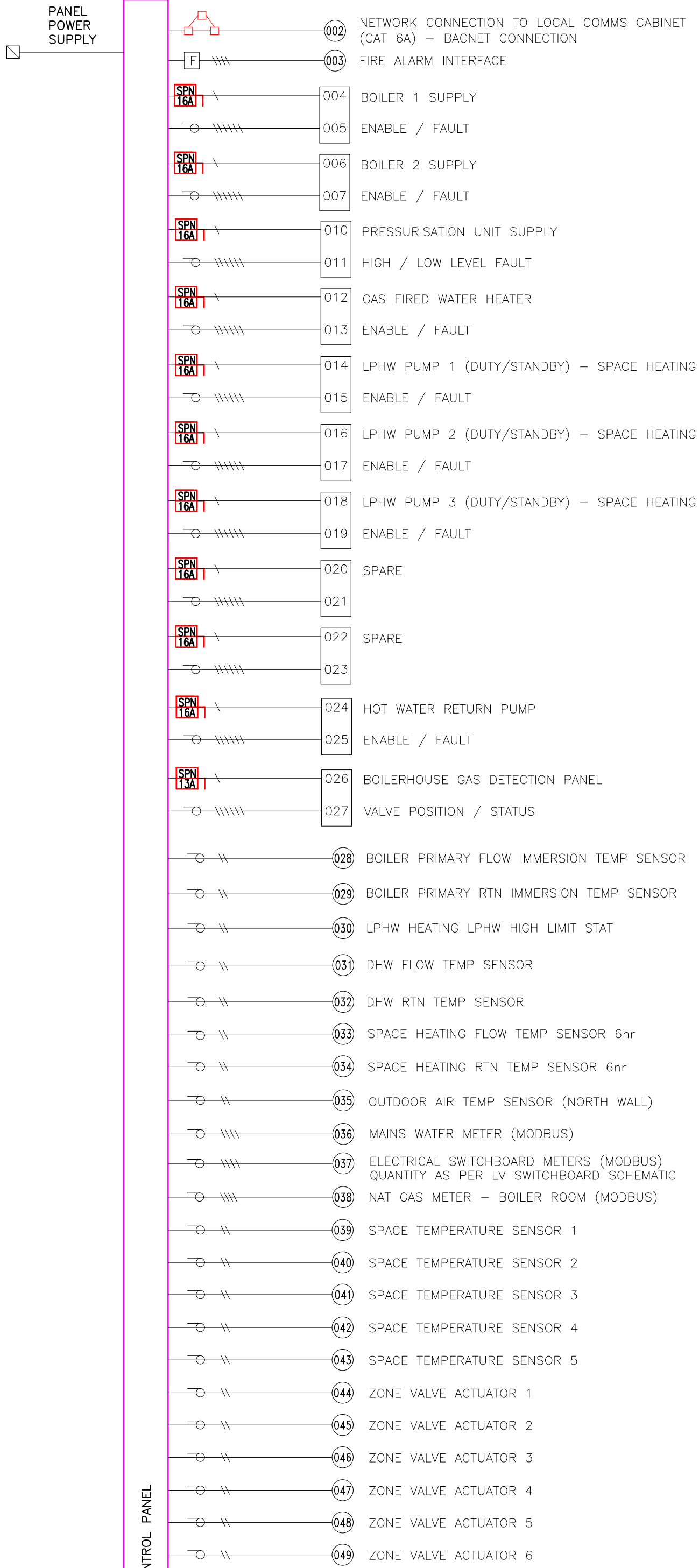




NOTES:  
ALL CABLES DETAILED MUST BE SCREENED.  
2 CORE CABLE AS PER BELDEN REFERENCE 8761  
4 CORE CABLE AS PER BELDEN REFERENCE 9729  
W denotes NUMBER OF CORES  
EARTHING CABLES NOT INDICATED FOR CLARITY  
FINAL CONNECTIONS TO BE COMPLETED BY ELECTRICAL CONTRACTOR

