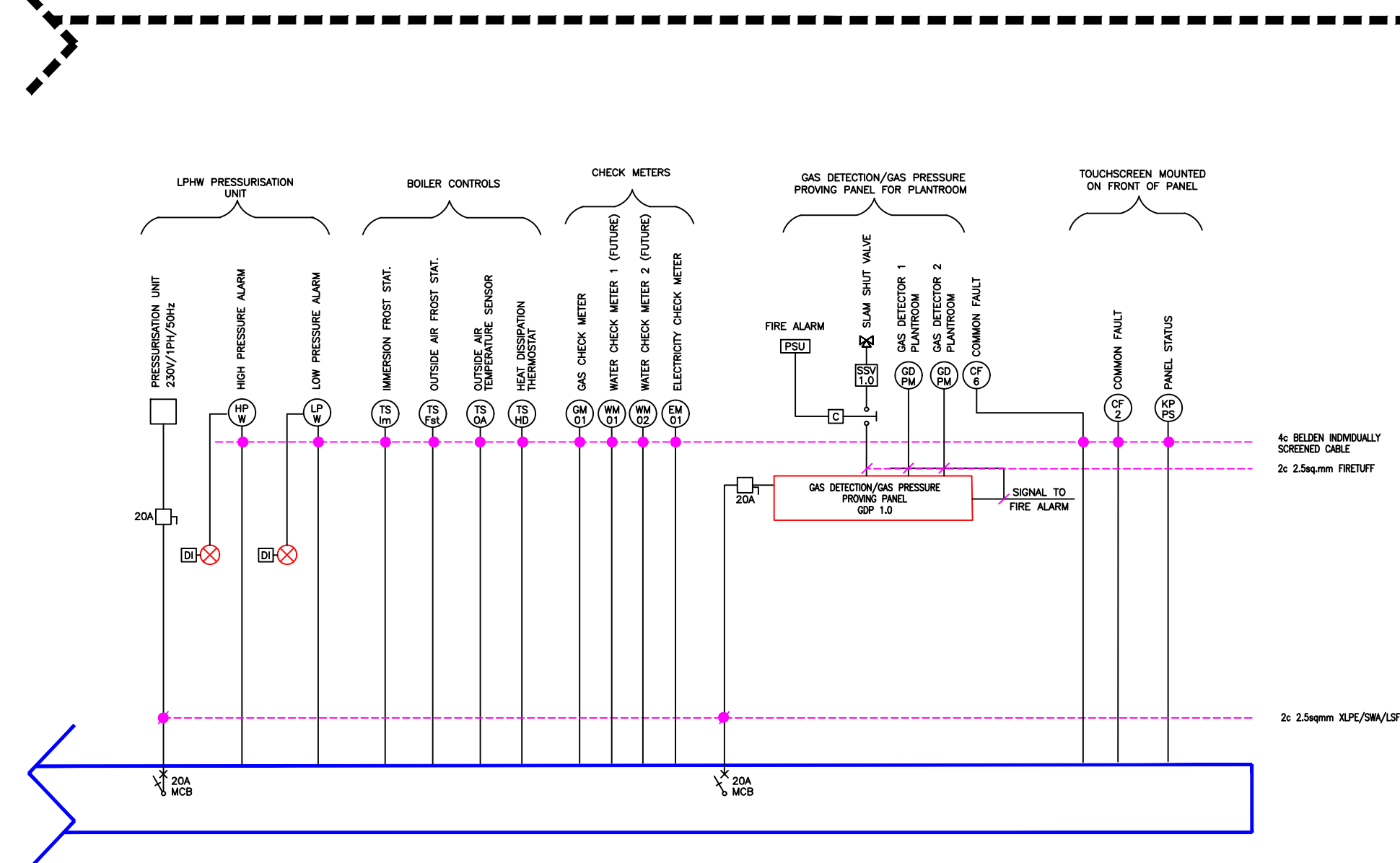
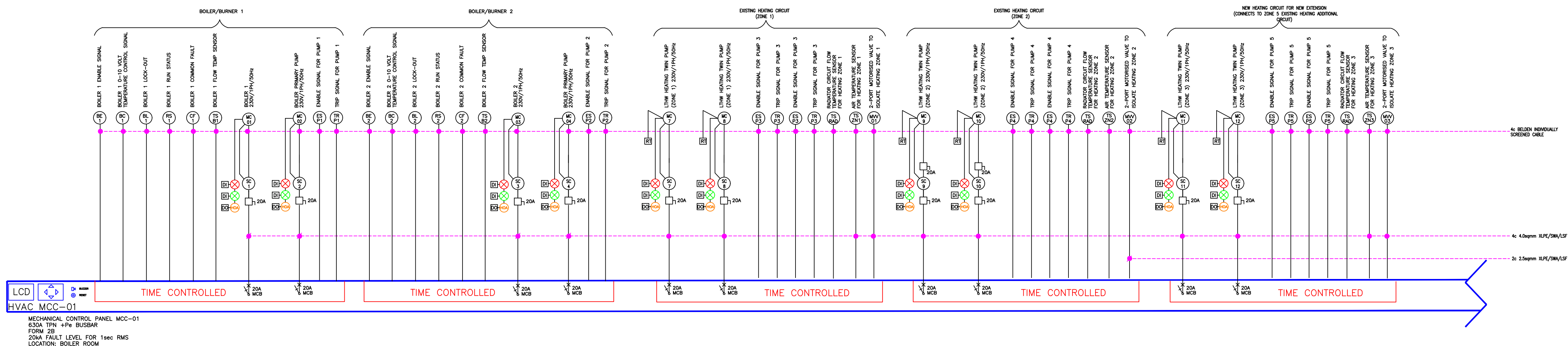


