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PROJECT: RSGT

PROJECT LOCATION: LIVERPOOL

PROJECT REFERENCE NUMBER: 291926

CLIENT: PEEL PORTS

CLIENT ADDRESS: MARITIME CENTRE PORT OF LIVERPOOL

CLIENT ORDER NUMBER: ????

CONTROL SYSTEM DETAILS & SPECIFICATION

SYSTEM TYPE:	SAFE AREA
ENCLOSURE MATERIAL:	MILD STEEL
RATED VOLTAGE:	400V AC
RATED FREQUENCY:	50 Hz
RATED AMPERE:	???A
CONTROL VOLTAGE:	24V DC
DEGREE OF PROTECTION:	IP 55
PAINT FINISH:	POWDER COATED RAL7035
YEAR OF MANUFACTURE:	2022

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REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 01 OF 40

CURRENT CIRCUIT	CONDUCTOR	WIRING COLOUR	MINIMUM CROSS-SECTION
3-PHASE POWER	L1	BROWN	2.5mm2
3-PHASE POWER	L2	BLACK	2.5mm2
3-PHASE POWER	L3	GREY	2.5mm2
3-PHASE NEUTRAL	N	LIGHT BLUE	2.5mm2
1-PHASE POWER	L1	BROWN	1.5mm2
1-PHASE POWER	N	LIGHT BLUE	1.5mm2
24VDC	+	DARK BLUE	0.75mm2
24VDC	-	DARK BLUE	0.75mm2
MEASURING	+/-	GREY	0.5mm2
EXTERNAL VOLTAGE		ORANGE	1.5mm2
PROTECTIVE EARTH CONDUCTOR	PE	GREEN/YELLOW	1.5mm2

MEASURING LINES:

- [x] SINGLE CONDUCTOR
- [ ] TWISTED PAIRS
- [x] ANALOGUE SIGNAL IN SHIELDED PAIRS

TYPE OF CONNECTION:

- [x] WIRE END BOOTLACE CRIMP
- [ ] WIRE END PIN CRIMP
- [ ] FORK TYPE CRIMP
- [ ] ISOLATED
- [ ] NO CRIMP

WIRE MARKING:

- [ ] NONE
- [ ] WIRE DESIGNATION, SEMI OPEN
- [ ] WIRE TARGET DESTINATION
- [x] CURRENT PATH DESIGNATION

SPECIFICS:

- [ ] HALOGEN FREE
- [x] IP20 FOR INFEED TERMINALS
- [x] BUS-BAR PE

CONSTRUCTION NOTES:

1. TERMINALS:
   POWER WDU4
   INSTRUMENT WDU2.5

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CODE OF ELECTRICAL SYMBOLS

Q = MAIN ISOLATING SWITCH

QFM = ISOLATING CIRCUIT BREAKER (3 POLE)

QFM = ISOLATING CIRCUIT BREAKER (2 POLE)

QFM = ISOLATING CIRCUIT BREAKER (1 POLE)

CONTACT (POWER) NORMALLY OPENED

CONTACT-THERMOSTAT NORMALLY CLOSED

FU = OVERLOAD PROTECTIVE DEVICE (3 POLE)

SF = SELECTOR SWITCH 2 POSITION / STAY PUT

SF = PUSH BUTTON / SPRING RETURN NORMALLY OPEN

SF = PUSH BUTTON / SPRING RETURN NORMALLY CLOSED

Kx = CONTROL COIL

PLC INPUT

PLC OUTPUT

INDICATION LED

HEATER

RESISTOR

PSU = AC TO DC POWER CONVERSION

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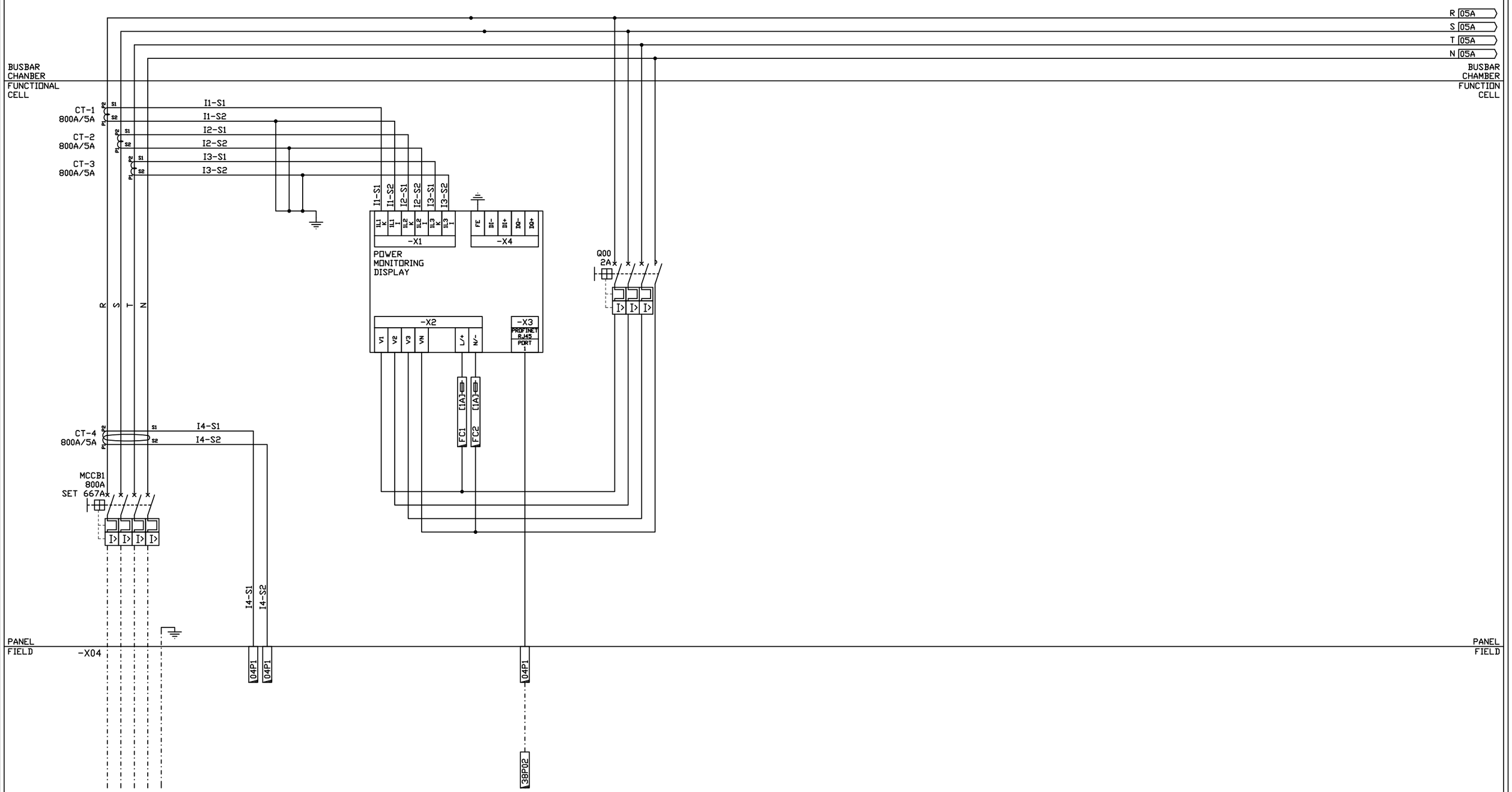

MAINS INCOMING SUPPLY 3PH/N/E 433VAC 800A	CORE BALANCE CT (TO CELL B2)	POWER MONITORING DISPLAY			
			POWER SUPPLY FUSES	PROFINET CONNECTION RJ45	AC VOLTAGE MONITORING ISOLATION MPCB

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CELL A1
MAIN INCOMER

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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
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		CHECKED	M.WRIGHT
		DATE	10/10/2022
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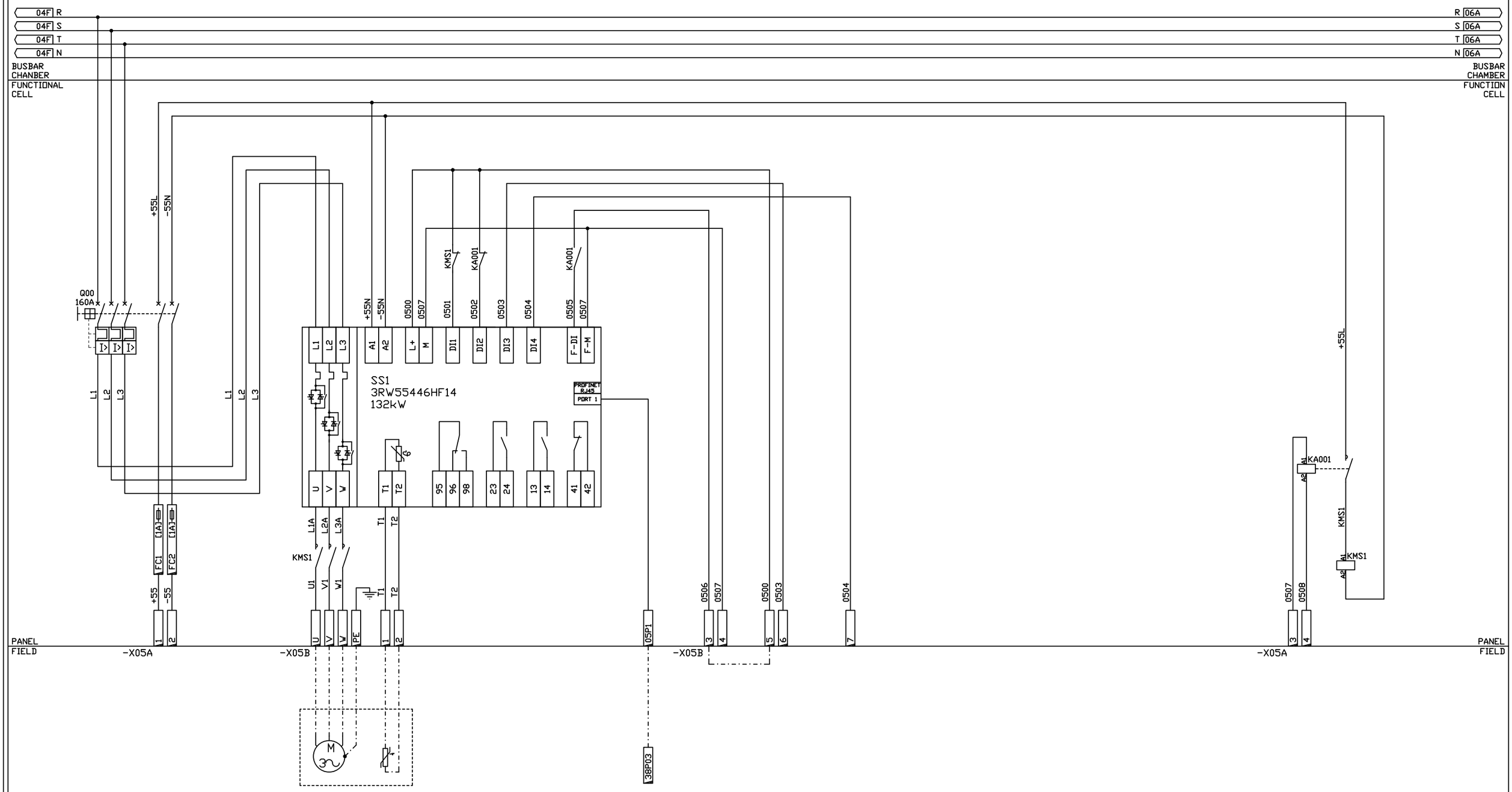

MAIN SUPPLY MCCB		CONVEYOR MC1								
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL B2	MILL FEED MOTOR 132KW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45 (INTERNAL)	SAFE TORQUE OFF REMOTE CONNECTION (LINK TERMINAL IF NOT IN USE)	SPARE	SPARE	SAFETY CIRCUIT HEALTHY FROM EXTERNAL I/O PANEL	SAFETY CONTACTOR COIL

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CELL A2
MILL FEED CONVEYOR MC1

