



415V AC MAIN BOARD

End Client: M/s. Transmission Corporation of Andhra Pradesh Limited
Project name: 400/200kV SUB STATION NARNOOR
Contractor: M/s. PVR Constructions
Customer: M/s. CMRM INFRAA ENGINEERING PVT. LTD.

Manufacturer: M/s. Green Secure Energy Systems
P.O. No: CMRM/GSS/APT/ACDB & DCDB/2023-24/82 Dated. 02.09.2023
Job No: GSS-23-24-024
Drawing No.: GSS-23-24-024ACMB
Quantity: 1 No.

Chief Engineer
Projects

Drawn By
Ramesh

Checked By
Bhaskar

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Total no. of pages
66

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
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DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
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GSS-23-24-024ACMB	REV.	R6	

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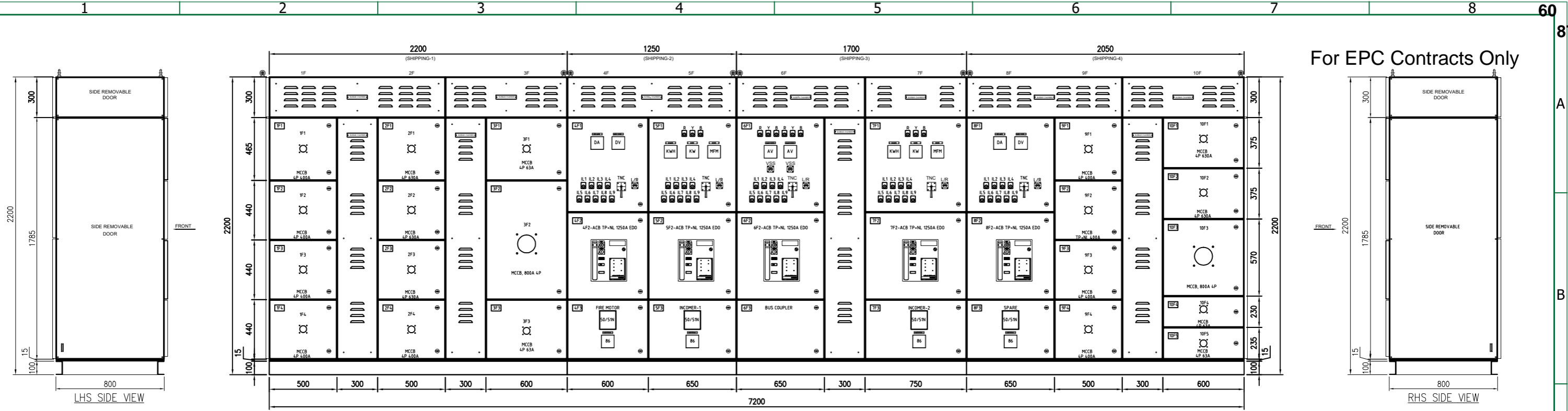
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LHS SIDE VIEW

RHS SIDE VIEW

FRONT VIEW

FOUNDATION VIEW

FRONT |

NOTE :
ALL ACB FEEDER CABLE GLAND PLATE IS ALUMINIUM

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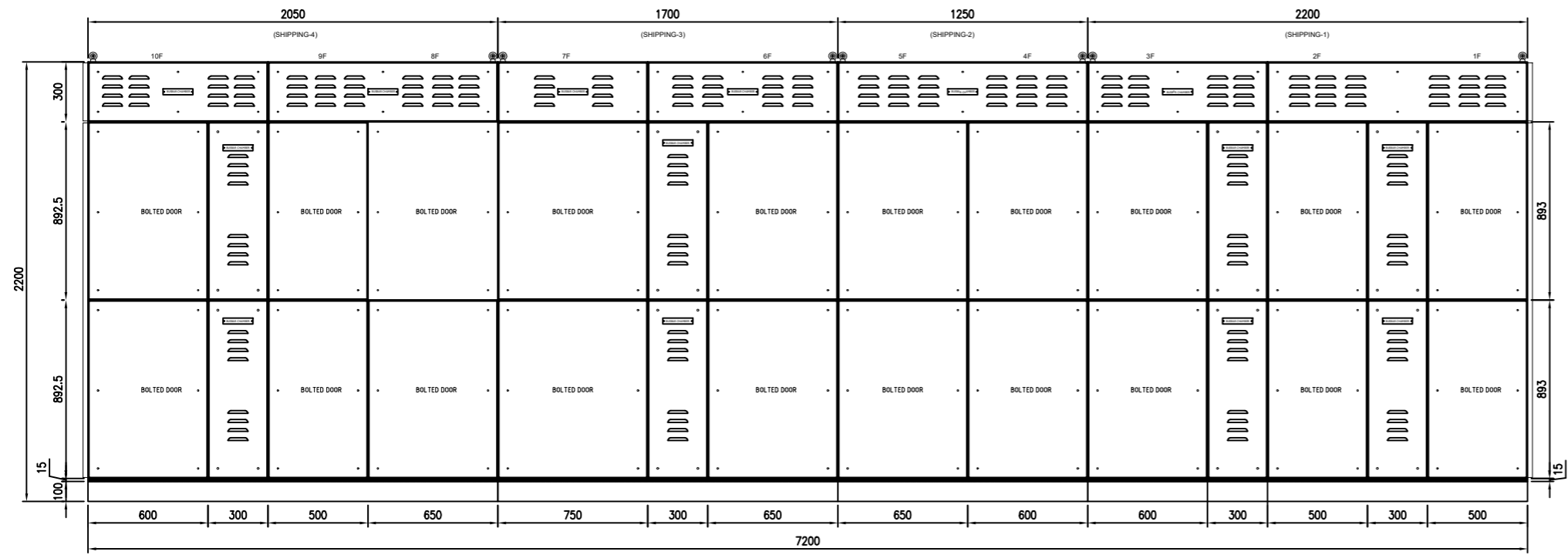
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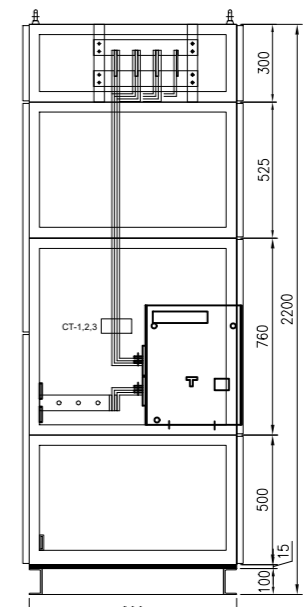


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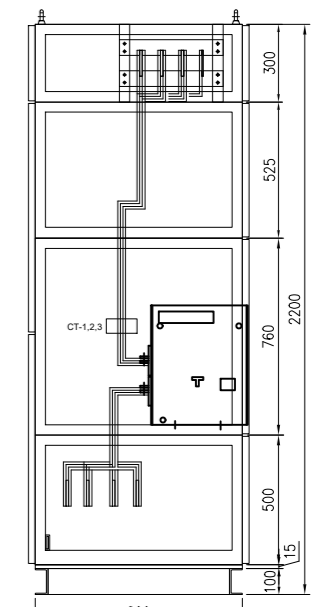
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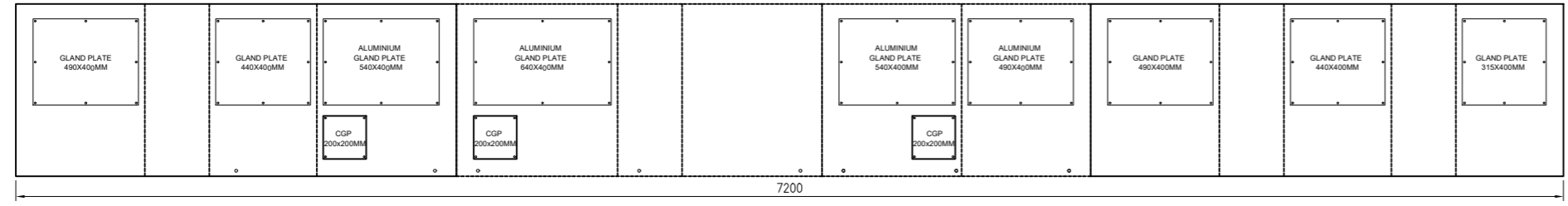
REAR VIEW



INCOMER-1,2 & O/G
SECTIONAL SIDE VIEW



BUS COUPLER
SECTIONAL SIDE VIEW



REAR VIEW

FRONT

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GENERAL NOTES

CONSTRUCTION DETAILS		
1.	MOUNTING	FLOOR MOUNTED
2.	DEGREE OF PROTECTION	IP-42
3.	OPERATION	FRONT & REAR
4.	INSTALLATION	INDOOR
5.	FABRICATION MATERIAL	CRCA
6.	BASE FRAME	100mm
7.	MINIMUM OPERATING HEIGHT	300mm
8.	MAXIMUM OPERATING HEIGHT	1800mm
9.	SEALING ARRANGEMENT	CROSS LINKED POLY ETHYLENE
10.	PANEL DIMENSION	2200(H) x 7200(W) x 800(D)
SHEET THICKNESS		
1.	EQUIPMENT MOUNTING PLATE	1.6mm CRCA
2.	FRONT & REAR HINGED DOOR	1.6mm CRCA
3.	SIDE BOLTED DOOR	1.6mm CRCA
4.	FRAME, LOAD BEARING MEMBER	2mm CRCA
5.	PARTITIONS	1.6mm CRCA
REMOVABLE GLAND PLATE		
1.	POWER CABLES	3mm CRCA
2.	CONTROL CABLES	3mm CRCA
3.	CONTROL CABLES ENTRY	FRONT - BOTTOM
4.	POWER CABLES ENTRY	REAR - BOTTOM
PAINTING		
1.	PAINT THICKNESS	80-120 MICRONS
2.	PAINT TYPE	EPOXY POWDER COATED
3.	PAINT SHADES FOR DOORS/COVERS/ SIDES/FRAMES/DUMMY TOP & BOTTOM	631 OF IS-5
4.	FINISH	STRUCTURE
5.	PAINT SHADES FOR BASE FRAME	RAL 9005
ELECTRICAL CHARACTERISTICS		
1.	NOMINAL POWER VOLTAGE	415V
2.	SYSTEM	3 PHASE 4 WIRE
3.	RATED FREQUENCY	50 Hz
4.	STC RATING	50ka/1 SEC
5.	RATED CURRENT	1250A
6.	MIN. PHASE-PHASE CLEARANCE	30MM
7.	MIN. PHASE-EARTH CLEARANCE	30MM
8.	CONTROL POWER SUPPLY	220V DC/230V AC
9.	REF. STANDARD	IS-8623. PART-1

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GENERAL NOTES

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EARTHING, LABELLING, LOCKING ARRANGEMENT, LUGS & BUS BAR		
1.	BUSBAR MATERIALS	ALUMINIUM BUSBAR WITH HT SLEEVE AND PHASE IDENTIFICATION AT END
2.	MAIN BUS BAR SIZE	2Rx75x10mm/PHASE 1Rx75x10mm/NEUTRAL
3.	EARTH BUS BAR	25x6mm, TINNED COPPER
4.	LABELLING	ANODISED ALUMINIUM STRIPS AL/EQ NAME PLATE WITH "WHITE LETTER" ON "BLACK BACKGROUND" FOR EACH FEEDER AND PANEL
5.	LOCKING ARRANGEMENT	CAM LOCK-KEY OPERATED
6.	LUGS	INSULATED LUGS

TABLE FOR CONTROL CABLE SIZING			
MAKE: LAPP/FINOLEX/RR CABLE/POLYCAB			
TYPE: PVC MULTI STRAND FLEXIBLE COPPER CABLE, 1100V GRADE, FRLS			
SL. No.	DESCRIPTION	SIZE OF WIRE (SQ.MM)	COLOUR
1.	CT CIRCUIT	2.5 Sq.mm	R PHASE - RED Y PHASE - YELLOW B PHASE - BLUE NEUTRAL - BLACK
2.	220V DC DISTRIBUTION CIRCUIT	1.5 Sq.mm	POSITIVE - RED NEGATIVE - BROWN
3.	230/240V AC DISTRIBUTION CIRCUIT	1.5 Sq.mm	PHASE - VIOLET NEUTRAL - BLACK
4.	POTENTIAL FREE CONTACT	2.5 Sq.mm	GREY
5.	ELECTRICAL DOOR EARTH	4 Sq.mm	YELLOW-GREEN

INSPECTION & TEST	
1.	VISUAL INSPECTION
2.	INSULATION RESISTANCE MEASUREMENT
3.	DIELECTRIC STRENGTH TEST
4.	FUNCTION TEST

LANGUAGES	ENGLISH
PACKING	BUBBLE SHEET WRAPPING

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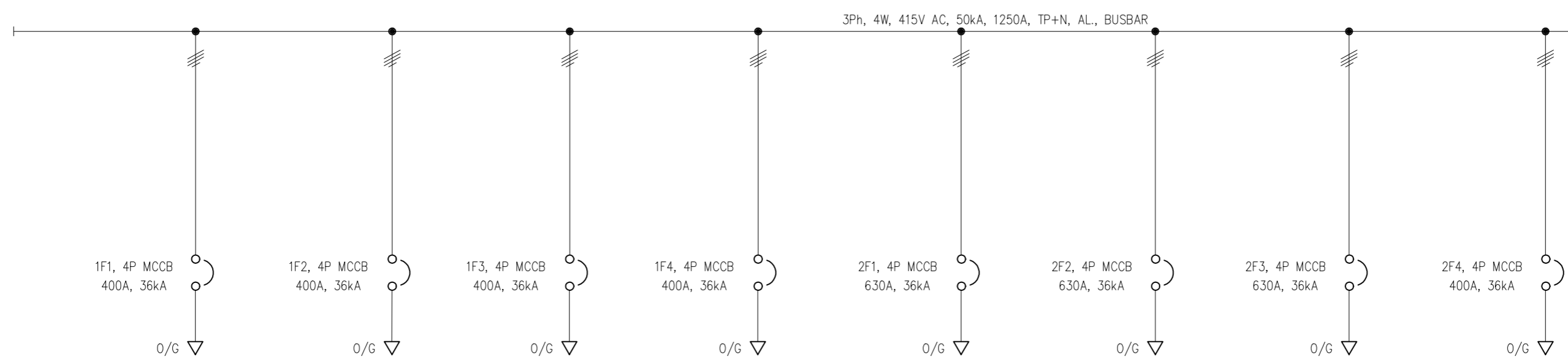
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415V AC MAIN BOARD

FEEDER LOCATION	5F
FEEDER DESCRIPTION	INCOMER-1
FEEDER RATING/ TYPE	1250A/TP ACB
INTERNAL BUSBAR SIZE	2RX75x10MM AL. BUSBAR

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FEEDER LOCATION	1F1(AIR CONDITIONING BOARD)	1F2(OIL FILTRATION UNIT)	1F3(SPARE)	1F4(SPARE)	2F1(415V AC LIGHTING BOARD-I)	2F2(SPARE)	2F3(SPARE)	2F4(COLONY LIGHTNING)
FEEDER DESCRIPTION	1F1	1F2	1F3-OUTGOING	1F4-OUTGOING	2F1-OUTGOING	2F2-OUTGOING	2F3-OUTGOING	2F4-OUTGOING
FEEDER RATING/ TYPE	400A/4P MCCB	400A/4P MCCB	400A/4P MCCB	400A/4P MCCB	630A/4P MCCB	630A/4P MCCB	630A/4P MCCB	400A/4P MCCB
INTERNAL BUSBAR SIZE	2Rx25x10MM BUSBAR	2Rx25x10MM BUSBAR	2Rx25x10MM BUSBAR	2Rx25x10MM BUSBAR	2Rx40x10MM BUSBAR	2Rx40x10MM BUSBAR	2Rx40x10MM BUSBAR	2Rx25x10MM BUSBAR

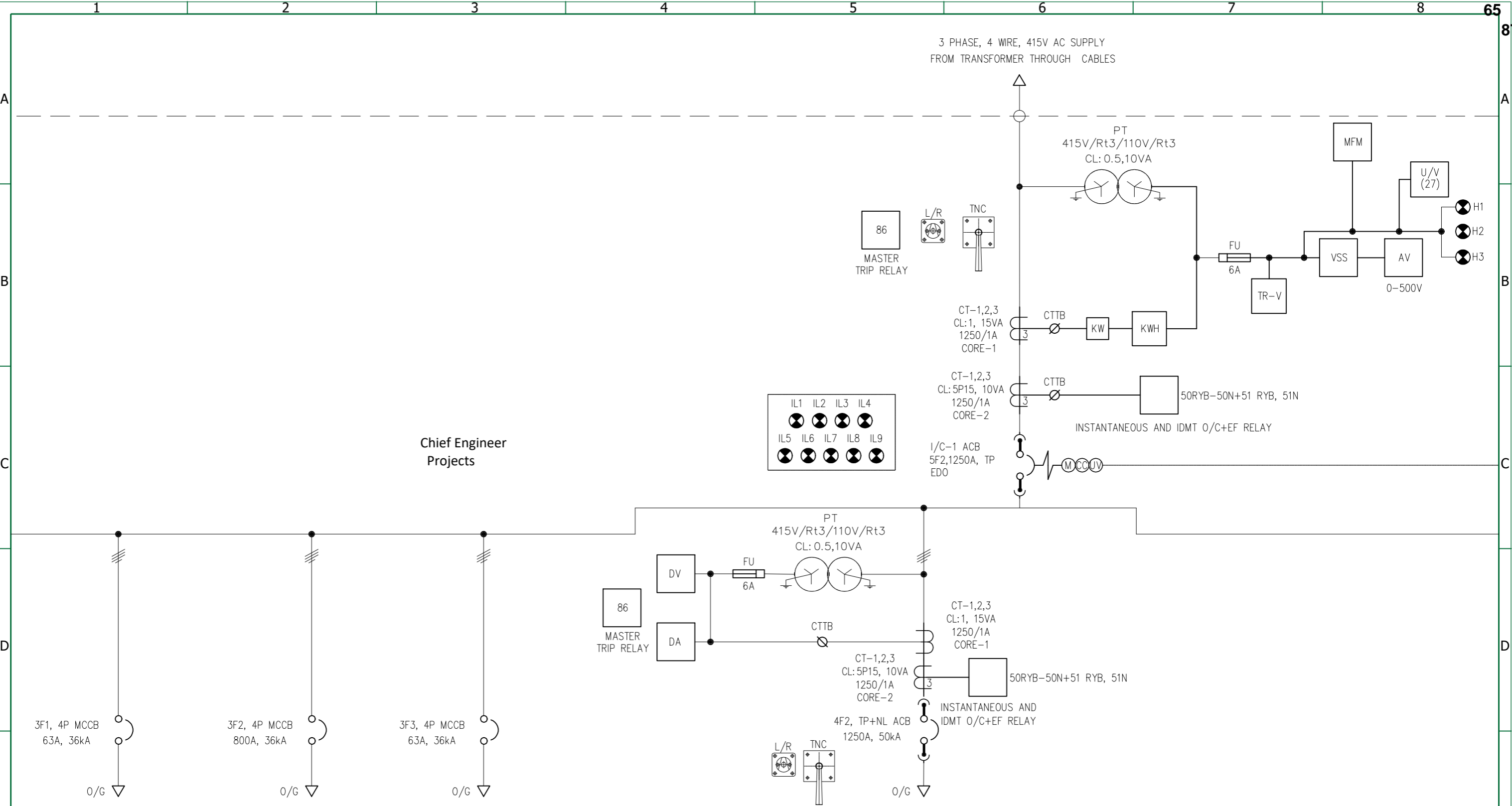
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3F1 (SPARE)	3F2 (415V AC DISTRIBUTION BOARD)	3F3 (SPARE)	4F2 (FIRE WATER PUMP MOTOR)
3F1-OUTGOING	3F2-OUTGOING	3F3-OUTGOING	4F2-OUTGOING
63A/4P MCCB	800A/4P MCCB	63A/4P MCCB	1250A/4P ACB
16 Sq.mm COPPER CABLE	2Rx50x10MM BUSBAR	16 Sq.mm COPPER CABLE	2Rx75x10MM BUSBAR

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3 PHASE, 4 WIRE, 415V AC SUPPLY
FROM TRANSFORMER THROUGH CABLES

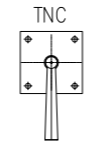
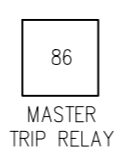
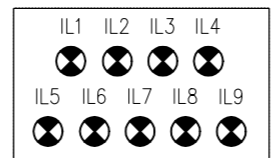
FEEDER LOCATION	6F
FEEDER DESCRIPTION	BUS COUPLER
FEEDER RATING/ TYPE	1250A/TP ACB
INTERNAL BUSBAR SIZE	2RX75x10MM BUSBAR

NOTE: ELECTRICAL INTERLOCK PROVIDED BETWEEN I/C-1,I/C-2 & B/C

ELECTRICAL INTERLOCK

BUS COUPLER ACB
Q3.1250A, TP+NL
EDO

3Ph, 4W, 415V AC, 50kA, 1250A, TP+N, AL., BUSBAR



CT-1,2,3
CL: 1, 15VA
1250/1A
CORE-1

CT-1,2,3
CL: 5P15, 10VA
1250/1A
CORE-2

I/C-2 ACB
Q2.1250A, TP
EDO

PT
415V/Rt3/110V/Rt3
CL: 0.5,10VA

FU
6A

TR-V

VSS

AV
0-500V

MFM

U/V
(27)

H1

H2

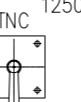
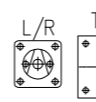
H3

CT1,2,3
CL: 1, 15VA
1250/1A
CORE-1

CT-1,2,3
CL: 5P15, 10VA
1250/1A
CORE-2

8F2, TP ACB
1250A, 50kA

50RYB-50N+51 RYB, 51N
INSTANTANEOUS AND
IDMT O/C+EF RELAY



O/G

PT
415V/Rt3/110V/Rt3
CL: 0.5,10VA

DV

DA

86
MASTER
TRIP RELAY

9F1,4P MCCB
400A, 36kA

9F2, 4P MCCB
400A, 36kA

O/G

O/G

FEEDER LOCATION	7F
FEEDER DESCRIPTION	INCOMER-2
FEEDER RATING/ TYPE	1250A/TP ACB
INTERNAL BUSBAR SIZE	2RX75x10MM BUSBAR

FEEDER LOCATION	8F2 (SPARE)	9F1(COLONY LIGHTING)	9F2(AIR CONDITIONING BOARD)
FEEDER DESCRIPTION	8F2-OUTGOING	9F1-OUTGOING	9F2-OUTGOING
FEEDER RATING/TYPE	1250A/4P ACB	400A/4P MCCB	400A/4P MCCB
INTERNAL BUSBAR SIZE	2Rx75x10MM BUSBAR	2Rx25x10MM BUSBAR	2Rx25x10MM BUSBAR

Chief Engineer
Projects

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R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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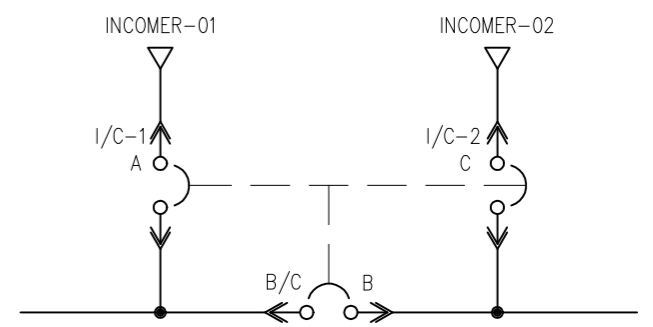
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CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
DRAWING No.		09 OF 66	
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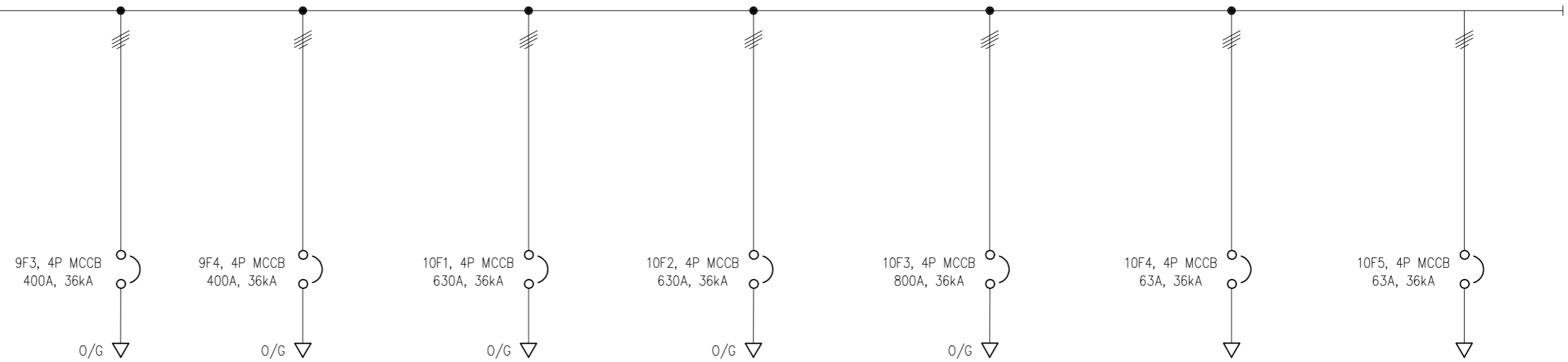
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ACB CONDITION	A	B	C
	INCOMER-1	BUSCOUPLER	INCOMER-2
CONDITION-1	ON	ON	OFF
CONDITION-2	OFF	ON	ON
CONDITION-3	ON	OFF	ON

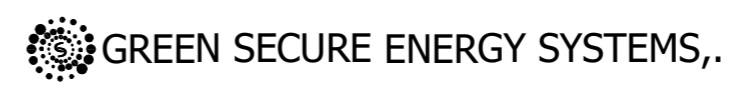
Chief Engineer
Projects



FEEDER LOCATION	9F3(FIRE WATER PUMP MOTOR)	9F4(SPARE)	10F1(415V AC LIGHTING BOARD-II)	10F2(SPARE)	10F3(415V AC DISTRIBUTION BOARD-II)	10F4(SPARE)	10F5(SPARE)
FEEDER DESCRIPTION	9F3-OUTGOING	9F4-OUTGOING	10F1-OUTGOING	10F2-OUTGOING	10F3-OUTGOING	10F4-OUTGOING	10F5-OUTGOING
FEEDER RATING/TYPE	400A/4P MCCB	400A/4P MCCB	630A/4P MCCB	630A/4P MCCB	800A/4P MCCB	63A/4P MCCB	63A/4P MCCB
INTERNAL BUSBAR SIZE	2Rx25x10MM BUSBAR	2Rx25x10MM BUSBAR	2Rx40x10MM BUSBAR	2Rx40x10MM BUSBAR	2Rx50x10MM BUSBAR	16 Sq.mm COPPER CABLE	16 Sq.mm COPPER CABLE

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R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC








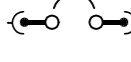


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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA	
	PAGE TYPE	SINGLE LINE DIAGRAM (4/4)			CHD	BB	DATE	14.09.2023
					APPD	JR	SHEET NO.	
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SYMBOLS

SYMBOLS	DESCRIPTION
	MINIATURE CIRCUIT BREAKER
	ANALOG VOLTMETER
	ANALOG AMMETER
	MULTI-FUNCTION METER
	INDICATION LAMP
	TERMINAL BLOCK
	CURRENT TRANSFORMER
	AIR CIRCUIT BREAKER
	TRIP/NEUTRAL/CLOSE SWITCH
	MOULDED CASE CIRCUIT BREAKER

LEGENDS

SYMBOLS	DESCRIPTION
H1	R-PHASE INDICATION LAMP
H2	Y-PHASE INDICATION LAMP
H3	B-PHASE INDICATION LAMP
MCB	MINIATURE CIRCUIT BREAKER
Q	MCCB/MCB/ACB
X	TERMINAL BLOCK
F	CONTROL FUSE
S	SWITCH
SW	SWITCH DISCONNECTOR
TH	THERMOSTAT
SH	SPACE HEATER
H	INDICATION LAMP
27	UNDER VOLTAGE RELAY
59	OVER VOLTAGE RELAY
96	DC EARTH FAULT RELAY
NL	NEUTRAL LINK

Chief Engineer
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TITLE

415V AC MAIN BOARD

PAGE TYPE

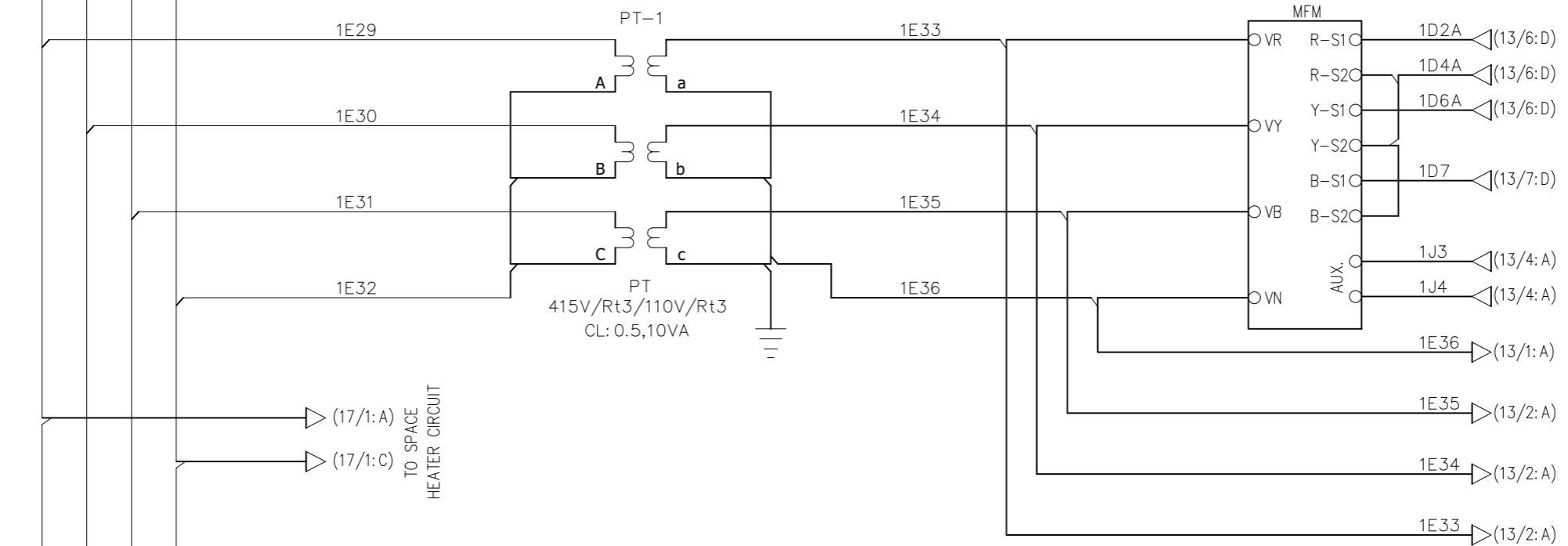
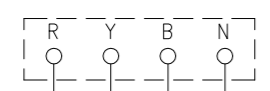
SYMBOLS & LEGENDS

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
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AC INPUT-415V-50Hz-3P-4W
INCOMER-1

