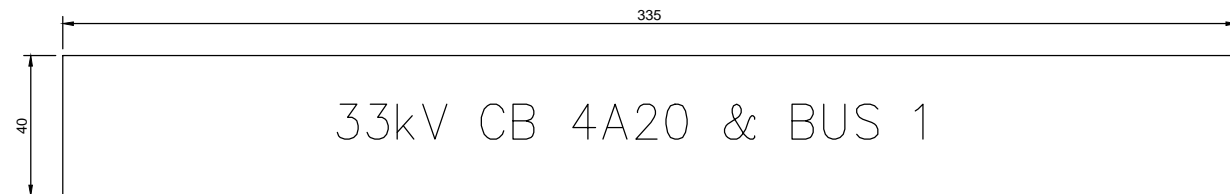




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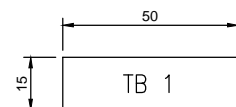
A3	10	E13	150	0
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TEXT HEIGHT: 10mm

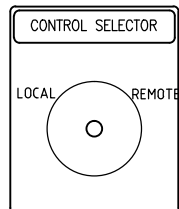
LABEL	INSCRIPTION	QTY
1	AS SHOWN	2

REFER TO NOTE 1



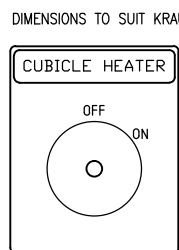
TEXT HEIGHT: 5mm

LABEL	INSCRIPTION	QTY
3	AS SHOWN	1
4	TB 2	1
6	86-BZ1	1
9	TRIP CCT OK	1
16	CB OPEN	1
17	CB CLOSED	1
18	4A21 CLOSED	1
19	4A21 OPEN	1
20	4A22 CLOSED	1
21	4A22 OPEN	1
22	TRIP CCT OK	1
23	4A24 CLOSED	1
24	4A24 OPEN	1
25	4A25 CLOSED	1
26	4A25 OPEN	1

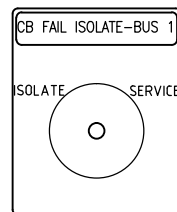


DIMENSIONS TO SUIT KRAUS & NAIMER SWITCH

LABEL	INSCRIPTION	QTY
11	AS SHOWN	1

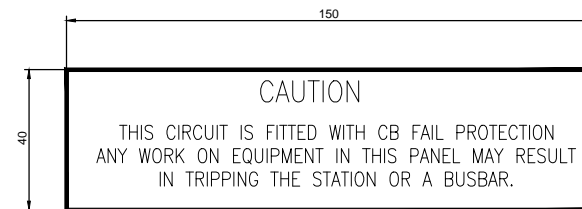


DIMENSIONS TO SUIT KRAUS & NAIMER SWITCH



DIMENSIONS TO SUIT KRAUS & NAIMER SWITCH

LABEL	INSCRIPTION	QTY
12	AS SHOWN	1
13	CB FAIL ISOLATE-BUS 2	1



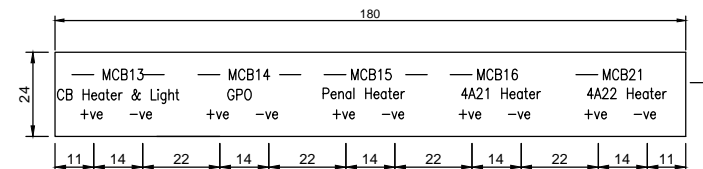
TEXT HEIGHT: 6mm & 4mm  
BLACK LETTERING ON YELLOW BACKGROUND

LABEL	INSCRIPTION	QTY
2	AS SHOWN	2

REFER TO NOTE 2

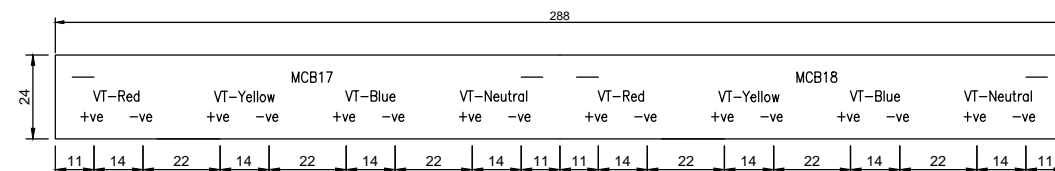
NOTES:

- NOTES:**
1. SECOND LABEL IS TO BE PLACED AT REAR OF PANEL ON TOP OF THE PANEL FRAME.
  2. SECOND LABEL IS TO BE PLACED ADJACENT TO THE REAR DOOR HANDLE



