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GREEN SECURE ENERGY SYSTEMS,.

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BAY MARSHALLING BOX KIOSK FOR 400KV SS (BOTH 400KV AND 220KV BAYS)

Customer : M/s. APTRANSCO

Project Name : AS APPLICABLE

CONTRACTOR : AS APPLICABLE

Manufacturer : M/s. Green Secure Energy Systems

P.O. No. : AS APPLICABLE

Job No. : AS APPLICABLE

Drawing No. : GSS-23-24-O41-BMBKIOSK

Quantity : AS APPLICABLE

Chief Engineer/Projects
APTRANSCO/VIS/Vijayawada.

Drawn By
RAMESH C

Checked By
Bhaskar

Approved By
Jothiswar

Total no. of pages
14

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					GREEN SECURE ENERGY SYSTEMS,. TITLE BAY MARSHALLING BOX KIOSK FOR 400KV SS (BOTH 400KV AND 220KV BAYS) PAGE TYPE COVER SHEET	DRN	GKK	SCALE	NA
						CHD	BB	DATE	26.02.2024
						APPD	JR	SHEET NO.	
						DRAWING No.		01 OF 14	
R1	03.04.2024	REVISED AS PER CUSTOMER COMMENTS 02.04.2024	SH			GSS-23-24-O41-BMBKIOSK		REV.	R1

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02	INDEX SHEET	02 OF 14	R1
03	GENERAL ARRANGEMENT	03 OF 14	R1
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11	PANEL SPACE HEATER CIRCUIT & TB DETAILS	09 OF 14	R1
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13	TERMINAL BLOCKS DETAILS	10 OF 14	R1
14	BILL OF MATERIALS	10 OF 14	R1

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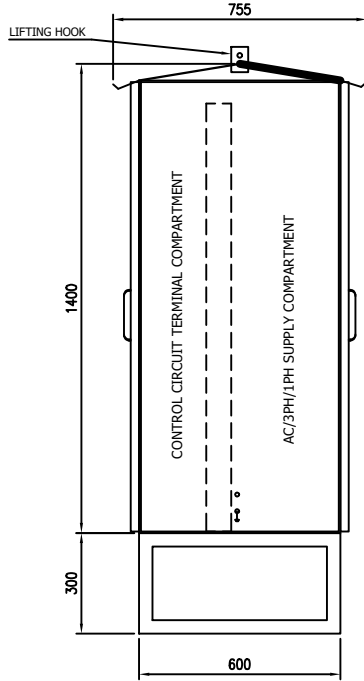
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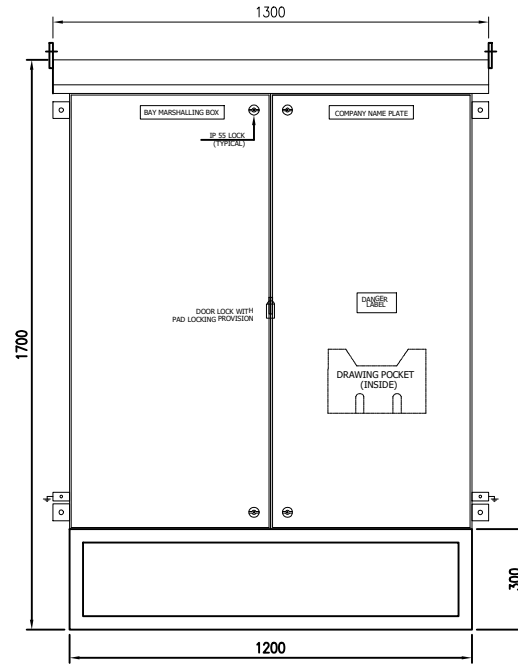
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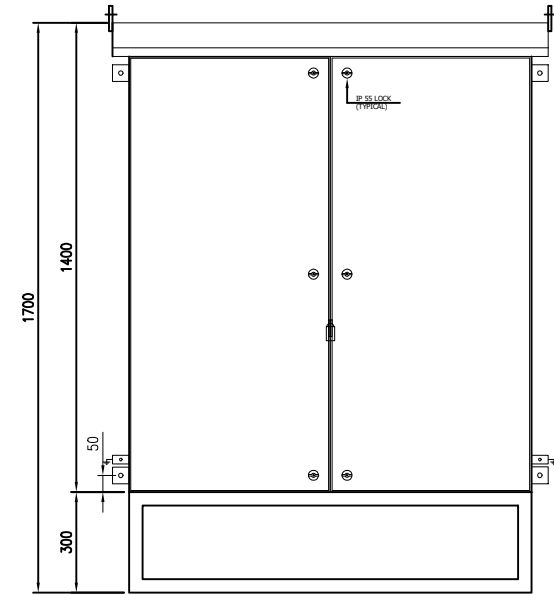
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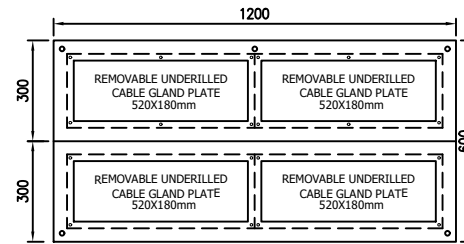
SIDE VIEW



FRONT VIEW



BACK VIEW



BOTTOM VIEW

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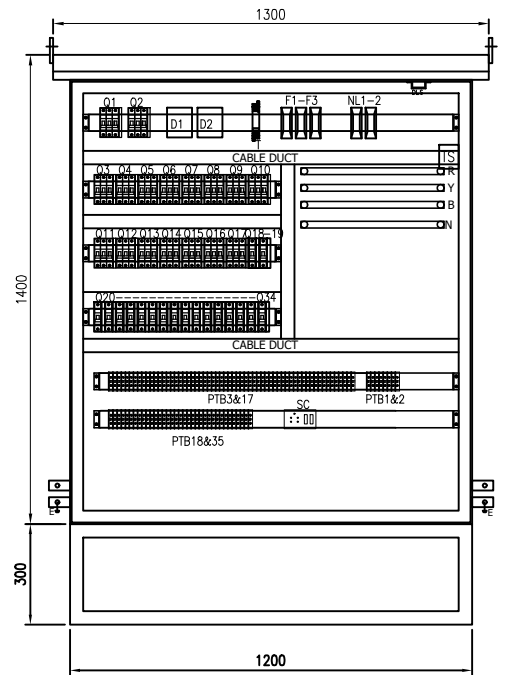