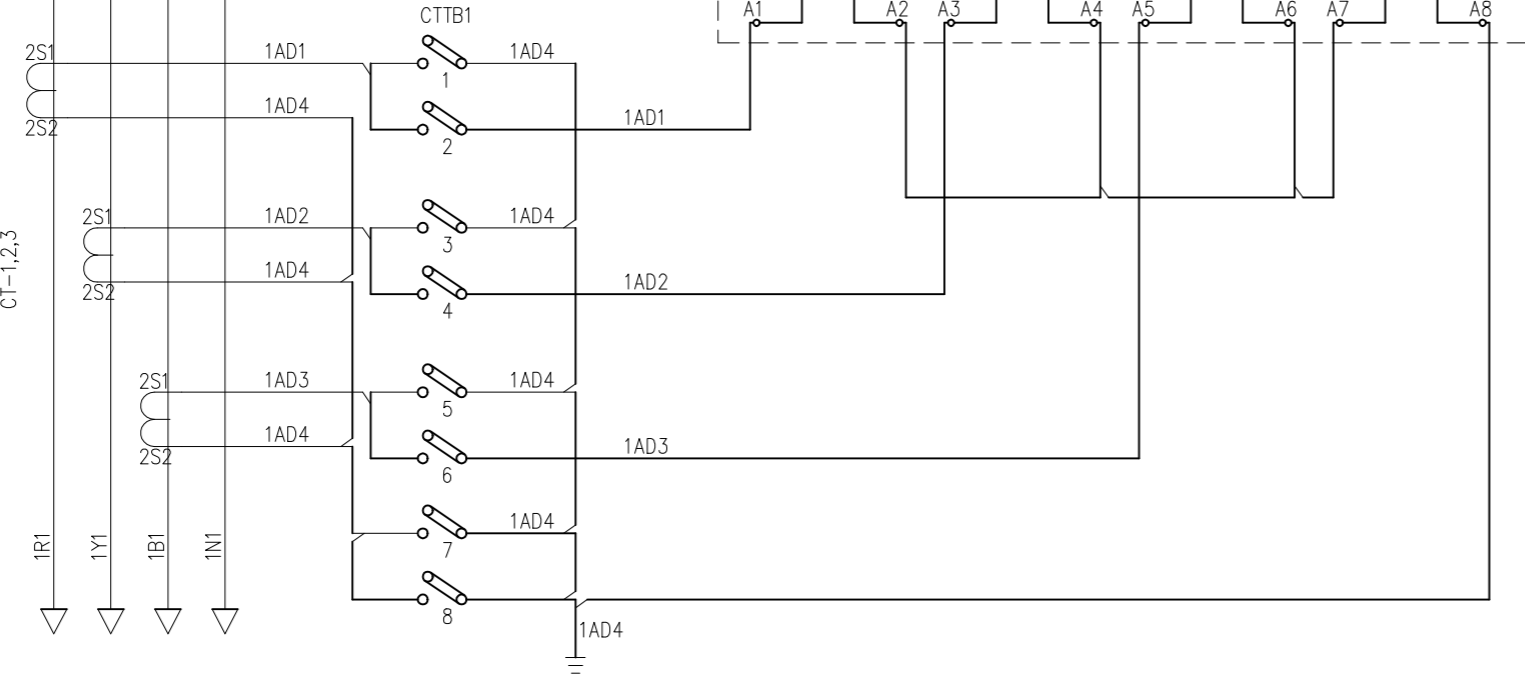


(17/1:A)
(17/1:C)
TO SPACE
HEATER CIRCUIT

TO METERING CIRCUIT

INSTANTANEOUS AND IDMT O/C+E/F RELAY
50 R,Y,B-50N+51 R,Y,B, 51N

CORE-2
1250/1A, CL: 5P15,10VA
CT-1,2,3



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TITLE

415V AC MAIN BOARD

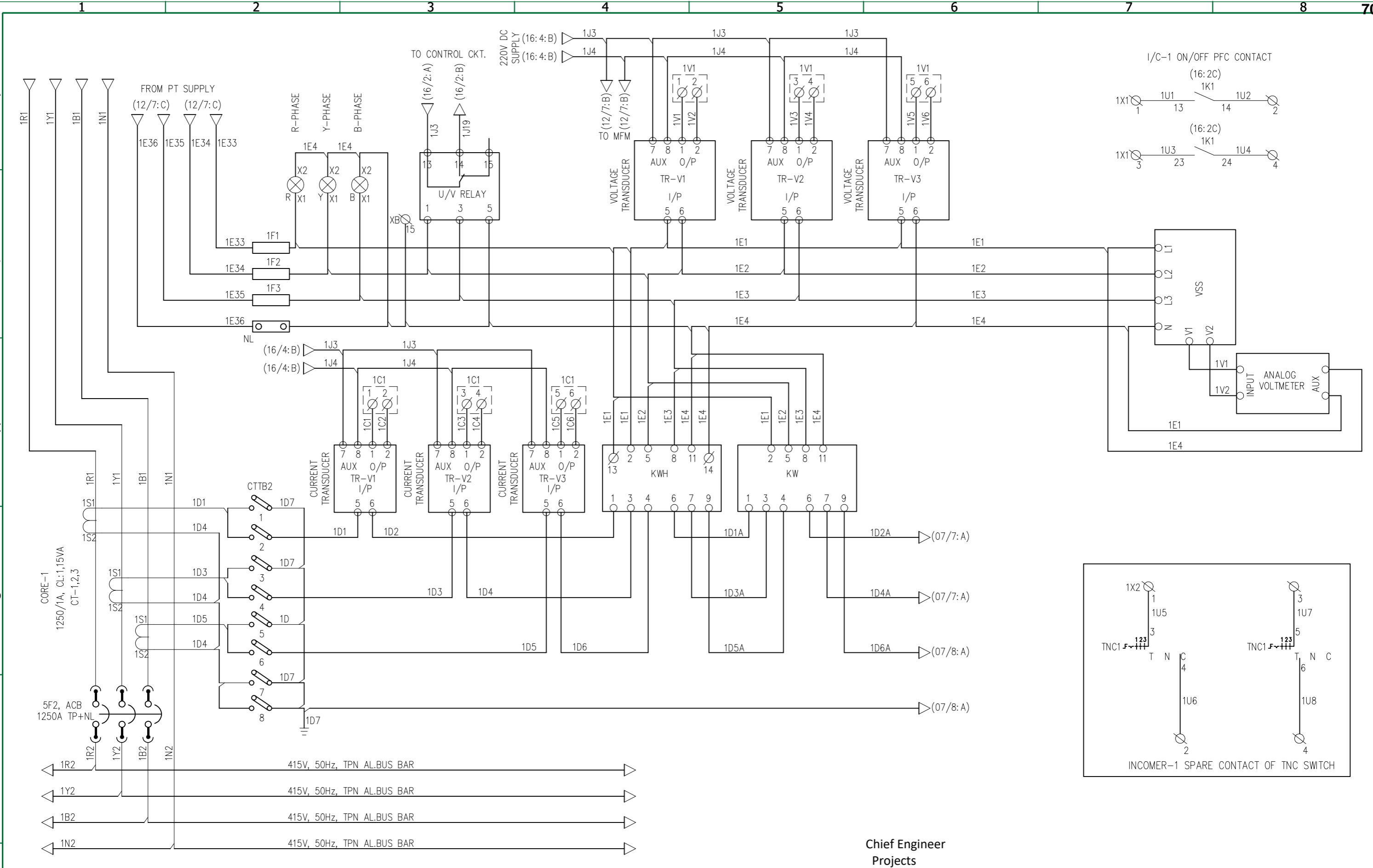
PAGE TYPE

TYPICAL POWER & CONTROL SCHEMES INCOMER-1

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO. 12 OF 66	
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CORE-1
1250/1A, CL-1, 15VA
CT-1, 2, 3

5F2, ACB
1250A TP+NL

- 1R2 415V, 50Hz, TPN AL.BUS BAR
- 1Y2 415V, 50Hz, TPN AL.BUS BAR
- 1B2 415V, 50Hz, TPN AL.BUS BAR
- 1N2 415V, 50Hz, TPN AL.BUS BAR

Chief Engineer
Projects

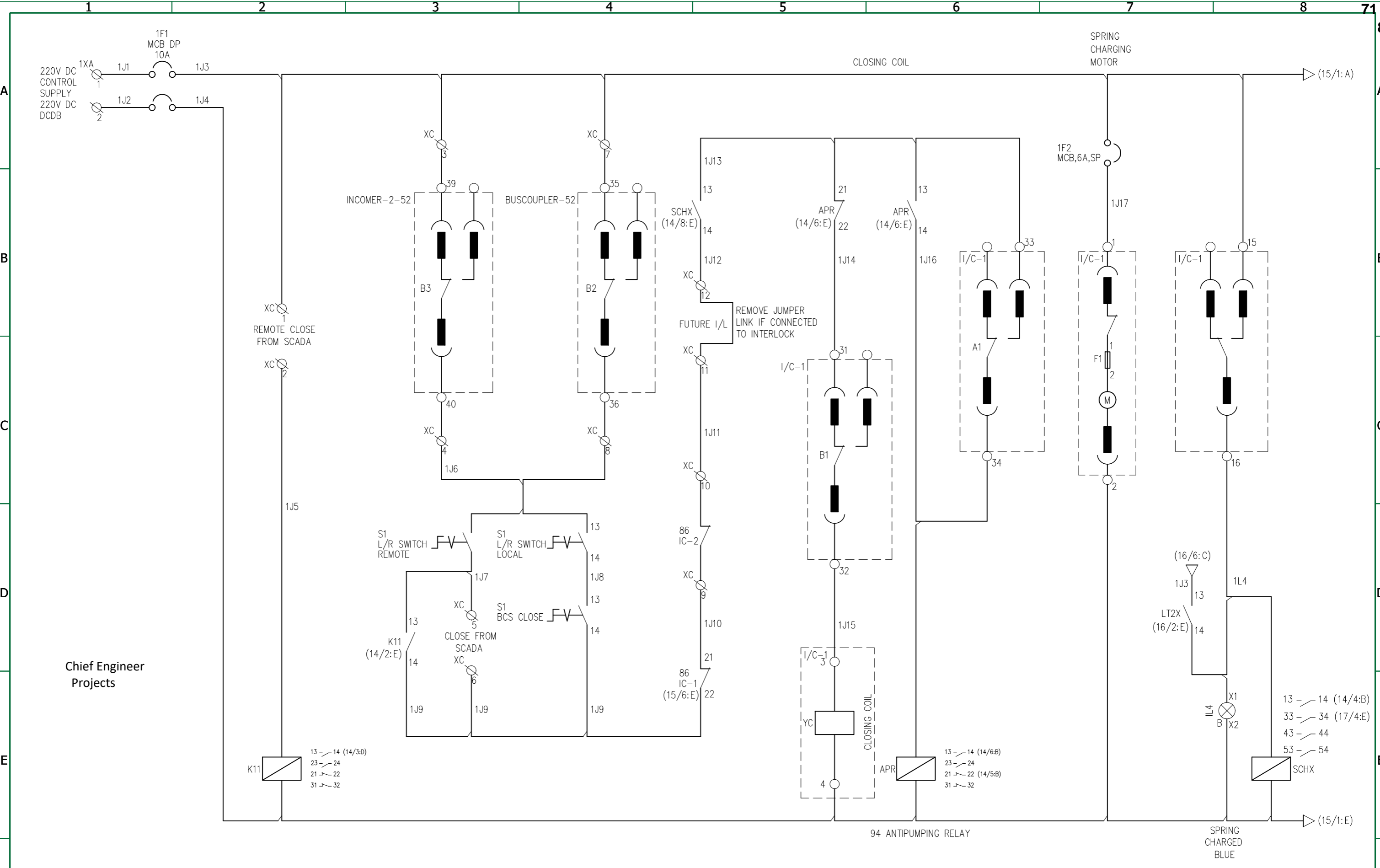
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TITLE	415V AC MAIN BOARD				
	PAGE TYPE	TYPICAL POWER & CONTROL SCHEMES INCOMER-1			
DRAWING No.	GSS-23-24-024ACMB	DRN	RC	SCALE	NA
	APPD	JR	CHD	BB	DATE
REV.	R6	SHEET NO.		13 OF 66	
		REV.		R6	

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R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

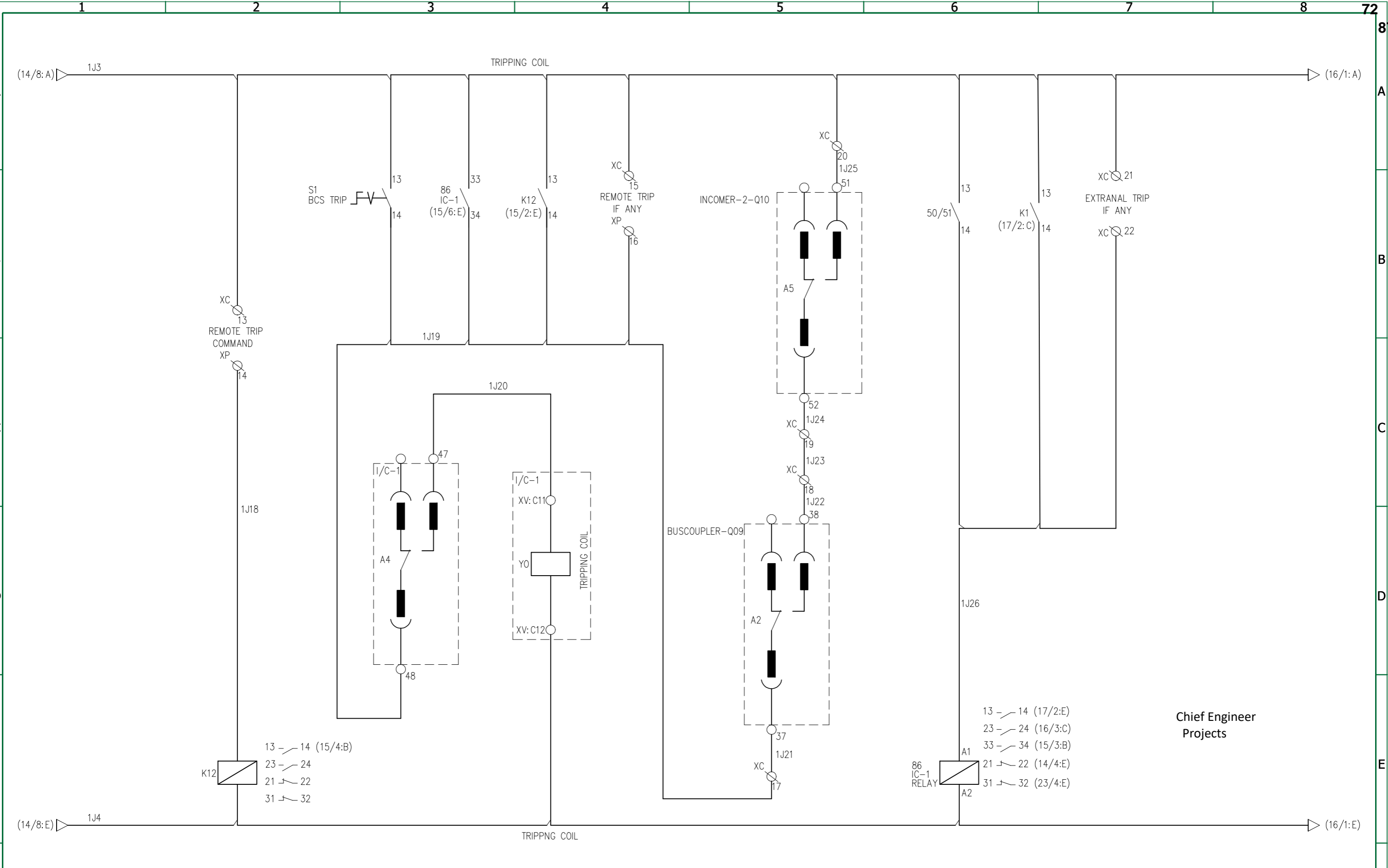
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TITLE	415V AC MAIN BOARD	
	PAGE TYPE	INCOMER-1 CLOSING CIRCUIT

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
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Chief Engineer
Projects

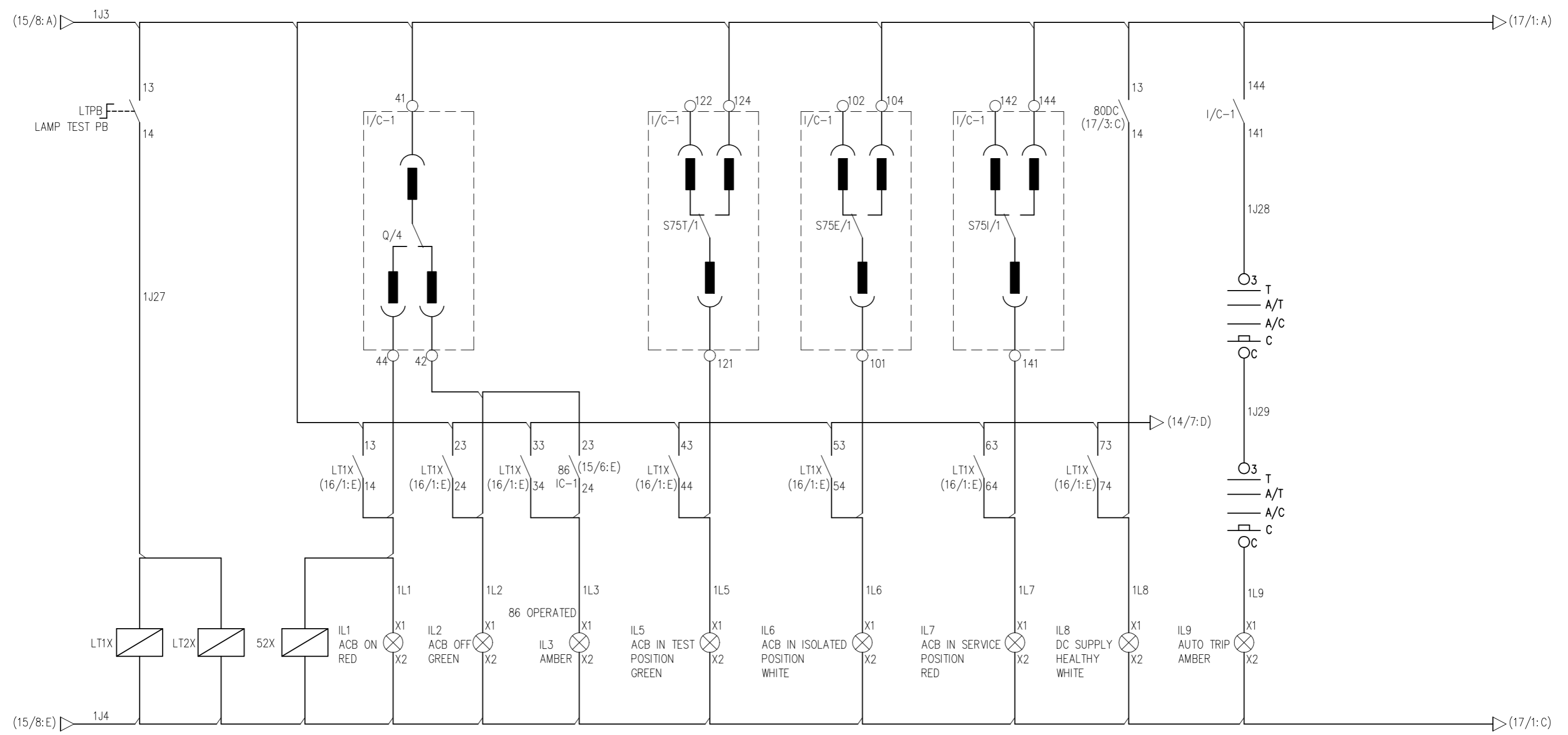
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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
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R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	PAGE TYPE	INCOMER-1 TRIPPING CIRCUIT	CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 15 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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- 13 - 14 (16/2:C)
- 13 - 14 (14/7:D)
- 13 - 14 (17/7:E)
- 23 - 24 (16/3:C)
- 23 - 24 (17/2:E)
- 33 - 34 (16/3:C)
- 33 - 34 (17/7:E)
- 43 - 44 (16/4:C)
- 21 - 22 (17/7:E)
- 31 - 32 (17/2:E)
- 53 - 54 (16/5:C)
- 63 - 64 (16/5:C)
- 73 - 74 (16/6:C)
- 83 - 84

Chief Engineer
Projects

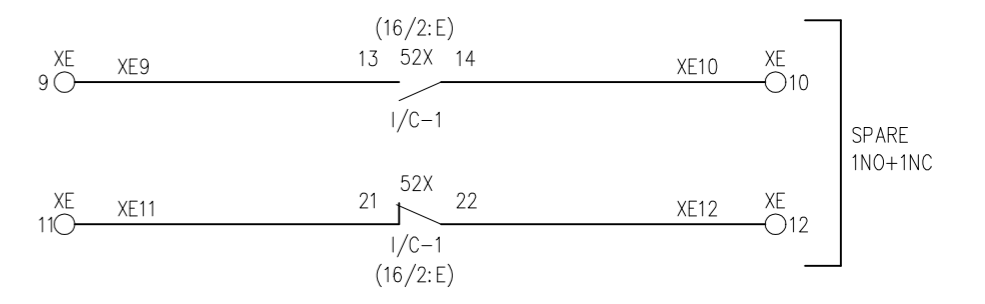
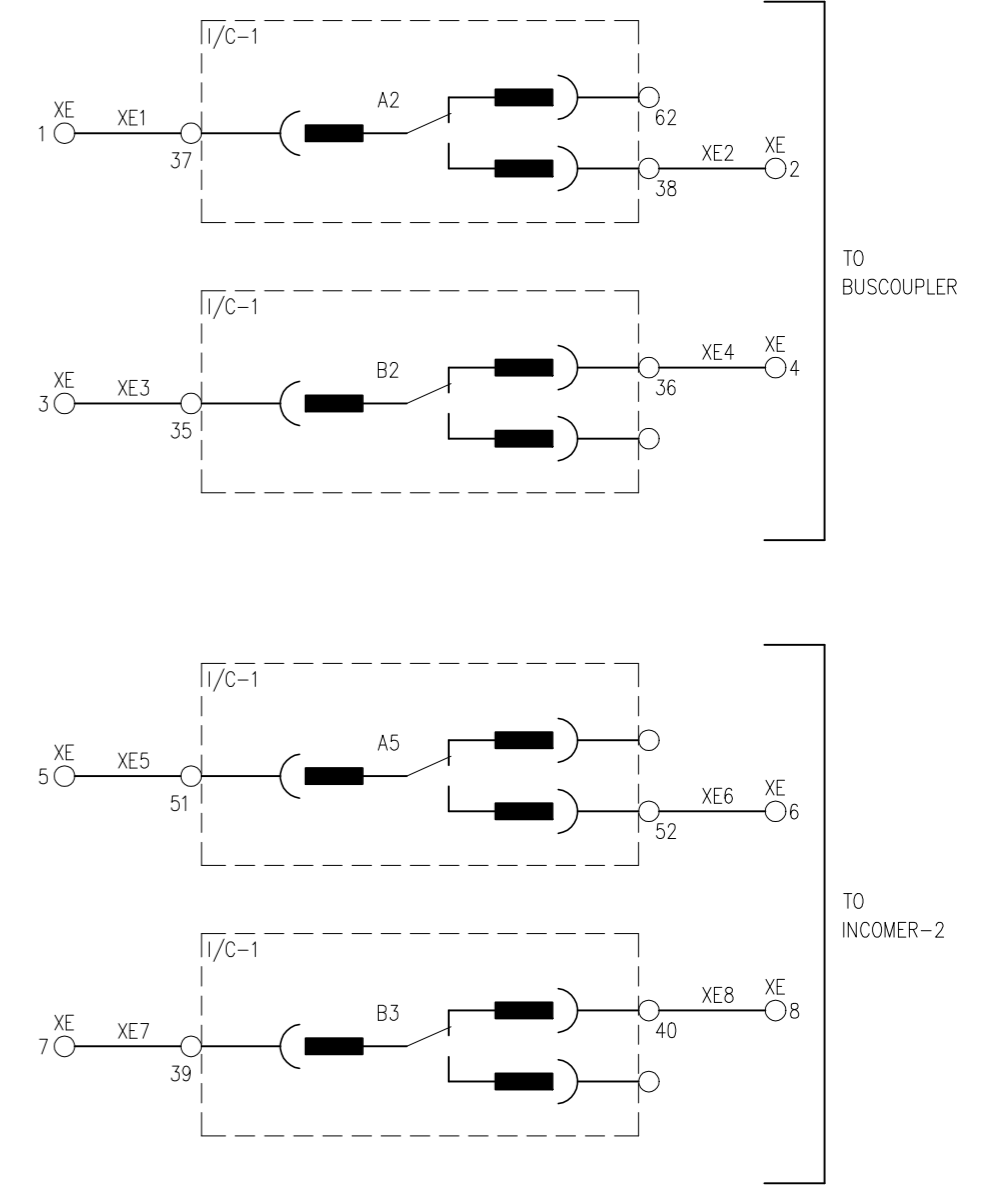
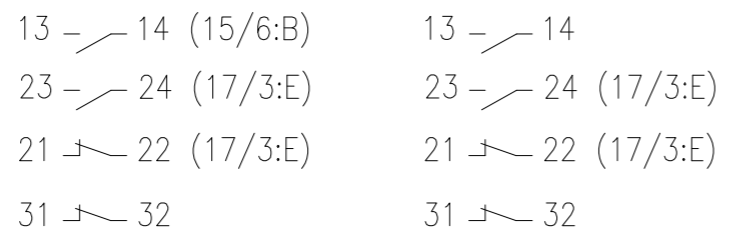
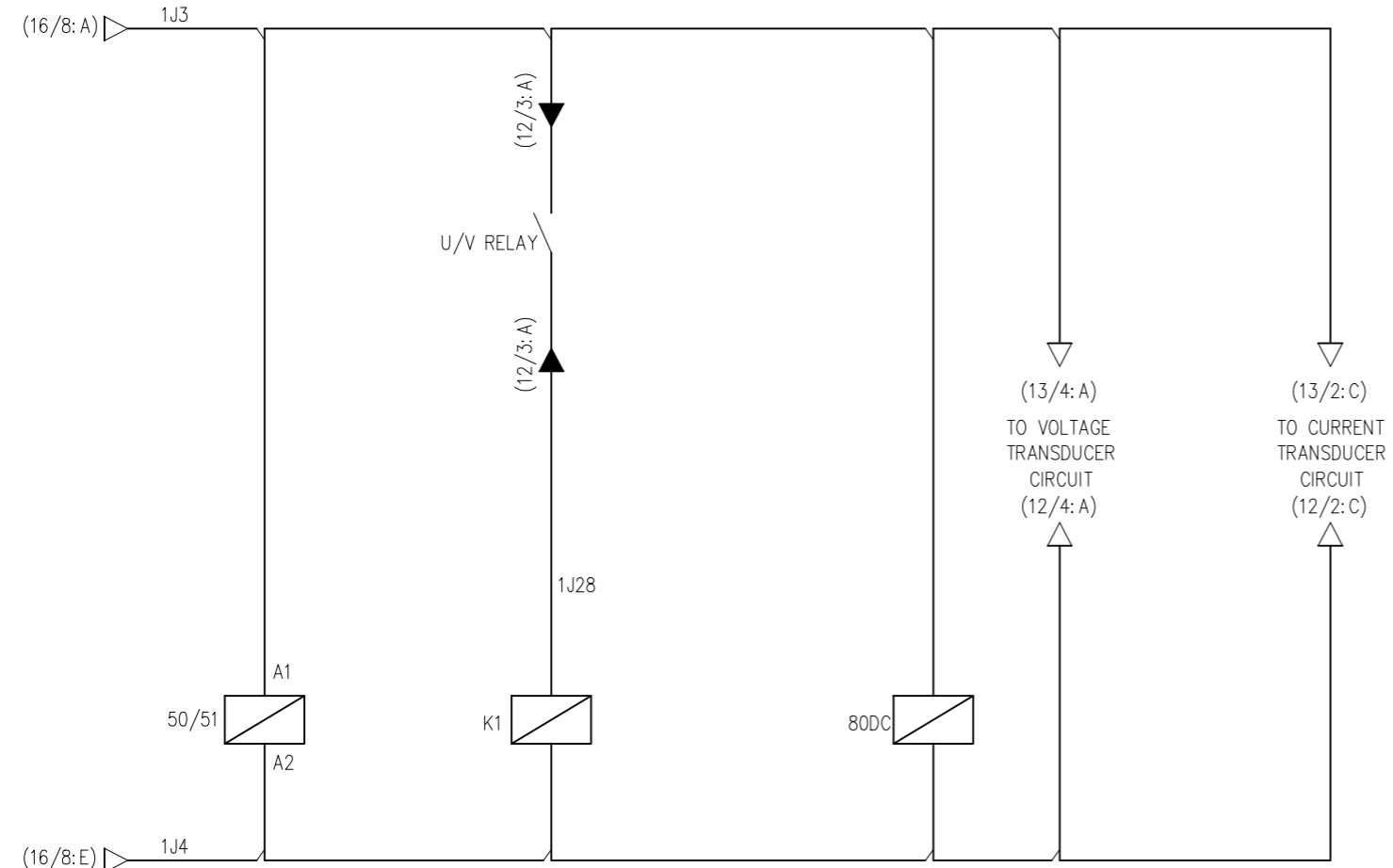
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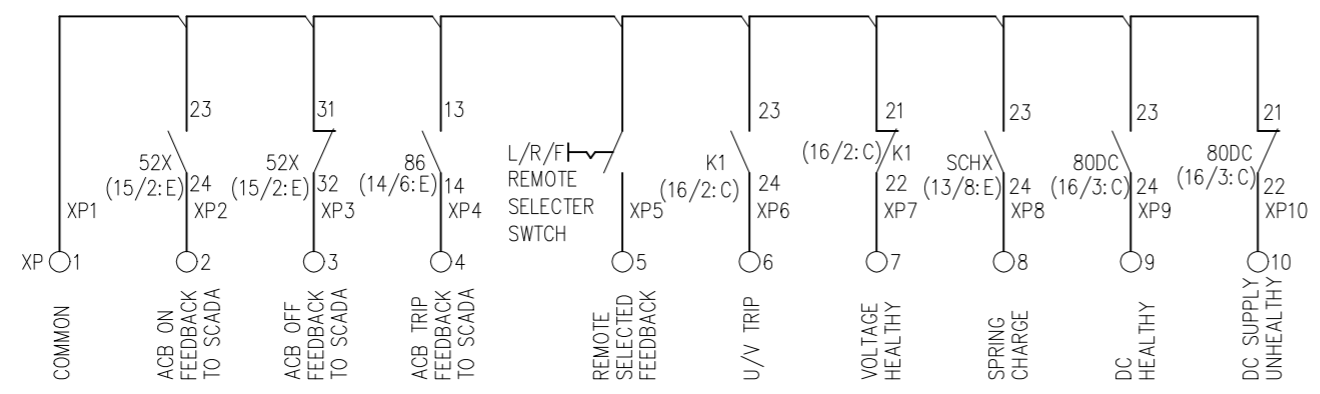


TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA
	PAGE TYPE	INCOMER-1 INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
				APPD	JR	SHEET NO. 16 OF 66	
				DRAWING No. GSS-23-24-024ACMB		REV.	R6

