NOTES: LIGHTING SERVICES

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. CONTRACTOR TO REFER TO ELECTRICAL SPECIFICATION DOCUMENT FOR DETAILED EQUIPMENT SPECIFICATION.
4. ALL EMERGENCY LIGHTING TO BE WIRED BACK TO AUTOMATIC TEST SYSTEM (ATS) LOCATED AT THE MAIN DISTRIBUTION BOARD ON GROUND FLOOR.
5. ALL EXTERNAL LIGHTING TO BE WIRED THROUGH PHOTOCELL, TIMECLOCK AND OVER-RIDE SWITCH AT THE MAIN DISTRIBUTION BOARD.
6. ALL SURFACE RUN CABLES SHALL BE RUN IN STEEL CONDUIT.
7. THE CONTRACTOR SHALL PROVIDE SAMPLES OF ALL LUMINAIRES TO THE EMPLOYER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING.
8. THE LIGHTING INSTALLATION IS NOT TO BE USED FOR WORKING ILLUMINANCE DURING THE CONSTRUCTION PERIOD.
9. PROTECTIVE COVERING SHALL REMAIN ON ALL LUMINAIRES UNTIL IMMEDIATELY PRIOR TO HAND-OVER.
10. PROPOSED EXTERNAL LIGHT FITTINGS TO BE REVIEWED BY ENGINEER FOR APPROVAL

NOTES: FIRE ALARM SERVICES

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. CONTRACTOR TO REFER TO OTHER SERVICE DRAWINGS AND ELECTRICAL SPECIFICATION DOCUMENT FOR DETAILED EQUIPMENT SPECIFICATION.
4. THE ELECTRICAL CONTRACTOR TO ALLOW FOR THE MONITORING OF THE FIRE ALARM SYSTEM THROUGH THE INTRUDER ALARM SYSTEM.
5. ALL CABLES TO BE HIGH QUALITY GOLD FP ENHANCED. FIXED TO INDEPENDENT CONTAINMENT AND FIXED WITH SUITABLE FIRE RESISTANCE CLIPS AND TIES WHERE REQUIRED.
6. CONTRACTOR TO ALLOW FOR NEW HEADS IN BOILER ROOM AND THE RE CONNECTION INTO THE EXISTING FIRE ALARM SYSTEM.
7. ALL EQUIPMENT ASSOCIATED WITH FIRE ALARM INSTALLATION SUCH AS ADDRESSABLE SMOKE & HEAT DETECTORS, MANUAL CALL POINTS AND SOUNDERS ETC SHALL BE WIRED BACK TO ADDRESSABLE FIRE ALARM PANEL.
8. ALL SURFACE MOUNTED CABLES SHALL BE CONCEALED IN STEEL TRUNKING, LOW VOLTAGE COMPARTMENTS OR ATTACHED TO CABLE TRAYS. VERTICAL DROPS FROM THE CEILING TO BREAK GLASS UNITS SHALL BE IN GALVANIZED STEEL DUCTS.
8. ALL MANUAL CALL POINTS ARE TO BE OF THE FULLY RE-SETTABLE TYPE VIA KEY OPERATION.
9. ALL DOOR LOCKING DEVICES TO BE LINKED TO FIRE ALARM AND BE DE-ACTIVATED IN THE EVENT OF A FIRE.
10. MANUAL CALL POINTS UNITS SHALL BE INSTALLED BETWEEN 900mm AND 1200mm A.F.F.L. AND SHALL BE LOCATED IN EASILY ACCESSIBLE, WELL ILLUMINATED AND CONSPICUOUS POSITIONS FREE FROM OBSTRUCTION. ALL CALL POINTS SHALL HAVE PROTECTIVE COVERS.
11. ALL AUDIBLE WARNING DEVICES SHOULD HAVE A SIMILAR SOUND AND BE DISTINCT FROM ANY OTHER AUDIBLE ALARMS.
12. THE CONTRACTOR SHALL ENSURE THAT ALL VOIDS GREATER THAN 800mm DEPTH SHALL BE COVERED BY ADEQUATE DETECTION TO ENSURE FULL COMPLIANCE WITH IS3218:2009.
13. ALL CABLES SHALL BE LSF (LOW SMOKE FUME) TYPE.

