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1	2	3	4	5	6	7	8
DIAGRAM LIST (1)							
ITEM	DESCRIPTIONS	DWG.	Rev.	ITEM	DESCRIPTIONS	DWG.	Rev.
1	DIAGRAM LIST	A01	A	51	GIS Q03 ALARM STATUS SIGNAL FOR RTU	K03B	A
2	LEGEND ILLUSTRATION	B01	A	52	161KV RCP IN01 RELAY & 43 STATUS FOR RTU	K03C	A
3	SINGLE LINE DIAGRAM	C01	A	53	GIS Q04 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K04A	A
4	DC POWER SUPPLY DIAGRAM	C02	A	54	GIS Q04 ALARM STATUS FOR RTU	K04B	A
5	GIS Q01 CT & RCP F01 PROTECTION RELAY CIRCUIT DIAGRAM	D01	A	55	RCP F03 PROTECTION RELAY & 43 STATUS FOR RTU	K04C	A
6	GIS Q02 CT & RCP F02 PROTECTION RELAY CIRCUIT DIAGRAM	D02	A	56	GIS Q05 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K05A	A
7	GIS Q03 (MOF CT & PT) CIRCUIT DIAGRAM	D03A	A	57	GIS Q05 ALARM STATUS FOR RTU	K05B	A
8	GIS Q03 CT & RCP IN01 PROTECTION RELAY CIRCUIT DIAGRAM	D03B	A	58	RCP F04 PROTECTION RELAY & 43 STATUS FOR RTU	K05C	A
9	GIS Q03 (MOF CT / PT / BUS PT) CIRCUIT DIAGRAM	D03C	A	59	LIGHTING CIRCUIT DIAGRAM FOR RCP	L01	A
10	GIS Q04 CT & RCP F03 PROTECTION RELAY CIRCUIT DIAGRAM	D04	A	60	MATERIAL LIST	M01	A
11	GIS Q05 CT & RCP F04 PROTECTION RELAY CIRCUIT DIAGRAM	D05	A	61	CONTROL PANEL FRONT VIEW	P01	A
12	87B PROTECTION RELAY CIRCUIT DIAGRAM	DBP	A	62	CONTROL PANEL BASE CHANNEL VIEW	P02	A
13	GIS Q01 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F01	E01	A	63	CONTROL PANEL TOP CHANNEL VIEW	P03	A
14	GIS Q02 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F02	E02	A	64	CONTROL PANEL SIDE VIEW	P04	A
15	GIS Q03 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP IN01	E03	A	65	CONTROL PANEL REAR VIEW	P05	A
16	GIS Q04 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F03	E04	A	66	電驛及控制盤製裝規範一	Q01	A
17	GIS Q05 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F04	E05	A	67	電驛及控制盤製裝規範二	Q02	A
18	GIS Q01 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F01	F01	A	68	電驛及控制盤製裝規範三	Q03	A
19	GIS Q02 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F02	F02	A	69	TRIP LOGICAL DIAGRAM FOR RCP F01	X01	A
20	GIS Q03 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP IN01	F03	A	70	TRIP LOGICAL DIAGRAM FOR RCP F02	X02	A
21	GIS Q04 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F03	F04	A	71	TRIP LOGICAL DIAGRAM FOR RCP IN01	X03	A
22	GIS Q05 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F04	F05	A	72	TRIP LOGICAL DIAGRAM FOR RCP F03	X04	A
23	GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G01A	A	73	TRIP LOGICAL DIAGRAM FOR RCP F04	X05	A
24	GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G01B	A	74			
25	GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G02A	A	75			
26	GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G02B	A	76			
27	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G03A	A	77			
28	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G03B	A	78			
29	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (1)	G03C	A	79			
30	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (2)	G03D	A	80			
31	GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G04A	A	81			
32	GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G04B	A	82			
33	GIS Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G05A	A	83			
34	GIS Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G05B	A	84			
35	87B PROTECTION RELAY TRIP CIRCUIT DIAGRAM	GBP	A	85			
36	ALARM SYSTEM 30RY-1 CIRCUIT DIAGRAM FOR RCP F01	H01	A	86			
37	ALARM SYSTEM 30RY-2 CIRCUIT DIAGRAM FOR RCP F02	H02	A	87			
38	ALARM SYSTEM 30RY-3 CIRCUIT DIAGRAM FOR RCP IN01	H03	A	88			
39	ALARM SYSTEM 30RY-4 CIRCUIT DIAGRAM FOR RCP F03	H04	A	89			
40	ALARM SYSTEM 30RY-5 CIRCUIT DIAGRAM FOR RCP F04	H05	A	90			
41	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F01 & RCP F02	I01	A	91			
42	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP IN01	I02	A	92			
43	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F03 & RCP F04	I03	A	93			
44	GIS Q01 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K01A	A	94			
45	GIS Q01 ALARM STATUS FOR RTU	K01B	A	95			
46	RCP F01 PROTECTION RELAY & 43 STATUS FOR RTU	K01C	A	96			
47	GIS Q02 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K02A	A	97			
48	GIS Q02 ALARM STATUS FOR RTU	K02B	A	98			
49	RCP F02 PROTECTION RELAY & 43 STATUS FOR RTU	K02C	A	99			
50	GIS Q03 CB,DS,ES ON-OFF STATUS FOR SCADA (7SL85)	K03A	A	100			

			Project	VENA ENERGY	Approved by	Date	2021-06-18	Title	DIAGRAM LIST	Doc. des.	DWG. NO.	VENA- A01
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Checked by	Date	2021-06-18	台灣日立電網股份有限公司		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Jeff Lu							
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by	Date	2021-06-18	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua						Cont. ~	

1 2 3 4 5 6 7 8

A

B

C

D

E

F

ITEM	SYMBOLS	DESCRIPTION
1	21	DISTANCE RELAY
2	67	DIRECTIVE OVER CURREN RELAY
3	50/51 50N/51N	OVER CURRENT RELAY
4	81H/L	FREQUENCY RELAY
5	50N/51N	GROUND OVER CURRENT RELAY
6	87T	TRANSFORMER DIFFERENTIAL RELAY
7	30	ANNUNCIATOR RELAY
8	87B	BUS DIFFERENTIAL RELAY
9	27/59	COMBINED OVERVOLTAGE AND UNDERVOLTAGE RELAY
10	86B	BUS LOCKOUT RELAY
11	86L	LINE LOCKOUT RELAY
12	86T	TRANSFORMER LOCKOUT RELAY
13	59Vo 59G	GROUND OVER VOLTAGE RELAY
14	V	VOLTAGE METER
15	V V/TD	VOLTAGE TRANSDUCER
16	A	AMPER METER
17	A A/TD	CURRENT TRANSDUCER

ITEM	SYMBOLS	DESCRIPTION
18	WH	WH METER
19	W	W METER
20	W	WATT TRANSDUCER
21	KVAR	VAR METER
22	PF	POWER FACTOR METER
23	PF	PF TRANSDUCER
24	M	MOTOR OPERATED EARTHING SWITCH
25	T	MANAUL OPERATED EARTHING SWITCH
26		CURRENT TRANSFORMER
27		BUS PT
28		POWER TRANSFORMER
29		CTT
30		EARTHING
31		NORMAL OPEN CONTACT
32		NORMAL CLOSE CONTACT
33	TB1	WIRING TERMINAL
34	1 6/C 3.5	WIRE NUMBER AND SIZE

ITEM	SYMBOLS	DESCRIPTION
35	BZ	BUZZER
36		LIMIT SWITCH
37		D FUSE
38	TC	TRIPPING COIL
39	P	WIRING COIL
40	QO	161KV GCB
41	M	MOTOR OPERATED DISCONNECTING SWITCH
42	KVAR	VAR TRANSOU CER
43		INDICATING LAMP
44		PUSH BUTTON SWITCH
45		PTT
46	WVAR	W AND VAR TRANSDUCER
47	32	POWER RELAY
48	85	PILOT WIRE RELAY
49	51G	GROUND OVER CURRENT RELAY
50	43	切換開關
51	87L	LINE DIFFERENTIAL RELAY

A

B

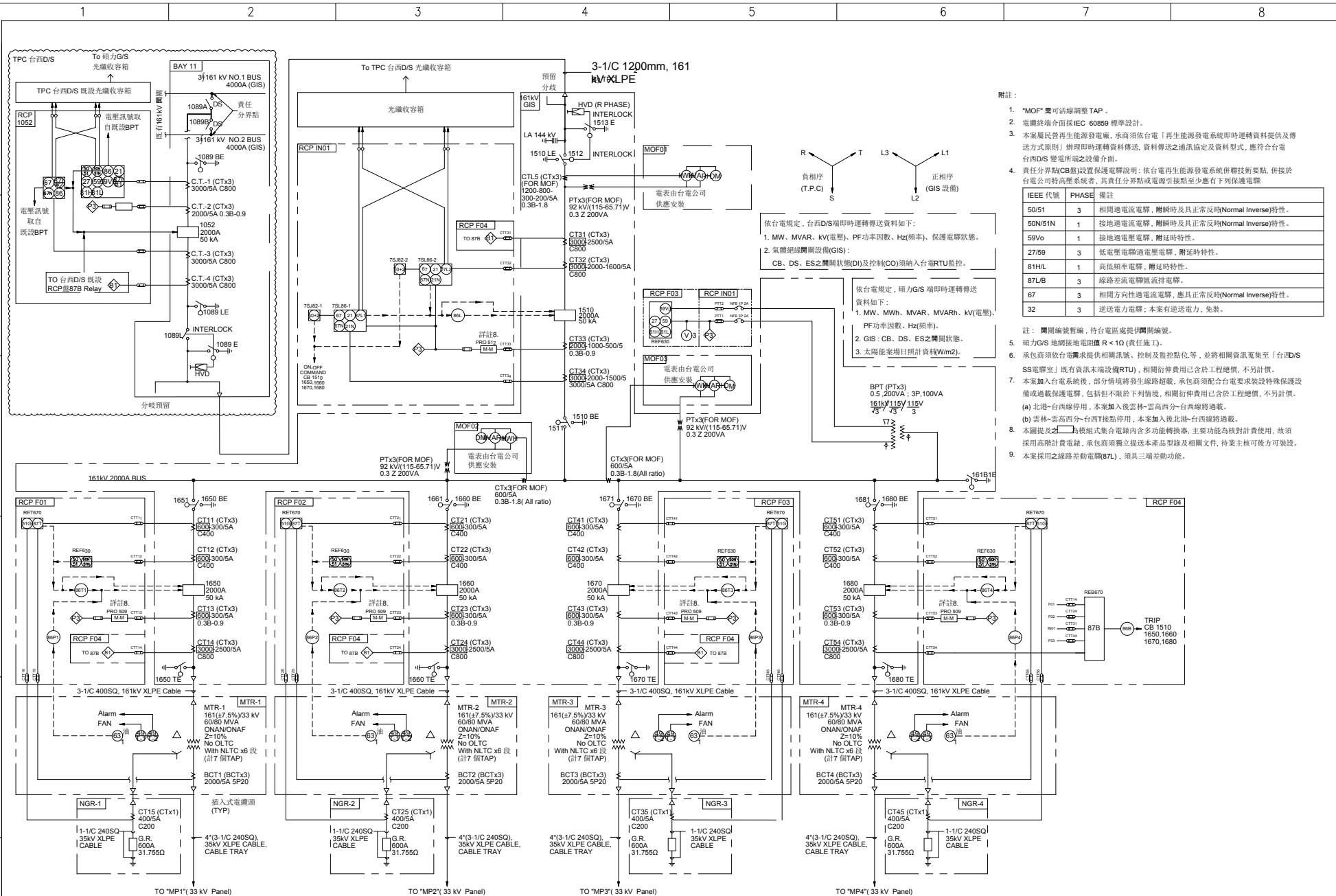
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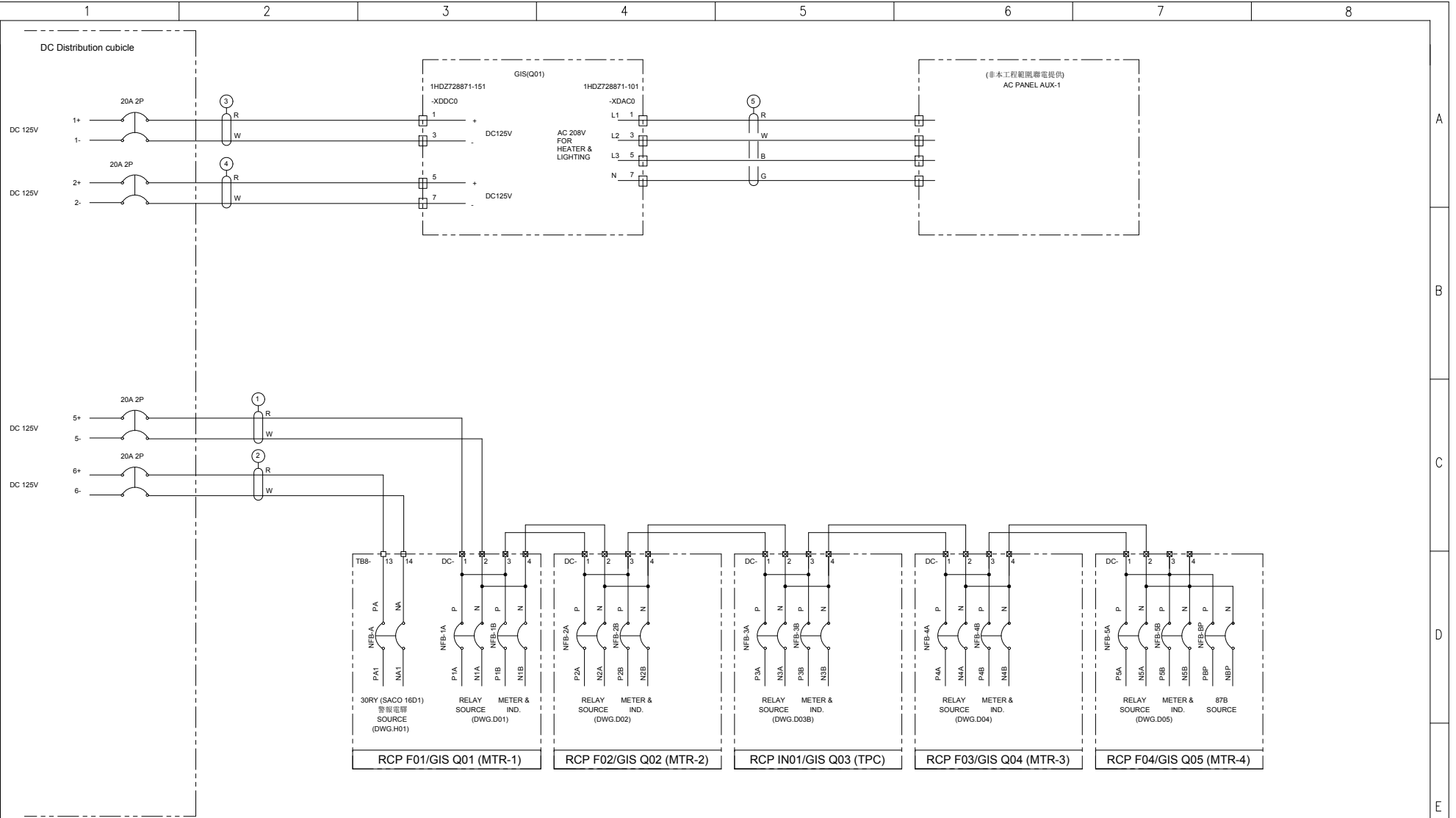
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			Project		VENA ENERGY	Approved by	Date	Title	LEGEND ILLUSTRATION	Doc. des.	DWG. NO. VENA-B01	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Checked by	Date		Resp. dept.	Scale	Lang.	
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1			
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18				Cont. ~		



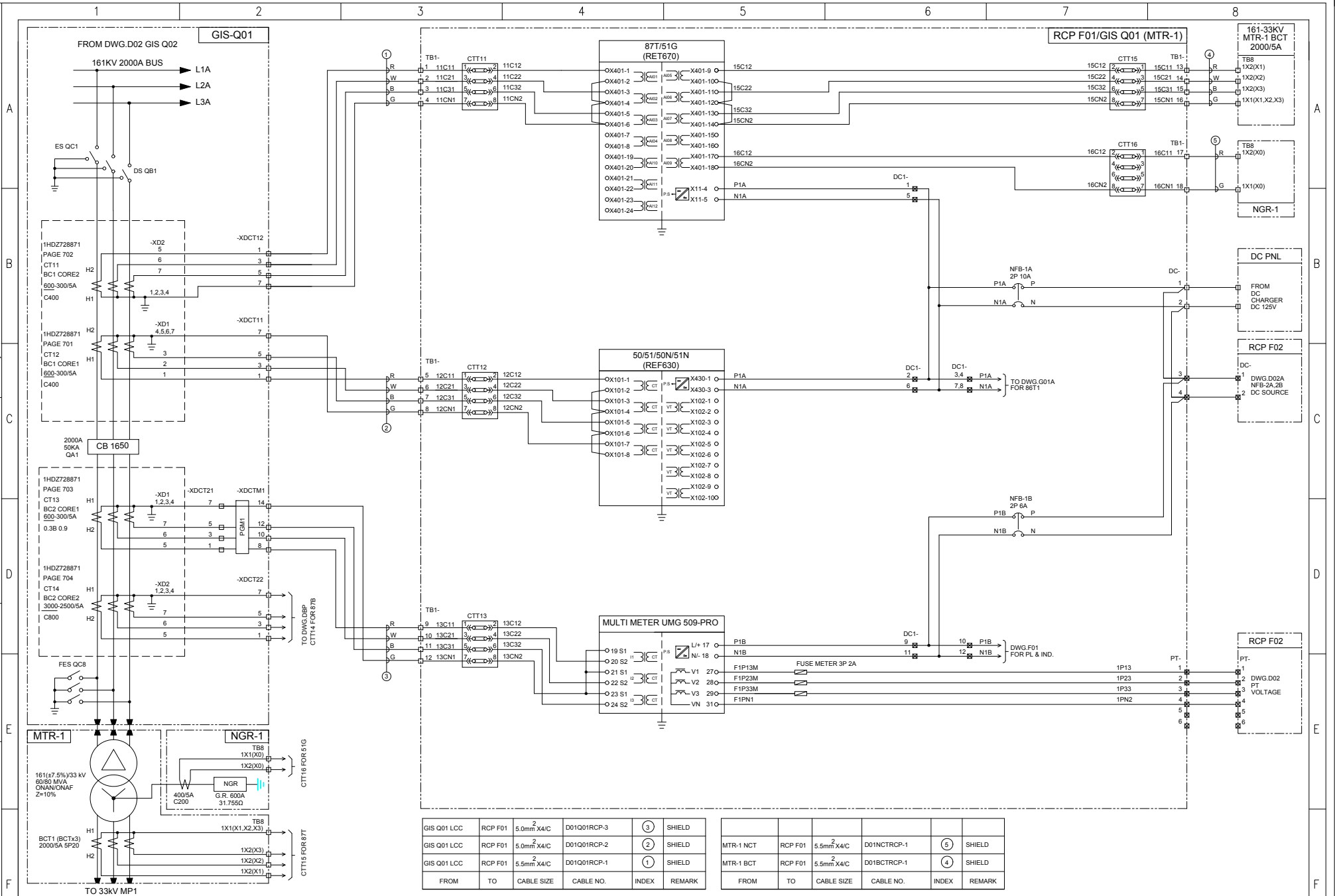
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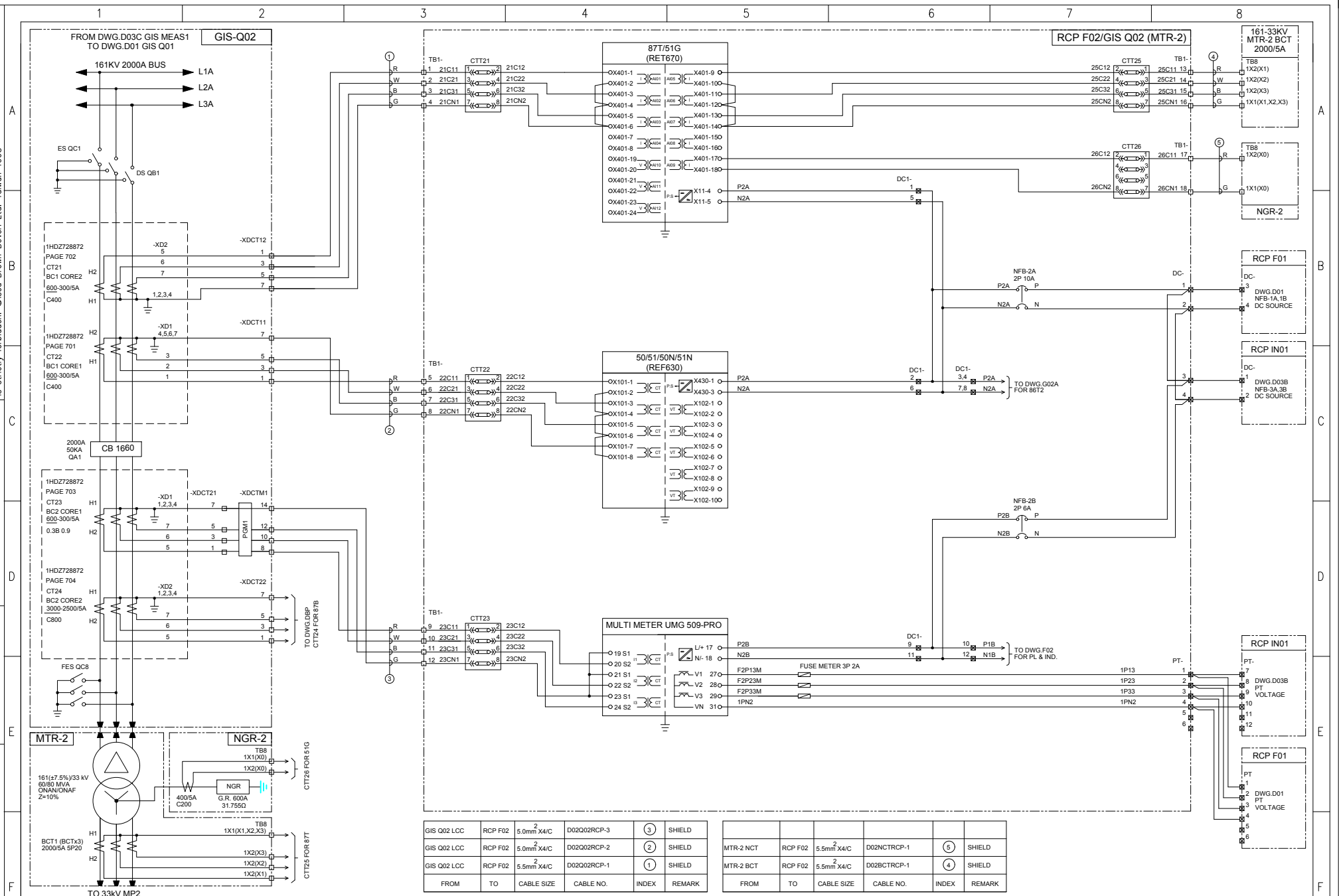
AC PANEL	GIS Q01	5.5mm ² X4/C	C02ACPGIS-1	⑤	
DC PANEL	GIS Q01	5.5mm ² X4/C	C02DCPGIS-2	④	
DC PANEL	GIS Q01	5.5mm ² X4/C	C02DCPGIS-1	③	
DC PANEL	RCP F01	5.5mm ² X4/C	C02DCPRCP-2	②	
DC PANEL	RCP F01	5.5mm ² X4/C	C02DCPRCP-1	①	
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-C02	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Checked by	Jeff Lu	2021-06-18		DC POWER SUPPLY DIAGRAM		Resp. dept.		Scale	Lang.
For Approval	2021-09-06	B			Prepared by	Jeff Lu	2021-06-18				Doc. No.		Sheet 1	Cont. ~
For Approval	2021-08-17	A	Customer 韋能台西		Chuan Hua		2021-06-18		台灣日立電網股份有限公司					
Issued for	Date	Rev.	Derived fm	Replaces										

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Project			VENA ENERGY		Title		Doc. des.		DWG. NO. VENA-D01	
161KV GIS S/S PROJECT			Approved by		Date		Resp. dept.		Scale	
Customer 韋能台西			Jeff Lu		2021-06-18		Lang.		Sheet 1	
Rev. Derived fm			Checked by		Date		Doc. No.		Cont. ~	
Replaces			Jeff Lu		2021-06-18		台灣日立電網股份有限公司			
			Prepared by		Date					
			Chuan Hua		2021-06-18					



GIS Q02 LCC	RCP F02	5.0mm ² X4/C	D02Q02RCP-3	③	SHIELD
GIS Q02 LCC	RCP F02	5.0mm ² X4/C	D02Q02RCP-2	②	SHIELD
GIS Q02 LCC	RCP F02	5.5mm ² X4/C	D02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-2 NCT	RCP F02	5.5mm ² X4/C	D02NCTRCP-1	⑤	SHIELD
MTR-2 BCT	RCP F02	5.5mm ² X4/C	D02BCTRCP-1	④	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

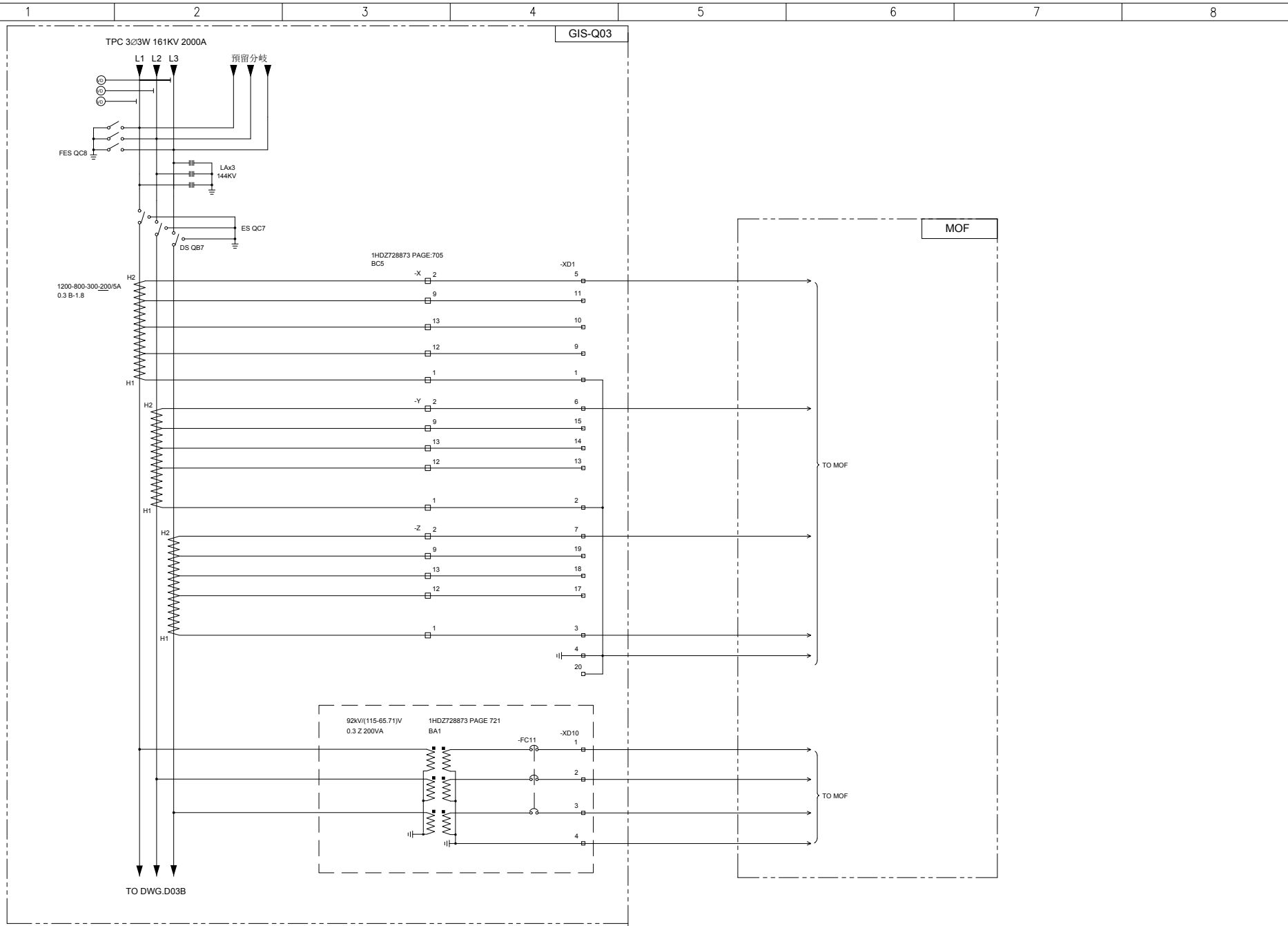
			Project	
For Approval	2021-09-08	C	VENA ENERGY	
For Approval	2021-09-06	B	161KV GIS S/S PROJECT	
For Approval	2021-08-17	A	Customer 韋能台西	
Issued for	Date	Rev.	Derived fm	Replaces