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Chief Engineer Projects



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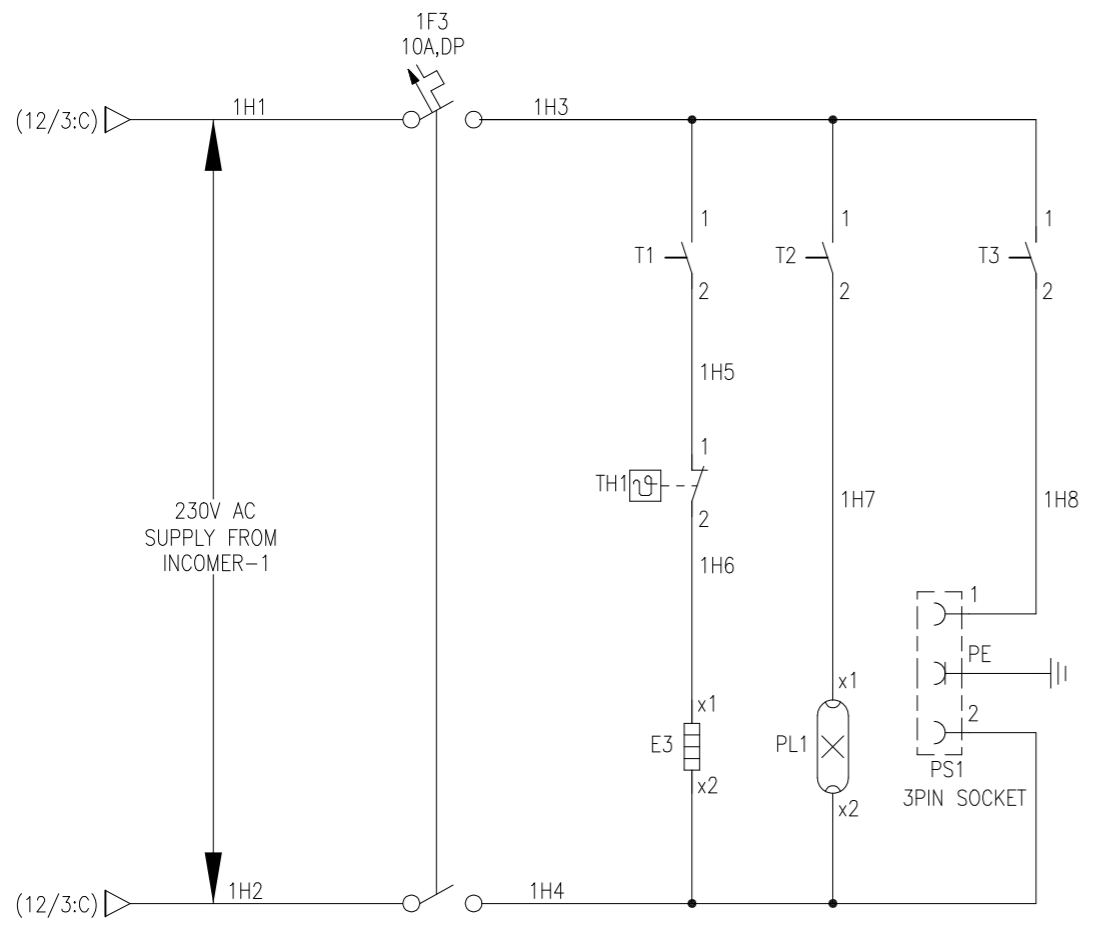
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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA
	PAGE TYPE	INCOMER-1 INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
				APPD	JR	SHEET NO.	
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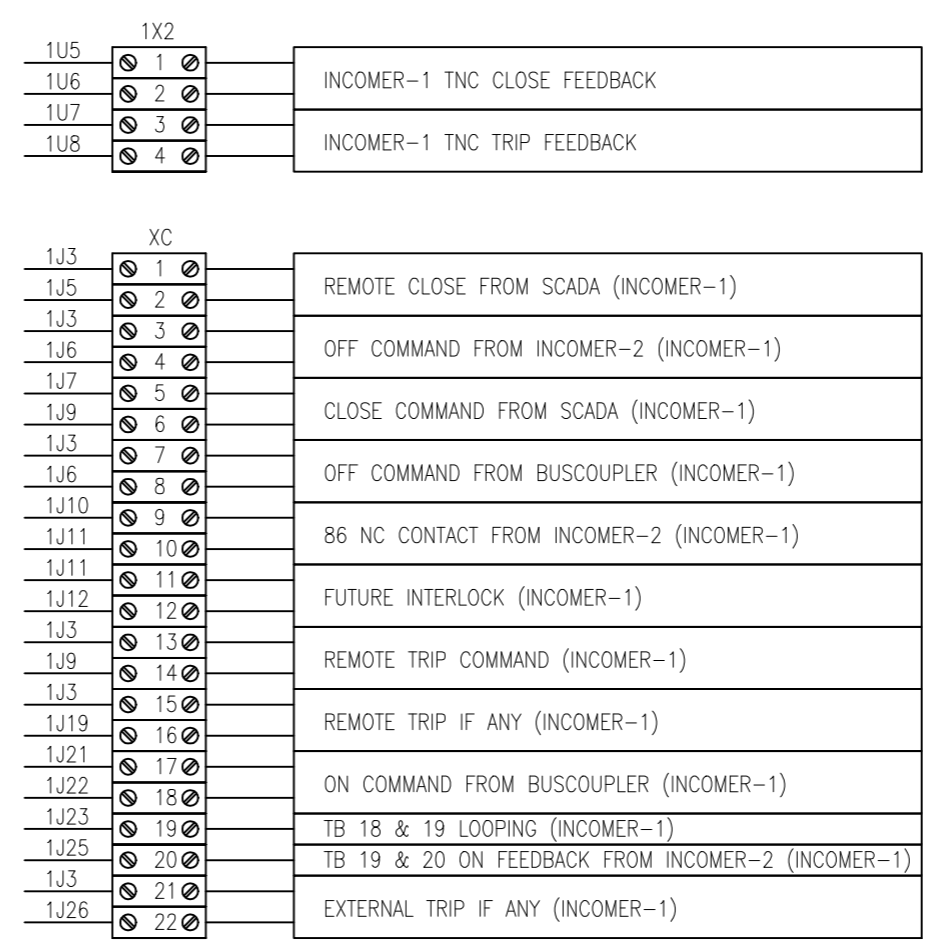
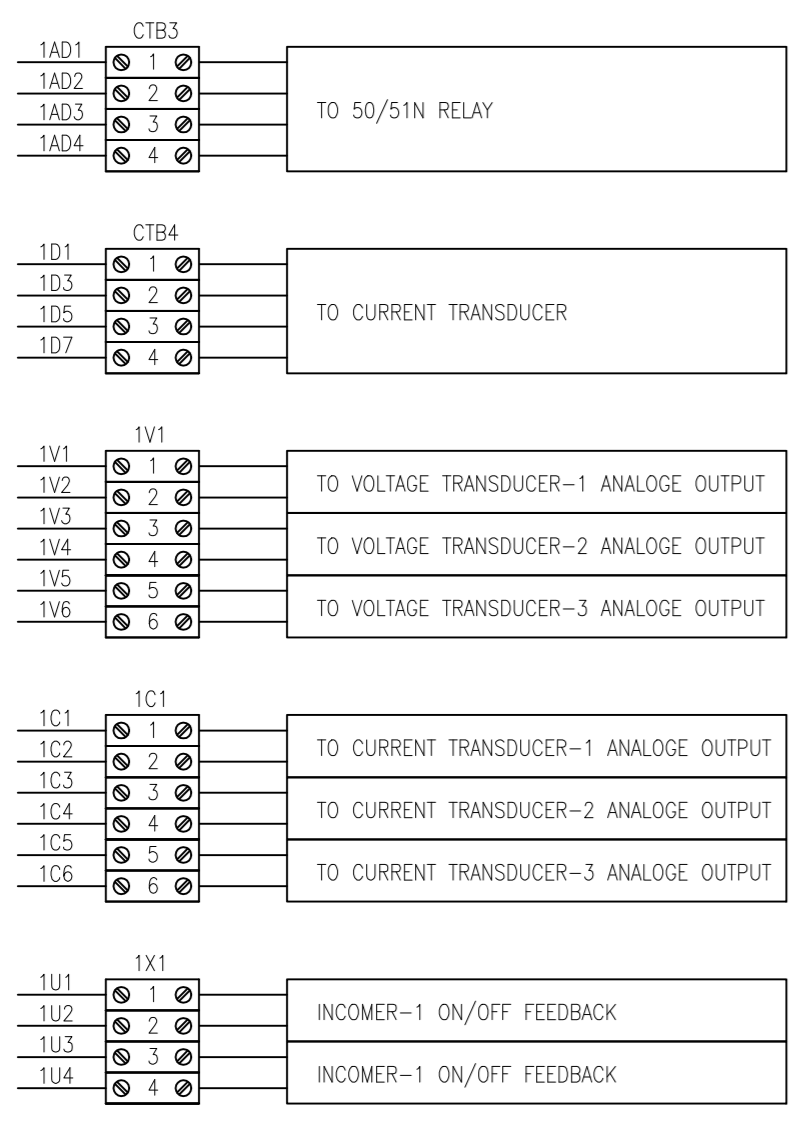


TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	INCORDER-1 SPACE HEATER CIRCUIT		CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 18 OF 66	
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TERMINAL DIAGRAM

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	PAGE TYPE		CHD	BB	DATE	14.09.2023
	INCOMER-1 TERMINAL BLOCK DETAILS		APPD	JR	SHEET NO.	
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TERMINAL DIAGRAM

For EPC Contracts Only

XP		
XP1	1	COMMAN (INCOMER-1)
XP2	2	ACB ON FEEDBACK TO SCADA (INCOMER-1)
XP3	3	ACB OFF FEEDBACK TO SCADA (INCOMER-1)
XP4	4	ACB TRIP FEEDBACK TO SCADA (INCOMER-1)
XP5	5	REMOTE SELECTED FEEDBACK TO SCADA (INCOMER-1)
XP6	6	U/V TRIP FEEDBACK TO SCADA (INCOMER-1)
XP7	7	VOLTAGE HEALTHY FEEDBACK TO SCADA (INCOMER-1)
XP8	8	SPRING CHARGE FEEDBACK TO SCADA (INCOMER-1)
XP9	9	DC HEALTHY FEEDBACK TO SCADA (INCOMER-1)
XP10	10	DC SUPPLY UNHEALTHY FEEDBACK TO SCADA (INCOMER-1)

XE		
XE1	1	ON FEEDBACK FOR BUSCOUPLER (INCOMER-1)
XE2	2	
XE3	3	OFF FEEDBACK FOR BUSCOUPLER (INCOMER-1)
XE4	4	
XE5	5	ON FEEDBACK FOR INCOMER-2 (INCOMER-1)
XE6	6	
XE7	7	OFF FEEDBACK FOR INCOMER-2 (INCOMER-1)
XE8	8	
XE9	9	ON FEEDBACK FOR SPARE (INCOMER-1)
XE10	10	
XE11	11	OFF FEEDBACK FOR SPARE (INCOMER-1)
XE12	12	

Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	INCOMER-1 TERMINAL BLOCK DETAILS		CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO.	
			DRAWING No.		20	OF 66
		GSS-23-24-024ACMB		REV.	R6	

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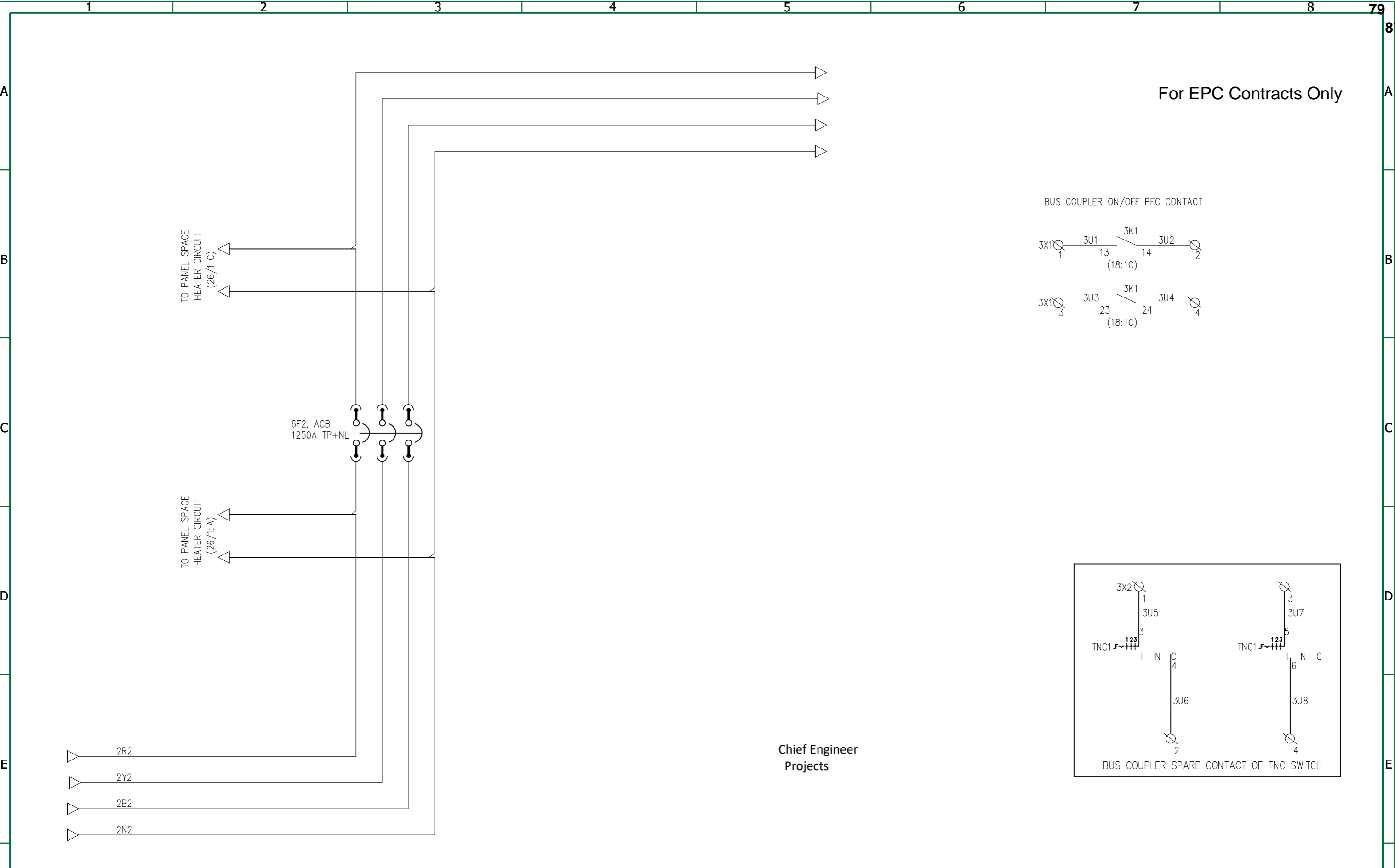
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL		APPD	JR	SHEET NO.	
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL		DRAWING No.		21	OF 66
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC		GSS-23-24-024ACMB		REV.	R6
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC					
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.				TITLE	415V AC MAIN BOARD			
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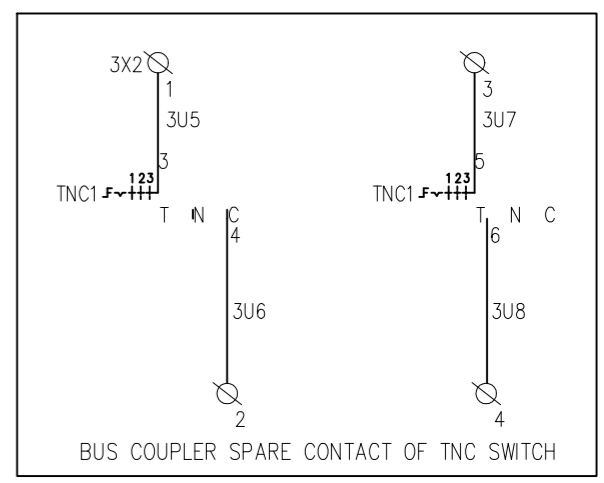
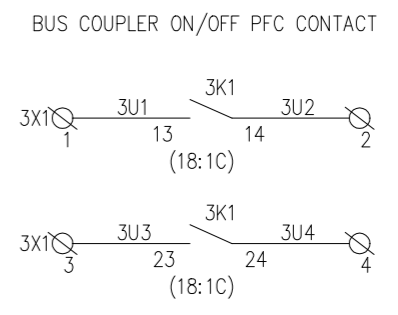
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Grid letters: A, B, C, D, E, F

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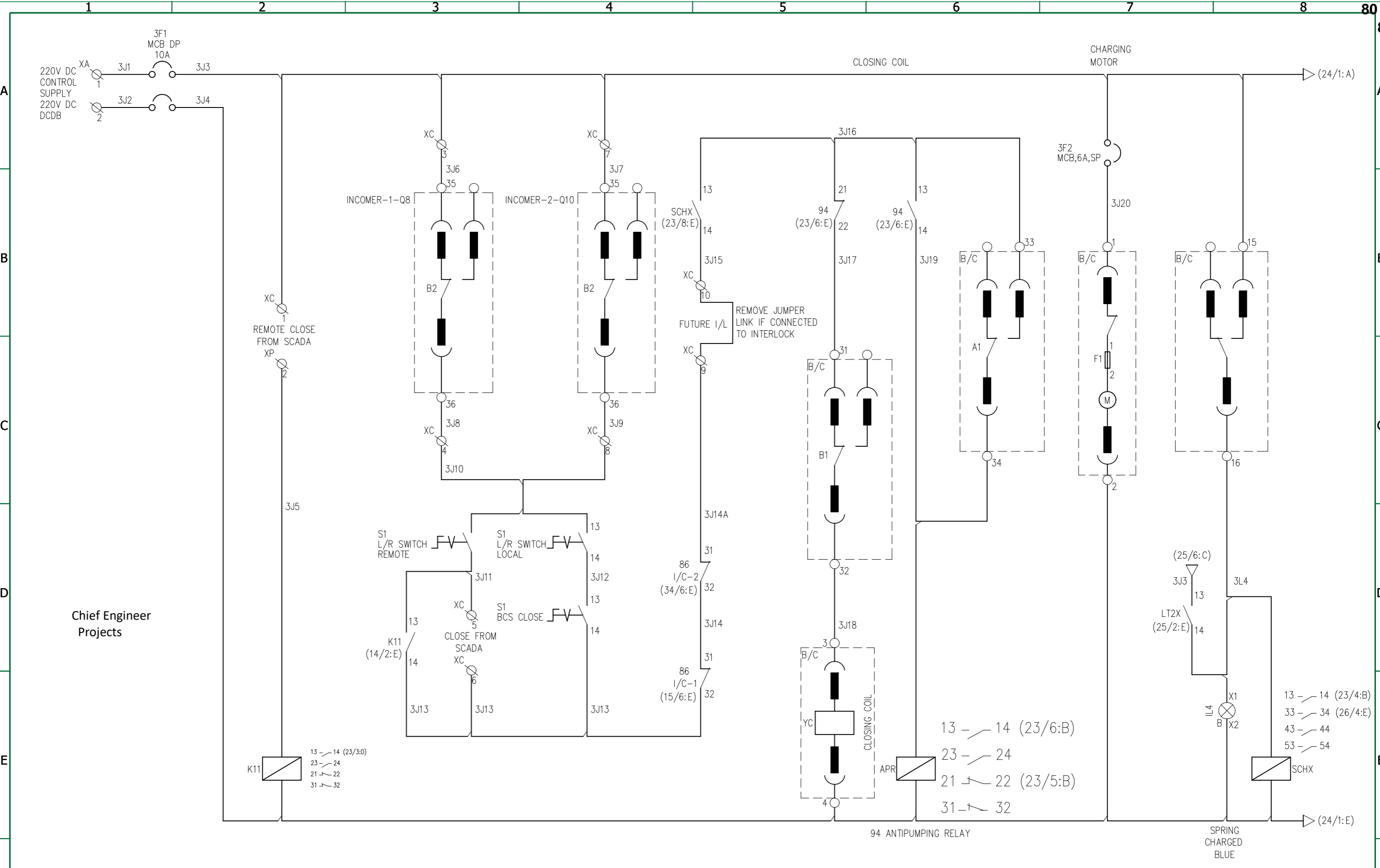
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	PAGE TYPE	TYPICAL POWER & CONTROL SCHEMES B/C	CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 22 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
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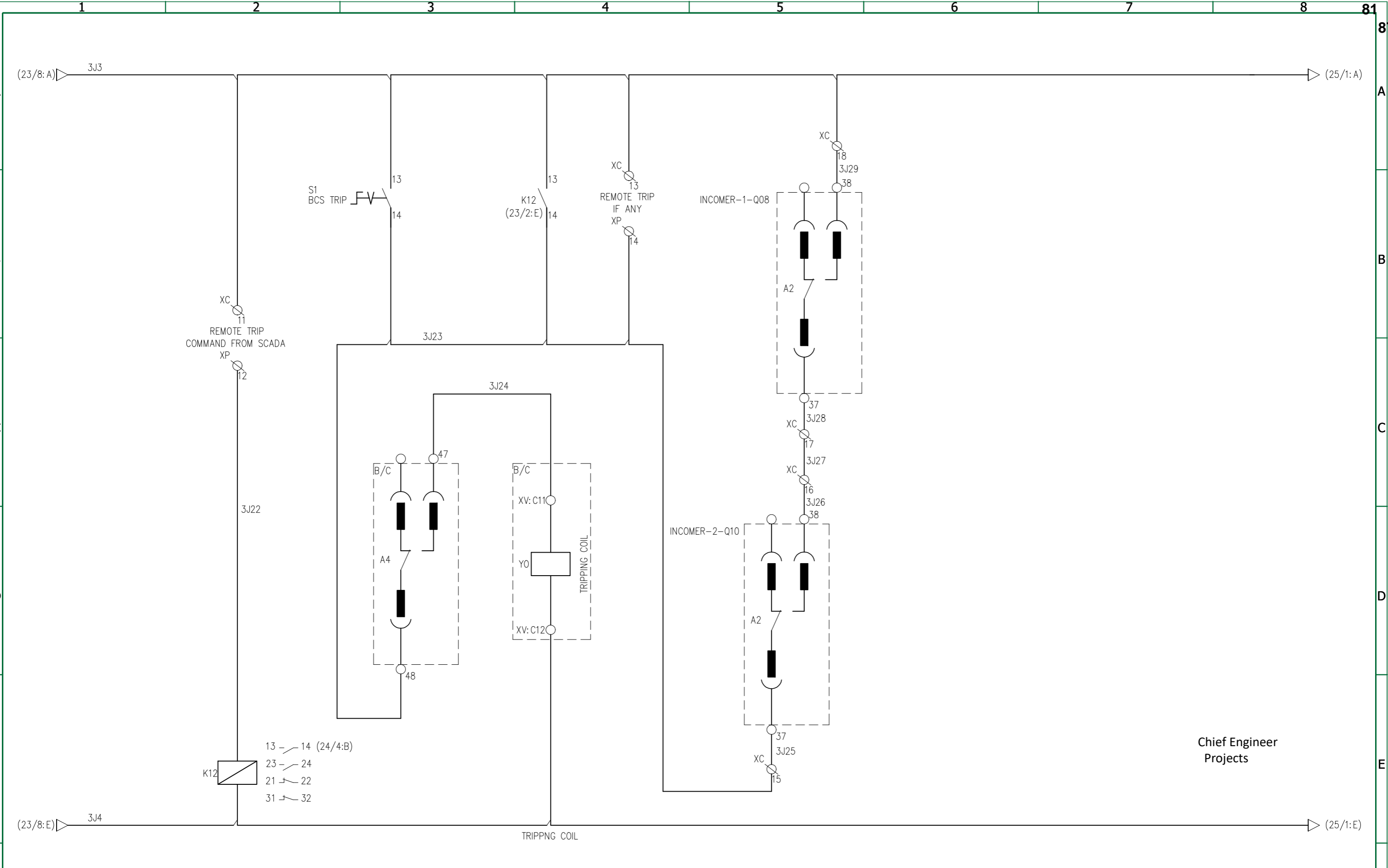
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TITLE	415V AC MAIN BOARD	
	PAGE TYPE	BUS COUPLER CLOSING CIRCUIT

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
DRAWING No.		23 OF 66	
GSS-23-24-024ACMB	REV.	R6	

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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

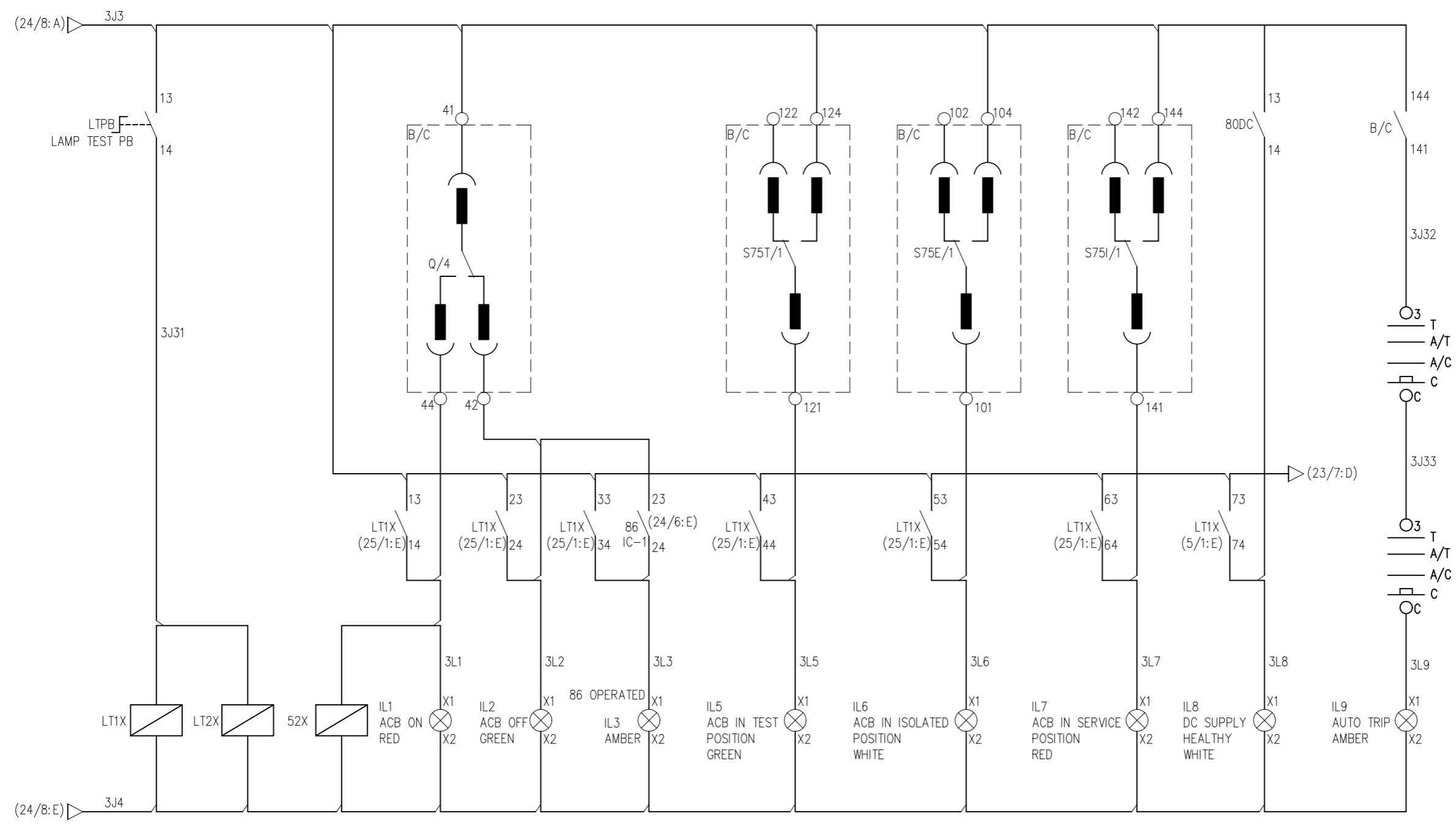
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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PAGE TYPE	DRAWING No.		APPD	JR	SHEET NO.	
	GSS-23-24-024ACMB				24	OF 66
			REV.	R6		

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- 13 - 14 (25/2:C) 13 - 14 (23/7:D) 13 - 14 (26/7:E)
- 23 - 24 (25/3:C) 23 - 24 (26/2:E)
- 33 - 34 (25/3:C) 33 - 34 (26/7:E)
- 43 - 44 (25/4:C) 21 - 22 (26/7:E)
- 53 - 54 (25/5:C)
- 63 - 64 (25/5:C)
- 73 - 74 (25/6:C)
- 83 - 84

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Projects

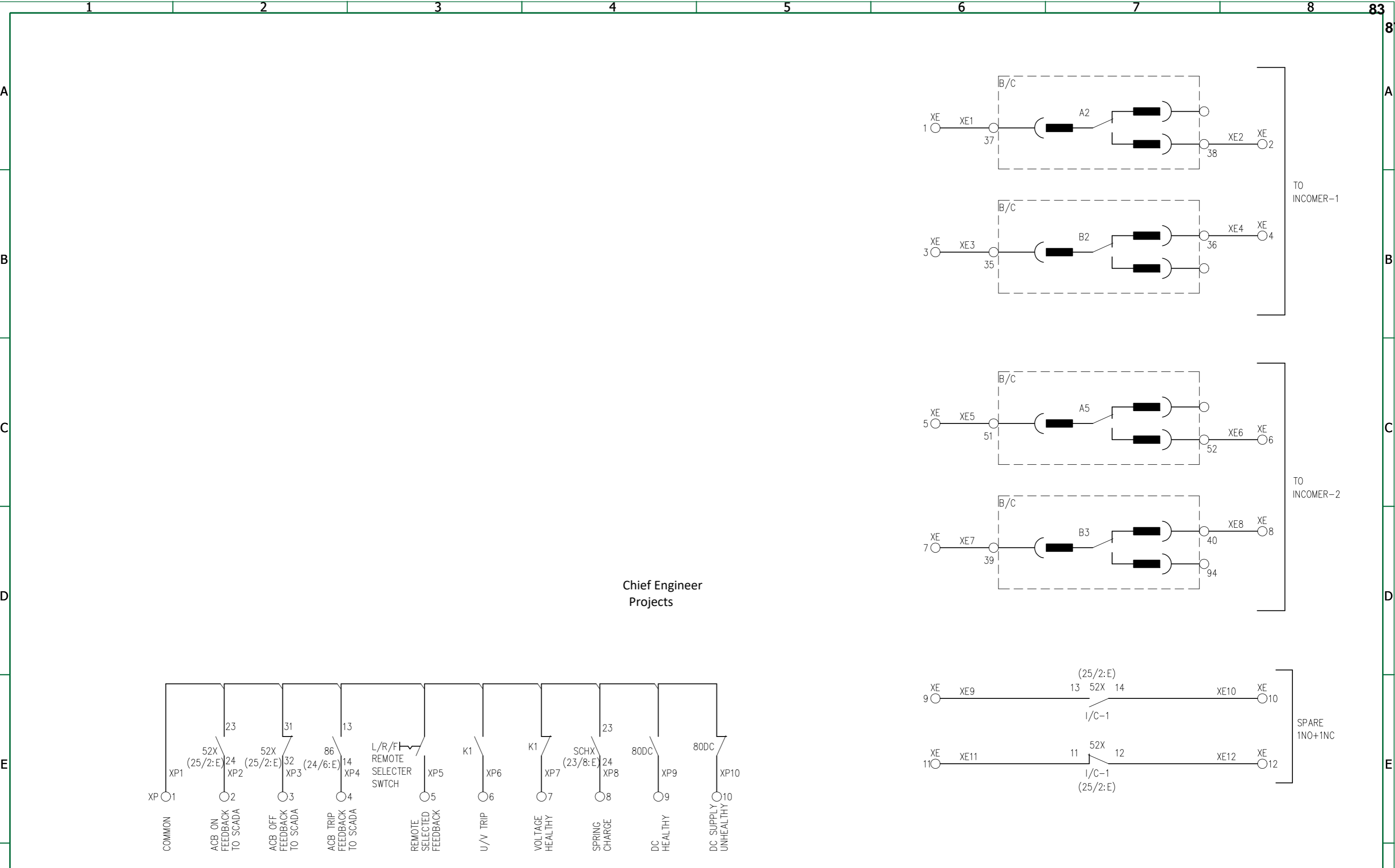
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA	
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		DRAWING No. GSS-23-24-024ACMB			APPD	JR	SHEET NO.	
		REV. R6					25 OF 66	

