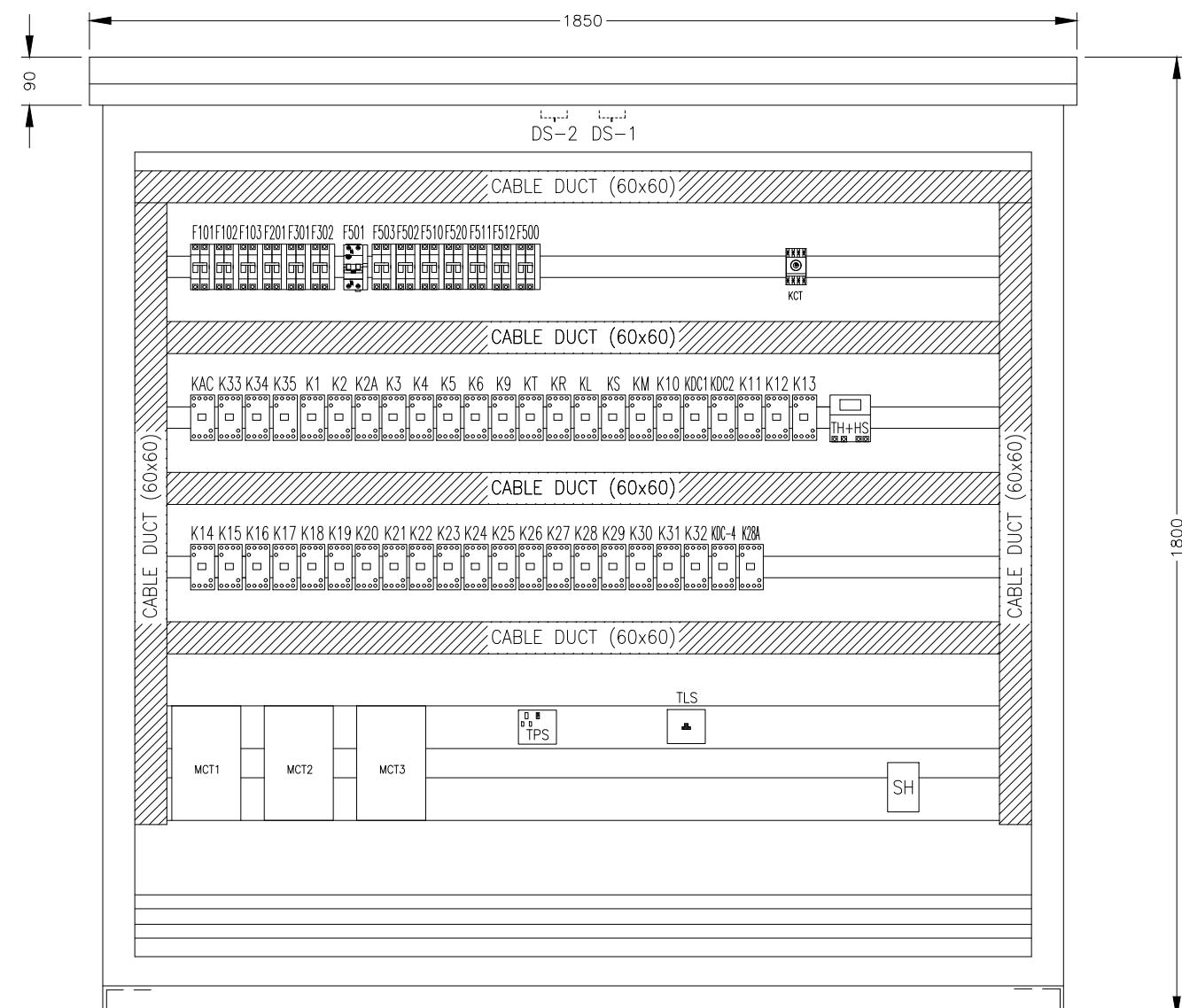
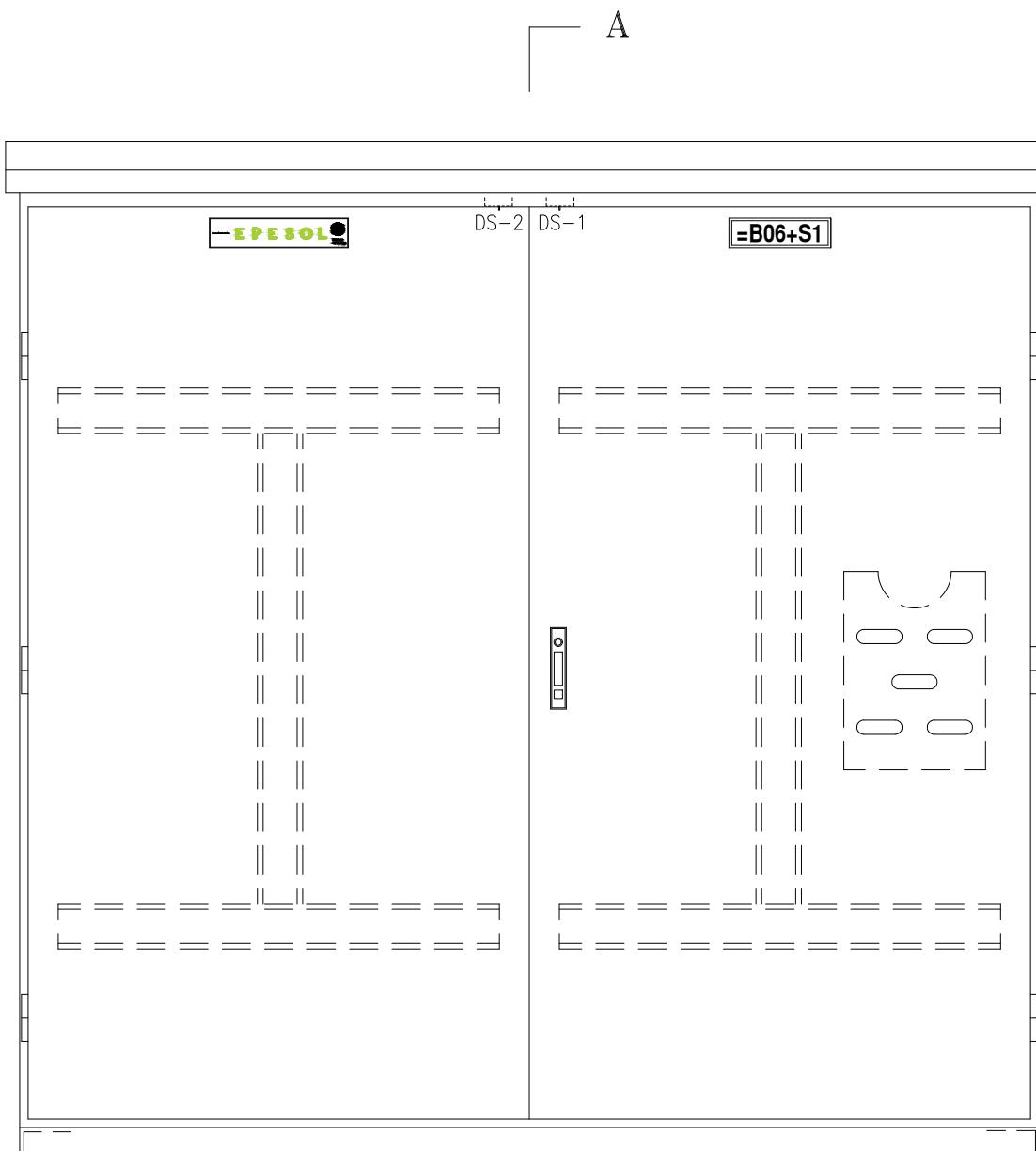


LAYOUT DIAGRAM OF 500kV LOCAL CONTROL CUBICLE TYPE =B06+S1

APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:	COVER SHEET	DWG#	SHT:
NAH <i>[Signature]</i>	MSS <i>[Signature]</i>	MUR <i>[Signature]</i>	EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPESOL Pvt Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	EPE/ENU-18/B61580	01 OF 04

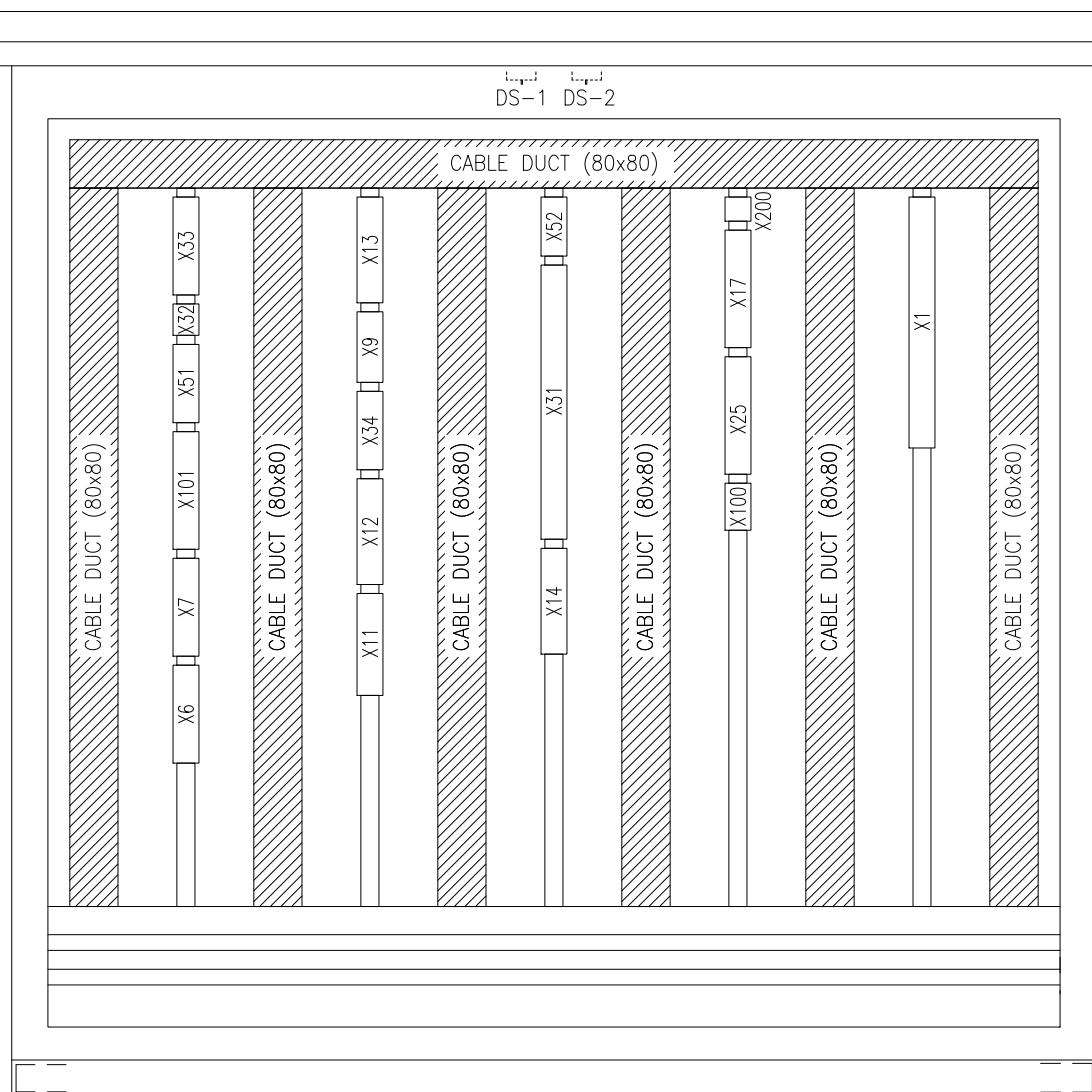


B

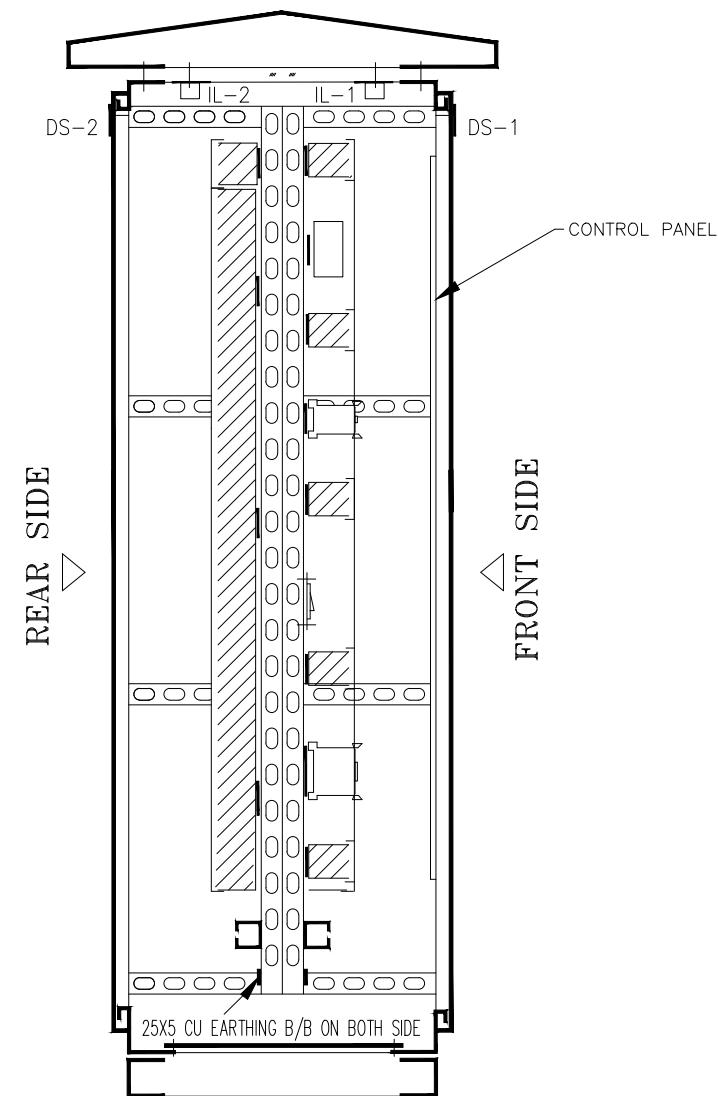
NOTES

1. 1800x510x1800 mm
2. EARTHING STRAP 16mm²
3. COLOR: RAL7032
4. PROTECTION CLASS: IP54

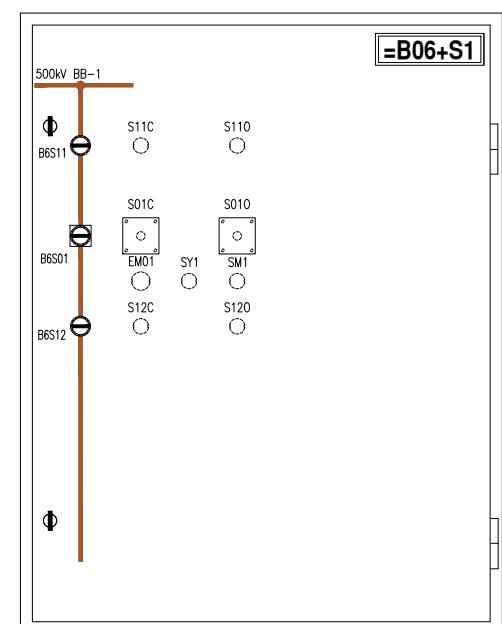
APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:		DWG#	SHT:
NAH	MSS	MUR	EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	LAYOUT DIAGRAM	500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPE/ENU-18/B61580	02 OF 04