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PAGE TYPE	GENERAL ARRANGEMENT	GSS-23-24-041-BMBKIOSK	REV.	R1	

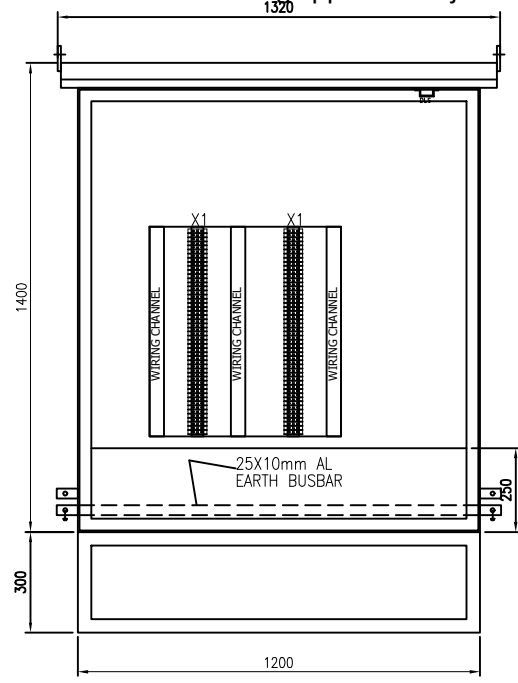
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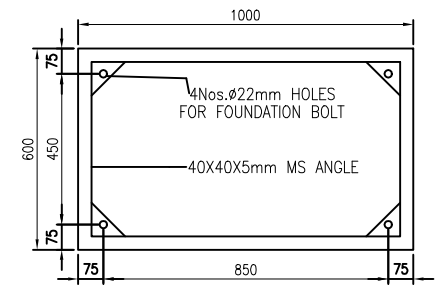
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FRONT INTERNAL VIEW



REAR INTERNAL VIEW



FOUNDATIONAL PLANE

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GENERAL TECHNICAL PARTICULARS

1. (a) Type Of Panel : Non-Drawout Type
: Non-Compartmentlised Structure
: Construction Single Front
- (b) Type Of Mounting : Pedestal Mounting
2. Cable Entry : Bottom (Incoming/Outgoing)
3. Thickness Of Sheet Steel : 3 mm AL Alloy Material
4. Busbars : AL. Busbar
5. Busbar Size : 25x6mm AL. Busbar
6. Earth Busbar Size : 25x10mm AL. Busbar
7. Busbar Supports : SMC/DMC Moulded Support
8. Control Wiring With Flexible Copper Conductor PVC Insulated Wires, 1.1kV Grade.
 - (a) Voltage Circuit : 2.5Sq. mm (Black)
 - (b) Current Circuit : 2.5Sq. mm (Red, Yellow, Blue)
 - (c) Earthing : 2.5Sq. mm (Green) For All Components.
 - (d) DC Circuit : 2.5Sq. mm (Grey)
9. Minimum Size Of Power Wiring, Flexible Copper Conductor PVC Insulated Wires, 1.1kV Grade.
 - (a) Upto 10A: 2.5Sq mm, Copper
 - (b) Upto 24A: 4Sq mm, Copper
 - (c) Upto 32A: 6Sq mm, Copper
 - (d) Upto 40A: 10Sq mm, Copper
 - (e) Upto 63A: 35Sq mm, Copper
 - (f) Upto 100A: 70Sq mm, Copper
10. PVC Tag Ferrules : 2.5Sq mm PVC With NOS
11. Degree of Protection : IP-55
12. Painting
 - (a) Treatment : Seven Tank Process
 - (b) Type : Powder Coated
 - (c) Shade : 631 Of IS:5 (Interior & Exterior)
13. Test Voltage (IS:8623 Part-1)
 - (a) Insulation Test : 500V Megger Power & Control
 - (b) High Voltage Test : 2.5kV For 60 Sec
14. Gasket Type : EPDM Gasket
15. Type Of Name Plate : Engraved
With White Letter Son Black Surface
16. All hinge doors shall be earth through 6Sq mm Flexible Earthing Braid
17. The covers on rear shall be of bolted type
18. The Panel shall generally confirm to IS:8623
19. Name Plate, Caution Plate and Labels will be provided
20. Temperature rise over design ambient temperature of 50 deg C shall not exceed 40 deg C.
21. All door will have padlocking facility
22. All dimensions are in mm
23. Busbar clearance between phases shall be 25mm & Phase & Neutral/Earth 25mm, Wherever it is not feasible to maintain these clearance in such places phase barriers shall be provided.
24. All Busbar with colour Coded with heat shrinkable PVC sleeves as per IS:11353 RYB For Phases, Black for Neutral and Green for earth terminal
25. Acrylic Sheet to be Provided for Busbar