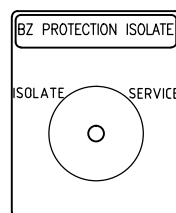
TEXT HEIGHT: 3mm

LABEL	INSCRIPTION	QTY
27	AS SHOWN	1



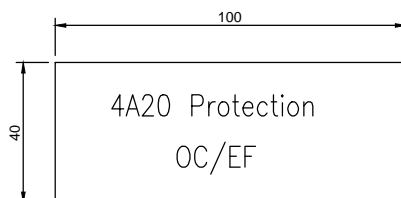
TEXT HEIGHT: 3mm

LABEL	INSCRIPTION	QTY
30	AS SHOWN	1



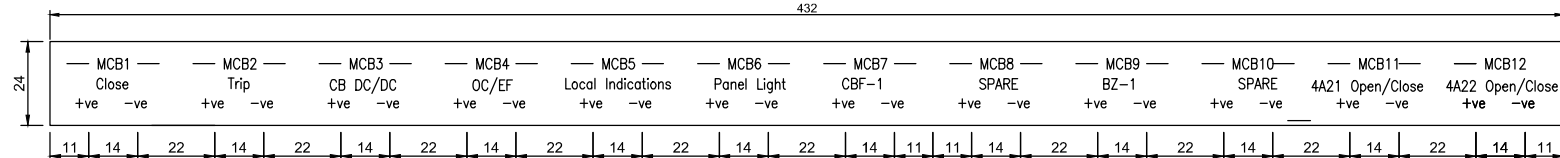
DIMENSIONS TO SUIT KRAUS & NAIMER SWITCH

LABEL	INSCRIPTION	QTY
14	BZ-1 PROTECTION ISOLATE	1



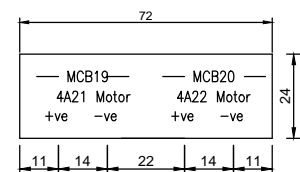
TEXT HEIGHT: 6mm

LABEL	INSCRIPTION LINE 1	INSCRIPTION LINE 2	QTY
9	AS SHOWN	AS SHOWN	1
8	33kV BUS 1	PROTECTION	1




TEXT HEIGHT: 3mm

LABEL	INSCRIPTION	QTY
28	AS SHOWN	1



TEXT HEIGHT: 3mm

LABEL	INSCRIPTION	QTY
29	AS SHOWN	1

							REFERENCE				<table><tr><td>DRAWN</td><td>M.TALIB</td><td>11/10/17</td></tr><tr><td>CHECKED</td><td></td><td></td></tr><tr><td>CHIEF DRAUGHTSMAN</td><td></td><td></td></tr><tr><td>TEAM LEADER</td><td></td><td></td></tr><tr><td>ENGINEER</td><td>K.PRASAD</td><td>25/02/17</td></tr><tr><td>HEAD OF DEPARTMENT</td><td>O.D.S</td><td>25/02/17</td></tr></table>	DRAWN	M.TALIB	11/10/17	CHECKED			CHIEF DRAUGHTSMAN			TEAM LEADER			ENGINEER	K.PRASAD	25/02/17	HEAD OF DEPARTMENT	O.D.S	25/02/17	ENERGY FIJI LIMITED					
DRAWN	M.TALIB	11/10/17																																	
CHECKED																																			
CHIEF DRAUGHTSMAN																																			
TEAM LEADER																																			
ENGINEER	K.PRASAD	25/02/17																																	
HEAD OF DEPARTMENT	O.D.S	25/02/17																																	
											VUDA 33kv/11kv SUBSTATION		DRAWING NUMBER																						
											VUDA CIRCUIT 33kv CB 4A20		A3	10	E13	150	0																		
											RELAY PANEL LABELS & SWITCHES																								
0.	ISSUED FOR PROCUREMENT	11.10.17	MT																																
No.	REVISION	DATE	BY	CHK	PSD	APP		DRAWING No.	TITLE				SCALE		NTS																				





