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DRAWING LIST							
S/NO.	DESCRIPTION	DWG NO.	REVISION				REMARK
			0	A	B	C	
1	GENERAL	SUN-POR082491-21/04-G	14/09/2021				
2	SWITCHBOARD LAYOUT	SUN-POR082491-21/04-L	14/09/2021				
3	CONTROL CIRCUIT	SUN-POR082491-21/04-C	14/09/2021				

TECHNICAL DATA
SWITCHGEAR DETAILED

SWITCHGEAR NAME	: 100A PANEL		
TOTAL WIDTH SWITCHGEAR	: 600mm		
SWITCHGEAR DEPTH	: 250mm		
SWITCHGEAR HEIGHT	: 850mm		
POWER COATING	: RAL 7035		
	☐ INDOOR	☒ OUTDOOR	
	☒ SMOOTH	☐ TEXTURE	
FINISHING	: EPOXY POWDER COATING		
THICKNESS	: MINIMUM 50 MICRONS		
MATERIAL	: ELECTRO-GALVANISED STEEL SHEET		
FRAME THICKNESS	☐ 1.2mm	☒ 1.5mm	☐ 2.0mm
INNER DOOR THICKNESS	☒ 1.2mm	☐ 1.5mm	☐ 2.0mm
OUTER DOOR THICKNESS	☐ 1.2mm	☒ 1.5mm	☐ 2.0mm
BACK COVER THICKNESS	☐ 1.2mm	☒ 1.5mm	☐ 2.0mm
SIDE PLATE THICKNESS	☐ 1.2mm	☒ 1.5mm	☐ 2.0mm
IP PROTECTION FOR SWITCHGEAR	☐ IP31	☐ IP42	☒ IP65
FORMS OF SEPERATION	☒ 1	☐ 2B	☐ 3B
	☐ 4A	☐ 4B	
OPERATION	☒ FRONT	☐ FRONT & REAR	
LOCATION	☐ INDOOR	☒ OUTDOOR	
ACCESSIBILITY	☐ STANDING TYPE	☒ WALL MOUNTED	
CABLES ENTRY	: BOTTOM		
MODULE	: 1 MODULE		
LABEL	: WHITE LETTER – BLACK BACKGROUND		

SIZE BUSBAR AND CABLE		
S/NO.	AMPERE RATING	BUSBAR & CABLE SIZE SYSTEM INTERNAL PANEL
1	6300A	3 X 160mm X 10mm TINNED COPPER BUSBAR
		4 X 160mm X 10mm TINNED COPPER BUSBAR
2	5000A	3 X 150mm X 10mm TINNED COPPER BUSBAR
		4 X 120mm X 10mm TINNED COPPER BUSBAR
3	4000A	3 X 100mm X 10mm TINNED COPPER BUSBAR
		4 X 80mm X 10mm TINNED COPPER BUSBAR
4	3200A	3 X 80mm X 10mm TINNED COPPER BUSBAR
5	2000A-2500A	2 X 100mm X 10mm TINNED COPPER BUSBAR
6	2000A(OUTGOING)	2 X 80mm X 10mm TINNED COPPER BUSBAR
7	1250A-1600A	100mm X 10mm TINNED COPPER BUSBAR
		2 X 55mm X 10mm TINNED COPPER BUSBAR
8	1250A(OUTGOING)	2 X 50mm X 10mm TINNED COPPER BUSBAR
9	1000A	80mm X 10mm TINNED COPPER BUSBAR
		2 X 50mm X 10mm TINNED COPPER BUSBAR
10	800A	45mm X 12.7mm TINNED COPPER BUSBAR
11	500-600A	40mm X 10mm TINNED COPPER BUSBAR
12	300-400A	30mm X 10mm TINNED COPPER BUSBAR
13	250A	25.4mm X 6.35mm TINNED COPPER BUSBAR
		120mm ² FLEXIBLE CABLE
14	200A	25.4mm X 6.35mm TINNED COPPER BUSBAR
		95mm ² FLEXIBLE CABLE
15	160A	25.4mm X 6.35mm TINNED COPPER BUSBAR
		70mm ² FLEXIBLE CABLE
16	125A	19mm X 6.35mm TINNED COPPER BUSBAR
		50mm ² FLEXIBLE CABLE
17	100A	19mm X 6.35mm TINNED COPPER BUSBAR
		35mm ² FLEXIBLE CABLE
18	80A	25mm ² FLEXIBLE CABLE
19	50-63A	16mm ² FLEXIBLE CABLE
20	40A	10mm ² FLEXIBLE CABLE
21	32A	6mm ² FLEXIBLE CABLE
22	20A	4mm ² FLEXIBLE CABLE
23	16A	2.5mm ² FLEXIBLE CABLE
24	10A	1.5mm ² FLEXIBLE CABLE