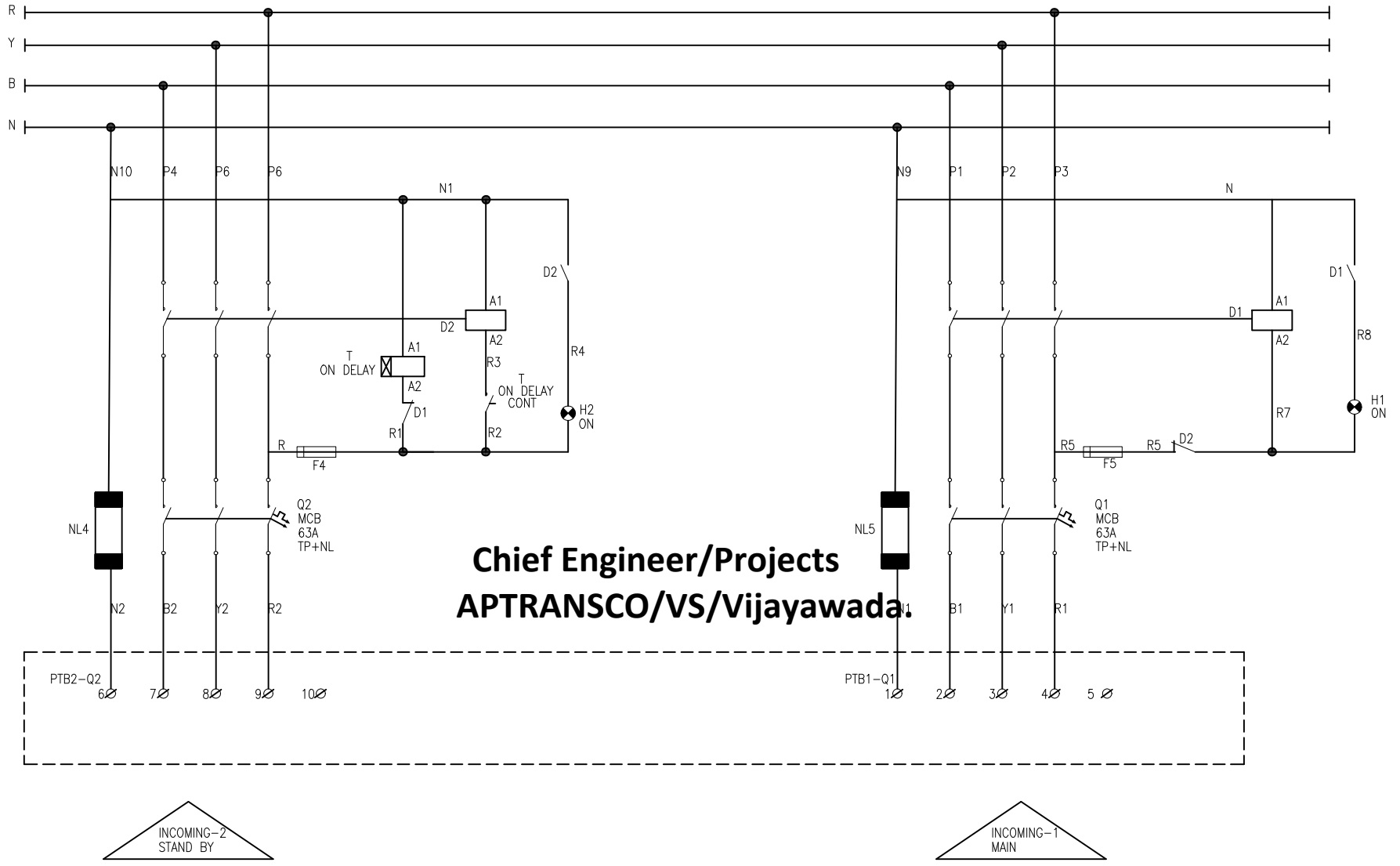
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INCOMING-2
STAND BY

