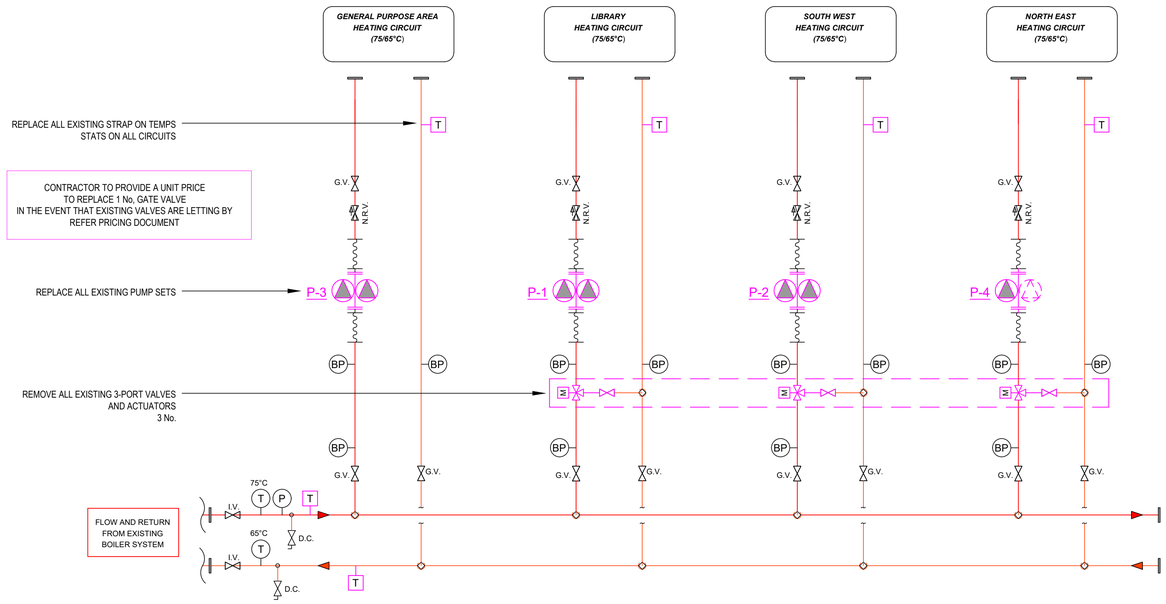








1 M.100 EXISTING BOILER PLANT ROOM LAYOUT
1:50 @ A1



2 M.100 EXISTING PLANT ROOM LAYOUT HEATING SYSTEM HEADER
1:50 @ A1

SCOPE OF WORKS - PLANT ROOM DEMOLITION

CONTRACTOR SHALL ALLOW FOR THE SAFE DECOMMISSIONING, REMOVAL FROM SITE AND LAWFUL DISPOSAL OF THE FOLLOWING EXISTING PLANT AND SERVICES:

- 3 NO. EXISTING BOILERS, INCLUDING ASSOCIATED SHUNT PUMPS, LOCAL PIPEWORK, VALVES, FITTINGS AND CONDENSATE DRAINAGE PIPEWORK.
- EXISTING BOILER FLUE SYSTEM IN ITS ENTIRETY, INCLUDING ALL SUPPORTS, BRACKETS AND ANCILLARY COMPONENTS.
- EXISTING HIGH-LEVEL HEATING FLOW AND RETURN PIPEWORK, STRIPPED BACK TO SUITABLE AGREED CONNECTION POINTS FOR THE PROPOSED REPLACEMENT SYSTEM.
- EXISTING GAS PIPEWORK SERVING THE BOILERS, DISCONNECTED, MADE SAFE AND STRIPPED BACK TO A SUITABLE AGREED POINT FOR FUTURE CONNECTION.
- ALL REDUNDANT OIL PIPEWORK AND ASSOCIATED FITTINGS.
- EXISTING BOILER-ROOM FIRE EXTINGUISHERS AND SUPPORT BRACKETS.
- EXISTING STRAP-ON TEMPERATURE SENSORS AND ASSOCIATED REDUNDANT CABLING, WHERE APPLICABLE.
- REPLACE EXISTING HEATING SYSTEM CIRCULATION PUMPS AS INDICATED
- REMOVE AND REPLACE EXISTING 3-PORT VALVES ON HEATING CIRCUITS AS INDICATED
- ALL REMAINING SERVICES SHALL BE LEFT SAFE, SECURELY CAPPED, ADEQUATELY SUPPORTED AND SUITABLE FOR FUTURE CONNECTION. THE CONTRACTOR SHALL COORDINATE ALL ISOLATION AND DECOMMISSIONING WORKS WITH THE EMPLOYER AND RELEVANT UTILITY/SERVICE PROVIDERS PRIOR TO COMMENCEMENT.