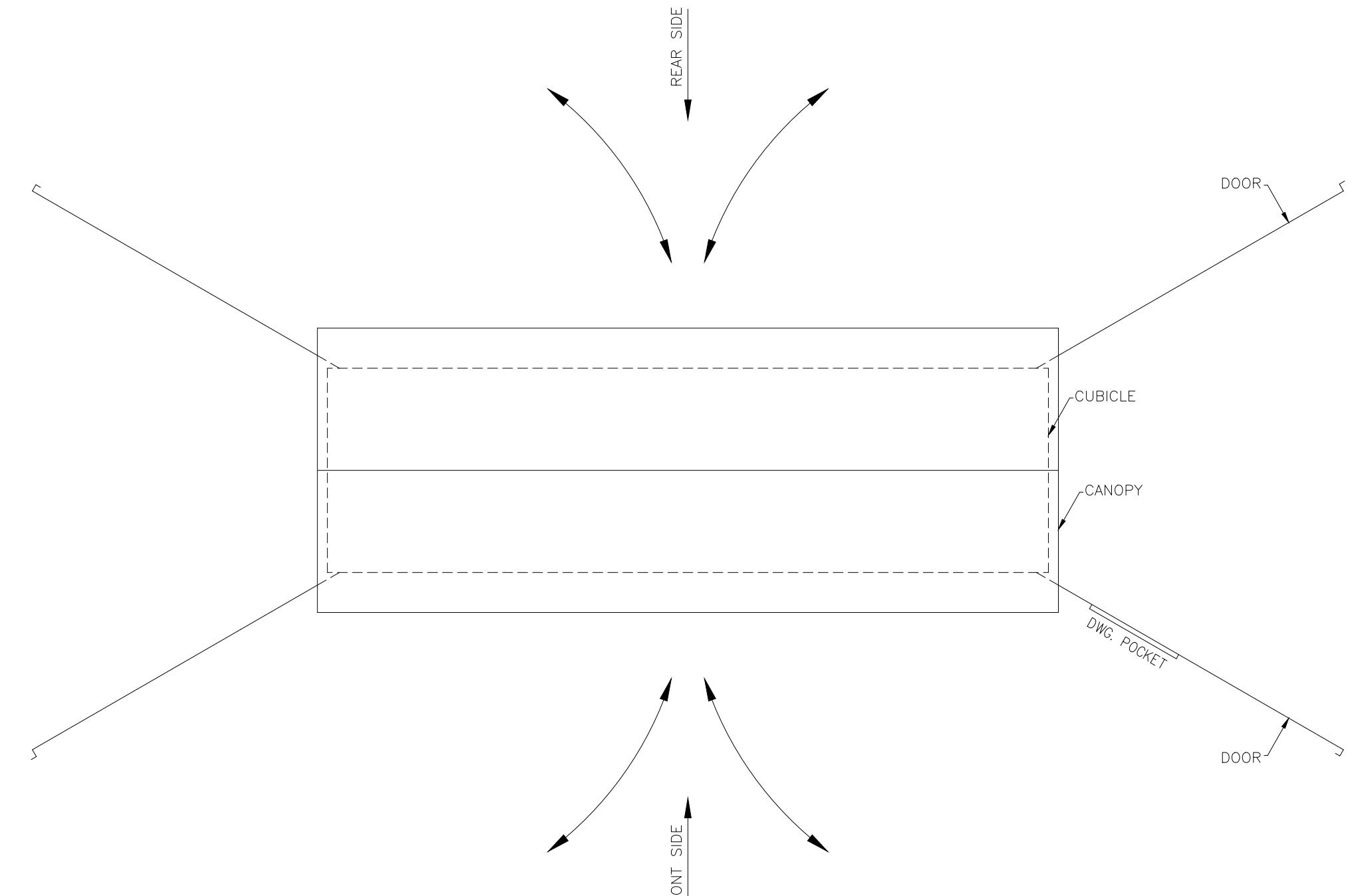


REAR VIEW WITHOUT DOOR



SECTION AB

CONTROL PANEL
FRONT VIEW



TOP VIEW
DOOR OPENING DETAIL

APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:		DWG#	SHT:
NAH	MSS	MUR	EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	LAYOUT DIAGRAM 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPE SOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	EPE/ENU-18/B61580	04 OF 04

LIST OF APPARATUS OF 500kV LOCAL CONTROL CUBICLE TYPE =B06+S1

APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:	COVER SHEET	DWG#	SHT:
NAH	MSS	MUR	EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	EPE/ENU-18/B61581	01 OF 04

1	2	3	4	5	6	7	8				
SR.	ITEM DESIGNATION		DESCRIPTION		QTY	TYPE	MAKE	COUNTRY OF ORIGIN	ORDERING INFORMATION	SHEET NO	
A	1	F500, F502		AC MCB, DOUBLE POLE, 6A, 240 VAC, WITH 1 C/O CONTACT		2	G60	GE	HUNGARY/POLAND	G62C06 + CAH(1)	A
	2	F510, F511, F512,		AC MCB, DOUBLE POLE, 10A, 240 VAC, WITH 1 C/O CONTACT		4	G60	GE	HUNGARY/POLAND	G62C10 + CAH(1)	
		F513									
B	3	F520		AC MCB, DOUBLE POLE, 16A, 240 VAC, WITH 1 C/O CONTACT		1	G60	GE	HUNGARY/POLAND	G62C16 + CAH(1)	B
	4	F501		ELCB, DOUBLE POLE, 16A, 30mA, 240 VAC, WITH 1 C/O CONTACT		1	DM100	GE	HUNGARY/POLAND	DM100C16/030 + CAH(1)	
	5	F101, F102, F103, F201		DC MCB, DOUBLE POLE, 10A, 220 VDC, WITH 1 C/O CONTACT		6	EP100	GE	HUNGARY/POLAND	EP102UCC10 + CAH(1)	B
C		F202, F301, F302									
	6	KR, KS, KL, KT, KS,		AUXILIARY RELAY, 220VDC, WITH 4 C/O CONTACTS		40	PRC	GE	HUNGARY/POLAND	PRC4M40DCML	C
		KDC1 TO KDC4, K2A									
D		K1 TO K6, K9 TO K32									D
	7										
		KAC, K33, K34, K35		AUXILIARY RELAY, 240 VAC, WITH 4 C/O CONTACTS		4	PRC	GE	HUNGARY/POLAND	PRC4M40ANL	C
E	8	SY1		TWO POSITION SELECTOR SWITCH KEY TYPE FOR LOCAL-REMOTE MODE, WITH 4NO+4NC CONTACT, COLOR BLACK		1	YS-AK	YONGSUNG	SOUTH KOREA	YS-AK-2-2-44-D	E
	9	S01C, S010		TWO POSITION AUTOMATIC SPRING RETURN SWITCH FOR CIRCUIT BREAKER CONTROL 220 VDC, WITH 2NO CONTACT, COLOR BLACK		2	YS-DNC	YONGSUNG	SOUTH KOREA	YS-DNC-22-3103-6-	
F	10	S110, S120,		PUSH BUTTON, WITH 4NO CONTACT, COLOR GREEN		2	AS-AP1	YONGSUNG	SOUTH KOREA	YS-AP1-2-40-G-D-W	F
	11	S11C, S12C,		PUSH BUTTON, WITH 4NO CONTACT, COLOR RED		2	AS-AP1	YONGSUNG	SOUTH KOREA	YS-AP1-2-40-R-D-W	
G	12	EM01		EMERGENCY PUSH BUTTON, WITH 8NO CONTACT, COLOR RED		1	AS-AP1	YONGSUNG	SOUTH KOREA	YS-AP1-3-80-R-D-W	G
	13	TLS		TELEPHONE SOCKET		1		LOCAL			G
H	14	SM1		TWO POSITION SELECTOR SWITCH KEY TYPE FOR LOCAL-REMOTE MODE, WITH 4NO+4NC CONTACT, COLOR BLACK		1	YS-AK	YONGSUNG	SOUTH KOREA	YS-AK-2-2-44-D	H
	15	KCT		TIMER RELAY , 220VDC, 5SEC, 2 C/O CONTACTS		1	AT8N	AUTONIC	SOUTH KOREA	AT8N-220VDC-5S	
I	16	MCT1, MCT2, MC3		MATCHING CT FOR AVR, 1:1 RATIO, BURDEN 15VA, CLASS 0.2		3	-	-	-	-	I
	17	IL1, IL2		CUBICLE LIGHTING, 5W, 240VAC		2	YS-Y8	YONGSUNG	SOUTH KOREA	YS-T8-30-5W	I
APPROVED	CHECKED	DRAWN	PROJECT:	EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE:	LIST OF APPARATUS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPE SOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61581	SHT: 02 OF 04		
NAH Q.	MSS M.	MUR B.						DATE: 07.03.2019	AS BUILT	REV: 0	

1	2	3	4	5	6	7	8	
SR.	ITEM DESIGNATION	DESCRIPTION	QTY	TYPE	MAKE	COUNTRY OF ORIGIN	ORDERING INFORMATION	SHEET NO
A	18	DS1, DS2	DOOR SWITCH WITH COVER	2	YSP33+YSMS	YONGSUNG	SOUTH KOREA	YSP3315GWB+YSMS-C
A	19	B6S01	SEMAPHORE INDICATOR FOR CIRCUIT BREAKER POSITION INDICATION, 220 VDC, SQUARE TYPE	1	SPS-30S	FUJI	JAPAN	SPS-30S-DC22
	20	B6S10, B6S11	SEMAPHORE INDICATOR FOR ISOLATOR POSITION INDICATION, 220 VDC, ROUND TYPE	2	SPR-30S	FUJI	JAPAN	SPR-30S-DC22
B	21	TH+HS	THERMOSTAT AND HUMIDSTAT	1	ELH220	ELAB	PAKISTAN	ELH220
B	22	SH	SPACE HEATER	1	ELH220	ELAB	PAKISTAN	ELH220
	23	TPS	240 VAC, 16A, THREE PIN SOCKET OUTLET	1		LEAR	CHINA	
	24	X1	TERMINAL BLOCKS FOR CT CIRCUITS WITH SHORTING & DISCONNECTING FACILITY	49	SCB-6	CABUR	ITLAY	
c	25	X101	TERMINAL BLOCKS FOR DC SUPPLY CIRCUITS	30	CBD-4	CABUR	ITLAY	
c	26	X31	TERMINAL BLOCKS FOR CONTROL CIRCUITS	70	CBD-4	CABUR	ITLAY	
D	27	X51	TERMINAL BLOCKS FOR CB CLOSING CIRCUITS-1	20	CBD-4	CABUR	ITLAY	
D	28	X52	TERMINAL BLOCKS FOR CB CLOSING CIRCUITS-2	15	CBD-4	CABUR	ITLAY	
D	29	X6	TERMINAL BLOCKS FOR TRIP CIRCUIT-1	25	CBD-4	CABUR	ITLAY	
D	30	X7	TERMINAL BLOCKS FOR TRIP CIRCUIT-2	25	CBD-4	CABUR	ITLAY	
	31	X32	TERMINAL BLOCKS FOR MOTOR DRIVE CIRCUITS	8	CBD-4	CABUR	ITLAY	
	32	X33	TERMINAL BLOCKS FOR POSITION INDICATION	25	CBD-4	CABUR	ITLAY	
E	33	X11	TERMINAL BLOCKS FOR DISCONNECTOR CONTROL	26	CBD-4	CABUR	ITLAY	
E	34	X12	TERMINAL BLOCKS FOR DISCONNECTOR CONTROL	26	CBD-4	CABUR	ITLAY	
F	35	X34	TERMINAL BLOCKS FOR CB ALARMS	20	CBD-4	CABUR	ITLAY	
	36	X9	TERMINAL BLOCKS FOR ANNUNCIATION	27	CBD-4	CABUR	ITLAY	
	37	X13	TERMINAL BLOCKS FOR EVENT RECORDER	26	CBD-4	CABUR	ITLAY	
F	38	X14	TERMINAL BLOCKS FOR SCADA	26	CBD-4	CABUR	ITLAY	
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: LIST OF APPARATUS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61581	SHT: 03 OF 04	
NAH Q.	MSS M. Sohail	MUR Iy				DATE: 07.03.2019	AS BUILT	REV: 0

1	2	3	4	5	6	7	8	
SR.	ITEM DESIGNATION	DESCRIPTION	QTY	TYPE	MAKE	COUNTRY OF ORIGIN	ORDERING INFORMATION	SHEET NO
A 39	X25	TERMINAL BLOCKS FOR SYNCH. SELECTION	30	CBD-4	CABUR	ITLAY		A
A 40	X100	TERMINAL BLOCKS FOR AC DISTRIBUTION CIRCUITS	12	CBD-4	CABUR	ITLAY		A
A 41	X17	TERMINAL BLOCKS FOR COMPARTMENT HEATING	30	CBD-4	CABUR	ITLAY		A
B 42	X200	TERMINAL BLOCKS FOR TELEPHONE	6	CBD-4	CABUR	ITLAY		B
C								C
D								D
E								E
F								F
APPROVED	CHECKED	DRAWN	PROJECT:  EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: LIST OF APPARATUS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61581	SHT: 04 OF 04	
NAH Q.I.	MSS M.Sohail	MUR Ilyas				DATE: 07.03.2019	AS BUILT	REV: 0

SCHEMATIC DIAGRAM OF 500kV LOCAL CONTROL CUBICLE TYPE =B06+S1

APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE:	COVER SHEET 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 01 OF 35
NAH Q.I.	MSS M.Sohail	MUR Ilyas		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan		DATE: 07.03.2019	AS BUILT