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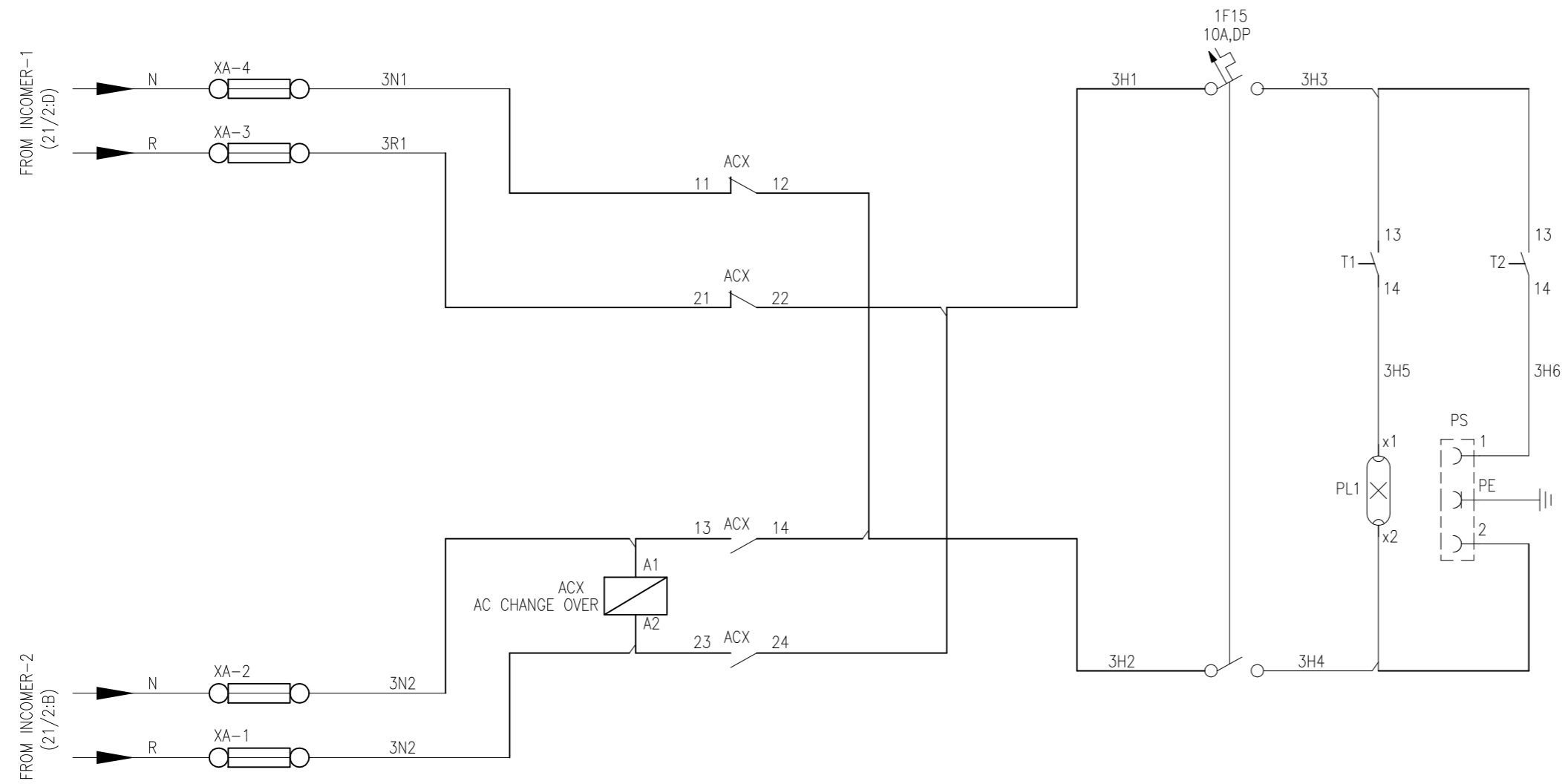
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	BUS COUPLER INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO.	
	PAGE TYPE	DRAWING No. GSS-23-24-024ACMB		REV.	R6	

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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
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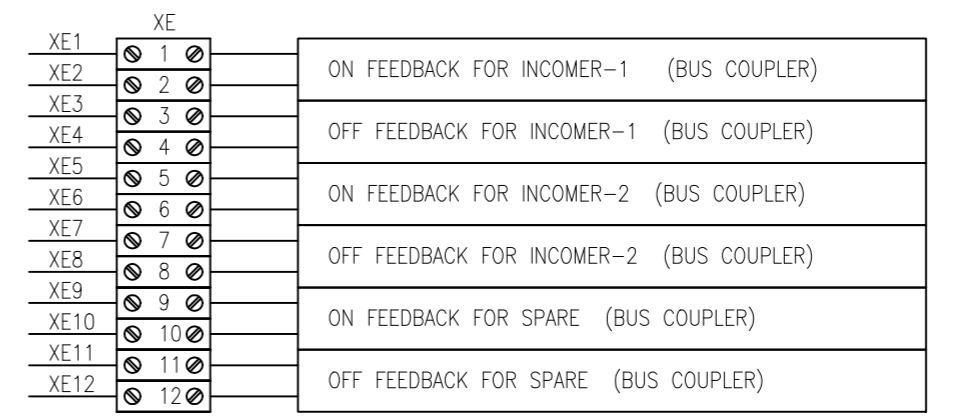
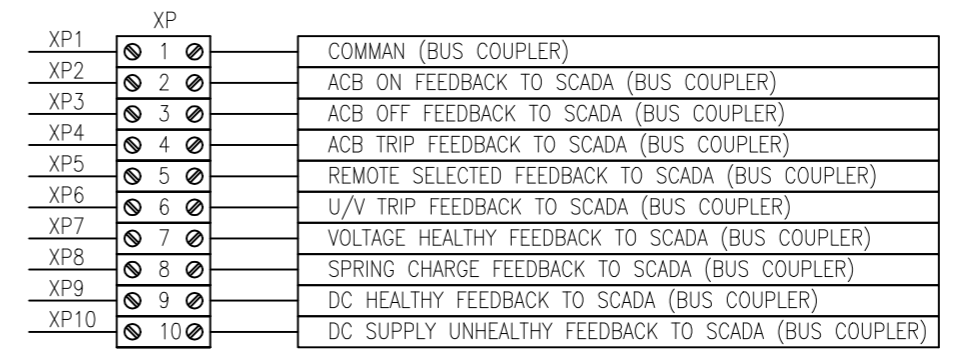
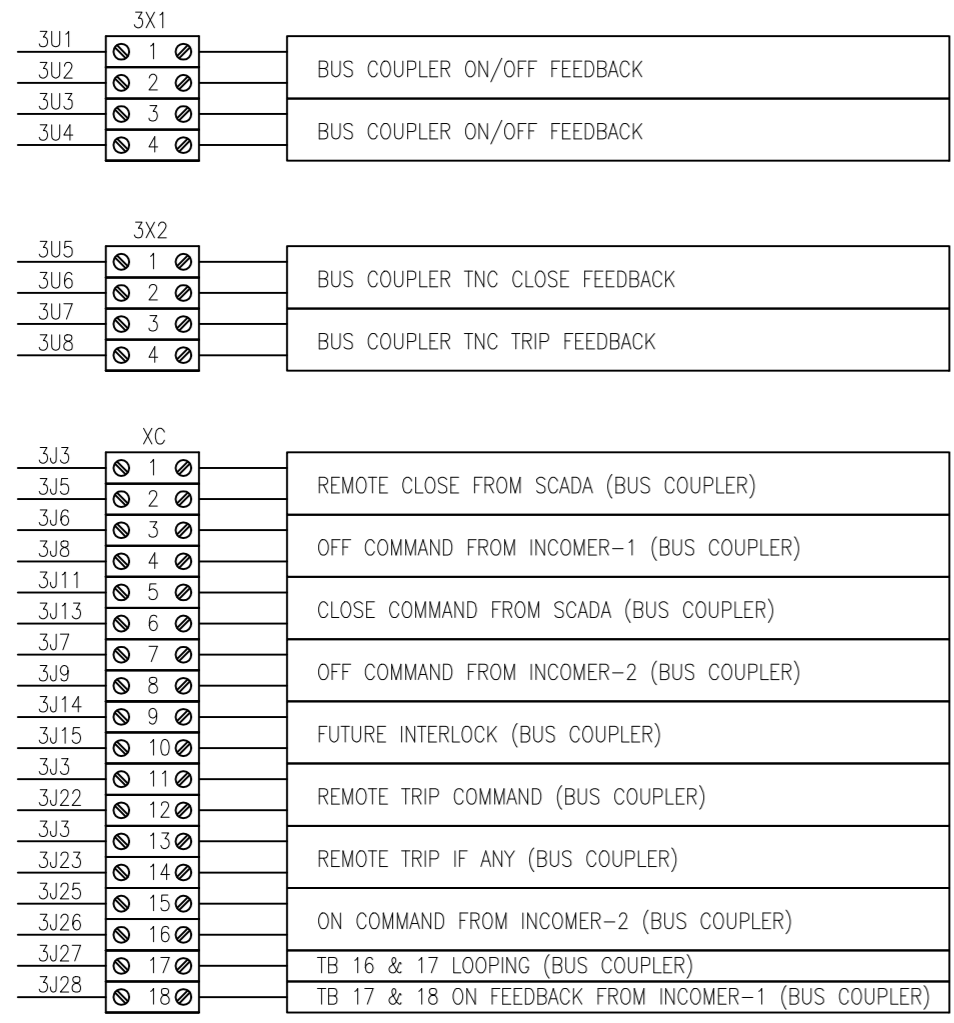


TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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TERMINAL DIAGRAM

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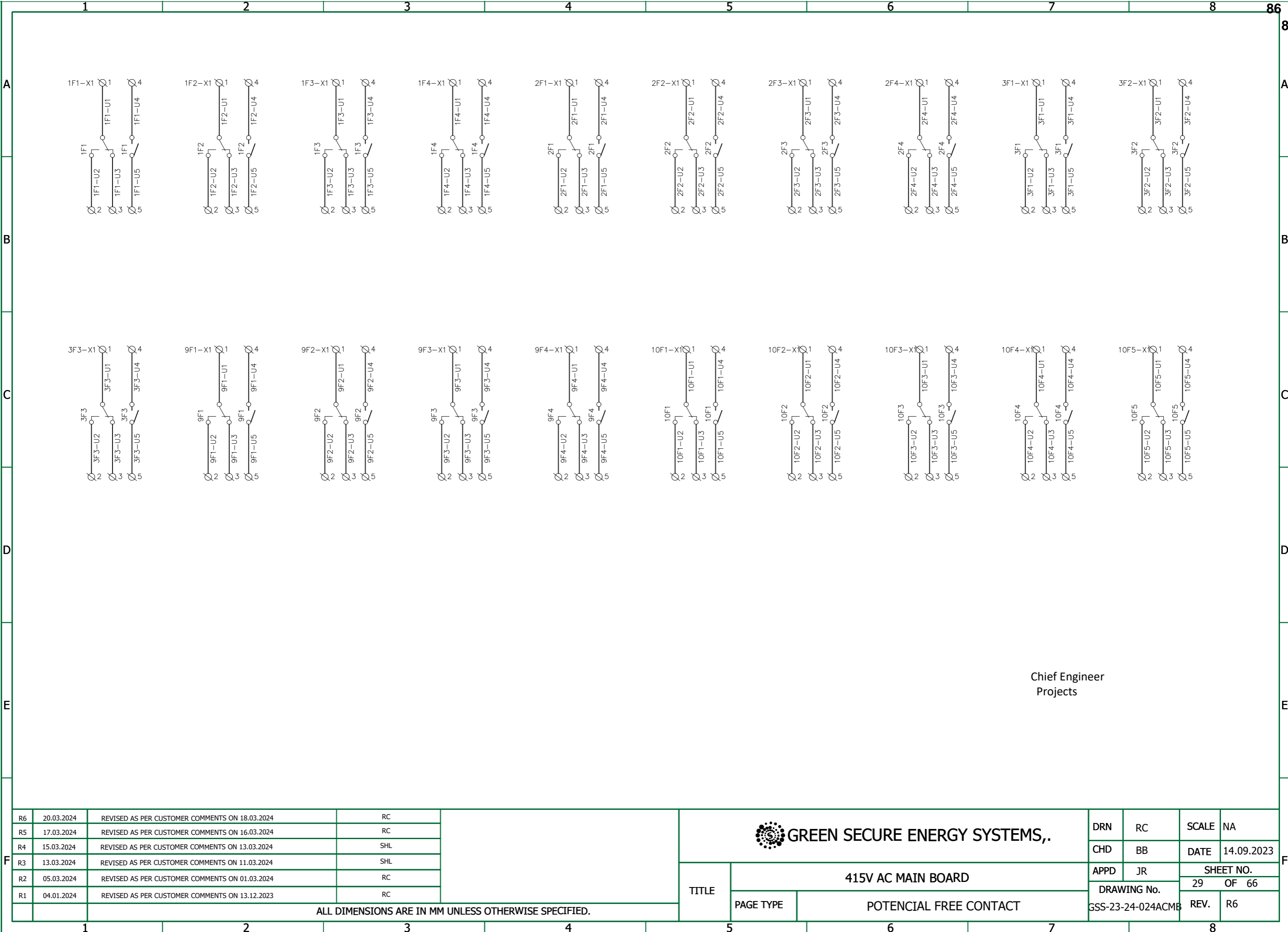
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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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			APPD	JR	SHEET NO. 28 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC


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GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA	
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TITLE	415V AC MAIN BOARD POTENCIAL FREE CONTACT		APPD	JR	SHEET NO.	
			DRAWING No.		29	OF 66
PAGE TYPE	POTENCIAL FREE CONTACT		GSS-23-24-024ACMB	REV.	R6	

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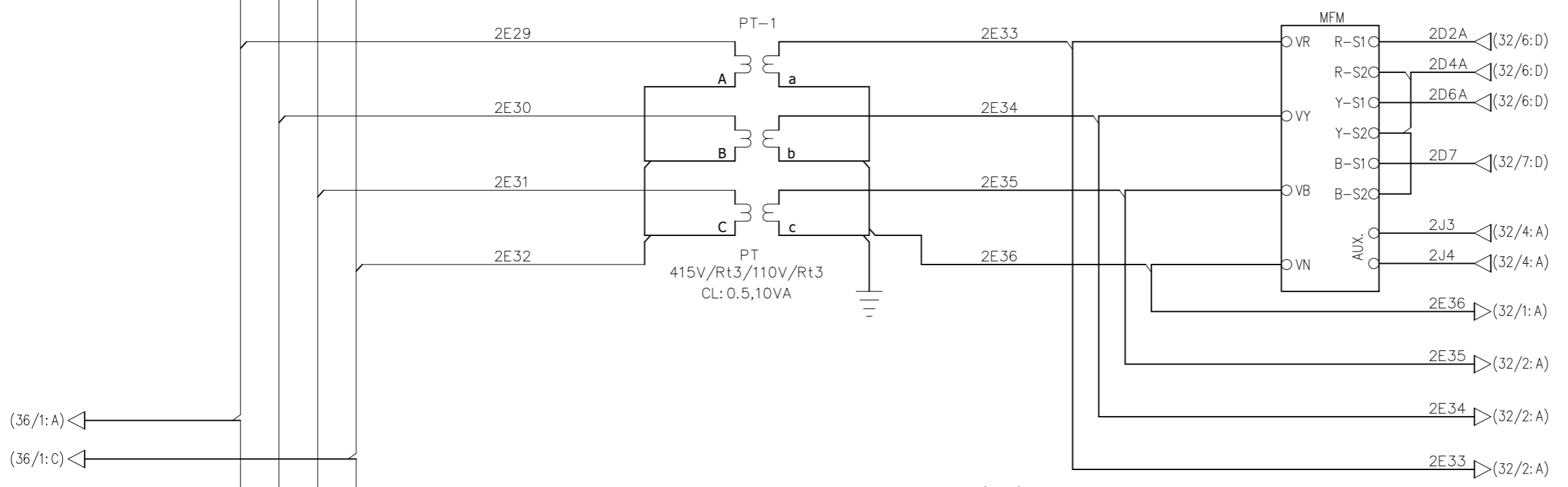
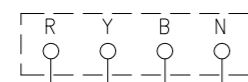
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R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL		DRAWING No.		30	OF 66
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC		GSS-23-24-024ACMB		REV.	R6
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ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.				TITLE	415V AC MAIN BOARD			
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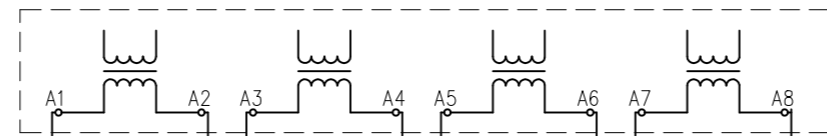
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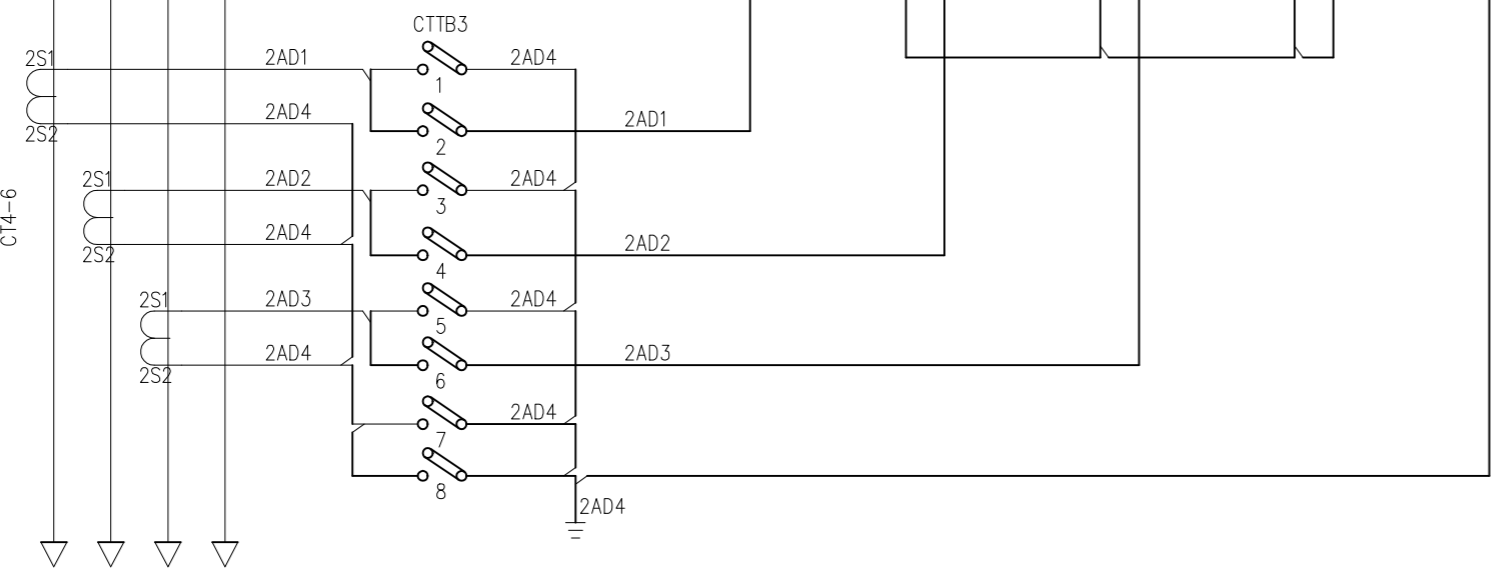
AC INPUT-415V-50Hz-3P-4W
INCOMER-2



INSTANTANEOUS AND IDMT O/C+E/F RELAY
50 R,Y,B-50N+51 R,Y,B, 51N



CORE-2
1250/1A, CL:5P15,10VA
CT4-6



Chief Engineer
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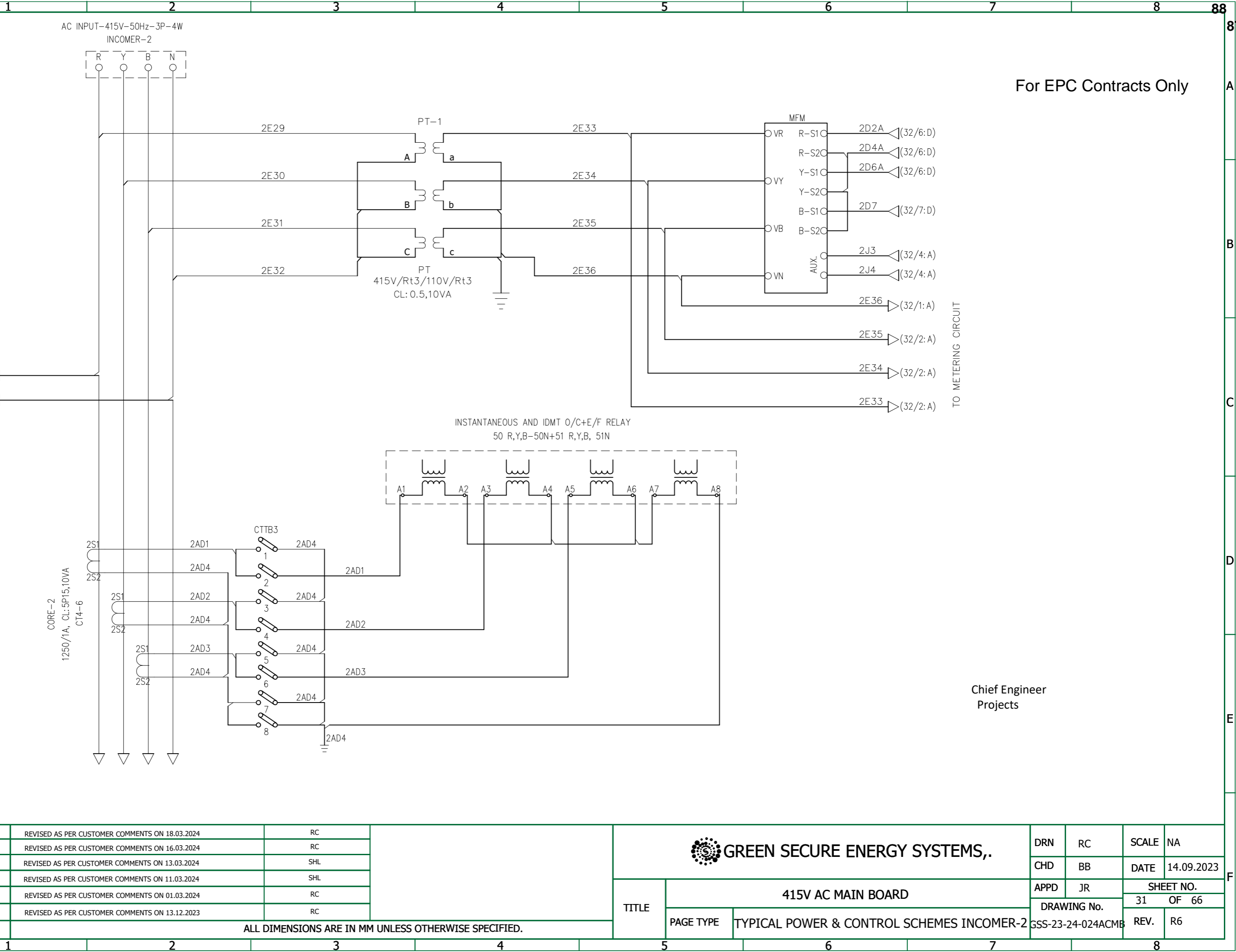
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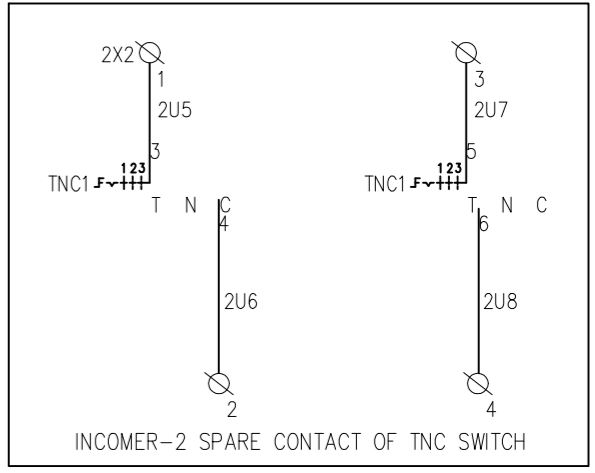
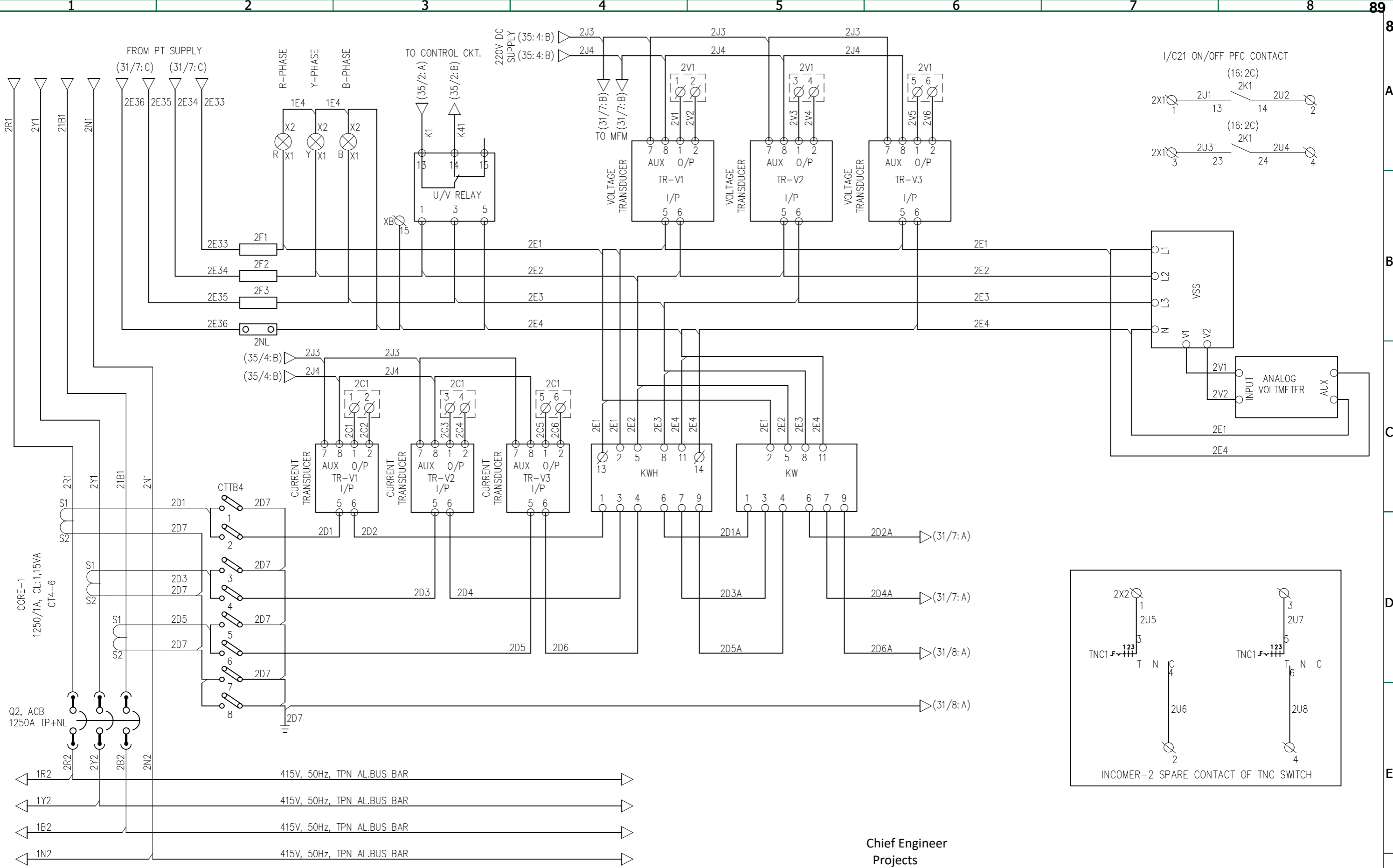


TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA		
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		DRAWING No.	GSS-23-24-024ACMB			APPD	JR	SHEET NO.	
			REV.	R6	31 OF 66				

