

NOTES:-

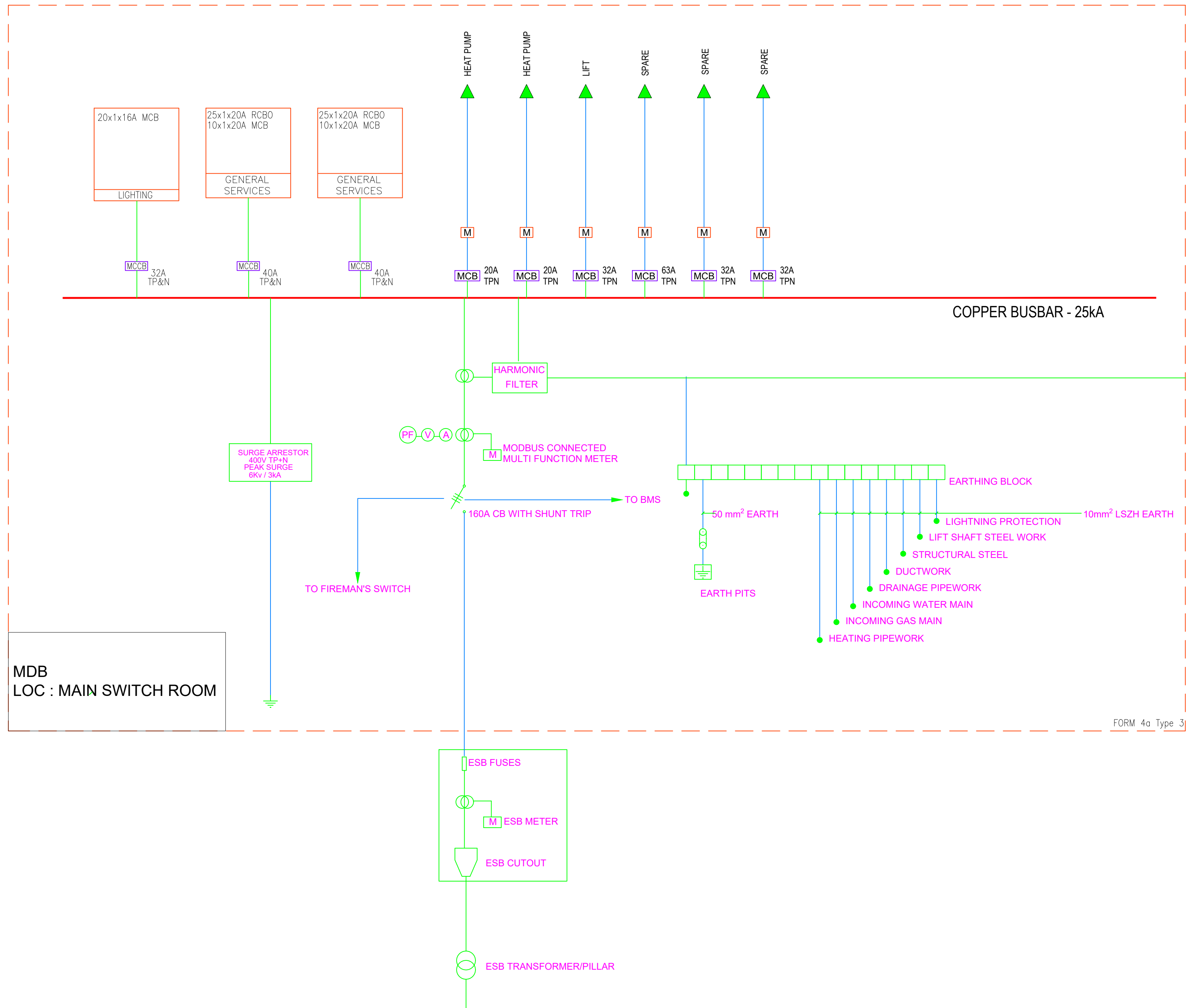
- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL THEIR DRAWINGS.
- MAIN INCOMING MCCB SHALL CONTAIN A 'ELECTRONIC RELEASE' AND HAVE A RATED PROSPECTIVE SHORT CIRCUIT CURRENT OF NOT LESS THAN 40ka AT A POWER FACTOR OF 0.2 AND SHALL BE TESTED TO P2 CATEGORY IEC157-1.
- TO ENSURE DISCRIMINATION THE MAIN INCOMING MCCB SHALL BE 3 POLE FIXED - TYPE ABB TMAX T2 WITH PR221 MICROPROCESSOR TRIP UNIT, OR EQUAL AND APPROVED. SUB-FEEDERS TO BE 3 POLE MCCB'S - TYPE ABB TMAX WITH THERMOMAGNETIC RELEASES (T ADJUSTABLE, M FIXED 5x ITH), OR EQUAL AND APPROVED. DISCRIMINATION STUDY TO BE SUBMITTED WITH ALL ALTERNATIVES.
- THE MAIN BOARD SHOULD COMPLY FULLY WITH BS 60439 BUSBARS SHALL BE HDHC COPPER OF UNIFORM CROSS SECTION AND SHALL COMPLY FULLY WITH BS 159. THE BUSBAR SYSTEM SHALL BE TESTED IN ACCORDANCE WITH IEC 439 AND BE CAPABLE OF CARRYING THE CONTINUOUS LOAD CURRENT AS SPECIFIED ELSEWHERE IN THE DOCUMENT.