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

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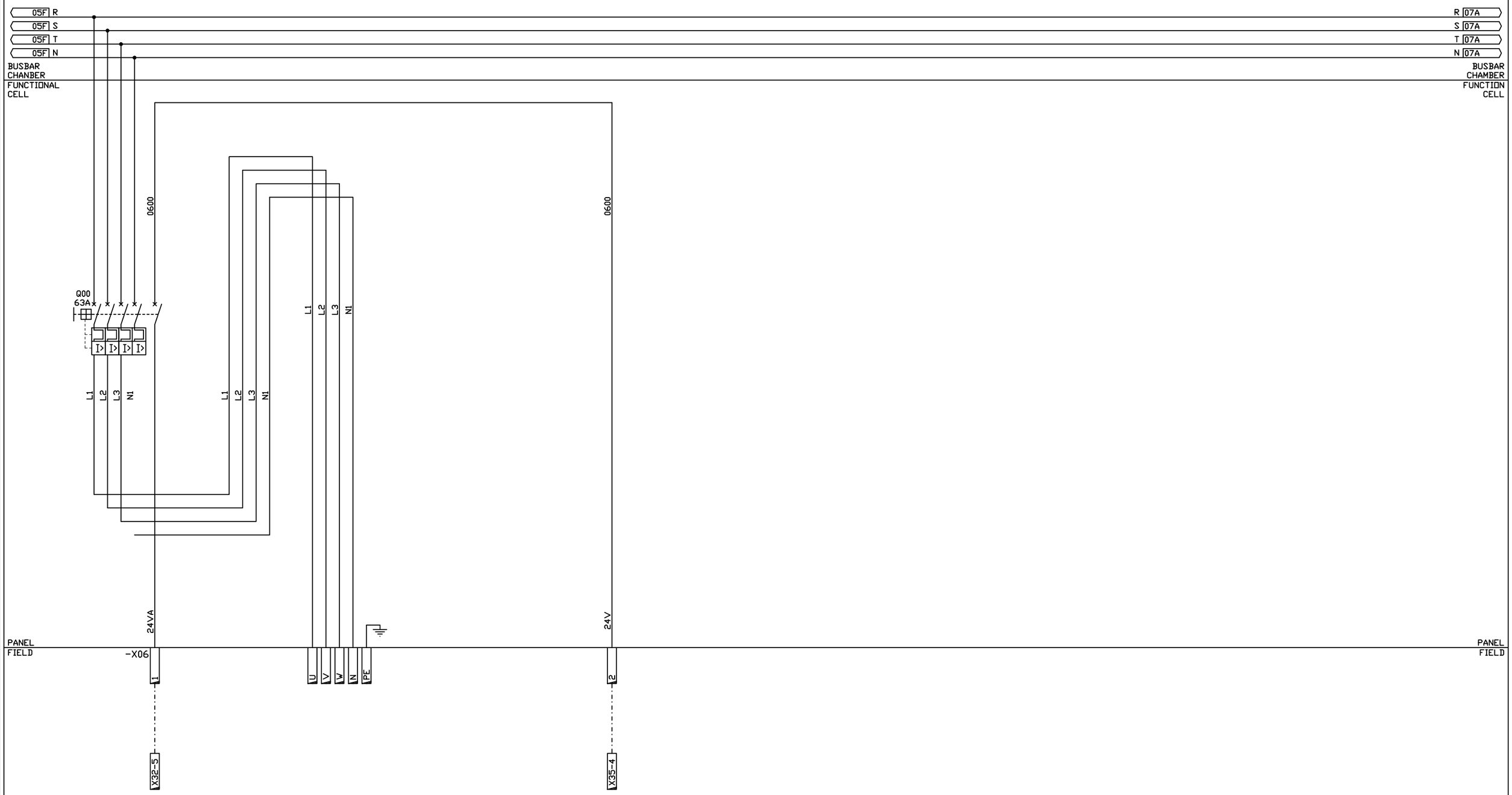

MAIN SUPPLY ISOLATOR					
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2		LORRY LOADING SCALE ROOM FEEDER		ISOLATOR STATUS FEEDBACK

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CELL A3
LORRY LOADING SCALE ROOM FEEDER

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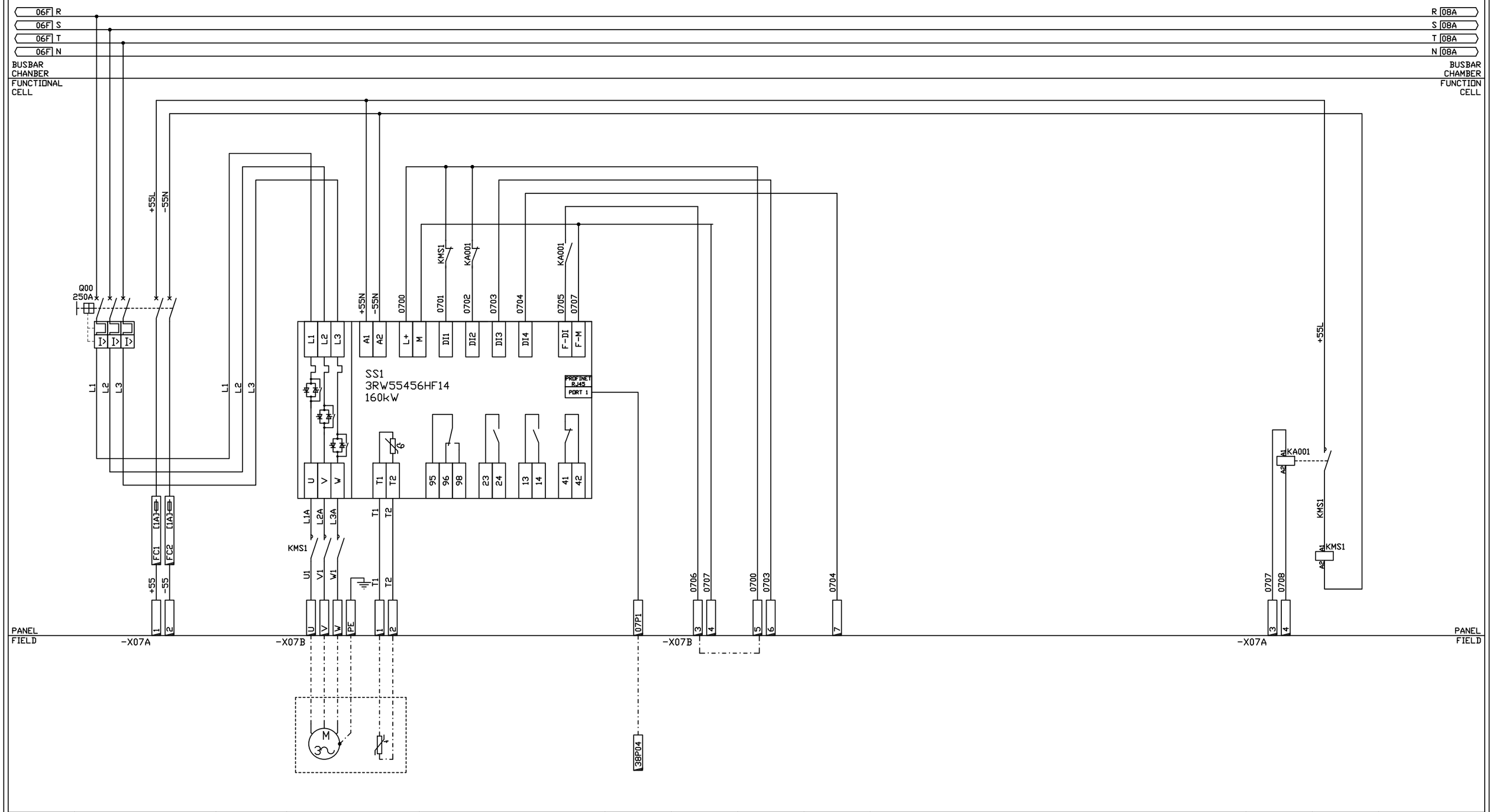

MAIN SUPPLY MCCB		CONVEYOR BB1								
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL B2	MILL FEED MOTOR 160KW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45 (INTERNAL)	SAFE TORQUE OFF REMOTE CONNECTION (LINK TERMINAL IF NOT IN USE)	SPARE	SPARE	SAFETY CIRCUIT HEALTHY FROM EXTERNAL I/O PANEL	SAFETY CONTACTOR COIL	

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CELL B1
BASEMENT BELT CONVEYOR BB1

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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
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		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
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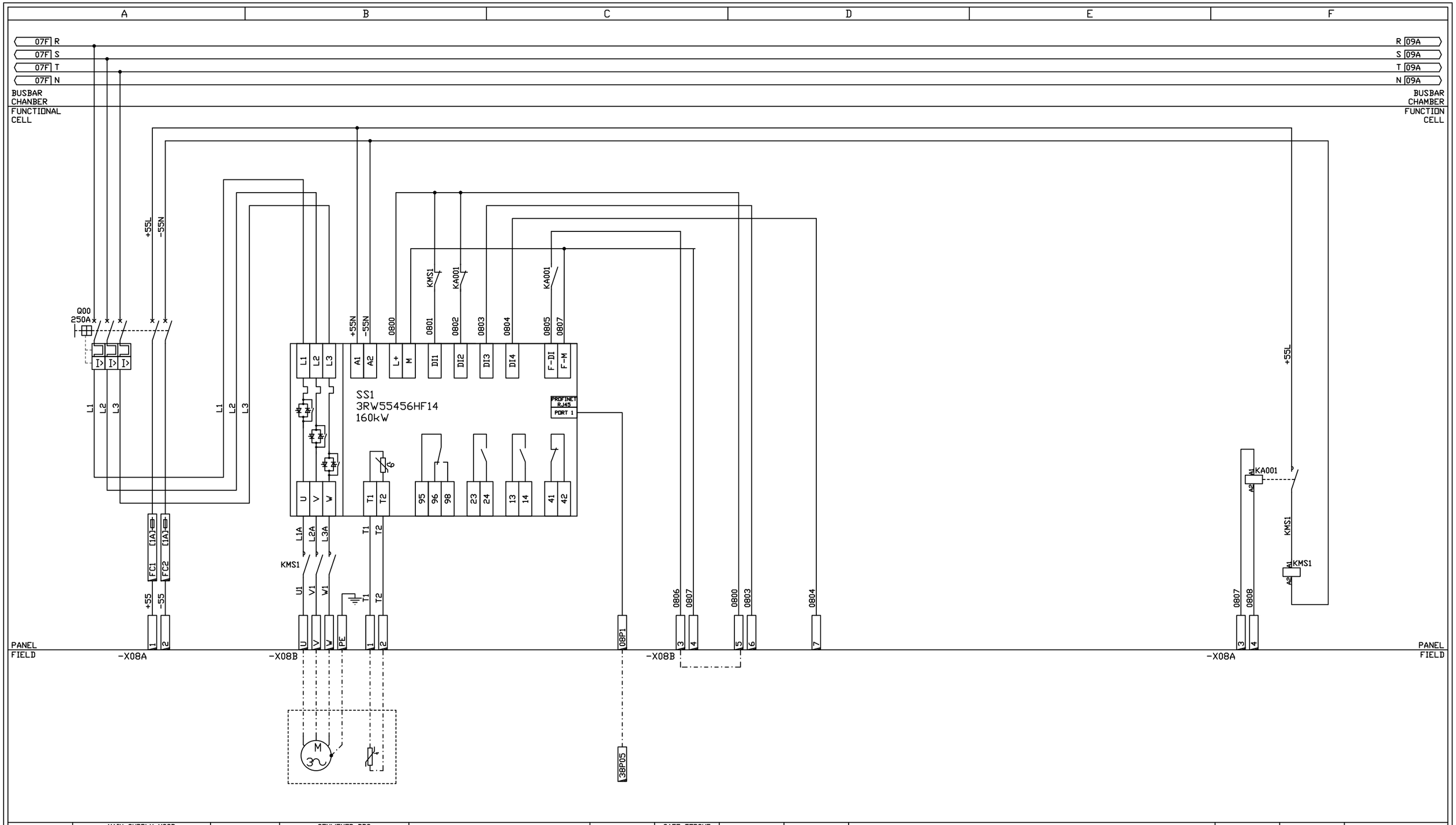

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CELL C1
BASEMENT BELT CONVEYOR BB2