Approved by Jeff Lu	Date 2021-06-18
Checked by Jeff Lu	Date 2021-06-18
Prepared by Chuan Hua	Date 2021-06-18

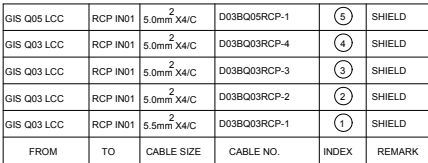
<p>Title</p> <p>GIS Q02 CT & RCP F02 PROTECTION RELAY CIRCUIT DIAGRAM</p>	
<p>台灣日立電網股份有限公司</p>	

Doc. des.	DWG. NO. VENA-D02	
Resp. dept.	Scale	Lang.
Doc. No.		Sheet 1
		Cont. ~

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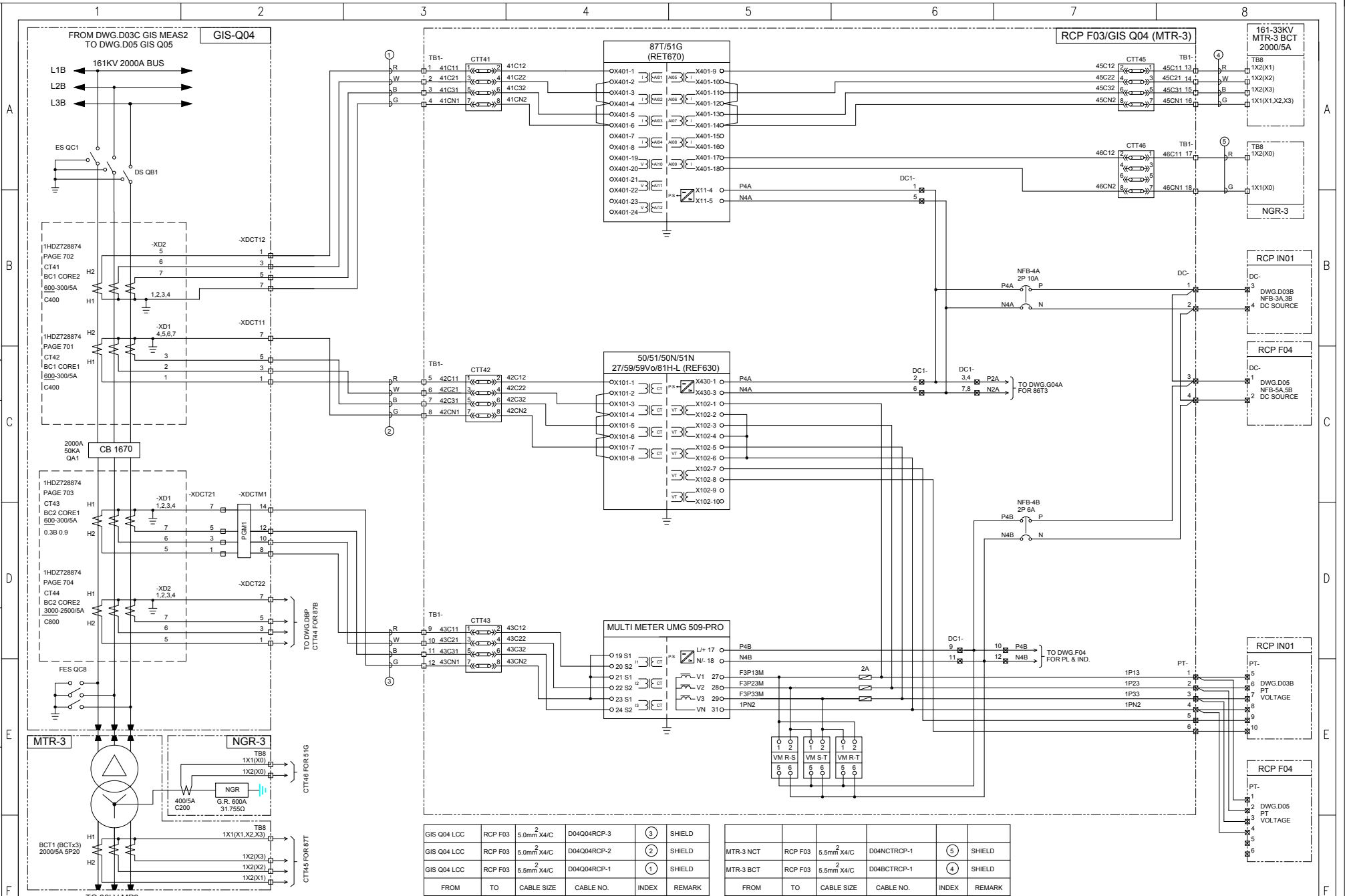


			Project			VENA ENERGY	Approved by	Date	Title	GIS Q03 MOF CT & PT CIRCUIT DIAGRAM	Doc. des.	DWG. NO.	VENA- D03A	
For Approval	2021-09-08	C				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18						
For Approval	2021-09-06	B					Checked by	Date	台灣日立電網股份有限公司		Resp. dept.	Scale	Lang.	
For Approval	2021-08-17	A	Customer 韋能台西				Jeff Lu	2021-06-18			Doc. No.			Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces			Prepared by	Date					Cont. ~	
							Chuan Hua	2021-06-18						

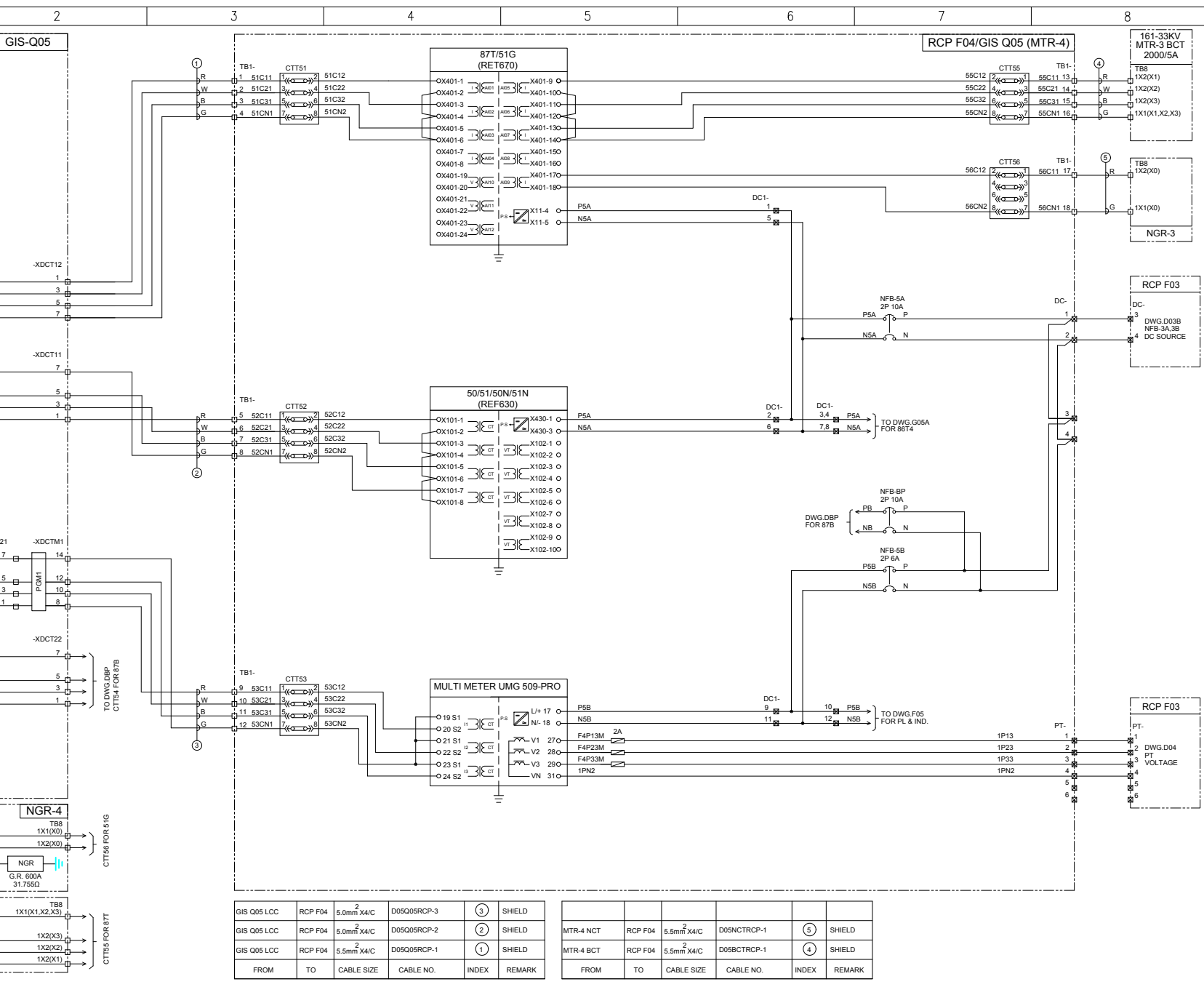


			Project			VENA ENERGY	Approved by	Date	Title	GIS Q03 CT & RCP IN01 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO.	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	VENA-D03B					
For Approval	2021-09-06	B				Checked by	Date	Resp. dept.			Scale	Lang.	
For Approval	2021-08-17	A				Customer 韋能台西			Prepared by	Date			Doc. No.
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	台灣日立電網股份有限公司		Cont. ~				

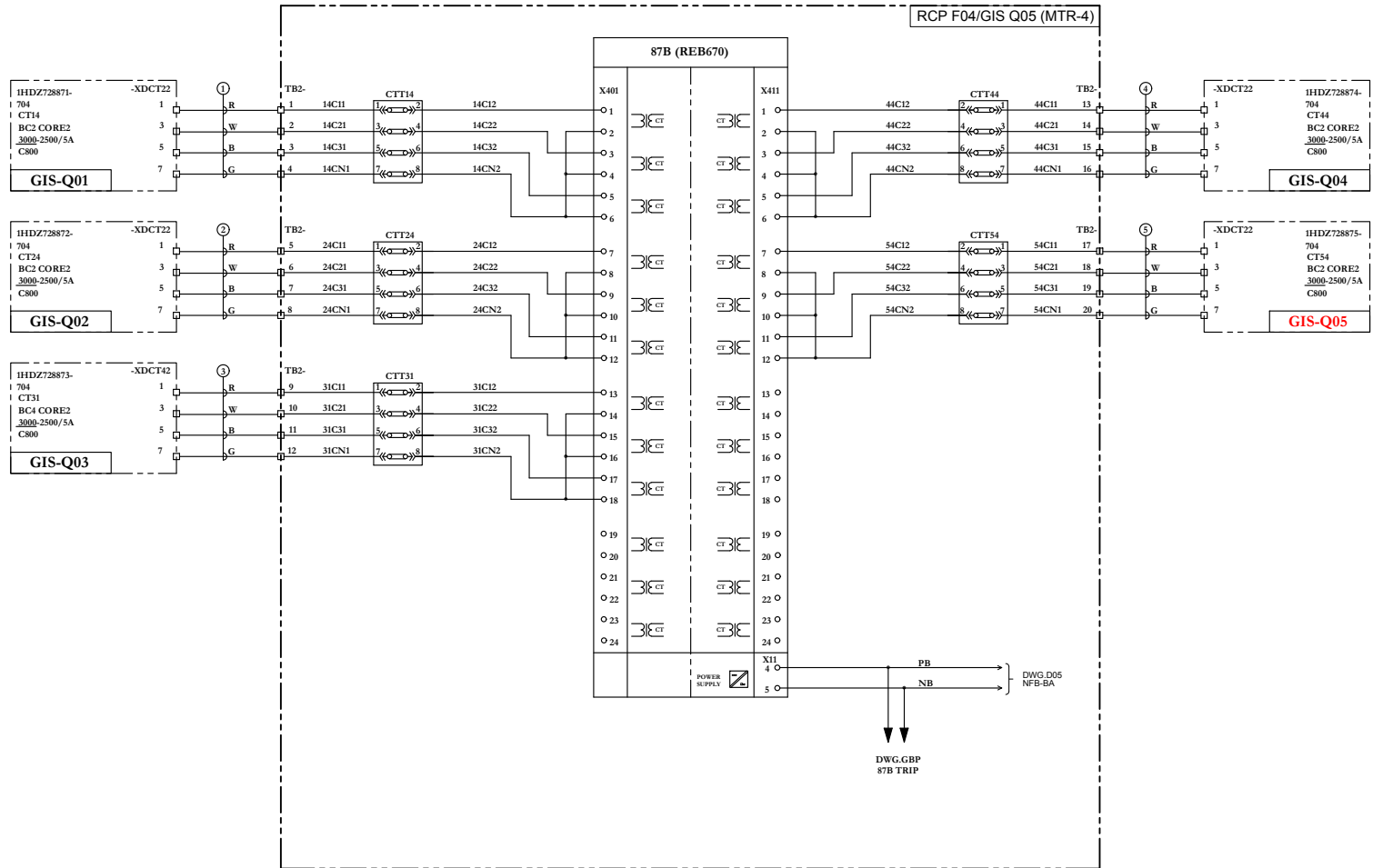
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Project			VENA ENERGY			Approved by			Title			Doc. des.			DWG. NO. VENA-D04		
For Approval			2021-09-08			Jeff Lu			2021-06-18			G5 Q05 CT & RCP F04 PROTECTION RELAY					
For Approval			2021-09-06			Jeff Lu			2021-06-18			CIRCUIT DIAGRAM			Scale		
For Approval			2021-08-17			Prepared by			Date			Doc. No.			Sheet 1		
Issued for			Date			Chuan Hua			2021-06-18			台灣日立電網股份有限公司			Cont. ~		
Rev.			Derived fm			Replaces											
Customer			韋能台西														

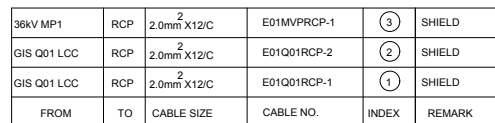


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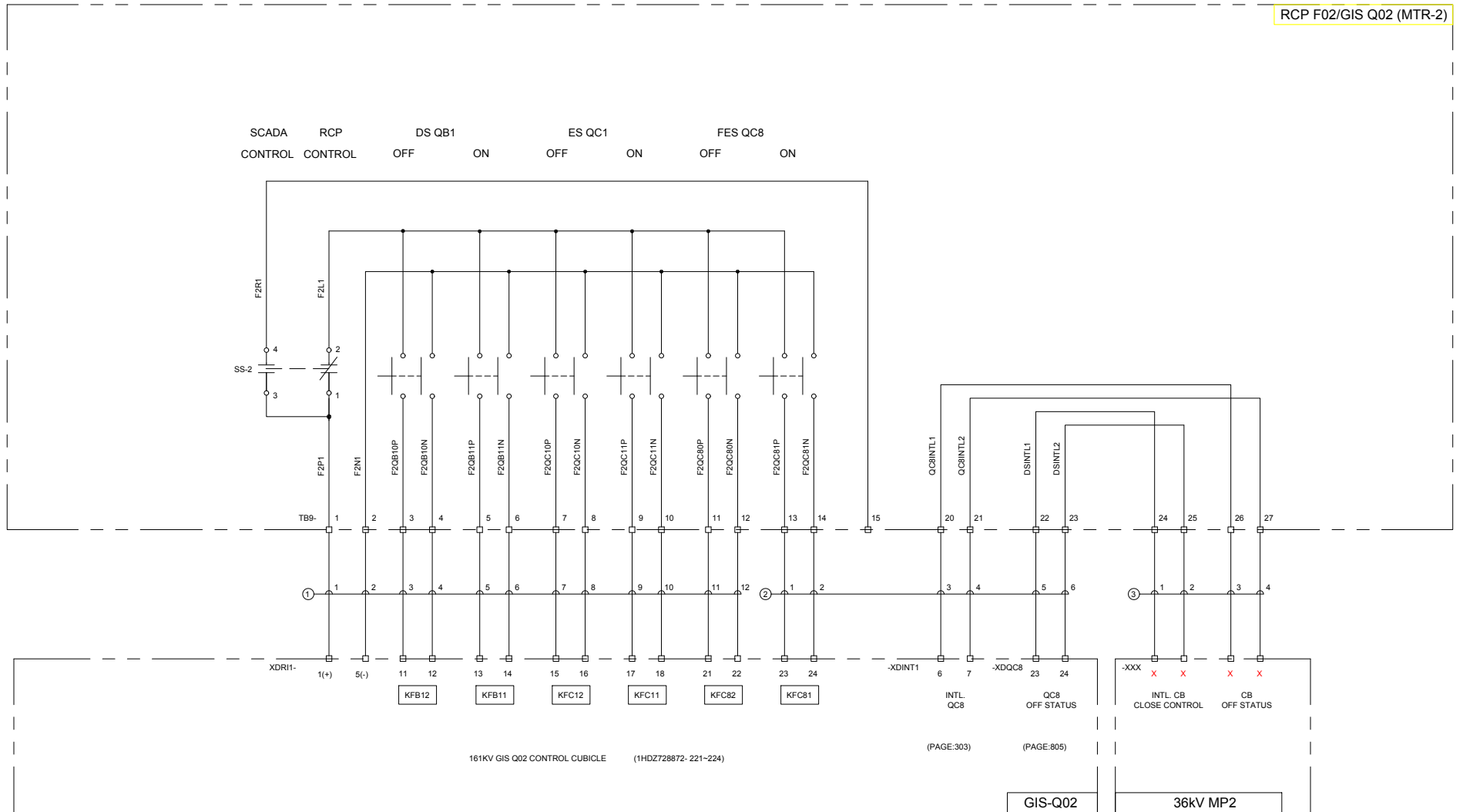
GIS Q05 LCC	RCP	² 5.5mm X4/C	DBPQ05RCP-1	⑤	SHIELD
GIS Q04 LCC	RCP	² 5.5mm X4/C	DBPQ04RCP-1	④	SHIELD
GIS Q03 LCC	RCP	² 5.5mm X4/C	DBPQ03RCP-1	③	SHIELD
GIS Q02 LCC	RCP	² 5.0mm X4/C	DBPQ02RCP-1	②	SHIELD
GIS Q01 LCC	RCP	² 5.5mm X4/C	DBPQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY		Approved by		Date		Title		87B PROTECTION RELAY		Doc. des.		DWG. NO. VENA-DBP	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT				Jeff Lu		2021-06-18				CIRCUIT DIAGRAM					
For Approval	2021-09-06	B					Jeff Lu		2021-06-18		Resp. dept.		Scale		Lang.			
For Approval	2021-08-17	A	Customer 韋能台西				Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1			
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18						Cont. ~					



			Project			Approved by	Date	Title	Doc. des.	DWG. NO.			
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu	2021-06-18			GIS Q01 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F01		VENA-E01	
For Approval	2021-09-06	B				Checked by	Date					2021-06-18	Resp. dept.
For Approval	2021-08-17	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.				Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	Cont.			~			

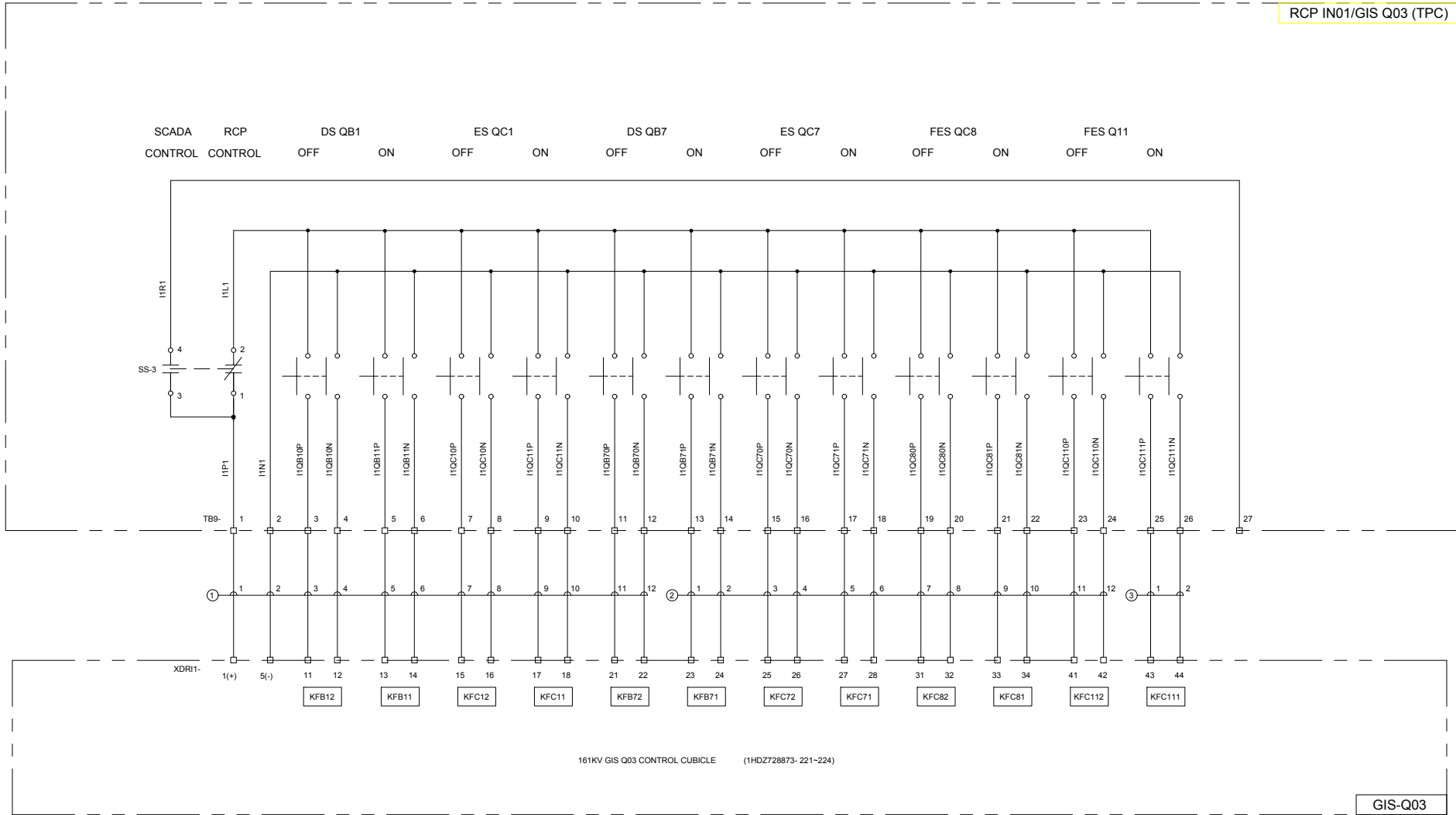
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36kV MP2	RCP	2.0mm ² X12/C	E02MVPRCP-1	③	SHIELD
GIS Q02 LCC	RCP	2.0mm ² X12/C	E02Q02RCP-2	②	SHIELD
GIS Q02 LCC	RCP	2.0mm ² X12/C	E02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-E02	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		GIS Q02 DS & ES ON-OFF					
For Approval	2021-09-06	B					Jeff Lu		2021-06-18		CONTROL DIAGRAM FOR RCP F02		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm		Replaces		Chuan Hua		2021-06-18						Cont. ~	

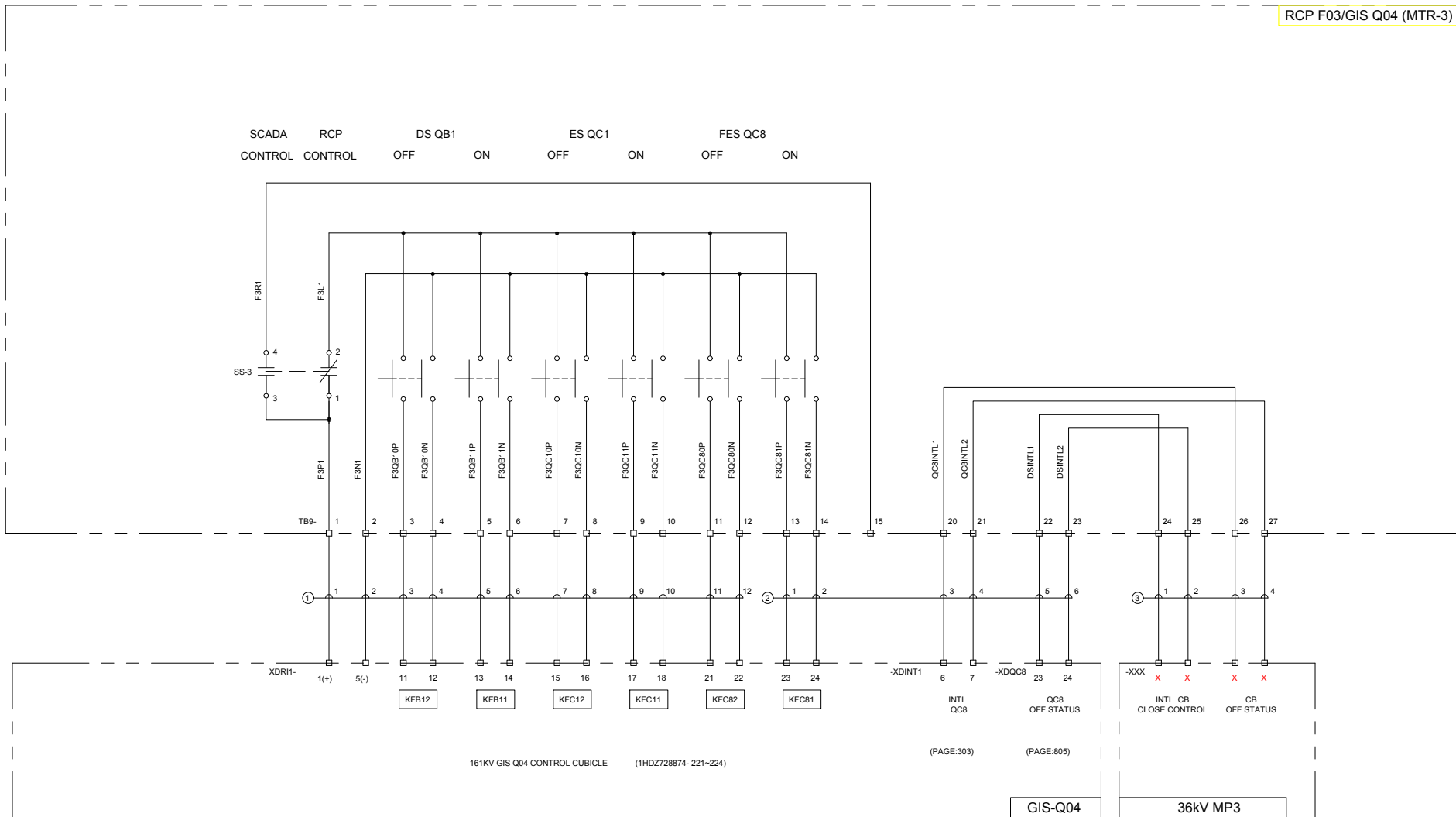
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GIS Q03 LCC	RCP	2.0mm ² X12/C	E03Q03RCP-3	③	SHIELD
GIS Q03 LCC	RCP	2.0mm ² X12/C	E03Q03RCP-2	②	SHIELD
GIS Q03 LCC	RCP	2.0mm ² X12/C	E03Q03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