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

ANY SERVICES THAT PENETRATE FIRE RATED CONSTRUCTION MUST BE FIRE STOPPED

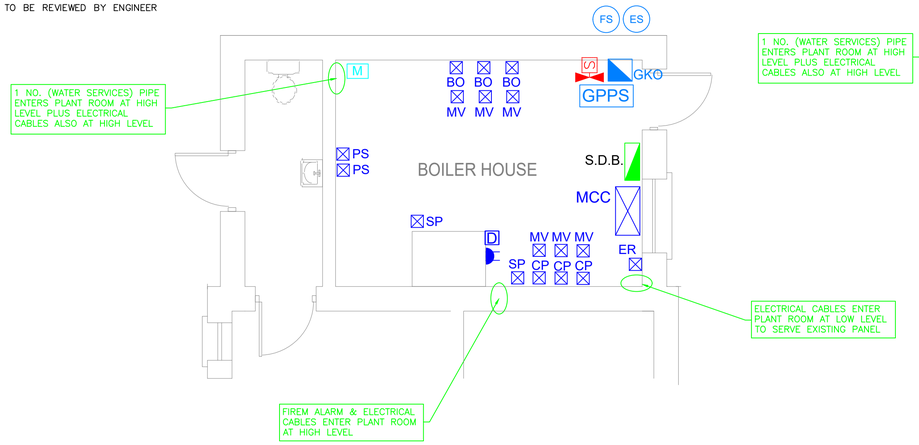
CONTRACTOR TO COMPLY WITH AND INSTALL TO THE NEW NATIONAL RULES AND REGULATIONS FOR ELECTRICAL INSTALLATIONS I.S. 10101:2020

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

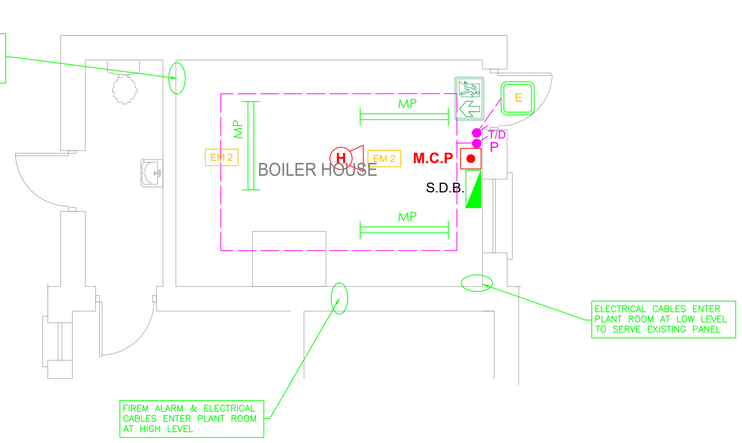
NOTES:- POWER SERVICES

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. ELECTRICAL CONTRACTOR TO ALLOW FOR WIRING OF ROOM THERMOSTATS AND MOTORISED VALVES.
4. ALL DATA POINTS SHALL BE WIRED BACK INDIVIDUALLY TO MAIN DISTRIBUTION FACILITY IN THE OCC ROOM OR NEAREST INTERMEDIATE DISTRIBUTION FACILITY IN CAT 6A CABLE.
5. ALL ELECTRICAL SOCKET OUTLETS, FUSE SPUR OUTLETS AND LIGHT SWITCHES ETC TO BE SURFACE MOUNTED IN BOILER ROOM
6. THE CONTRACTOR SHALL ALLOW FOR A 30 CORE SWA/PVC CONNECTION BETWEEN THE MCC IN BOILER HOUSE AND REMOTE HEATING PANEL LOCATED IN THE GENERAL OFFICE
7. ALL SURFACE MOUNTED SOCKETS TO BE METALCLAD, ALL ELECTRICAL OUTLETS ON DADO TRUNKING TO BE PART M COMPLIANT, HIGH GLOSS, HIGH QUALITY THERMOSET MATERAL.
8. ALL FIRE ALARM CABLES TO BE HIGH QUALITY GOLD ENHANCED TYPE, FIXED TO INDEPENDENT CONTAINMENT AND FIXED WITH SUITABLE FIRE RESISTANCE CLIPS AND TIES WHERE REQUIRED.
9. THE CONTRACTOR SHALL ALLOW FOR THE MONITORING OF THE FIRE ALARM SYSTEM THROUGH THE INTRUDER ALARM MONITORING.
10. ALL CABLES SHALL BE RUN IN STEEL CONDUIT THROUGHOUT. ALL DROPS SHALL ALSO BE IN STEEL CONDUIT THROUGHOUT.
11. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THE WIRING OF ALL MOTORISED VALVES AND ROOM THERMOSTATS ALL INDIVIDUALLY WIRED BACK TO THE BOILER HOUSE PANEL IN BELDEN 2-PAIR SCREENED CABLE. THESE SHALL BE CONTROLLED FROM THE BOILER HOUSE PANEL.
12. CONTRACTOR TO ALLOW FOR THE WIRING OF AN OIL FILLED RADIATOR AND SWITCHED VIA A FROST STAT TO BE LOCATED IN THE BOILER HOUSE.
13. THE CONTRACTOR IS REQUIRED TO REVIEW THE MECHANICAL DRAWINGS AND MAKE ALLOWANCES FOR CONTROLS AND ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.
14. ALL SOCKET OUTLETS SHALL BE SUPPLIED WITH CONVENTIONAL 3-PIN SAFETY COVER INSERTS.
15. ALL CABLES SHALL BE LSF (LOW SMOKE FUME) TYPE.
16. DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION.