REV	DATE	DETAIL
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CLIENT	PEEL PORT
INSTALL	RSGT LIVERPOOL
TITLE	MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
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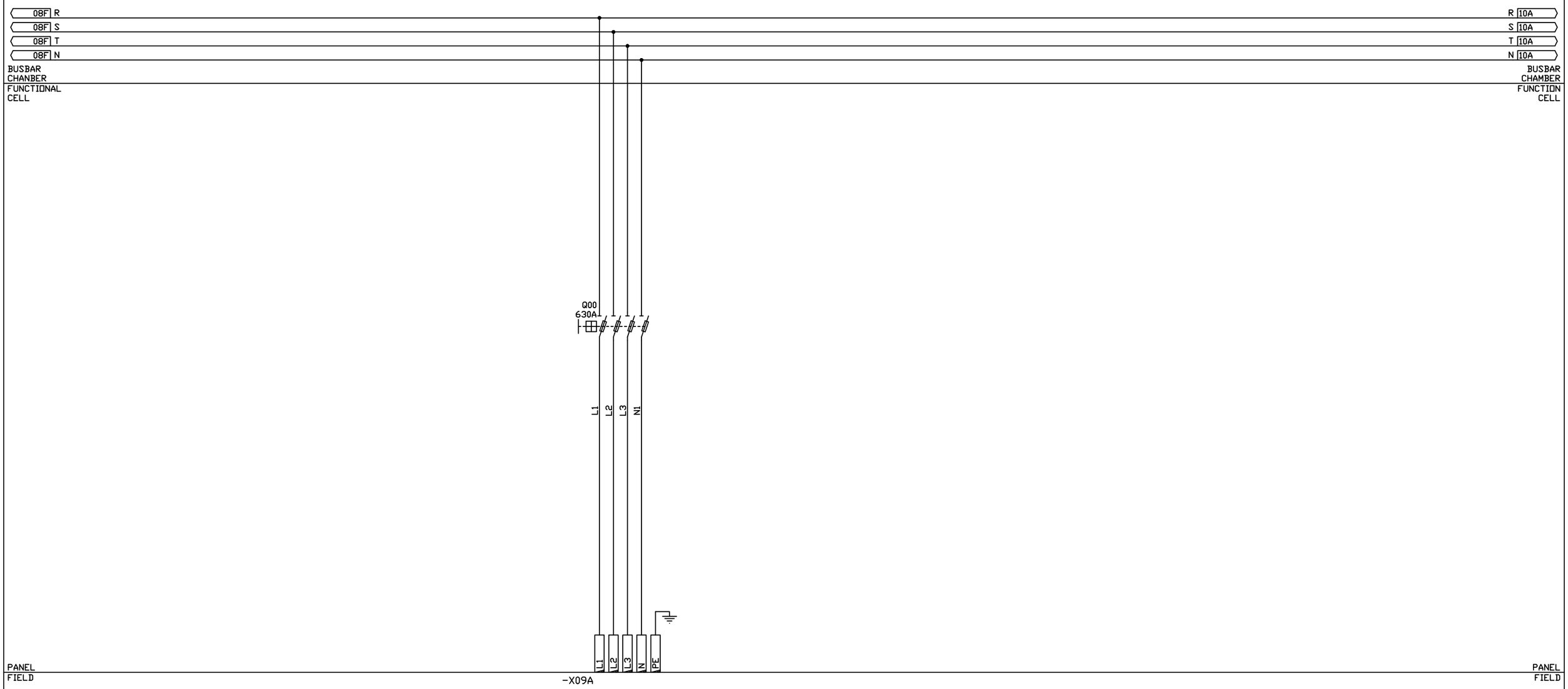

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CELL C2
FEEDER TO EXISTING MCC2A

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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
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		CHECKED	M.WRIGHT
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09F R — R 11A
09F S — S 11A
09F T — T 11A
09F N — N 11A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL C3
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL C3
SPARE - NO EQUIPMENT

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10F R — R 12A
10F S — S 12A
10F T — T 12A
10F N — N 12A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL C4
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL C4
SPARE - NO EQUIPMENT

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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
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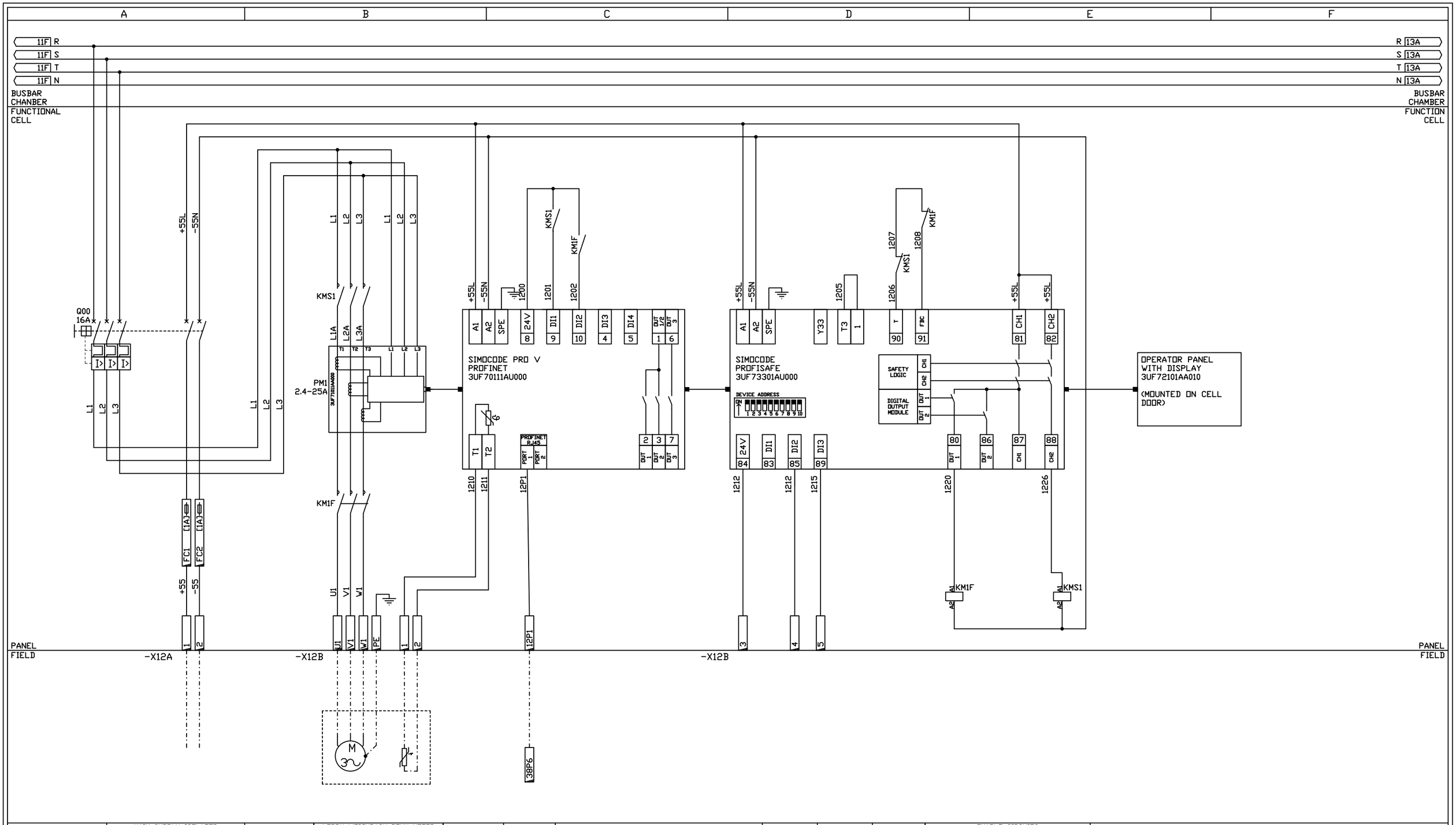

MAIN SUPPLY ISOLATOR			LORRY WEIGHBACK PONY MOTOR			PROFINET CONNECTION RJ45		SPARE	SPARE		ENABLE CIRCUITS		
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL A1		VALVE MOTOR ???KW FLC=xxxA	MOTOR THERMISTOR							MOTOR FWD COIL		SAFETY CONTACTOR COIL

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CELL D1
LORRY WEIGHBACK PONY MOTOR FEEDER

CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
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		CHECKED	M.WRIGHT
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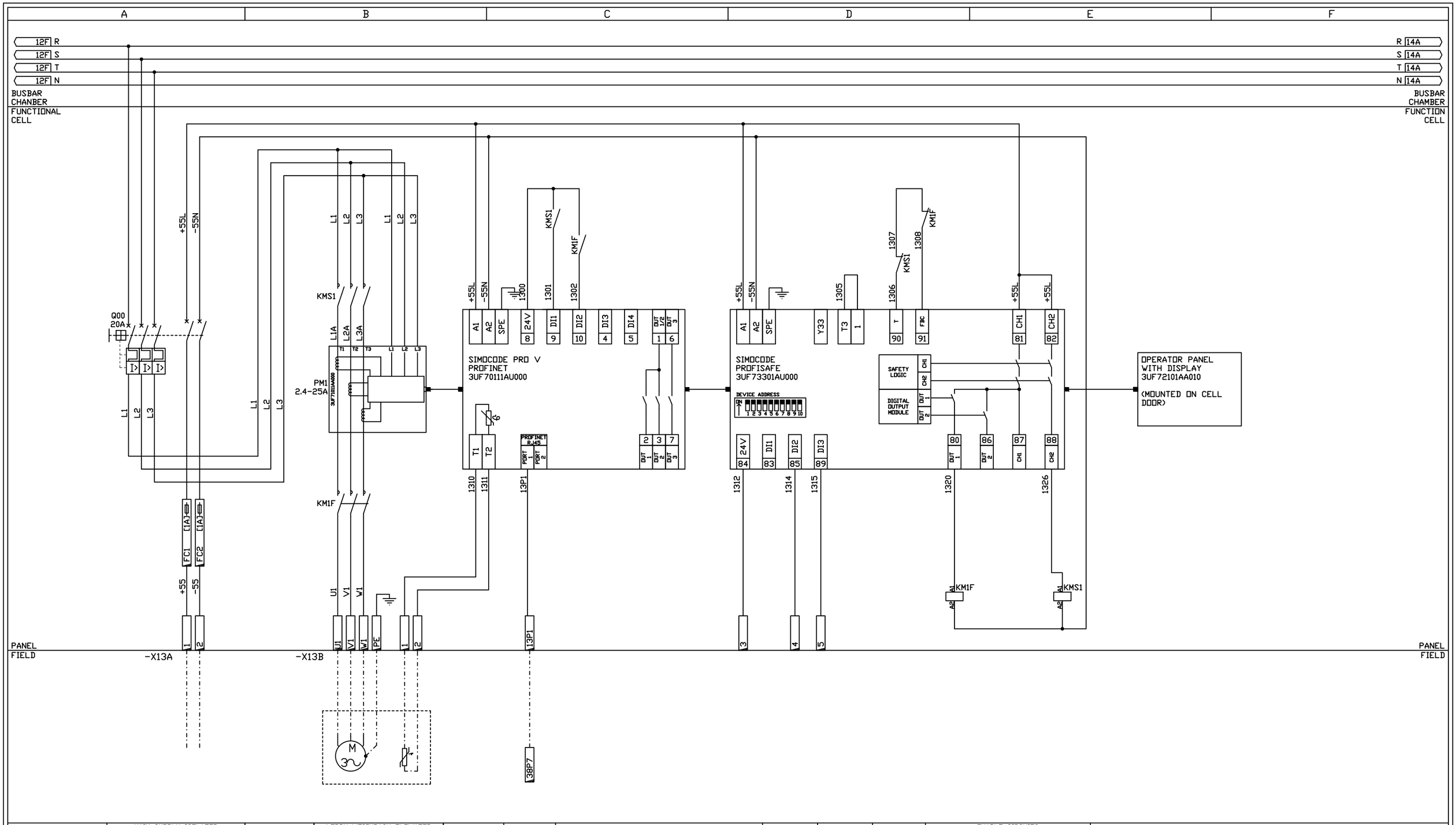

MAIN SUPPLY ISOLATOR			LORRY WEIGHBACK ELEVATOR			PROFINET CONNECTION RJ45		SPARE	SPARE		ENABLE CIRCUITS		
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL A1		VALVE MOTOR ???KW FLC=xxxA	MOTOR THERMISTOR							MOTOR FWD COIL		SAFETY CONTACTOR COIL