A310E131400
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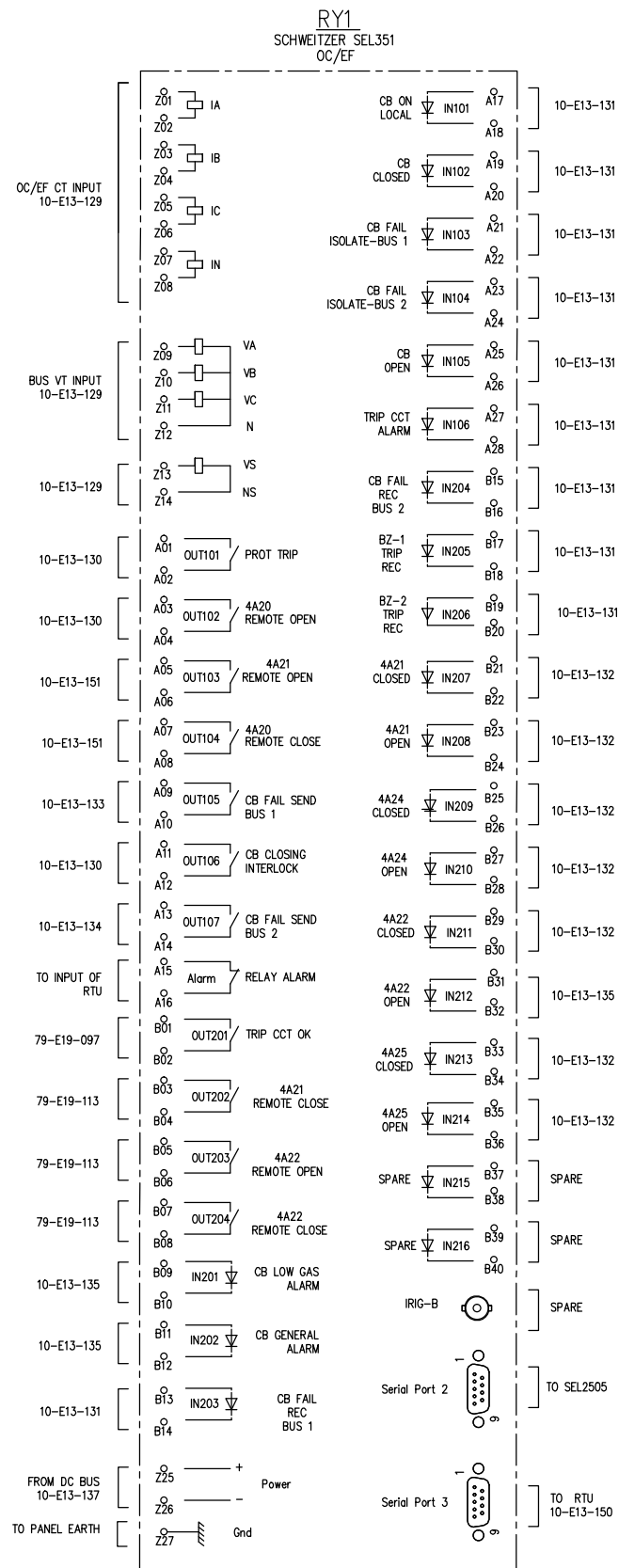
## EQUIPMENT SCHEDULE















CODE	ITEM	DESCRIPTION	TYPE	QTY	SUPPLIED BY	COMMENTS
.	a	Panel 600(W) X 800(D) X 2000(H)	Rittal TS. IT DK5330.120,8608.500	1	Contractor	WITH GLAZED DOOR & AS PER FEA SPECS
.	b	1U Blanking Plate	Cold Rolled Steel 2.5mm thick	6	Contractor	
RY1	.	Overcurrent/Earth Fault Relay	SEL351S	1	Contractor	P# 0351S7XHD3E1342
RY2	.	BUS ZONE PROTECTION RELAY	SEL587Z	1	Contractor	P# 0587Z02311H12XX
TB1,TB2	.	Test Block	Areva MMLG02	2	Contractor	P# MMLG02R1AA0001E
IND1	.	Trip Circuit Supervision Indication Lamp – White LED	ZB5AV013, ZBVBG1	1	Contractor	DC
IND2		Isolator 4A24 Open Indication Lamp – Green LED	ZB5AV033, ZBVBG3		Contractor	DC
IND3		Isolator 4A24 Closed Indication Lamp – Red LED	ZB5AV043, ZBVBG4		Contractor	DC
IND4		Isolator 4A25 Open Indication Lamp – Green LED	ZB5AV033, ZBVBG3		Contractor	DC
IND5		Isolator 4A25 Closed Indication Lamp – Red LED	ZB5AV043, ZBVBG4		Contractor	DC
SS1	.	Switch – Control Selector (Local or Remote)	KRAUS & NAIMER CA10–A371–600	1	Contractor	FT6 Rectangular Escutcheon Plate
SS2,SS3	.	Switch – Circuit Breaker Fail Isolate	KRAUS & NAIMER CA10–A721	2	Contractor	FT6 Rectangular Escutcheon Plate
SS4, SS5	.	Switch – Bus Zone Protection Isolate	KRAUS & NAIMER CA10–A721	2	Contractor	FT6 Rectangular Escutcheon Plate
PB1	.	Push Button Switch – Circuit Breaker Control (Circuit Breaker Close Switch + Indication)	Schneider XB5AW3465	1	Contractor	
PB2	.	Push Button Switch – Circuit Breaker Control (Circuit Breaker Open Switch + Indication)	Schneider XB5AW3365	1	Contractor	
PB3, PB5	.	Push Button Switch – Isolator Control (Isolator Close Switch + Indication)	Schneider XB5AW3465	2	Contractor	
PB4, PB6	.	Push Button Switch – Isolator Control (Isolator Open Switch + Indication)	Schneider XB5AW3365	2	Contractor	
HS	.	Switch – Heater	KRAUS & NAIMER CA10–A201	1	Contractor	FT6 Rectangular Escutcheon Plate