ELSEWHERE IN THE DOCUMENT.

- BUSBAR CONNECTIONS UP TO 63 AMP MAY BE EFFECTED BY MEANS OF CABLE, BRACED AND SUPPORTED AS NECESSARY, WHEREAS CONNECTIONS ABOVE 63 AMP SHALL BE MADE BY MEANS HDHC RECTANGULAR SECTION COPPER BUSBAR, INSULATED AND SUPPORTED AS NECESSARY.
- TIME SWITCHES SHALL BE DIGITAL 7 DAY, 24 HOUR TYPE, COMPLETE WITH DAY OMISSION AND 36 HOUR SPRING RESERVE.
- INSTALLATION RADII ON MEDIUM VOLTAGE CABLE SHALL BE AS LARGE AS POSSIBLE AND SHALL IN NO INSTANCE BE LESS THAN 18 TIMES THE OVERALL CABLE DIAMETER.
- THE EMPLOYERS REPRESENTATIVE'S APPROVAL/COMMENT/VERIFICATION OF WORKING OR MANUFACTURING DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN RESPECT OF THE ACCURACY OF ALL SUCH DRAWINGS NOR FROM HIS RESPONSIBILITY FOR PROVIDING EQUIPMENT SUITABLE IN DIMENSIONS, CONSTRUCTION AND FINISH FOR THE LOCATION IN WHICH IT IS TO BE INSTALLED.

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- METERING WITH MODBUS OUTPUT SHALL BE PROVIDED AT ALL LIGHTING DISTRIBUTION BOARDS.
- 25% SPARE CAPACITY SHALL BE PROVIDED IN ALL SWITCHGEAR ASSEMBLES.
- VAMPIRE LOAD IS BEING EMPLOYED IN THIS SCHOOL. ALL NON ESSENTIAL SERVICES WILL DISCONNECT WITH INPUT FROM BMS. THE BMS WILL GET A SIGNAL FROM THE SECURITY ALARM. 15 MINUTES AFTER IT IS SET THE NON ESSENTIAL SERVICES SHALL TURN OFF. IN THE PE HALL, THE PARTIAL SETTING OF THE ALARM FOR OUT OF HOURS USAGE SHOULD ONLY ACTIVATE THE VAMPIRE LOADING IN THE AREA WHERE THE ALARM IS ACTIVATED. WHEN THE PE HALL ALARM IS SET THAT AREA SHOULD ALSO ACTIVATE THE VAMPIRE LOAD SHEDDING STRATEGY.
- ESSENTIAL SERVICES INCLUDE ALL LIGHTING, EMERGENCY LIGHTING, COMMUNICATIONS, SECURITY AND FIRE ALARM ARE NOT PART OF THE LOAD SHEDDING AND SHOULD NOT BE SWITCHED OFF.
- A MANUAL BYPASS (HAND / OFF / AUTO) SHALL BE INCLUDED IN THE BOARD SO THAT THE LOAD SHEDDING CAN BE BYPASSED IF REQUIRED IN THE EVEN OF BMS, INTRUDER ALARM OR CONTACTOR FAILURE.
- THE BMS CONTACTOR SHALL ENERGISE ALL THE VAMPIRE LOAD SHEDDING CONTACTORS ONCE THE SECURITY ALARM IS UNSET.



FORM 4a Type 3

NOTES:

GENERAL NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, C&S ENGINEERS AND FSC DRAWINGS & SPECS.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
- DO NOT SCALE - WORK TO FIGURE DIMENSIONS ONLY.

LEGEND:

- MDB MAIN DISTRIBUTION BOARD
- SDB SUB MAIN DISTRIBUTION BOARD
- FDB FLOOR DISTRIBUTION BOARD
- MCC MOTOR CONTROL CENTER
- ACP ACCESS CONTROL PANEL
- FAP FIRE ALARM PANEL
- DAR DISABLE ALARM REMOTE INDICATOR
- PACU PUBLIC ADDRESS CONTROL UNIT
- IAP INTRUDER ALARM PANEL
- ASHP AIR SOURCE HEAT PUMP
- 30 SWITCH FUSE (RATING AS NOTED)
- MULTIFUNCTION METER LINKED TO BMS
- CURRENT TRANSFORMER
- MOULDED CASE CIRCUIT BREAKER (RATING AS NOTED)
- MINIATURE CIRCUIT BREAKER (RATING AS NOTED)
- AIR CIRCUIT BREAKER (RATING AS NOTED)
- POWER FACTOR CORRECTION CAPACITOR BANK



Referenced drawings	
Dwg. No.	Dwg. Title

Issue register				
Rev.	Date	Description	Dwn.	Chkd.
CT	23/36/26	TENDER ISSUE	JM	PP

Client:		TIPPERARY COUNTY COUNCIL	
Job Description:		CAIR DIGITAL HUB	
Status:		TENDER	
Drawing Title:		MAIN SWITCHROOM SCHEMATIC	
Drawing Ref:		21ME006 E-001	
Date:		13/12/24	
Scale:		VARIES @ A1	
Drawn By:		JM	
Checked By:		JM	
Approved By:		PP	

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