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CELL D2
LORRY WEIGHBACK ELEVATOR

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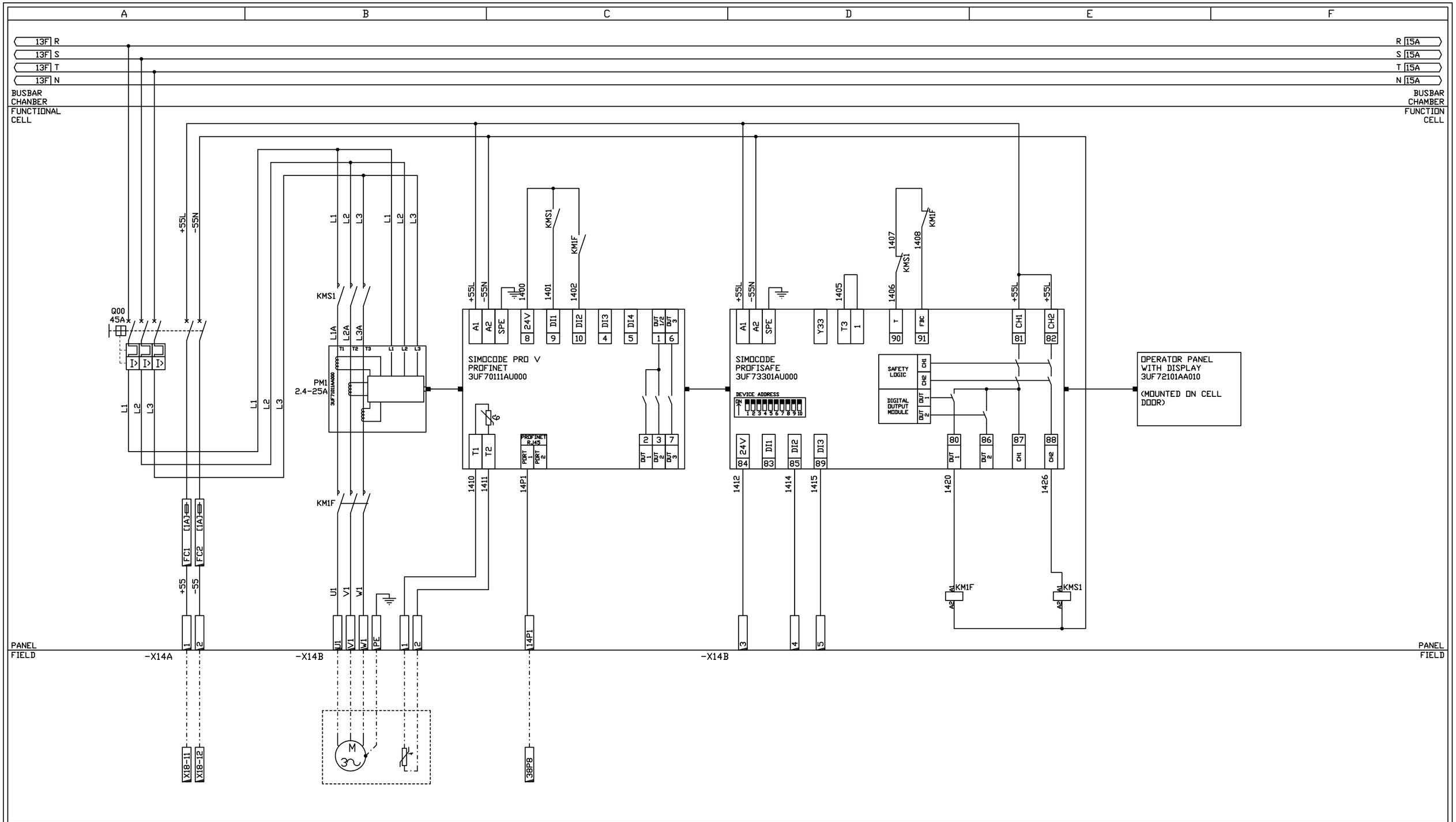

MAIN SUPPLY ISOLATOR		LORRY WEIGHBACK LWCC1			PROFINET CONNECTION		SPARE	SPARE		ENABLE CIRCUITS		
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL A1	VALVE MOTOR ???KW FLC=xxxA	MOTOR THERMISTOR		RJ45					MOTOR FWD COIL		SAFETY CONTACTOR COIL

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CELL D3
LORRY WEIGHBACK CHAIN CONVEYOR LWCC1

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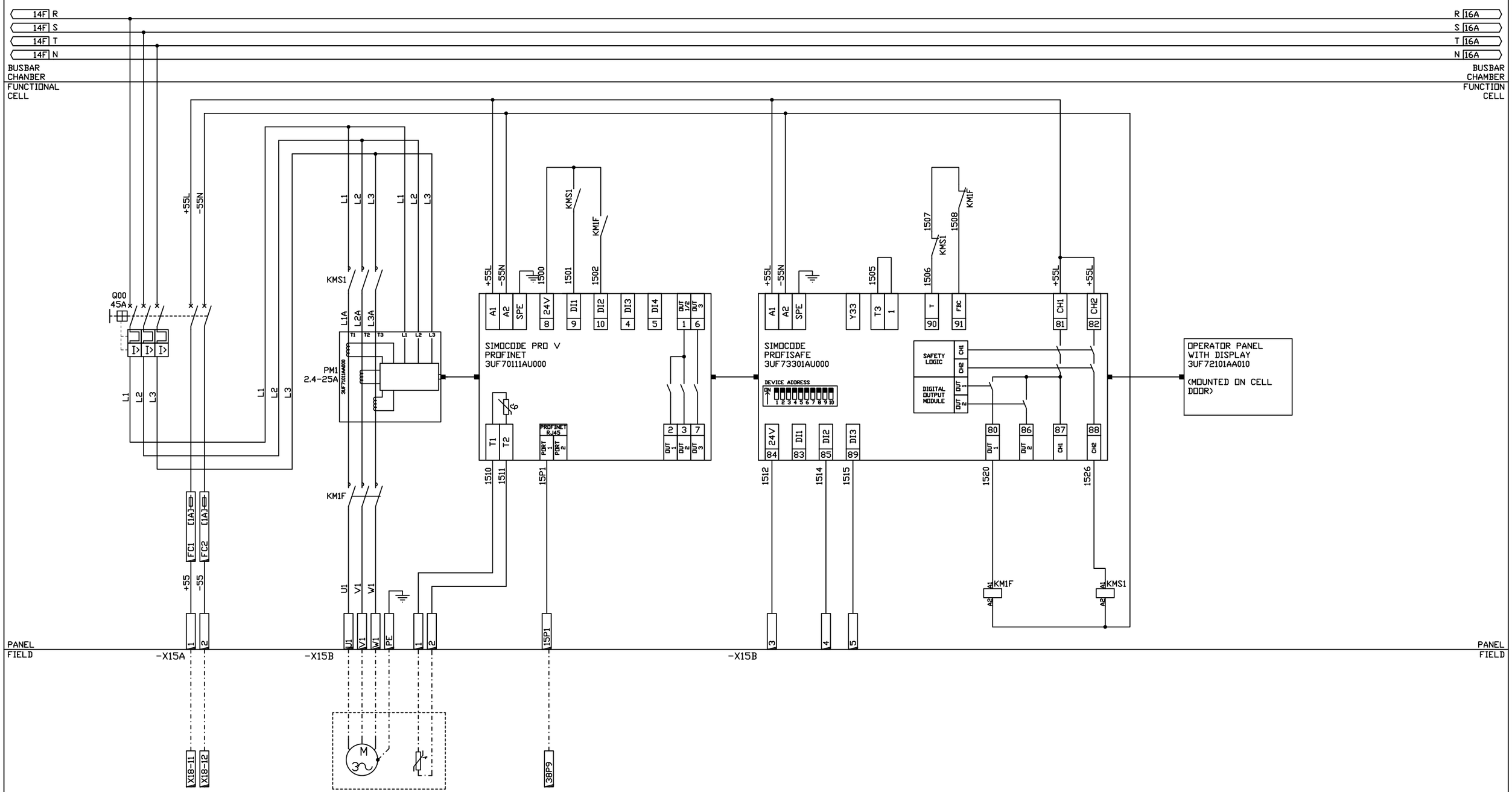

MAIN SUPPLY ISOLATOR			LORRY WEIGHBACK LWCC2			PROFINET CONNECTION RJ45		SPARE	SPARE		ENABLE CIRCUITS		
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL A1		VALVE MOTOR ???KW FLC=xxxA	MOTOR THERMISTOR							MOTOR FWD COIL		SAFETY CONTACTOR COIL

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CELL D4
LORRY WEIGHBACK CHAIN CONVEYOR LWCC2

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		CHECKED	M.WRIGHT
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15F R — R 17A
15F S — S 17A
15F T — T 17A
15F N — N 17A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL D5
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL D5
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
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16F R — R 18A
16F S — S 18A
16F T — T 18A
16F N — N 18A

BUSBAR CHANBER — BUSBAR CHAMBER
FUNCTIONAL CELL — FUNCTION CELL

CELL D6
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL D6
SPARE - NO EQUIPMENT

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17F S — S 19A
17F T — T 19A
17F N — N 19A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL D7
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL D7
SPARE - NO EQUIPMENT

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

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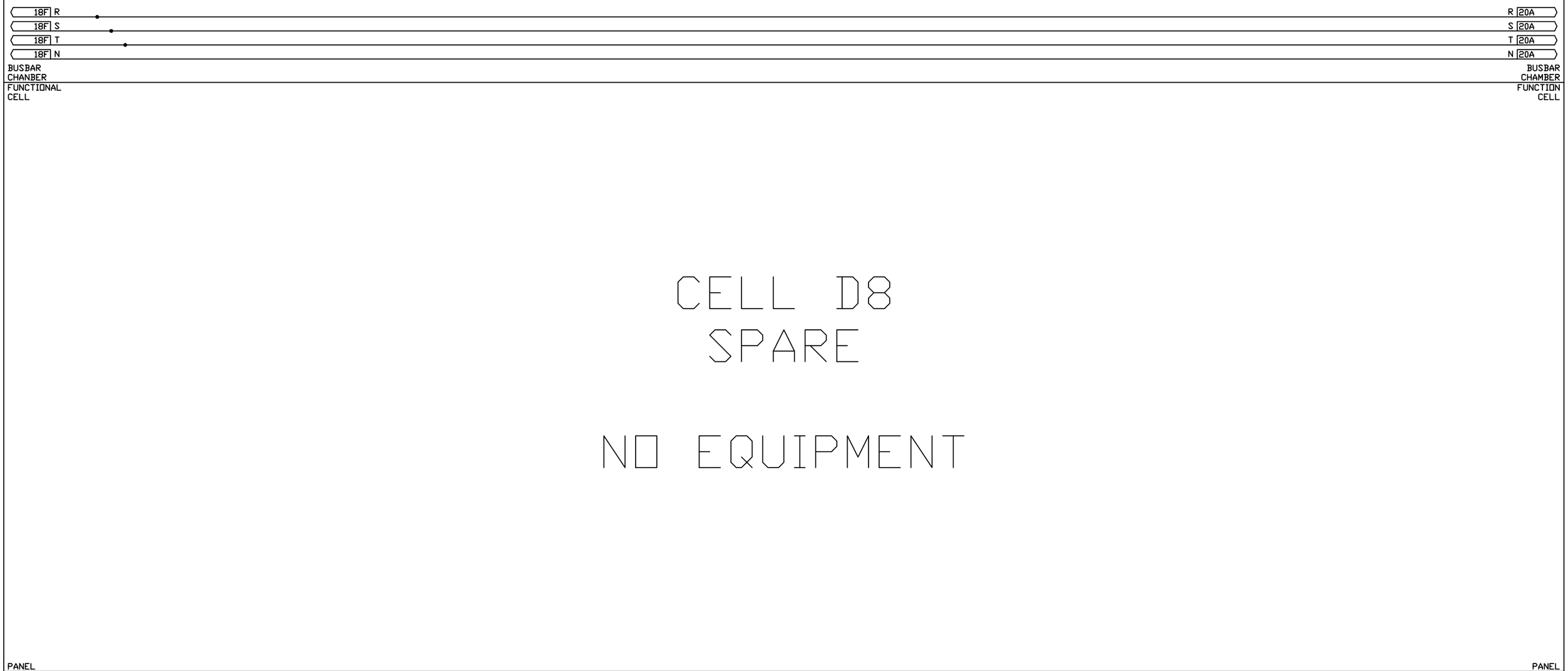