INCOMING-1
MAIN

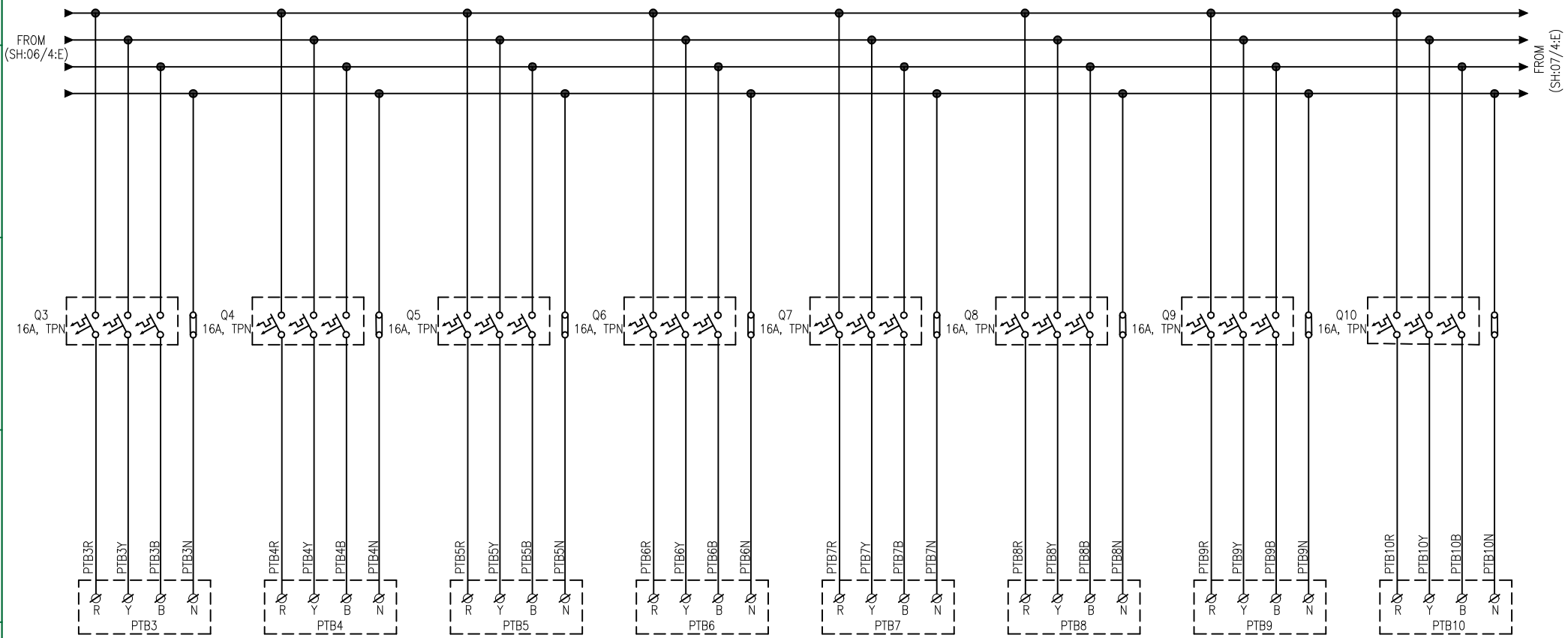
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TITLE	BAY MARSHALLING BOX KIOSK FOR 400KV SS (BOTH 400KV AND 220KV BAYS)			DRN	GKK	SCALE	NA
	PAGE TYPE	POWER & CONTROL CIRCUIT DIAGRAM		CHD	BB	DATE	26.02.2024
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				DRAWING No.		06 OF 14	
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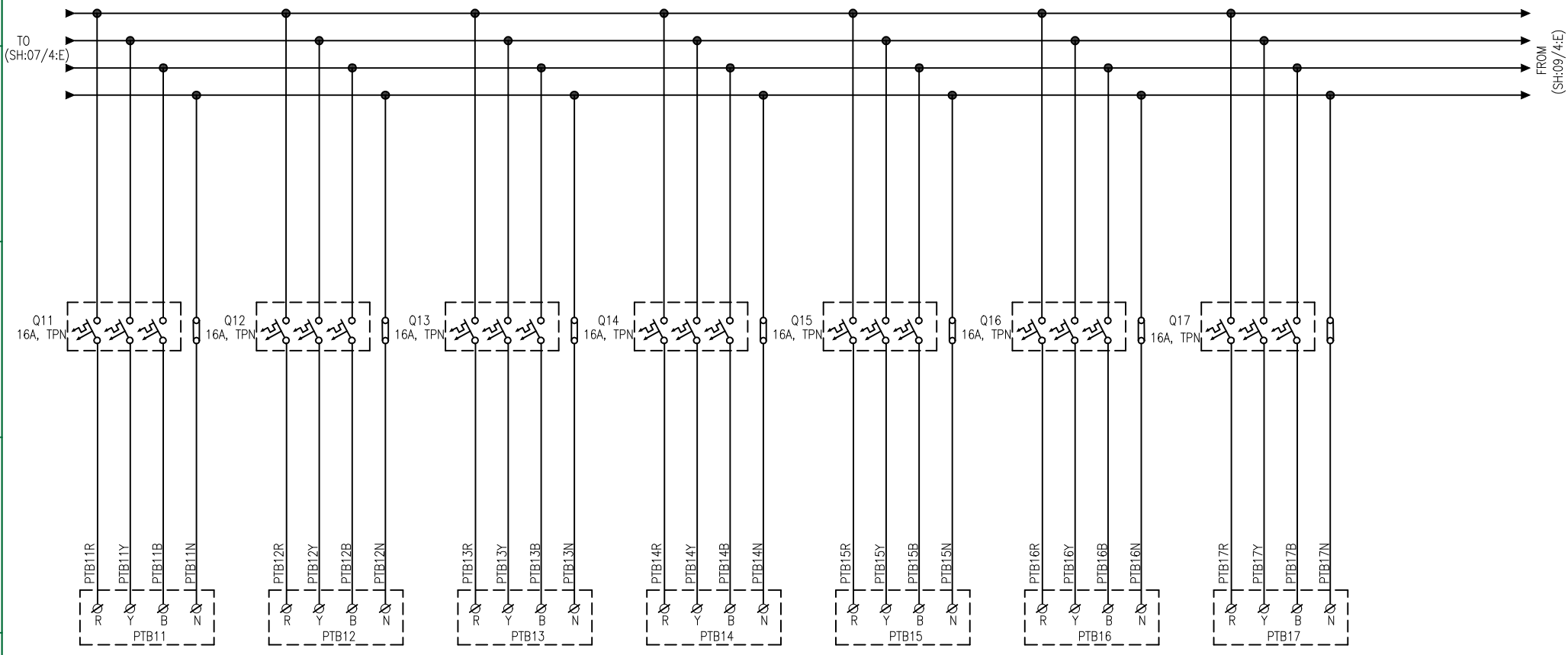