LEGEND		
S/NO.	SYMBOL	DESCRIPTION
1		AIR CIRCUIT BREAKER – DRAWOUT
2		AIR CIRCUIT BREAKER – FIXED
3		MOULDED CASE CIRCUIT BREAKERS
4		MINIATURE CIRCUIT BREAKER
5		RESIDUAL CURRENT CIRCUIT BREAKER
6		RESIDUAL CURRENT BREAKER WITH OVERCURENT PROTECTED
7		AUTO TRANSFER SWITCH
8		DISCHARGE REACTOR
9		CAPACITOR BANK
10		LED INDICATOR LIGHT
11		SHUNT TRIP
12		FUSE
13		MCT – MEASUREMENT CURRENT TRANSFORMER PCT – PROTECTED CURRENT TRANSFORMER
14		IDMTL – EARTH FAULT AND OVERCURRENT PROTECTION RELAY
15		IDL – EARTH FAULT PROTECTION RELAY
16		IDMTL – OVERCURRENT PROTECTION RELAY
17		DTL – EARTH LEAKAGE RELAY
18		AUTO POWER FACTORY CONTROLLER
19		DIGITAL POWER METER
20		ZERO CURRENT TRANSFORMER
21		SOCKET OUTLET
22		FLUORESCENT LAMP
23		LIMITED DOOR SWITCH
24		THERMOSTART
25		EXHAUST FAN
26		HEATER
27		SURGE ARRESTOR
28		EARTH POINT
29		SOFT STARTER
30		DIRECT OLINE STARTER
31		STAR/DELTA STARTER
32		VARIABLE SPEED DRIVE STARTER
33		VOLT METER
34		AMPERE METER
35		VOLT/SWITCH
36		AMPERE/SWITCH
37		CONTACTOR
38		OVERLOAD RELAY
39		RELAY
40		TOGGLE LOCKING DEVICE
41		TRANSDUCER

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☐ Approved
☐ Approved with comments
☐ Approved with comments & resubmit
☐ Not Approved

Signature _____ Date _____
for Superintending Officer

Drawing Status
☐ SUBMISSION
☐ FOR CONSTRUCTION
☒ AS-BUILT

	Name	Date	Sign
Designed	T.V.HOP	17/08/21	
Checked	P.C.TRUNG	17/08/21	
Approved	N.V.CHUNG	17/08/21	
Scale	N.T.S	Paper size	A3

Drawing Title :

100A PANEL
(TECHNICAL DATA)