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CELL D8
SPARE - NO EQUIPMENT

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		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
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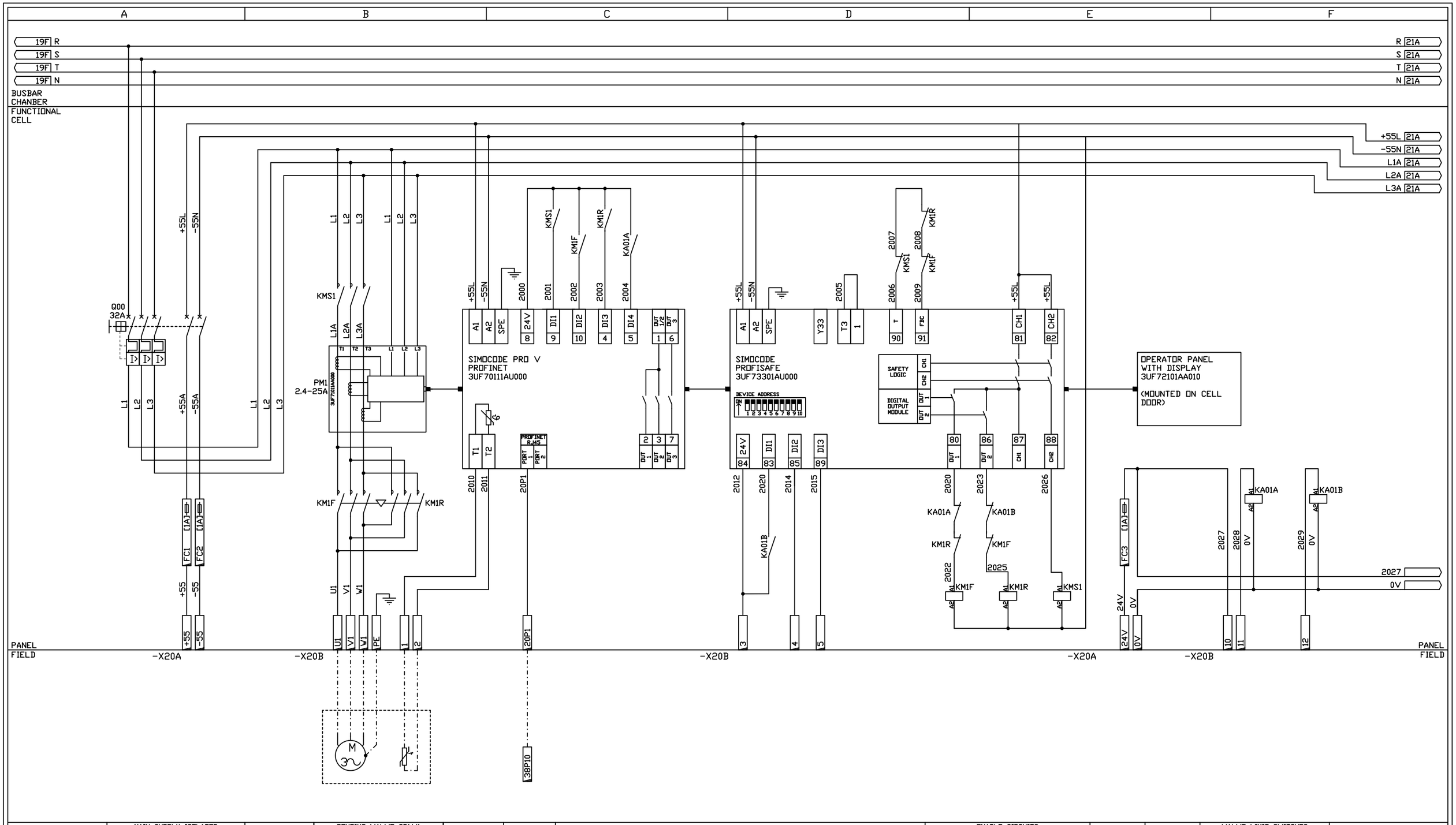

MAIN SUPPLY ISOLATOR		ROUTING VALVE SB1-V1		PROFINET CONNECTION	ENABLE CIRCUITS			24VDC SUPPLY	VALVE LIMIT SWITCHES	
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL A1	VALVE MOTOR 11 KW FLC=xxxA	MOTOR THERMISTOR	RJ45	MOTOR FWD COIL (LEFT)	MOTOR REV COIL (RIGHT)	SAFETY CONTACTOR COIL		LEFT LIMIT SWITCH	RIGHT LIMIT SWITCH

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CELL E1
SURGE BIN 1 VALVE 1

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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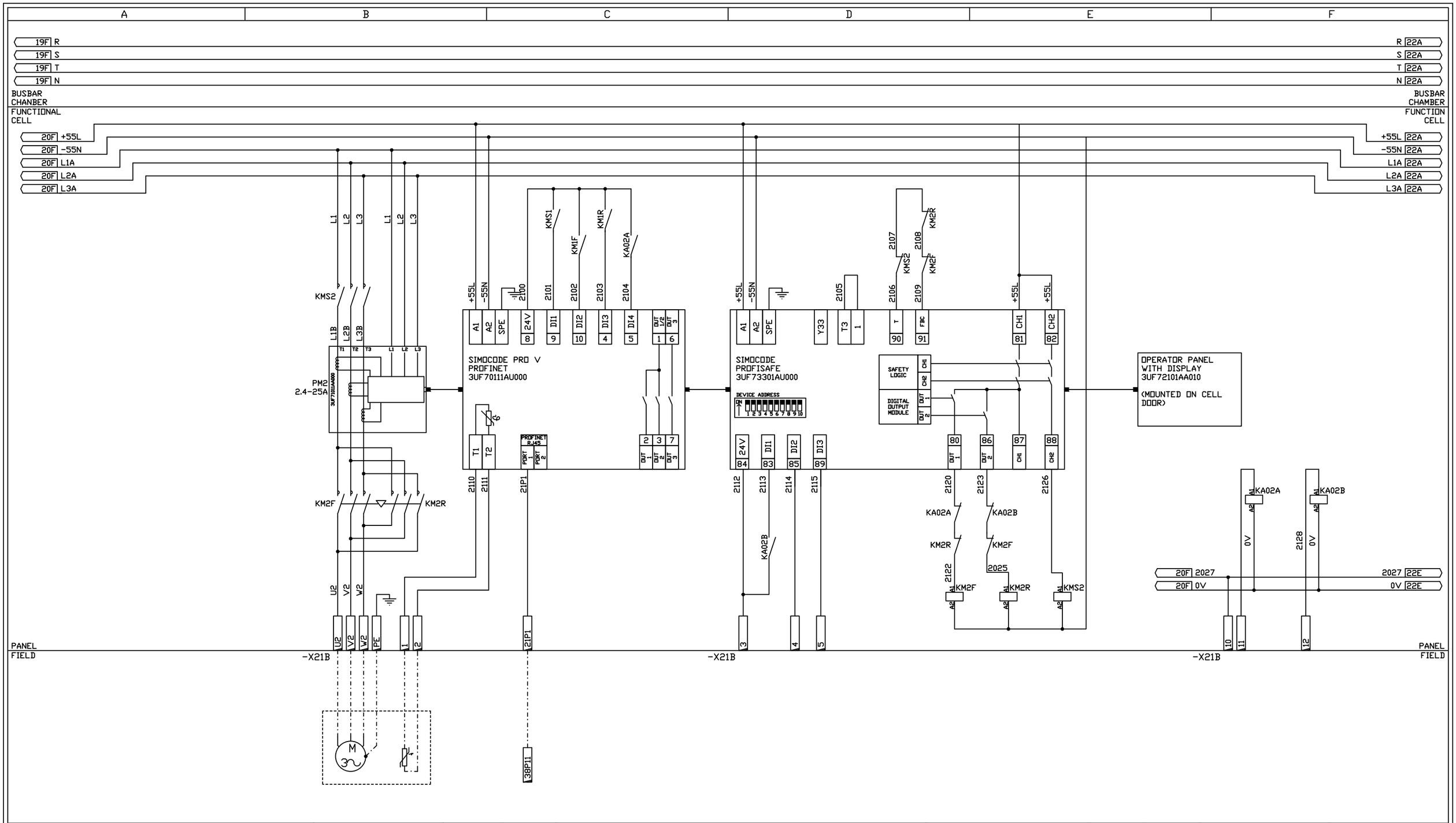
CLIENT	PEEL PORT
INSTALL	RSGT LIVERPOOL
TITLE	MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022
DRG. No.:	284595_0201
DRAWING REVISION :	00
PAGE No.:	20 OF 40



ROUTING VALVE #1			PROFINET CONNECTION		ENABLE CIRCUITS			24VDC SUPPLY		VALVE LIMIT SWITCHES	
VALVE MOTOR 11 KW FLC=xxxA	MOTOR THERMISTOR		RJ45		MOTOR FWD COIL (LEFT)	MOTOR REV COIL (RIGHT)	SAFETY CONTACTOR COIL	FROM CELL B2		LEFT LIMIT SWITCH	RIGHT LIMIT SWITCH

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CELL E1
SURGE BIN 1 VALVE 2

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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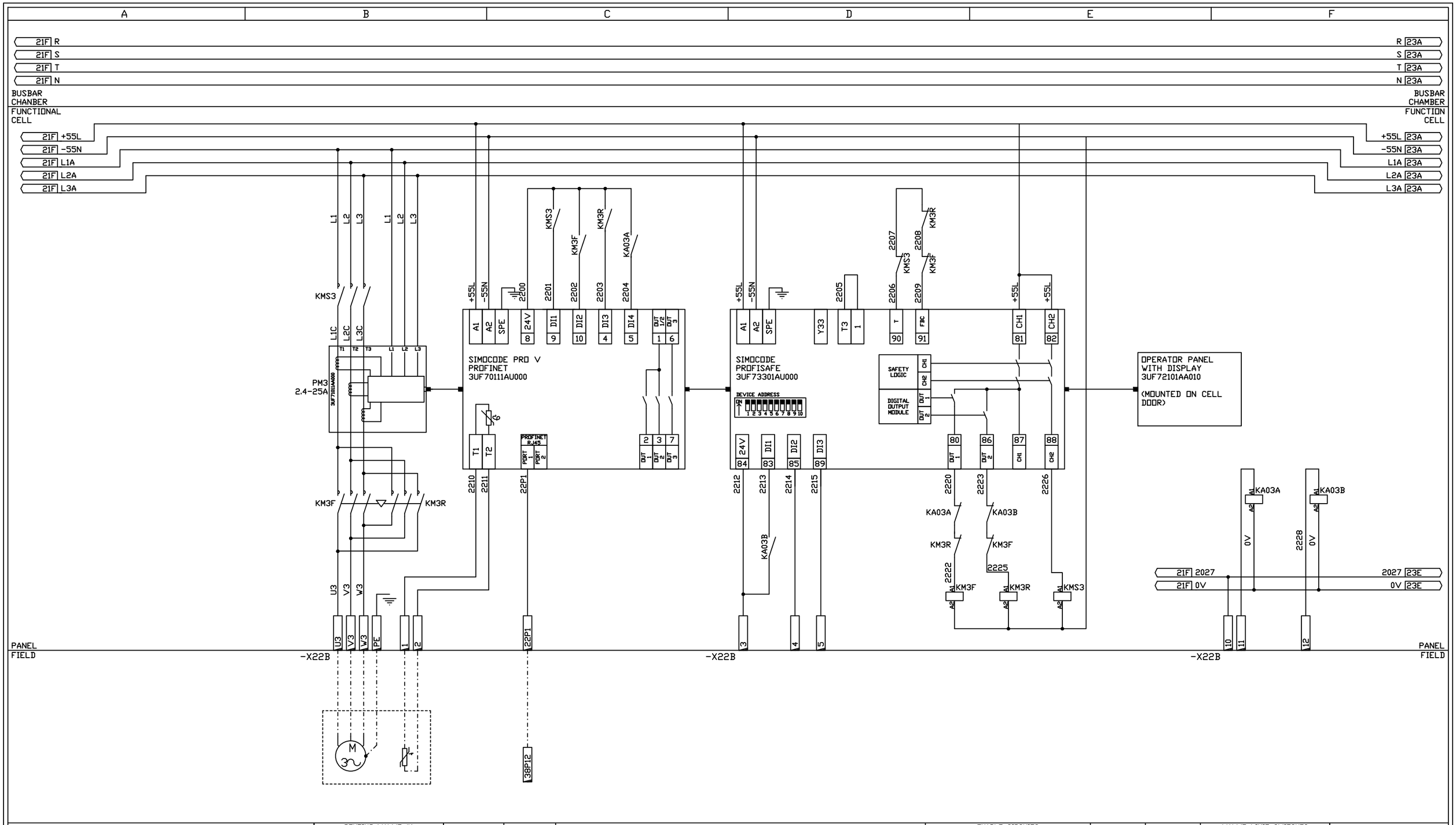
CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 21 OF 40