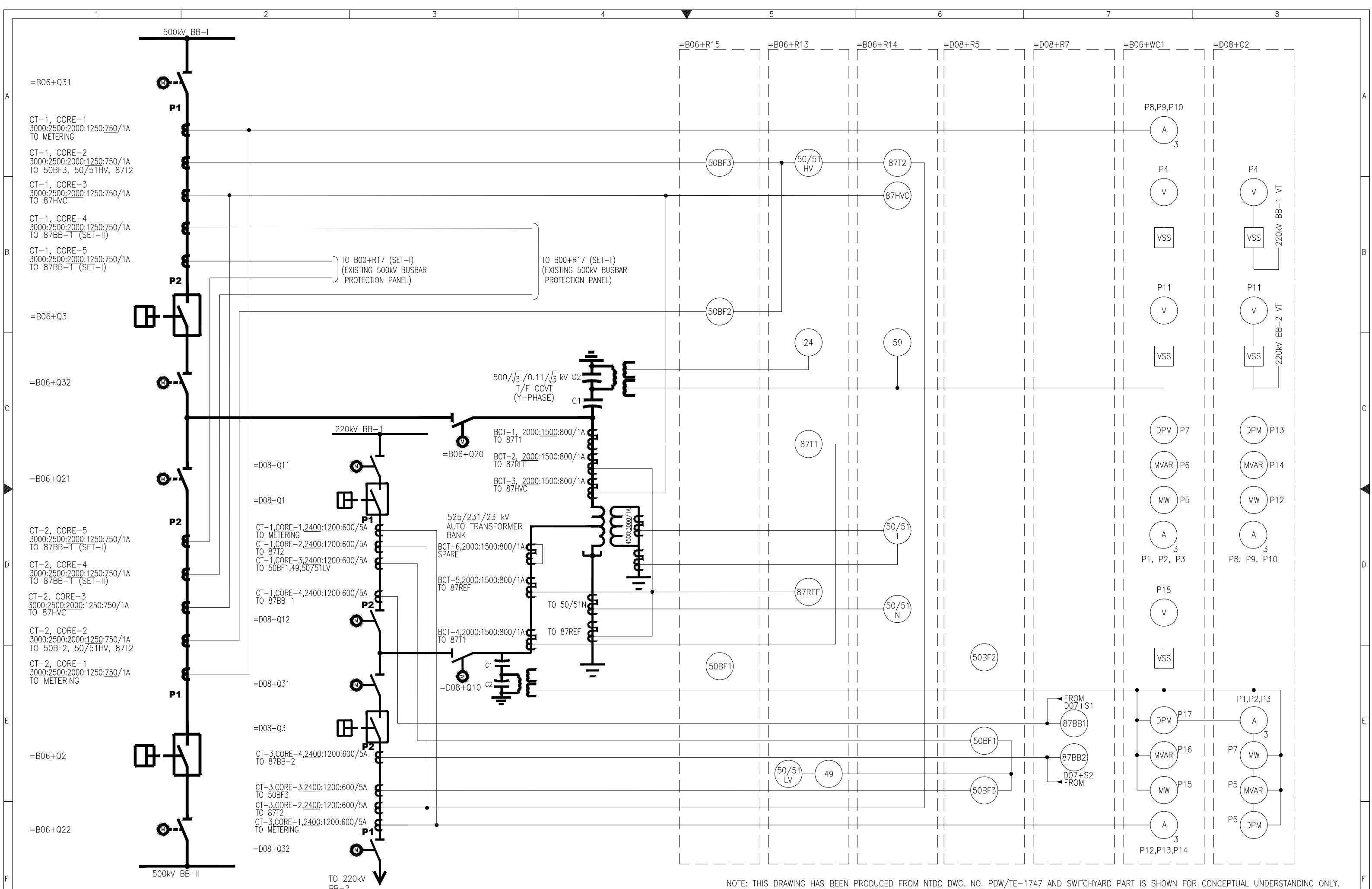
DESCRIPTION	SHEET NO	DESCRIPTION	SHEET NO
COVER SHEET	01	POSITION INDICATION FOR CONTROL PANEL	21
LIST OF CONTENTS	02	CB ALARMS	22
LIST OF SYMBOLS AND DESIGNATION	03	AC SUPPLY FAIL INDICATION CIRCUIT	23
SINGLE LINE DIAGRAM	04	VT MCB TRIP	24
CT CIRCUIT	05	SIGNALING FOR ANNUNCIATION	25
CT CIRCUIT	06	SIGNALING FOR ANNUNCIATION	26
CT CIRCUIT	07	SIGNALING FOR EVENT RECORDER	27
CT CIRCUIT	08	SIGNALING FOR EVENT RECORDER	28
CT CIRCUIT	09	SIGNALING FOR SCADA	29
DC SUPPLY DISTRIBUTION	10	SIGNALING FOR SCADA	30
CB AND DISCONNECTOR CONTROL	11	SYNC. SELECTION	31
=B06+Q1 CLOSING CIRCUIT-I	12	AC DISTRIBUTION CIRCUIT	32
=B06+Q1 CLOSING CIRCUIT-II	13	AC DISTRIBUTION CIRCUIT	33
=B06+Q1 TRIP CIRCUIT-I	14	DC MCB TRIP CIRCUIT	34
=B06+Q1 TRIP CIRCUIT-II	15	TELEPHONE SOCKET	35
=B06+Q1 MOTOR DRIVE CIRCUIT	16		
POSITION INDICATION CIRCUIT	17		
=B06+Q11 DISCONNECTOR CONTROL	18		
=B06+Q12 DISCONNECTOR CONTROL	19		
CB/DS STATUS	20		

APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: LIST OF CONTENTS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 02 OF 35
NAH Q.	MSS M. Sohail	MUR Ilyas		E P E S O L P v t . L t d. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

A
B
C
D
E
F
A
B
C
D
E
F

LIST OF SYMBOLS AND DESIGNATIONS

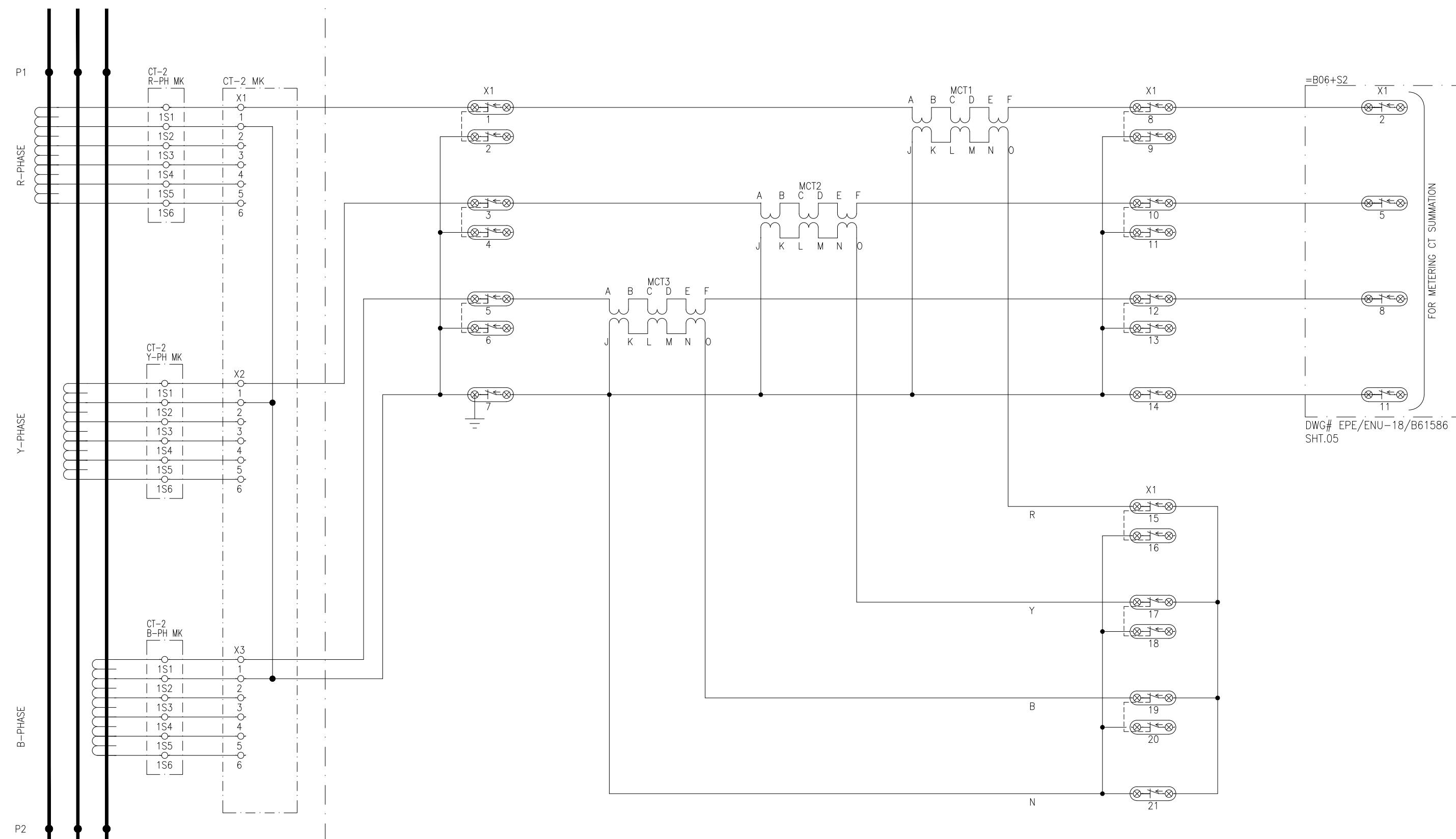
	MOTORIZED HV DISCONNECTOR	74-DC	DC CIRCUIT SUPERVISION RELAY
	HV CIRCUIT BREAKER	X	TERMINAL BLOCKS
	525/231/23 kV AUTO TRANSFORMER	K	AUXILIARY RELAY/CONTACTOR
	CAPACITOR VOLTAGE TRANSFORMER		
	RELAY PANEL TERMINAL BLOCK		
	CONTROL PANEL TERMINAL BLOCK		
	EARTH CONNECTION		
	NORMALLY CLOSED CONTACT		
	NORMALLY OPEN CONTACT		
	CHANGE OVER CONTACT		
	MINIATURE CIRCUIT BREAKER		
	INDICATING BULB/LED/CUBICLE LIGHT		
	220V SOCKET		
	SPACE HEATER		
	COIL		
	EQUIPMENT WITHIN PANEL		
	INDEPENDENT PANEL		
	INDEPENDENT PANEL		



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SINGLE LINE DIAGRAM 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 04 OF 35
NAH Q.	MSS M. Sohail	MUR Iy	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT	REV: 0

SWITCH YARD.

=B06, CT-1, CORE-1
3000:2500:2000:1250:750/1A



NOTE:
CT SELECTED TAP TO BE CONFIRMED AT SITE.



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M
/M(P)/AM-VI/E0/9417-29 DATED 14.11.2018
FOR THE PROCUREMENT OF 220KV &
500KV RELAY& CONTROL PANELS

TITLE:

CT CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



E P E S O L Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582 SHT: 05 OF 35

DATE: 07.03.2019 AS BUILT REV: 0

APPROVED	CHECKED	DRAWN
NAH	MSS	MUR



1

2

3

4

5

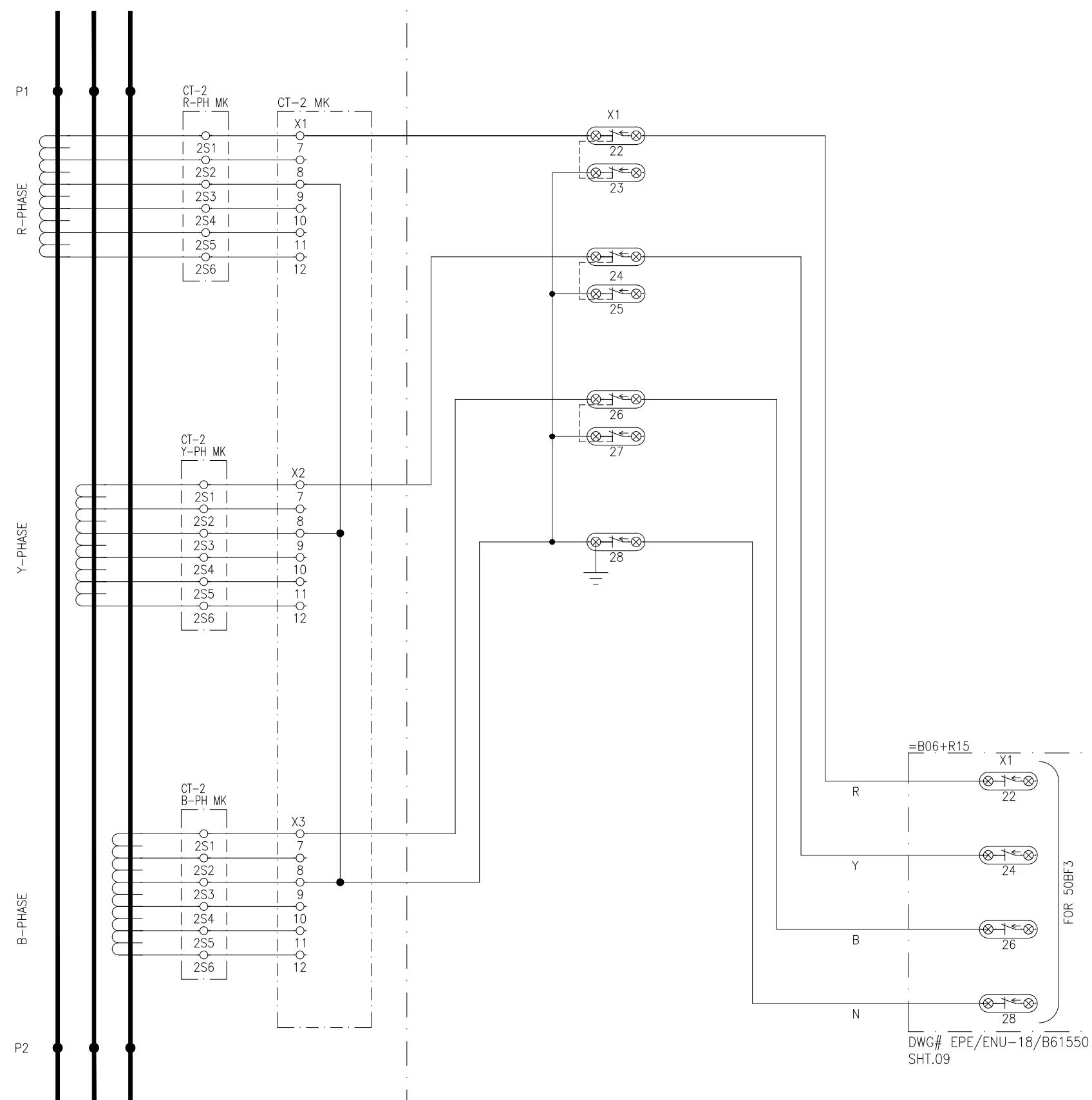
6

7

8

SWITCH YARD.