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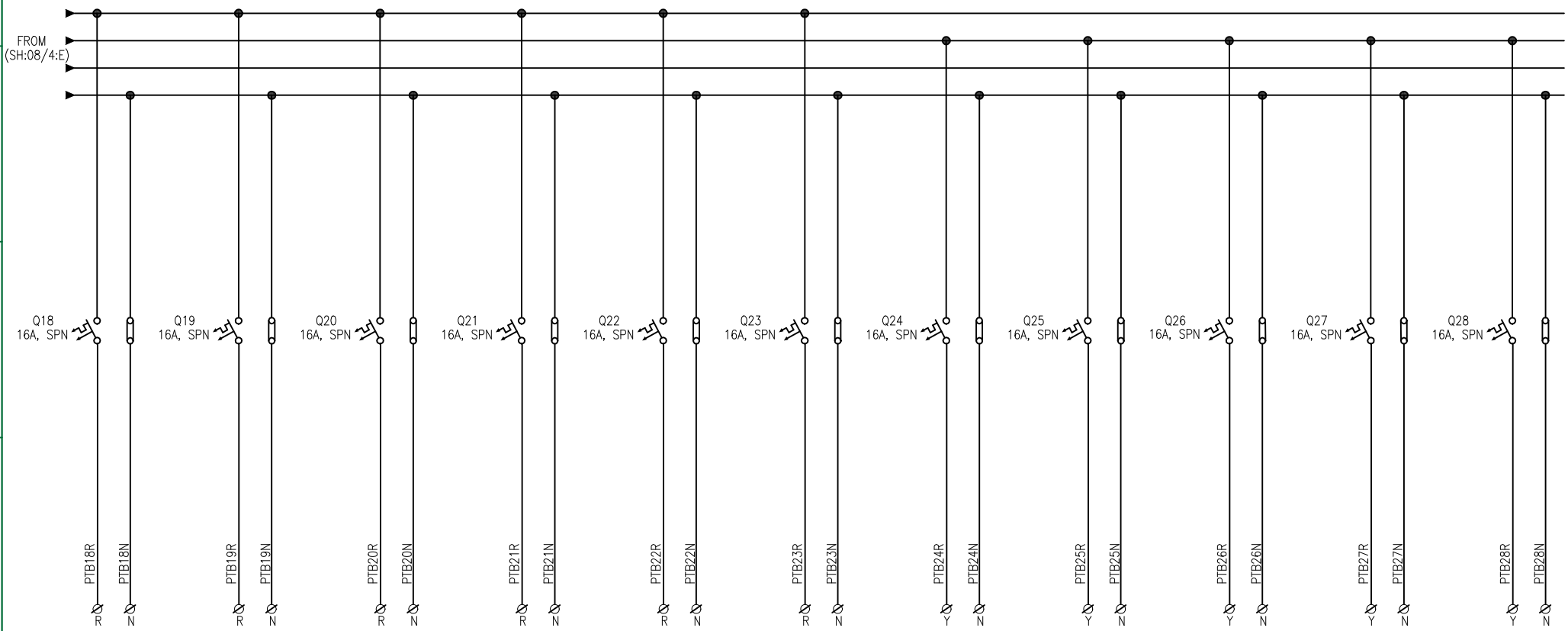
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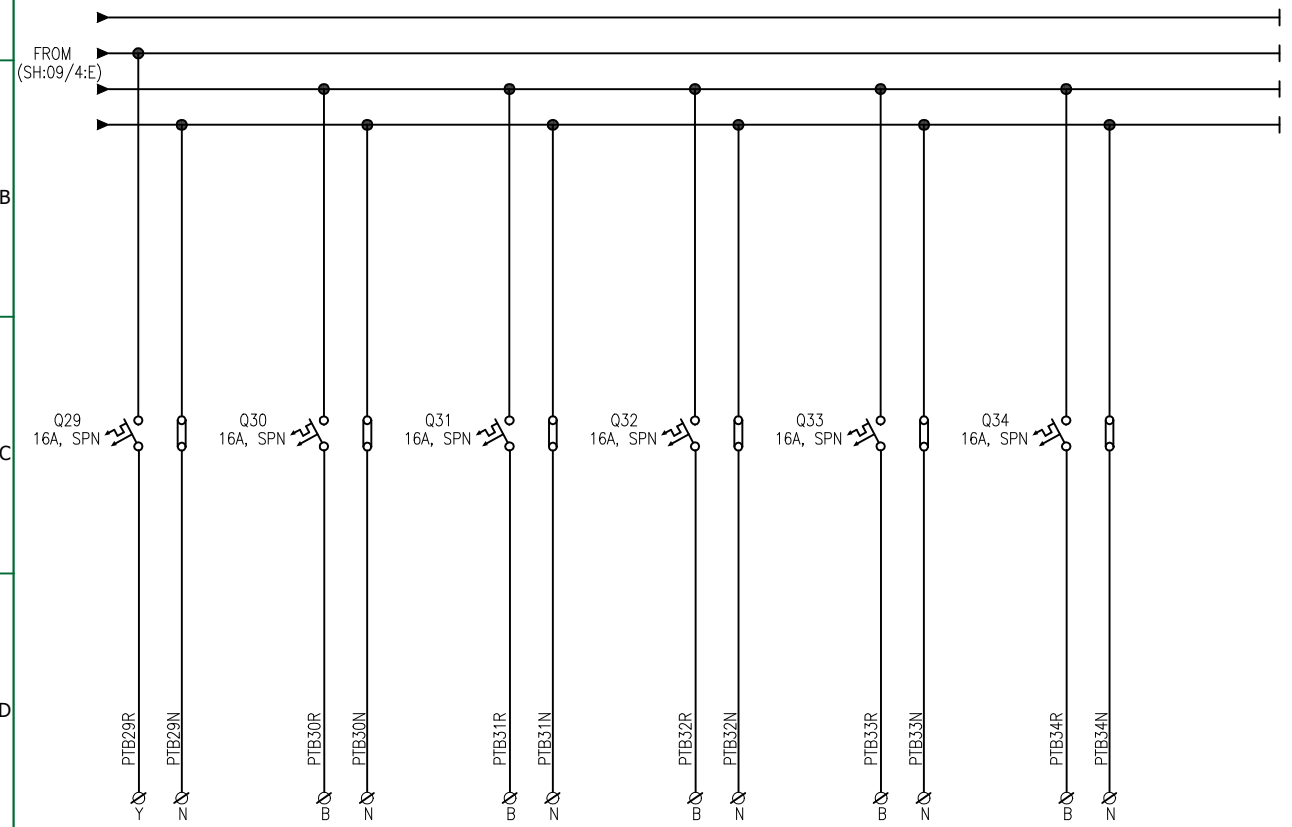
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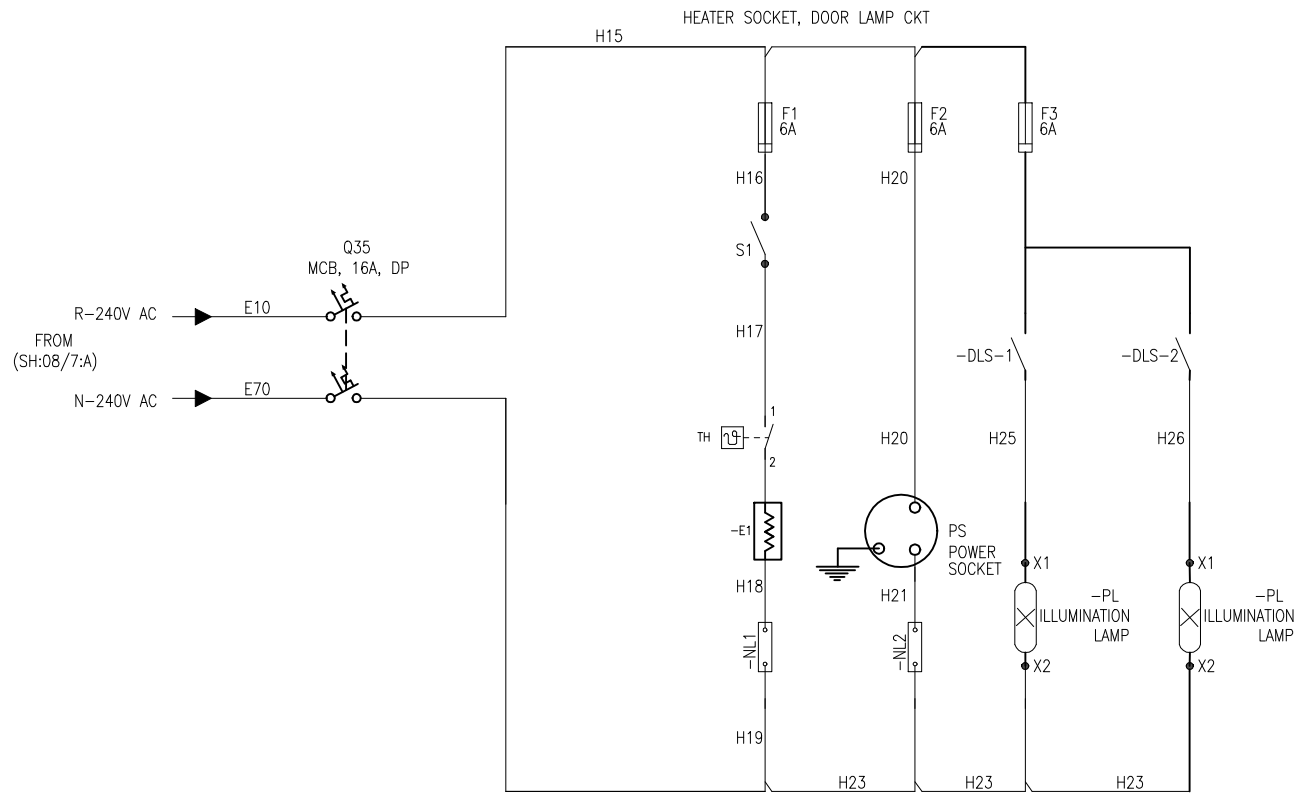
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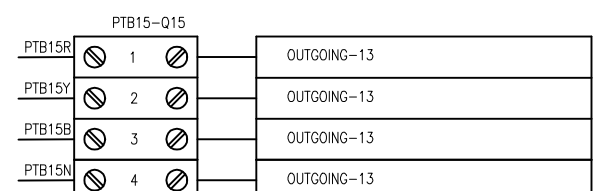