ROUTING VALVE #1			PROFINET CONNECTION	ENABLE CIRCUITS					VALVE LIMIT SWITCHES	
VALVE MOTOR 11 KW FLC=xxxA	MOTOR THERMISTOR		RJ45	MOTOR FWD COIL (LEFT)	MOTOR REV COIL (RIGHT)	SAFETY CONTACTOR COIL	24VDC SUPPLY		LEFT LIMIT SWITCH	RIGHT LIMIT SWITCH

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CELL E1
BASEMENT BELT 2 VALVE 1

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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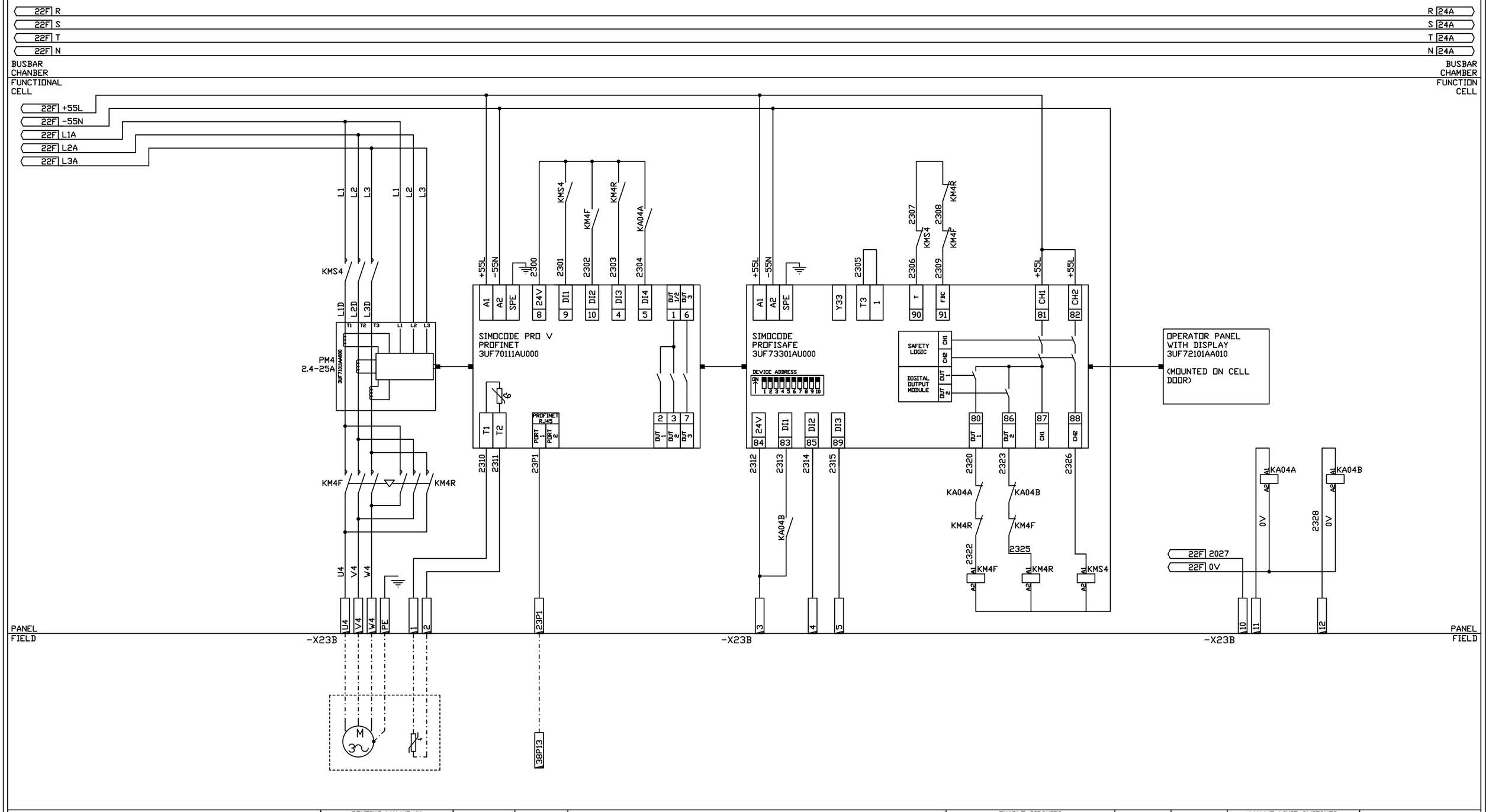
CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 22 OF 40



ROUTING VALVE #1			PROFINET CONNECTION		ENABLE CIRCUITS					VALVE LIMIT SWITCHES	
VALVE MOTOR 11 KW FLC=xxxA	MOTOR THERMISTOR		RJ45		MOTOR FWD COIL (LEFT)	MOTOR REV COIL (RIGHT)	SAFETY CONTACTOR COIL	24VDC SUPPLY		LEFT LIMIT SWITCH	RIGHT LIMIT SWITCH

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REV	DATE	DETAIL
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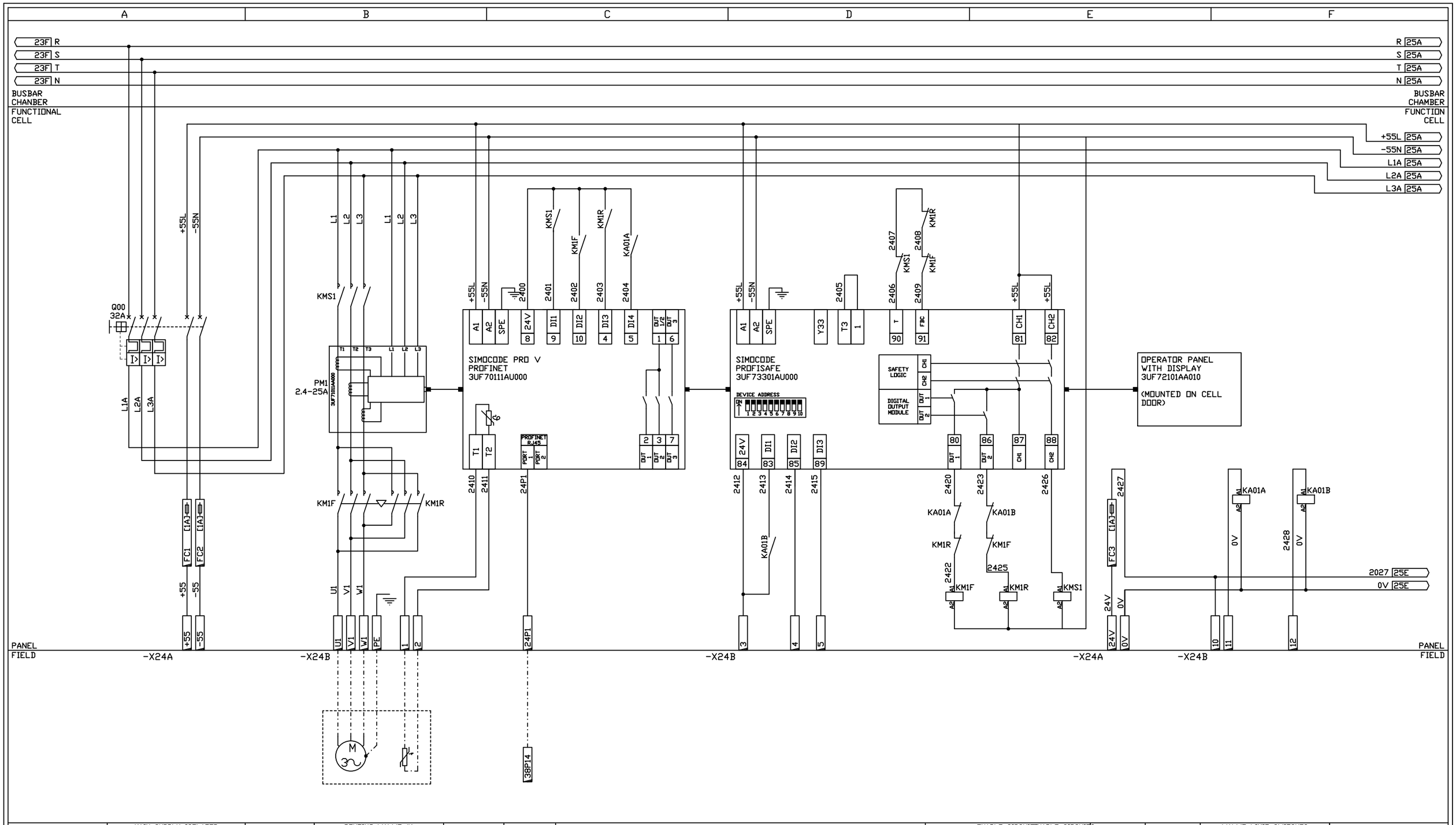
CELL E1
BASEMENT BELT 3 VALVE 1

CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 23 OF 40



MAIN SUPPLY ISOLATOR		ROUTING VALVE #1		PROFINET CONNECTION	ENABLE CIRCUITS				VALVE LIMIT SWITCHES	
3-PHASE SUPPLY FROM BUSBAR	110VAC SUPPLY FROM CELL A1	VALVE MOTOR 11 KW FLC=xxxA	MOTOR THERMISTOR	RJ45	MOTOR FWD COIL (LEFT)	MOTOR REV COIL (RIGHT)	SAFETY CONTACTOR COIL	24VDC SUPPLY	LEFT LIMIT SWITCH	RIGHT LIMIT SWITCH