MCB 1, 2, 11, 12, 19, 20	.	Miniature Circuit Breaker 110VDC, 10A	Schneider A9N–61528	6	Contractor	MCB 11 & 12 to be changed to 10A
MCB 3, 4, 5, 6	.	Miniature Circuit Breaker 110VDC, 2A	Schneider A9N–61522	4	Contractor	
MCB 7, 8, 9, 10	.	Miniature Circuit Breaker 110VDC, 6A	Schneider A9N–61526	4		
MCB 17 & 18	.	Miniature Circuit Breaker 110VAC, 2A	Schneider A9F–54402	2	Contractor	
MCB 13 – 16, 21	.	Miniature Circuit Breaker 240VAC, 10A	Schneider A9F–44210	5	Contractor	
.	c	3U Blanking Plate	Cold Rolled Steel 2.5mm thick	6	Contractor	Where required, with lamps and switches
.	d	6U Blanking Plate	Cold Rolled Steel 2.5mm thick	1	Contractor	
.	e	Internal Punched Section	Rittal 8612.080	9	Contractor	
.	f	Cable Trunking	Critchley Betaduct	2	Contractor	
.	g	DIN Rail	Weidmuller TS35	2	Contractor	
X1	.	Measuring Disconnect Terminal	Weidmuller WTL 6/1/STB	40	Contractor	Terminal Block to have label, X1 above X1:1. Each Terminal to be numbered
X2	.	Terminal	Phoenix Contact UT 4	90	Contractor	Terminal Block to have label, X2 above X2:1. Each Terminal to be numbered
X3	.	Terminal	Phoenix Contact UT 4	20	Contractor	Terminal Block to have label, X3 above X3:1. Each Terminal to be numbered
.	h	Cable Trunking 2	Critchley Betaduct	2	Contractor	
.	j	Plinth	Rittal 8602.080, 8602.600	1	Contractor	
.	.	Earth Terminal	Phoenix Contact	1	Contractor	
.	l	GPO, 240V AC, 10Amp	CLIC2025WE,CL1238WE	1	Contractor	
.	m	Thermostat	Rittal	1	Contractor	
.	n	Panel Heater	Rittal	1	Contractor	
RY4		Trip Lockout Relay (Hand Reset)	Areva MVAJ13	2	Contractor	Part No: MVAJ13R1BB0751F
PB40	.	Push Button	TELEMECANIQUE HARMONY 5 XALD102	1	Contractor	GREEN PB + 1 NO CONTACT (ALSO RS 330–8464)
.	k	Panel Light LED's (White)	Innovec Control LEDTL/18 / 100 125VDC/95VAC	1	Contractor	c/w Bracket and 1m Lead
.	p	Panel Light Time Delay Relay	Rockwell 700–Ha32z01 + 700–Ht3 Timer Module	1	Contractor	c/w Hnz04 Base & Retainer Clips
.		4U Blanking Plate	Cold Rolled Steel 2.5mm Thick	1	Contractor	