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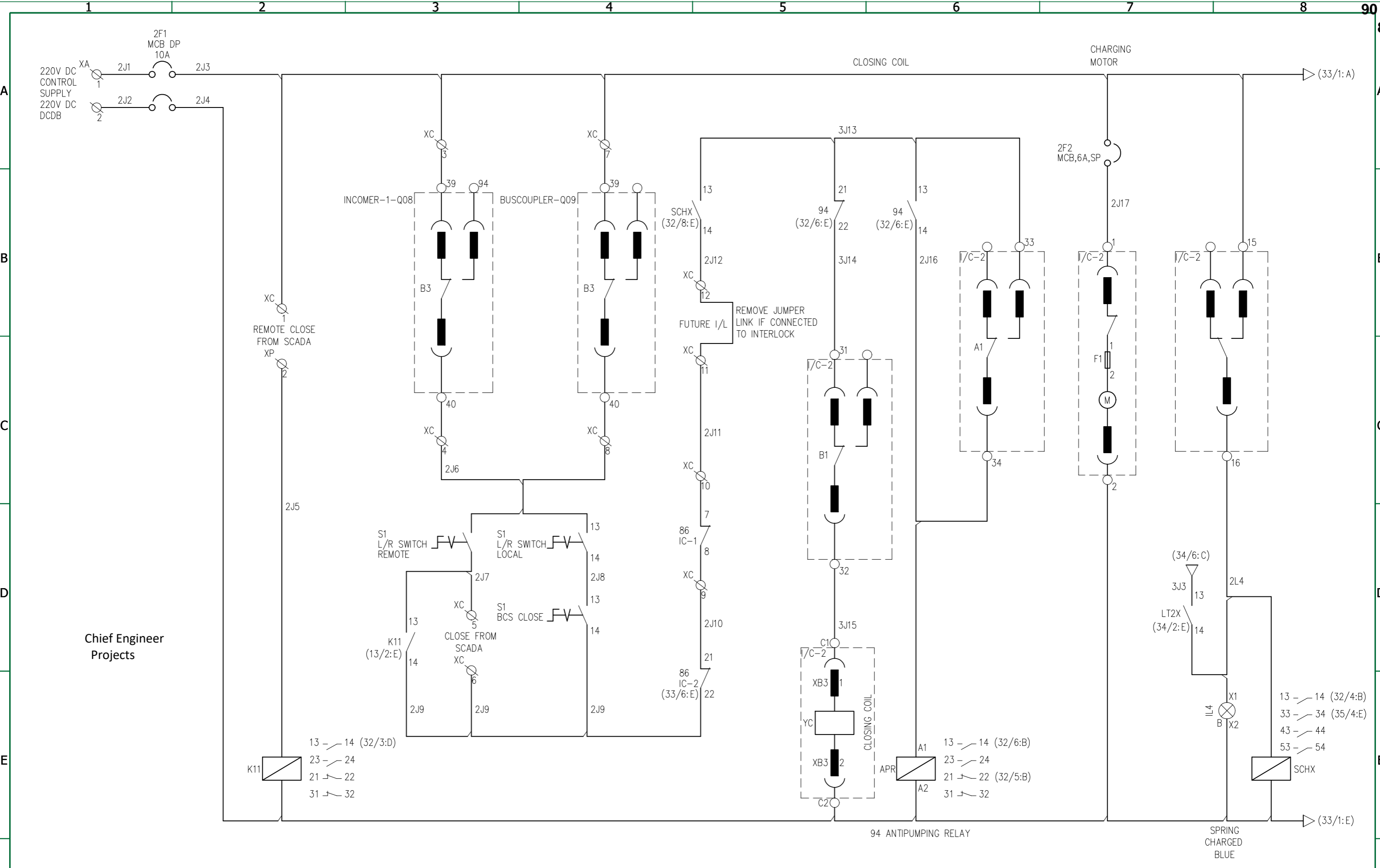
Chief Engineer
Projects

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		DRN	RC	SCALE	NA	
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TITLE	415V AC MAIN BOARD		APPD	JR	SHEET NO.	
			DRAWING No.		32 OF 66	
PAGE TYPE	TYPICAL POWER & CONTROL SCHEMES INCOMER-2		REV.	R6		

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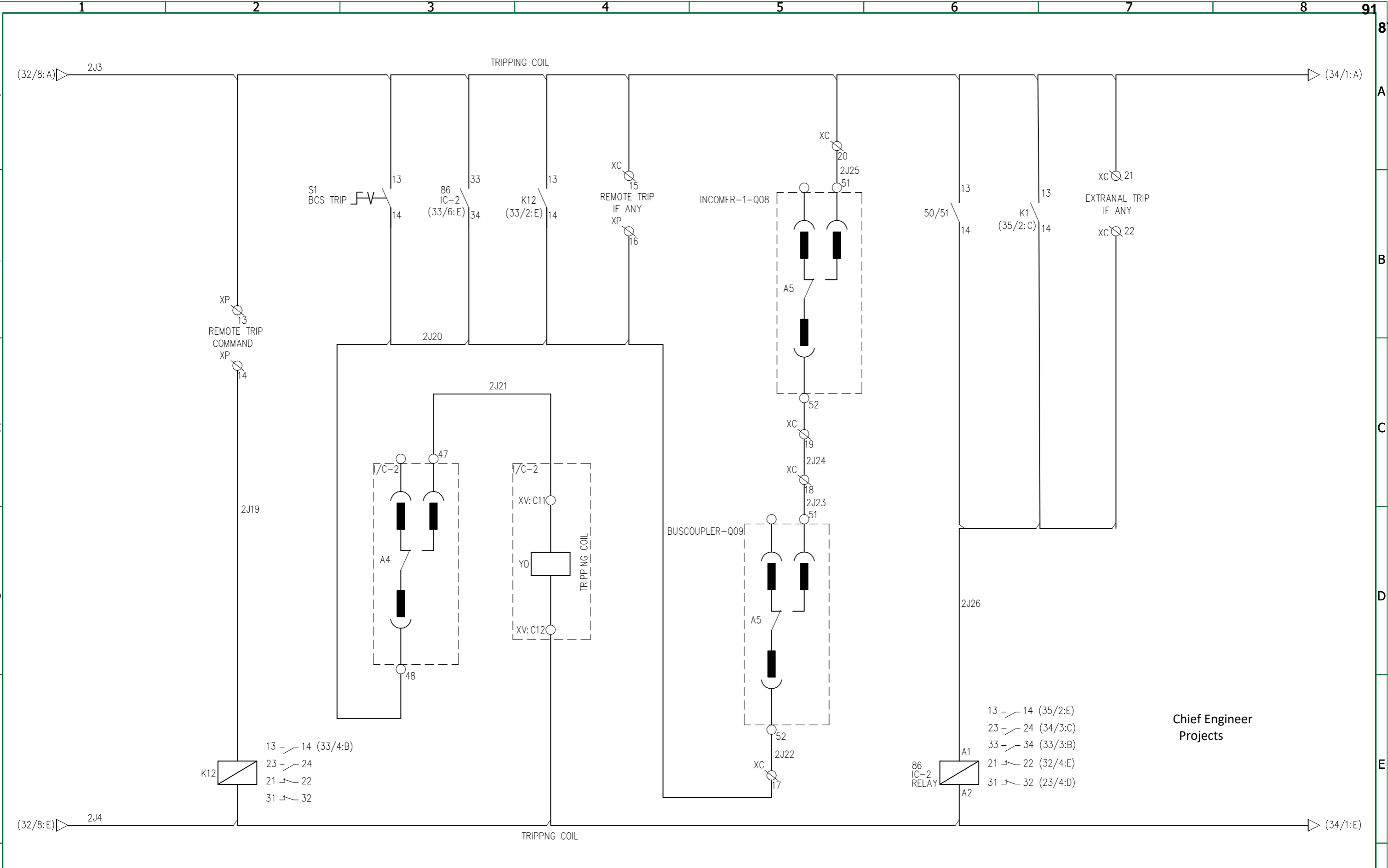
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TITLE	415V AC MAIN BOARD	
	PAGE TYPE	INCOMER-2 CLOSING CIRCUIT

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
DRAWING No.		33 OF 66	
GSS-23-24-024ACMB	REV.	R6	

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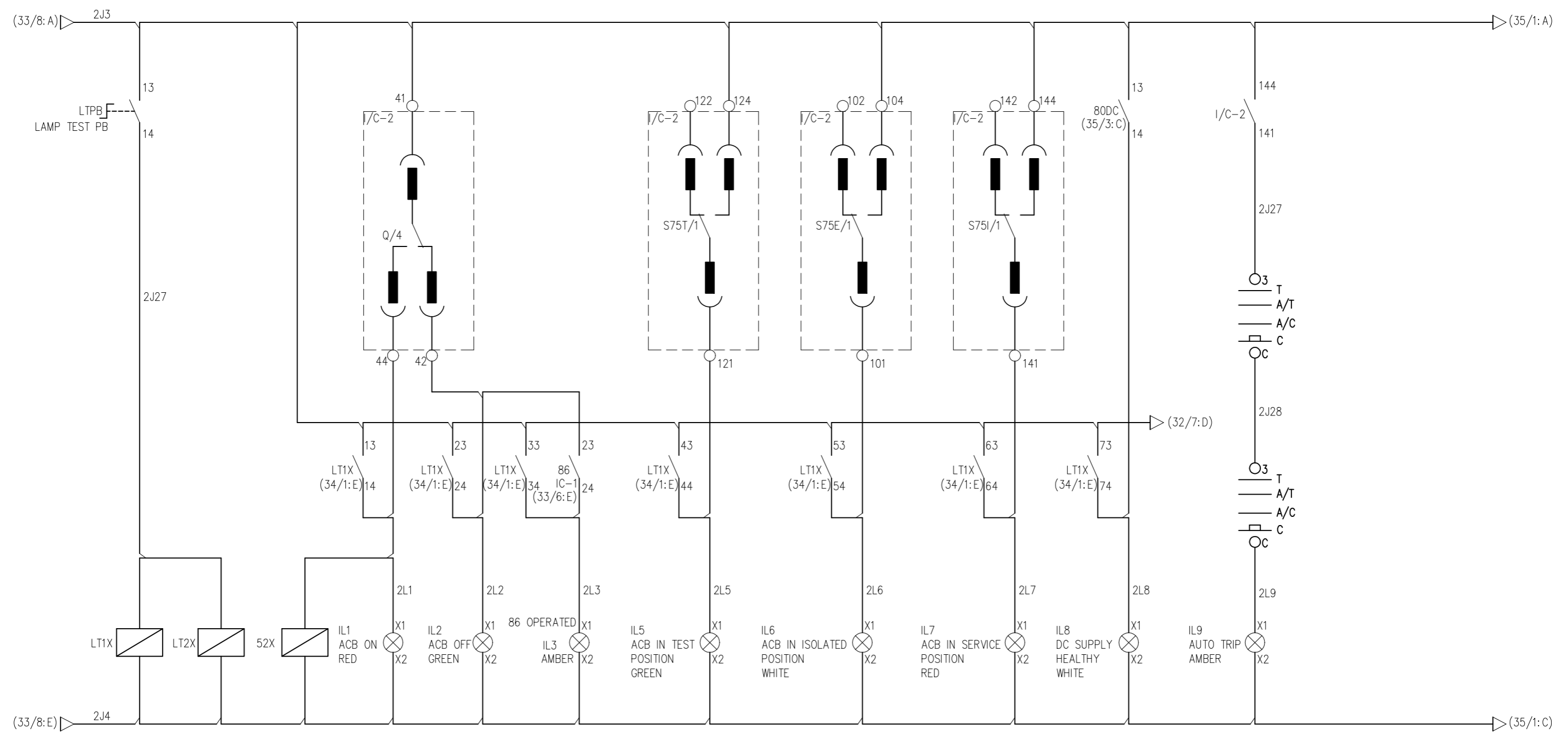
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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			APPD	JR	SHEET NO. 34 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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- 13 - 14 (34/2:C) 13 - 14 (32/7:D) 13 - 14 (35/7:E)
- 23 - 24 (34/3:C) 23 - 24 (35/2:E)
- 33 - 34 (34/3:C) 33 - 34 (35/7:E)
- 43 - 44 (34/4:C) 21 - 22 (35/7:E)
- 53 - 54 (34/5:C)
- 63 - 64 (34/5:C)
- 73 - 74 (34/6:C)
- 83 - 84

Chief Engineer
Projects

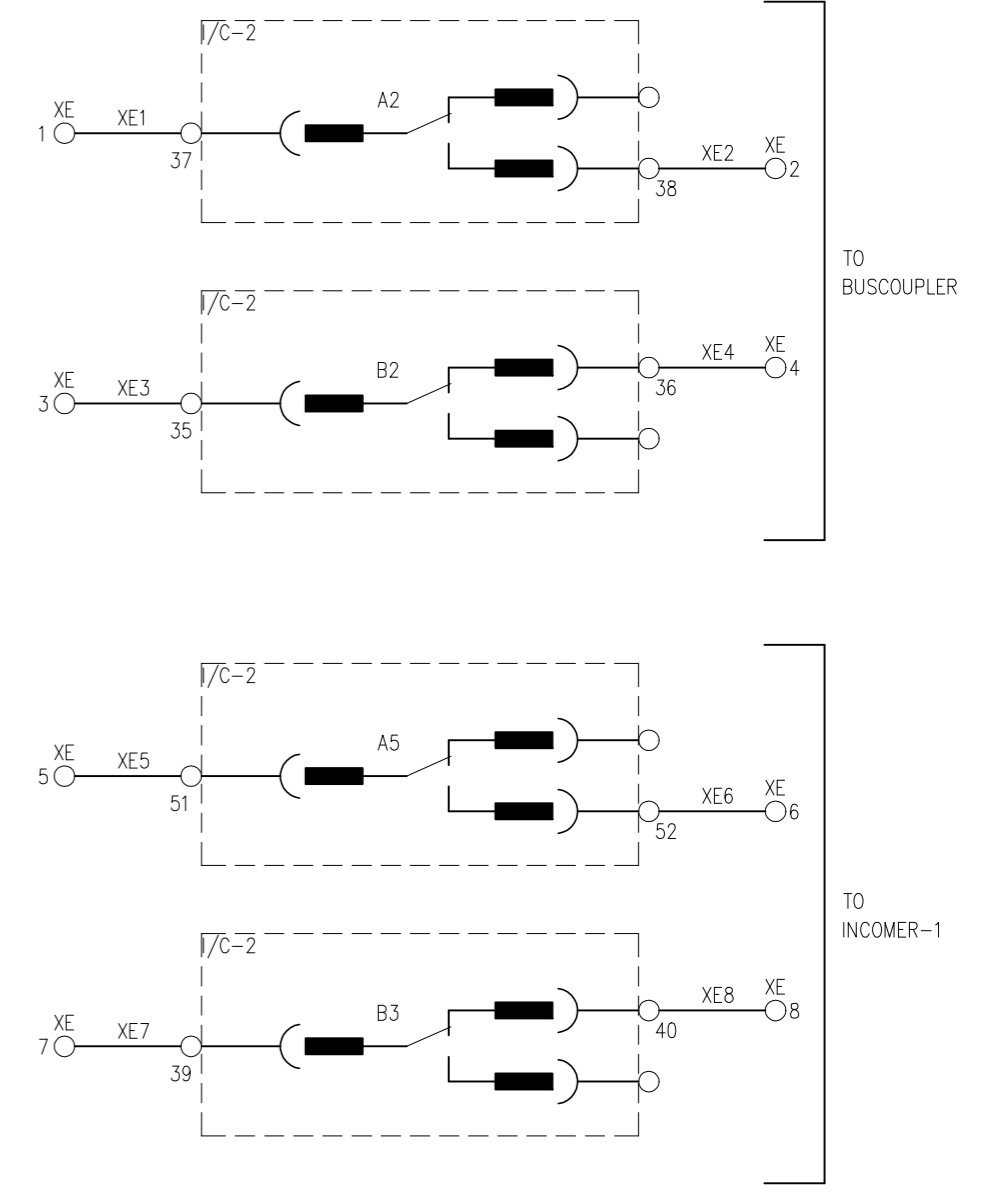
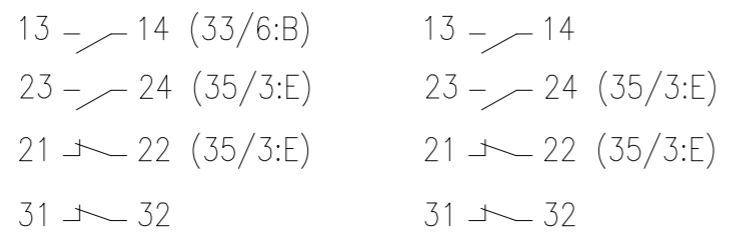
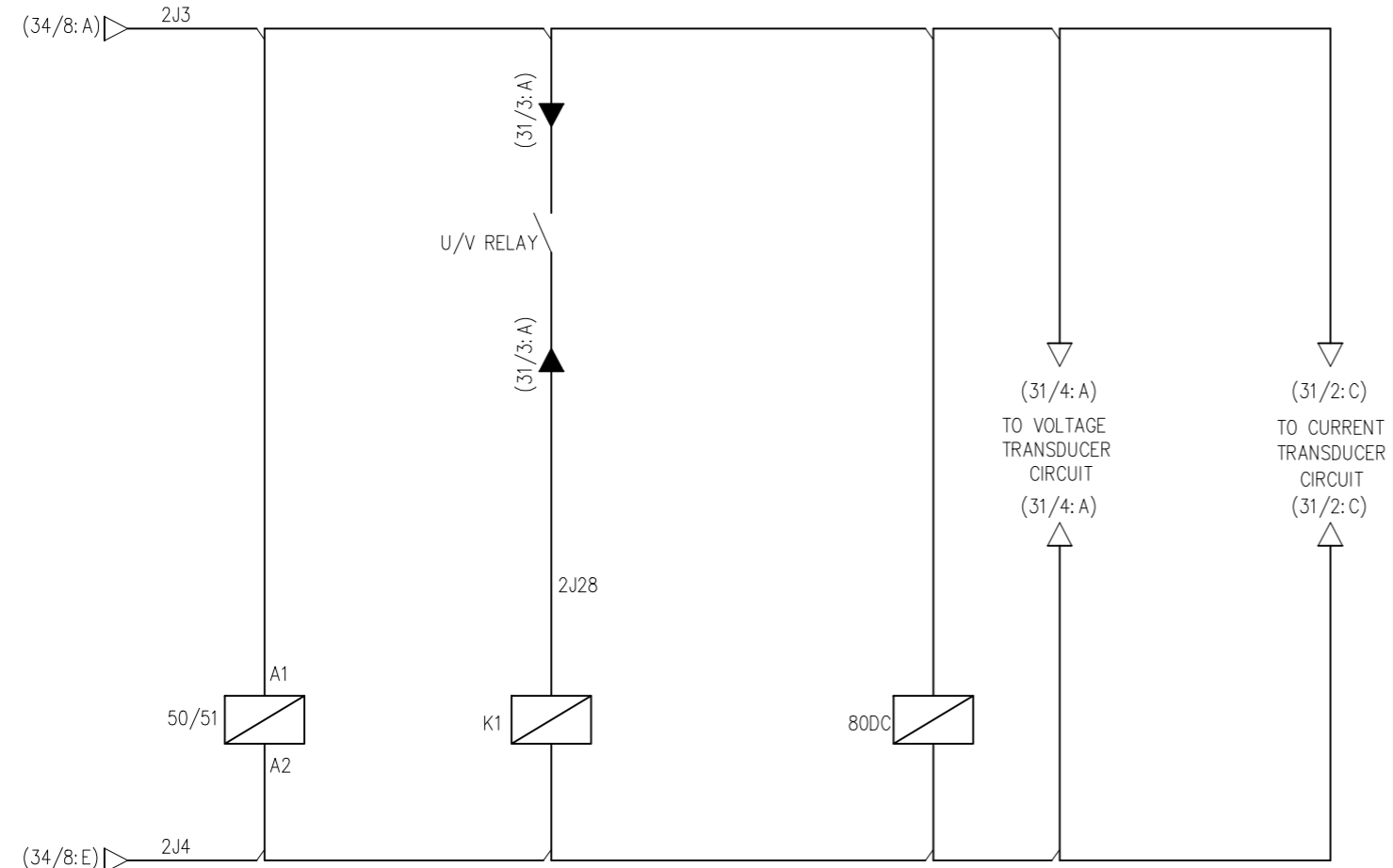
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
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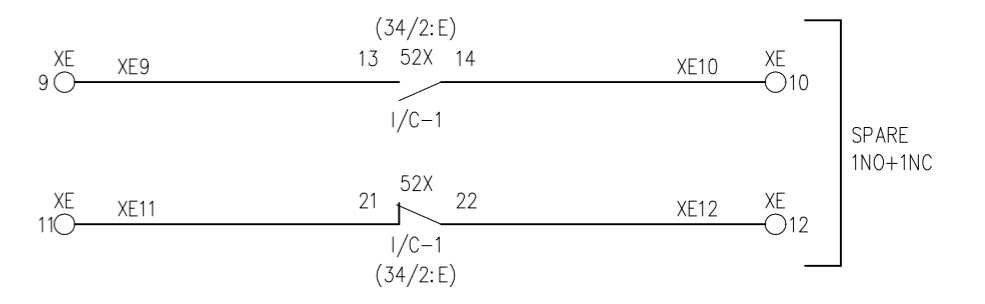
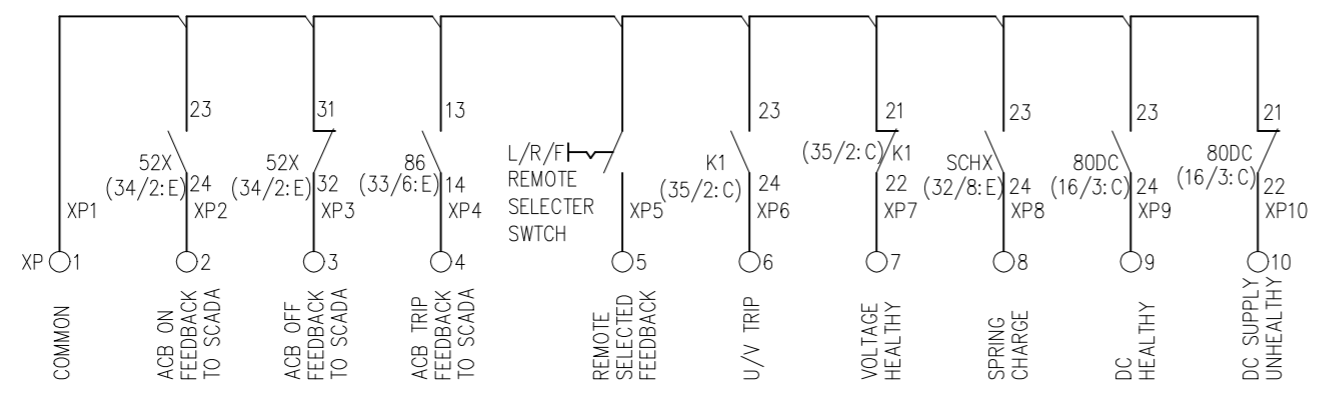


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				REV.	R6		

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Chief Engineer
Projects



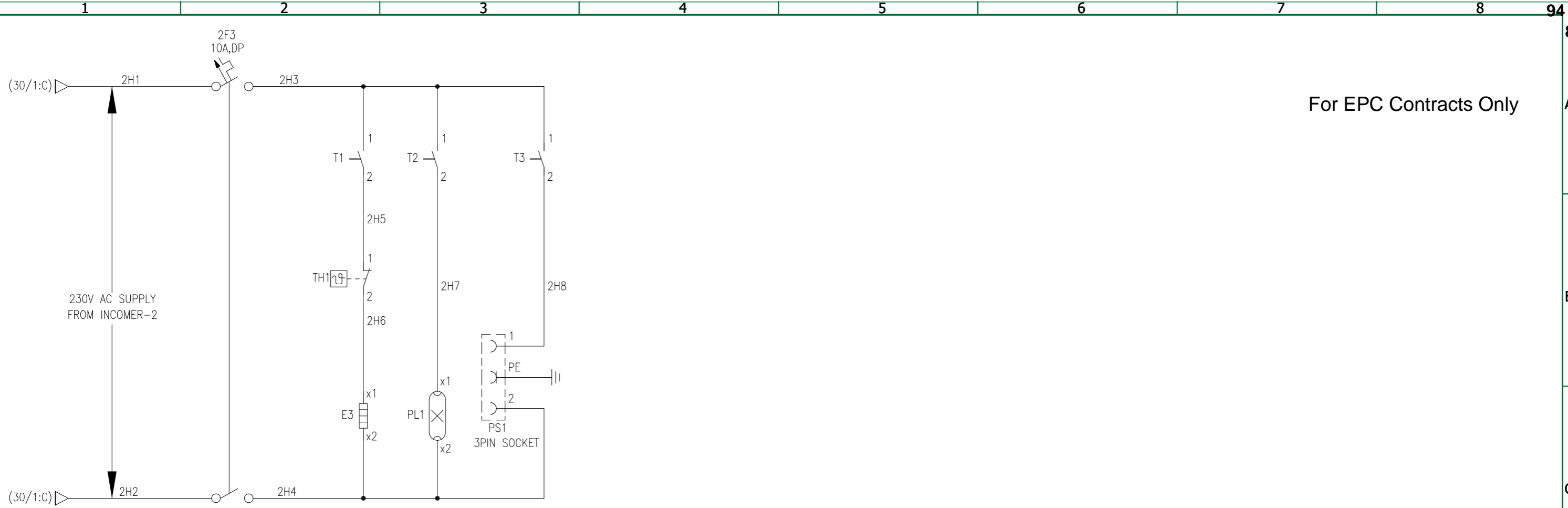
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA
	PAGE TYPE	INCOMER-2 INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
				APPD	JR	SHEET NO.	
				DRAWING No.		36	OF 66
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
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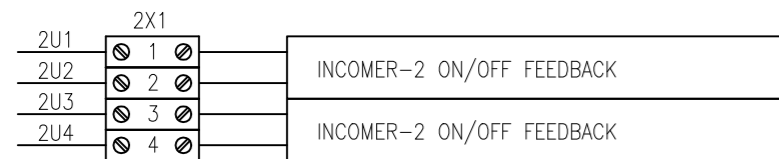
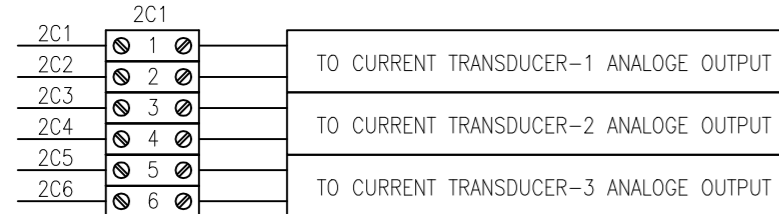
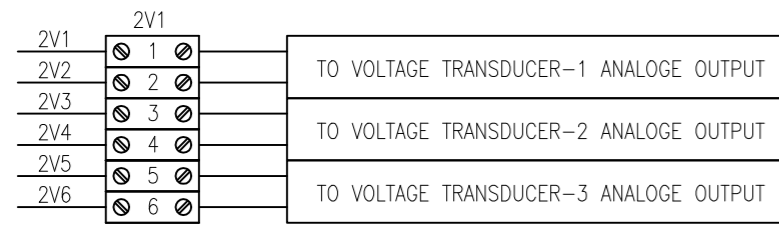
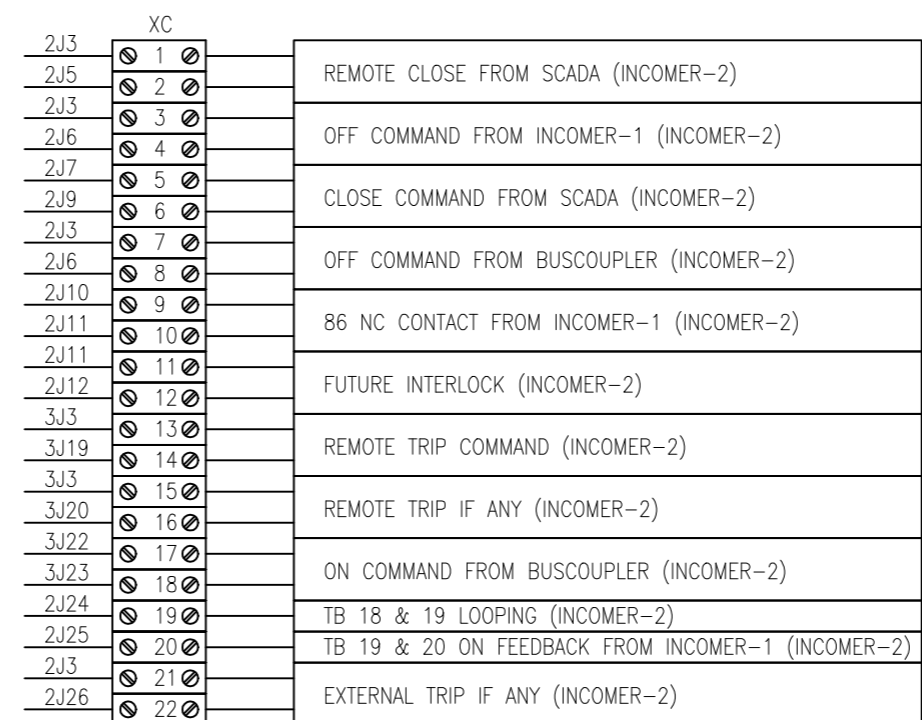
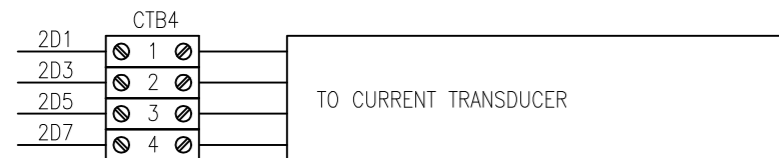
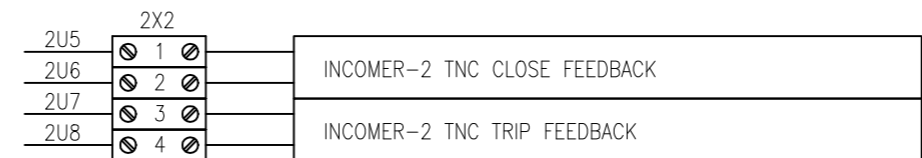
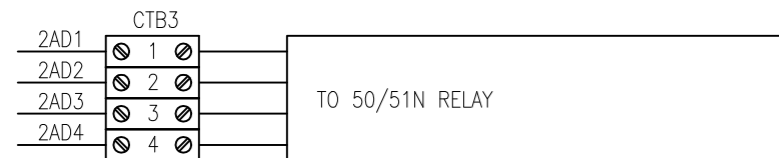


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	PAGE TYPE	INC	APPD	JR	SHEET NO. 37 OF 66	
			DRAWING No.	GSS-23-24-024ACMB	REV.	R6

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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

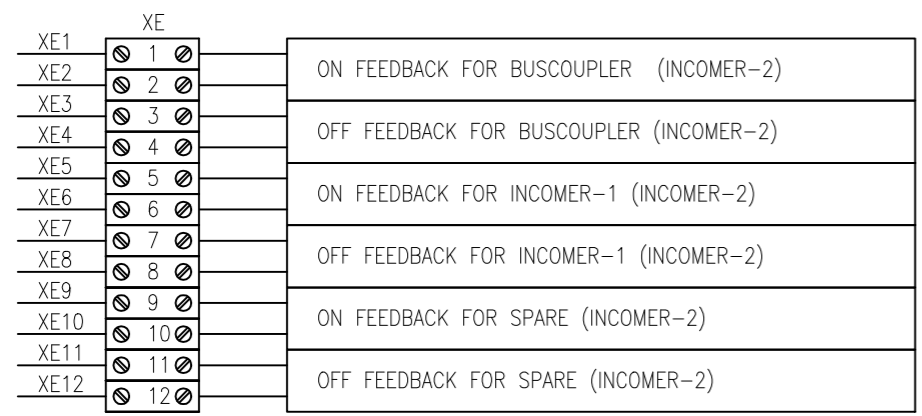
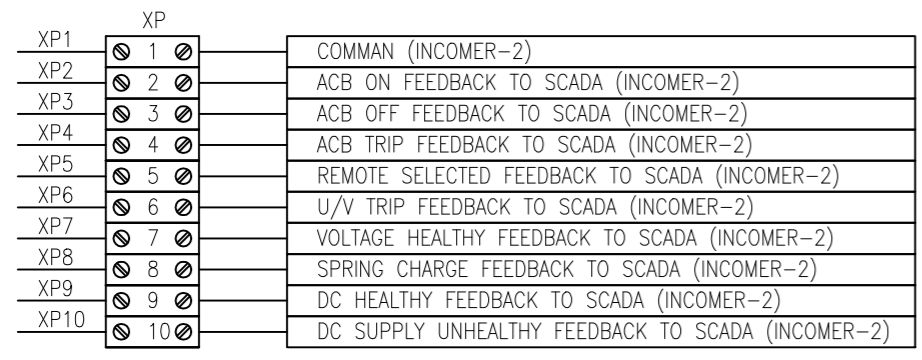
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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	PAGE TYPE		APPD	JR	SHEET NO. 38 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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TERMINAL DIAGRAM