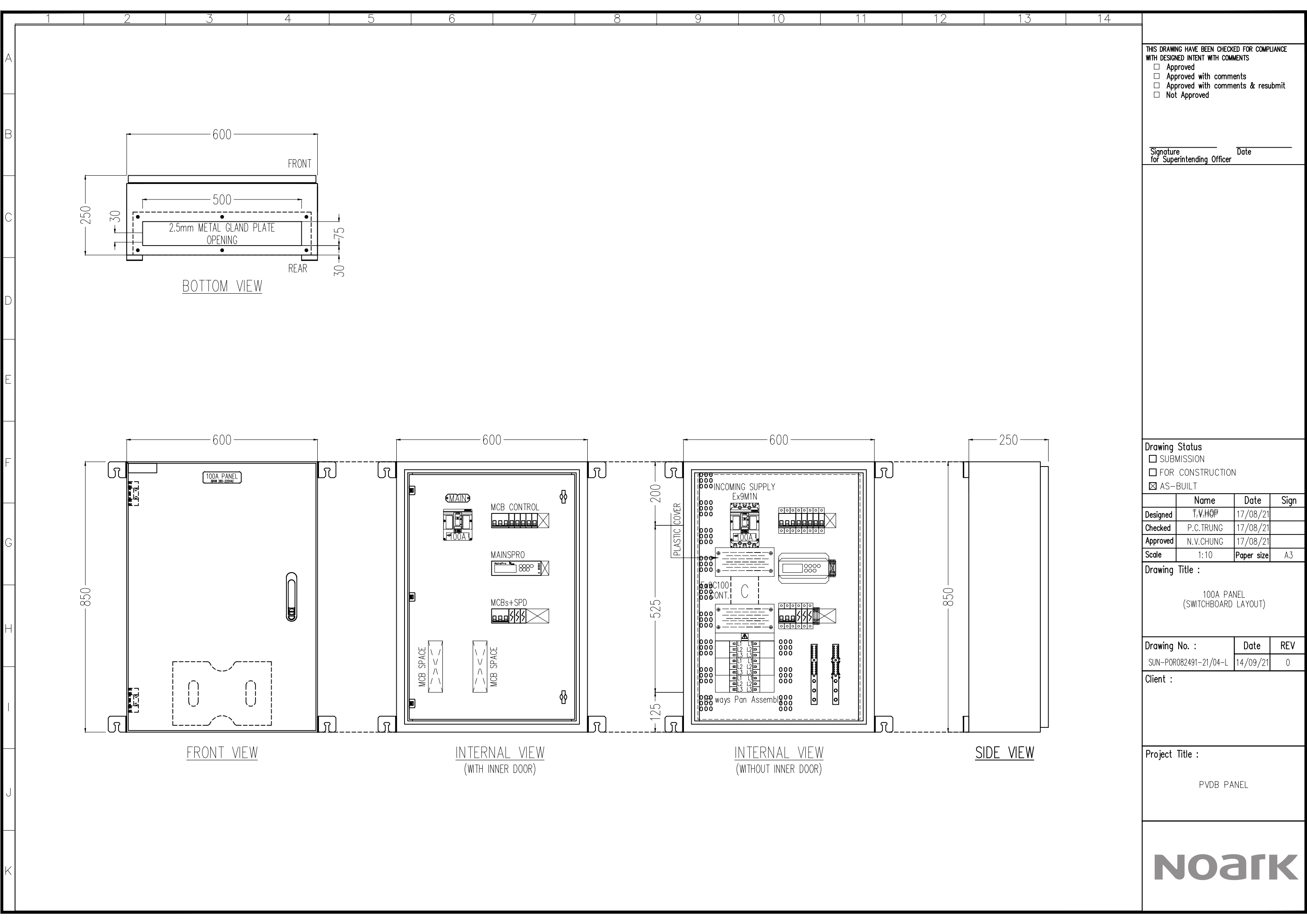
Drawing No. :	Date	REV
SUN-POR082491-21/04-G	14/09/21	0

Client :

Project Title :

PVDB PANEL

NOARK



THIS DRAWING HAVE BEEN CHECKED FOR COMPLIANCE WITH DESIGNED INTENT WITH COMMENTS

- ☐ Approved
- ☐ Approved with comments
- ☐ Approved with comments & resubmit
- ☐ Not Approved

Signature _____ Date _____
for Superintending Officer

Drawing Status

- ☐ SUBMISSION
- ☐ FOR CONSTRUCTION
- ☒ AS-BUILT

	Name	Date	Sign
Designed	T.V.HOP	17/08/21	
Checked	P.C.TRUNG	17/08/21	
Approved	N.V.CHUNG	17/08/21	
Scale	1:10	Paper size	A3

Drawing Title :

100A PANEL
(SWITCHBOARD LAYOUT)