[illegible]



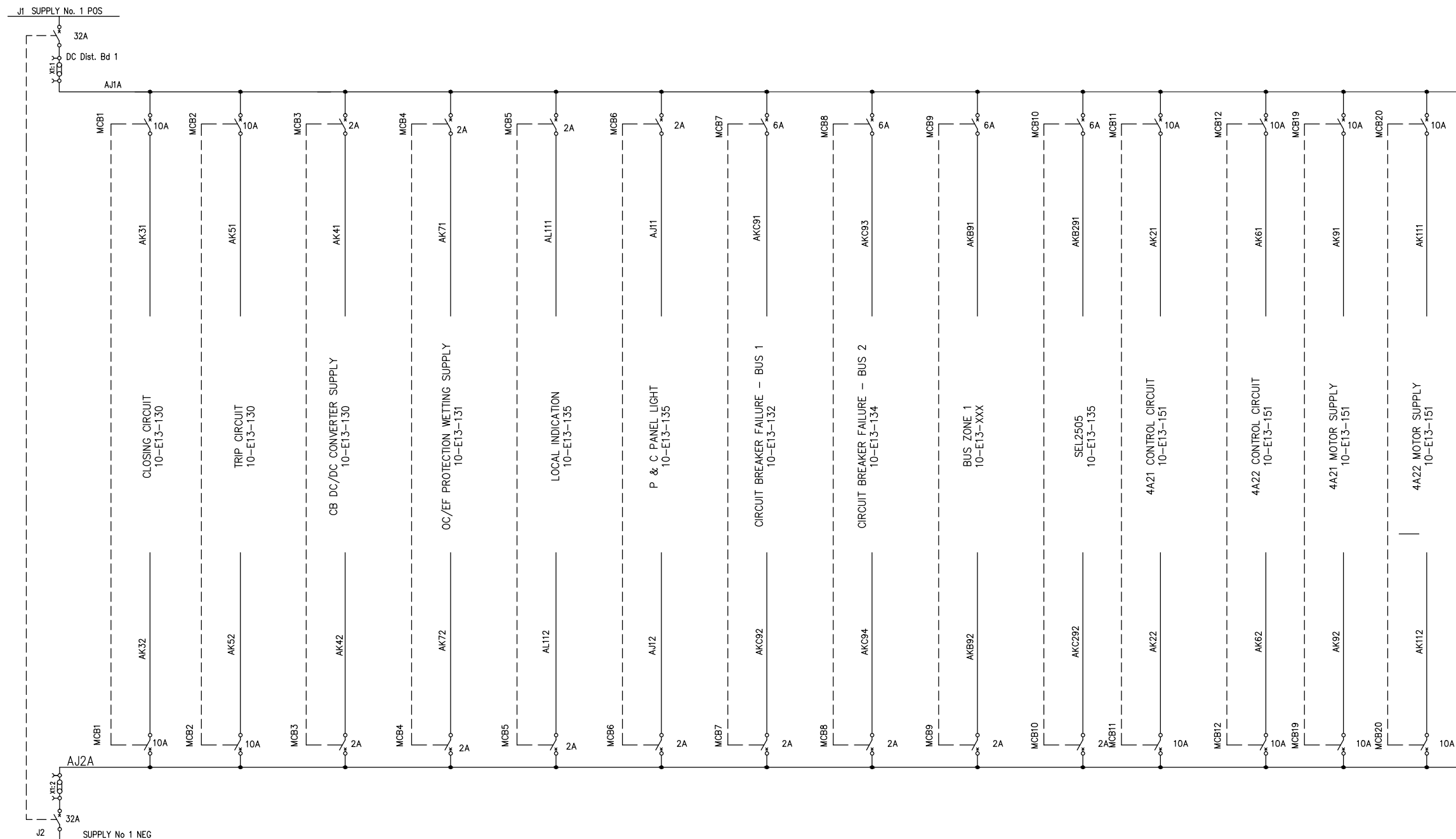
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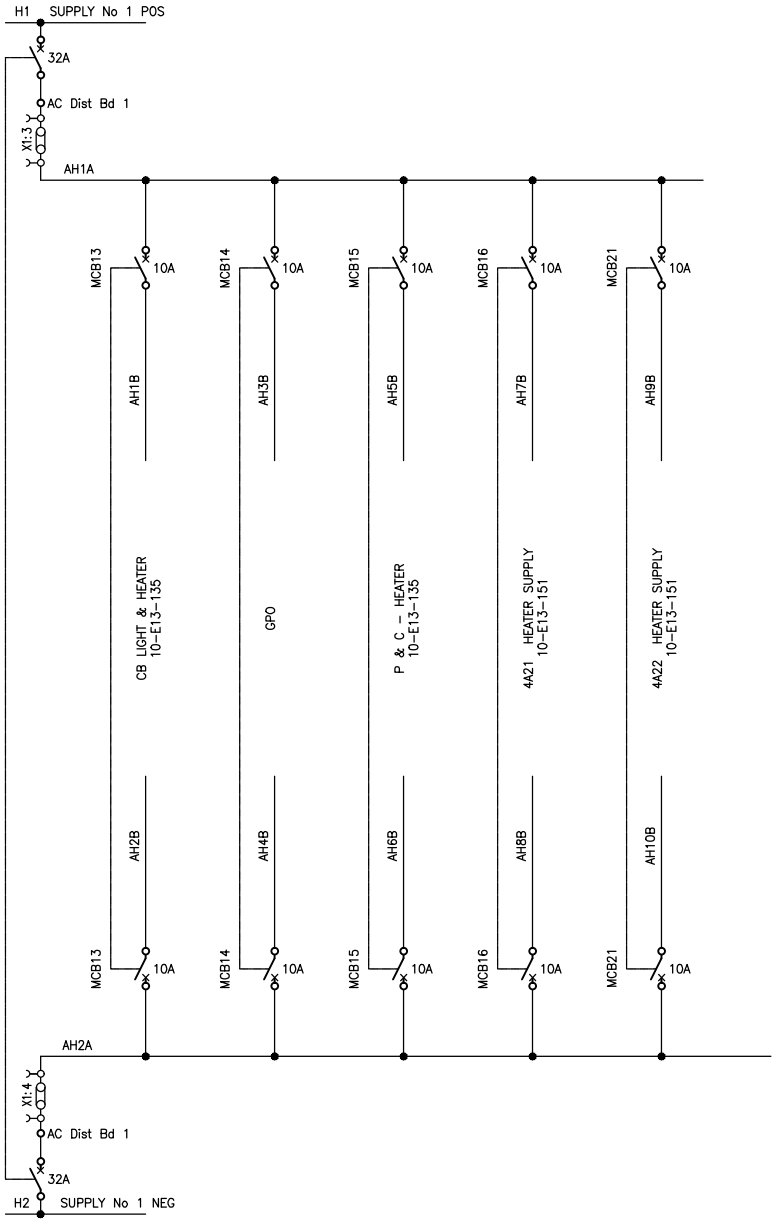