ELECTRICAL DRAWING TO BE READ IN CONJUNCTION WITH MECHANICAL CONTROLS DRAWINGS AS FOLLOWS
M4 CONTROLS SCHEMATIC FOR HEATING CENTRE 1
M5 CONTROLS SCHEMATIC FOR HEATING CENTRE 2

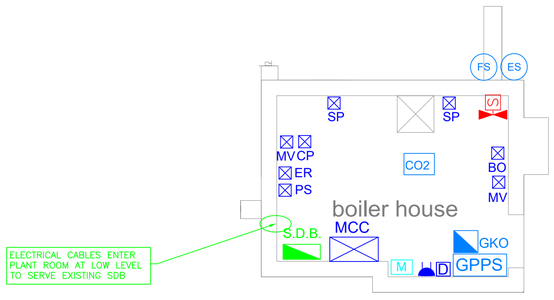


HEATING CENTRE 1

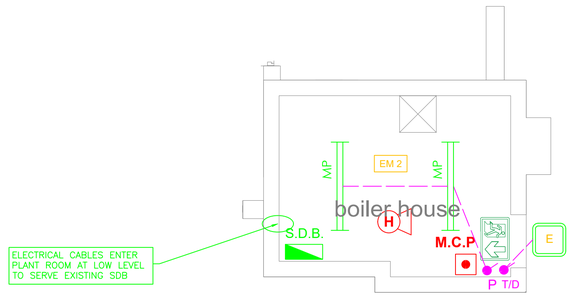


HEATING CENTRE 1

EXISTING PIPED SERVICES ENTERING OR LEAVING BOILER HOUSE INDICATED IN GREEN.



HEATING CENTRE 2



HEATING CENTRE 2

S.D.B. PROPOSED SUB DISTRIBUTION BOARD LOCATION – TO BE WIRED BACK TO MDB.

MCC MECHANICAL CONTROL PANEL (MCC)

RHP REMOTE HEATING PANEL

13A TWIN SWITCHED SURFACE MOUNTED SOCKET OUTLET C/W PART M COMPLIANT SOCKET OUTLET, METALCLAD METALLIC POWER COATED FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT MATERIAL SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT

P.S 13A SWITCHED FUSED SPUR OUTLET- (PRESSURISATION SET) – MK METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN c/w NEON LIGHT.

SP 13A SWITCHED FUSED SPUR OUTLET- (SHUNT PUMP) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN c/w NEON LIGHT.

C.P 13A SWITCHED FUSED SPUR OUTLET- (CIRCULATING PUMP) – MK METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN c/w NEON LIGHT.

B 6A SWITCHED FUSED SPUR OUTLET- (BOILER) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN c/w NEON LIGHT.

E.R. 13A SWITCHED FUSED SPUR OUTLET- (OIL FILLED ELECTRICAL RADIATOR) – MK METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN c/w NEON LIGHT.

IM 20A SWITCHED FUSED SPUR OUTLET- (IMMERSION) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN c/w NEON LIGHT.

MV 13A SWITCHED FUSED SPUR OUTLET (MOTORIZE VALVE) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS c/w NEON LIGHT.

3P/CP 32A 3 PHASE SURFACE SOCKET OUTLET – (CIRCULATING PUMP)) – TOUGH AND IMPACT RESISTANT, GOOD CHEMICAL RESISTANCE, SURFACE BACK BOX WITHOUT KNOCKOUTS – IP67.