BOARD: MCC CONTROLS PANEL (MCC-01)
LOCATION: BOILERHOUSE
FORM: FORM 2B



MCC PANEL SCHEMATIC

MCC CONTROLS SCHEMATIC LEGENDS AND SYMBOLS

TS = TEMPERATURE SENSOR	KP = KEYPAD	SP = SET POINT	----- = POWER AND CONTROL WIRING
TSt = TEMPERATURE STAT	OUT = OUT-OFF-HOURS PUSH BUTTON	GD = GAS DETECTOR	= VARIABLE SPEED DRIVE
HS = HUMIDITY SENSOR	HP = HIGH PRESSURE	MV = MOTORISED VALVE	= PRIORITY SELECT CONTROL PROGRAMME
Psw = PRESSURE DIFFERENTIAL SWITCH	LP = LOW PRESSURE	MMV = MOTORISED MIXING VALVE	= SINGLE PHASE ISOLATOR (RATING AS NOTED)
Fst = FROST CONTROL THERMOSTAT	HWS = HOT WATER SYSTEM	EM = ELECTRICITY METER	= LAMP ON PANEL (RED LIGHT)
DM = MOTORISED DAMPER	SOL = SOLAR	GM = GAS METER	= LAMP ON PANEL (GREEN LIGHT)
HCV = HEATING CONTROL VALVE	PW = POWER	WM = WATER METER	= HAND-OFF-AUTO SWITCH
CCV = COOLING CONTROL VALVE	= FIELD MOUNTED INSTRUMENT	CF = COMMON FAULT	DI = DIRECT INPUT
TC = TEMPERATURE CONTROLLER	= PANEL MOUNTED INSTRUMENT	= FUSE DISCONNECT SWITCH	MC = MOTOR CONTROLLER
HC = HUMIDITY CONTROLLER	= CONTROL VALVE ACTUATOR		= 3PHASE ISOLATOR (RATING AS NOTED)
HOA = HAND/OFF/AUTO SELECTOR SWITCH	R = RANGE		
D/S = DUTY/STANDBY SELECTOR SWITCH			