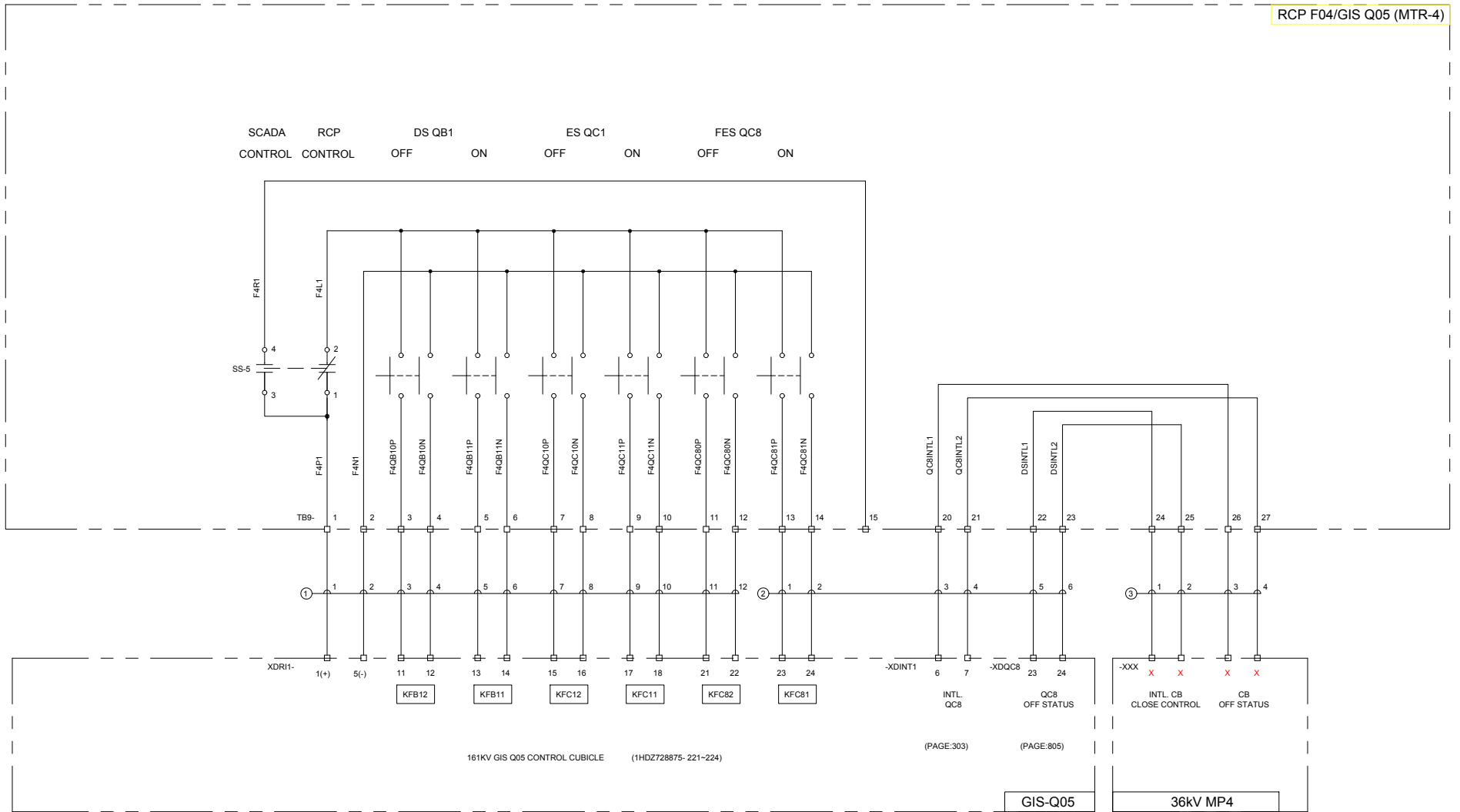
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For Approval	2021-09-08	C			161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		GIS Q03 DS & ES ON-OFF					
For Approval	2021-09-06	B					Jeff Lu		2021-06-18		CONTROL DIAGRAM FOR RCP IN01		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
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Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-E04	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		GIS Q04 DS & ES ON-OFF					
For Approval	2021-09-06	B			Jeff Lu		2021-06-18		CONTROL DIAGRAM FOR RCP F03		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18						Cont. ~	

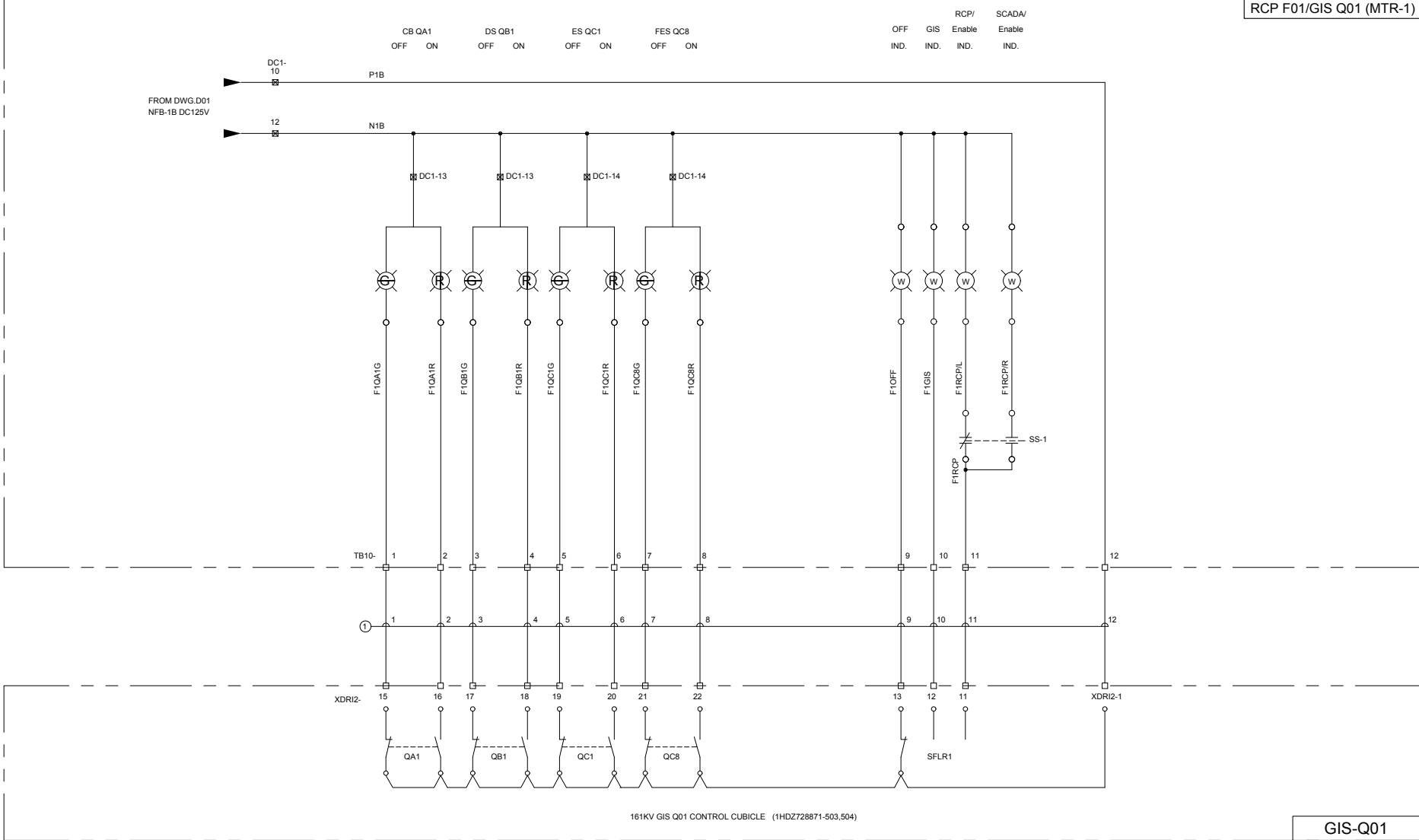
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36kV MP4	RCP	2.0mm ² X12/C	E05MVPRCP-1	③	SHIELD
GIS Q05 LCC	RCP	2.0mm ² X12/C	E05Q05RCP-2	②	SHIELD
GIS Q05 LCC	RCP	2.0mm ² X12/C	E05Q05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-E05	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		GIS Q05 DS & ES ON-OFF					
For Approval	2021-09-06	B					Jeff Lu		2021-06-18		CONTROL DIAGRAM FOR RCP F04		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm		Replaces		Chuan Hua		2021-06-18						Cont. ~	

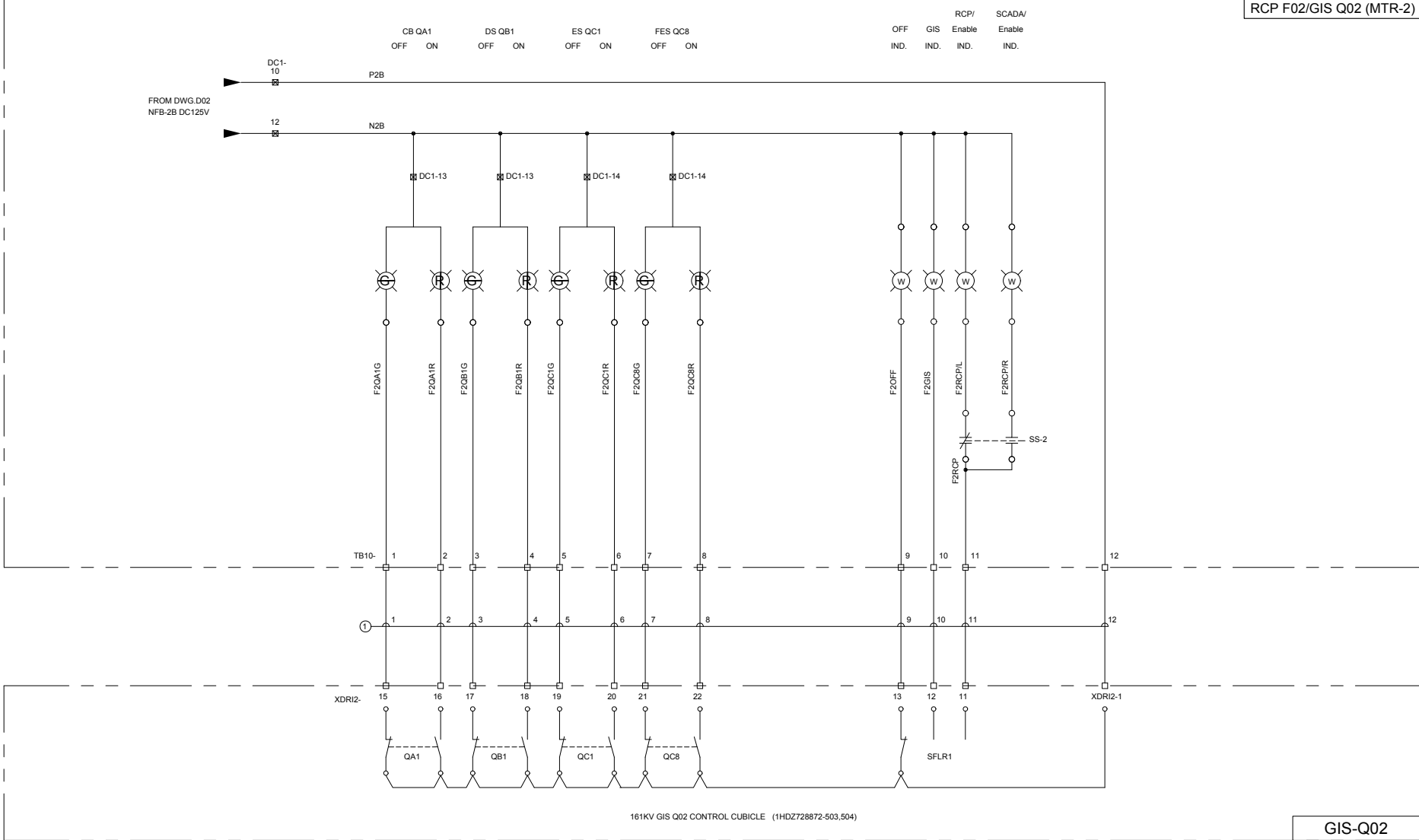
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GIS Q01 LOC	RCP	2.0mm ² X16/C	F01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-F01	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT				Jeff Lu		2021-06-18		GIS Q01 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F01					
For Approval	2021-09-06	B					Jeff Lu		2021-06-18				Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西				Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua		2021-06-18						Cont. ~	

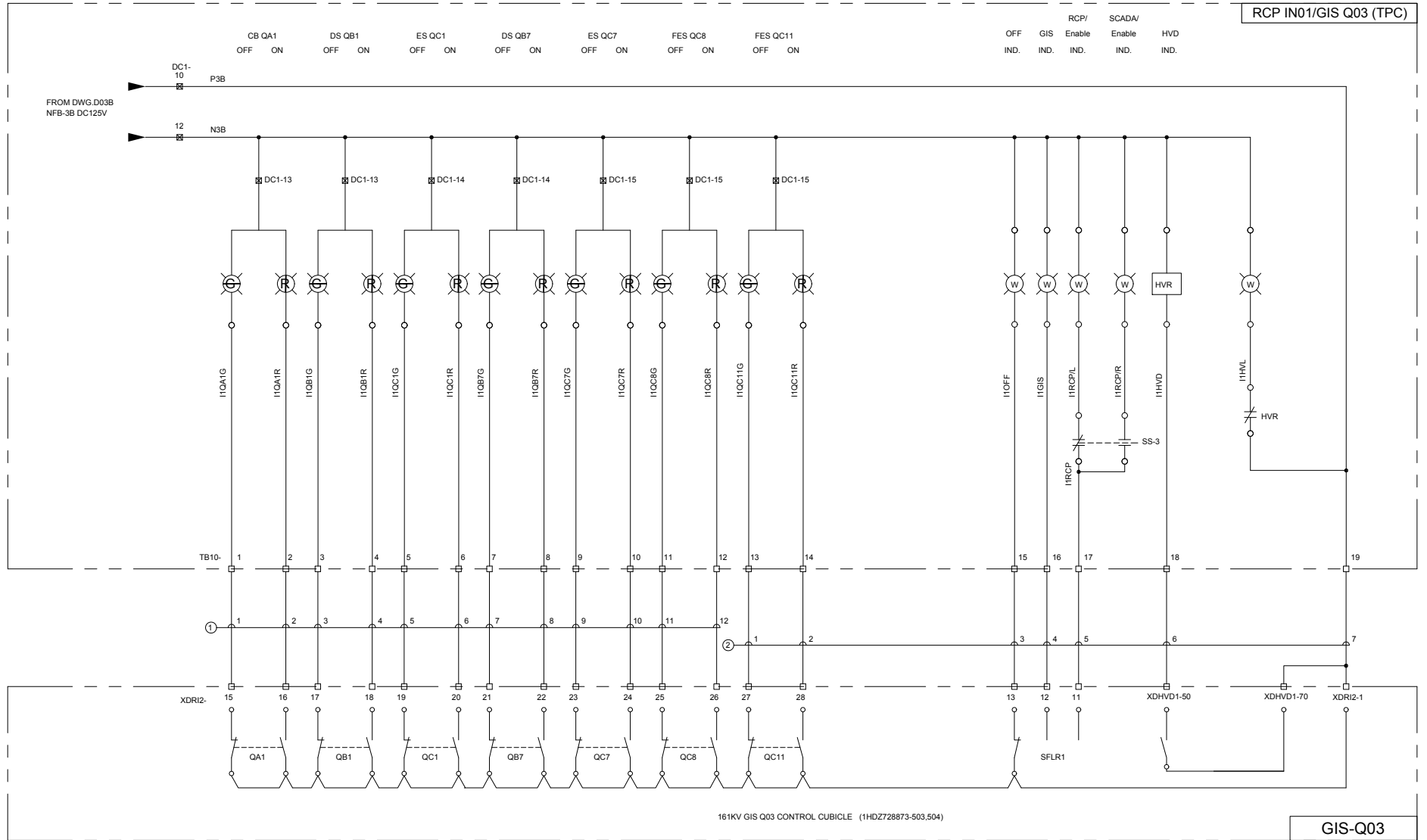
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GIS Q02 LOC	RCP	2.0mm ² X16/C	F02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-F02	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT				Jeff Lu		2021-06-18		GIS Q02 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F02					
For Approval	2021-09-06	B					Jeff Lu		2021-06-18				Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西				Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua		2021-06-18						Cont. ~	

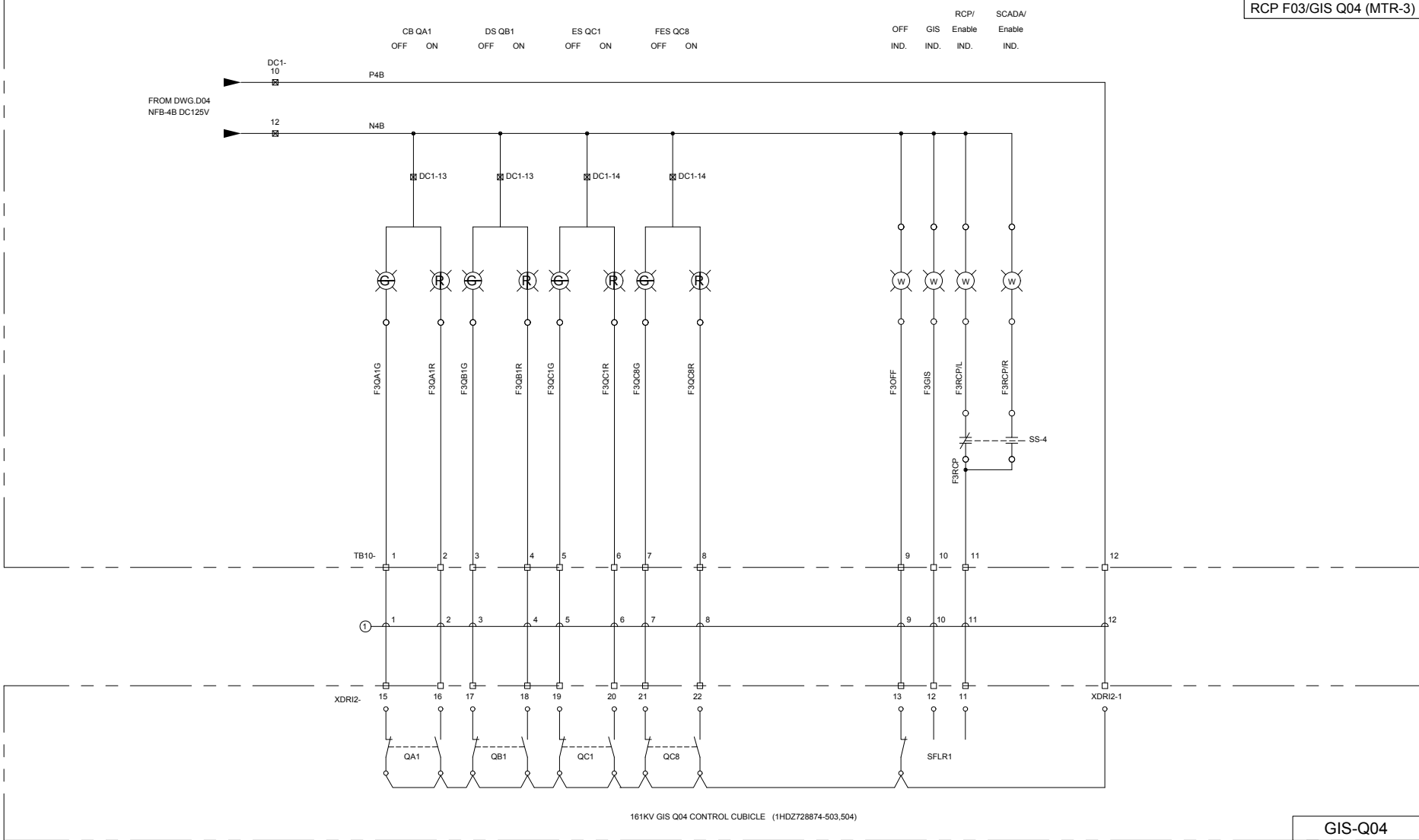
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GIS Q03 LOC	RCP	2.0mm ² X12/C	F03Q03RCP-2	②	SHIELD
GIS Q03 LOC	RCP	2.0mm ² X12/C	F03Q03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project			Approved by	Date	Title	GIS Q03 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP IN01	Doc. des.	DWG. NO.	
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Checked by	Date				VENA-F03	
For Approval	2021-09-06	B				Jeff Lu	2021-06-18			Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1		
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	Cont. ~					

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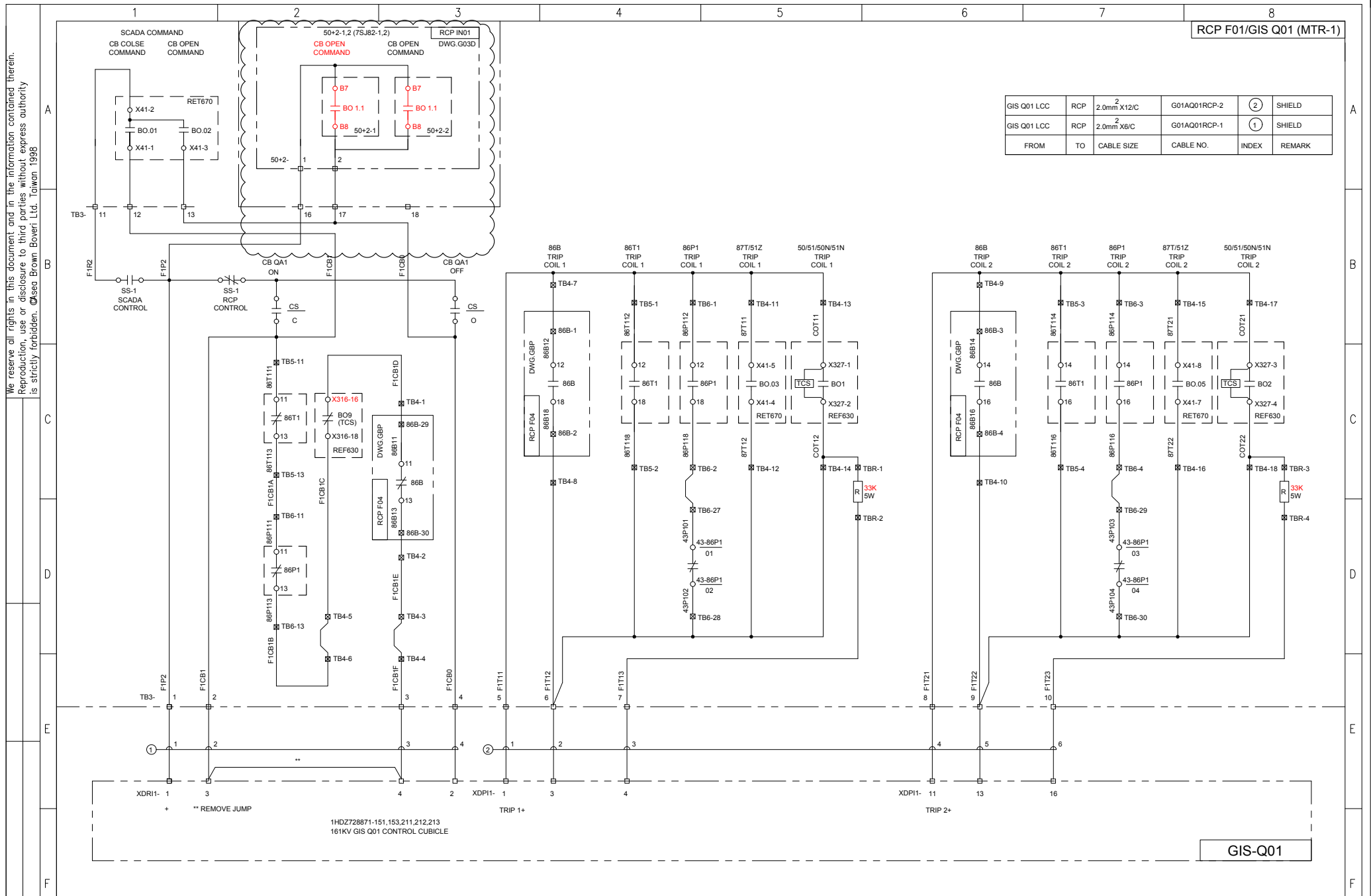


GIS Q04 LOC	RCP	2.0mm ² X16/C	F04Q04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

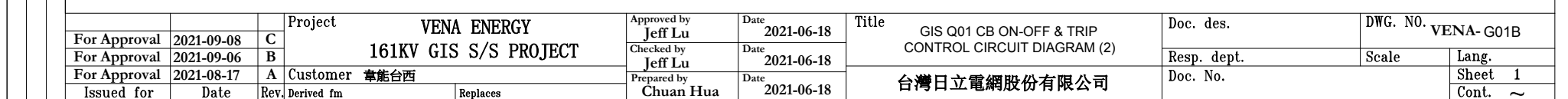
			Project			VENA ENERGY	Approved by	Date	Title	GIS Q04 CB & DS & ES		Doc. des.	DWG. NO.		VENA-F04	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT				Jeff Lu	2021-06-18	ON-OFF STATUS	INDICATION FOR RCP F03						
For Approval	2021-09-06	B					Checked by	Date								
For Approval	2021-08-17	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.		Scale	Lang.	Sheet	1
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua										

			Project		VENA ENERGY	Approved by	Date	Title	GIS Q05 CB & DS & ES	Doc. des.	DWG. NO. VENA-F05	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT	Jeff Lu	2021-06-18		ON-OFF STATUS			
For Approval	2021-09-06	B				Checked by	Date		INDICATION FOR RCP F04	Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西	Jeff Lu	2021-06-18					
Issued for	Date	Rev.	Derived fm	Replaces		Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
						Chuan Hua	2021-06-18				Cont. ~	

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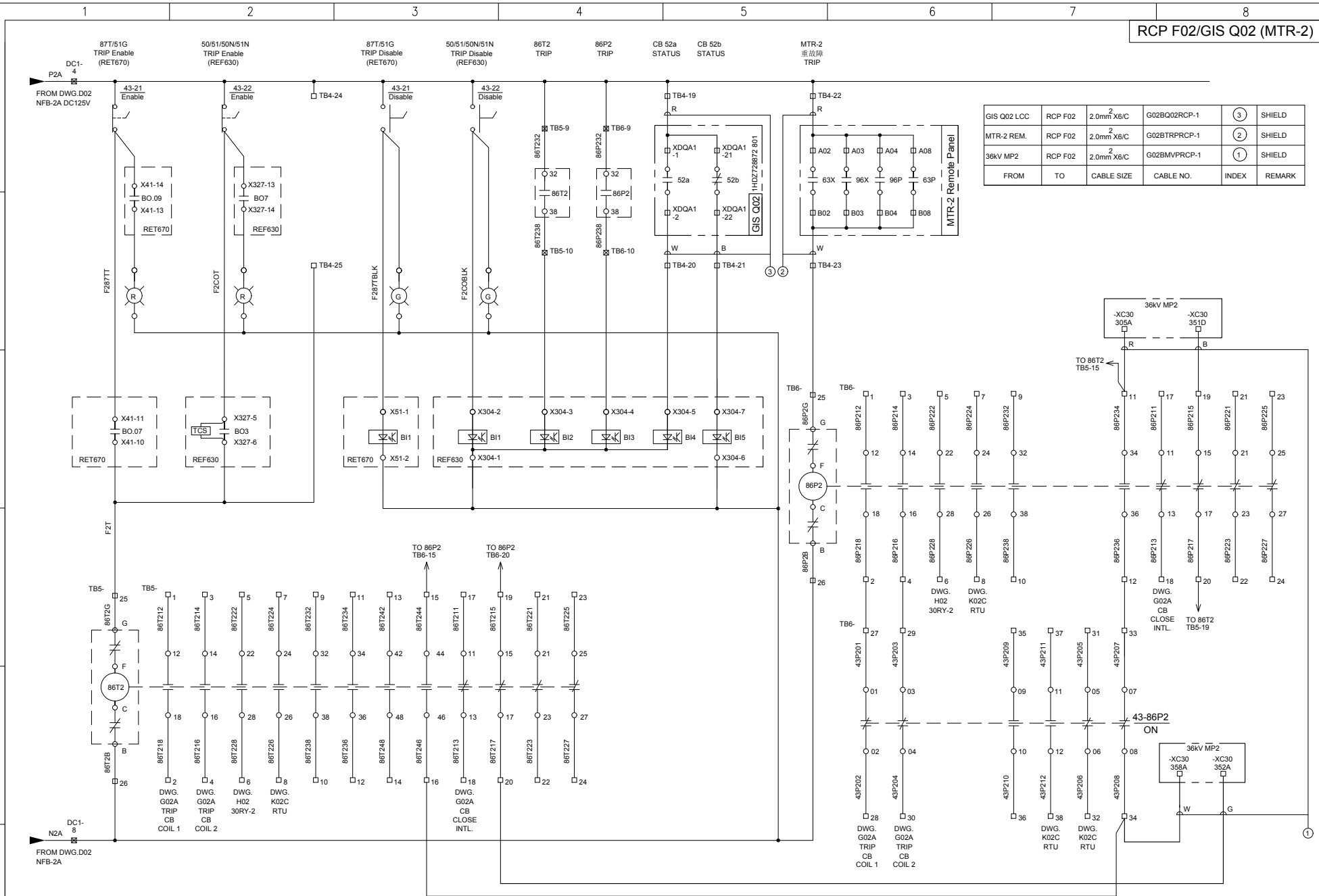
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For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18					
For Approval	2021-09-06	B							Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司		Doc. No.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces							Cont. ~