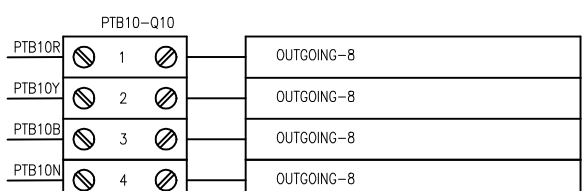
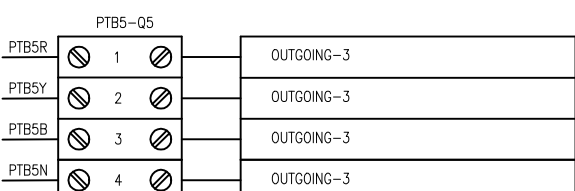
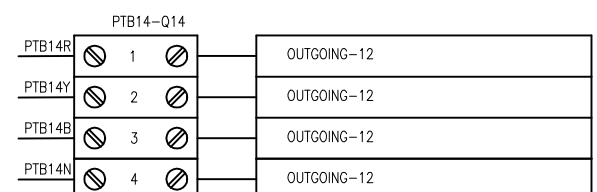
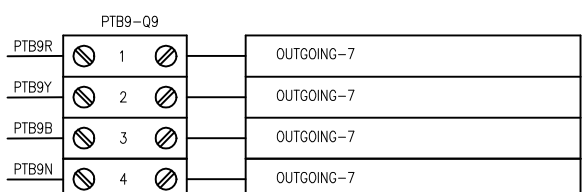
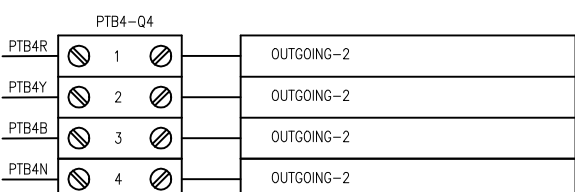
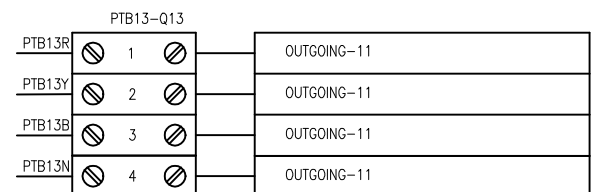
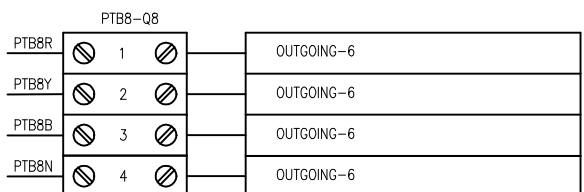
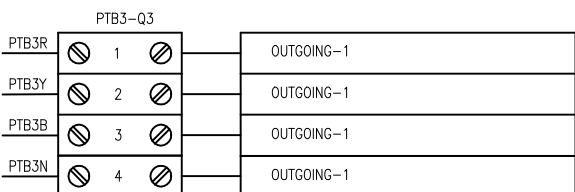
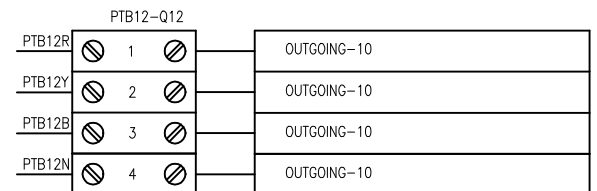
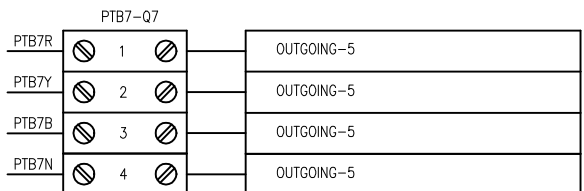