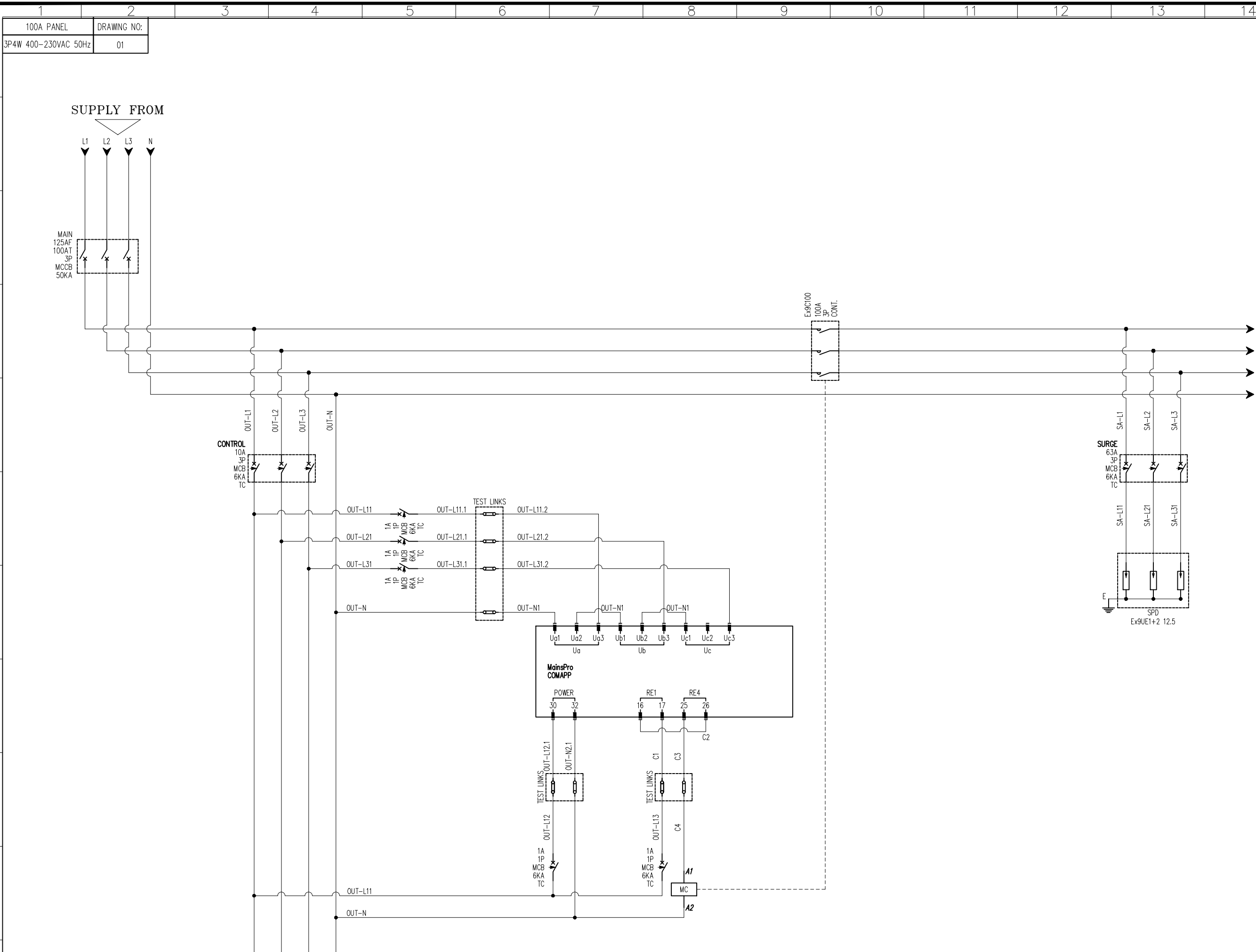
Drawing No. :	Date	REV
SUN-POR082491-21/04-L	14/09/21	0

Client :

Project Title :

PVDB PANEL

NOARK



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☐ Approved

☐ Approved with comments

☐ Approved with comments & resubmit

☐ Not Approved

Signature for Superintending Officer

Date

Drawing Status

☐ SUBMISSION

☐ FOR CONSTRUCTION

☒ AS-BUILT

	Name	Date	Sign
Designed	T.V.HOP	17/08/21	
Checked	P.C.TRUNG	17/08/21	
Approved	N.V.CHUNG	17/08/21	
Scale	N.T.S	Paper size	A3

Drawing Title :

100A PANEL
(CONTROL CIRCUIT)

Drawing No. :

Date

REV

SUN-POR082491-21/04-C14/09/210

Client :

Project Title :

PVDB PANEL

NOARK