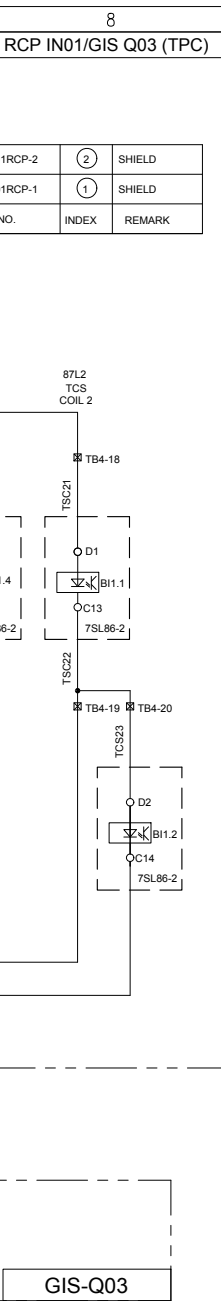


			Project			VENA ENERGY	Approved by	Date	Title	GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	Doc. des.	DWG. NO.	
For Approval	2021-09-08	C				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18					
For Approval	2021-09-06	B					Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer			韋能台西	Prepared by	Date			台灣日立電網股份有限公司	Doc. No.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua	2021-06-18	Cont.	~			

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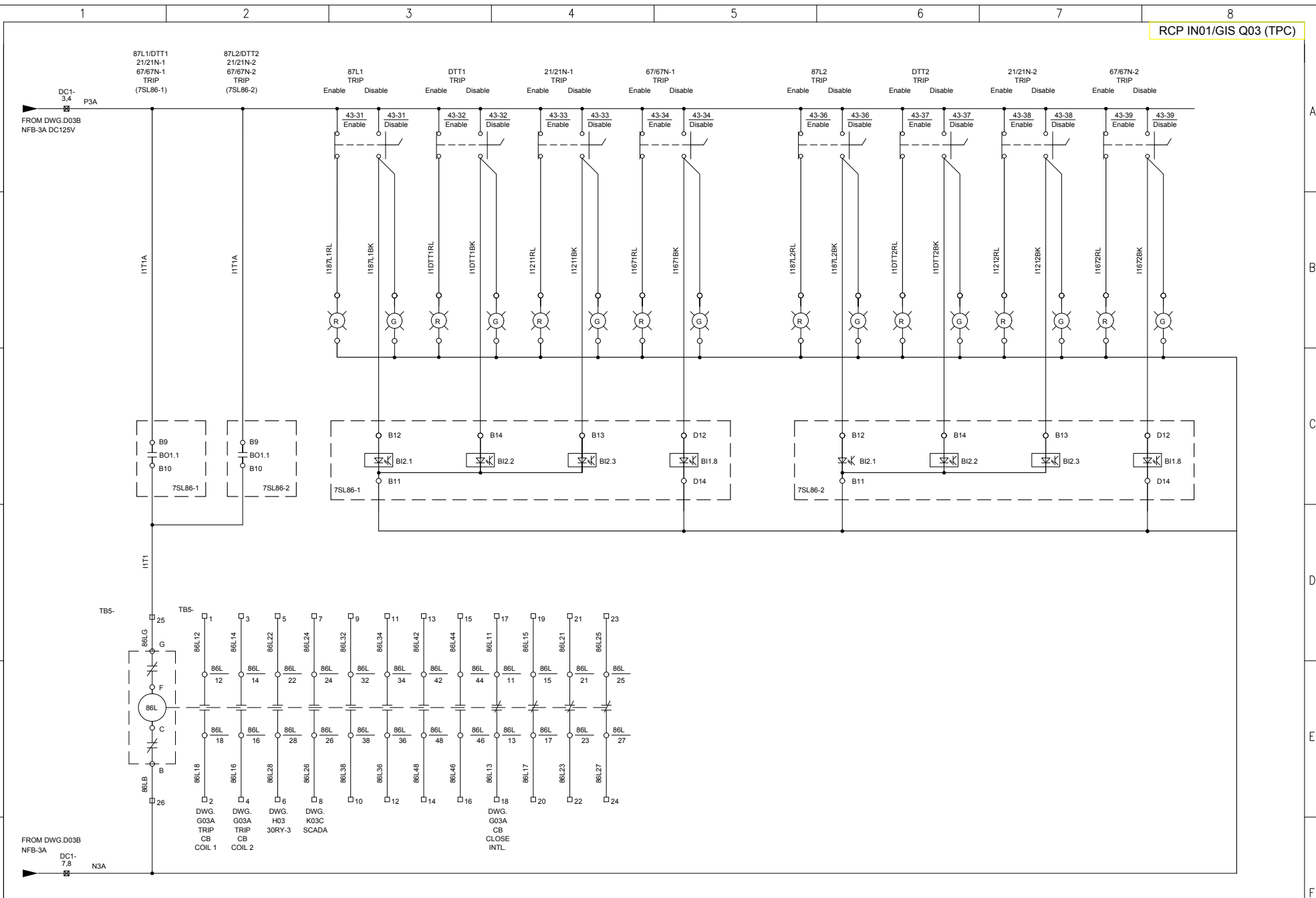


			Project			Approved by	Date	Title	Doc. des.	DWG. NO.	VENA-G02B
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu	2021-06-18				
For Approval	2021-09-06	B				Checked by	Date				
For Approval	2021-08-17	A	Jeff Lu	2021-06-18	台灣日立電網股份有限公司	Doc. No.	Resp. dept.	Scale	Lang.		
Issued for	Date	Rev.	Derived fm	Replaces						Prepared by	Date
					Chuan Hua	2021-06-18					



			Project			Approved by	Date	Title	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	Doc. des.	DWG. NO. VENA- G03A	
For Approval	2021-09-08	C				Jeff Lu	2021-06-18				Resp. dept.	Scale
For Approval	2021-09-06	B				Checked by	Date					
For Approval	2021-08-17	A	Customer 韋能台西			Prepared by	Date			台灣日立電網股份有限公司	Doc. No.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18						

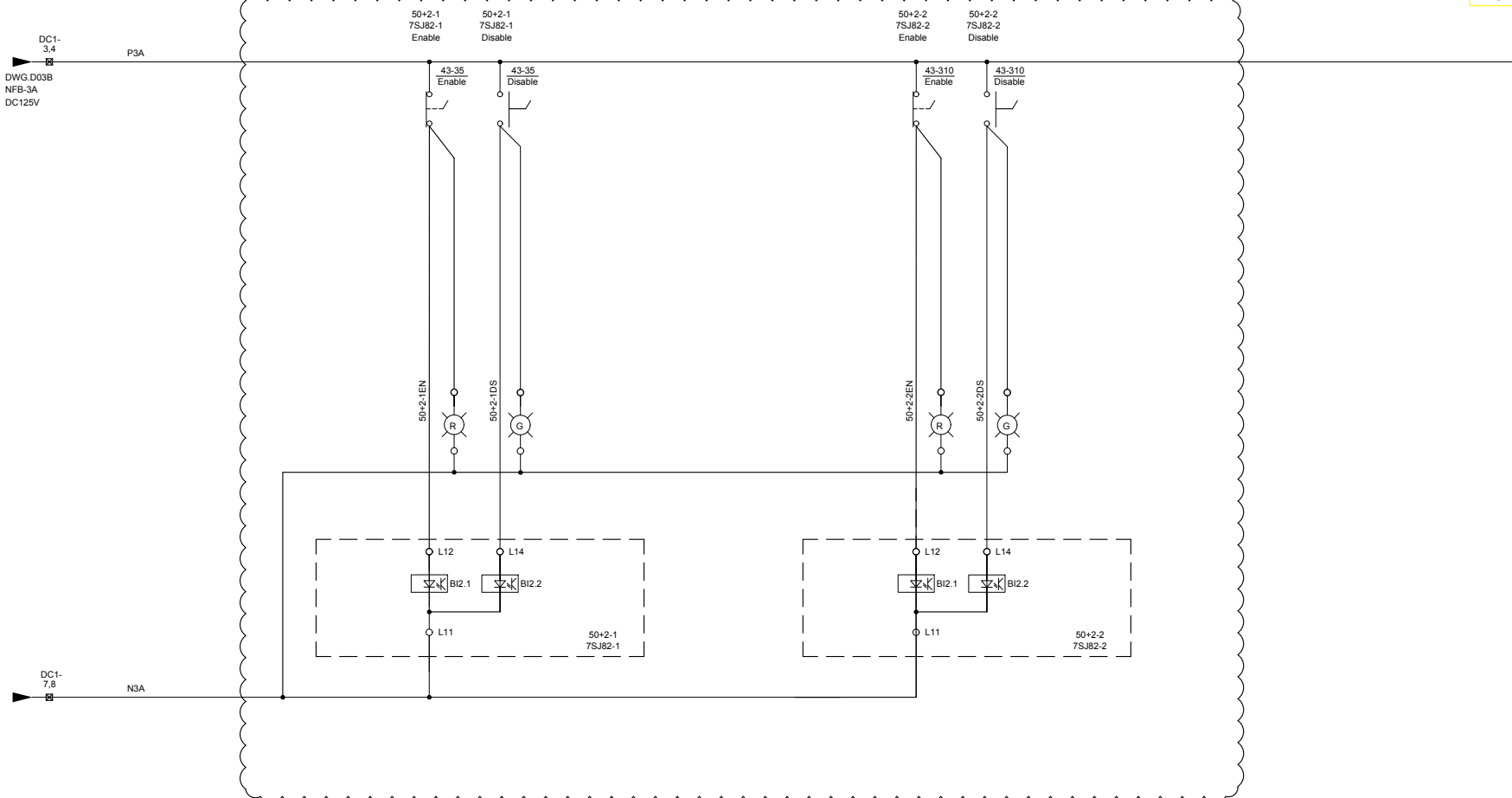
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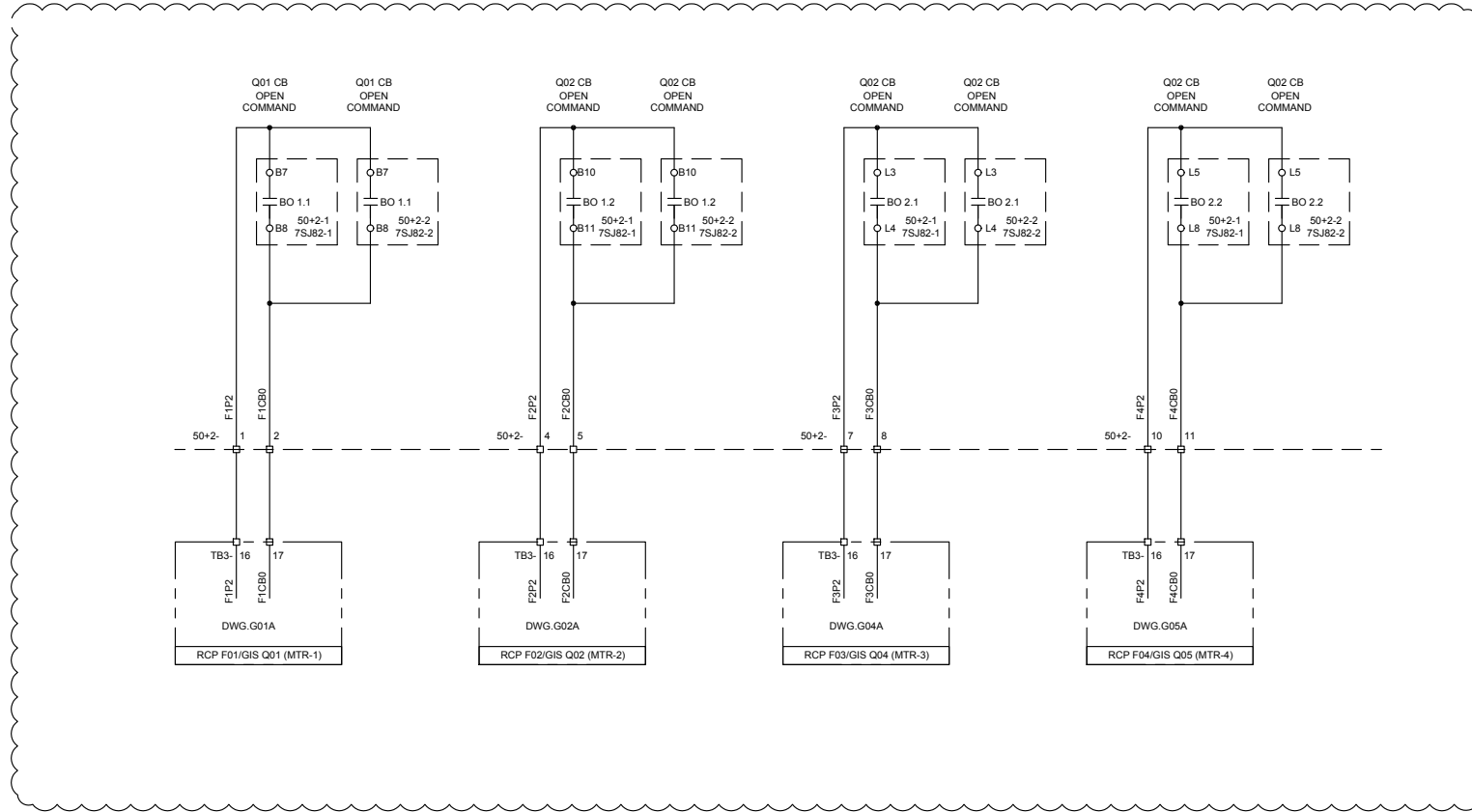
			Project	Approved by	Date	Title	Doc. des.	DWG. NO.	
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)		VENA-G03B	
For Approval	2021-09-06	B		Checked by	Date		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A		Customer	Jeff Lu		2021-06-18		
Issued for	Date	Rev.	Derived fm	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1	
			Replaces	Chuan Hua	2021-06-18			Cont. ~	

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RCP IN01/GIS Q03 (TPC)

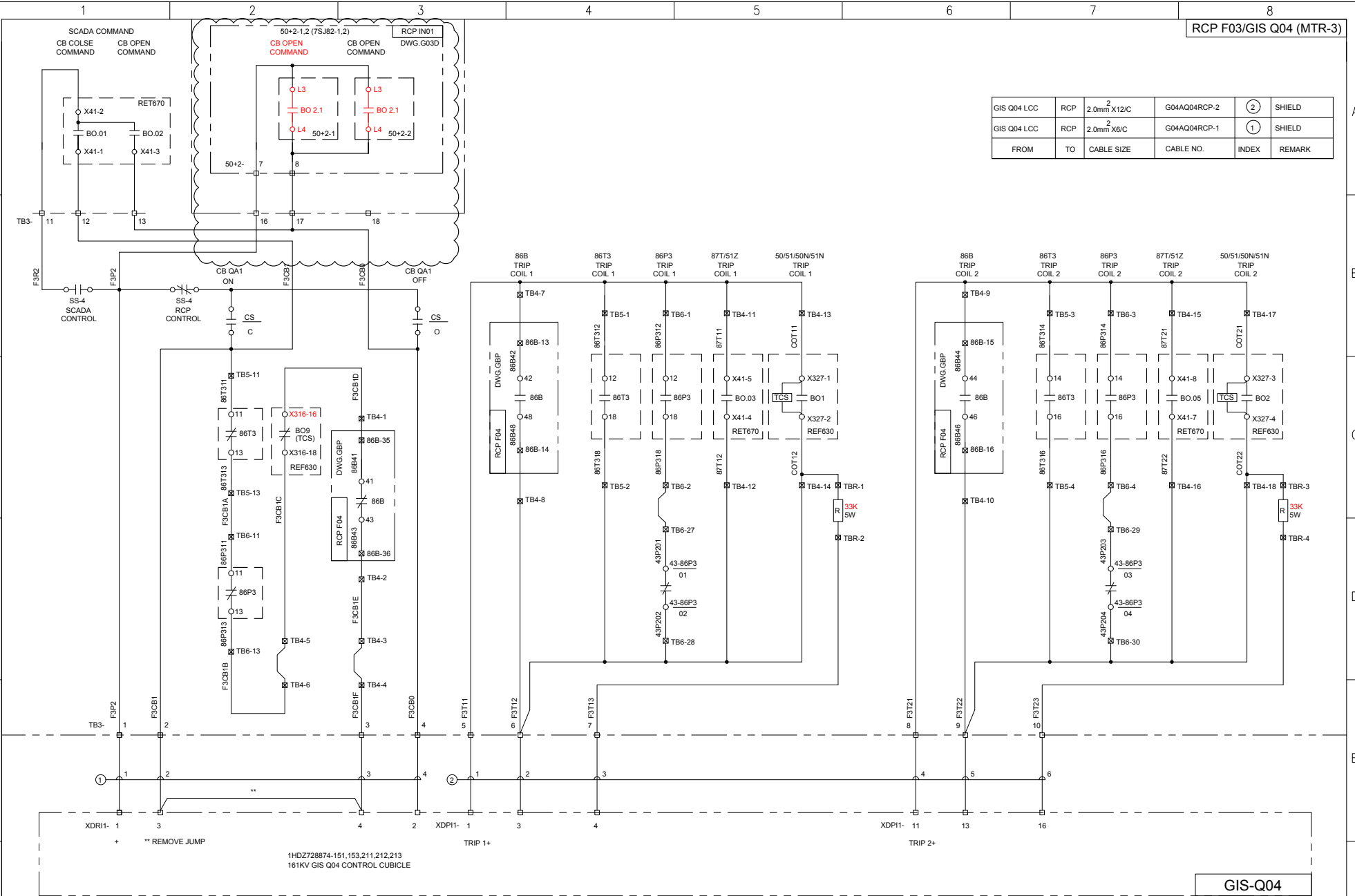


Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-G03C	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu	2021-06-18		50+2-1,2 CB ON-OFF COMMAND		RESP. DEPT.		Scale		Lang.
For Approval	2021-09-06	B			Jeff Lu	2021-06-18				Doc. No.		Sheet 1		Cont. ~
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by	Date		台灣日立電網股份有限公司						
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18								



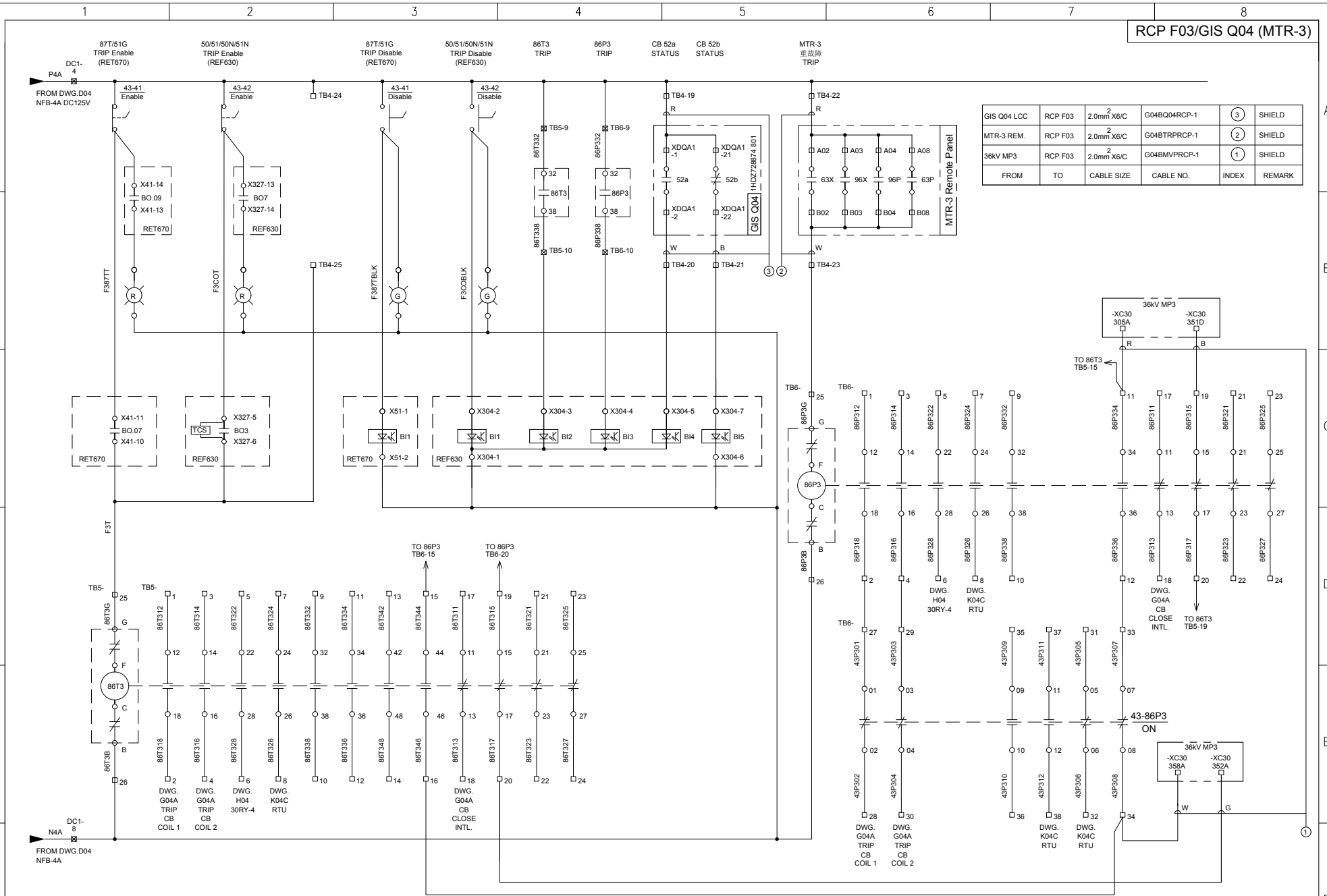
			Project		VENA ENERGY	Approved by	Date	Title	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA-G03D	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT	Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Checked by	Date	Resp. dept.	Scale	Lang.		
For Approval	2021-08-17	A	Customer 韋能台西		Jeff Lu	2021-06-18						
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1			
					Chuan Hua	2021-06-18				Cont. ~		

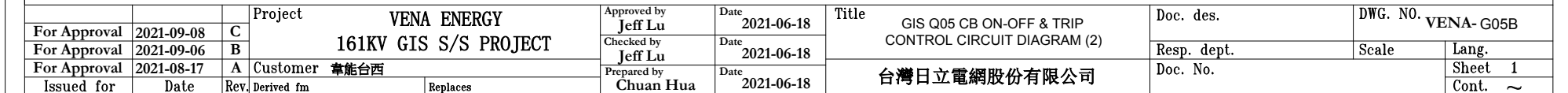
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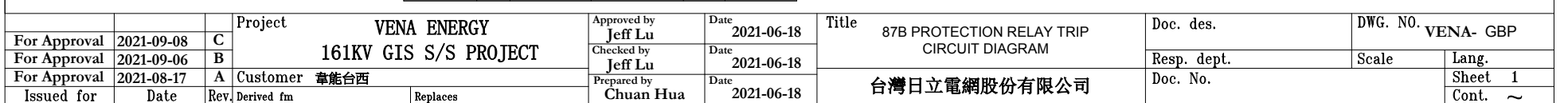


Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA- G04A	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		GIS Q04 CB ON-OFF & TRIP		Resp. dept.		Scale	Lang.
For Approval	2021-09-06	B			Jeff Lu		2021-06-18		CONTROL CIRCUIT DIAGRAM (1)		Doc. No.		Sheet 1	Cont. ~
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司					
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18							

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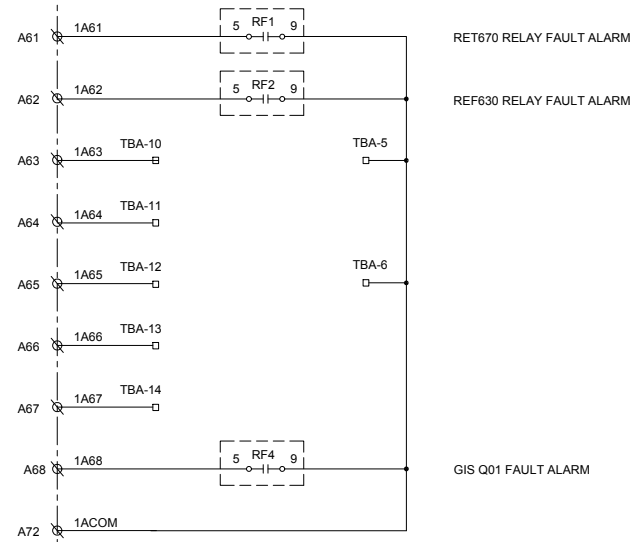
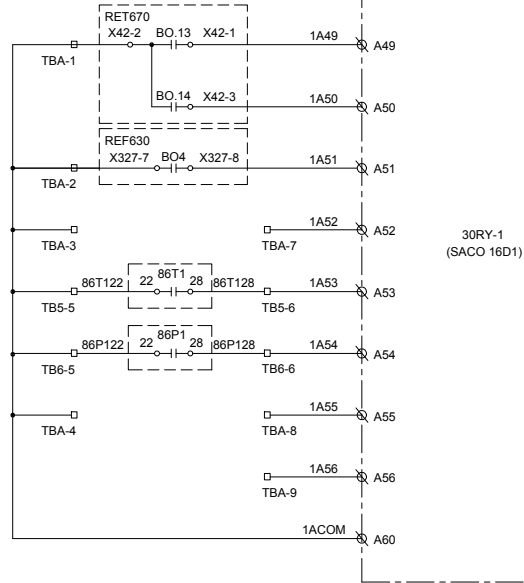




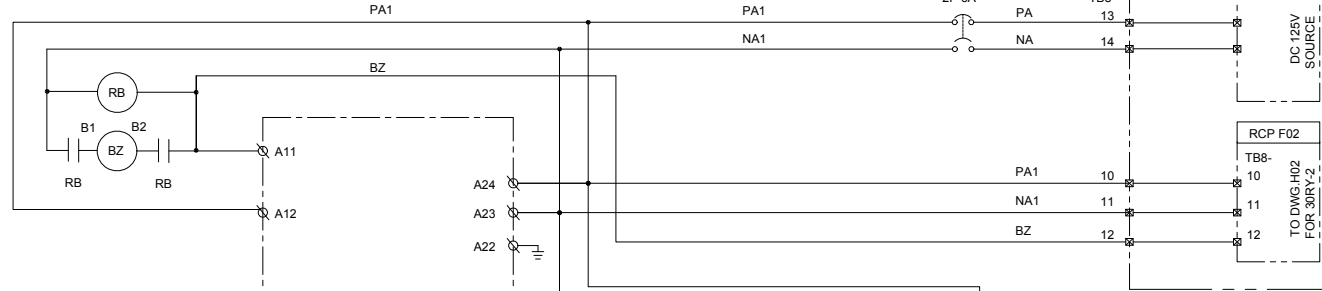
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GIS Q01 LCC	RCP	2	H01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

87T TRIP
51G TRIP
50/51/50N/51N TRIP
SPARE
86T1 TRIP
86P1 TRIP
SPARE
SPARE



RCP F01/GIS Q01 (MTR-1)