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CELL E2
MILL BIN 1: VALVE 1

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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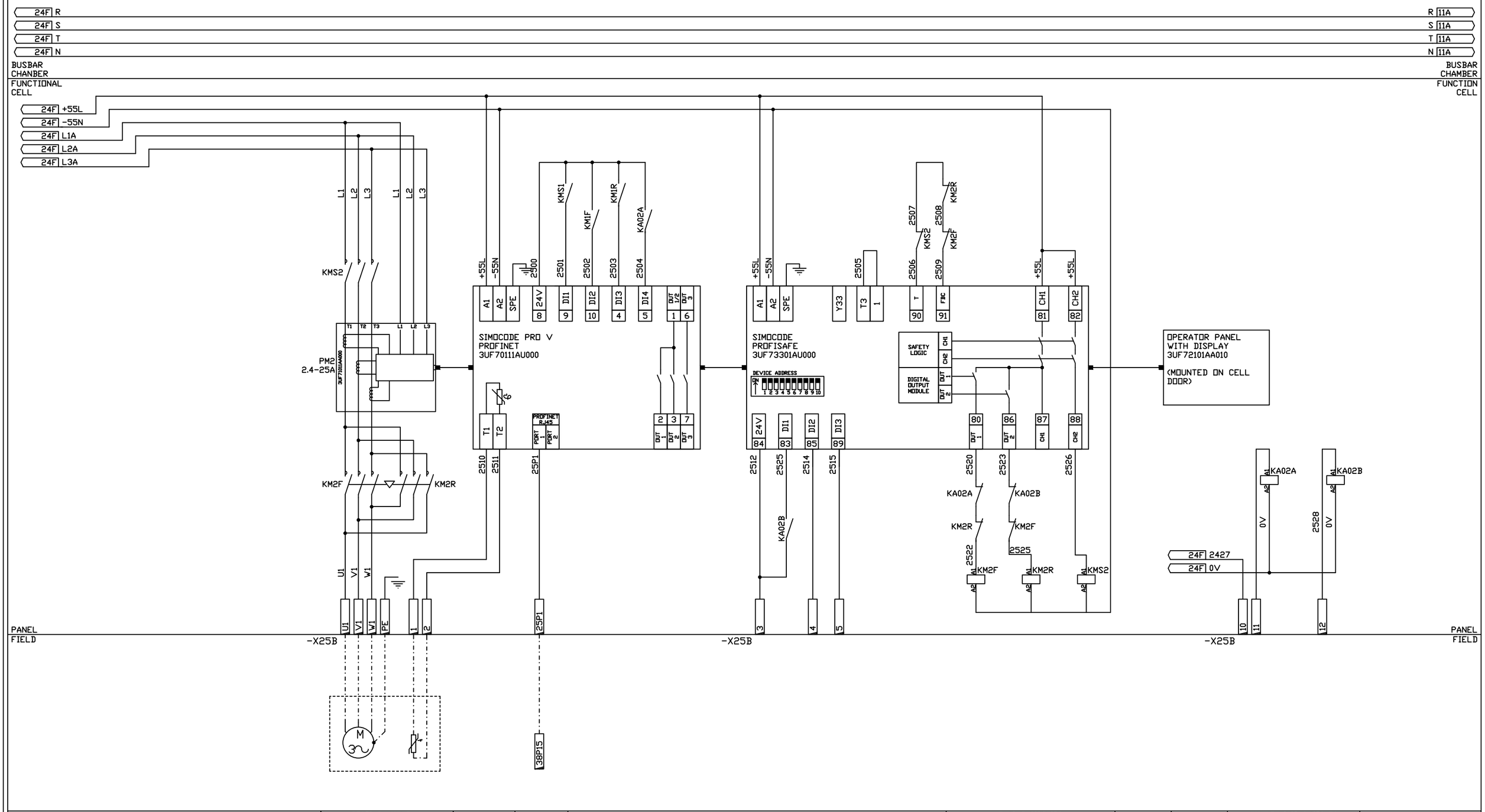
CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 24 OF 40



ROUTING VALVE #1			PROFINET CONNECTION		ENABLE CIRCUITS					VALVE LIMIT SWITCHES	
VALVE MOTOR 11 KW FLC=xxxA	MOTOR THERMISTOR		RJ45		MOTOR FWD COIL (LEFT)	MOTOR REV COIL (RIGHT)	SAFETY CONTACTOR COIL	24VDC SUPPLY		LEFT LIMIT SWITCH	RIGHT LIMIT SWITCH

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CELL E2
MILL BIN 1: VALVE 3

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 25 OF 40

A	B	C	D	E	F

25F	R	R	27A
25F	S	S	27A
25F	T	T	27A
25F	N	N	27A

BUSBAR CHANBER FUNCTIONAL CELL

BUSBAR CHAMBER FUNCTION CELL

CELL E3
SPARE

NO EQUIPMENT

PANEL FIELD

PANEL FIELD

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CELL F4
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 26 OF 40

A	B	C	D	E	F

26F R — R 28A
26F S — S 28A
26F T — T 28A
26F N — N 28A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F1
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F5
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

DRG. No.: 284595_0201

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A	B	C	D	E	F

27F R — R 29A
27F S — S 29A
27F T — T 29A
27F N — N 29A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F2
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F6
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

DRG. No.: 284595_0201

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28F R — R 30A
28F S — S 30A
28F T — T 30A
28F N — N 30A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F3
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F7
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

DRG. No.: 284595_0201

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A	B	C	D	E	F

29F R — R 31A
29F S — S 31A
29F T — T 31A
29F N — N 31A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F4
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F8
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.: 284595_0201	
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 30 OF 40

A	B	C	D	E	F

30F R — R 32A
30F S — S 32A
30F T — T 32A
30F N — N 32A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F5
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

PSU 1 HEALTHY | PSU 2 HEALTHY | 24VDC CONTROL ON

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CELL F5
SPARE

REV	DATE	DETAIL
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

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A	B	C	D	E	F

31F R — R 33A
31F S — S 33A
31F T — T 33A
31F N — N 33A

BUSBAR CHANBER — BUSBAR CHAMBER

FUNCTIONAL CELL — FUNCTION CELL

CELL F6
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F6
SPARE

REV	DATE	DETAIL
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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.: 284595_0201	
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 32 OF 40

A	B	C	D	E	F

32F R — R 34A
32F S — S 34A
32F T — T 34A
32F N — N 34A

BUSBAR CHANBER — BUSBAR CHAMBER
FUNCTIONAL CELL — FUNCTION CELL

CELL F7
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F7
SPARE

REV	DATE	DETAIL
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022

DRG. No.: 284595_0201

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A	B	C	D	E	F

33F R — R 35A
33F S — S 35A
33F T — T 35A
33F N — N 35A

BUSBAR CHANBER — BUSBAR CHAMBER
FUNCTIONAL CELL — FUNCTION CELL

CELL F8
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F8
SPARE

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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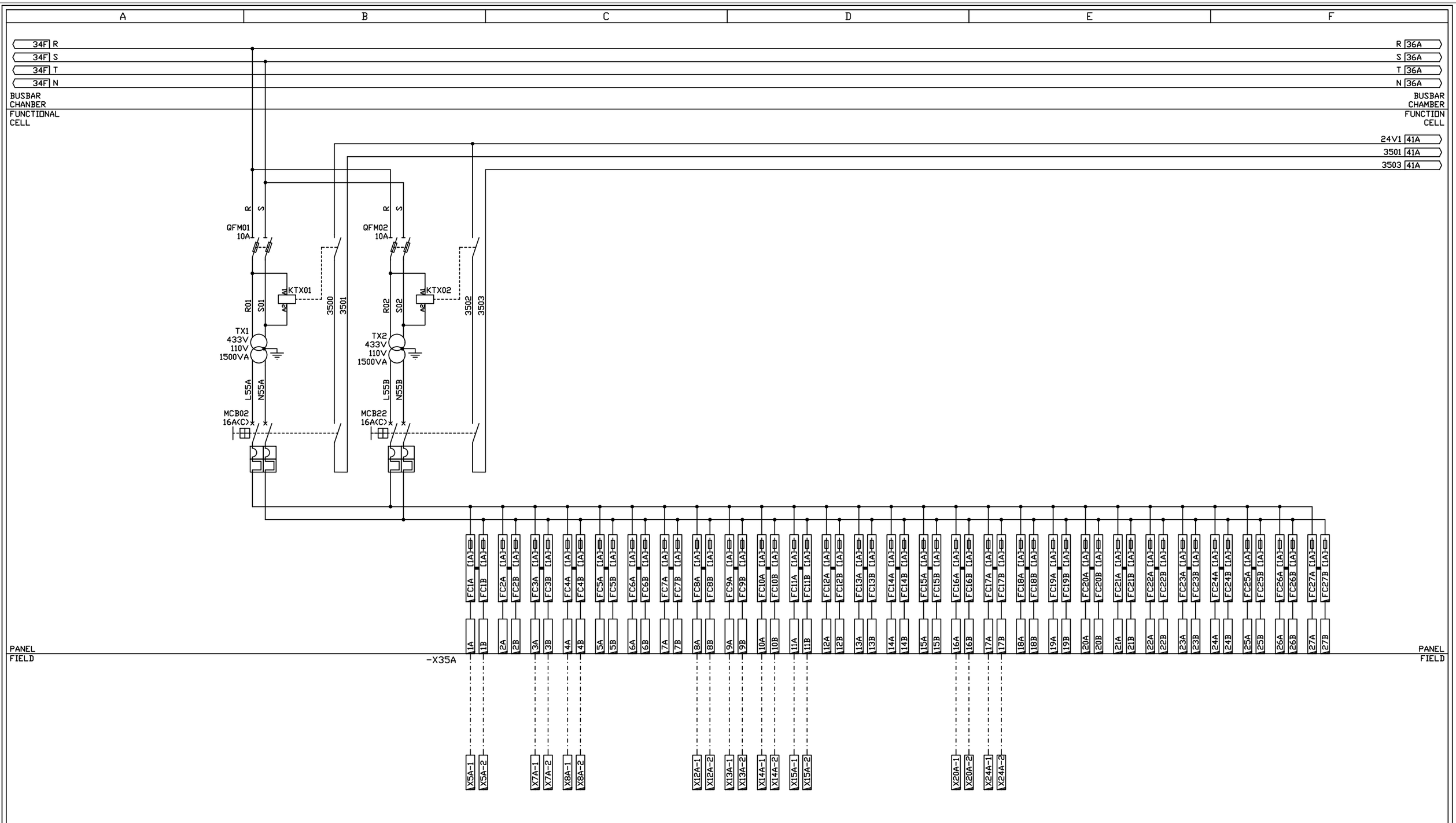
CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.: 284595_0201	
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 34 OF 40



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CELL B2
PLC CONTROL SECTION - 110VAC DISTRIBUTION

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT	PEEL PORT
INSTALL	RSGT LIVERPOOL
TITLE	MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022
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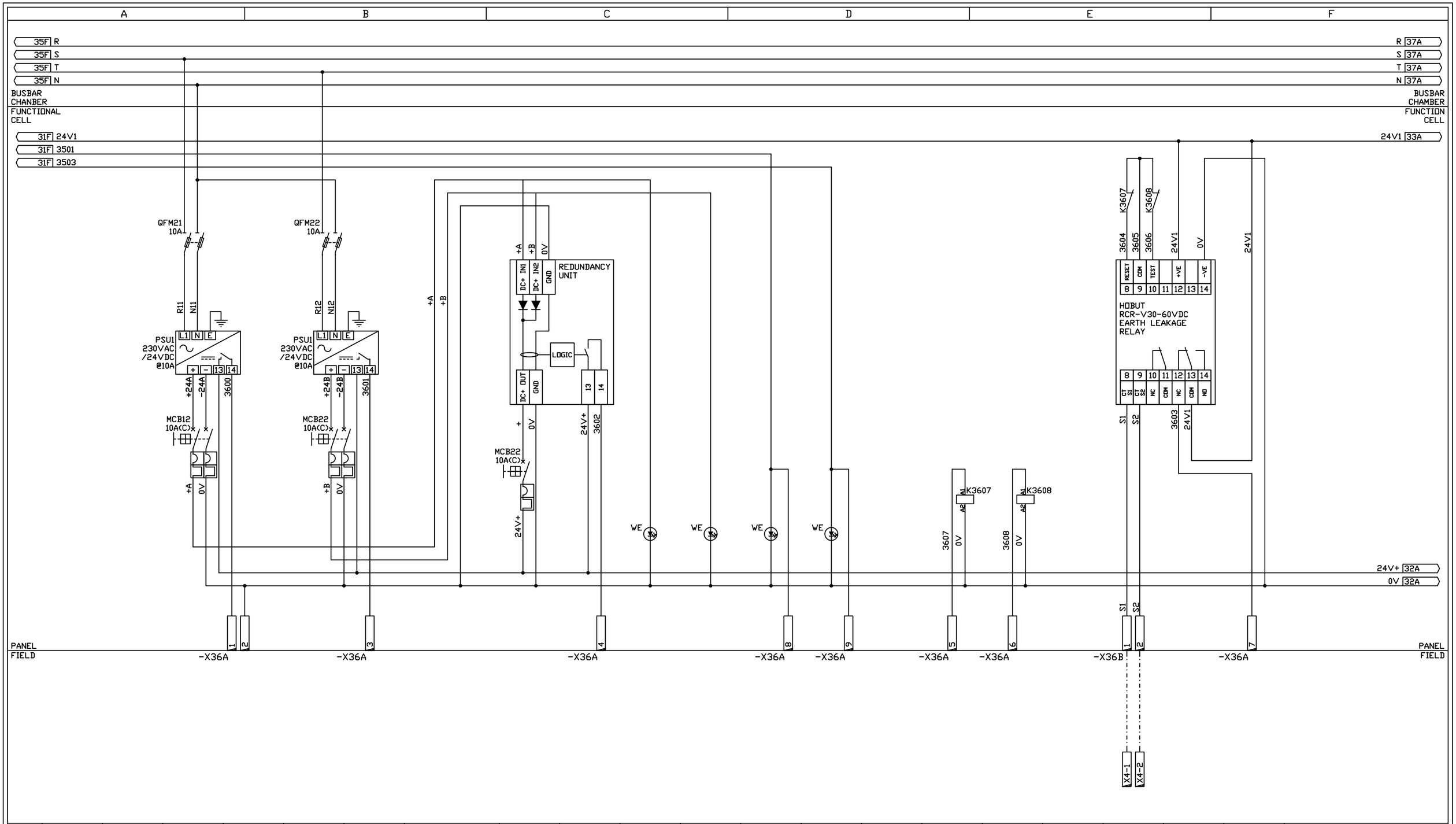