=B06, CT-1, CORE-2
3000:2500:2000:1250:750/1A



DWG# EPE/ENU-18/B61550
SHT.09



E P E S O L Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY & CONTROL PANELS

TITLE:

CT CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1

DWG# EPE/ENU-18/B61582

DATE: 07.03.2019

AS BUILT

REV: 0

APPROVED	CHECKED	DRAWN
NAH	MSS	MUR



Ministry of Education
Government of the
Islamabad Capital Territory

1

2

3

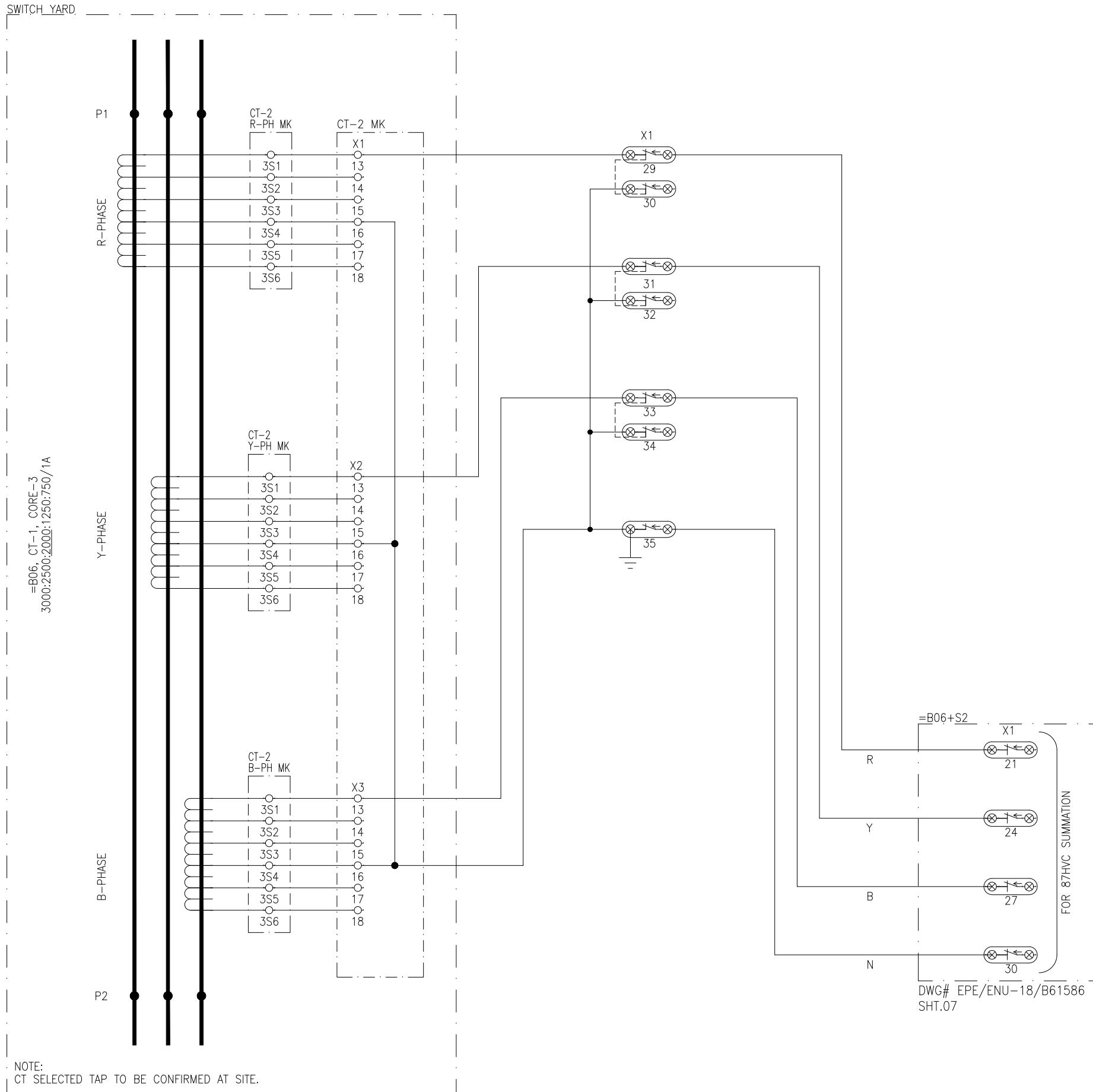
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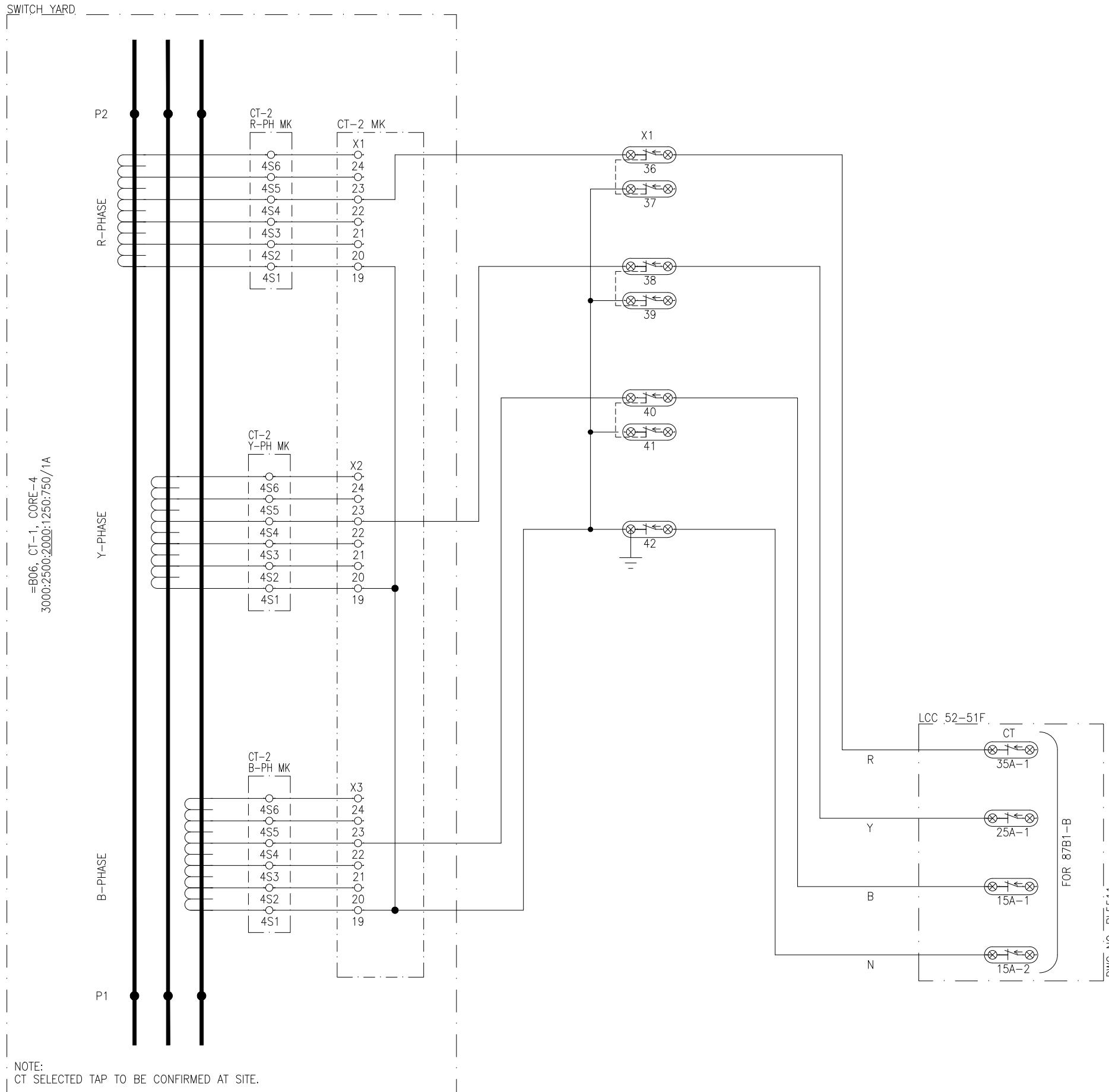
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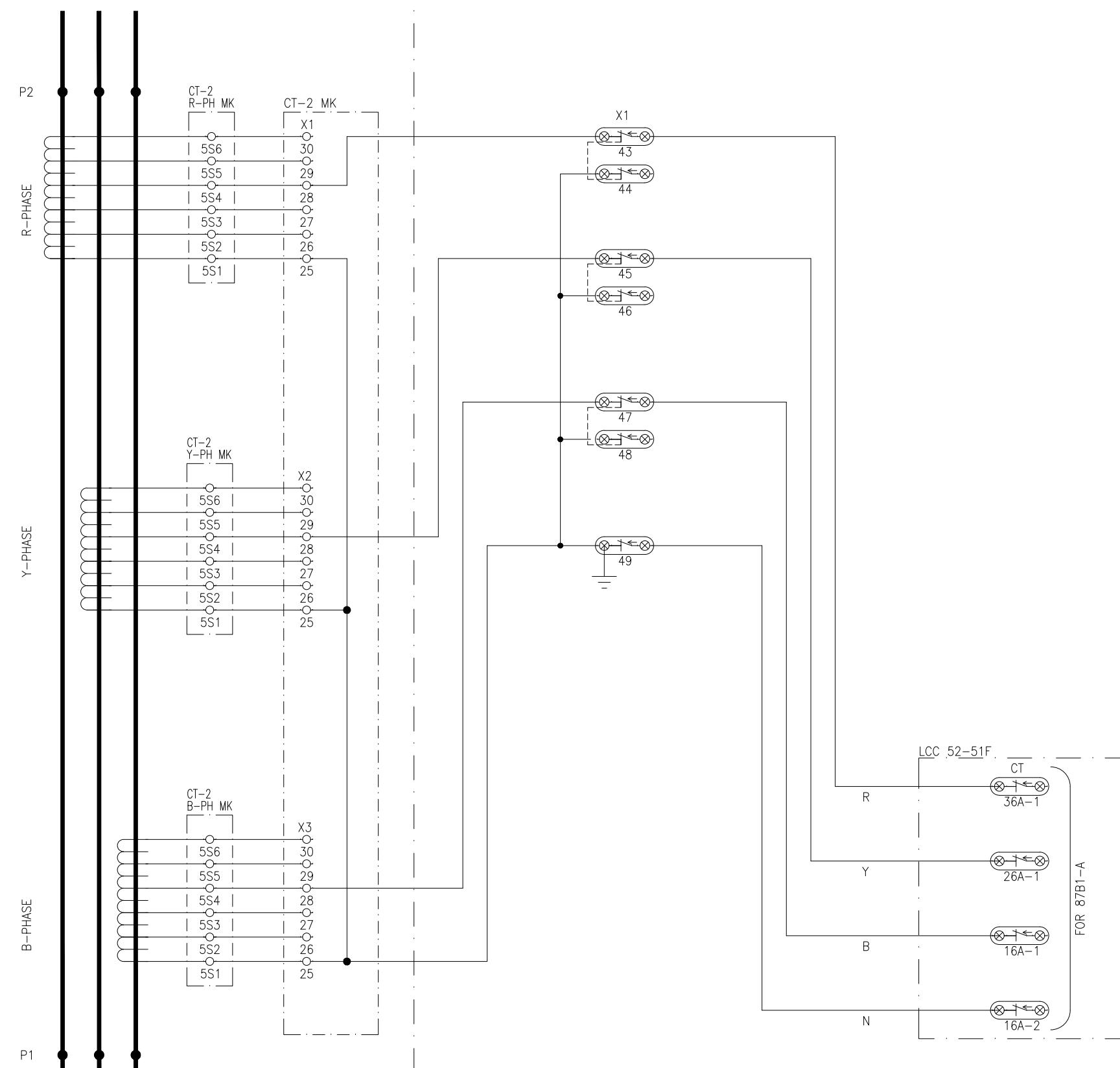
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NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT REV: 0



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: CT CIRCUIT 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 08 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

SWITCH YARD.

=B06, CT-1, CORE-5
3000:2500:2000:1250:750/1A



NOTE:
CT SELECTED TAP TO BE CONFIRMED AT SITE.



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

TITLE:

CT CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



E P E S O L Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582

SHT: 09 OF 35

APPROVED

CHECKED

DRAWN

MSS

MUR

NAH

DATE: 07.03.2019

AS BUILT

REV: 0

=B06+Q1
CB CLOSING &
TRIP CCT=1

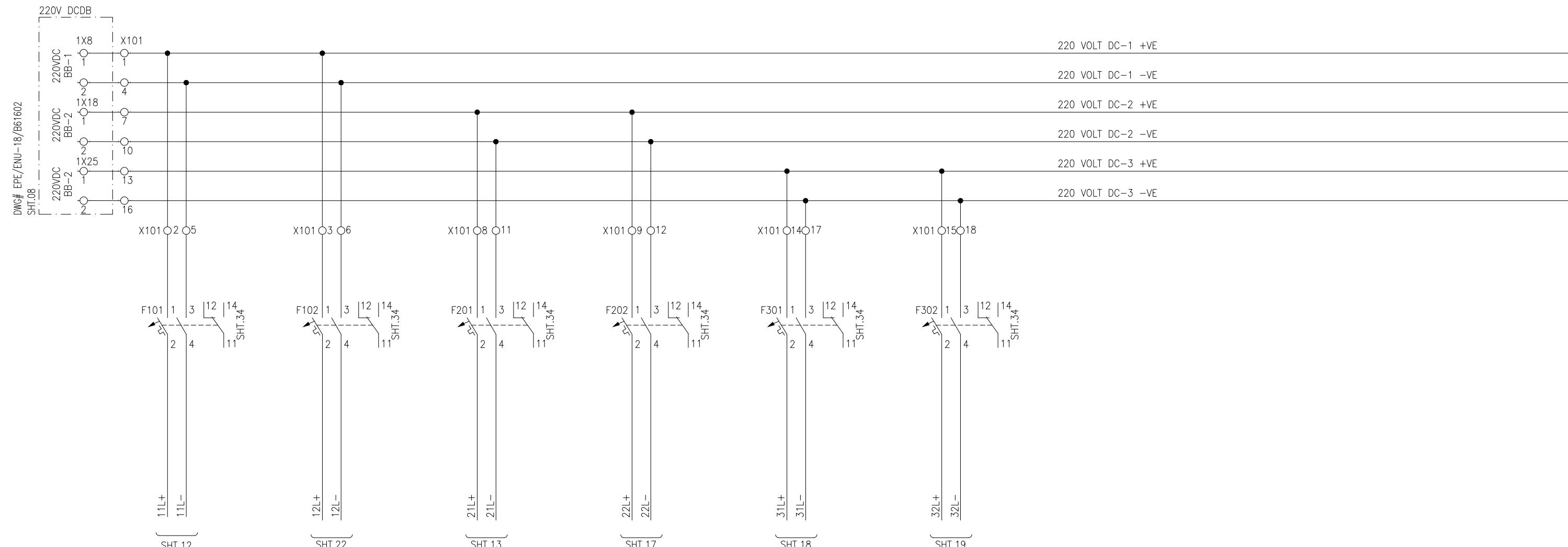
ALARM
SIGNAL INC

=B06+
CB CLOSING
TRIP CC

POSITION
INDICATION

**DISCONNECTOR
=B06+Q11
MOTOR SUPPLY**

**DISCONNECTOR
=B06+Q12
MOTOR SUPPLY**



LEGEND

LEGEND			
DES:	DESCRIPTION	TYPE	MAKE
FXXX	TWO POLE, 10Amp DC MCB's	EP-100	GE

APPROVED	CHECKED	DRAWN
NALLA S	MSS-284	MUR



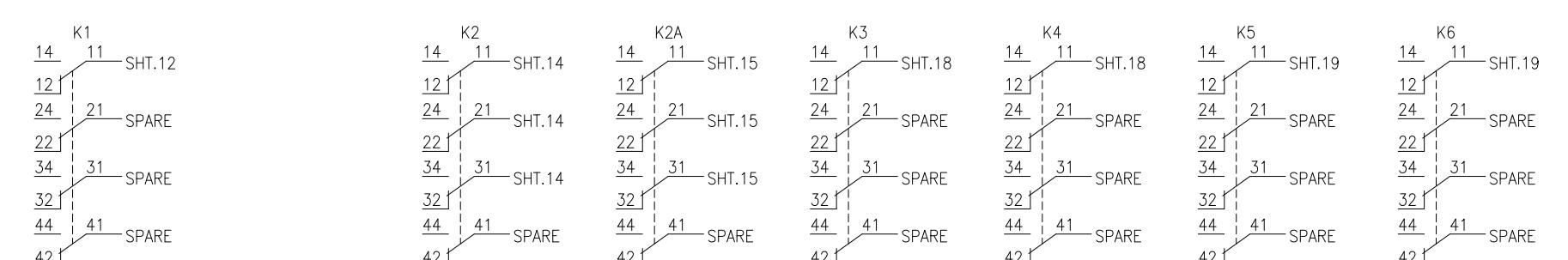
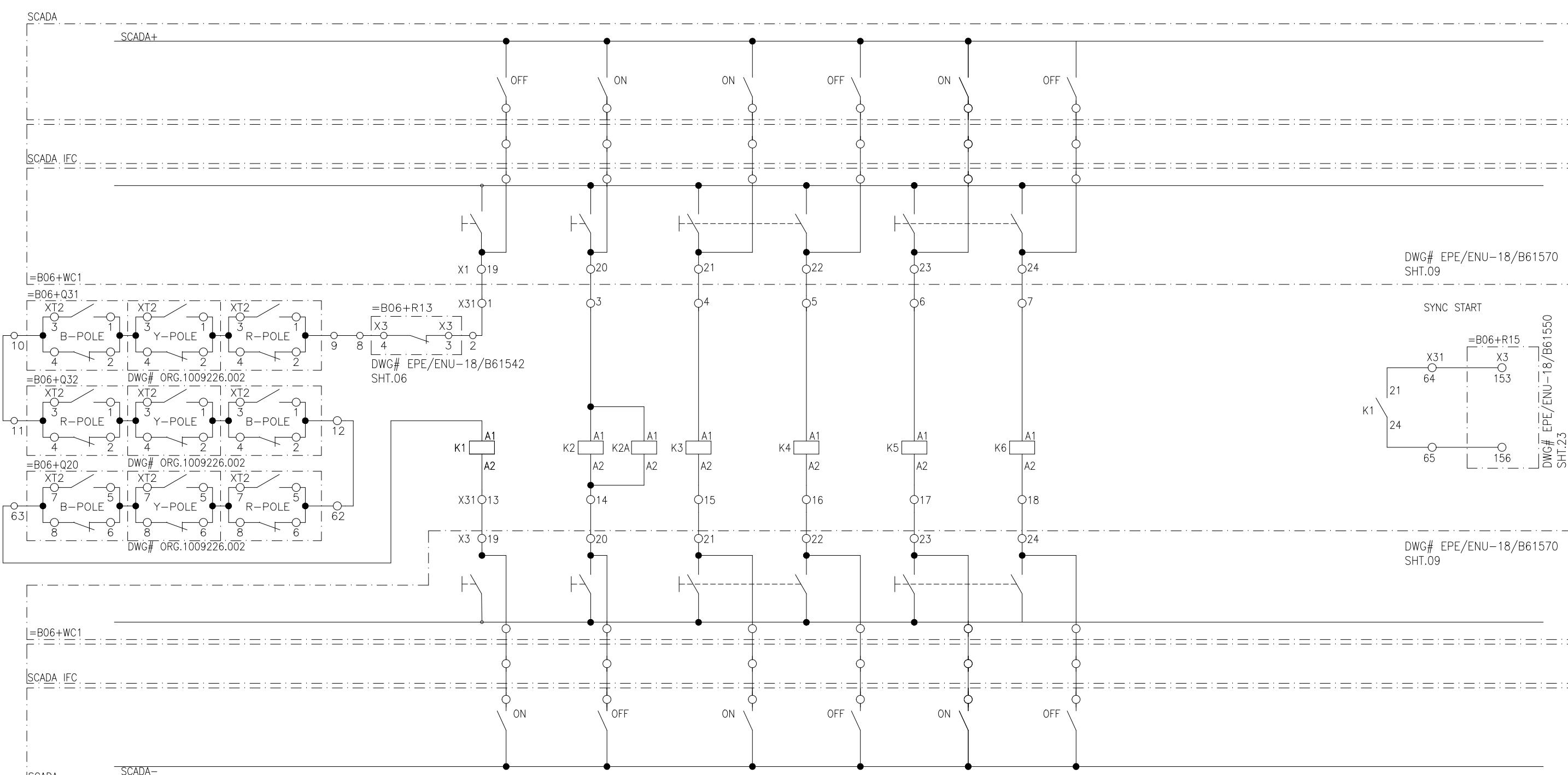
PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M
/M(P)/AM-VI/E0/9417-29 DATED 14.11.2011
FOR THE PROCUREMENT OF 220KV &

TITLE:
DC SUPPLY DISTRIBUTION



E P E S O L Pvt. Ltd.

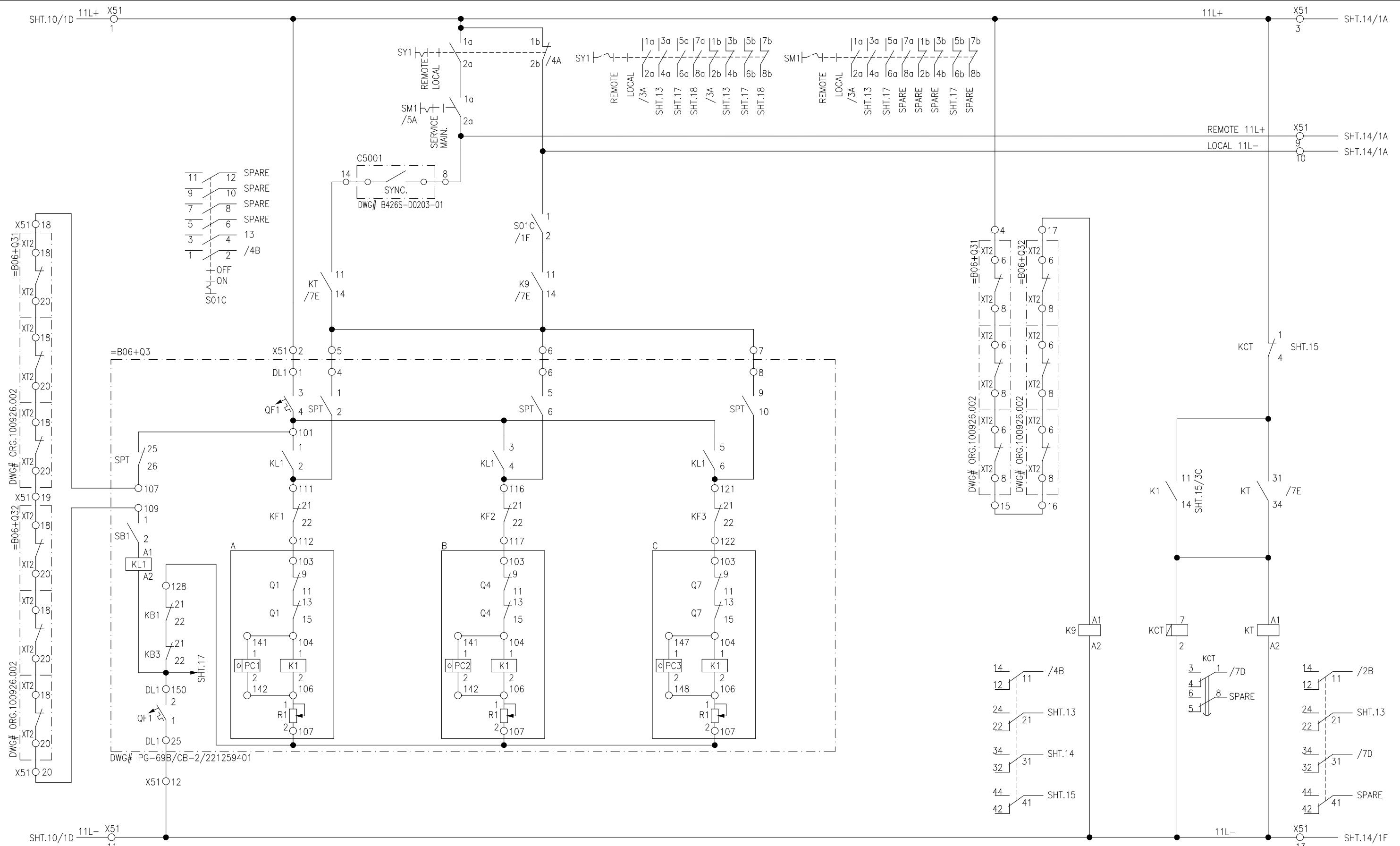
DWG# EPE/ENU-18/B61582 SHT: 10 OF 35
DATE: 07.03.2019 AS BUILT REV: 0

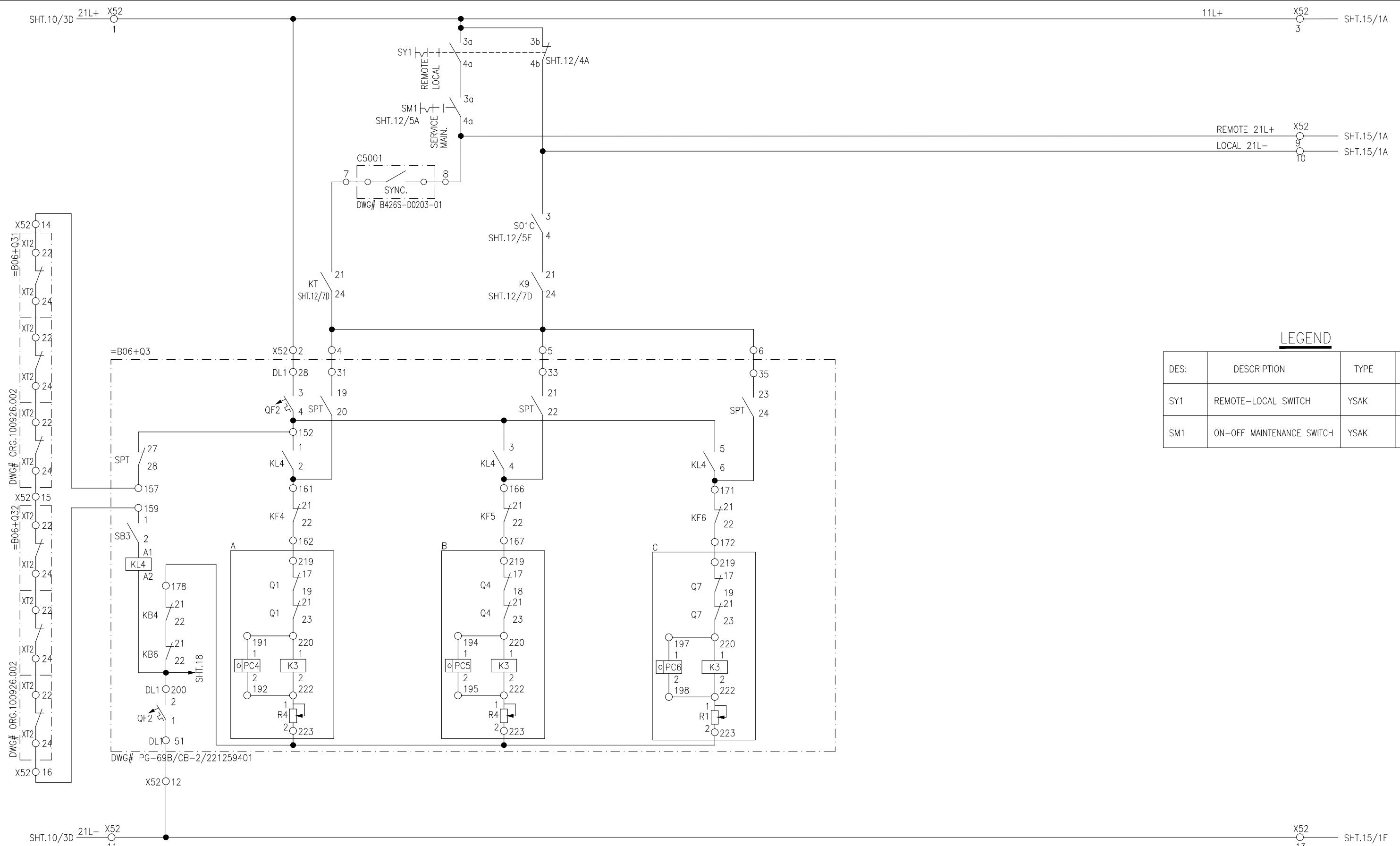


NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE

NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE.											
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: CB AND DISCONNECTOR CONTROL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 11 OF 35				
NAH 	MSS 	MUR 				DATE: 07.03.2019	AS BUILT	REV: 0			

500kV CB =B06+Q3 CLOSING CIRCUIT-1
REMOTE LOCAL



500kV CB =B06+Q3 CLOSING CIRCUIT-2
REMOTE LOCAL

APPROVED CHECKED DRAWN



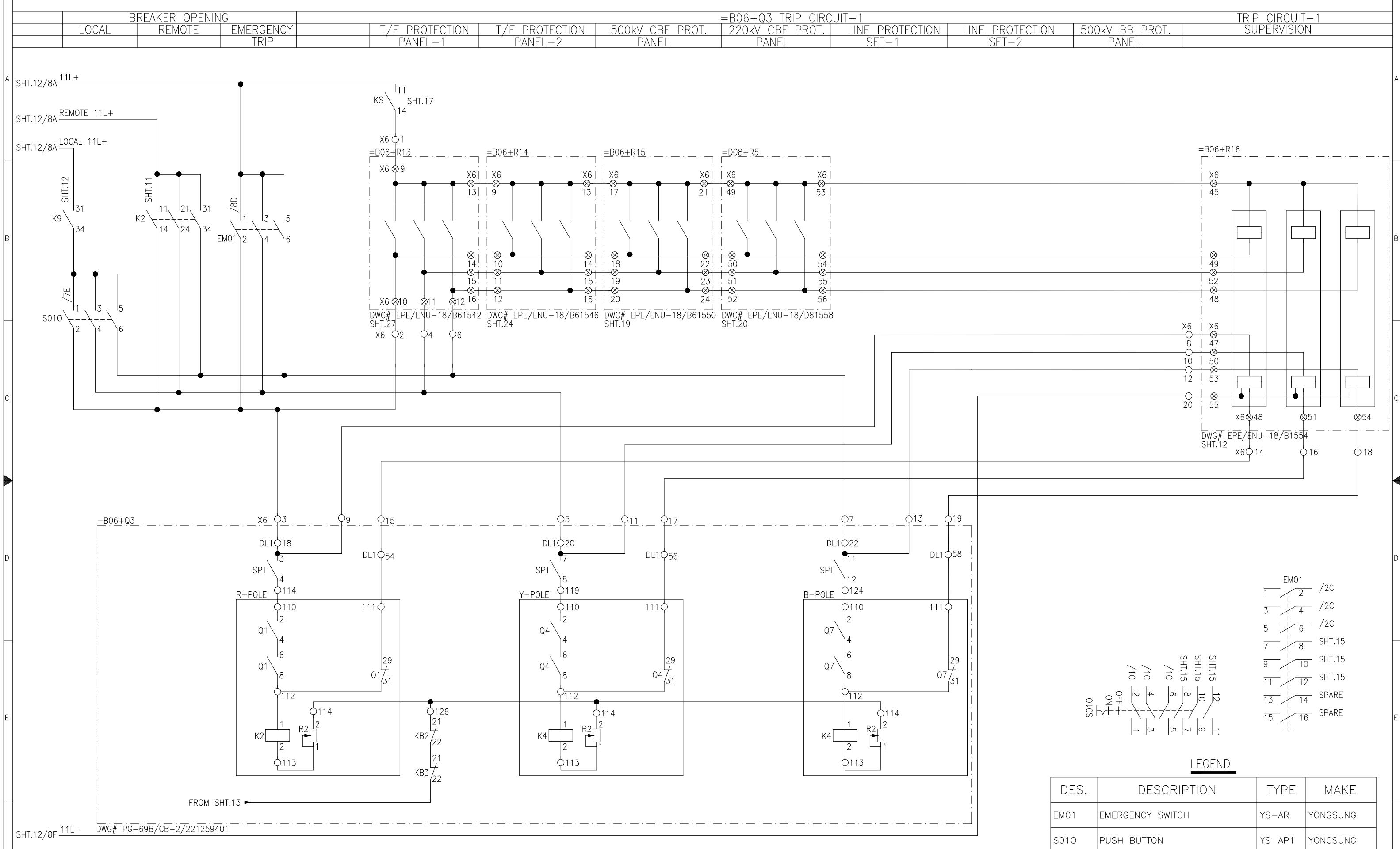
PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