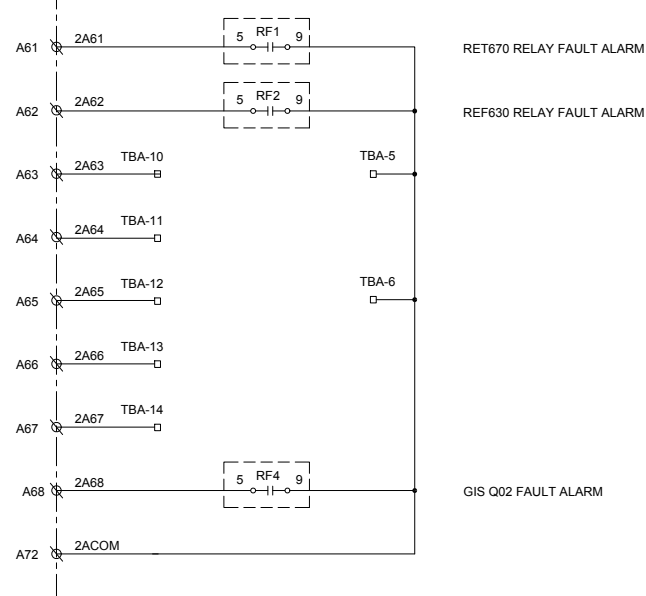
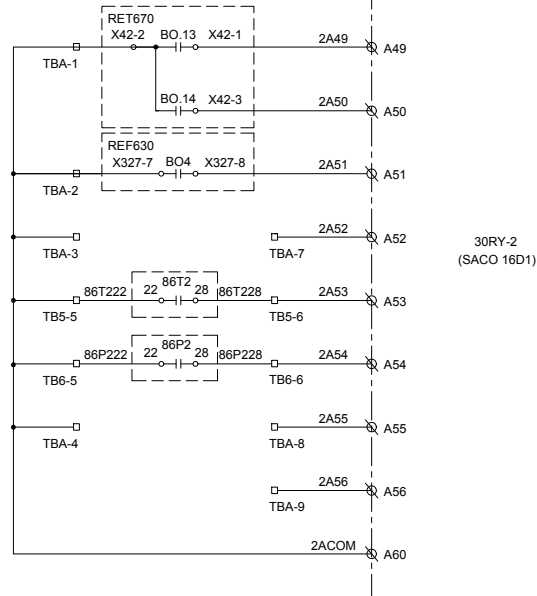


			Project			VENA ENERGY	Approved by	Date	Title	ALARM SYSTEM 30RY-1 WIRING DIAGRAM FOR RCP F01	Doc. des.	DWG. NO.	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	VENA-H01					
For Approval	2021-09-06	B				Checked by	Date	Resp. dept.			Scale	Lang.	
For Approval	2021-08-17	A				Customer	韋能台西						2021-06-18
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1			
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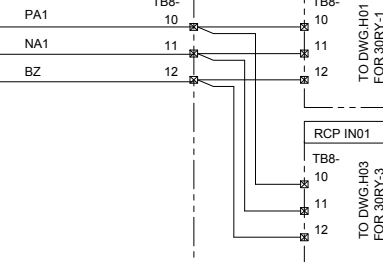
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GIS Q02 LCC	RCP	2.0mm ² X4/C	H02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

87T TRIP
51G TRIP
50/51/50N/51N TRIP
SPARE
86T2 TRIP
86P2 TRIP
SPARE
SPARE



RCP F02/GIS Q02 (MTR-2)



RELAY RET670
FAULT ALARM
RELAY REF630
FAULT ALARM
GIS Q02 COLLECT ALARM

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-H02	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		ALARM SYSTEM 30RY-2					
For Approval	2021-09-06	B			Jeff Lu		2021-06-18		WIRING DIAGRAM FOR RCP F02		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18						Cont. ~	

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GIS Q03 LCC	RCP	2.0mm X4/C	H03Q03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

87L1 TRIP

DTT1 TRIP

21/21N-1 TRIP

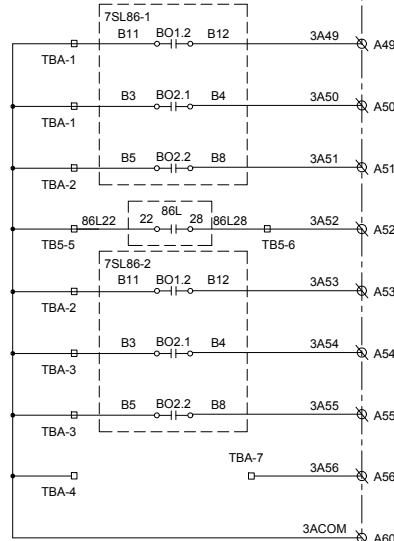
86L TRIP

87L2 TRIP

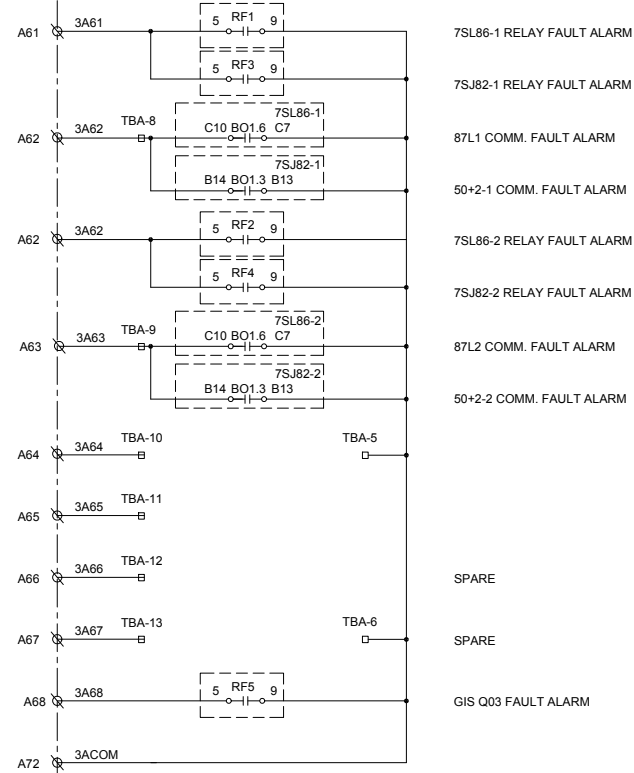
DTT2 TRIP

21/21N-2 TRIP

SPARE



30RY-1
(SACO 16D1)



RCP IN01/GIS Q03 (TPC)

TB8-
10
11
12

RCP F02
TB8-
10
11
12
TO DWG-H02
FOR 30RY-2

RCP F03
TB8-
10
11
12
TO DWG-H04
FOR 30RY-4

RELAY 7SL86-1
FAULT ALARM
RELAY 7SL86-2
FAULT ALARM
RELAY 7SJ82-1
FAULT ALARM
RELAY 7SJ82-2
FAULT ALARM

GIS Q03 COLLECT ALARM

7SL86-1 RELAY FAULT ALARM

7SJ82-1 RELAY FAULT ALARM

87L1 COMM. FAULT ALARM

50+2-1 COMM. FAULT ALARM

7SL86-2 RELAY FAULT ALARM

7SJ82-2 RELAY FAULT ALARM

87L2 COMM. FAULT ALARM

50+2-2 COMM. FAULT ALARM

SPARE

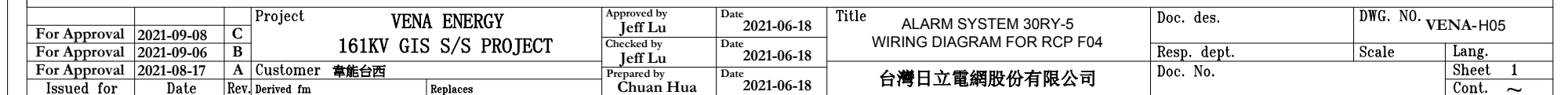
SPARE

GIS Q03 FAULT ALARM

			Project		VENA ENERGY	Approved by	Date	Title	ALARM SYSTEM 30RY-3	Doc. des.	DWG. NO.	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	WIRING DIAGRAM FOR RCP IN01			VENA-H03	
For Approval	2021-09-06	B				Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西	Jeff Lu	2021-06-18					
Issued for	Date	Rev.	Derived fm	Replaces		Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
											Cont.	~

GIS Q04 FAULT ALARM

			Project			VENA ENERGY	Approved by	Date	Title	ALARM SYSTEM 30RY-4 WIRING DIAGRAM FOR RCP F03	Doc. des.	DWG. NO. VENA-H04	
For Approval	2021-09-08	C				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18				Resp. dept.	Scale
For Approval	2021-09-06	B					Checked by	Date			Doc. No.		
For Approval	2021-08-17	A	Customer 韋能台西				Prepared by	Date				台灣日立電網股份有限公司	Cont. ~
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua	2021-06-18					

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A
B
C
D
E
F

1

2

3

4

5

6

7

8

30RY-1 (F01)

87T (RET670) TRIP 1	51G (RET670) TRIP 2	50/51/50N/51N (REF630) TRIP 3	4
86T1 TRIP 5	86P1 TRIP 6	7	8
87T/51G RET670 RELAY FAULT ALARM 9	50/51/50N/51N REF630 RELAY FAULT ALARM 10	11	12
13	14	15	161KV GIS Q01 FAULT ALARM 16

30RY-2 (F02)

87T (RET670) TRIP 1	51G (RET670) TRIP 2	50/51/50N/51N (REF630) TRIP 3	4
86T2 TRIP 5	86P2 TRIP 6	7	8
87T/51G RET670 RELAY FAULT ALARM 9	50/51/50N/51N REF630 RELAY FAULT ALARM 10	11	12
13	14	15	161KV GIS Q01 FAULT ALARM 16

A
B
C
D
E
F

			Project		VENA ENERGY	Approved by	Date	Title	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F01 & RCP F02	Doc. des.	DWG. NO. VENA-101	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu	2021-06-18						
For Approval	2021-09-06	B			Jeff Lu	2021-06-18	Resp. dept.			Scale	Lang.	
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1			
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18				Cont. ~		

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A

A

30RY-4 (F03)

30RY-5 (F04)

B

B

C

C

D

D

E

E

F

F

87T (RET670) TRIP 1	51G (RET670) TRIP 2	50/51/50N/51N (REF630) TRIP 3	 4
86T3 TRIP 5	86P3 TRIP 6	 7	 8
87T/51G RET670 RELAY FAULT ALARM 9	50/51/50N/51N REF630 RELAY FAULT ALARM 10	BUS 27/59 ALARM 11	BUS 59Vo ALARM 12
BUS 81H-L ALARM 13	 14	 15	161KV GIS Q04 FAULT ALARM 16

87T (RET670) TRIP 1	51G (RET670) TRIP 2	50/51/50N/51N (REF630) TRIP 3	87B (REB670) TRIP 4
86T4 TRIP 5	86P4 TRIP 6	86B TRIP 7	 8
87T/51G RET670 RELAY FAULT ALARM 9	50/51/50N/51N REF630 RELAY FAULT ALARM 10	87B REB670 RELAY FAULT ALARM 11	 12
 13	 14	 15	161KV GIS Q05 FAULT ALARM 16

		Project		Approved by	Date	Title	Doc. des.		DWG. NO. VENA- I03	
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18					
For Approval	2021-09-06	B		Jeff Lu	2021-06-18		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
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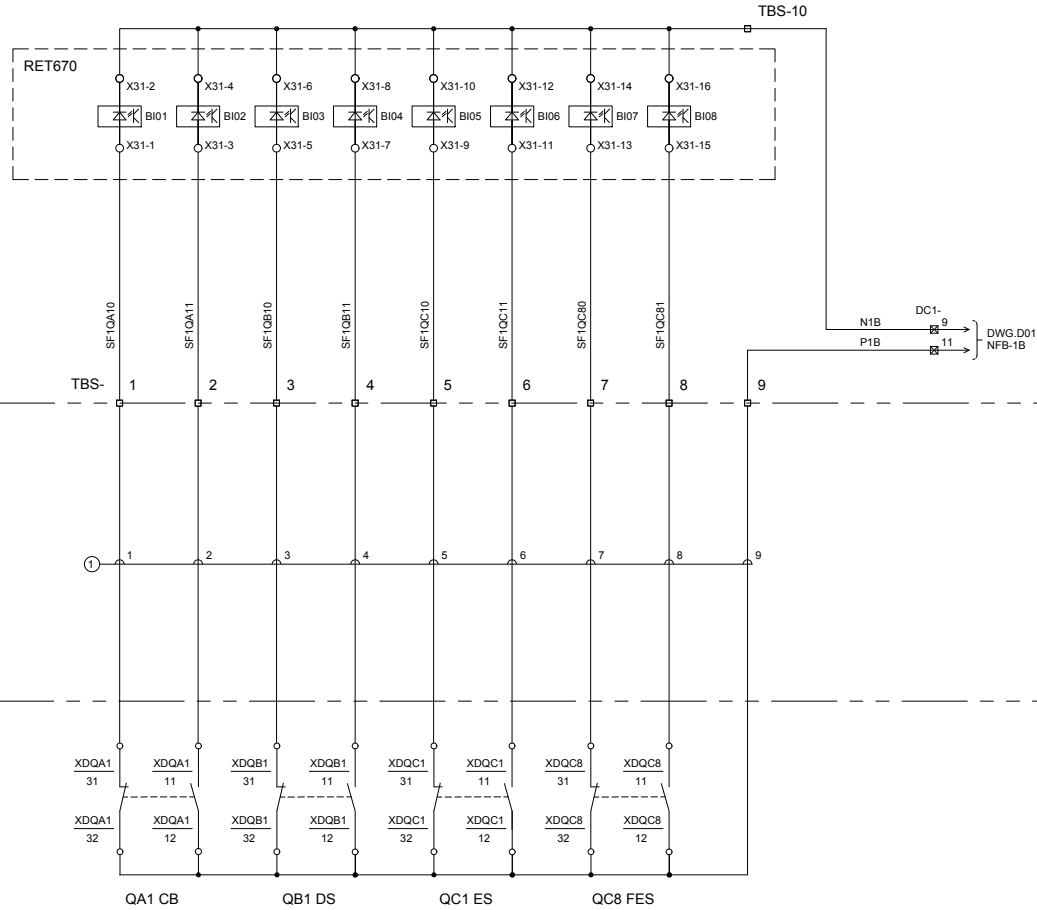
7

8

GIS Q01 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM

RCP F01/GIS Q01 (MTR-1)

QA1 CB QB1 DS QC1 ES QC8 FES
OFF ON OFF ON OFF ON OFF ON



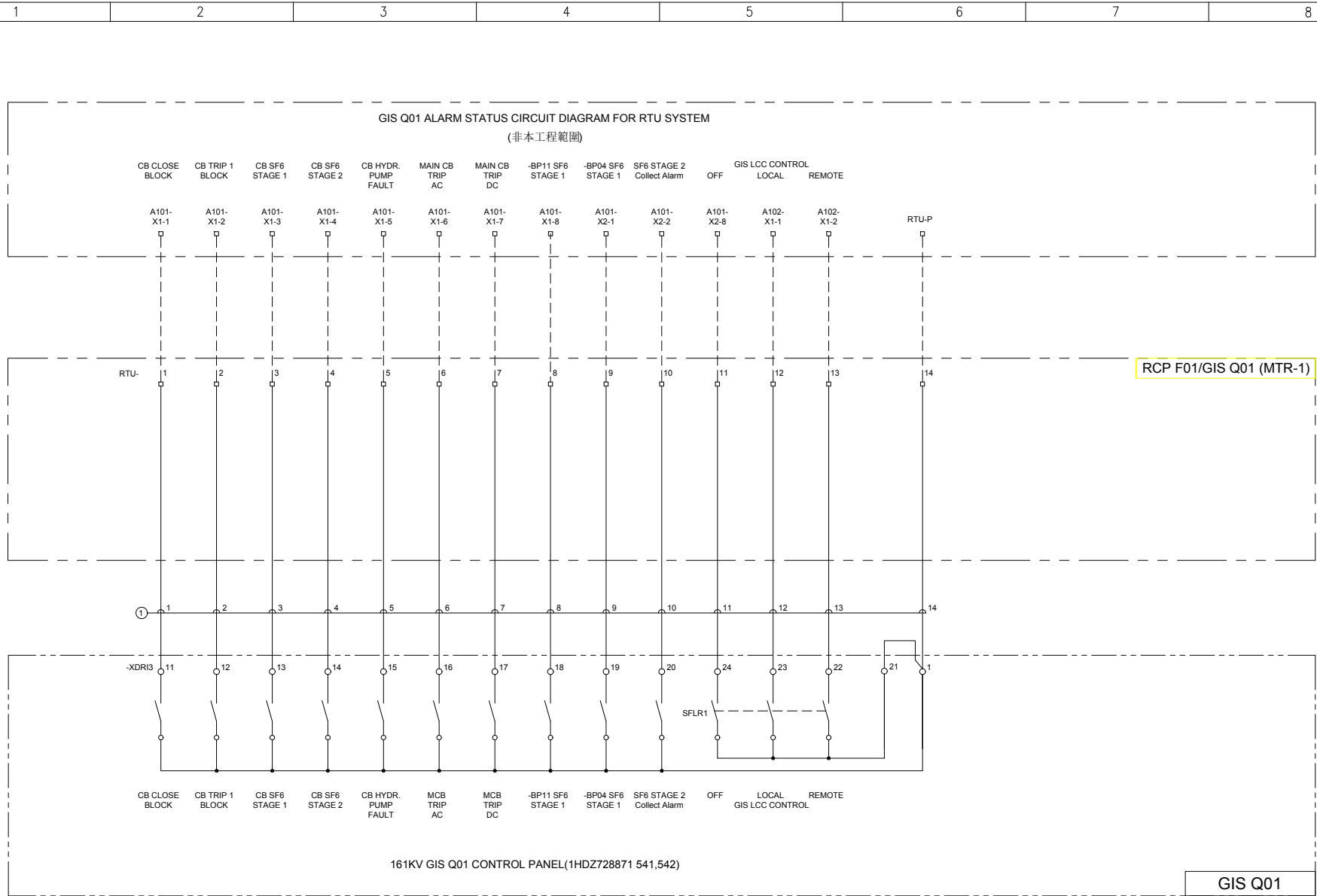
161KV GIS Q01 CONTROL PANEL(1HDZ728871 801~804)

GIS-Q01

GIS Q01 LCC	RCP	2.0mm X12/C	K01AQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY		Approved by	Date	Title	GIS Q01 CB & DS & ES		Doc. des.	DWG. NO. VENA-K01A	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18		ON-OFF STATUS FOR SCADA				
For Approval	2021-09-06	B					Jeff Lu	2021-06-18				Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西		Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1		
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua		2021-06-18				Cont. ~		

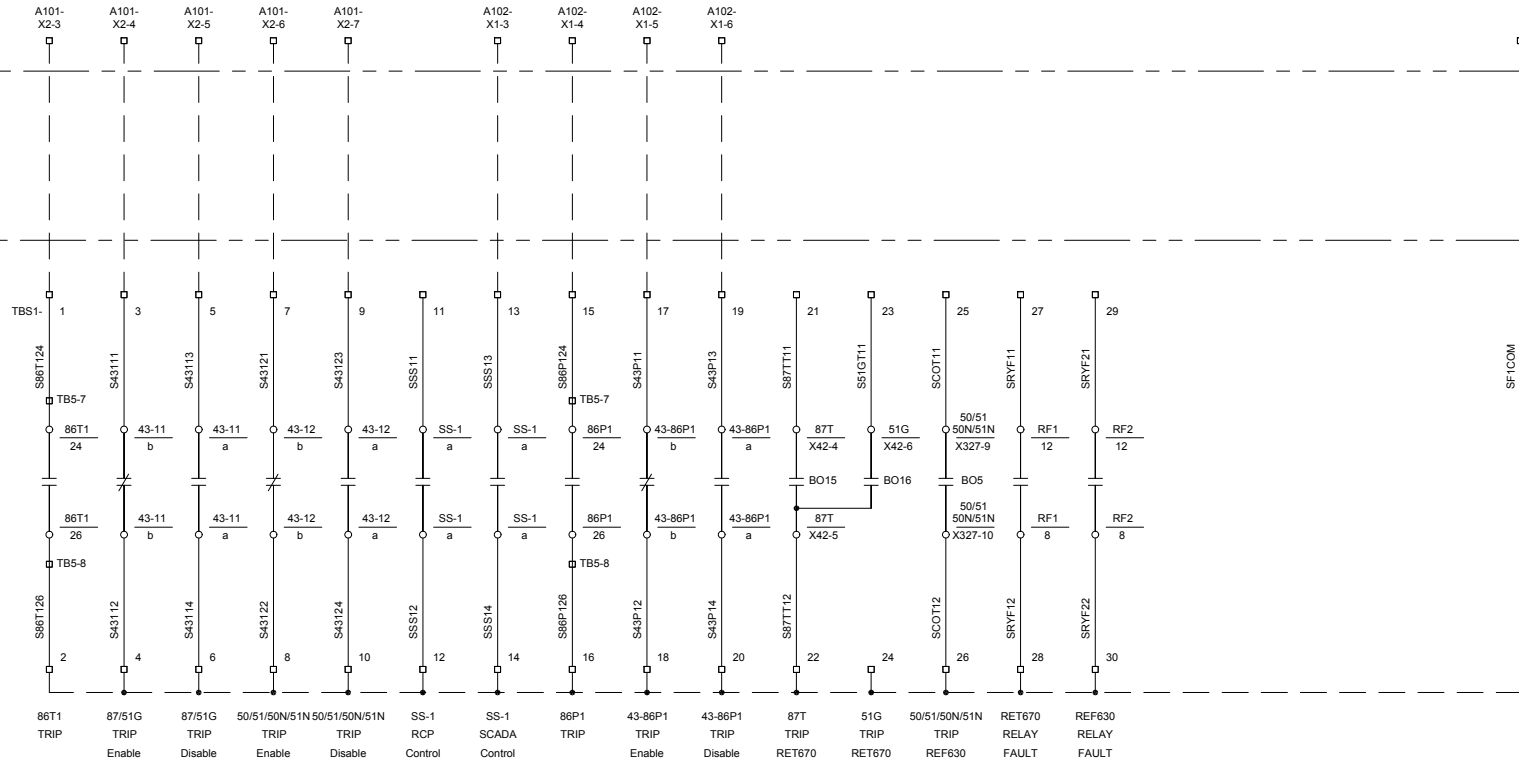
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			Project			Approved by	Date	Title	GIS Q01 ALARM STATUS FOR RTU	Doc. des.	DWG. NO.	VENA-K01B
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Checked by	Date			2021-06-18		
For Approval	2021-08-17	A	Customer	韋能台西		Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Resp. dept.	Scale
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18			Sheet 1		
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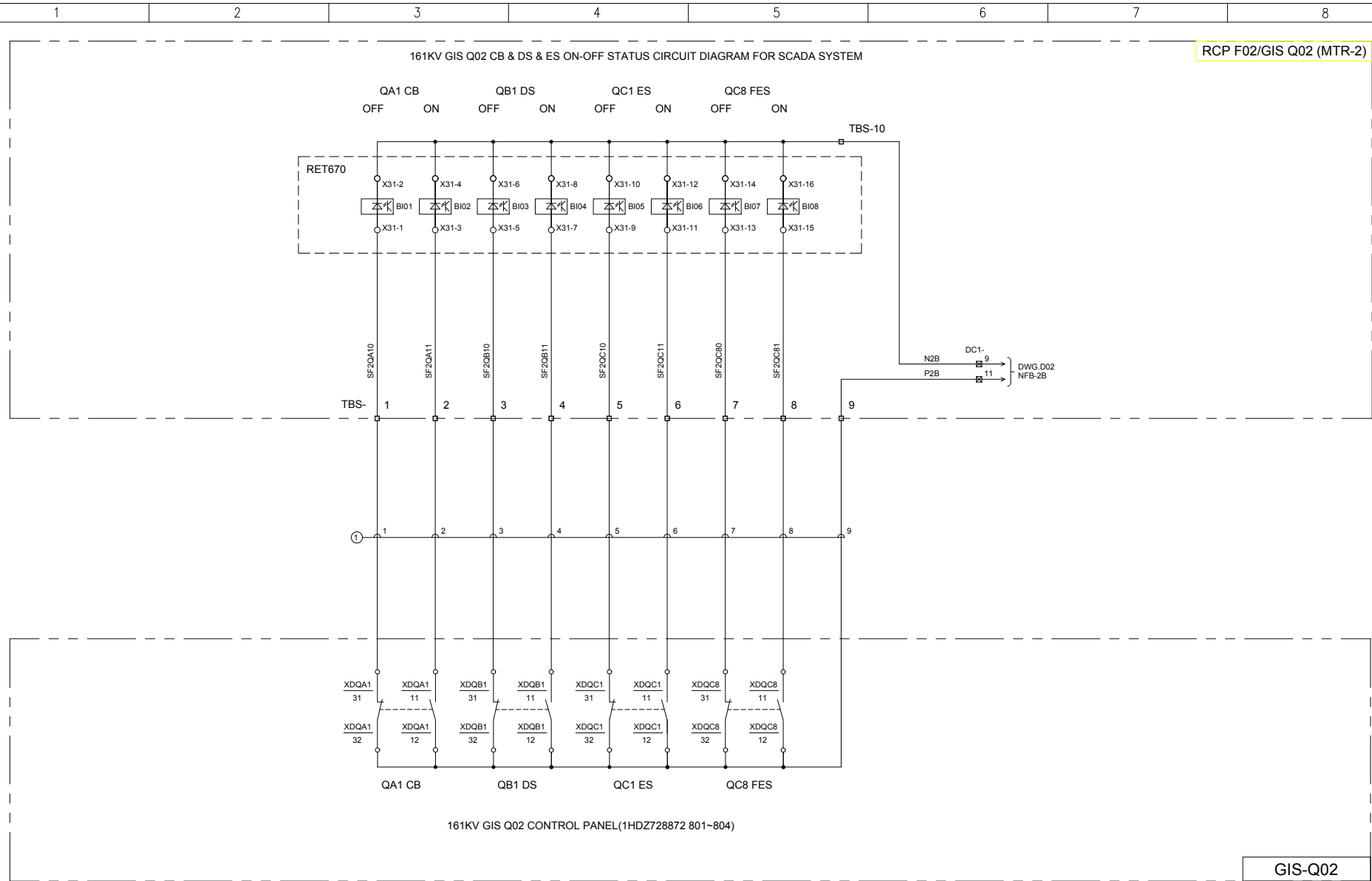
RCP F01 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM
(非本工程範圍)



RCP F01/GIS Q01 (MTR-1)

			Project			VENA ENERGY		Approved by	Date	Title		RCP F01 PROTECTION RELAY & 43		Doc. des.		DWG. NO.		
For Approval	2021-09-08	C				161KV GIS S/S PROJECT			Jeff Lu	2021-06-18							VENA-K01C	
For Approval	2021-09-06	B							Checked by	Date			STATUS FOR RTU		Resp. dept.		Scale	
For Approval	2021-08-17	A	Customer			韋能台西			Prepared by	Date					Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm		Replaces				Chuan Hua	2021-06-18			台灣日立電網股份有限公司				Cont. ~	