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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
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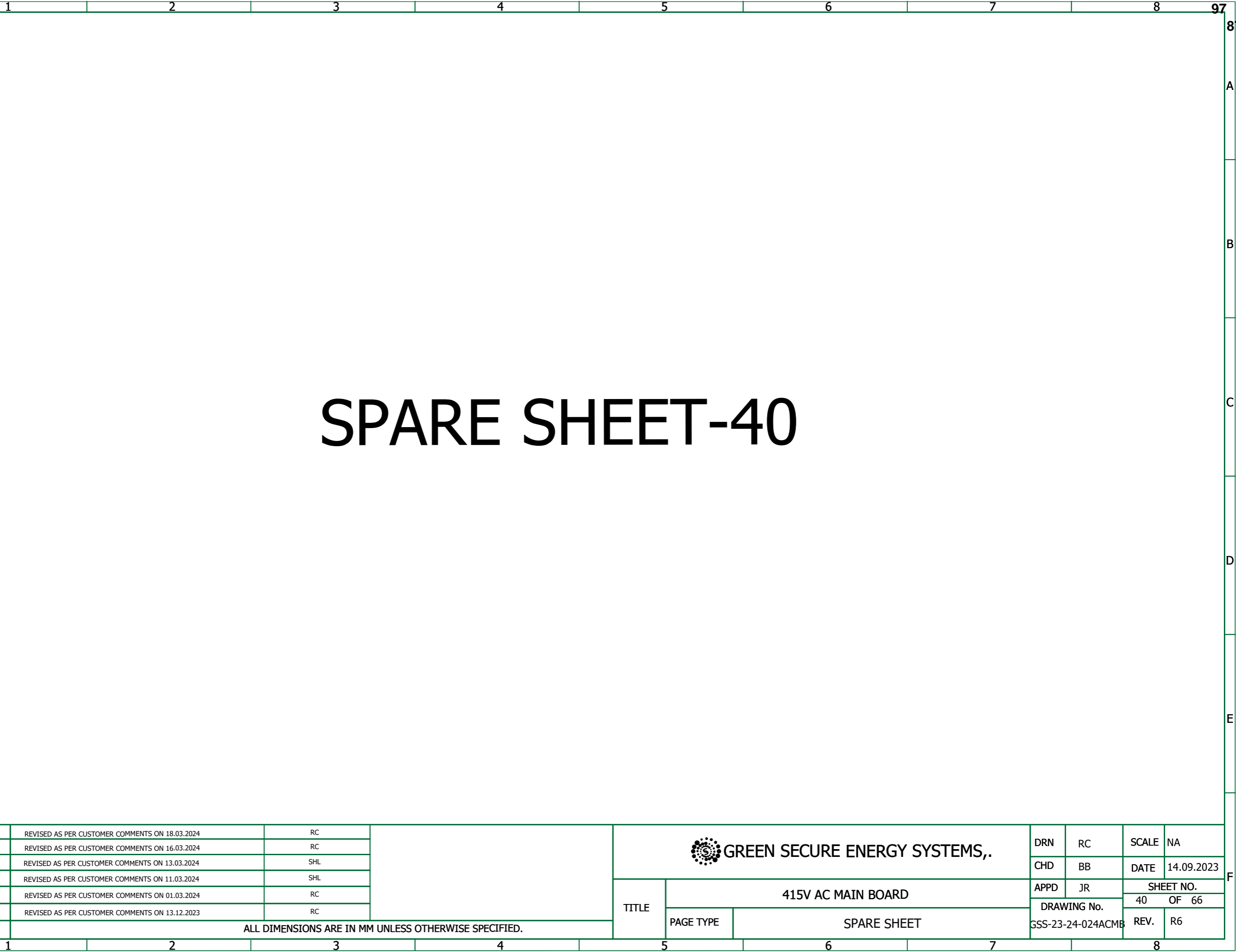


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			APPD	JR	SHEET NO.	
			DRAWING No.		39 OF 66	
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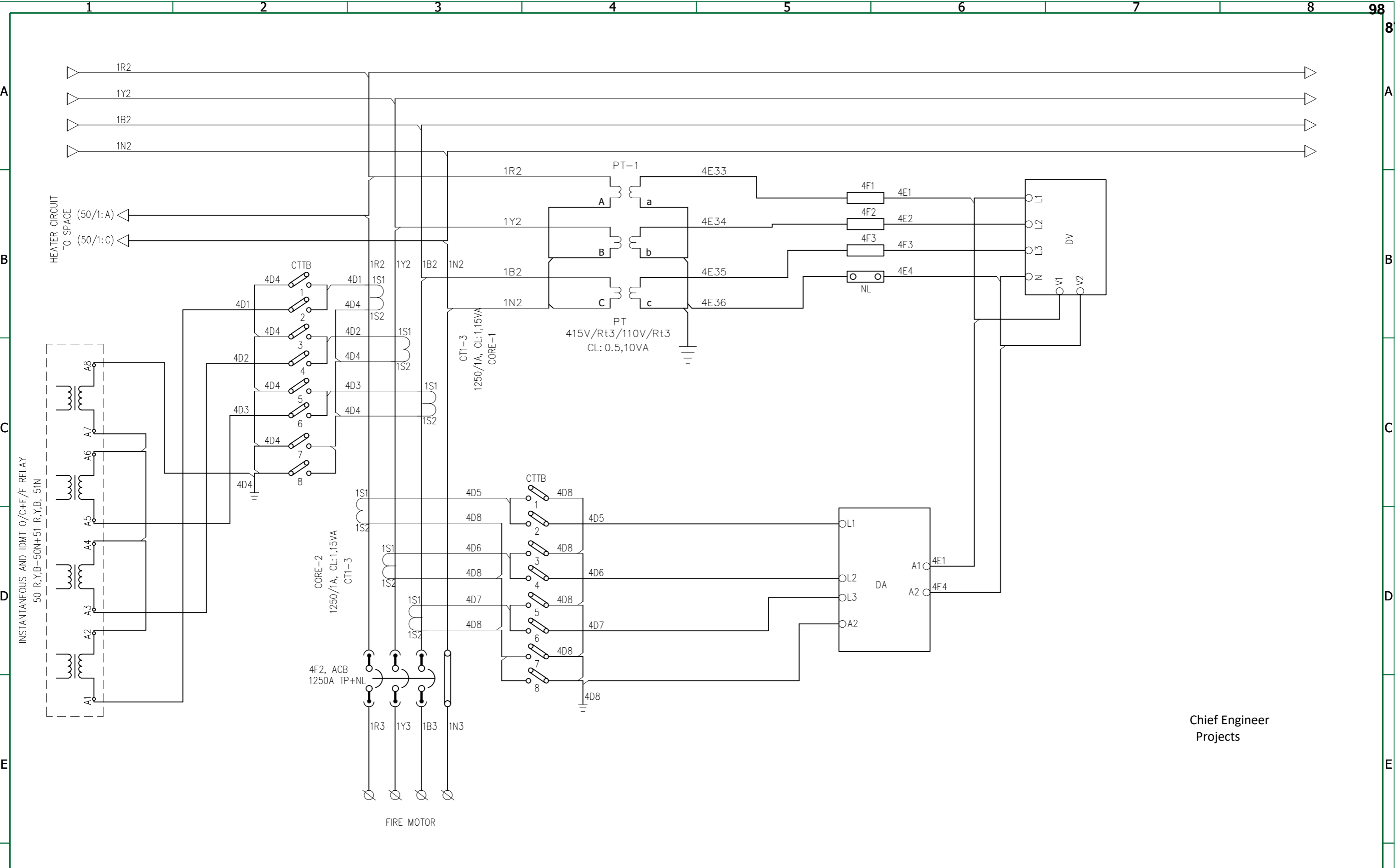
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R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL				40 OF 66	
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC		DRAWING No.		REV.	R6
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				PAGE TYPE	SPARE SHEET			



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Chief Engineer
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R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA	
	PAGE TYPE	TYPICAL POWER & CONTROL SCHEMES OUTGOINGS			CHD	BB	DATE	14.09.2023
		DRAWING No. GSS-23-24-024ACMB			APPD	JR	SHEET NO.	
		REV. R6					41 OF 66	


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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
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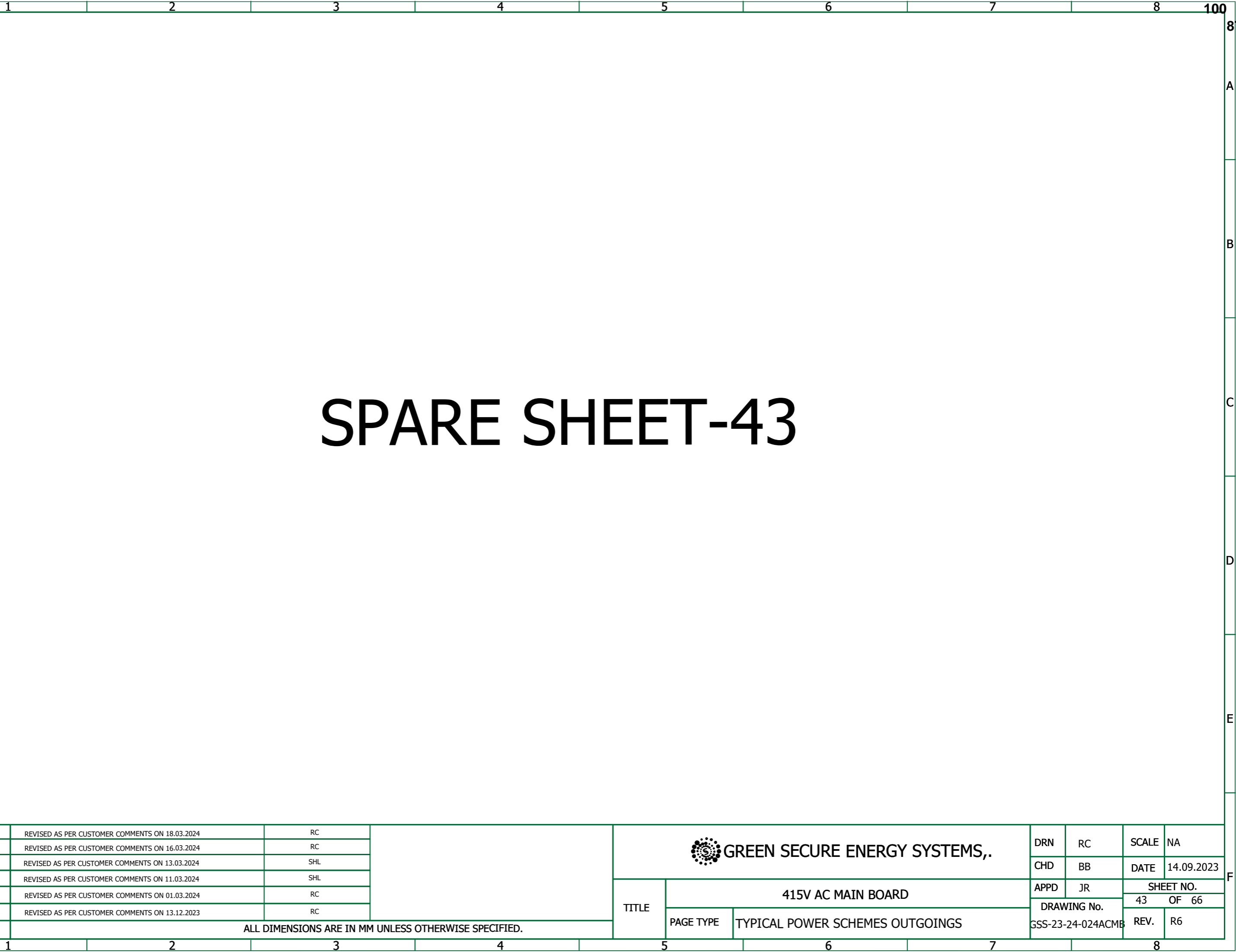
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TITLE	415V AC MAIN BOARD			APPD	JR	SHEET NO.
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				GSS-23-24-024ACMB	REV.	R6

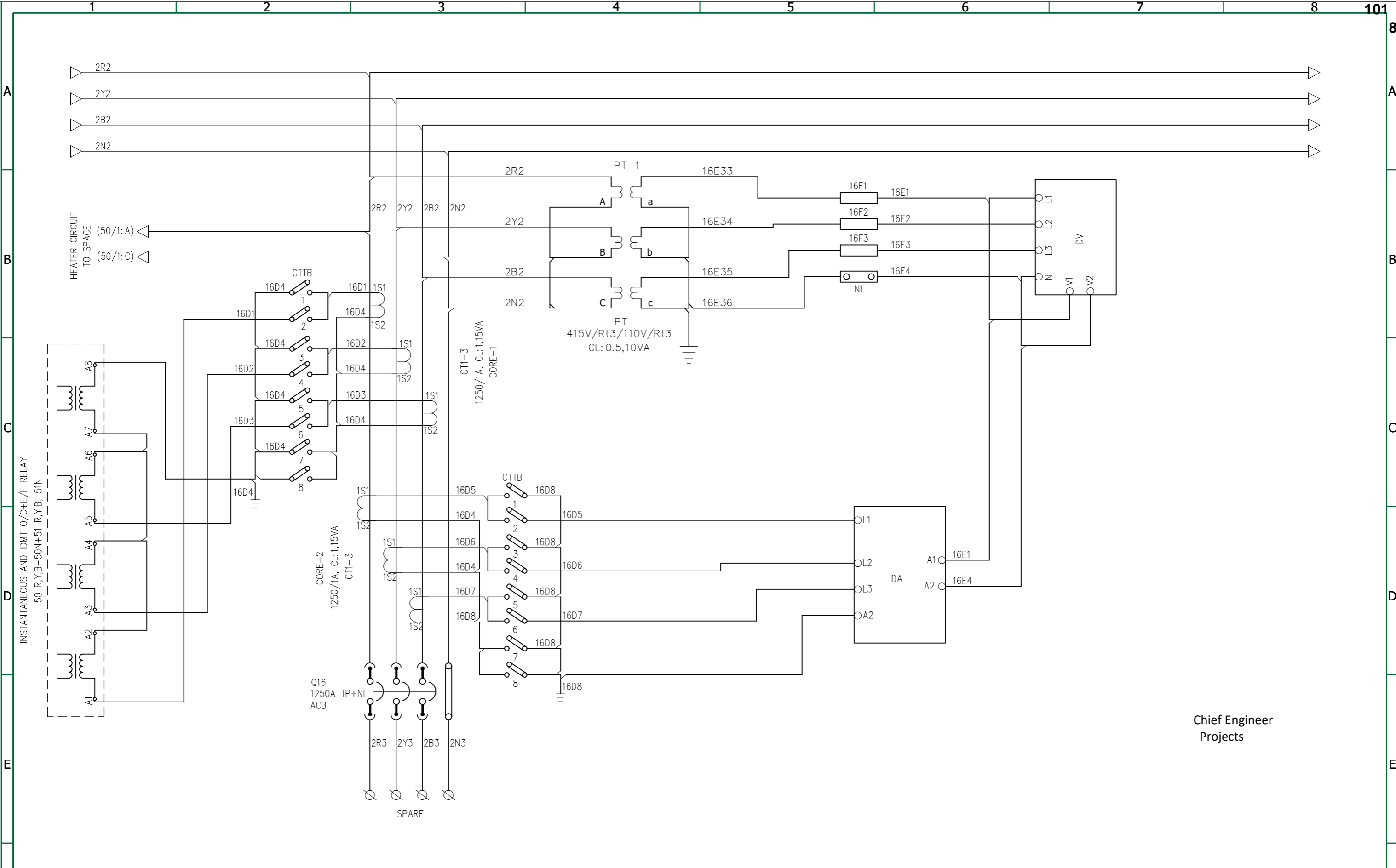
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SPARE SHEET-43

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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL		APPD	JR	SHEET NO.	
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL				43 OF 66	
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC		DRAWING No.		REV.	R6
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC		GSS-23-24-024ACMB			
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.				TITLE	415V AC MAIN BOARD			
				PAGE TYPE	TYPICAL POWER SCHEMES OUTGOINGS			



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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
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			DRAWING No.		44	OF 66
PAGE TYPE	TYPICAL POWER & CONTROL SCHEMES OUTGOINGS		GSS-23-24-024ACMB	REV.	R6	

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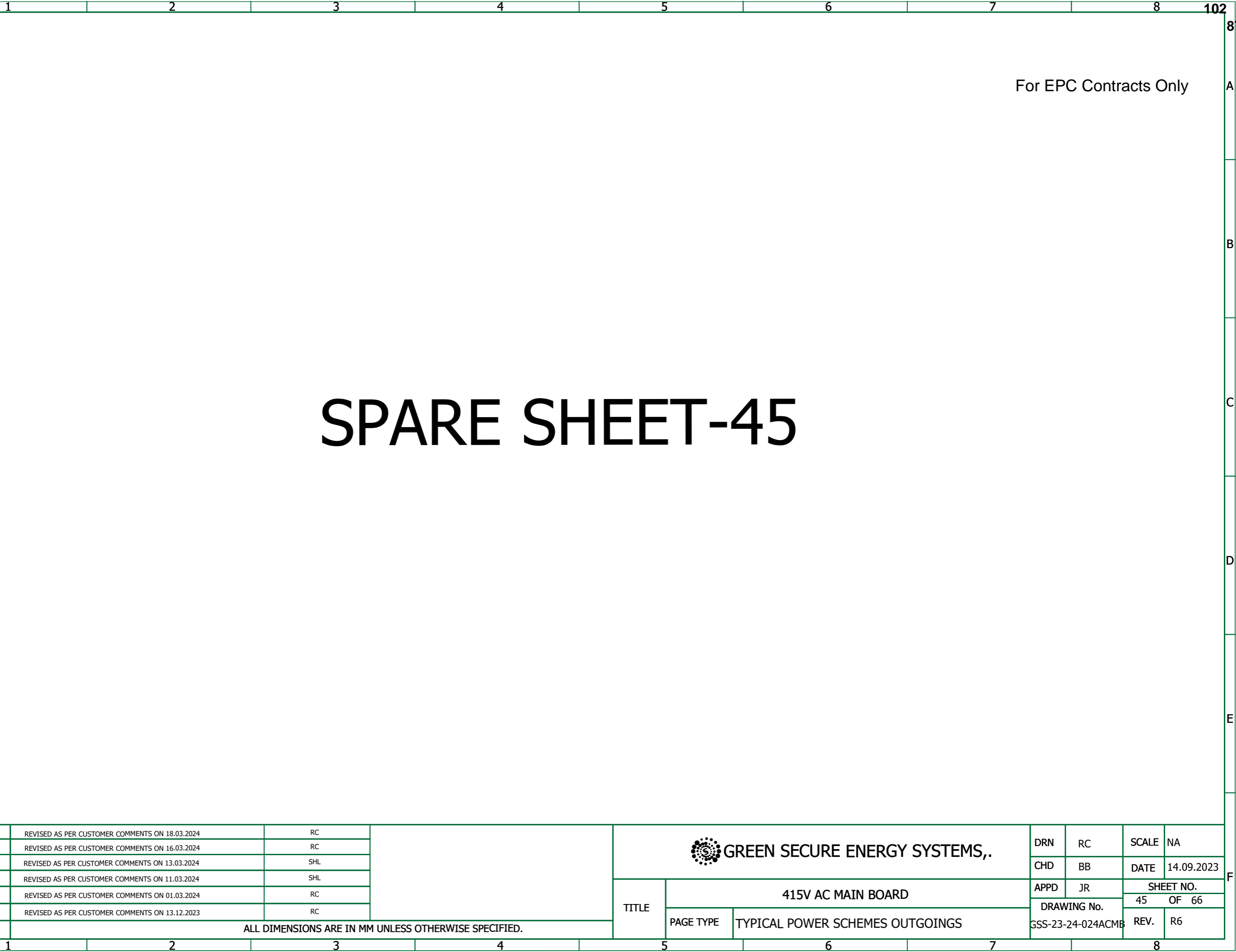
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SPARE SHEET-45

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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

 GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA	
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TITLE	415V AC MAIN BOARD			APPD	JR	SHEET NO.
	TYPICAL POWER SCHEMES OUTGOINGS			DRAWING No.		45 OF 66
PAGE TYPE	TYPICAL POWER SCHEMES OUTGOINGS			GSS-23-24-024ACMB	REV.	R6

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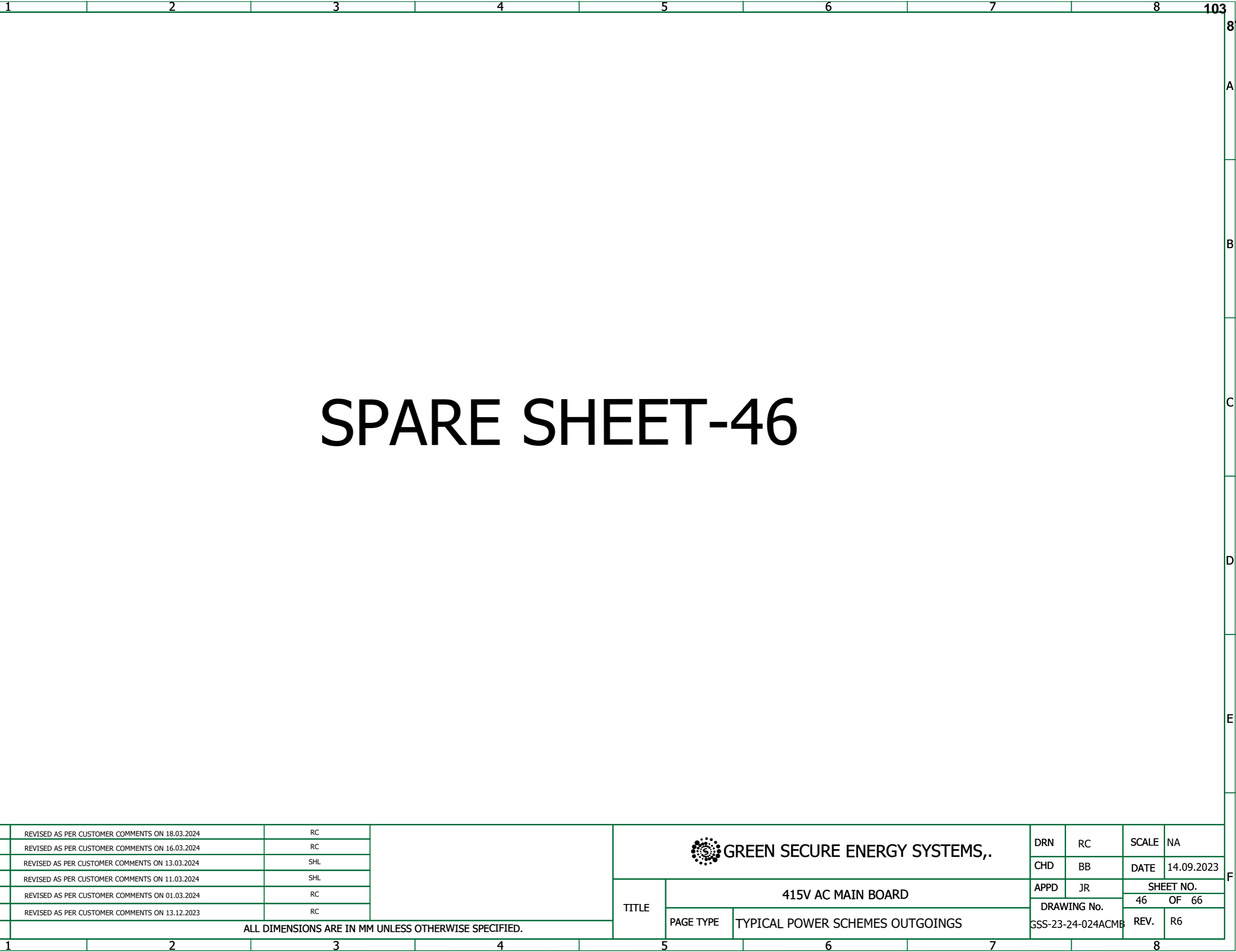
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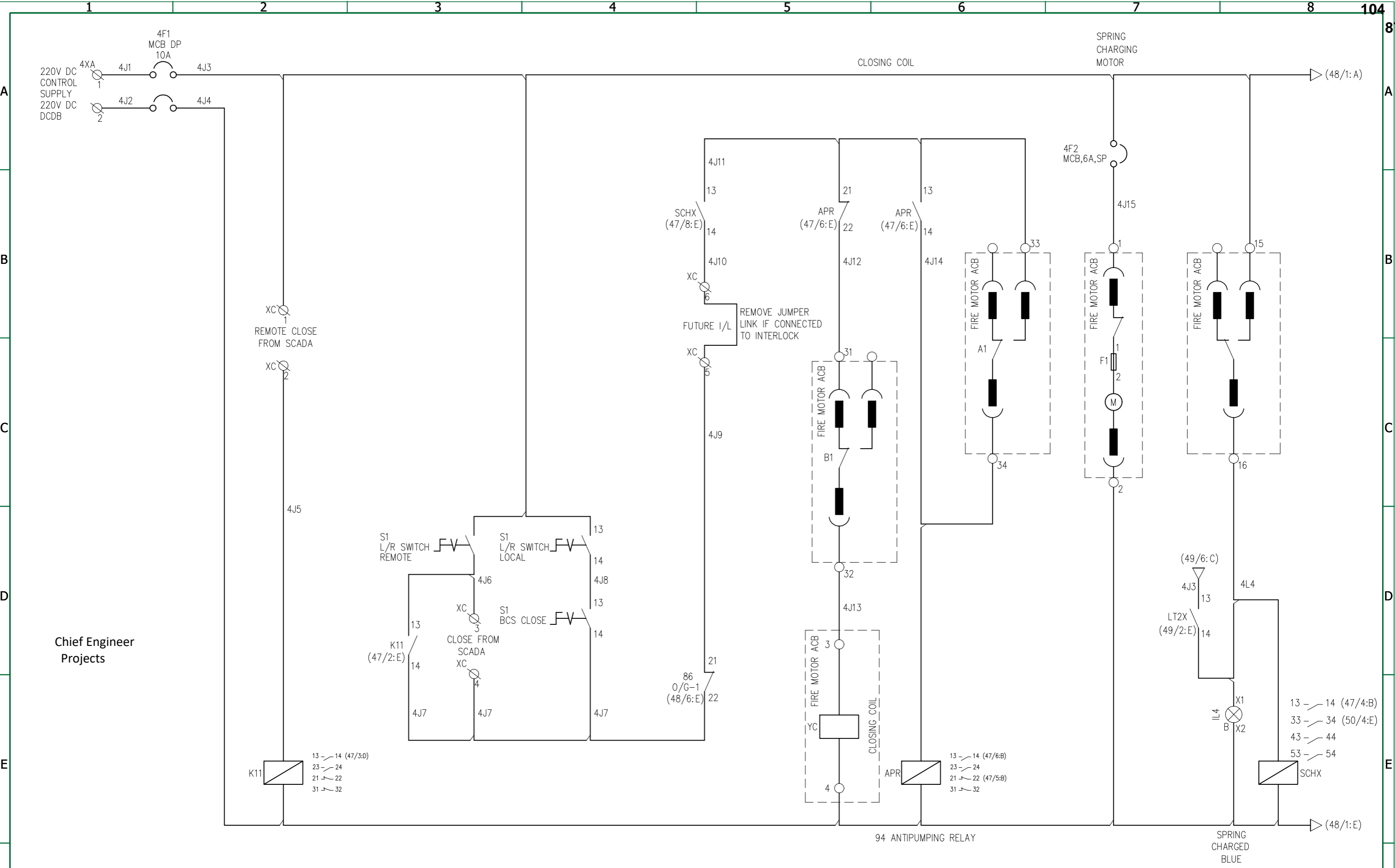
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SPARE SHEET-46

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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL		APPD	JR	SHEET NO.	
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL				46 OF 66	
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC				DRAWING No.	
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC				GSS-23-24-024ACMB	REV. R6
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.				TITLE	415V AC MAIN BOARD			
				PAGE TYPE	TYPICAL POWER SCHEMES OUTGOINGS			



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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

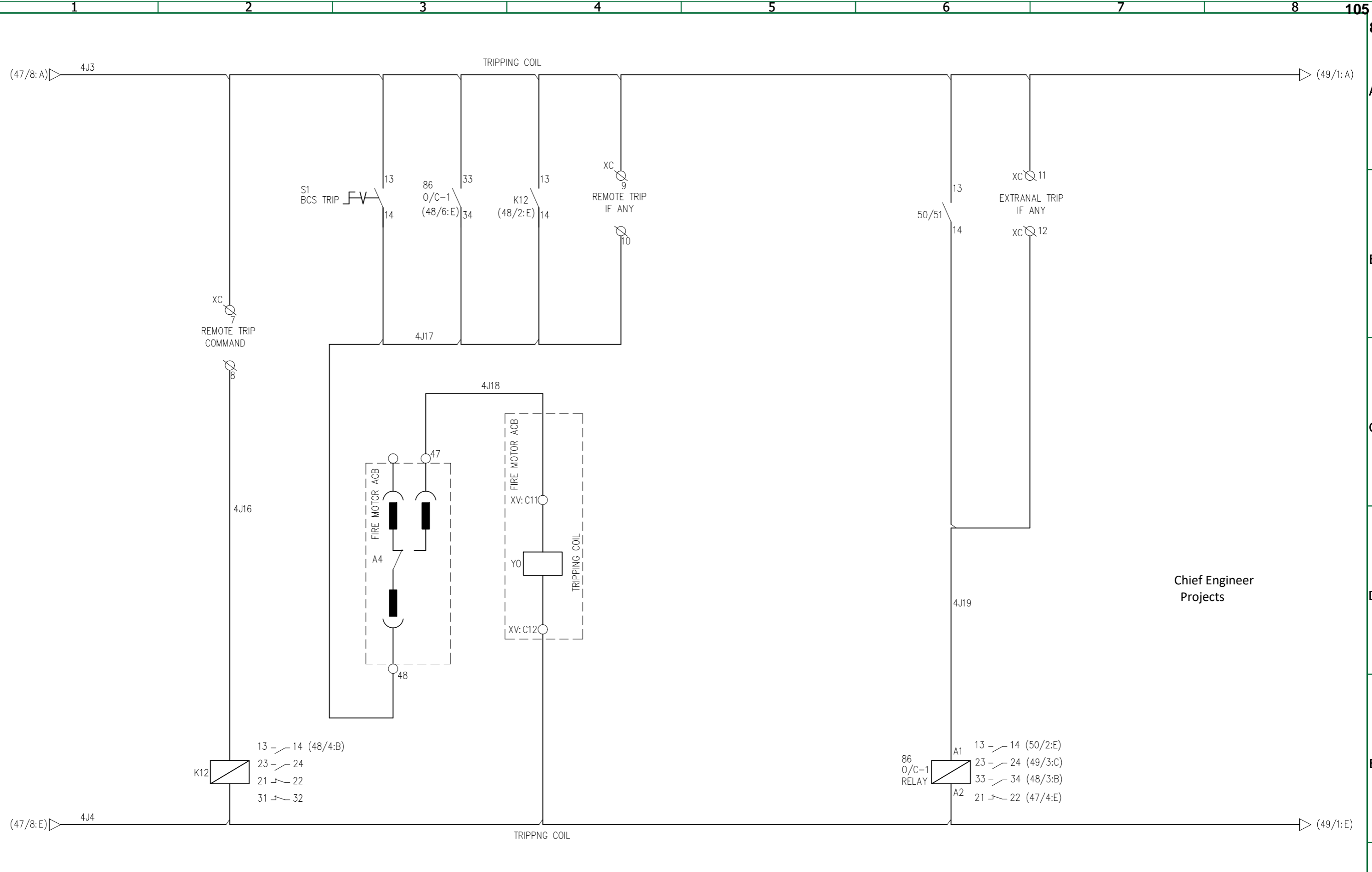
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TITLE	415V AC MAIN BOARD	
	PAGE TYPE	FIRE MOTOR CLOSING CIRCUIT