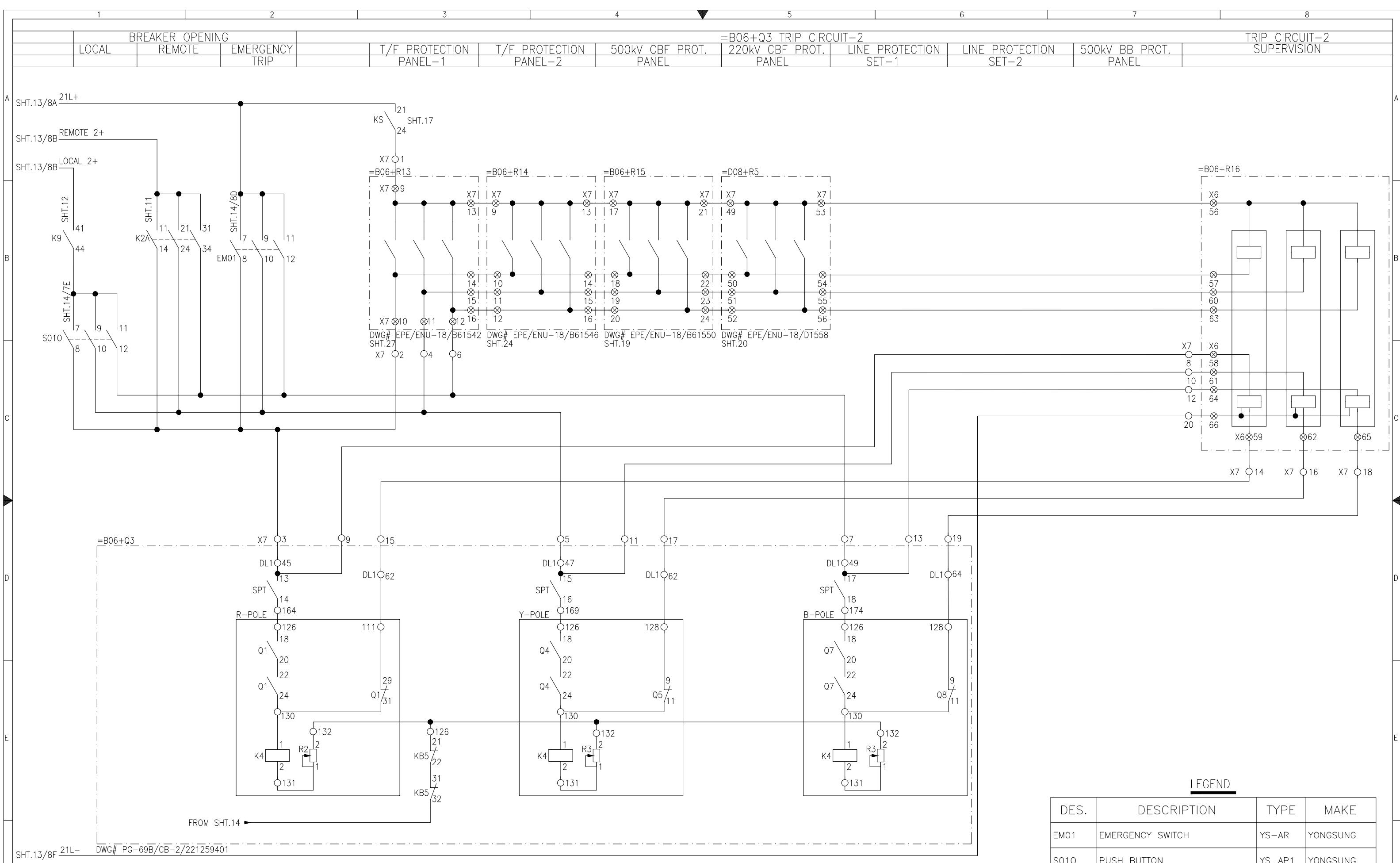
TITLE:
=B06+Q3 CLOSING CIRCUIT-II
500kV LOCAL CONTROL CUBICAL TYPE =B06+S1



E P E S O L Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582 SHT: 13 OF 35
DATE: 07.03.2019 AS BUILT REV: 0





LEGEND			
DES.	DESCRIPTION	TYPE	MAKE
M01	EMERGENCY SWITCH	YS-AR	YONGSUNG
O10	PUSH BUTTON	YS-AP1	YONGSUNG



EPE SOL Pvt. Ltd.

LEGEND

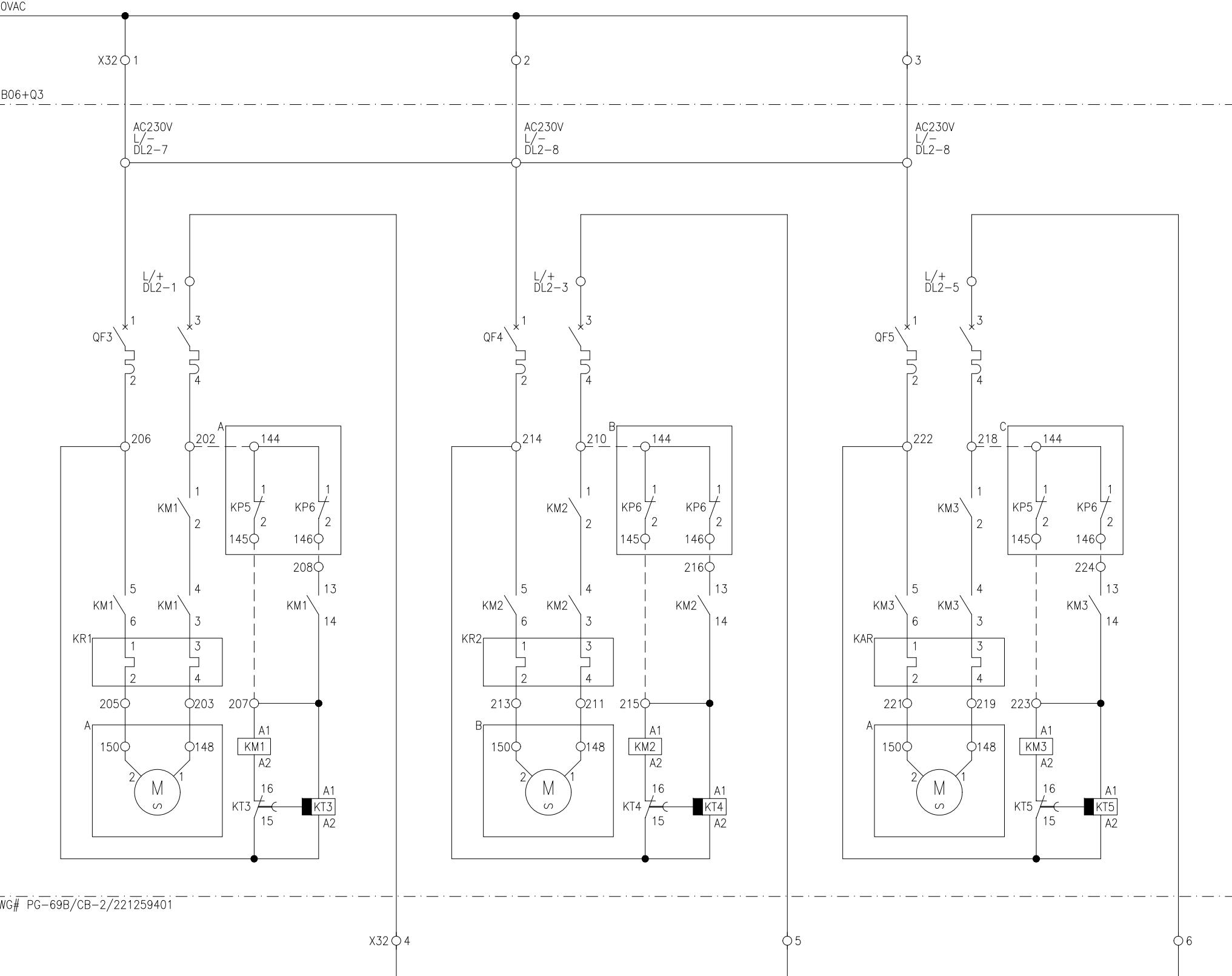
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: =B06+Q3 TRIP CIRCUIT-II 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 15 OF 35
NAH 	MSS 	MUR 				DATE: 07.03.2019	AS BUILT

R-POLE

CB MOTOR DRIVE CIRCUIT
Y-POLE

B-POLE

FROM SHT.32/2B PH 230VAC



DWG# PG-69B/CB-2/21259401

FROM SHT.32/2E N



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018
FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

TITLE:
=B06+Q3 MOTOR DRIVE CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



EPESOL Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582 SHT: 16 OF 35
DATE: 07.03.2019 AS BUILT REV: 0

APPROVED: NAH
CHECKED: MSS
DRAWN: MUR

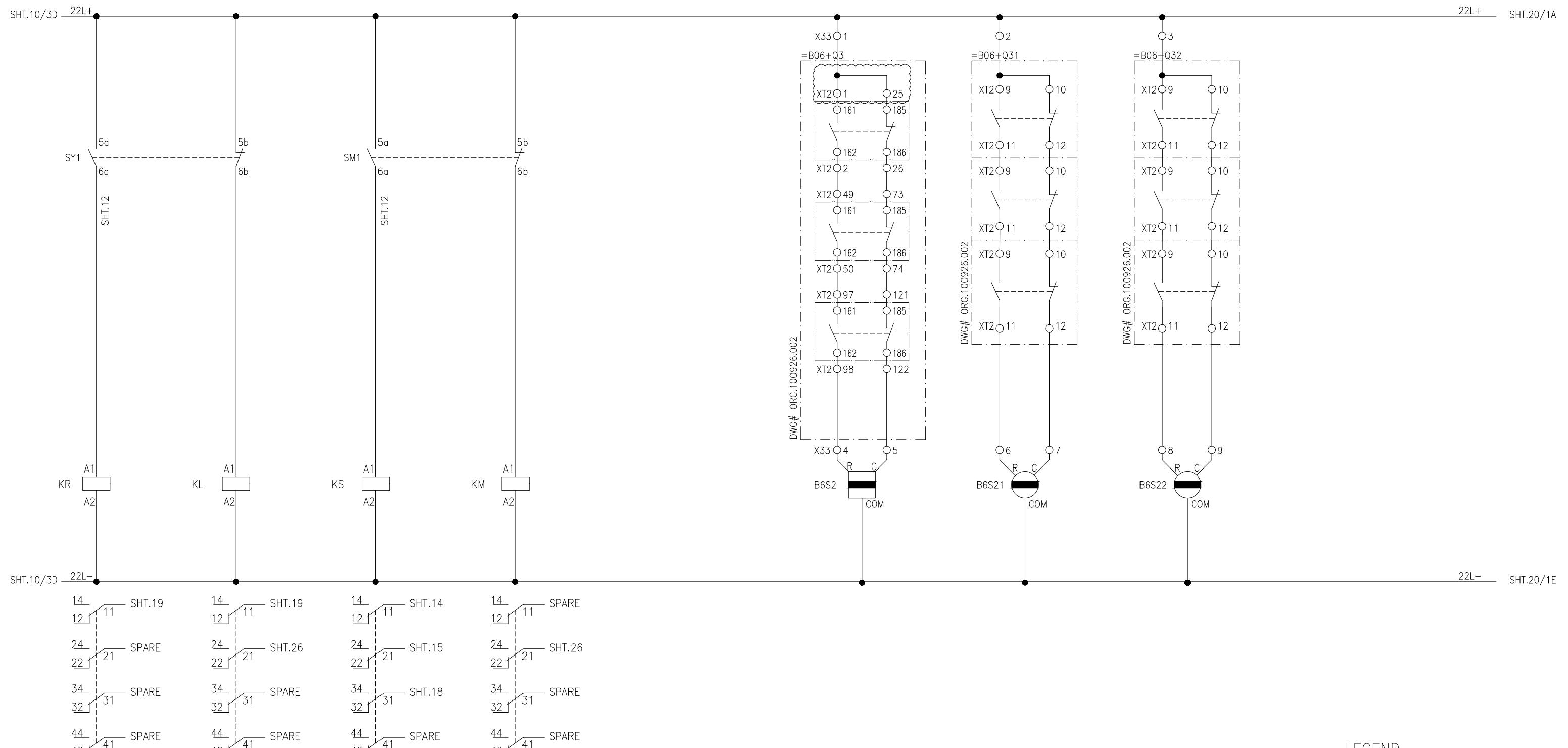
SELECTOR SWITCH

CONTACT MULTIPLICATION
FOR MAIN./SERVICE

CB
=B06+Q3

DS
=B06+Q3

DS
=B06+Q32

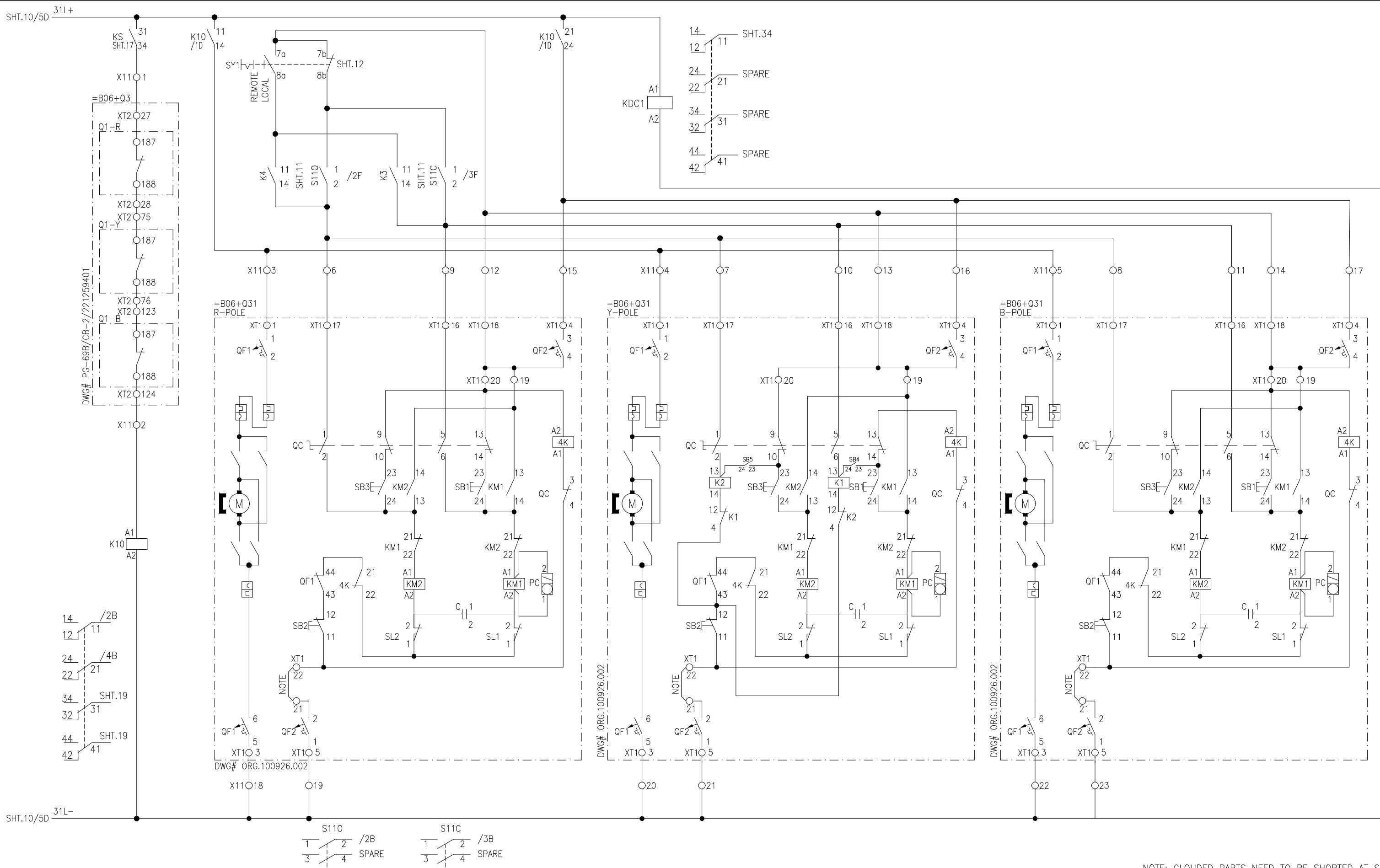


LEGEND

<u>LEGEND</u>			
DES:	DESCRIPTION	TYPE	MAKE
B6S11,B6S12,	SEMOPHORE	SPR-30R	FUJI
B6S01	SEMOPHORE	SPR-30S	FUJI

NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE.						
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: POSITION INDICATION CIRCUIT 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582
NAH	MSS	MUR			DATE: 07.03.2019	AS BUILT