TERMINAL	DESCRIPTION	REF
	PROT. TRIP	10-E13-130
	PROT. TRIP	10-E13-130
	VT3 RΦ (BUS-1)	10-E13-129
	VT3 YΦ (BUS-1)	10-E13-129
	VT3 BΦ (BUS-1)	10-E13-129
	VT3 N (BUS-1)	10-E13-129
	CB FAIL SEND BUS1	10-E13-134
	CB FAIL SEND BUS 1	10-E13-134
	CB FAIL SEND BUS2	10-E13-XXX
	CB FAIL SEND BUS2	10-E13-XXX
	OC/EF CT RΦ	10-E13-129
	OC/EF CT YΦ	10-E13-129
	OC/EF CT BΦ	10-E13-129
	OC/EF CT N	10-E13-129

[illegible]



[illegible]



0.	ISSUED FOR PROCUREMENT.	11.10.17	MT			
No.	REVISION	DATE	BY	CHK	PSD	APP

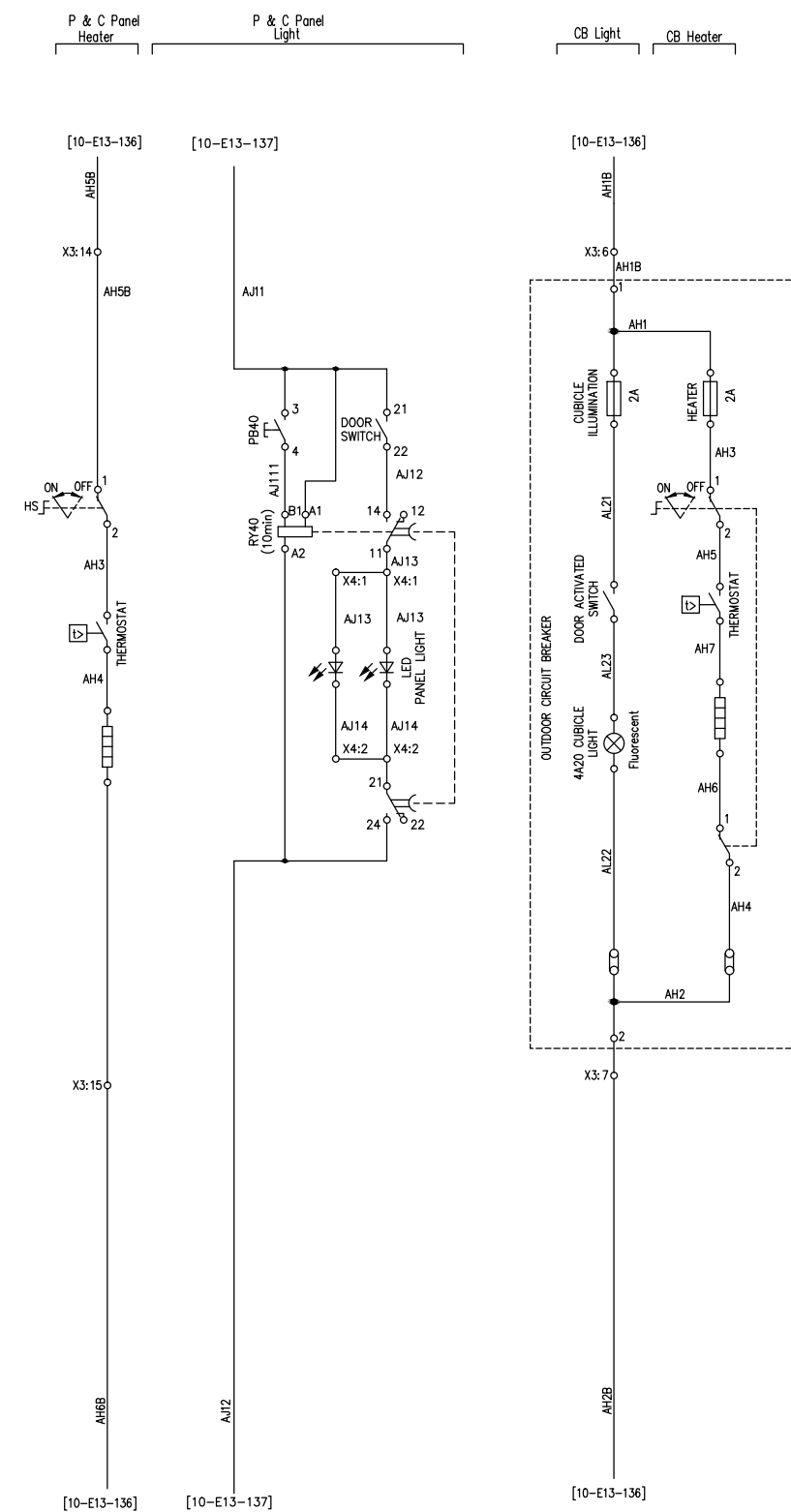
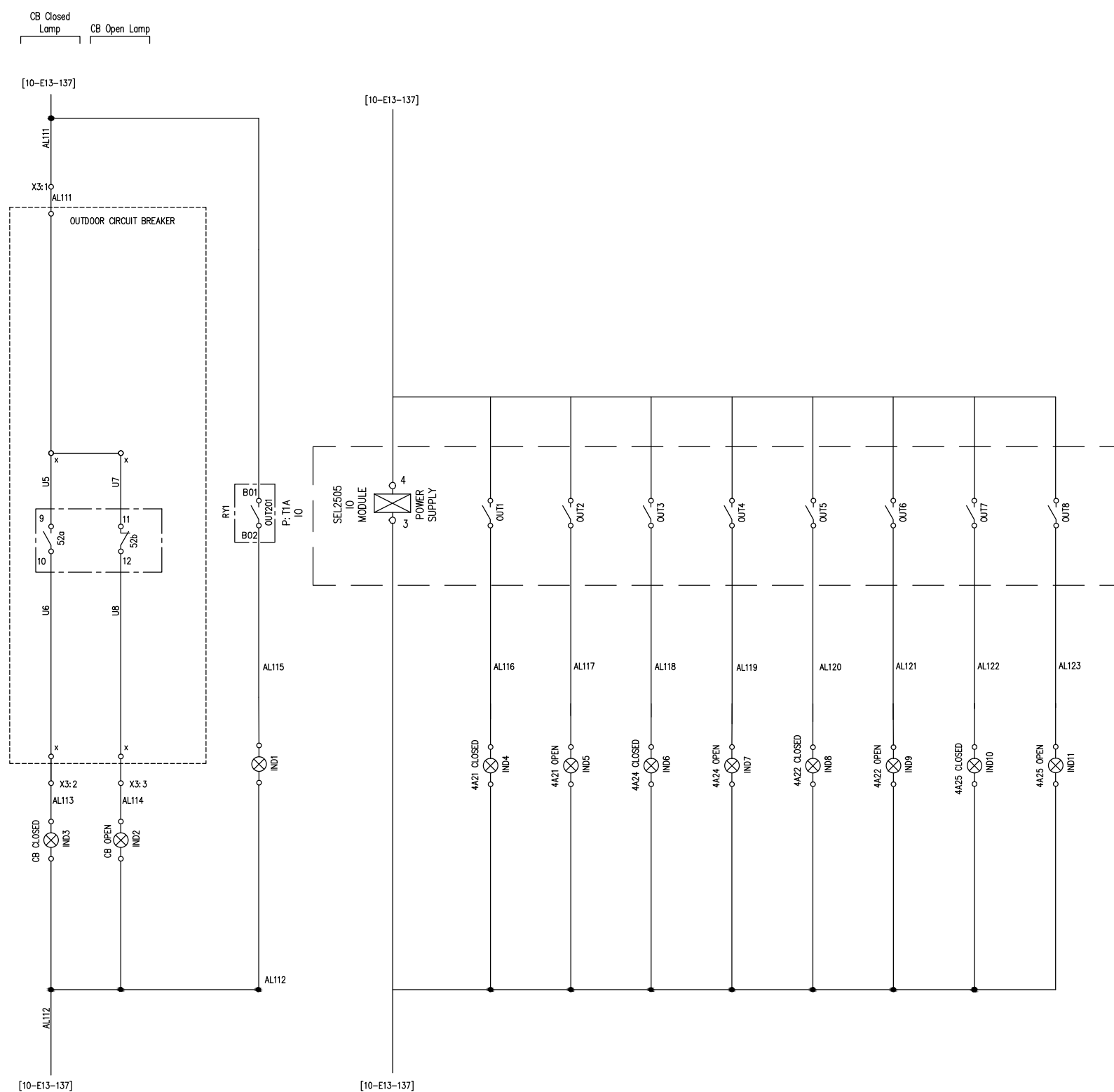
REFERENCE	
DRAWING No.	TITLE