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
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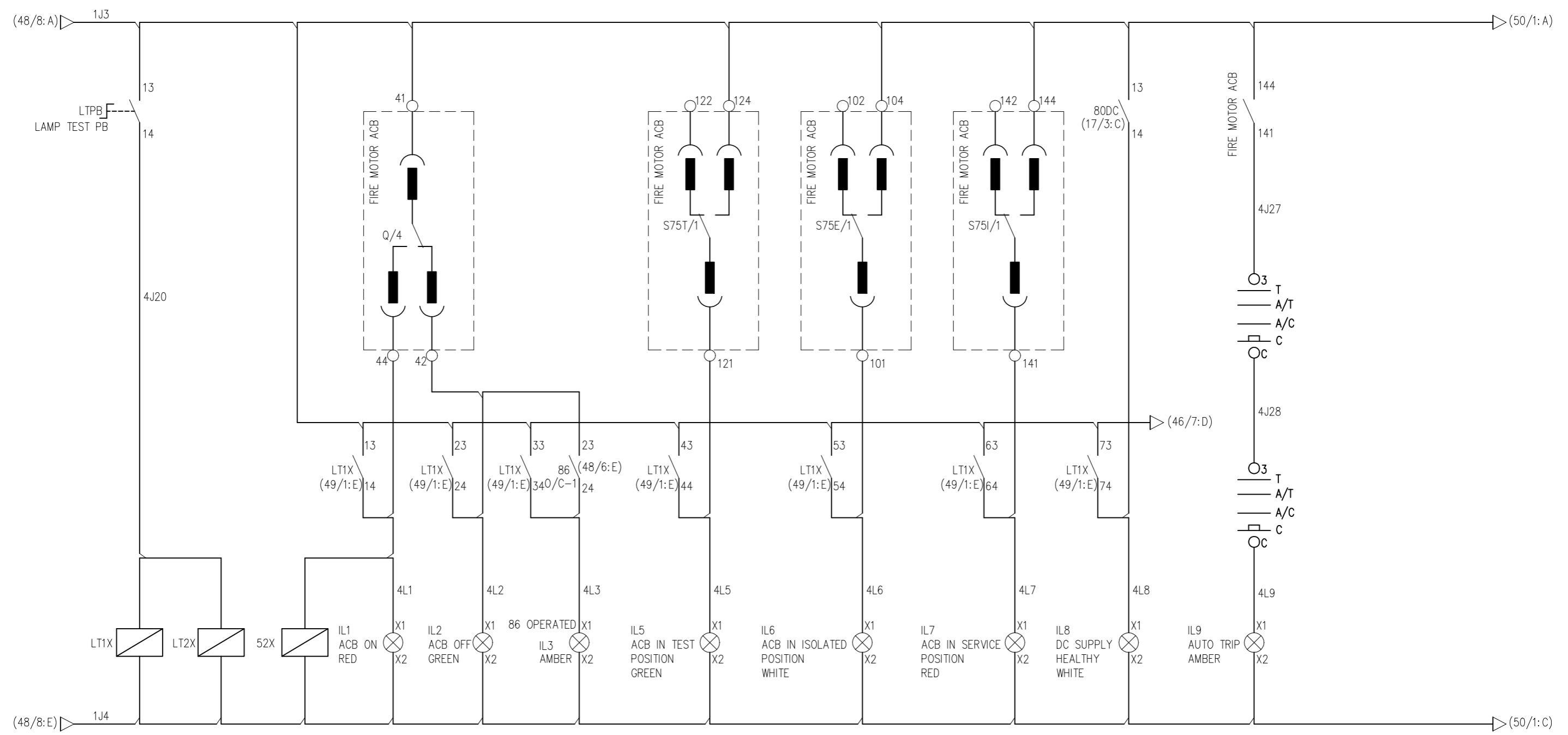
R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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			APPD	JR	SHEET NO. 48 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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- 13 - 14 (49/2:C) 13 - 14 (47/7:D) 13 - 14 (50/7:E)
- 23 - 24 (49/3:C) 23 - 24 (50/2:E)
- 33 - 34 (49/3:C) 33 - 34 (50/7:E)
- 43 - 44 (49/4:C) 21 - 22 (50/7:E)
- 53 - 54 (49/5:C)
- 63 - 64 (49/5:C)
- 73 - 74 (49/6:C)
- 83 - 84

Chief Engineer
Projects

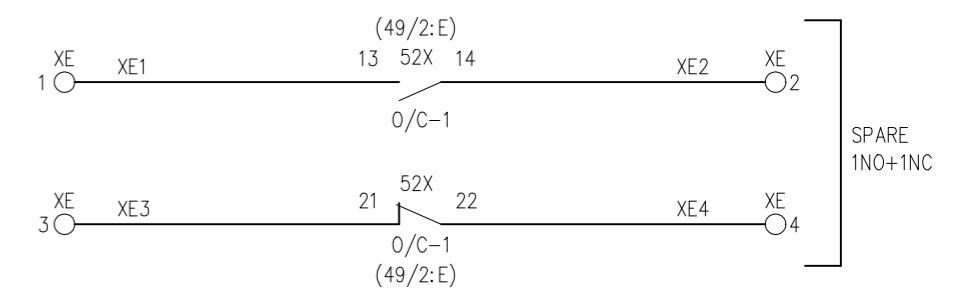
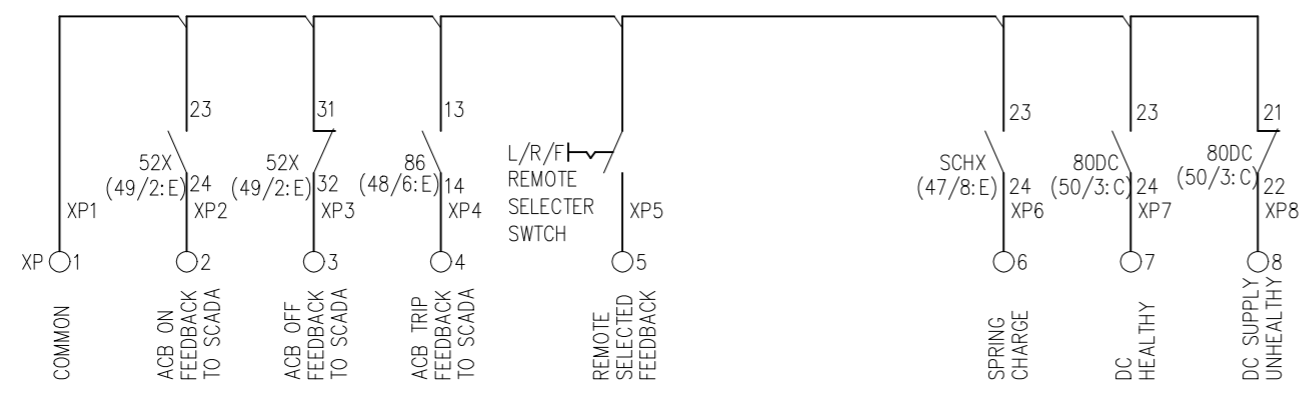
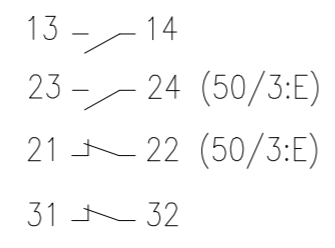
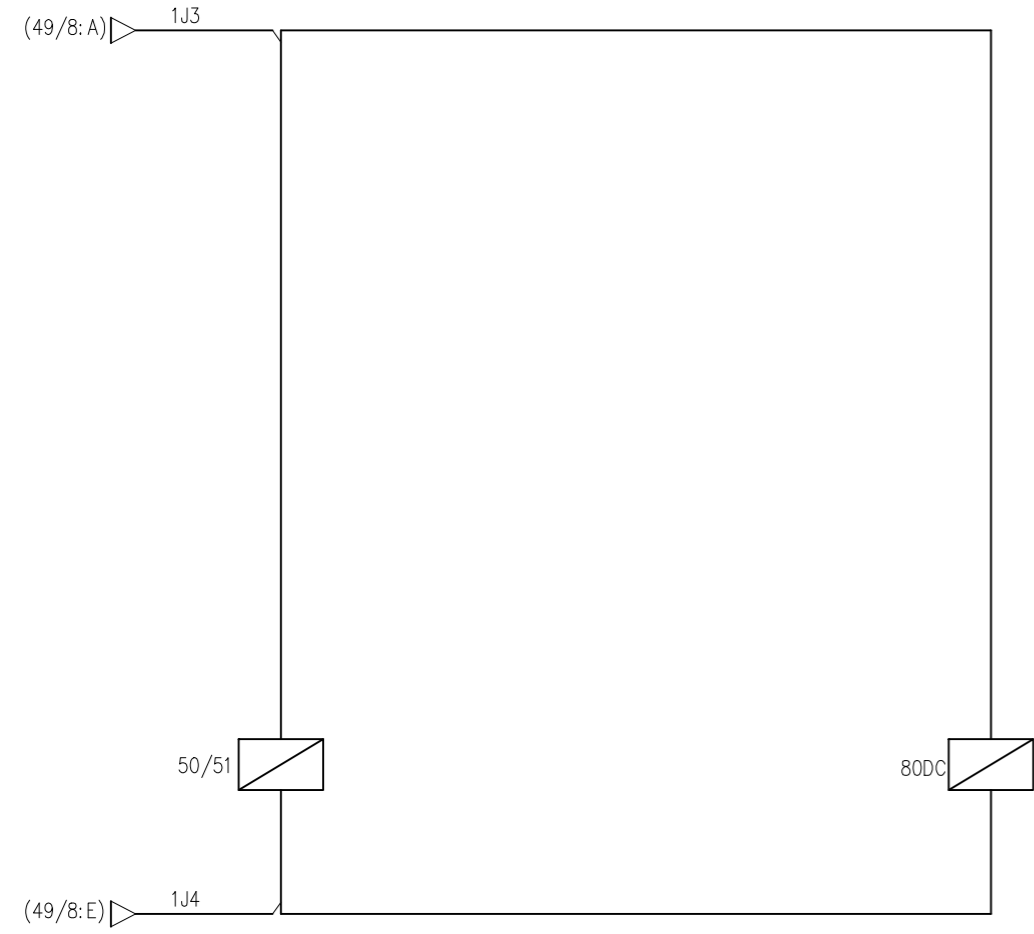
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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA
	PAGE TYPE	FIRE MOTOR INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
		DRAWING No. GSS-23-24-024ACMB		APPD	JR	SHEET NO.	
						49	OF 66
				REV.	R6		

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Chief Engineer
Projects

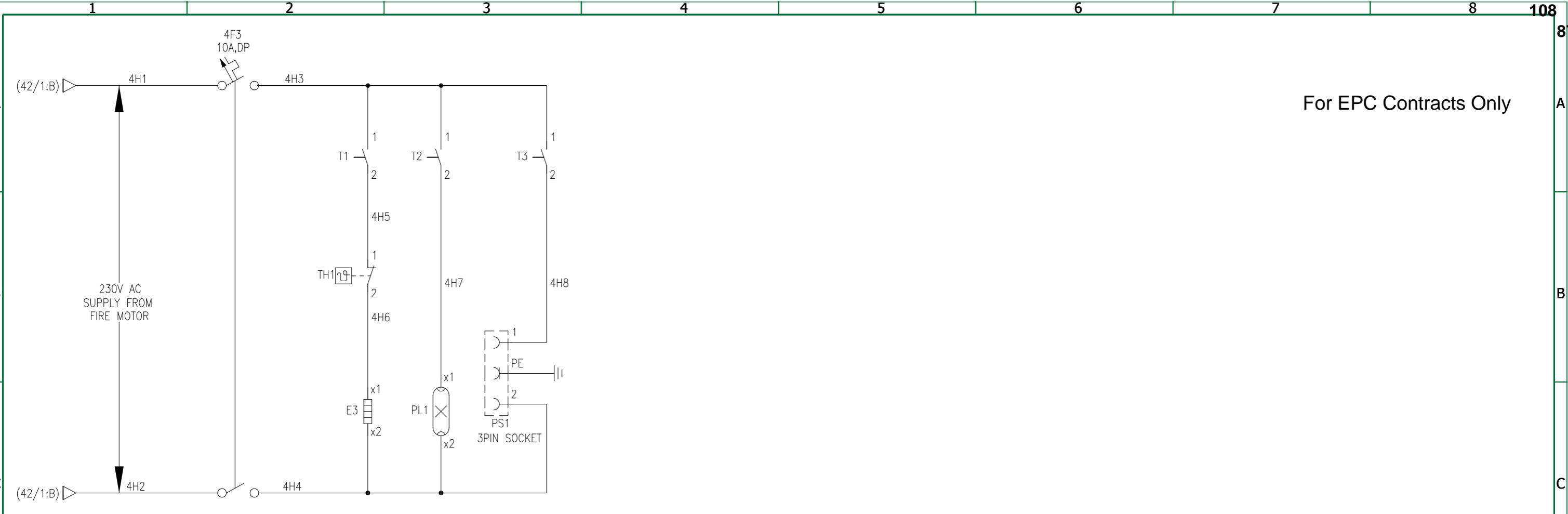
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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA
	PAGE TYPE	FIRE MOTOR INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
		DRAWING No. GSS-23-24-024ACMB		APPD	JR	SHEET NO.	
				REV.	R6		

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R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

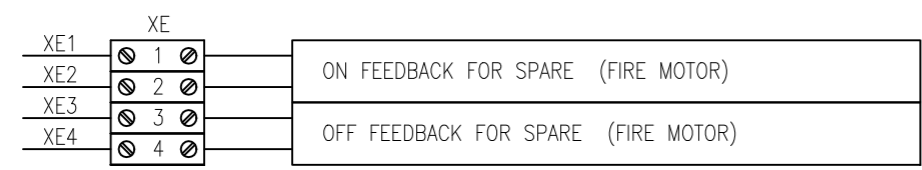
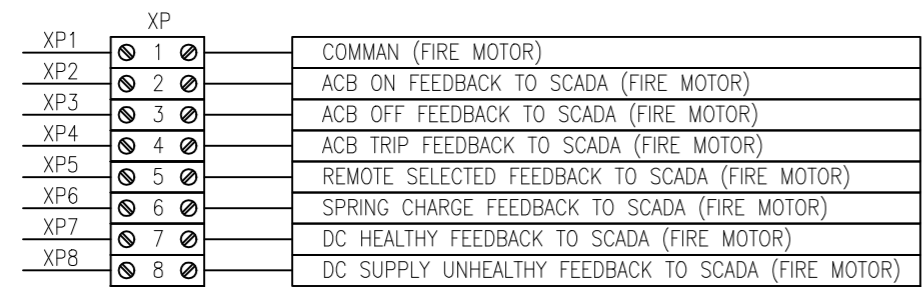
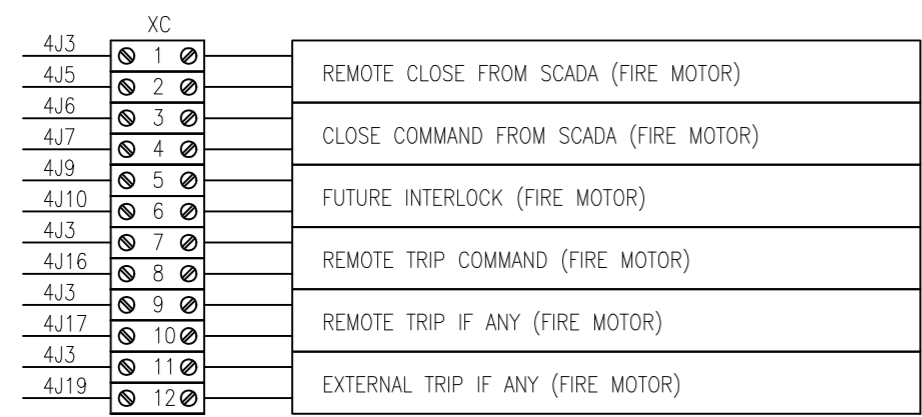
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	FIRE MOTOR SPACE HEATER CIRCUIT		CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO.	
			DRAWING No.		51	OF 66
		GSS-23-24-024ACMB		REV.	R6	

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TERMINAL DIAGRAM



Chief Engineer
Projects

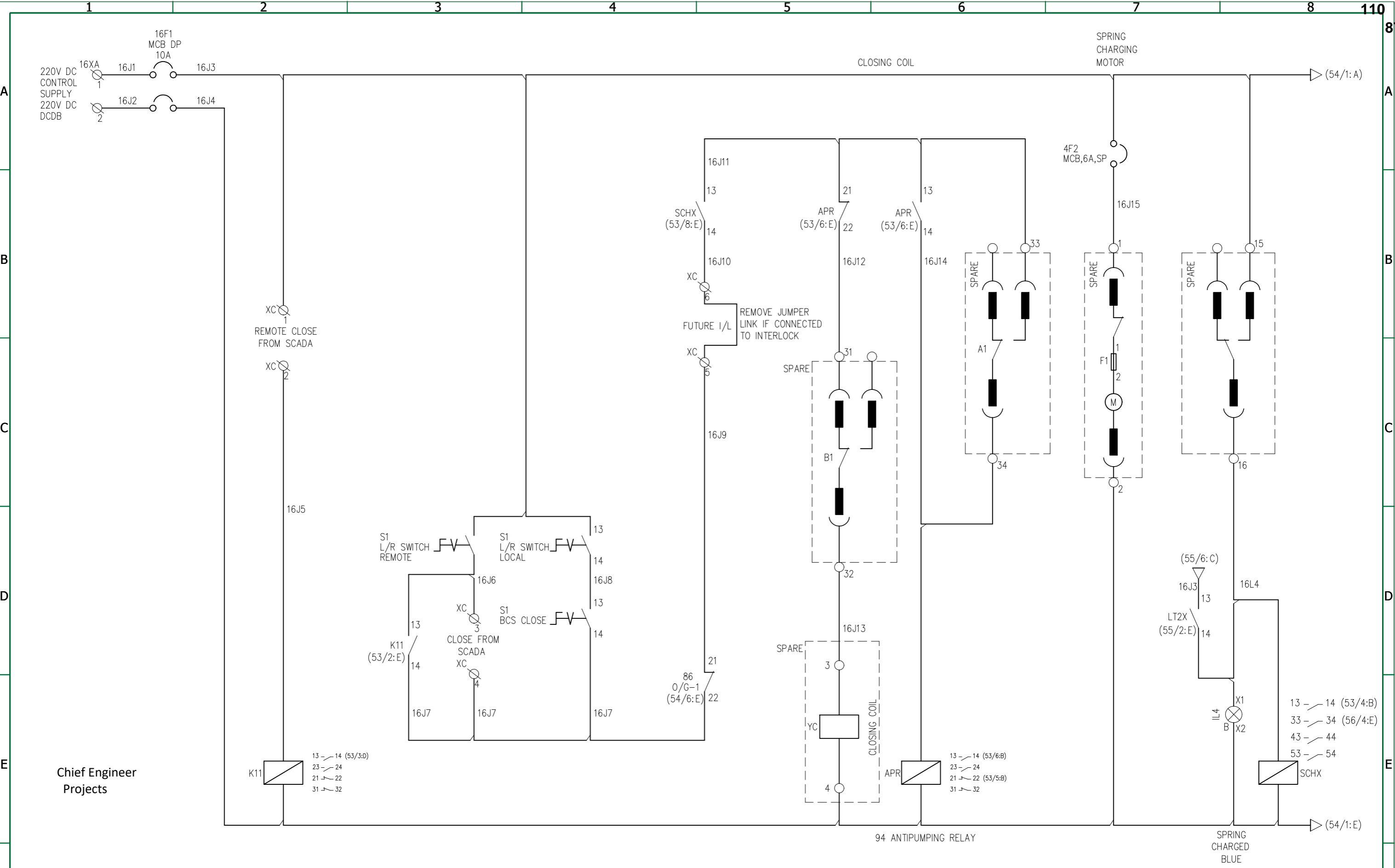
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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
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R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	FIRE MOTOR TERMINAL BLOCK DETAILS		CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO.	
			DRAWING No.		52	OF 66
		GSS-23-24-024ACMB		REV.	R6	

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R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

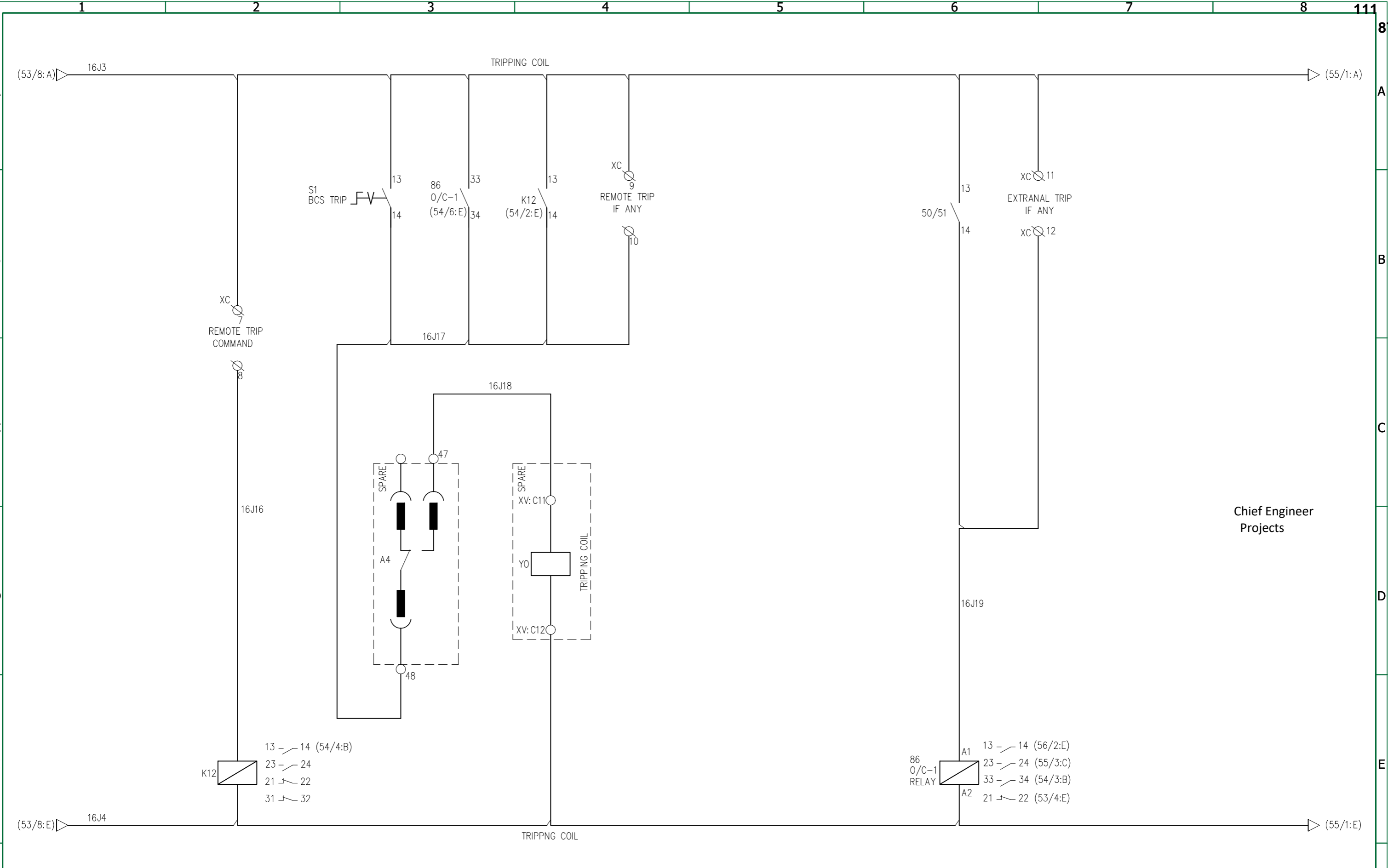
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TITLE	415V AC MAIN BOARD	
PAGE TYPE	SPARE OUTGOING CLOSING CIRCUIT	

DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
DRAWING No.		53 OF 66	
GSS-23-24-024ACMB	REV.	R6	

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Chief Engineer
Projects

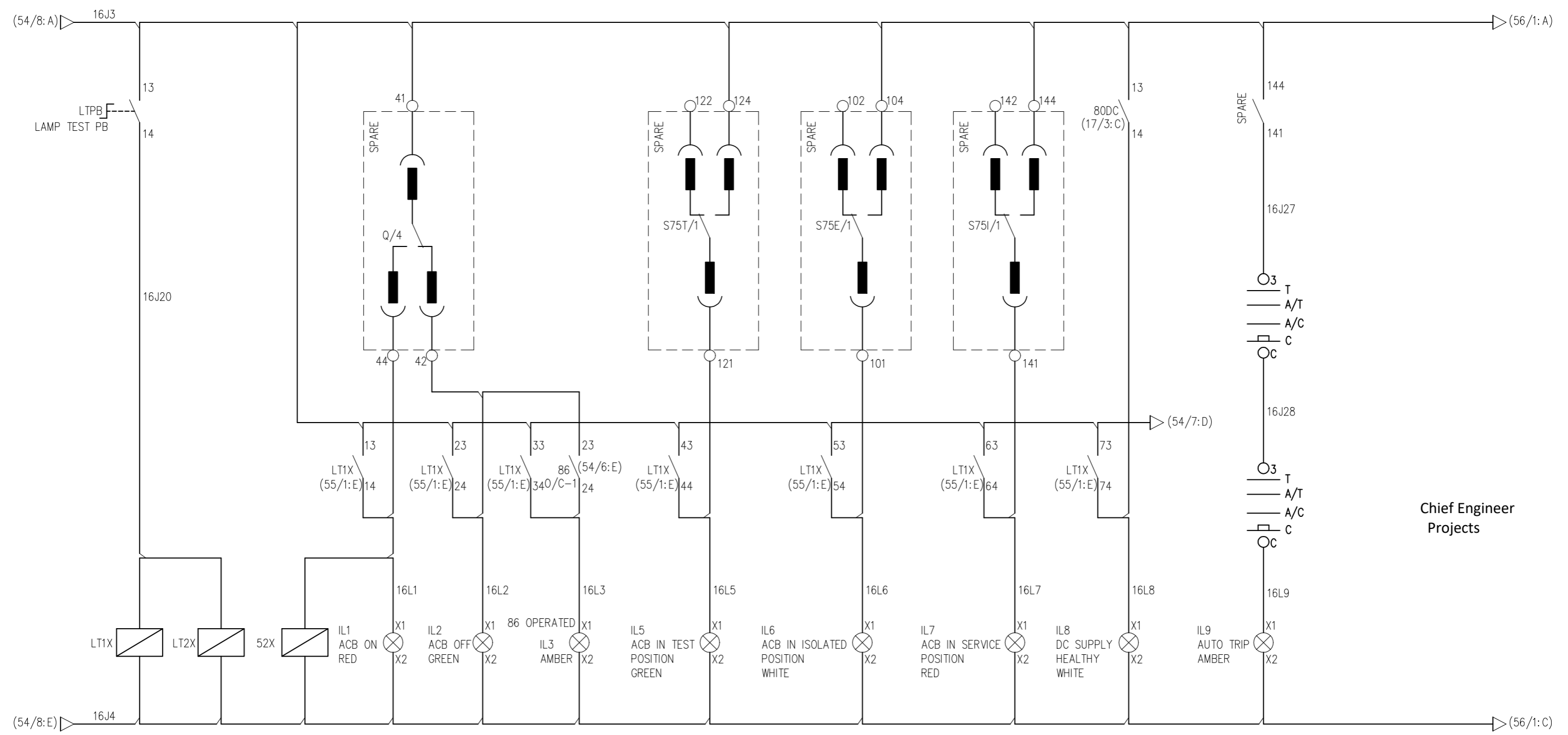
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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	PAGE TYPE	SPARE OUTGOING TRIPPING CIRCUIT	CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 54 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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- 13 - 14 (55/2:C) 13 - 14 (53/7:D) 13 - 14 (56/7:E)
- 23 - 24 (55/3:C) 23 - 24 (56/2:E)
- 33 - 34 (55/3:C) 33 - 34 (56/7:E)
- 43 - 44 (55/4:C) 21 - 22 (56/7:E)
- 53 - 54 (55/5:C)
- 63 - 64 (55/5:C)
- 73 - 74 (55/6:C)
- 83 - 84

Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD			DRN	RC	SCALE	NA
	PAGE TYPE	SPARE OUTGOING INDICATION CKT & SPARE CONTACT		CHD	BB	DATE	14.09.2023
		DRAWING No. GSS-23-24-024ACMB		APPD	JR	SHEET NO.	
					REV.	R6	55 OF 66