DISCONNECTOR =B06+Q31
INTERLOCKING MOTOR SUPPLY OPENING CLOSING



APPROVED	CHECKED	DRAWN
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NAH [Signature] MSS [Signature] MUR [Signature]



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

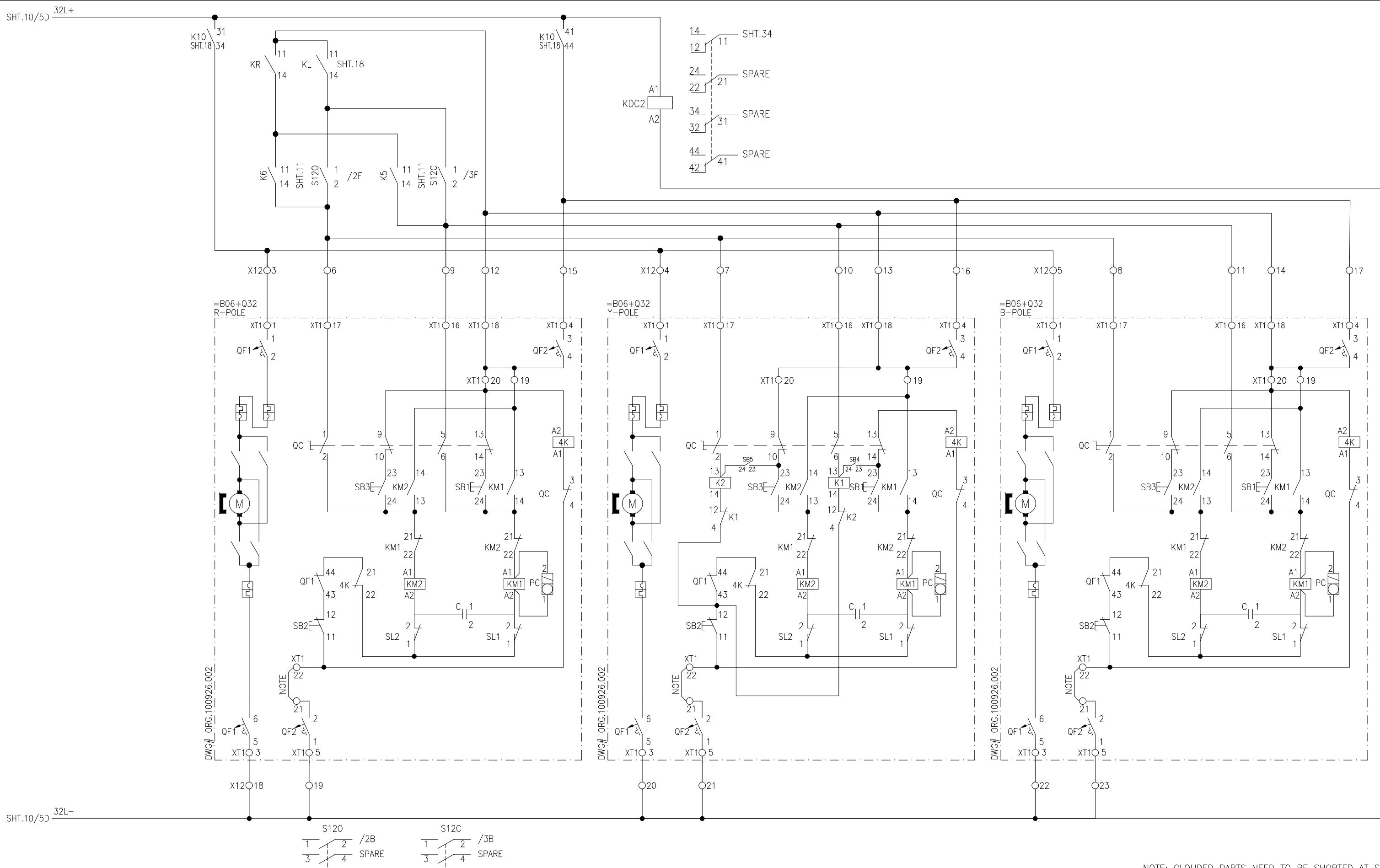
TITLE:
=B06+Q31 DISCONNECTOR CONTROL
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



EPESOL Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582 SHT: 18 OF 35
DATE: 07.03.2019 AS BUILT REV: 0

DISCONNECTOR =B06+Q32
INTERLOCKING MOTOR SUPPLY OPENING CLOSING



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: =B06+Q32 DISCONNECTOR CONTROL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 19 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]				DATE: 07.03.2019	AS BUILT

1 2 3 4 5 6 7 8

CB =B06+Q3 STATUS

OPEN

CLOSE

DS =B06+Q31 STATUS

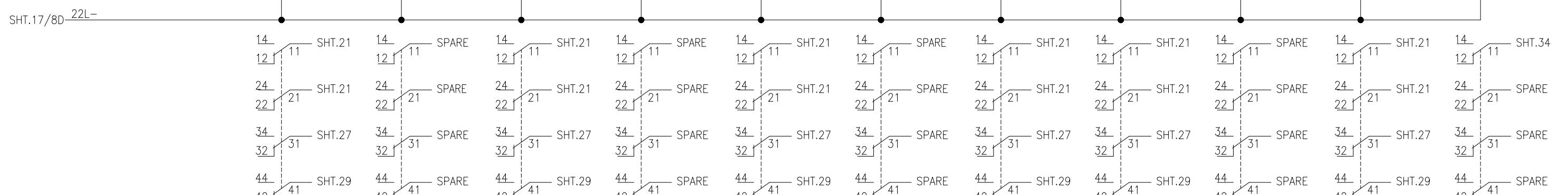
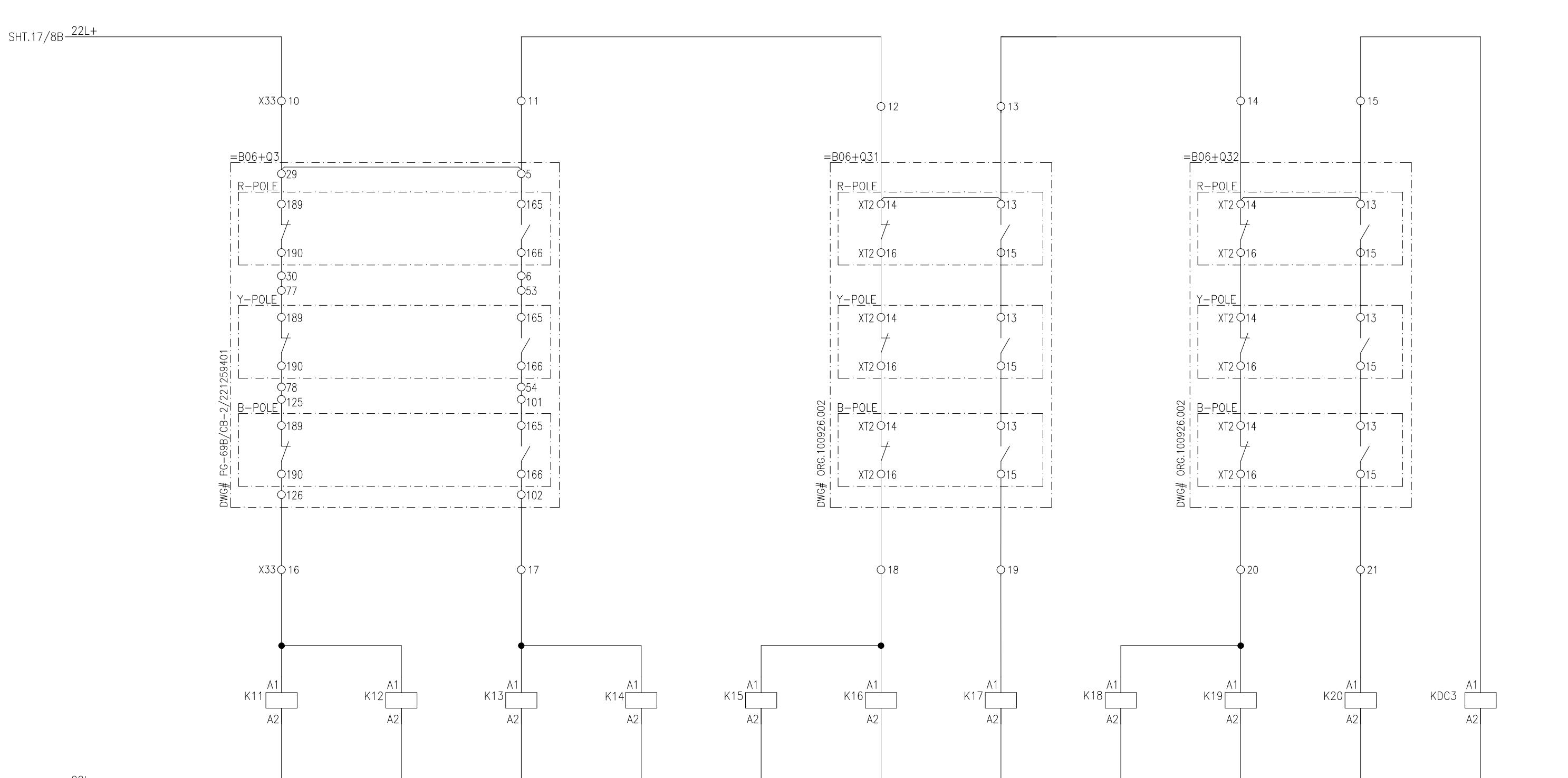
OPEN

CLOSE

DS =B06+Q32 STATUS

OPEN

CLOSE



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: CB/DS STATUS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 20 OF 35
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT

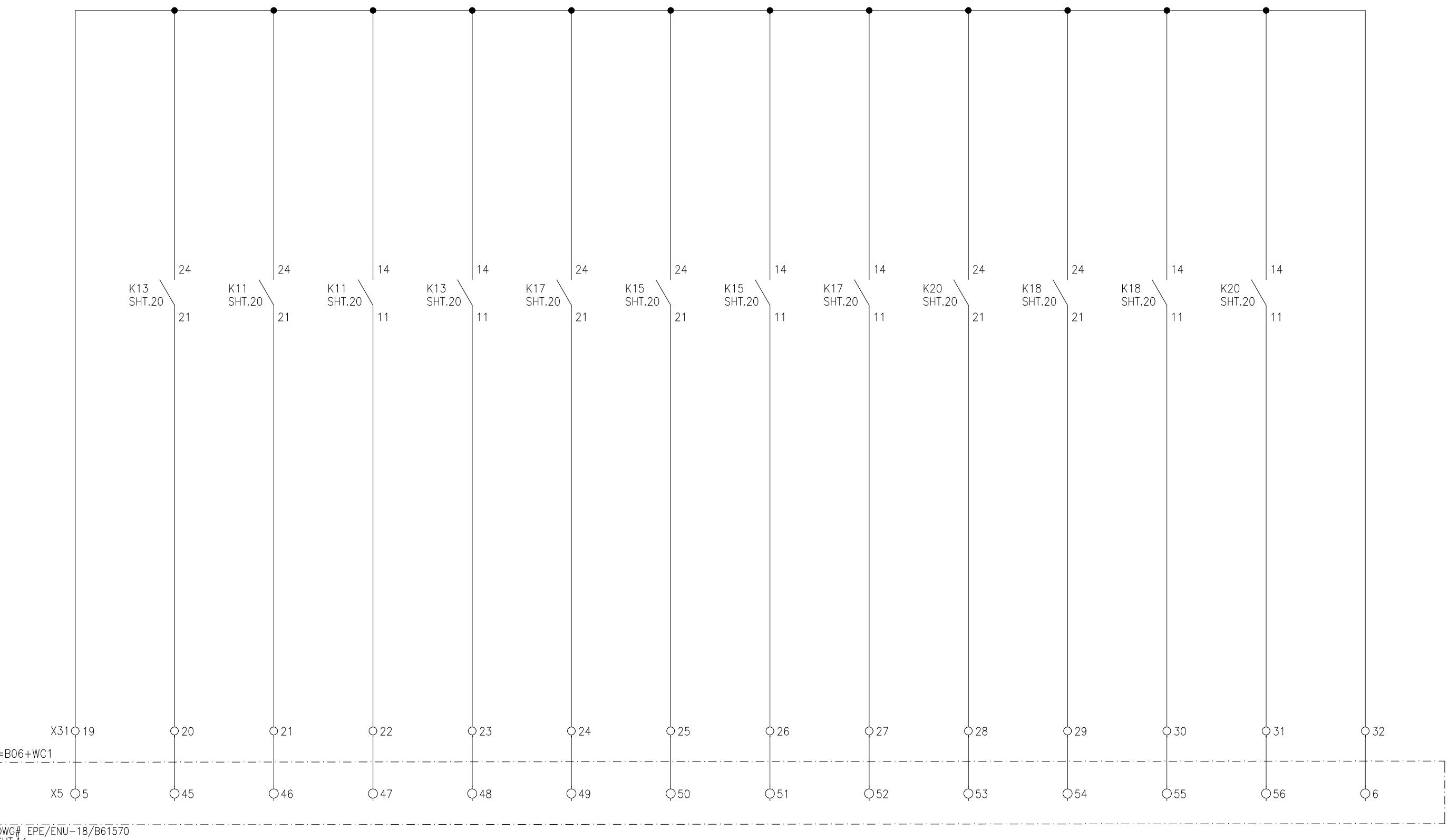
1 2 3 4 5 6 7 8

CLOSE OPEN OPEN CLOSE CLOSE OPEN OPEN CLOSE CLOSE OPEN OPEN CLOSE

CB
=B06+Q3

DS
=B06+Q31

DS
=B06+Q32



DWG# EPE/ENU-18/B61570
SHT.14

APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: POSITION INDICATION FOR CONTROL PANEL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 21 OF 35
NAH	MSS	MUR		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