DRAWN	M. TALIB	11/10/17
CHECKED	K.PRASAD	
CHIEF DRAUGHTSMAN		
TEAM LEADER		
ENGINEER	K.PRASAD	
HEAD OF DEPARTMENT	O.D.S	

ENERGY FIJI LIMITED VUDA 33kV/11kV SUBSTATION BUS SECTION 33kV CB 4A20 AC SUPPLY CIRCUIT DIAGRAM		DRAWING NUMBER	
		A310E13136	0
		SCALE	NTS

A3	10	E13	1350
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0.	ISSUED FOR PROCUREMENT.	11.10.17	MT			
No.	REVISION	DATE	BY	CHK	PSD	APP

[illegible]

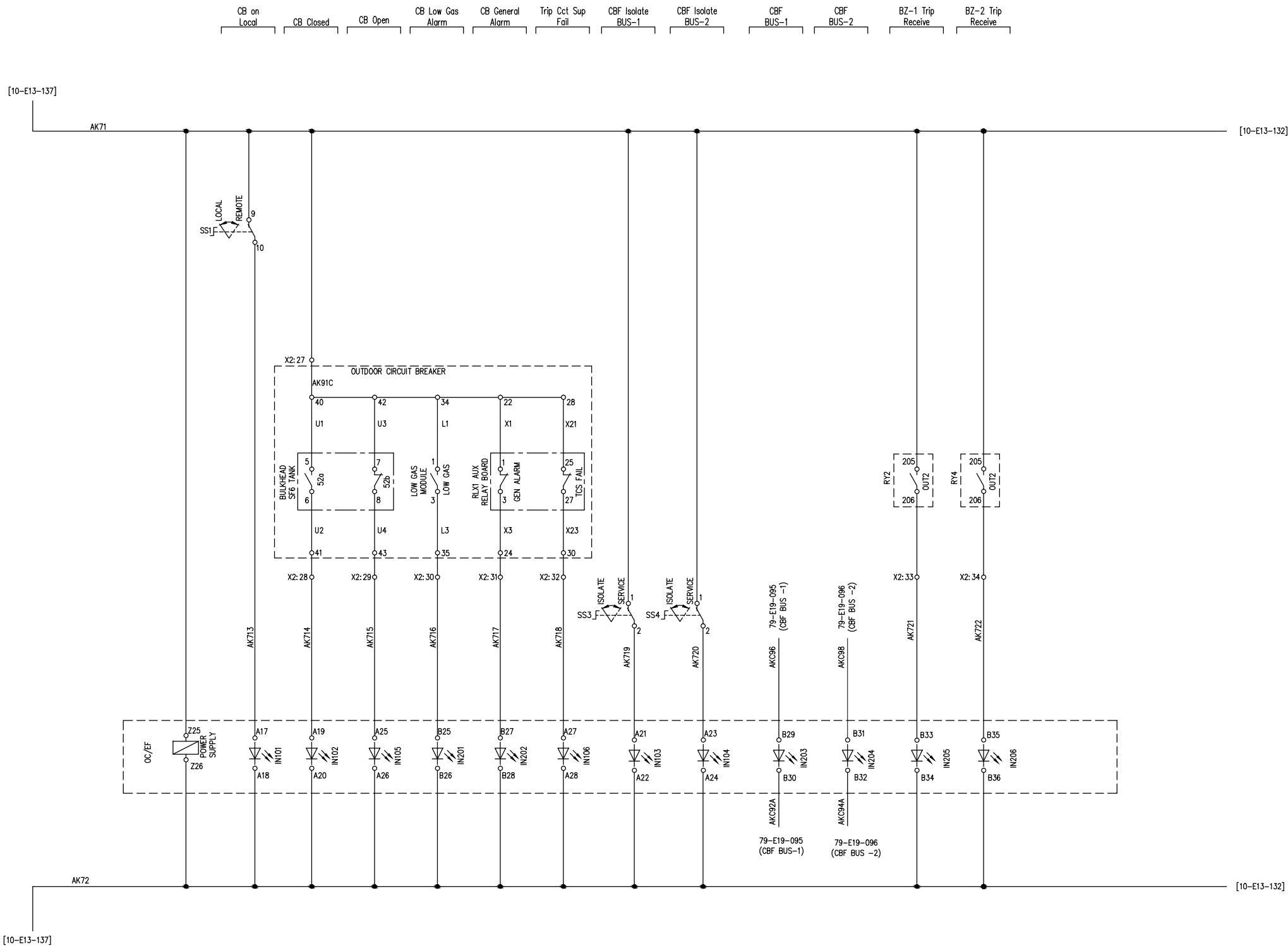
DRAWN	M TALIB	11/10/17
CHECKED	K.PRASAD	
CHIEF DRAUGHTSMAN		
TEAM LEADER		
ENGINEER	K.PRASAD	
HEAD OF DEPARTMENT	O.D.S	

<p align="center"><b>ENERGY FIJI LIMITED</b></p>	
<p align="center">VUDA 33kV/11kV SUBSTATION</p>	
<p align="center">BUS SECTION</p>	
<p align="center">33kV CB 4A20</p>	AS
<p align="center">DC CIRCUIT DIAGRAM</p>	SCALE

DRAWING NUMBER				
A310	E13	135	0	
SCALE		NTS		







						REFERENCE		 <div>energising our nation</div>			DRAWN	M TALIB	11/10/17	ENERGY FIJI LIMITED						
												CHECKED	K.PRASAD		VUDA 33kV/11kV SUBSTATION			DRAWING NUMBER		
												CHIEF DRAUGHTSMAN								
												TEAM LEADER			BUS SECTION			A310E131310		
												ENGINEER	K.PRASAD							
0.	ISSUED FOR PROCUREMENT.				11.10.17	MT					HEAD OF DEPARTMENT	O.D.S		DC CIRCUIT DIAGRAM - PART 2			SCALE NTS			
No.	REVISION				DATE	BY	CHK	PSD	APP		DRAWING No.		TITLE							