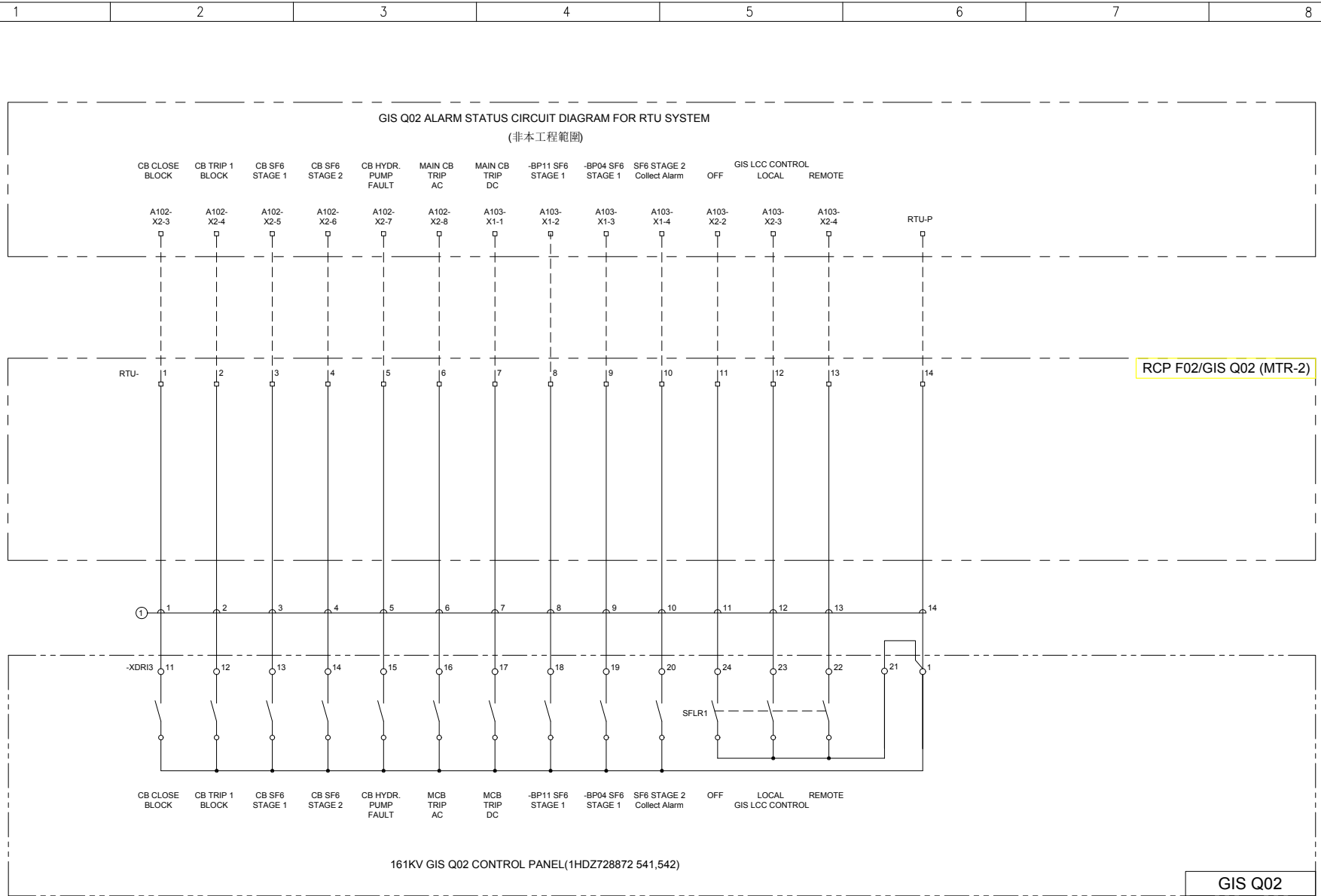
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GIS Q02 LCC	RCP	2.0mm X12/C	K02AQ02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project			VENA ENERGY		Approved by		Date		Title		GIS Q02 CB & DS & ES		Doc. des.		DWG. NO.		VENA-K02A		
For Approval	2021-09-08	C				161KV GIS S/S PROJECT			Jeff Lu		2021-06-18		ON-OFF STATUS FOR SCADA									
For Approval	2021-09-06	B							Checked by		Date				Resp. dept.		Scale		Lang.			
For Approval	2021-08-17	A	Customer 韋能台西						Prepared by		Date		台灣日立電網股份有限公司		Doc. No.				Sheet 1			
Issued for	Date	Rev.	Derived fm		Replaces		Chuan Hua		2021-06-18		Cont. ~											

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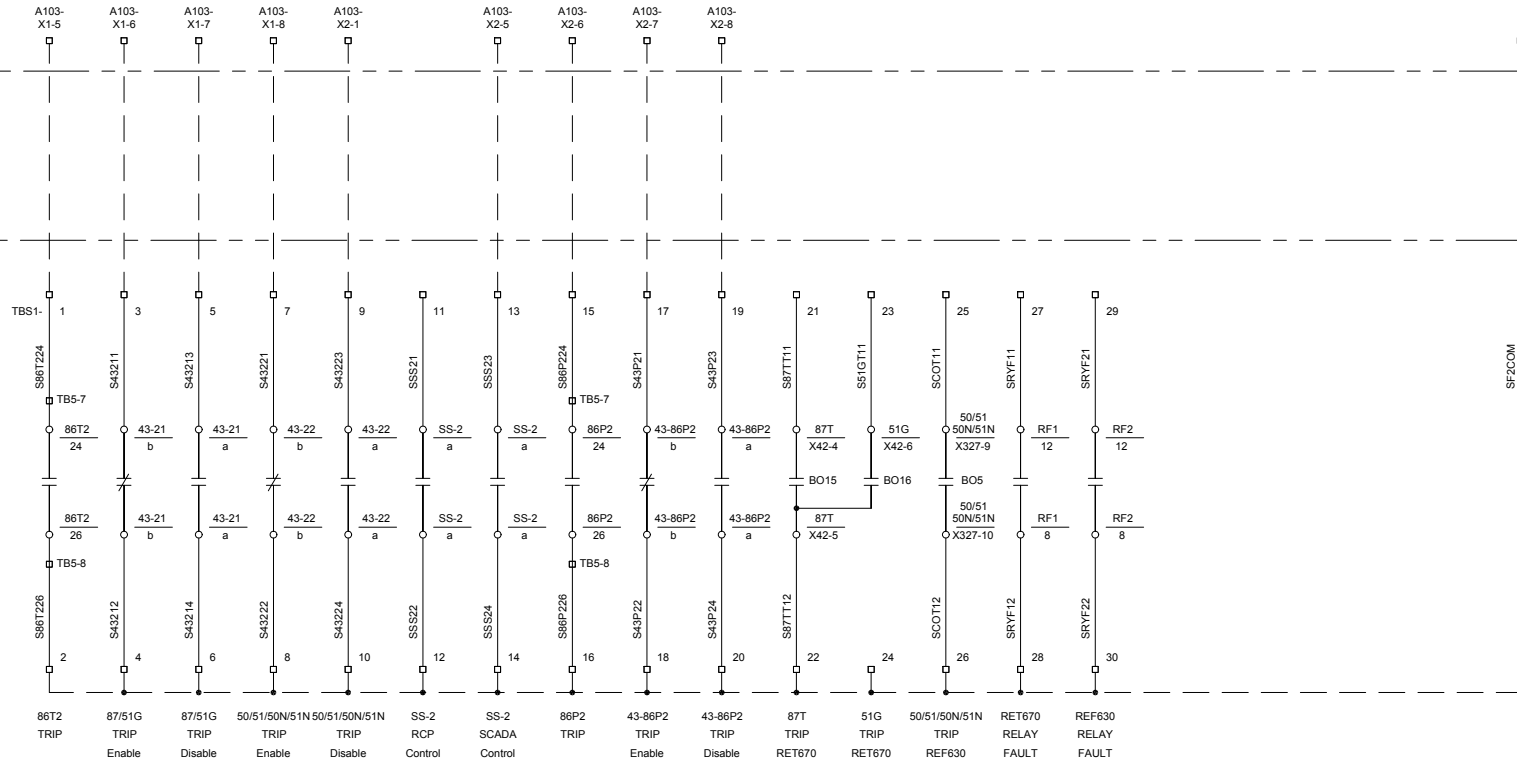


GIS Q02 LCC	RCP	2.0mm ² X16/C	K02BQ02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

		Project	VENA ENERGY		Approved by	Date	Title	Doc. des.		DWG. NO. VENA-K02B	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu	2021-06-18					
For Approval	2021-09-06	B			Checked by	Date	台灣日立電網股份有限公司	Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Jeff Lu	2021-06-18					Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date			Doc. No.		Cont. ~
					Chuan Hua	2021-06-18					

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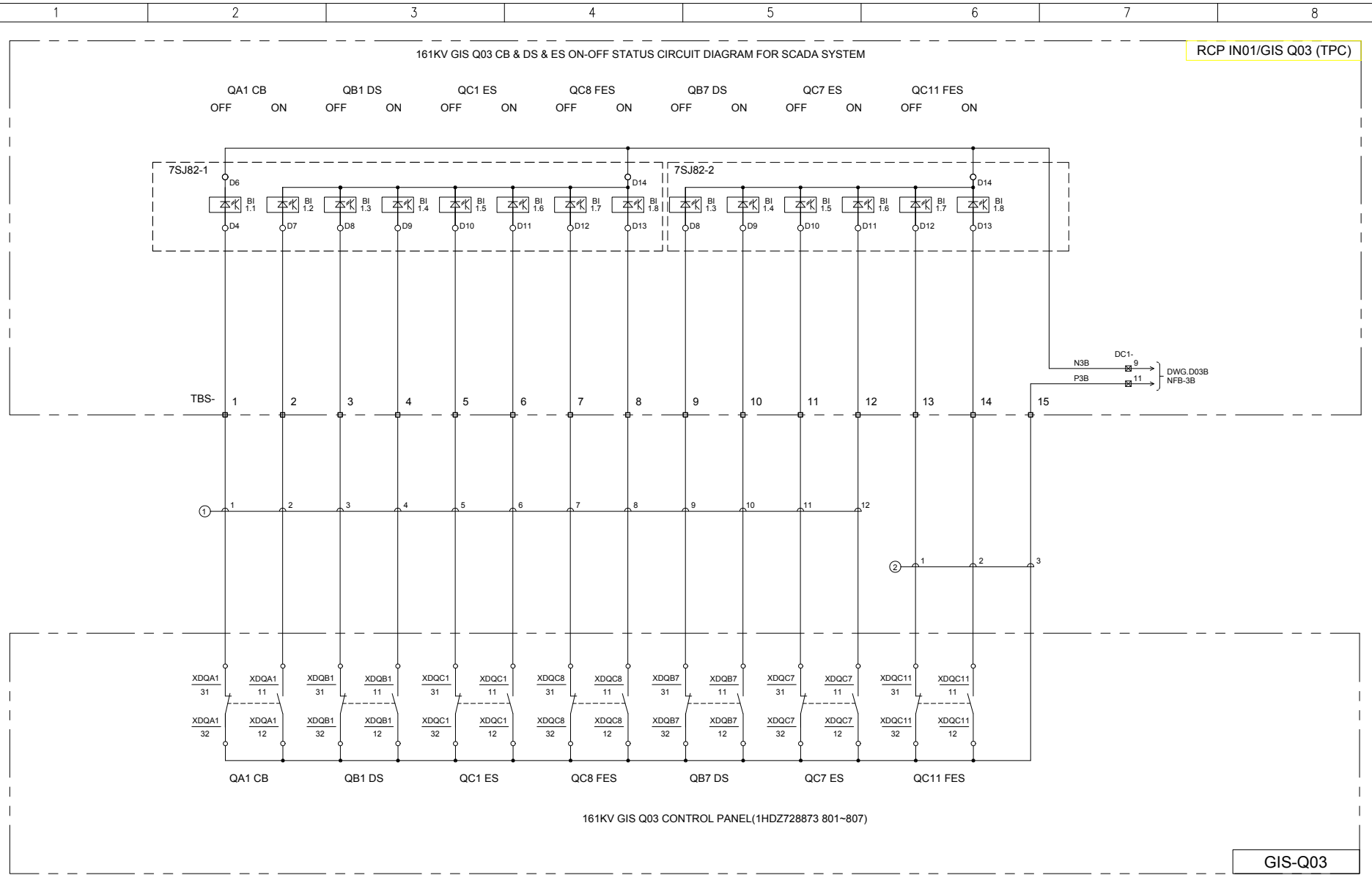
RCP F02 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM
(非本工程範圍)



RCP F02/GIS Q02 (MTR-2)

			Project		VENA ENERGY	Approved by	Date	Title RCP F02 PROTECTION RELAY & 43 STATUS FOR RTU	Doc. des.		DWG. NO. VENA-K02C	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Jeff Lu	2021-06-18		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18				Cont. ~	

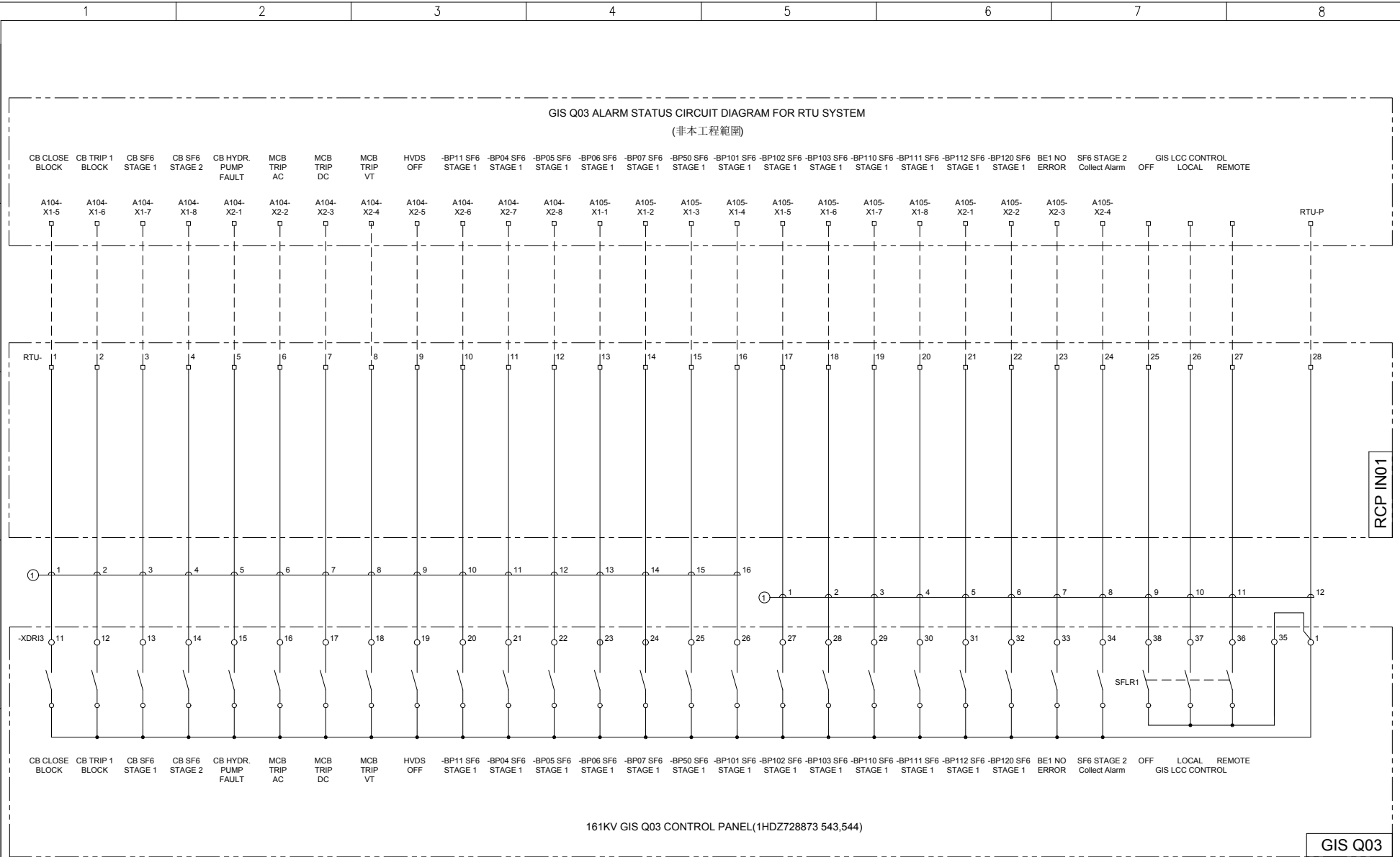
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GIS Q03 LCC	RCP	2.0mm ² X12/C	K03AQ03RCP-2	②	SHIELD
GIS Q03 LCC	RCP	2.0mm ² X12/C	K03AQ03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY	Approved by	Date	Title	GIS Q03 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des.	DWG. NO. VENA-K03A	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT	Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Checked by	Date	台灣日立電網股份有限公司	Doc. No.	Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西			Jeff Lu	2021-06-18					
Issued for	Date	Rev.	Derived fm	Replaces		Prepared by	Date					Sheet 1
						Chuan Hua	2021-06-18					Cont. ~

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GIS Q03 LCC	RCP	2.0mm ² X16/C	K03BQ03RCP-2	①	SHIELD
GIS Q03 LCC	RCP	2.0mm ² X16/C	K03BQ03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY	Approved by	Date	Title	GIS Q03 ALARM STATUS FOR RTU	Doc. des.	DWG. NO. VENA-K03B	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu	2021-06-18						
For Approval	2021-09-06	B			Checked by	Date	2021-06-18					
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by	Date		台灣日立電網股份有限公司	Doc. No.	Resp. dept.	Scale	Lang.
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	Sheet 1					
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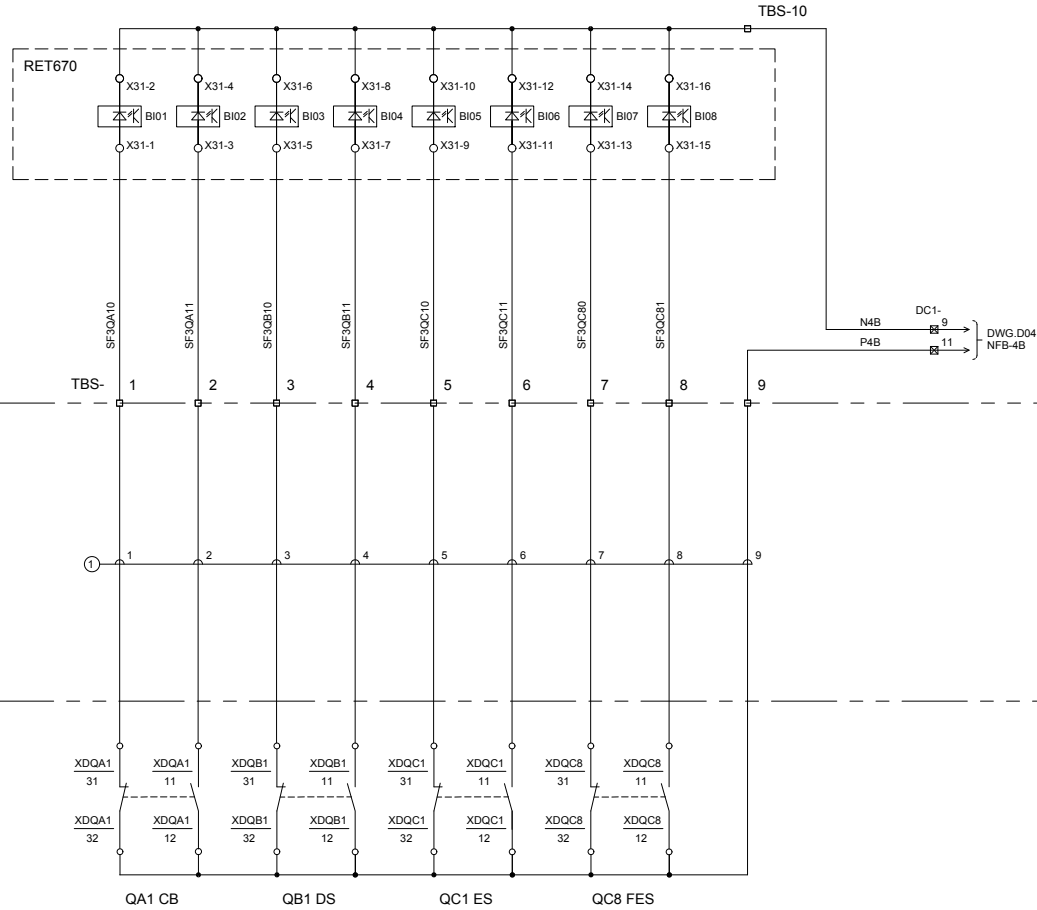
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GIS Q04 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM

RCP F03/GIS Q04 (MTR-3)

QA1 CB QB1 DS QC1 ES QC8 FES
OFF ON OFF ON OFF ON OFF ON



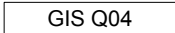
161KV GIS Q04 CONTROL PANEL(1HDZ728874 801~804)

GIS-Q04

GIS Q04 LCC	RCP	2.0mm X12/C	K04AQ04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY	Approved by	Date	Title	GIS Q04 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des.	DWG. NO. VENA-K04A	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		韋能台西	Jeff Lu	2021-06-18				Resp. dept.	Scale
For Approval	2021-09-06	B				Jeff Lu	2021-06-18					
For Approval	2021-08-17	A	Customer		Replaces	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1		
Issued for	Date	Rev.	Derived fm			Chuan Hua	2021-06-18				Cont. ~	

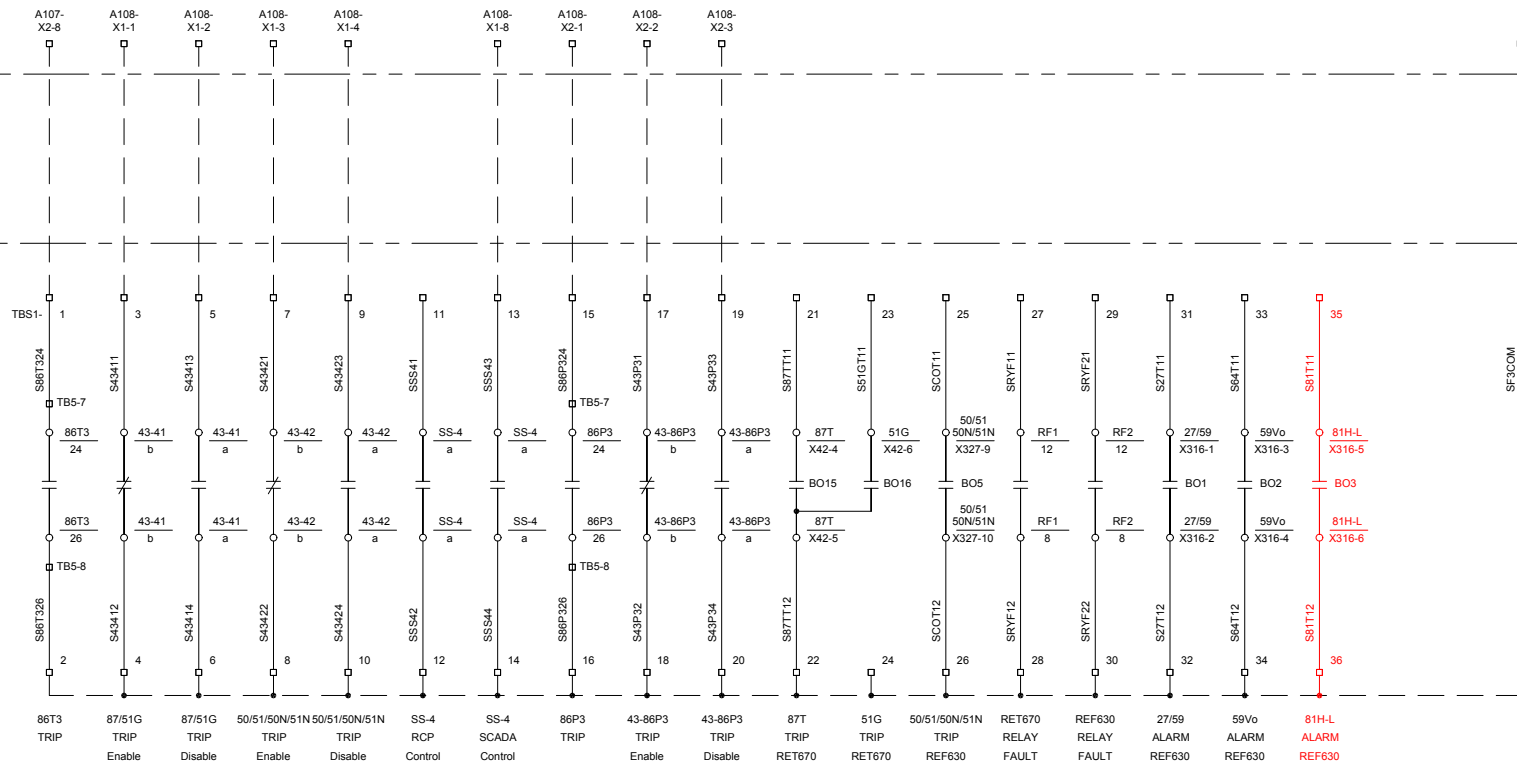
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			Project			VENA ENERGY	Approved by	Date	Title	GIS Q04 ALARM STATUS FOR RTU	Doc. des.	DWG. NO.		VENA-K04B
For Approval	2021-09-08	C				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18						
For Approval	2021-09-06	B					Checked by	Date			Resp. dept.	Scale	Lang.	
For Approval	2021-08-17	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.				
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua	2021-06-18					Sheet	1
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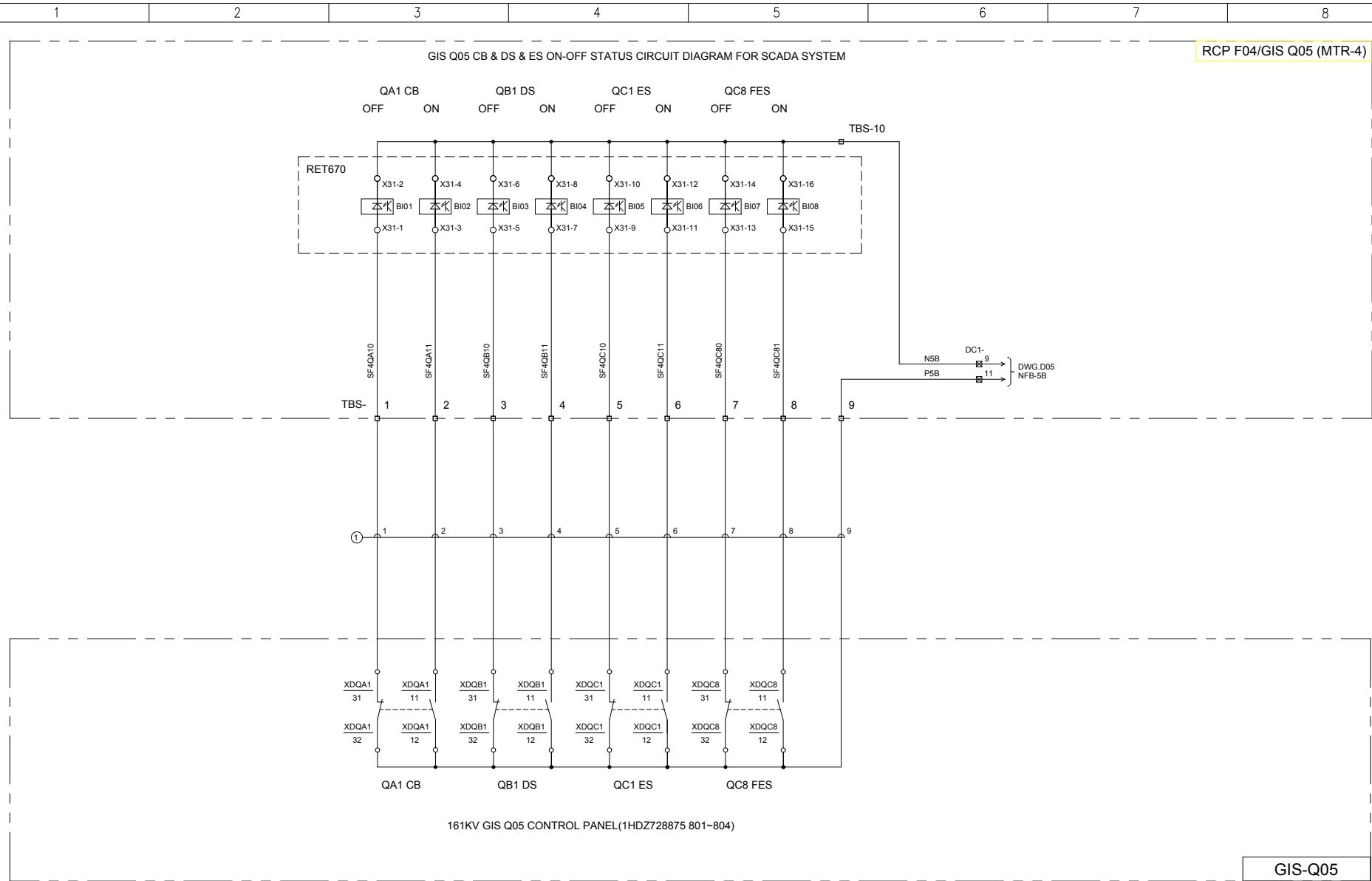
RCP F03 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM
(非本工程範圍)