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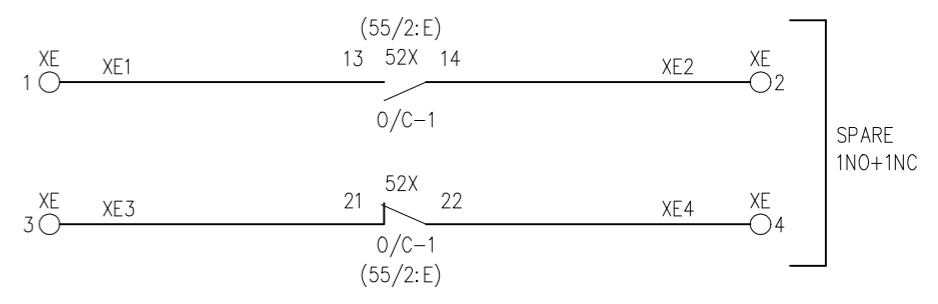
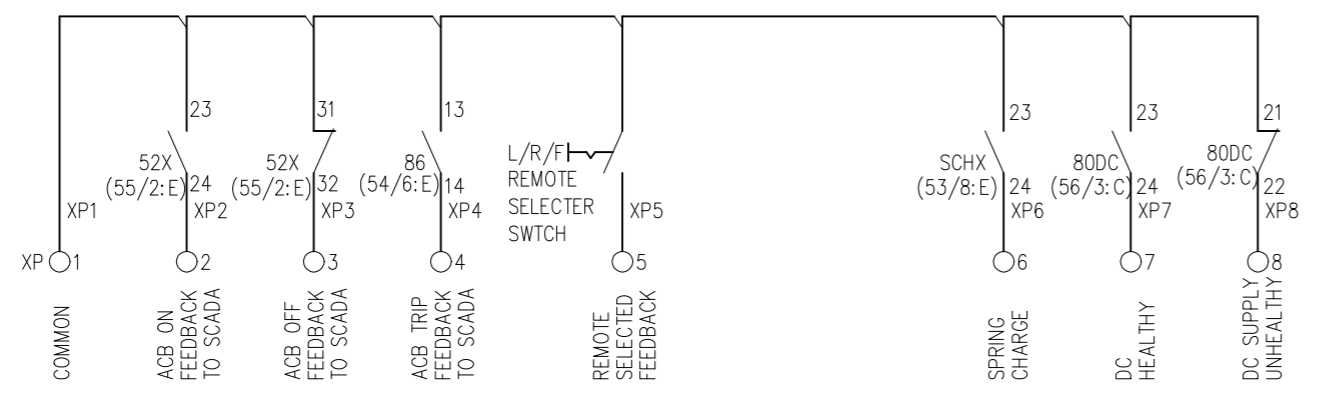
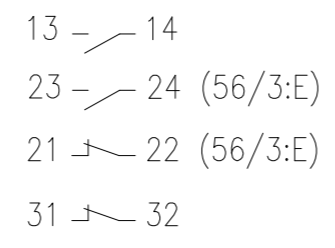
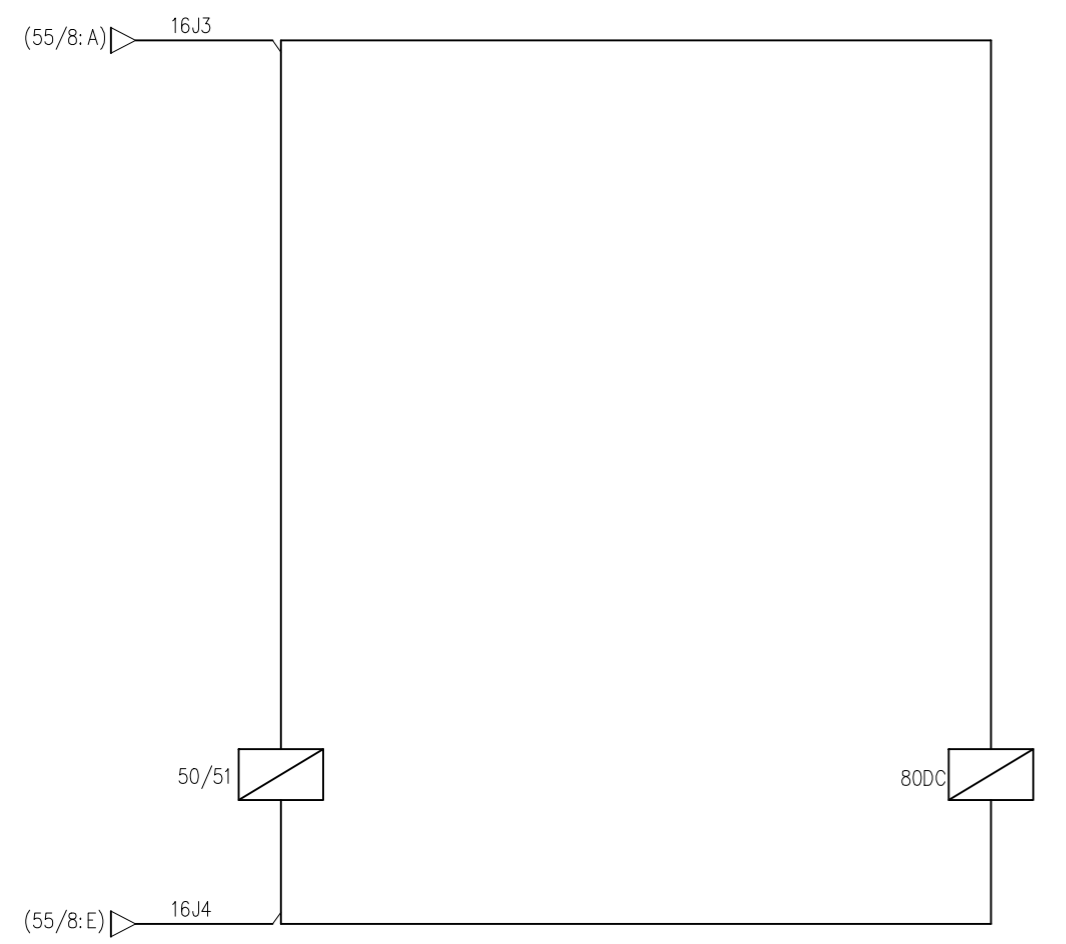
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Chief Engineer
Projects



R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
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R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

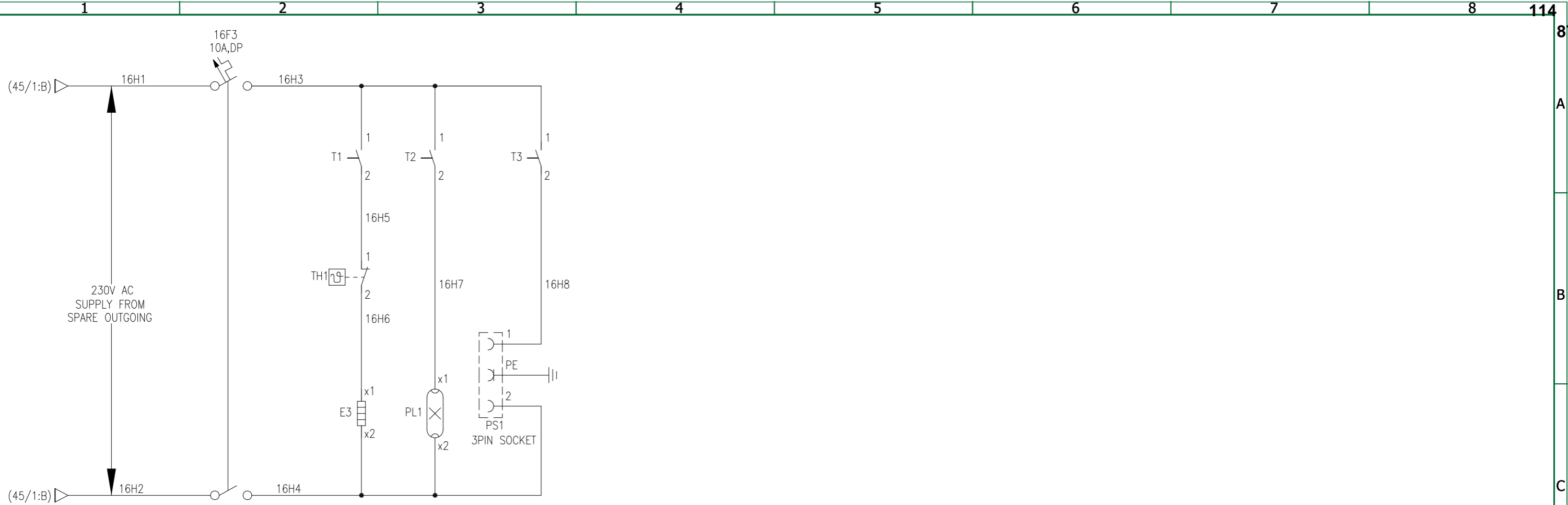
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	PAGE TYPE		CHD	BB	DATE	14.09.2023
	SPARE OUTGOING INDICATION CKT & SPARE CONTACT		APPD	JR	SHEET NO.	
			DRAWING No.		56 OF 66	
		GSS-23-24-024ACMB		REV.	R6	

1 2 3 4 5 6 7 8

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Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

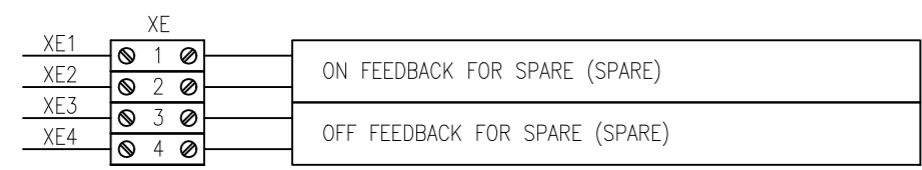
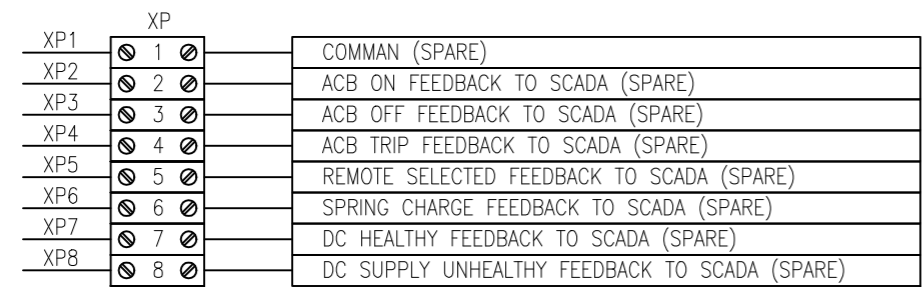
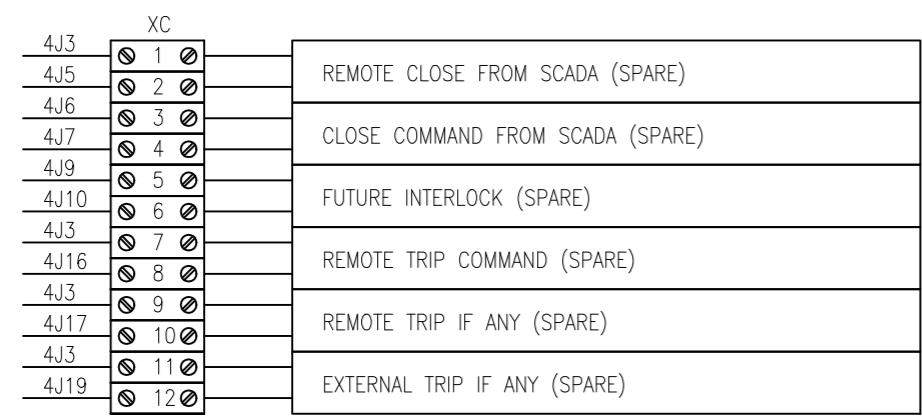
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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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			APPD	JR	SHEET NO.	
			DRAWING No.		57 OF 66	
		GSS-23-24-024ACMB		REV.	R6	

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TERMINAL DIAGRAM



Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
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R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
	PAGE TYPE	SPARE OUTGOING TERMINAL BLOCK DETAILS	CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 58 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
INCOMER-1					
1	CTTB1	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	8
2	CTTB2	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	8
3	CT1-3	Current transformer 1250/1A, Core-1: CL:1,15VA, Core-2: CL:5P15,10VA Resin cast	Kalpa/Instrans	NOS	3
4	50/51	Instantaneous and IDMT 3 O/C+EF Relay Aux. Supply:220V DC	Alstom	NOS	1
5	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
6	H1	Indications Lamps. 110 AC Cluster Type LED only Size: 22.5 mm, RED COLOUR (R-PHASE)	C&S/L&T/ABB	NOS	1
7	H2	Indications Lamps. 110 AC Cluster Type LED only Size: 22.5 mm, YELLOW COLOUR (Y-PHASE)	C&S/L&T/ABB	NOS	1
8	H3	Indications Lamps. 110 AC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (B-PHASE)	C&S/L&T/ABB	NOS	1
9	TR-V1	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
10	TR-V2	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
11	TR-V3	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
12	VSS	Voltmeter selector switch	Salzer/Switrom/Kaycee	NOS	1
13	AV	Analog AC Voltmeter 0-500V-CL3.5D 96X96 Sq.mm	Rishabh/Elmeasure/Secure	NOS	1
14	CTTB4	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	4
15	KWH	KWH METER	Rishabh/Elmeasure/Secure	NOS	1
16	KW	KW METER, AC Meter, 96 Sq.mm, CL:0.5, CTR: 1250/1A, 0-5MW, 3PHASE, 4WIRE, AUX. SUPPLY: 110V DC, Programmable	Rishabh/Elmeasure/Secure	NOS	1
17	5F2	Air circuit breaker TP, 1250A, 50KA, EDO-TM Based with 6NO+6NC (OL,SC)-415V AC	C&S/L&T/ABB	NOS	1
18	5F2	Shunt trip coil 220V DC	C&S/L&T/ABB	NOS	1
19	1F1	Mliniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	L&T	NOS	1
20	1F2	Mliniature circuit breaker SP 6A 6KA, 220V DC, 'C' Curve	L&T	NOS	1
21	1F3	Mliniature circuit breaker DP 10A 6KA, 230V AC, 'C' Curve	L&T	NOS	1
22	86	Master trip relay, Aux. Supply:220V DC, 6NO+3NC	Alstom	NOS	1
23	L/R	Selector switch 20A, 2 Pole, 2 Way	Salzer/Switron/Kaycee	NOS	1
24	TNCSW	TNC Switch 25A 220V DC 3Contacts Springret	Salzer/Switron/Kaycee	NOS	1
25	1F1-1F3	Control Fuse base-20A-220V DC With HRC Fuse-6A-220V DC	Bussman	NOS	13

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R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
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R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

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TITLE	415V AC MAIN BOARD		DRN	RC	SCALE	NA
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			APPD	JR	SHEET NO. 59 OF 66	
			DRAWING No. GSS-23-24-024ACMB		REV.	R6

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
INCOMER-1					
26	TR-C1	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
27	TR-C2	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
28	TR-C3	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
29	IL1	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB ON)	C&S/L&T/ABB	NOS	1
30	IL2	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB OFF)	C&S/L&T/ABB	NOS	1
31	IL3	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (86 OPERATED)	C&S/L&T/ABB	NOS	1
32	IL4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (SPRING CHARGE)	C&S/L&T/ABB	NOS	1
33	IL5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB IN TEST POSITION)	C&S/L&T/ABB	NOS	1
34	IL6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (ACB IN ISOLATED POSITION)	C&S/L&T/ABB	NOS	1
35	IL7	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB IN SERVICE POSITION)	C&S/L&T/ABB	NOS	1
36	IL8	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (DC SUPPLY HEALTHY)	C&S/L&T/ABB	NOS	1
37	IL9	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1
38	K11,APR,K12	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
39	86,LT2X	Aux. Contactor 2NO+2NC 220V DC, 1NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
40	SCHX	Aux. Contactor 4NO 220V DC	C&S/L&T/ABB	NOS	1
41	LT1X	Aux. Contactor 4NO 220V DC, 4NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
42	52X,K1,80DC	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
43	U/V (27)	UNDER VOLTAGE RELAY, 3 PHASE, MODEL : D2VCT1, DIN RAIL MOUNTED, OUTPUT CONTACT - 2C/0	MINILEC	NOS	1
44	MFM	MFM Meter CTR: 1250/1A, 110V AC, CL:1, 96 SQ.MM, Aux. Supply: 40-300V AC/DC, 3PH, 4 wire, with RS 485 Communication port	SCHNEIDER	NOS	1
45	PT	Potential Transformers, RESIN CAST, 415V/?3/110V/?3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3kV	INSTRANS/KALPA	NOS	3
INCOMER-2					
1	CTTB1	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	8
2	CTTB2	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	8
3	CT1-3	Current transformer 1250/1A, CORE-1: CL:1,15VA, CORE-2: CL:5P15,10VA Resin cast	Kalpa/Instrans	NOS	3
4	50/51	Instantaneous AND IDMT 3 O/C+EF Relay Aux. Supply:220V DC	Alstom	NOS	1
5	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
6	H1	Indications Lamps. 110 AC Cluster Type LED only Size: 22.5 mm, RED Colour (R-Phase)	C&S/L&T/ABB	NOS	1

Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

 GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA	
		CHD	BB	DATE	14.09.2023	
TITLE	415V AC MAIN BOARD			APPD	JR	SHEET NO.
				DRAWING No.		60 OF 66
	PAGE TYPE	BILL OF MATERIALS (2/8)		GSS-23-24-024ACMB	REV.	R6

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
INCOMER-2					
7	H2	Indications Lamps. 110 AC Cluster Type LED only Size: 22.5 mm, YELLOW COLOUR (Y-PHASE)	L&T	NOS	1
8	H3	Indications Lamps. 110 AC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (B-PHASE)	L&T	NOS	1
9	TR-V1	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
10	TR-V2	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
11	TR-V3	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
12	VSS	Voltmeter selector switch	Salzer	NOS	1
13	AV	Analog AC Voltmeter 0-500V-CL3.5D 96X96 Sq.mm	Rishabh/Elmeasure/Secure	NOS	1
14	CTTB4	CT Terminal blocks 6 Sq.mm	Connectwell	NOS	4
15	KWH	KWH METER	Rishabh/Elmeasure/Secure	NOS	1
16	KW	KW METER, AC Meter, 96 Sq.mm, CL:0.5, CTR: 1250/1A, 0-5MW, 3PHASE, 4WIRE, AUX. SUPPLY: 110V DC, Programmable	Rishabh/Elmeasure/Secure	NOS	1
17	7F2	Air circuit breaker TP, 1250A, 50KA, EDO-TM Based with 6NO+6NC (OL,SC)-415V AC	C&S/L&T/ABB	NOS	1
18	7F2	Shunt trip coil 220V DC	C&S/L&T/ABB	NOS	1
19	86	Master trip relay, Aux. Supply:220V DC, 6NO+3NC	Alstom	NOS	1
20	2F1-2F3	Control Fuse base-20A-220V DC With HRC Fuse-6A-220V DC	Bussman	NOS	13
21	TR-C1	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
22	TR-C2	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
23	TR-C3	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/Secure	NOS	1
24	IL1	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB ON)	C&S/L&T/ABB	NOS	1
25	IL2	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB OFF)	C&S/L&T/ABB	NOS	1
26	IL3	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (86 OPERATED)	C&S/L&T/ABB	NOS	1
27	IL4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (SPRING CHARGE)	C&S/L&T/ABB	NOS	1
28	IL5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB IN TEST POSITION)	C&S/L&T/ABB	NOS	1
29	IL6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (ACB IN ISOLATED POSITION)	C&S/L&T/ABB	NOS	1
30	IL7	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB IN SERVICE POSITION)	C&S/L&T/ABB	NOS	1
31	IL8	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (DC SUPPLY HEALTHY)	C&S/L&T/ABB	NOS	1
32	IL9	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1
33	MFM	MFM Meter CTR: 1250/1A, 110V AC, CL:1, 96 SQ.MM, Aux. Supply: 40-300V AC/DC, 3PH, 4 wire, with RS 485 Communication port	SCHNEIDER	NOS	1
34	PT	Potential Transformers, RESIN CAST, 415V/?3/110V/?3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3KV	INSTRANS/KALPA	NOS	3

Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
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ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

 GREEN SECURE ENERGY SYSTEMS,.		DRN	RC	SCALE	NA	
		CHD	BB	DATE	14.09.2023	
TITLE	415V AC MAIN BOARD		APPD	JR	SHEET NO.	
			DRAWING No.		61	OF 66
			GSS-23-24-024ACMB	REV.	R6	
PAGE TYPE	BILL OF MATERIALS (3/8)					

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
35	K11,APR,K12	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
36	86,LT2X	Aux. Contactor 2NO+2NC 220V DC, 1NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
37	SCHX	Aux. Contactor 4NO 220V DC	C&S/L&T/ABB	NOS	1
38	LT1X	Aux. Contactor 4NO 220V DC, 4NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
39	52X,K1,80DC	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
BUS COUPLER					
1	L/R	Selector switch 20A, 2 POLE, 2 WAY	Switron/Salzer/Kaycee	NOS	1
2	TNCSW	TNC Switch 25A 220V DC 1NO+1NC Springret	Switron/Salzer/Kaycee	NOS	1
3	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
4	6F2	Air circuit breaker TP, 1250A, 50KA, EDO-TM Based (OL,SC) With 6NO+6NC-415V AC	C&S/L&T/ABB	NOS	1
5	6F2	Shunt trip coil 220V DC	C&S/L&T/ABB	NOS	1
6	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
7	K11,APR,K12	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
8	SCHX	Aux. Contactor 4NO 220V DC	C&S/L&T/ABB	NOS	1
9	86,LT2X	Aux. Contactor 2NO+2NC 220V DC, 1NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
10	LT1X	Aux. Contactor 4NO 220V DC, 4NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
11	52X,80DC	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	2
12	3K1X	Add on block 2NO+2NC	C&S/L&T/ABB	NOS	1
13	3K2	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	1
14	3K3	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	1
15	3F1-3F3	Control Fuse base-20A-220V DC WITH HRC FUSE-6A-220V DC	Bussman/Reputed	NOS	13
16	IL1	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB ON)	C&S/L&T/ABB	NOS	1
17	IL2	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB OFF)	C&S/L&T/ABB	NOS	1
18	IL3	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1
19	IL4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (SPRING CHARGE)	C&S/L&T/ABB	NOS	1
20	IL5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB IN TEST POSITION)	C&S/L&T/ABB	NOS	1
21	IL6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (ACB IN ISOLATED POSITION)	C&S/L&T/ABB	NOS	1
22	IL7	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB IN SERVICE POSITION)	C&S/L&T/ABB	NOS	1
23	IL8	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (DC SUPPLY HEALTHY)	C&S/L&T/ABB	NOS	1
24	IL9	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1

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Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

 GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA	
		CHD	BB	DATE	14.09.2023	
TITLE	415V AC MAIN BOARD BILL OF MATERIALS (4/8)			APPD	JR	SHEET NO.
				DRAWING No.		62 OF 66
				GSS-23-24-024ACMB	REV.	R6

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
1250A OUTGOING FEEDERS					
1	4F2	Air circuit breaker, TP, 1250A, 50KA, EDO-TM Based (OL,SC) With 6NO+6NC-415V AC	C&S/L&T/ABB	NOS	1
2	4F2	Shunt trip coil 220V DC	C&S/L&T/ABB	NOS	1
3	F1-F3	Fuse base-20A-550VAC WITH HRC FUSE-6A-415V AC	Bussman/Reputed	NOS	3
4	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
5	DV	3 Phase Digital Voltmeter 0-500V AC, Aux. Supply: 240V AC	Rishabh/Elmeasure/Secure	NOS	1
6	DA	3 Phase Digital Ammeter 0-800A, Aux. Supply: 240V AC	Rishabh/Elmeasure/Secure	NOS	1
7	CTTB	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	16
8	CT1-3	Current transformer 1250/1A, Core-1: CL:1,15VA, Core-2: CL:5P15,10VA Resin cast	Kalpa/Instrans	NOS	3
9	L/R	Selector switch 20A, 2 Pole, 2 Way	Switron/Salzer/Kaycee	NOS	1
10	TNCSW	TNC Switch 25A 220V DC 1NO+1NC Springret	Switron/Salzer/Kaycee	NOS	1
11	X3	Control terminal blocks 2.5Sq.mm	Connectwell/Elmex	NOS	4
12	CT1-3	Current transformer 1250/1A, Core-1: CL:1,15VA, Core-2: CL:5P15,10VA Resin cast	Kalpa/Instrans	NOS	3
13	86	Master trip relay, Aux. Supply:220V DC, 6NO+3NC	Alstom	NOS	1
14	50/51	Instantaneous and IDMT 3 O/C+EF Relay Aux. Supply:220V DC	Alstom	NOS	1
15	K11,APR,K12	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
16	86,LT2X	Aux. Contactor 2NO+2NC 220V DC, 1NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
17	SCHX	Aux. Contactor 4NO 220V DC	C&S/L&T/ABB	NOS	1
18	LT1X	Aux. Contactor 4NO 220V DC, 4NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
19	52X,K1,80DC	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
20	IL1	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB ON)	C&S/L&T/ABB	NOS	1
21	IL2	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB OFF)	C&S/L&T/ABB	NOS	1
22	IL3	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (86 OPERATED)	C&S/L&T/ABB	NOS	1
23	IL4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (SPRING CHARGE)	C&S/L&T/ABB	NOS	1
24	IL5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB IN TEST POSITION)	C&S/L&T/ABB	NOS	1
25	IL6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (ACB IN ISOLATED POSITION)	C&S/L&T/ABB	NOS	1
26	IL7	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB IN SERVICE POSITION)	C&S/L&T/ABB	NOS	1
27	IL8	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (DC SUPPLY HEALTHY)	C&S/L&T/ABB	NOS	1
28	IL9	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1
29	PT	Potential Transformers, RESIN CAST, 415V/?3/110V/?3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3KV	INSTRANS/KALPA	NOS	3

Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
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R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
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 GREEN SECURE ENERGY SYSTEMS,.		DRN	RC	SCALE	NA
		CHD	BB	DATE	14.09.2023
TITLE	415V AC MAIN BOARD		APPD	JR	SHEET NO.
			DRAWING No.		63 OF 66
			GSS-23-24-024ACMB	REV.	R6
PAGE TYPE	BILL OF MATERIALS (5/8)				

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
630A OUTGOING FEEDERS					
1	2F1-2F3	Molded case circuit breaker, 630A, 4P, 415V AC, 50kA TM Based With O/L, S/C Releases	C&S/L&T/ABB	NOS	3
2	2F1-2F3	Rotary Handle	C&S/L&T/ABB	NOS	3
400A OUTGOING FEEDERS					
1	1F1-1F4&2F4	Molded case circuit breaker, 400A, 4P, 415V AC, 50kA TM Based With O/L, S/C Releases	C&S/L&T/ABB	NOS	5
2	1F1-1F4&2F4	Rotary Handle	C&S/L&T/ABB	NOS	5
63A OUTGOING FEEDERS					
1	3F1&3F3	Molded case circuit breaker, 63A, 4P, 415V AC, 50kA TM Based With O/L, S/C Releases	C&S/L&T/ABB	NOS	2
2	3F1&3F3	Rotary Handle	C&S/L&T/ABB	NOS	2
3	3F1&3F3X1	Terminal blocks 35 Sq.mm	Connectwell/Elmex	NOS	8
800A OUTGOING FEEDERS					
1	3F2	Molded case circuit breaker, 800A, 4P, 415V AC, 50kA TM Based With O/L, S/C Releases	C&S/L&T/ABB	NOS	1
2	3F2	Rotary Handle	C&S/L&T/ABB	NOS	1
1250A OUTGOING FEEDERS					
1	8F2	Air circuit breaker TP, 1250A, 50KA, EDO-TM Based (OL,SC) With 6NO+6NC-415V AC	C&S/L&T/ABB	NOS	1
2	8F2	Shunt trip coil 220V DC	C&S/L&T/ABB	NOS	1
3	F1-F3	Fuse base-20A-550VAC WITH HRC FUSE-6A-415V AC	Bussman/Reputed	NOS	3
4	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
5	H1	Indications Lamps. 200 DC Cluster Type LED only Size: 22.5 mm, RED Colour (R-PHASE)	C&S/L&T/ABB	NOS	1
6	H2	Indications Lamps. 200 DC Cluster Type LED only Size: 22.5 mm, YELLOW Colour (Y-PHASE)	C&S/L&T/ABB	NOS	1
7	H3	Indications Lamps. 200 DC Cluster Type LED only Size: 22.5 mm, BLUE Colour (B-PHASE)	C&S/L&T/ABB	NOS	1
8	DV	3 Phase Digital Voltmeter 0-500V AC, AUX SUPPLY: 240V AC	Rishabh/Elmeasure/Secure	NOS	1
9	DA	3 Phase Digital Ammeter 0-1250A, AUX SUPPLY: 240V AC	Rishabh/Elmeasure/Secure	NOS	1
10	CTTB	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	8
11	CT1-3	Current transformer 1250/1A, CL:1,15VA, Resin cast	Kalpa/Instrans	NOS	3
12	L/R	Selector switch 20A, 2 Pole, 2 Way	Switron/Salzer/Kaycee	NOS	1
13	TNC SW	TNC Switch 25A 220V DC 1NO+1NC Springret	Switron/Salzer/Kaycee	NOS	1
14	X4	Control terminal blocks 2.5Sq.mm	Connectwell/Elmex	NOS	4
15	CT1-3	Current transformer 1250/1A, Core-1: CL:1,15VA, Core-2: CL:5P15,10VA Resin cast	Kalpa/Instrans	NOS	3
16	86	Master trip relay, Aux. Supply:220V DC, 6NO+3NC	Alstom	NOS	1
17	50/51	Instantaneous and IDMT 3 O/C+EF Relay Aux. Supply:220V DC	Alstom	NOS	1

Chief Engineer
Projects

R6	20.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 18.03.2024	RC
R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

 GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA	
		CHD	BB	DATE	14.09.2023	
TITLE	415V AC MAIN BOARD BILL OF MATERIALS (6/8)		APPD	JR	SHEET NO.	
			DRAWING No.		64	OF 66
			GSS-23-24-024ACMB	REV.	R6	

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
18	K11,APR,K12	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
19	86,LT2X	Aux. Contactor 2NO+2NC 220V DC, 1NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
20	SCHX	Aux. Contactor 4NO 220V DC	C&S/L&T/ABB	NOS	1
21	LT1X	Aux. Contactor 4NO 220V DC, 4NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
22	52X,K1,80DC	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
23	IL1	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB ON)	C&S/L&T/ABB	NOS	1
24	IL2	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB OFF)	C&S/L&T/ABB	NOS	1
25	IL3	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1
26	IL4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (SPRING CHARGE)	C&S/L&T/ABB	NOS	1
27	IL5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB IN TEST POSITION)	C&S/L&T/ABB	NOS	1
28	IL6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (ACB IN ISOLATED POSITION)	C&S/L&T/ABB	NOS	1
29	IL7	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB IN SERVICE POSITION)	C&S/L&T/ABB	NOS	1
30	IL8	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (DC SUPPLY HEALTHY)	C&S/L&T/ABB	NOS	1
29	IL9	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1
30	PT	Potential Transformers, RESIN CAST, 415V/?3/110V/?3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3kV	INSTRANS/KALPA	NOS	3

Chief Engineer
Projects

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R5	17.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 16.03.2024	RC
R4	15.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.03.2024	SHL
R3	13.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 11.03.2024	SHL
R2	05.03.2024	REVISED AS PER CUSTOMER COMMENTS ON 01.03.2024	RC
R1	04.01.2024	REVISED AS PER CUSTOMER COMMENTS ON 13.12.2023	RC



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	PAGE TYPE	BILL OF MATERIALS (7/8)	CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 65 OF 66	
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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	QTY.
800A OUTGOING FEEDERS					
1	10F3	Molded case circuit breaker, 800A, 4P, 415V AC, 50kA TM Based With O/L, S/C Releases	C&S/L&T/ABB	NOS	1
2	10F3	Rotary Handle	C&S/L&T/ABB	NOS	1
3	PL1-PL9	230V AC, 11W CFL, suitable for bulb holder	Philips	NOS	9
4	SH1-SH9	Space heater 80W, 230V AC, 1 Phase	Girish ego	NOS	9
5	TH1-TH9	Thermostat with 1NC contact, 15A, Range 30-85 Deg.C	Girish ego	NOS	9
6	ITB-1&ITB2	Terminal block suitable for 2.5Sq.mm	Connect well/Elmex	NOS	38
7	PSH1-PSH9	Power socket 3 pin socket with switch,230V AC,10A, universal pin type	Anchor	NOS	9
8	1F15	Miniature circuit breaker, 10A, DP, 230V AC, C-Curve	C&S/L&T/ABB	NOS	9


For EPC Contracts Only

MANDATORY SPARES FOR 1250A ACBs						
1	Air Circuit Breaker with motor operated mechanism(complete)					
2	Control Switch		NOS		1	
3	over current, earthfault relay		NOS		1	
4	MFM/EM		NOS		1	
5	Voltmeter, ammeter		SET		1	
6	transducers		SET		1	
7	Closing coil		NOS		1	
8	Opening Coil		NOS		1	
9	Busbar seal off insulator as percentage of total quantity				5%	
10	Busbar support insulator as percentage of the total quantity				10%	

Chief Engineer
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