| MECHANICAL/ELECTRICAL SYMBOLS |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
|                               | SINGLE PHASE & N ISOLATOR (RATING AS INDICATED) SUPPLIED AND FITTED BY ELECTRICAL SUB-CONTRACTOR |
|                               | 3 PHASE & N ISOLATOR (RATING AS INDICATED) SUPPLIED AND FITTED BY ELECTRICAL SUB-CONTRACTOR      |
|                               | SWITCHED FUSED-CONNECTION OUTLET WITH NEON (SUPPLIED AND FITTED BY ELECTRICAL SUB-CONTRACTOR)    |
|                               | 3-POLE FAN ISOLATING SWITCH SUPPLIED AND FITTED BY ELECTRICAL CONTRACTOR                         |
|                               | MAIN-SWITCH BOARD                                                                                |
|                               | SUB-DISTRIBUTION BOARD                                                                           |
|                               | INTERFACE UNIT & POWER SUPPLY                                                                    |
|                               | DUAL DATA OUTLET – RJ45                                                                          |
|                               | 2-PORT CONTROL VALVE                                                                             |
|                               | BMS NON-ADJUSTABLE TEMP STAT                                                                     |
|                               | DIGITAL TEMP STAT                                                                                |
|                               | NAT GAS SENSOR                                                                                   |
|                               | BMS METER (PULSED)                                                                               |
|                               | GAS SOLENOID VALVE                                                                               |
|                               | EXTRACT FAN                                                                                      |
|                               | COOKER EXTRACT HOOD                                                                              |
|                               | LOCAL ON/OFF SWITCH                                                                              |
|                               | PRESENCE DETECTOR                                                                                |
|                               | DUCTWORK MOTORISED DAMPER                                                                        |

GENERAL NOTES:

THE ELECTRICAL SUB-CONTRACTOR SHALL WIRE TO THE SCHEDULE OF WIRING DETAILS AS SUBMITTED BY THE SPECIALIST CONTRACTOR PROVIDING THE MECHANICAL CONTROL PANEL.

CONTRACTOR SHALL ALSO ALLOW FOR THE FOLLOWING:

ALL CIRCUITS/CONTROL CABLEING TO BE INSTALLED IN GALVANISED CONDUIT/TRUNKING. MINIMUM SIZE OF CABLE SHALL BE 2.5MM UNLESS OTHERWISE INDICATED.

FINAL CONNECTIONS TO BE CARRIED OUT USING FLEXIBLE METALLIC CONNECTIONS AS PER KOPEX TO IP65. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 1 METRE.

FLEXIBLE CONNECTIONS SHALL BE OF SUFFICIENT LENGTH TO PERMIT THEIR DISCONNECTION TO FACILITATE COMMISSIONING OF STATS ETC BY THE SPECIALIST CONTRACTOR.

ALL ISOLATORS EXTERNALLY LOCATED OR WITHIN THE PLANTROOM SHALL BE OF THE ROTARY TYPE AS PER CRAIG AND DERRICOTT TO IP65 LOCKABLE AND SHALL BE RATED AT 20A.

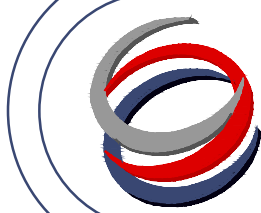
THE ELECTRICAL CONTRACTOR SHALL DETERMINE THE EXACT NO. OF POLES REQUIRED PRIOR TO SUPPLY. ISOLATORS SHALL BE 20A UNLESS OTHERWISE INDICATED.

WHERE A CAT6 CABLE OUT IS DENOTED, THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE A DATA POINT, CABLED BACK TO LOCAL HUB.

FOR COMMISSIONING PURPOSES, THE ELECTRICAL SUB-CONTRACTOR SHALL ALLOW FOR INSTALLING A CAT6 CABLE BETWEEN EACH MECHANICAL CONTROL PANEL.