DRAWING M.100 : EXISTING HEATING CIRCUIT PUMP SCHEDULE

PUMP REFERENCE	AREA SERVED	EXISTING MAKE / MODEL	PUMP TYPE	POWER Ø	MAX HEAD (M)
P.03	GENERAL PURPOSE AREA	GRUNDFOS UPC 50-120	TWIN HEAD	3Ø	12
P.02	SOUTH WEST	GRUNDFOS MAGNA D 40-120	TWIN HEAD	1Ø	12
P.03	LIBRARY	WILO-STRATOS D 40/1-12	TWIN HEAD	1Ø	12
P.04	NORTH EAST	GRUNDFOS UPC 40-120F	SINGLE HEAD	1Ø	12

GENERAL NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ENERJ SPECIFICATION TOGETHER WITH THE REQUIREMENTS AND BUILDING REGULATIONS OF ALL STATUTORY AUTHORITIES, STANDARDS AND CODES RELEVANT TO THE WORKS.
2. THE MECHANICAL CONTRACTOR SHALL CO-ORDINATE ALL SERVICES FULLY WITH ALL TRADES BEFORE COMMENCING WORK.
3. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS SHALL BE TAKEN ON SITE.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY INFORMATION TO ALLOW PROPER CO-ORDINATION OF ALL SERVICES.
5. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
6. EXACT LOCATION OF ALL SERVICES SHALL BE AGREED WITH THE EMPLOYERS REPRESENTATIVE PRIOR TO COMMENCEMENT ON SITE.
7. ALL SERVICES AS SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE FINAL TENDER PRICE.
8. SAMPLE OF ALL EQUIPMENT SHALL BE APPROVED BY CLIENT, ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO ORDERING.
9. ALL DIMENSIONS IN MILLIMETERS, UNLESS STATED OTHERWISE.

HEATING SERVICES NOTES

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE HEATING SYSTEM COMPLETE WITH ALL VALVES, CONTROLS MAGNETIC FILTRATION AND SYSTEM EXPANSION VESSEL TO FORM A COMPLETE SYSTEM.
2. LOCATIONS OF EQUIPMENT AND PIPEWORK SHOWN ARE DIAGRAMMATIC ONLY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, EXISTING SERVICES, AND BUILDING WORK.
3. UNLESS OTHERWISE STATED ALL ITEMS OF PLANT PIPEWORK, VALVES ETC, SHALL BE SUPPLIED & INSTALLED UNDER THE MECHANICAL CONTRACT.
4. THE CONTRACTOR MUST ATTEND SITE TO VERIFY THE EXISTING INSTALLATIONS, TIE INS ,DRAIN DOWNS ETC. LACK OF KNOWLEDGE OF EXISTING INSTALLATION WILL NOT BE ACCEPTED FOR ANY COST IMPLICATIONS,
5. MECHANIGAL CONTRACTOR WILL VERIFY BY ON SITE INSPECTION AND WITH ASSISTANCE OF CONTROL SPECIALIST, THE EXISTING CONTROLS POINTS LIST SERVED FROM EXISTING MCC PANEL SHALL BE RETAINED.
6. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL WORKING PRESSURE OF THE SYSTEM. THE NEW INSTALLATION SHALL NOT EXCEED THIS OPERATIONAL PRESSURE.
7. ALL MECHANICAL AND ELECTRICAL MODIFICATIONS TO BE AGREED WITH ENGINEER AND IBTS FACILITIES TECHNICAL SERVICES PRIOR TO COMMENCING ON SITE.
8. ALL SHUT DOWNS, TIE INS AT WILL REQUIRED RAMS TWO WEEKS IN ADVANCE TO FACILITATE APPROVALS PRIOR TO WORK COMMENCING ON SITE.
9. ALL PIPEWORK WITHIN THE BOILER PLANTROOM SHALL BE INSULATED & CLADDED IN STUCCO ALUMINUM TO MATCH EXISTING.
10. ALL AUTOMATIC AIR VENTS TO BE SUPPLIED COMPLETE WITH INLINE LEVER ACTION ISOLATION
11. MECHANICAL CONTRACTOR TO VISIT SITE AND ASCERTAIN EXACT SYSTEM PRESSURE FOR LPHW HEATING SYSTEM.
12. NEW HEATING SYSTEM TO OPERATE WITHIN SAME PRESSURE PROFILE.
13. ALL VALVES ABOVE 32Ø MUST BE INSULATED WITH PROPRIETARY JACKETS WITH VELCRO FIXINGS.
14. ALL PIPEWORK SIZES NOTED ARE INTERNAL PIPE DIAMETER.
15. TESTING, COMMISSIONING AND BALANCING OF THE INSTALLATION IN ACCORDANCE WITH STANDARD SPECIFICATION "TESTING AND COMMISSIONING".
16. PROVIDE LABELS ON EQUIPMENT INCLUDING CONTROLLERS, PUSH BUTTONS, TEMPERATURE SENSORS AND SIMILAR EQUIPMENT. THE LABEL SHALL BE A NON TARNISHABLE CAST OR ENGRAVED LABEL OF APPROVED SIZE, WORDING AND DESIGN, CLEARLY INDICATING THE FUNCTION AND/OR CIRCUIT DESIGNATION OF THE COMPONENT CONCERNED AND SECURLEY FIXED.
17. PROVIDE AUTOMATIC AIR VENTS ON ALL HIGH POINTS ON PIPEWORK SYSTEMS

HEATING SERVICES DEMOLITION LEGEND

DENOTES ITEMS TO BE DECOMMISSIONED AND REMOVED OFF SITE

PHOTO VIEW POINT AND PHOTO REFERENCE 1

REV	DESCRIPTION	DRN	ENG	APP	DATE
T1	ISSUED FOR TENDER	JH	JH	JH	26.08.26

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PROJECT
COLÁISTE MHUIRE
BOILER UPGRADE EMERGENCY WORKS

CLIENT
KILKENNY AND CARLOW
EDUCATION AND TRAINING BOARD

kcetb Bord Oideachais agus Oiliúna Chill Chainnigh agus Cheatharlach Kilkenny and Carlow Education and Training Board

DRAWING TITLE
MECHANICAL SERVICES
LPHW BOILER SYSTEM
BOILER HOUSE DEMOLITION WORKS

SCALE	SHEET SIZE	PROJECT No.	DRAWING No.	REV.
1:50	A1	26-020	M-100	T1