RCP F03/GIS Q04 (MTR-3)

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO.	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		RCP F03 PROTECTION RELAY & 43 STATUS FOR RTU				VENA-K04C	
For Approval	2021-09-06	B			Jeff Lu		2021-06-18				Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18						Cont. ~	

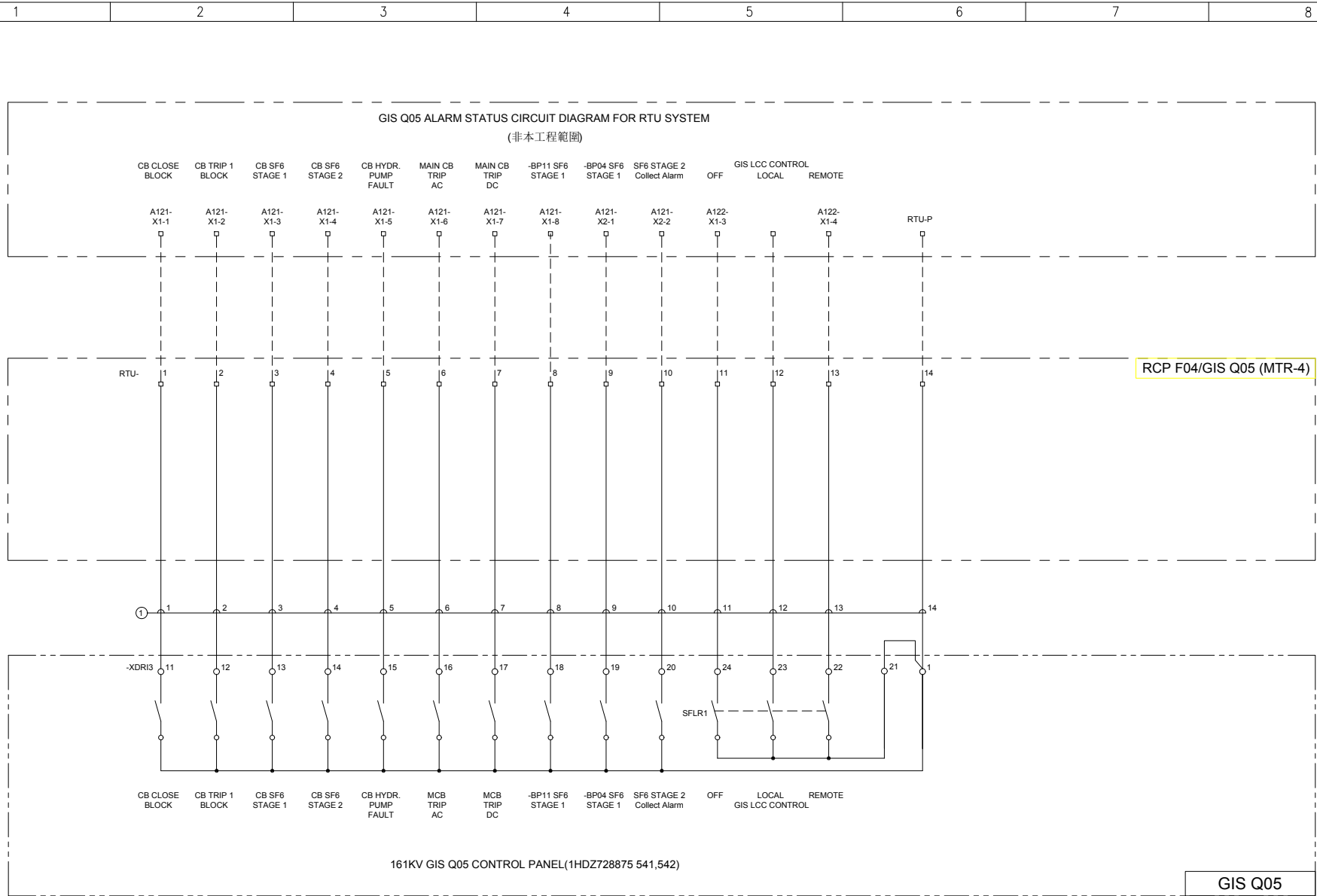
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GIS Q05 LCC	RCP	2.0mm X12/C	K05AQ05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project			VENA ENERGY		Approved by		Date		Title			GIS Q05 CB & DS & ES		Doc. des.		DWG. NO. VENA-K05A		
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			Jeff Lu		2021-06-18		ON-OFF STATUS FOR SCADA											
For Approval	2021-09-06	B	韋能台西			Jeff Lu		2021-06-18		台灣日立電網股份有限公司			Doc. No.			Resp. dept.		Scale		Lang.	
For Approval	2021-08-17	A	Customer			韋能台西		Prepared by		Date		台灣日立電網股份有限公司								Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18														

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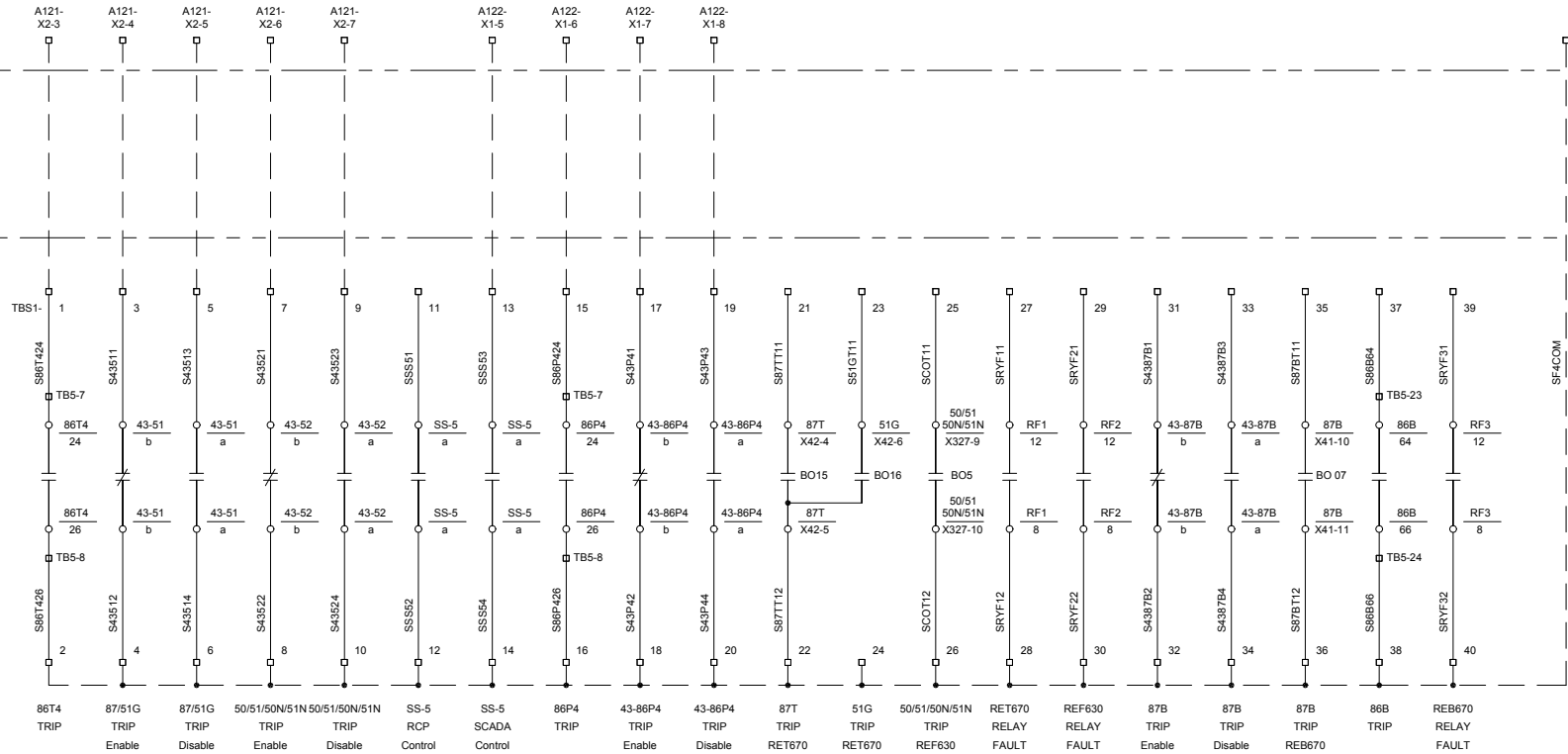


GIS Q05 LCC	RCP	2.0mm ² X16/C	K05BQ05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

		Project	VENA ENERGY		Approved by	Date	Title	Doc. des.		DWG. NO. VENA-K05B	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu	2021-06-18					
For Approval	2021-09-06	B			Jeff Lu	2021-06-18		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
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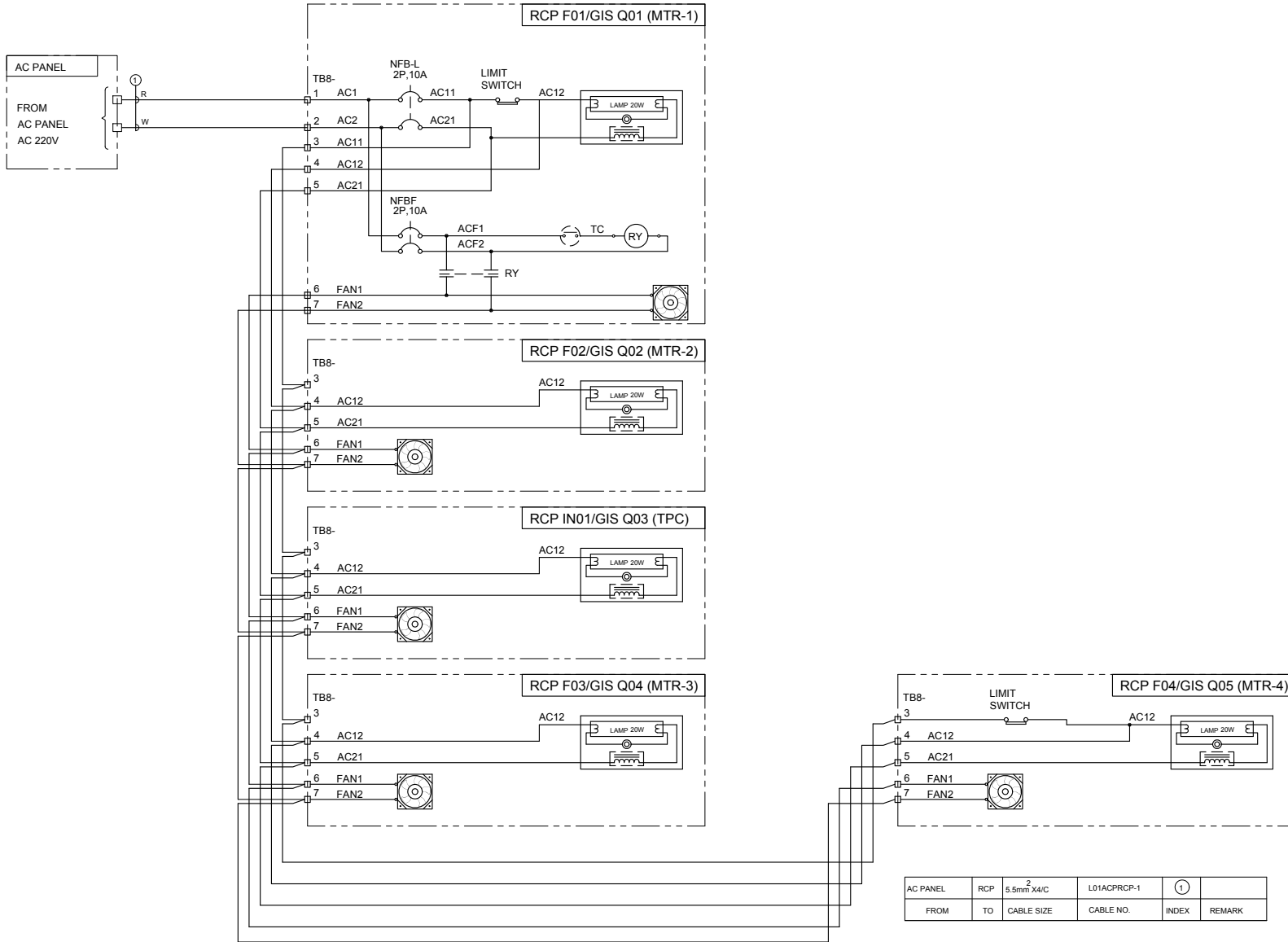
RCP F04 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM
(非本工程範圍)



RCP F04/GIS Q05 (MTR-4)

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-K05C	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		STATUS FOR RTU					
For Approval	2021-09-06	B			Checked by		Date				Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by		Date				Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18		台灣日立電網股份有限公司				Cont. ~	

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Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-L01	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		LIGHTING WIRING					
For Approval	2021-09-06	B			Jeff Lu		2021-06-18		DIAGRAM		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18						Cont. ~	

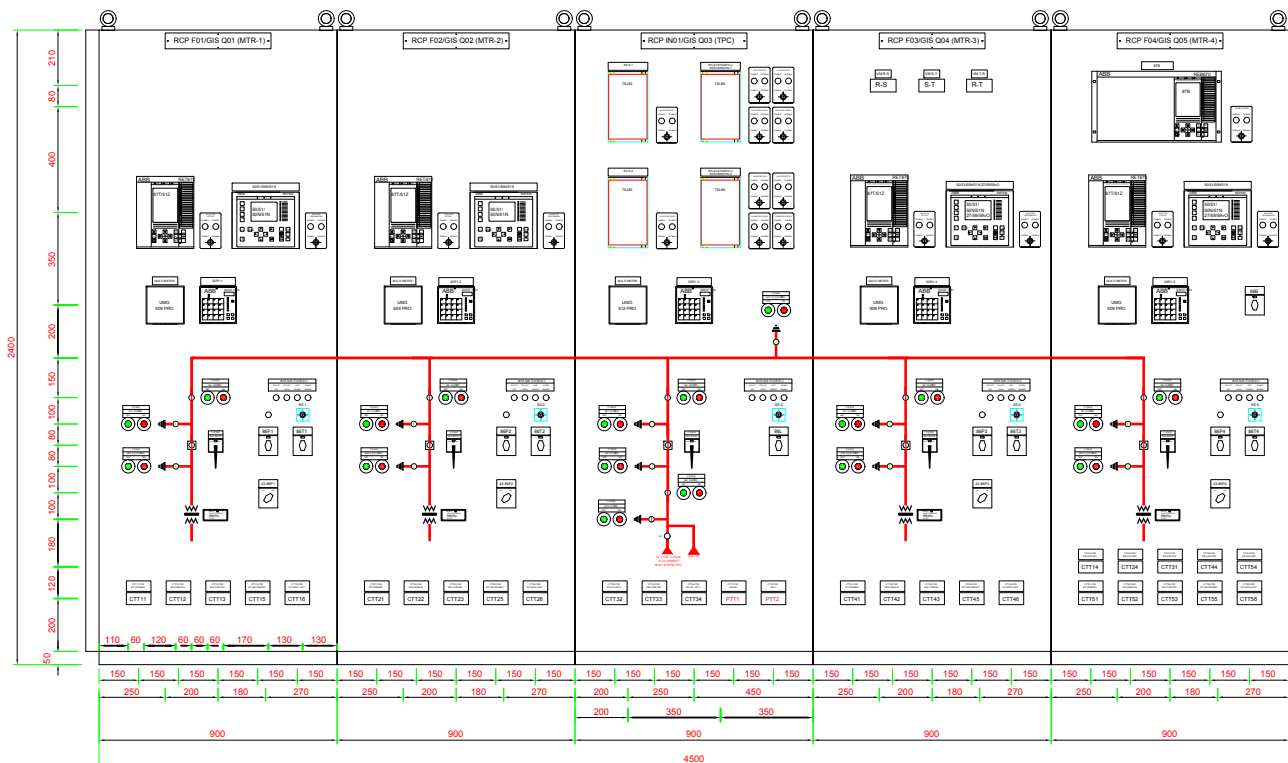
1 2 3 4 5 6 7 8

RELAY CONTROL PANEL SPECIFICATION

ITEM	EQUIPMENTS	DESCRIPTION	BRAND	TYPE	RCP F01	RCP F02	RCP IN01	RCP F03	RCP F04								SUB TOTAL
1	87L	LINE DIFFERENTIAL RELAY	Siemens	7SL86			2										2
2	67/67N	DIRECTIONAL OVER CURRENT RELAY															
3	50+2		Siemens	7SJ82			2										2
4	87B	BUS DIFFERENTIAL RELAY	ABB	REB670 19**1					1								1
5	27/59/59Vo	UNDER/OVER/GROUND VOLTAGE RELAY	ABB	REF630	1	1		1	1								4
6	81H-L	FREQUENCY RELAY															
7	50/51/50N/51N	OVER CURRENT RELAY															
8	87T/51G	TR. DIFFERENTIAL RELAY	ABB	RET670	1	1		1	1								4
9	51G	TR. GROUND OVER CURRENT RELAY															
10	30RY	ANNUNCIATER 16CH	ABB	SACO 16D1-AA	1	1	1	1	1								5
11																	
12	MULTI METER	V/A/KW/KVAR METER	Janitza	UMG512			1										1
13	MULTI METER	V/A/KW/KVAR METER	Janitza	UMG509	1	1		1	1								4
14	VM	VOLTAGE METER	HC	UMV				3									3
15	86T1~86T4,86P1~86P4,86L	LOCK OUT RY	E/S	LOR7805G	2	2	1	2	2								9
16	86B	LOCK OUT RY	E/S	LOR7810G					1								1
17																	
18	43-86P		FUJI 不二	B-SB2001 (2B2A)	1	1		1	1								4
19	CB CONTROL SWITCH	PULL OPERATION (OFF - 0 - ON)	FUJI 不二	B-SB2001 (2B2A)	1	1	1	1	1								5
20	CURRENT TEST TERMINAL	500V DC/AC 10A	FUJI 不二	KTT-AW4B	5	5	2	7	7								38
21	VOLTAGE TEST TERMINAL	500V DC/AC 10A	FUJI 不二	KTT-VS4B			4										4
22	CUBICLE ILLUMINATION	LED AC100~240V 50/60HZ 10W	東亞	LTS21441XAA	1	1	1	1	1								6
23	R / G / W LAMP INDICATOR	22mm 110V DC LED	AB	800F-D0C	13	13	4	4	4								44
24	CB/DS/ES POSTTION INDICATOR	22mm 110V DC R/G LED	LANDING	PPL22A-DS/127AD	7	7	5	5	5								29
25	DS/ES ON-OFF PUSH BUTTON	22mm 2NO R/G	IDEC	ABW120+HW9Z-KL1	12	12	8	8	8								48
26	MCCB	1P 2A	ABB	S201-C2			1										1
27	MCCB	2P 4A,6A,10A	ABB	S202-C4,C6,C10	3	2	2	2	2								13
28	MCCB	3P 2A	ABB	S203-C2			1										1
29	KEY SELECT SWITCH	22mm 2NO+2NC	IDEC	ASW2K-22	4	4											11
30	KEY SELECT SWITCH	22mm 4NO+4NC	K&N	CA10 A723	1	1	1	1	1								5
31	TERMINNAL BLOCK	600V AC/DC 40A (CT/VT)	IDEC	BNH-30W													
32	TERMINNAL BLOCK	600V AC/DC 21A	IDEC	BNH-15LW													
33	AUX RELAY	DC110V 4a/4b	OMRON	MY4N	5	4	4	4	4								25
34																	
35	Cubicle cover sheets colour (outside/inside)	RAL7035 THICKNESS: 60μ	LOCAL		1	1	1	1	1								5
36	Wire colour, Conductor cross section CT	Block, 10AWG(5.26mm²) 600V 105℃	PEWC														
37	Wire colour, Conductor cross section PT	Red, 12AWG(3.31mm²) 600V 105℃	PEWC														
38	Wire colour, Conductor cross section AC	Yellow, 14AWG(2.08mm²) 600V 105℃	PEWC														
39	Wire colour, Conductor cross section DC P	Blue, 14AWG(2.08mm²) 600V 105℃	PEWC														
40	Wire colour, Conductor cross section DC N	Blue, 14AWG(2.08mm²) 600V 105℃	PEWC														
41	Wire colour, Conductor cross section Earthing	Green, 14AWG(2.08mm²) 600V 105 C	PEWC														
42																	
43																	
44																	
45																	

			Project	VENA ENERGY	Approved by	Date	2021-06-18	Title	MATERIAL LIST	Doc. des.	DWG. NO.	VENA-M01
For Approval	2021-09-08	C			Jeff Lu							
For Approval	2021-09-06	B		161KV GIS S/S PROJECT	Checked by	Date	2021-06-18			Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by	Date	2021-06-18	台灣日立電網股份有限公司		Doc. No.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua							Cont. ~

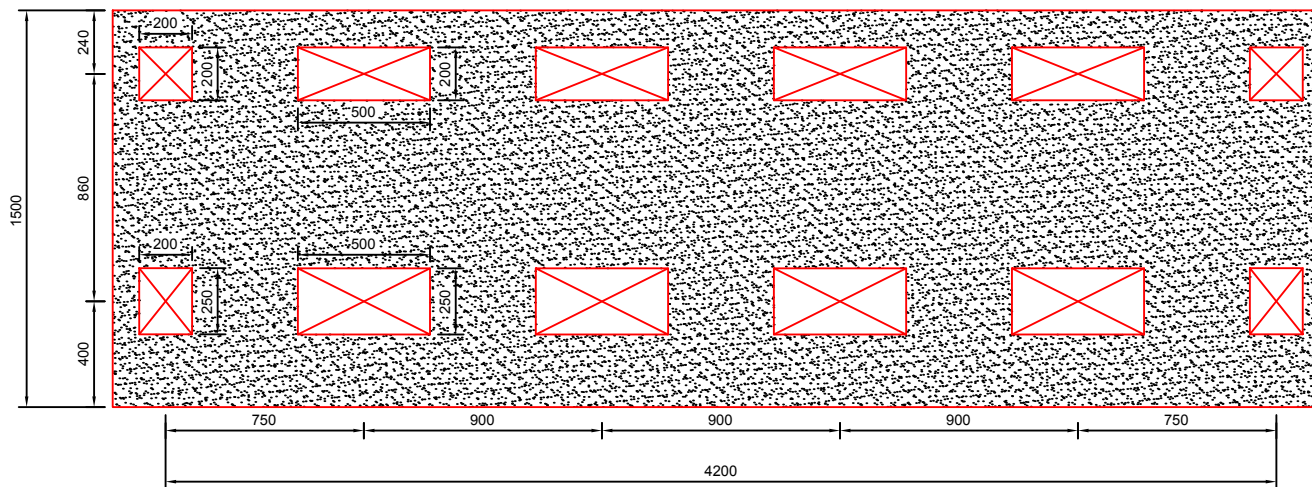
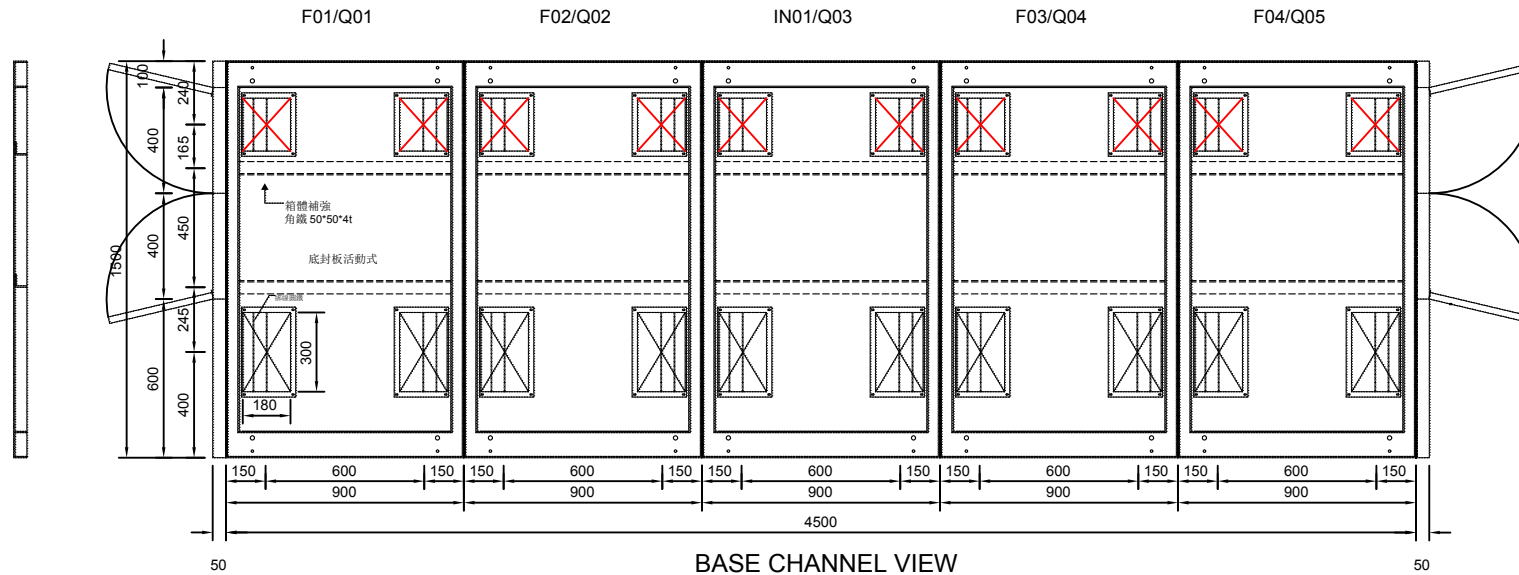
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FRONT VIEW

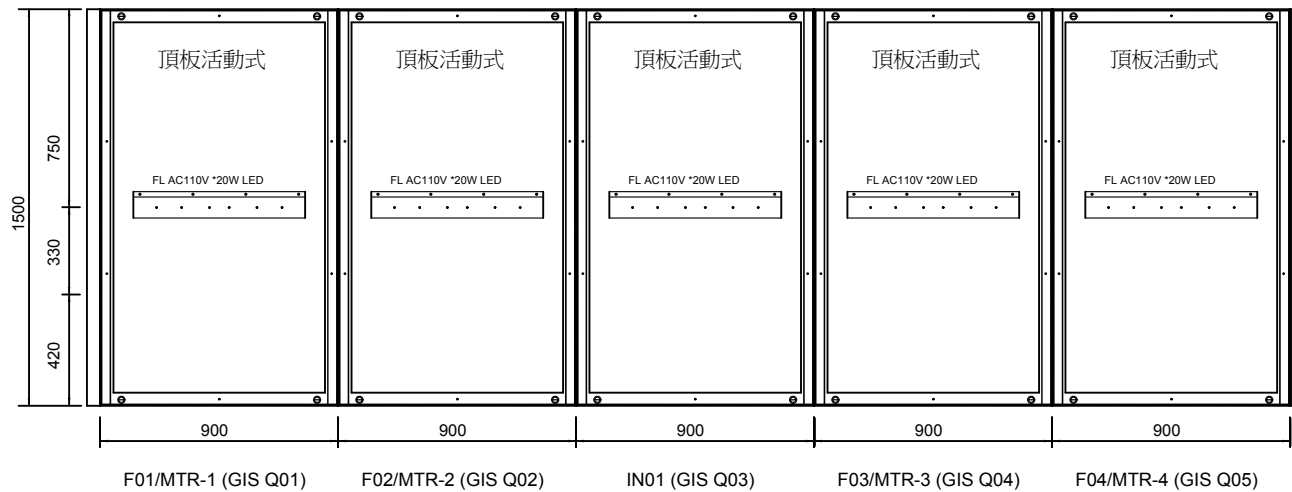
			Project			Approved by		Date		Title		Doc. des.		DWG. NO.	
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu		2021-06-18		161KV CONTROL PANEL FRONT VIEW				VENA- P01	
For Approval	2021-09-06	B				Checked by		Date				Resp. dept.		Scale	
For Approval	2021-08-17	A	Customer 韋能台西			Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
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			Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO.	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		161KV CONTROL PANEL BASE CHANNEL VIEW				VENA- P02	
For Approval	2021-09-06	B						Checked by		Date							
For Approval	2021-08-17	A						Jeff Lu		2021-06-18							
For Approval	2021-08-17	A	Customer 韋能台西					Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm		Replaces		Chuan Hua		2021-06-18								