- MECHANICAL CONTROLS WIRING INSTALLATION NOTES:
- ALL POWER CABLEING TO BE WIRED IN 4 CORE 2.5mm SQ PVC AND SINGLE CORE 2.5mm SQ CPC, UNLESS OTHERWISE STATED. ALL WIRING TO BE INSTALLED IN GALVANISED STEEL CONDUIT/TRUNKING THROUGHOUT ENTIRE ROUTE.
  - ALL CONTROL WIRING AND SENSORS TO BE COMPLETED IN BELDON 0.75mm SQ (MIN) SCREENED CABLE.
  - ALL CONTROL VALVE ACTUATORS, CONTROLLERS, TO BE COMPLETED IN BELDON 1.5mm SQ (MIN) SCREENED CABLE.
  - ALL WIRING TO EXTRACT FANS SHALL BE COMPLETED IN 1.5mm SQ LSF.
  - ALL BMS MECHANICAL FIELD EQUIPMENT INCLUDING BUT NOT LIMITED TO CONTROL PANEL, CONTROL VALVES, SENSORS, VALVES ACTUATORS, FANS, METERS ETC SHALL BE SUPPLIED & INSTALLED BY THE MECHANICAL SERVICES CONTRACTOR BUT WIRED AND TERMINATED BY THE ELECTRICAL CONTRACTOR.
  - ALL BMS POWER & CONTROL WIRING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
  - ALL BMS POWER & CONTROL WIRING TERMINATIONS AT THE MCC CONTROL PANEL SHALL BE CARRIED OUT BY THE ELECTRICAL CONTRACTOR.
  - THE ELECTRICAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SUPPLY & INSTALL OF THE CONTROL CABLEING BETWEEN DIRECT ACTING EQUIPMENT i.e. EXTRACT FANS TO PIR/LIGHTSWITCH/SPEED CONTROLLERS AND HEATING CONTROL VALVES TO WALL TEMPERATURE SENSORS.
  - ALL VENTILATION WORKS INDICATED (UNLESS OTHERWISE STATED) SHALL BE WIRED OFF LOCAL LIGHTING CIRCUIT VIA A FUSED NEON INDICATING CONNECTION UNIT.
  - ALL MECHANICAL PLANT ITEMS SHALL BE LOCATED AND FIXED BY THE MECHANICAL SUB-CONTRACTOR PRIOR TO THE ELECTRICAL SUB-CONTRACTOR WIRING SAME.
  - ANY ITEMS NOT REFERRED TO AS FREE ISSUE ARE TO BE SUPPLIED BY THE ELECTRICAL SUB-CONTRACTOR.
  - FINAL LOCATION AND HEIGHTS OF ALL SENSORS AND THERMOSTATS, ETC. TO BE AGREED ONSITE WITH ENGINEER AND SPECIALIST SUB-CONTRACTOR PRIOR TO INSTALLATION.

TENDER

| REV / DESCRIPTION                                                                                                                                                                                                                                                                                                         |  | DRN        | CKD               | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-------------------|------|
| ISSUE                                                                                                                                                                                                                                                                                                                     |  | TENDER     |                   |      |
| <div><div></div><div><div>semple<br/>mckillop</div></div></div>                                                                                                                                                                      |  |            |                   |      |
| <div><div><div></div><div><div>NATURALLY INNOVATIVE CONSULTING ENGINEERS</div><div>Belfast +44 (0)28 90331700<br/>Castleblayney +353 (0)42 9749570</div><div>www.semplemckillop.com admin@semplemckillop.com</div></div></div></div> |  |            |                   |      |
| PROJECT TITLE<br>ST OLIVERS CC DROGHEDA EWS2026                                                                                                                                                                                                                                                                           |  |            |                   |      |
| DRAWING TITLE<br>BMS INSTALLATION                                                                                                                                                                                                                                                                                         |  |            |                   |      |
| DRAWING REFERENCE<br>3279-SMK-ZZ-LL-DR-M-5901                                                                                                                                                                                                                                                                             |  | DRN<br>CMG | SCALE<br>A1 1:100 |      |