D DOUBLE DATA POINT CAT 6A CABLING – 2 No. RJ45 TO BE WIRED IN SEPERATE CONDUIT TO MDF (CAT6a SHIELDED TWISTED PAIR (STP)).

M METERS (Mains Water, Cold Water Supply Gas etc.) TO BE WIRED IN SEPARATE CONTROL SCREEN CABLES TO MECHANICAL CONTROL PANEL

GKO GAS SAFETY KNOCK OFF POINT.

GPPS GAS PRESSURE PROVING SYSTEM PANEL c/w KEY OPERATED EMERGENCY KNOCK OFF.

CO2 DUOMO CO2MC WALL MOUNTED CO2 SENSOR, THREE COLOUR (GREEN/YELLOW/RED) LCD BACKLIGHT INDICATING VENTILATION REQUIREMENT BASED ON CO2 MEASUREMENT

ST SOLENOID VALVE

FS EXTERNAL FROST THERMOSTAT.

ES EXTERNAL SENSOR.

MP THORN AQUAFORCE II LED / AQUAF2 LED 6400 HFI L840 AN IP65, DUST AND MOISTURE RESISTANT LED LUMINAIRE. ELECTRONIC, DALI DIMMABLE. CLASS I ELECTRICAL. CANOPY: LIGHT GREY POLYCARBONATE. DIFFUSER: POLYCARBONATE WITH LINEAR PRISMS. TOGGLES: STAINLESS STEEL. FOR SURFACE OR SUSPENDED MOUNTING. QUICK-FIX BRACKETS SUPPLIED FOR SURFACE MOUNTING. MOUNTING KITS FOR CONDUIT, CHAIN SUSPENSION AND CATENARY SUSPENSION ARE AVAILABLE AS ACCESSORIES. COMPLETE WITH 4000K LED.

E THORN PIAZZA II LED / PIAZZA II LED 2700-840 HF E3TX ANT A ROBUST WALL MOUNTED LUMINAIRE. ELECTRONIC, FIXED OUTPUT CONTROL GEAR WITH 3 HOUR, SELF/ADDRESSABLE TEST, EMERGENCY LIGHTING CIRCUIT. BACK PLATE: DIE-CAST ALUMINIUM, PAINTED ANTHRACITE. BODY: ANTHRACITE POLYCARBONATE. ø20MM CABLE ENTRY VIA REAR OR SIDE CONDUIT ENTRIES, BESA COMPATIBLE. IP65, IK10. COMPLETE WITH 4000K LED.

WALL OR CEILING MOUNTED 3 HOUR MAINTAINED EMERGENCY LED EXIT BOX ADDRESSABLE TEST IF CONNECTED TO KNX, 50,000 HOUR LIFE TO L70 (70% OF INITIAL OUTPUT) IP40, CLASS I ELECTRICAL. BODY IN POLYCARBONATE, FINISHED METALLIC SILVER. DIFFUSER IN POLYCARBONATE.

EM2 VENTILUX OPTIC LED OPNM3/LED/ES/DALI ESCAPE ROUTE NON-MENTAINE SELF-CONTAINED – (ESCAPE ROUTES) HIGH PERFORMANCE LED SELF CONTAINED EMERGENCY LUMINAIRE WITH 3X1 W LED TO GIVE MINIMUM 300 LUMEN OUTPUT WITH REMOTE GEAR CAPABLE OF INSTALLATION THROUGH LUMINAIRE CEILING CUT-OUT, MINIMUM 5 YEAR WARRANTY , BSI APPROVAL REQUIRED AS PER VENTILUX OPTIC OPEN PLAN/ESCAPE ROUTE.

P PULSE SWITCHING – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN.

T/D ONE WAY PULSE SWITCHING – TIME DELAY SWITCH – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN.

H ADDRESSABLE FIXED TEMPERATURE HEAT DETECTOR. C/W SOUNDER CONNECTED BACK TO MAIN FIRE ALARM PANEL

M.C.P MANUAL CALL POINT – BETWEEN 900mm AND 1200mm A.F.F.L. c/w CLIP-ON COVER

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

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	ELECTRICAL SERVICES POWER, LIGHTING & FIRE ALARM SERVICES HEATING CENTRE 1 & 2 LAYOUT.

Job No. E26/2879	Scale 1:50@A1	Cad ref. 2879_Midleton_CBS.dwg
Drg. No. E1		Date JUNE 2026
Drawn PAUL O'BRIEN		
Checked JOHN GEANEY		