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TOP CHANNEL VIEW

			Project VENA ENERGY 161KV GIS S/S PROJECT			Approved by Jeff Lu	Date 2021-06-18	Title 161KV CONTROL PANEL TOP CHANNEL VIEW	Doc. des.		DWG. NO. VENA-P03	
For Approval	2021-09-08	C				Checked by Jeff Lu	Date 2021-06-18		Resp. dept.		Scale	Lang.
For Approval	2021-09-06	B	Customer 韋能台西			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
For Approval	2021-08-17	A									Cont. ~	
Issued for	Date	Rev.	Derived fm	Replaces								



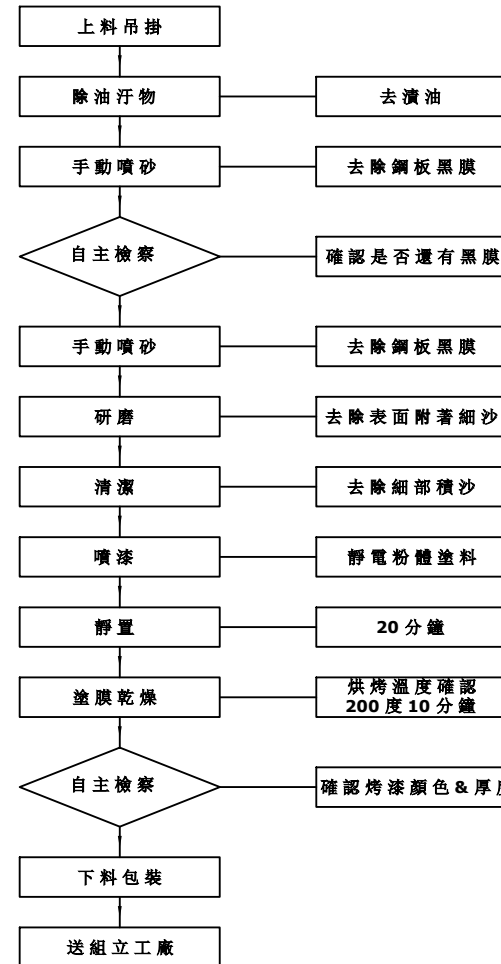
LEFT SIDE VIEW

RIGHT SIDE VIEW

RIGHT&LEFT INSIDE VIEW

			Project		Approved by Jeff Lu	Date 2021-06-18	Title 161KV CONRTOL PANEL SIDE VIEW	Doc. des.		DWG. NO. VENA-P04	
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.	
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18		Doc. No.			Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西				台灣日立電網股份有限公司			Cont. ~	
Issued for	Date	Rev.	Derived fm	Replaces							

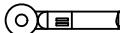

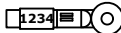

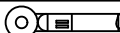



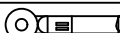



配電盤塗裝流程



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			Project		VENA ENERGY	Approved by	Date	Title	Doc. des.		DWG. NO. VENA-Q01	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		韋能台西	Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Jeff Lu	2021-06-18		Resp. dept.		Scale	Lang.
For Approval	2021-08-17	A				Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18				Cont. ~	

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線徑及顏色(僅盤內部份)			<input type="checkbox"/> 模擬母線顏色		相序/極性排列				
種 類		線 徑	線 色	電 壓	顏 色	種 類		標 準	其 他
		標 準	標 準	345KV	橙 色	交流	由左至右	R-S-T-N	
CT二次側回路		10AWG	黑 色	161KV	紅 色		由上至下	R-S-T-N	
PT二次側回路		12AWG	紅 色	69KV	藍 色		由前至後	R-S-T-N	
交流控制回路		14AWG	黃 色	34.5KV	棕 色	直流	由左至右	P-N	
直流控制回路		14AWG	藍 色	22KV	粉紅色		由上至下	P-N	
接地線	CT PT二次側	10AWG	綠 色	11KV	白 色		由前至後	P-N	
	儀表設備	14AWG	綠 色	接 地	黃底黑線條				
終 端 處 理 方 式				電線種類	PVC絞線	控制及操作電壓			
CT PT二次側回路		絕緣端子				斷路器控制電路		<input type="checkbox"/> DC 125V	
控制線路		絕緣端子				加熱器及日光燈及散熱風扇		<input type="checkbox"/> AC 220V	
						線號排列方向			
端 子 型 式									
CT二次側回路		<input type="checkbox"/>		<input type="checkbox"/>					
PT二次側回路		<input type="checkbox"/>		<input type="checkbox"/>					
控制回路		<input type="checkbox"/>		<input type="checkbox"/>					

☒ 記號表示被選擇使用項目

			Project		VENA ENERGY	Approved by	Date	Title	電驛及控制盤製裝規範(二)	Doc. des.	DWG. NO. VENA-Q02	
For Approval	2021-09-08	C			161KV GIS S/S PROJECT	Jeff Lu	2021-06-18					
For Approval	2021-09-06	B				Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer		韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1		
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	Cont. ~					

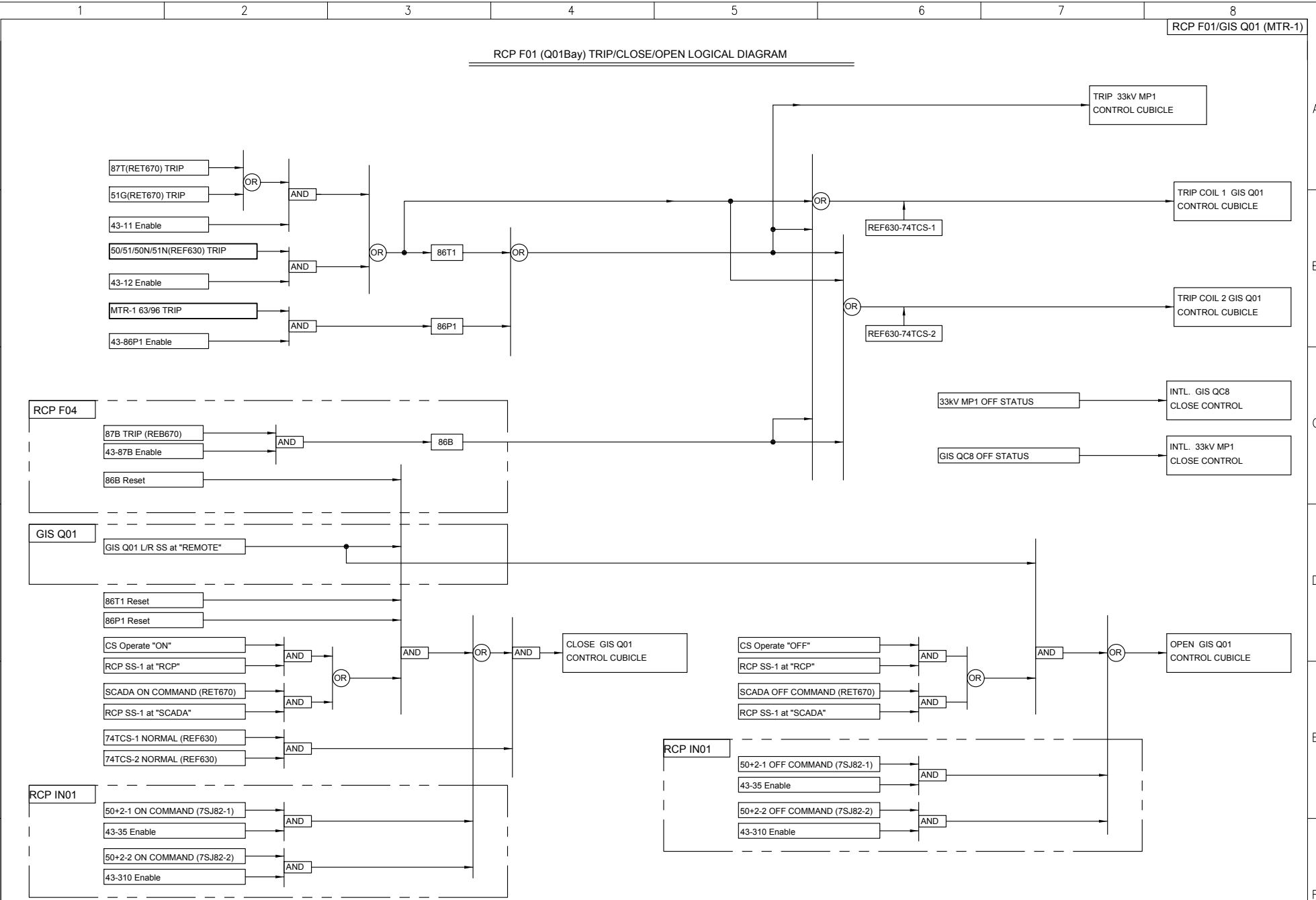
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使 用 環 境		盤 體 完 成 後 塗 裝	
周圍溫度範圍	屋外	塗裝處理依塗裝工程規範書	
	屋內-5°C~40°C	表面顏色	<input type="checkbox"/> 台灣油漆公會 NO.
相對濕度	最高90%		<input checked="" type="checkbox"/> RAL7035 垂紋漆 國邦790-49780H
高度	海拔1000公尺以下	內部顏色	<input type="checkbox"/> 台灣油漆公會 NO.
安裝地點	<input checked="" type="checkbox"/> 屋內 <input type="checkbox"/> 屋外		<input checked="" type="checkbox"/> RAL7035 垂紋漆 國邦790-49780H
電纜進出方式	<input checked="" type="checkbox"/> 底部 <input type="checkbox"/> 頂部	塗料材質	<input checked="" type="checkbox"/> 環氧/聚脂/填充料/色料/添加劑
盤 體 構 造		盤 體 材 質	
前面	<input type="checkbox"/> 門 <input checked="" type="checkbox"/> 板式	前板/後門板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 3.2mm
後面	<input checked="" type="checkbox"/> 門 <input type="checkbox"/> 背板	側板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 2.3mm
側面	<input type="checkbox"/> 側板 <input type="checkbox"/> 側門 <input checked="" type="checkbox"/> 板式	底板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 2.3mm
底部	<input checked="" type="checkbox"/> 底板 <input type="checkbox"/> 放空	頂板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 2.3mm
頂部	<input checked="" type="checkbox"/> 頂板 <input type="checkbox"/> 屋頂	主骨架	<input checked="" type="checkbox"/> 角鋼 (ss41) L50*50*5t
保護構造	<input checked="" type="checkbox"/> 一般型 <input type="checkbox"/> 防塵型 <input type="checkbox"/> 防滴型	基礎座	<input checked="" type="checkbox"/> 槽鋼 100*50*5t 及角鐵50*50*5t 焊接組立
兩側開雙開門,開門處加PACKING		銘牌	<input checked="" type="checkbox"/> 壓克力,白底黑字
		盤 體 重 量	
		單一盤體重量	約500kg

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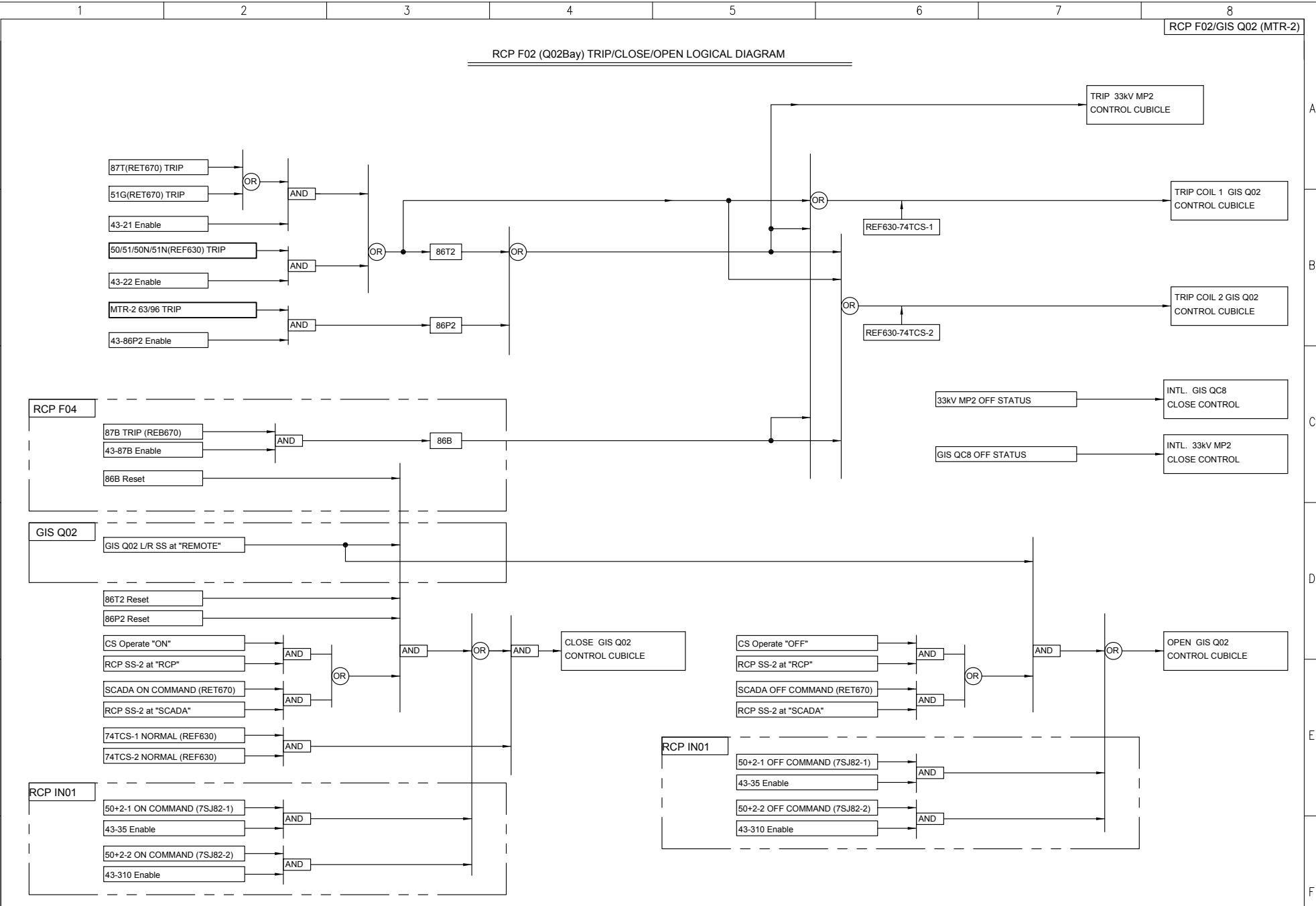
			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO. VENA-Q03	
For Approval	2021-09-08	C	161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	電驛及控制盤製裝規範(三)			
For Approval	2021-09-06	B			Jeff Lu	2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18			Cont. ~	

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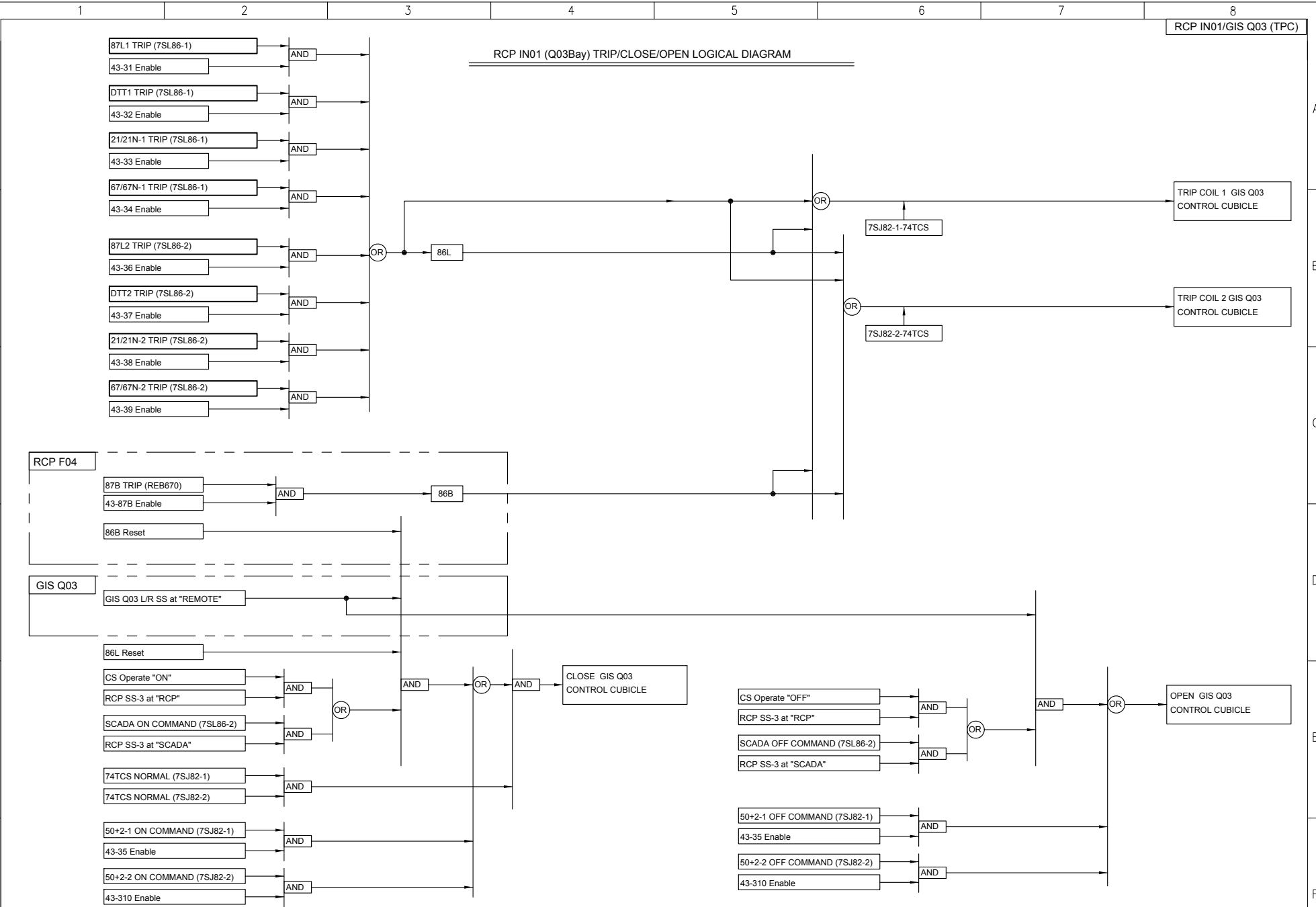
			Project			VENA ENERGY	Approved by	Date	Title	TRIP LOGICAL DIAGRAM FOR F01 FEEDER	Doc. des.	DWG. NO. VENA- X01		
For Approval	2021-09-08	C				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18						
For Approval	2021-09-06	B					Checked by	Date	台灣日立電網股份有限公司	Doc. No.	Resp. dept.	Scale	Lang.	
For Approval	2021-08-17	A	Customer 韋能台西				Jeff Lu	2021-06-18						
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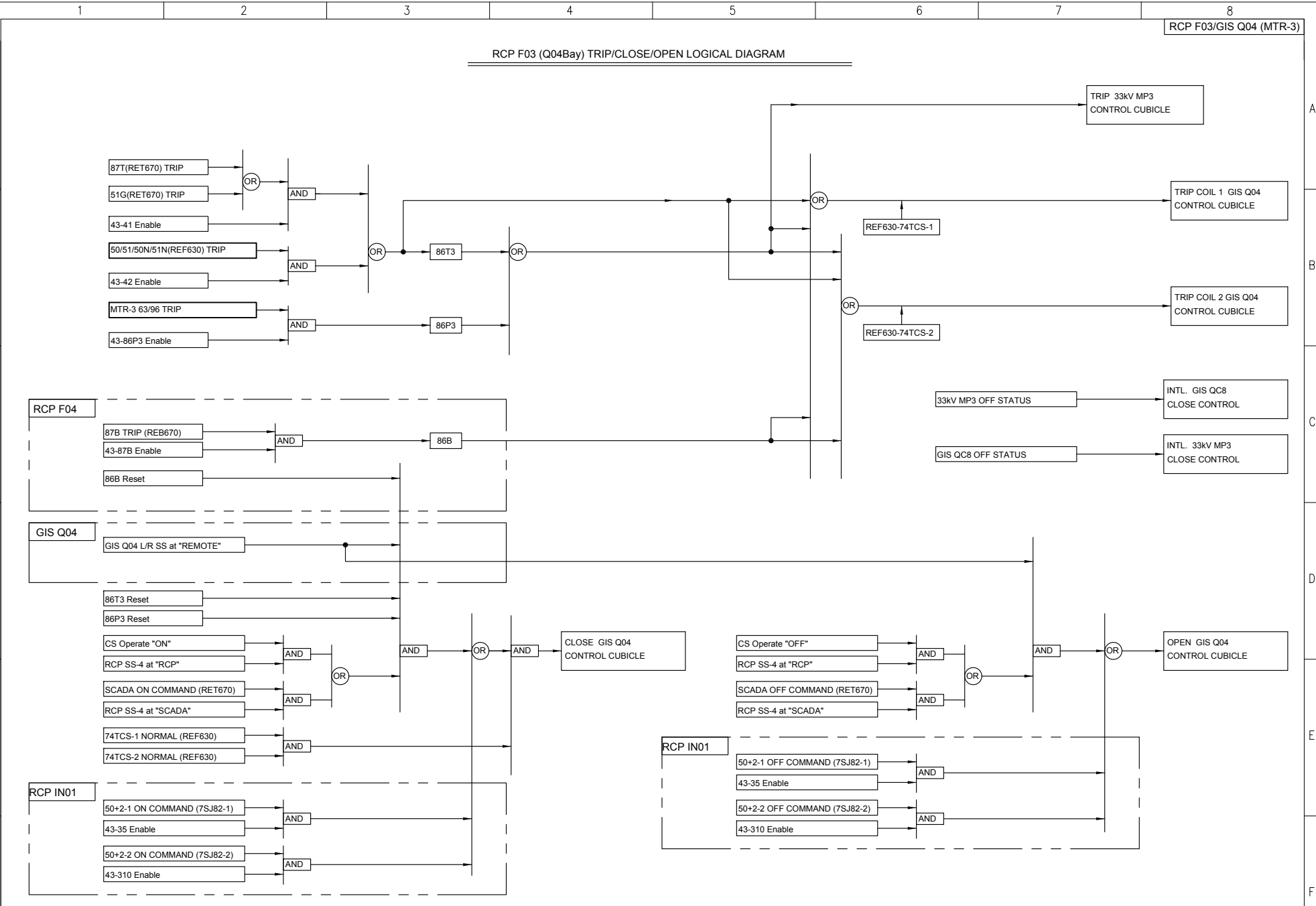
			Project			Approved by	Date	Title	Doc. des.	DWG. NO. VENA- X02		
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu	2021-06-18			TRIP LOGICAL DIAGRAM FOR F02 FEEDER	Resp. dept.	Scale
For Approval	2021-09-06	B				Checked by	Date	2021-06-18				
For Approval	2021-08-17	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.		Sheet 1	Cont. ~
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			Project			VENA ENERGY	Approved by	Date	Title	TRIP LOGICAL DIAGRAM FOR IN01 FEEDER	Doc. des.	DWG. NO. VENA- X03		
For Approval	2021-09-08	C				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18						
For Approval	2021-09-06	B					Checked by	Date						
For Approval	2021-08-17	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Resp. dept.	Scale	Lang.	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua		2021-06-18						
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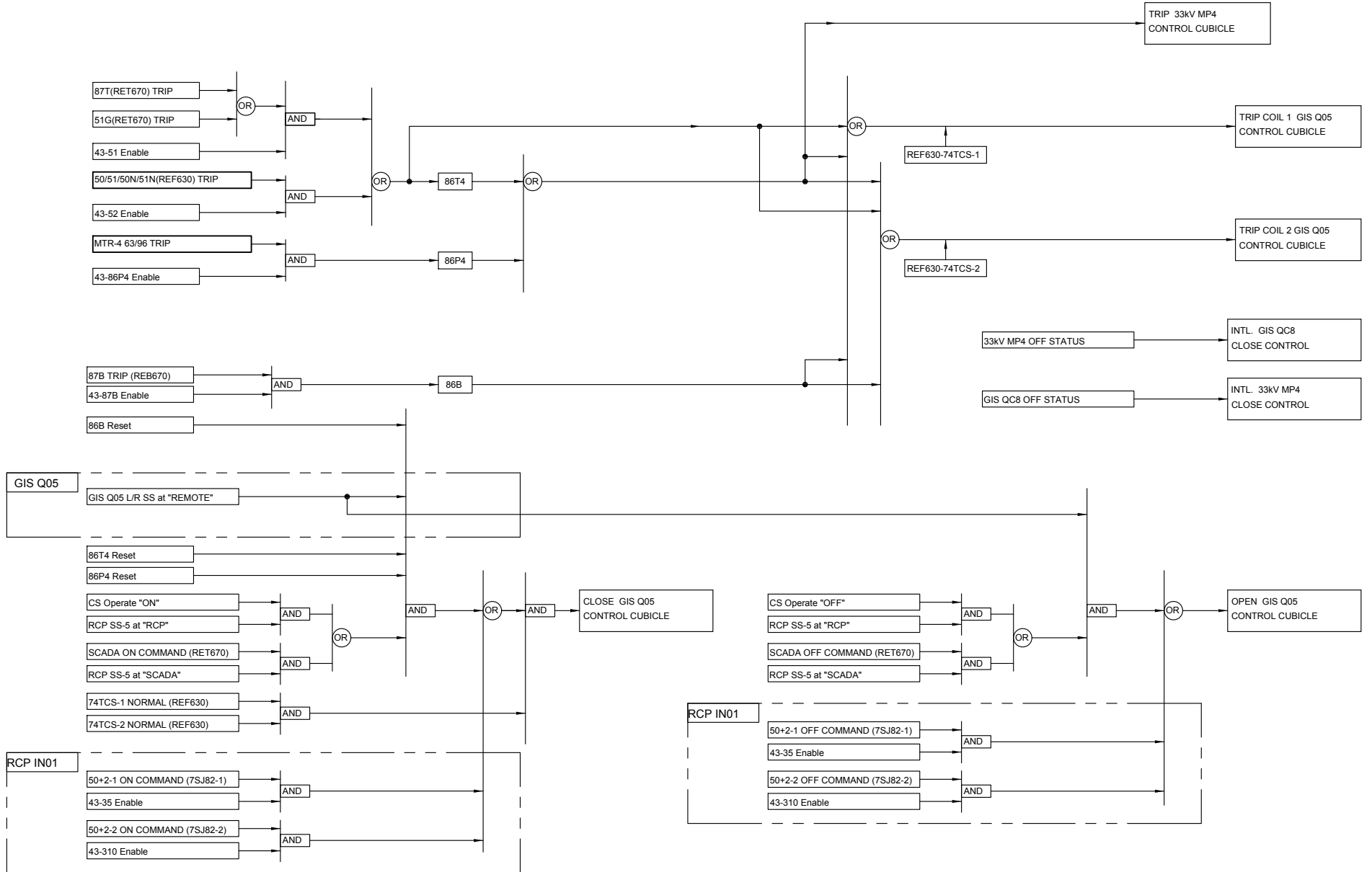


			Project			VENA ENERGY	Approved by	Date	Title	TRIP LOGICAL DIAGRAM FOR F03 FEEDER	Doc. des.	DWG. NO. VENA- X04		
For Approval	2021-09-08	C	161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	Resp. dept.				Scale	Lang.	
For Approval	2021-09-06	B				Checked by	Date				2021-06-18			
For Approval	2021-08-17	A				Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
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RCP F04 (Q05Bay) TRIP/CLOSE/OPEN LOGICAL DIAGRAM

RCP F04/GIS Q05 (MTR-4)



			Project			Approved by	Date	Title	Doc. des.	DWG. NO.			
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu	2021-06-18			TRIP LOGICAL DIAGRAM FOR F04 FEEDER	VENA- X05		
For Approval	2021-09-06	B				Checked by	Date				Resp. dept.	Scale	Lang.
For Approval	2021-08-17	A	Customer 韋能台西			Jeff Lu	2021-06-18	台灣日立電網股份有限公司	Doc. No.				
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date							
					Chuan Hua	2021-06-18							