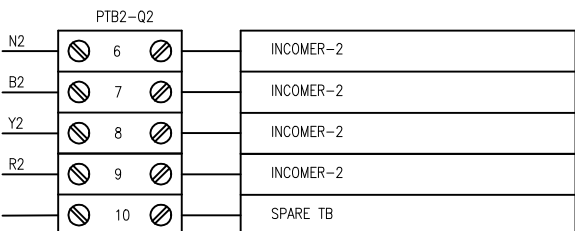
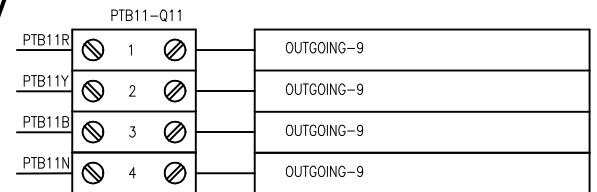
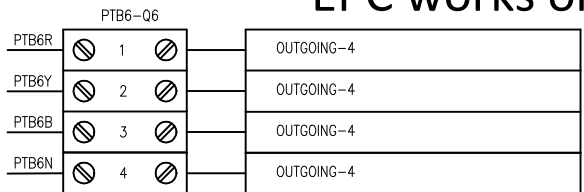
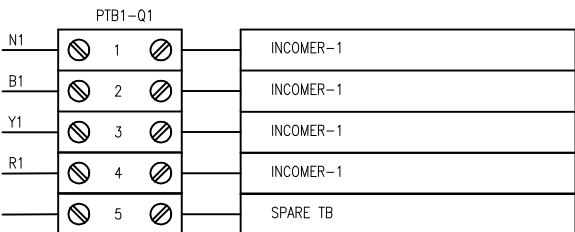
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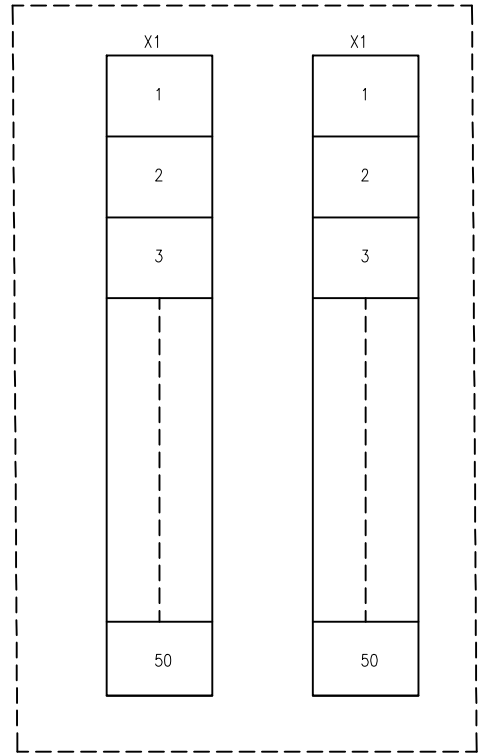
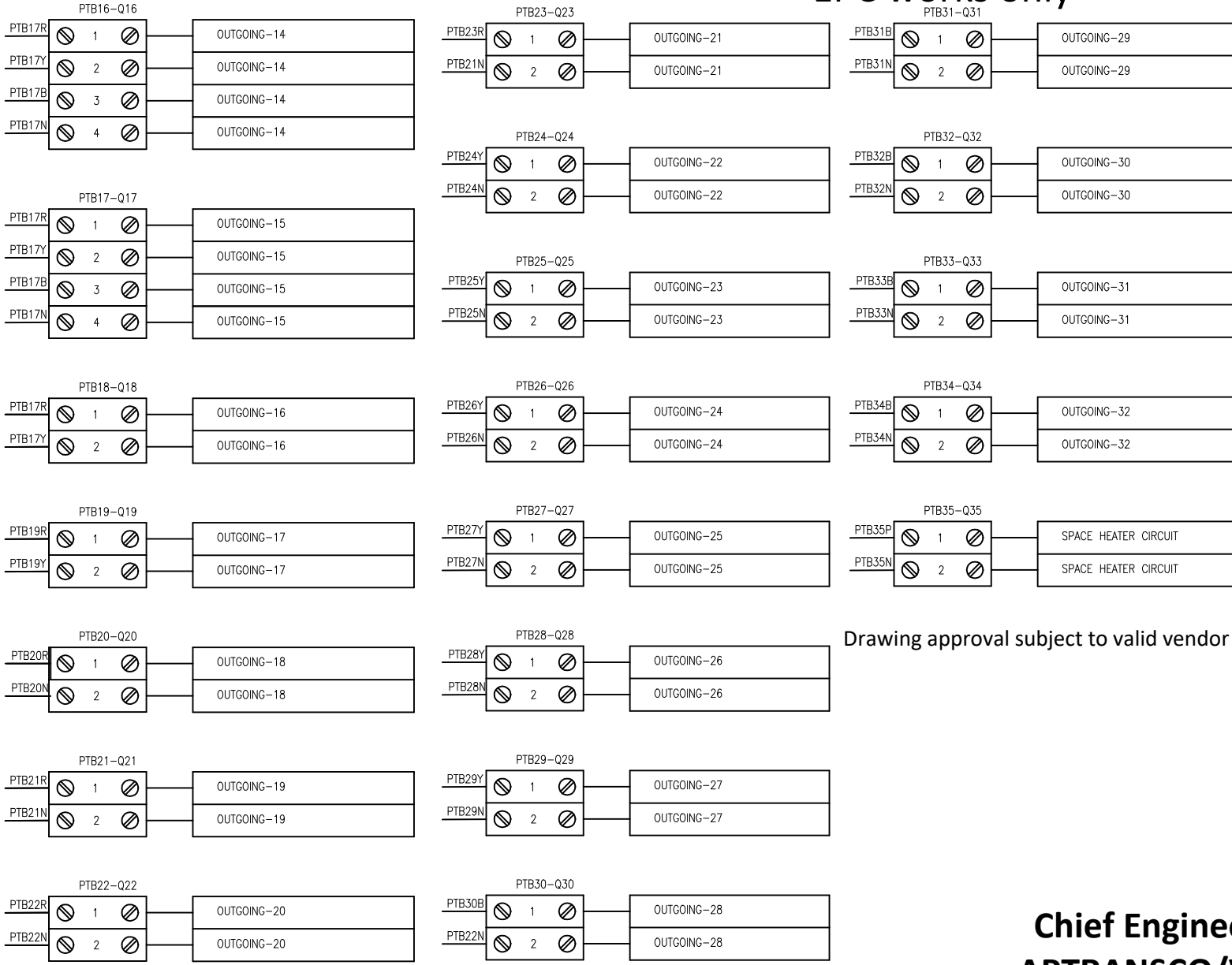
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PAGE TYPE	TERMINAL BLOCKS DETAILS			