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
- THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY INFORMATION TO ALLOW THE MAIN CONTRACTOR CO-ORDINATE ALL SERVICES.
- THE MECHANICAL CONTRACTOR SHALL ALLOW FOR CO-ORDINATING THE MECHANICAL INSTALLATION WITH THE ELECTRICAL CONTRACTOR ON SITE. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.
- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR PIPEWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.
- NEW MAINS RUN OF MECHANICAL PIPEWORK SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR THE MECHANICAL SERVICES ON SITE THEN THAT WILL BE ACCEPTABLE.
- FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEEVED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROOFING THE OPES AFTER SERVICES IS INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

MECHANICAL SCHEMATIC NOTES:

- LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.
- THE CONTRACTOR SHALL ENSURE ALL RADIATORS ARE MEASURED IN RELEVANT LOCATIONS PRIOR TO ORDERING.
- FINAL LOCATIONS OF ALL RADIATORS TO BE CO-ORDINATED ON SITE WITH FIXED FURNITURE LAYOUTS.
- ALL PIPEWORK IS SIZED BASED ON A FLOW TEMPERATURE OF 80 DEGREES CELSIUS AND A RETURN TEMPERATURE OF 60 DEGREES CELSIUS.
- EQUIPMENT TO HAVE LOCAL ISOLATING VALVES.
- AUTOMATIC AIR VENTS SHALL BE PROVIDED AT ALL HIGH POINTS THROUGHOUT THE SYSTEM.
- DRAIN VALVES SHALL BE PROVIDED AT ALL LOW POINTS THROUGHOUT THE SYSTEM.
- THE BOILER SHALL BE FITTED WITH A PERMANENTLY FIXED NOTICE, 200 x 200mm SCHEDULED TO THE BOILER CASING WITH THE FOLLOWING WORDING: "IMPORTANT NOTICE - DO NOT REDUCE THE BOILER OPERATING FLOW TEMPERATURE BELOW 80°C".
- THE HEATING SYSTEM PIPEWORK THROUGHOUT (INCLUDING ALL HEATING PIPEWORK IN THE PLANTROOM AND IN THE BUILDING) SHALL BE MEDIUM GRADE BLACK MILD STEEL TUBE.
- INSULATION SHALL BE PREFORMED SECTIONS OF RIGID MINERAL WOOL WITH ALUMINIUM FOL LAMINATE COVER. INSULATION SHALL BE FITTED TO ALL CONNECTIONS, BENDS, TEE'S AND VALVES.
- ALL HEATING PUMPS SHALL BE OPERATED THROUGH VARIABLE SPEED DRIVES.
- UNLESS INDICATED, THE SIZE OF ISOLATION VALVES, DRAIN VALVES, COMMISSIONING VALVES, ETC. SHALL MATCH THE INDICATED LINE SIZE OF THE PIPEWORK, WHERE THE EQUIPMENT IS INDICATED.
- THE CONTRACTOR SHALL ALLOW FOR ALL BENDS, ELBOWS AND NECESSARY PIPEWORK IN ORDER TO INSTALL THE COMPLETE HEATING SYSTEM.
- SEE SPECIFICATION FOR FURTHER INFORMATION ON THE MECHANICAL AND ELECTRICAL ATTENDANCES REQUIRED.
- REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED HEATING SERVICES THROUGHOUT THE BUILDING.

T1	14.08.2024	K. DAVITT	G. BENNDORF
REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
M&E CONSULTANT			
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Drawing Status

TENDER

Job Title

KILDANGAN NATIONAL SCHOOL,
KILDANGAN,
MONASTEREVIN,
CO. KILDARE.

Drawing Title

MECHANICAL SERVICES
MCC PANEL SCHMEATIC

Architect

MCLOUGHLIN ARCHITECTURE
Unit 4B, Elm House
Millennium Park, Naas
Co.Kildare, Ireland

Scale: N.T.S. @ A1

Drawn By: K. DAVITT

Job No. 22-055

Drawing No. 51(M002)

Rev. T1