	POWER SUPPLY #1 PRIMARY & SECONDARY MCB'S	POWER SUPPLY #1 PRIMARY & SECONDARY MCB'S	POWER SUPPLY #1 PRIMARY & SECONDARY MCB'S	POWER SUPPLY #1 STATUS TO PLC PANEL	POWER SUPPLY #2 PRIMARY & SECONDARY MCB'S	POWER SUPPLY #2 STATUS TO PLC PANEL		24VDC REDUNDANCY UNIT OUTPUT MCB	24VDC REDUNDANCY UNIT STATUS TO PLC PANEL	POWER SUPPLY #1 HEALTHY LED (WHITE)	POWER SUPPLY #2 HEALTHY LED (WHITE)	110VAC TX1 POWER HEALTHY LED (GREEN)	110VAC TX2 POWER HEALTHY LED (GREEN)		FAULT RESET RELAY RESET COMMAND	EARTH LEAKAGE MONITORING RELAY TEST COMMAND		EARTH LEAKAGE MONITORING CT CELL A1		EARTH LEAKAGE MONITORING RELAY FAULT TO PLC PANEL	

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CELL B2
PLC CONTROL SECTION - 24VDC POWER SUPPLIES

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT	PEEL PORT
INSTALL	RSGT LIVERPOOL
TITLE	MCC2A WIRING SCHEMATICS

ENGINEERED	B.DUFFY
DRAWN	D.BALDOCK
CHECKED	M.WRIGHT
DATE	10/10/2022
DRG. No.:	284595_0201
DRAWING REVISION :	00
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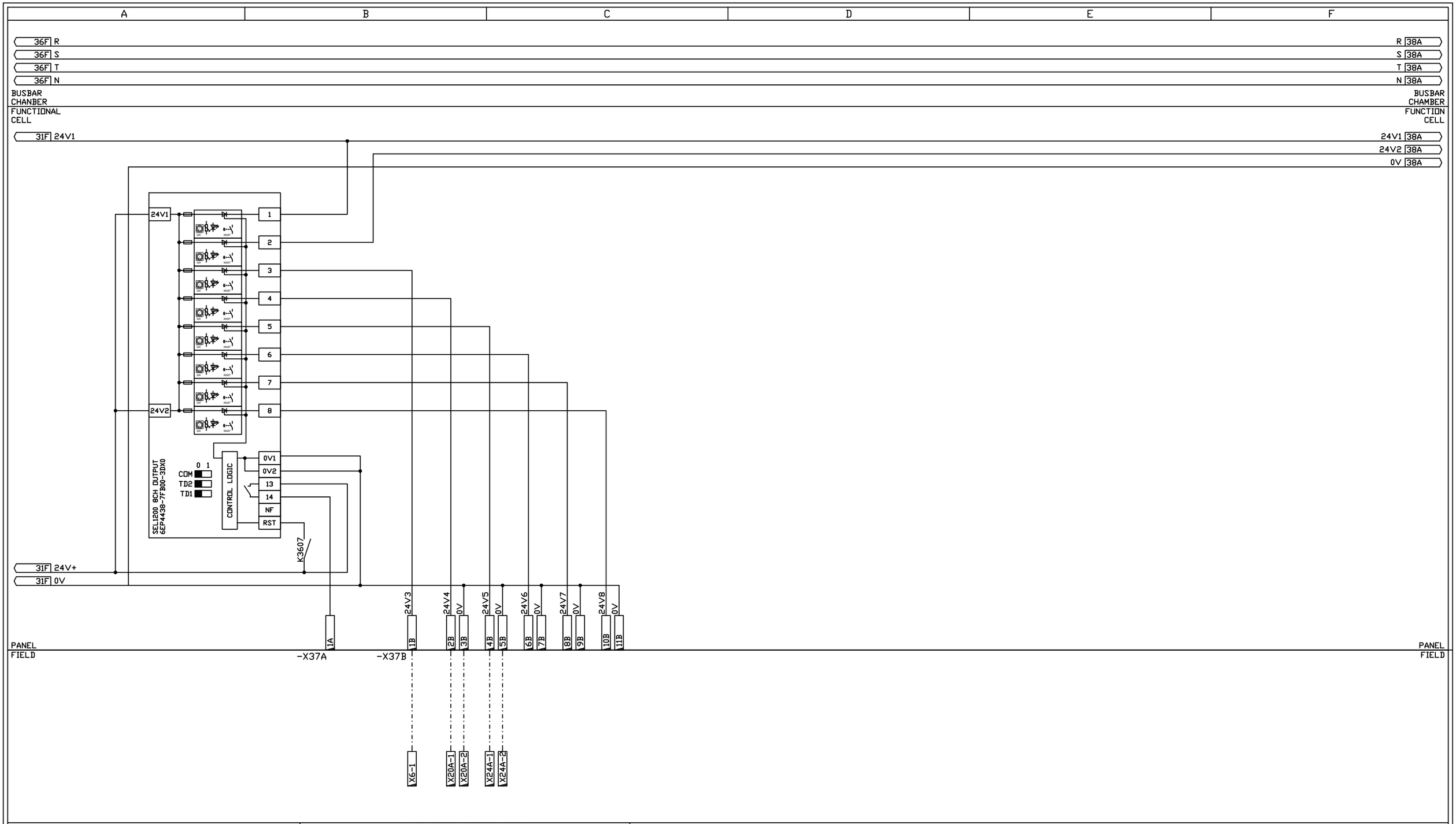

24VDC CONTROL VOLTAGE SUPPLY							
DISTRIBUTION FAULT STATUS TO PLC PANEL		24VDC TO CELL A3	24VDC TO CELL E1	24VDC TO CELL E2	SPARE	SPARE	SPARE

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CELL B2
PLC CONTROL SECTION - 24VDC POWER DISTRIBUTION

REV	DATE	DETAIL
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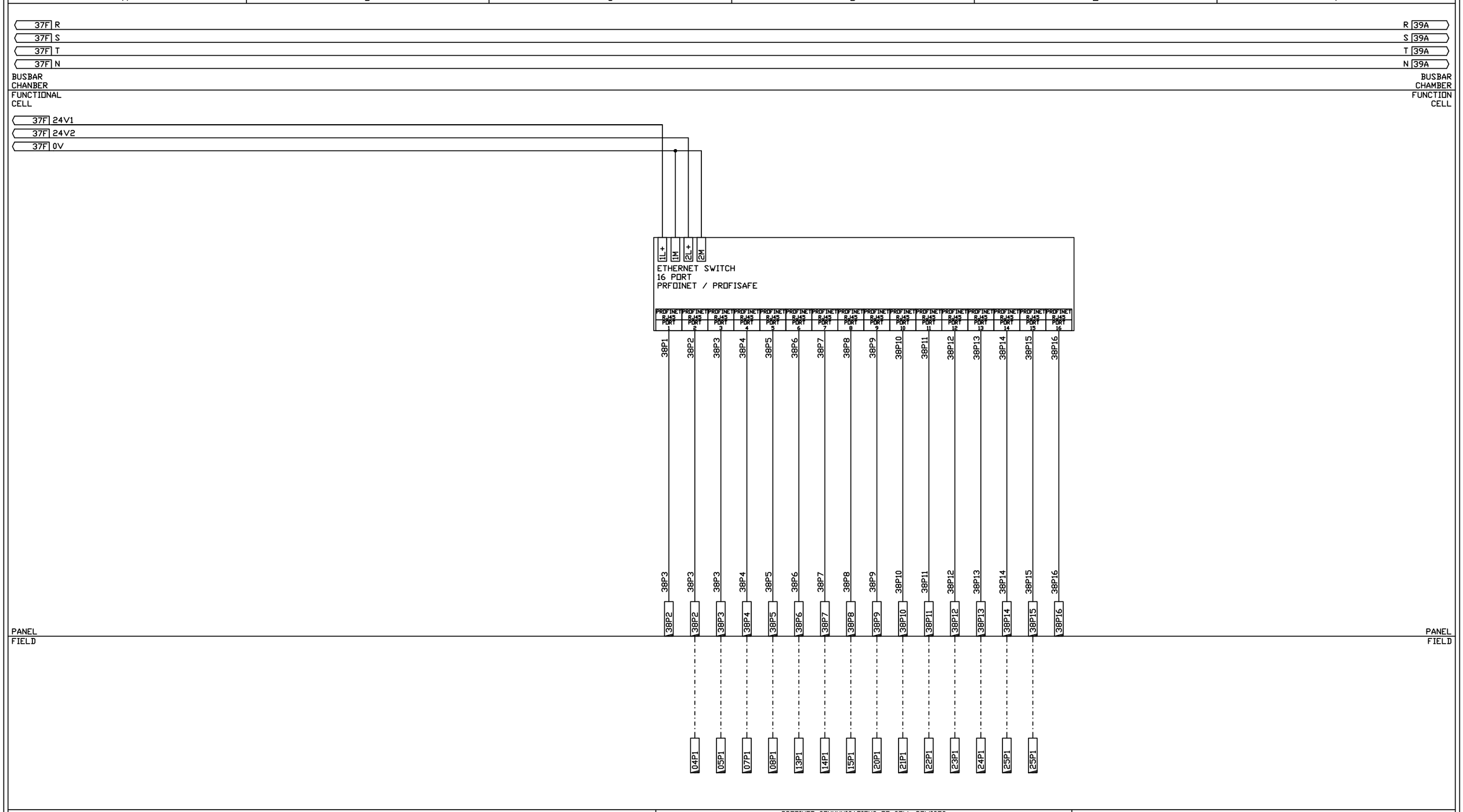
CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 37 OF 40



PROFINET COMMUNICATIONS TO CELL DEVICES

FROM PLC PANEL	POWER MONITOR CELL A1	SOFTSTART MC1 CELL A2	SOFTSTART BB1 CELL B1	SOFTSTART BB2 CELL C1	STARTER LVPMF CELL D1	STARTER LVE CELL D2	STARTER LVCC1 CELL D3	STARTER LVCC2 CELL D4	STARTER SBIV1 CELL E1	STARTER SBIV2 CELL E1	STARTER BB2V1 CELL E1	STARTER BB3V1 CELL E1	STARTER MBIV1 CELL E2	STARTER MBIV3 CELL E2	SPARE

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REV	DATE	DETAIL
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CELL B2
PLC CONTROL SECTION - DIGITAL INPUTS SLOT 2

CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 38 OF 40

A	B	C	D	E	F

38F R — R 40A
38F S — S 40A
38F T — T 40A
38F N — N 40A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

BLANK PAGE

PANEL FIELD — PANEL FIELD

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CELL B2
PLC CONTROL SECTION - DIGITAL OUTPUTS SLOT 3

REV	DATE	DETAIL
00	13/02/24	AS FITTED
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CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 39 OF 40

A	B	C	D	E	F

39F R — R
39F S — S
39F T — T
39F N — N

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

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PANEL FIELD — PANEL FIELD

HF Controls Ltd
100 Albert Drive, Glasgow, G41 2SJ
Call 0800 783 9480
www.hf-group.co.uk
Glasgow Edinburgh Manchester Belfast Aberdeen

CELL B2
PLC CONTROL SECTION - DIGITAL OUTPUTS SLOT 3

REV	DATE	DETAIL
00	13/02/24	AS FITTED
01		
02		
03		
04		
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07		

CLIENT	PEEL PORT	ENGINEERED	B.DUFFY
		DRAWN	D.BALDOCK
		CHECKED	M.WRIGHT
		DATE	10/10/2022
INSTALL	RSGT LIVERPOOL	DRG. No.:	284595_0201
TITLE	MCC2A WIRING SCHEMATICS	DRAWING REVISION : 00	PAGE No.: 40 OF 40