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TERMINAL BLOCKS



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BIL OF METERIALS

Sl. No.	Tag	Technical Specification	Make	UOM	Quantity
1	PNL	Pedestal Mounting type, Single Front, Indoor type with 3mm aluminum cubicle. Dimension: 1400x1000x600 (HxWxD) Base Stand height of 300mm with Black Paint Panel Inside & Outside Powder coated with RAL 7035 Aluminium bus bars as per current rating And earth Busbar 25x10mm AL.	GREEN SECURE ENERGY SYSTEMS	Nos	1
INCOMER :					
1	Q1&Q2	Miniature Circuit Breaker 63A, TPN, 10kA C-Curve	L&T	Nos	2
2	1H1&2H1	Indication lamp 22.5mm Dia 230V AC Red Colour for I/C-1&2 Healthy	Teknic	Nos	2
3	D1&D2	Contactora -63A-240V AC Coil -1NO+1NC	L&T	Nos	2
4	ADD	Aux Block -1NC	L&T	Nos	2
5	NL	NEUTRAL LINK	REPUTED	Nos	2
6	T	Timer -0.1S to 10Hrs -2 C/O -24V -240V AC /DC	L&T	Nos	1
7	Q3-Q17	Miniature Circuit Breaker 16A, TPN, 10kA C-Curve	L&T	Nos	15
8	Q18-Q34	Miniature Circuit Breaker 16A, SPN, 10kA C-Curve	L&T	Nos	17
9	Q35	Miniature Circuit Breaker 10A, DP, 10kA C-Curve	L&T	Nos	1
10	F(4-5)	HRC Fuse -Slow -6A-415V AC clip on	Bussman	Nos	3
11	F(4-5)	Fuse base, 20A, 550V AC	Bussman	Nos	3
12	PTB1-34	Power terminal block -57A With Spares	Elmex	Nos	104
13	X1	Terminal Blocks 40A, Single	Elmex	Nos	100
Panel Space Heater Circuit					
1	PNL	Panel Lamp 230V AC 5W	Philips	Nos	2
2	DLS1-2	Door Limit Switch With 1NO+1NC	Siemens	Nos	2
3	SH	Space Heater 100W 230V AC	Girish ego	Nos	1
4	S1	Toggle switch PM-SPST ON/OFF 6A	Girish ego	Nos	1
5	SC	Plug & Socket -240V ,20A,2P+E	BCH/ROMA	Nos	1
6	TH	Thermostat (30-85)C-15A-250V AC +1NC +brack	Girish ego	Nos	1
7	NL(1-2)	Disconnecting type neutral link-15A	REPUTED	Nos	2

Drawing approval subject to valid vendor registration

**Chief Engineer/Projects
APTRANSCO/VS/Vijayawada.**

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						DRN	GKK	SCALE	NA
						CHD	BB	DATE	26.02.2024
				TITLE BAY MARSHALLING BOX KIOSK FOR 400KV SS (BOTH 400KV AND 220KV BAYS)		APPD	JR	SHEET NO.	
						DRAWING No.		14 OF 14	
R1	03.04.2024	REVISED AS PER CUSTOMER COMMENTS 02.04.2024	SH	PAGE TYPE		BILL OF MATERIALS		GSS-23-24-041-BMBKIOSK	REV. R1
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.									