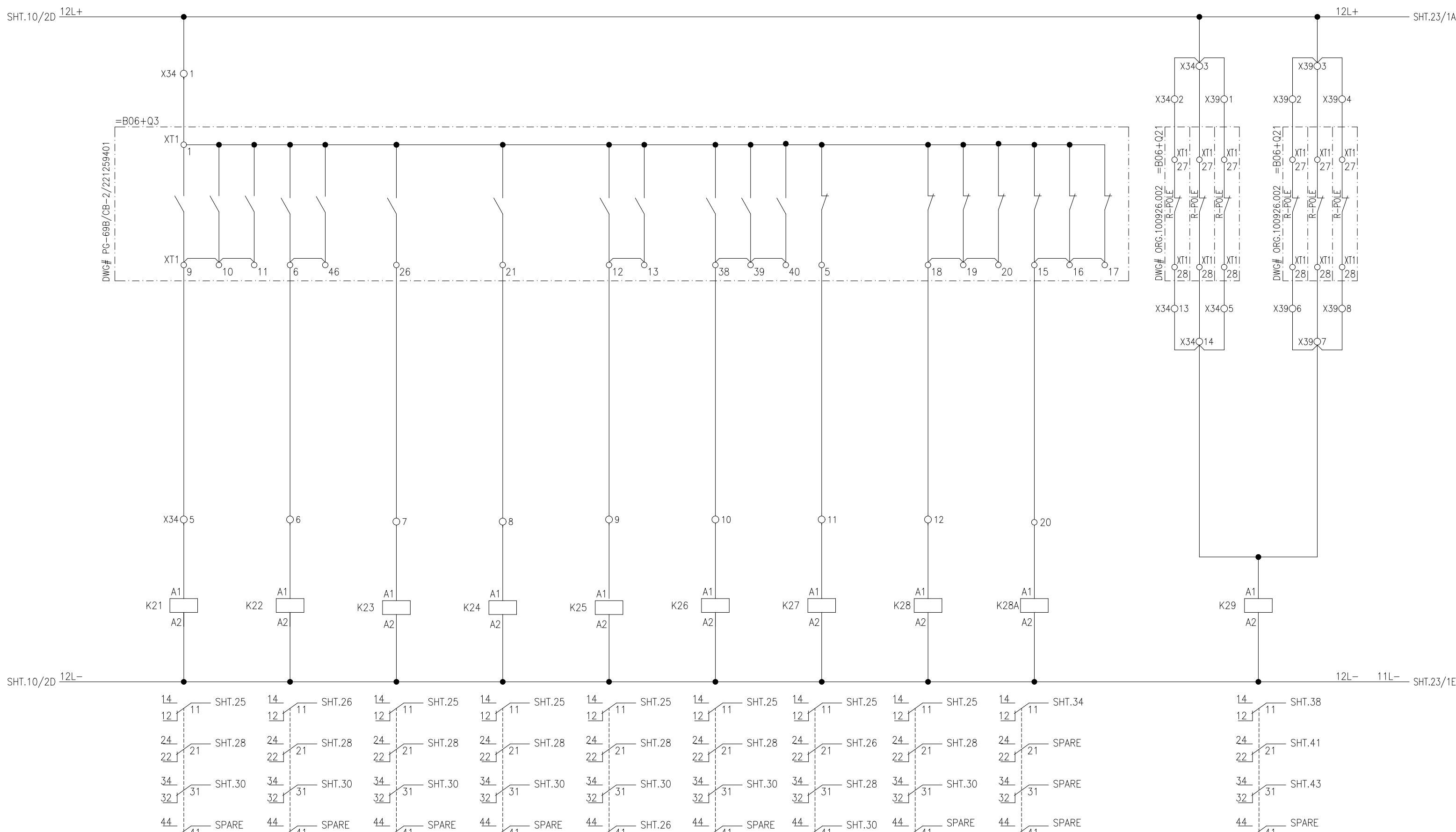


EPESOL Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

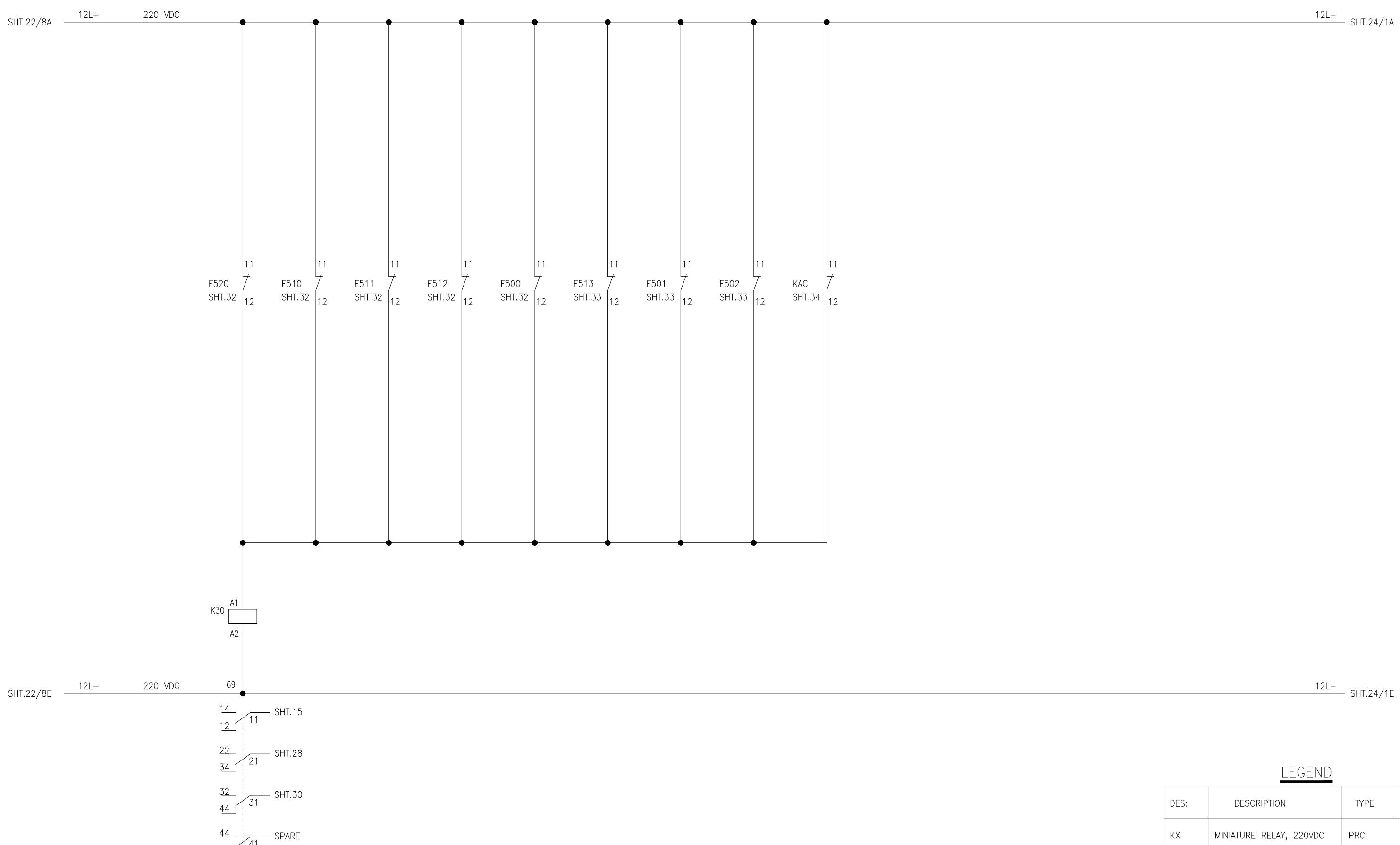
1 2 3 4 5 6 7 8

SF6 LOW MECHANISM CLOSING CB SPRING POLE SF6 LOW PRESSURE MOTOR RUN TIME CONTROL AC MOTOR SUPPLY DS AC MCB
PRESSURE ALARM LOCKOUT NOT CHARGED DISCREPANCY LOCKOUT MONITORING AT LOCAL FAIL TRIP

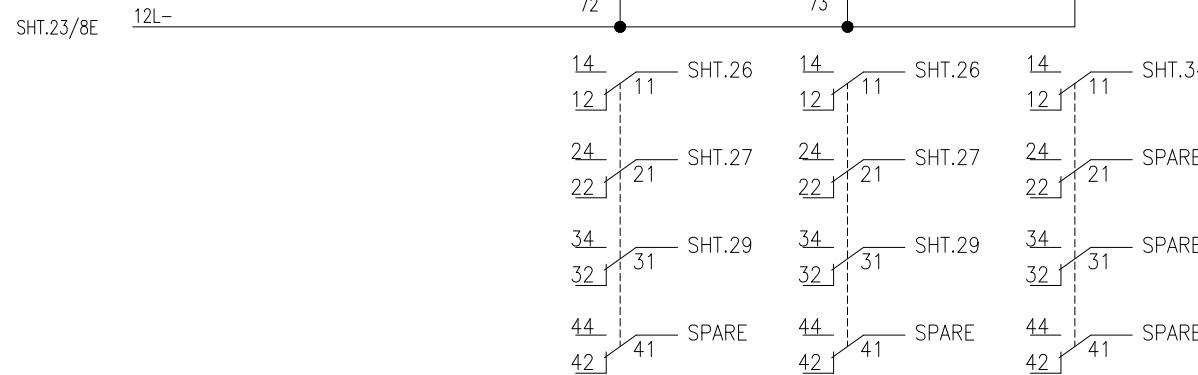
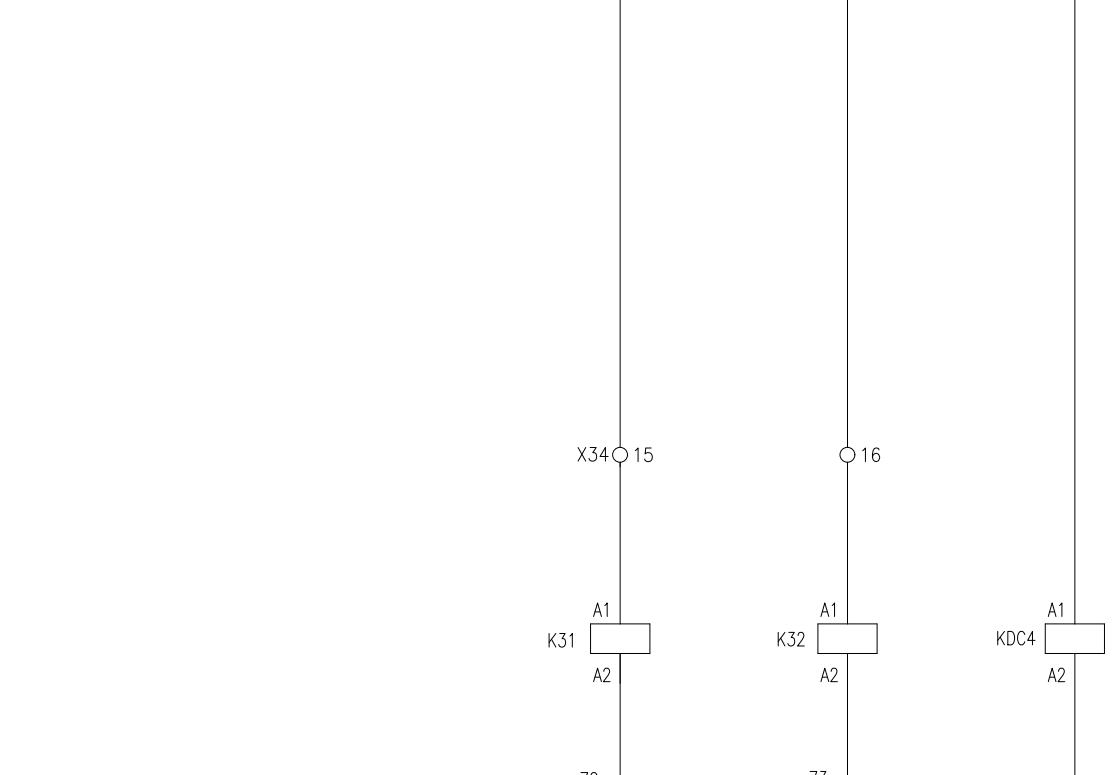
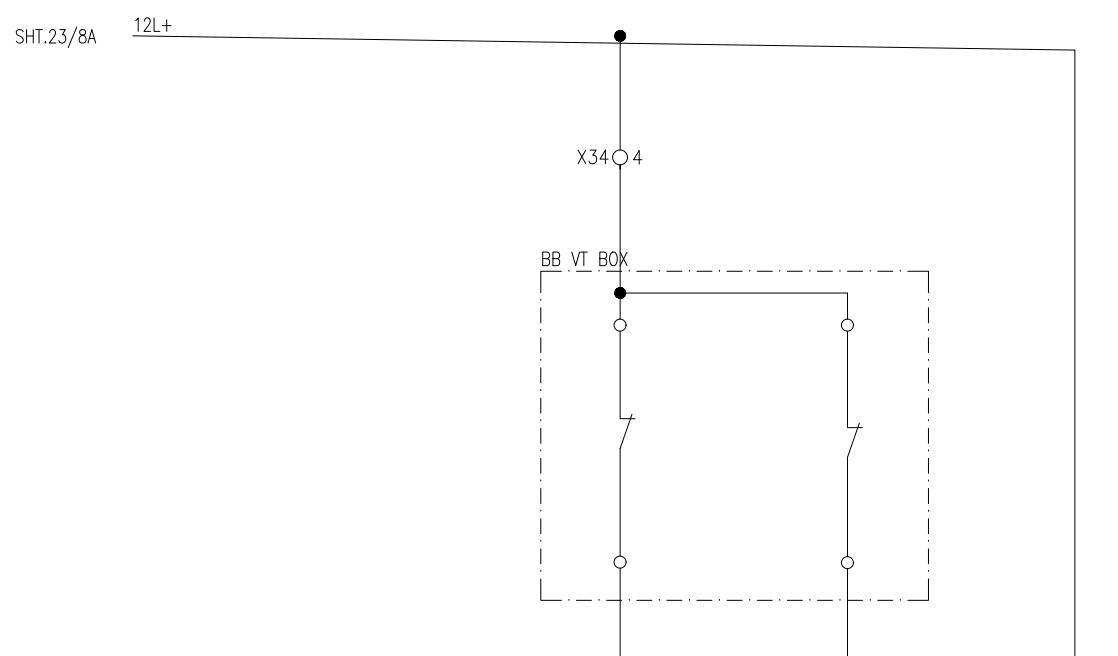
NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE.



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: CB ALARMS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 22 OF 35
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT

AC MCB
TRIP

APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: AC SUPPLY FAIL INDICATION CIRCUIT 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 23 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]		E P E S O L P v t . L t d. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY & CONTROL PANELS

TITLE:

VT MCB TRIP
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



E P E S O L Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

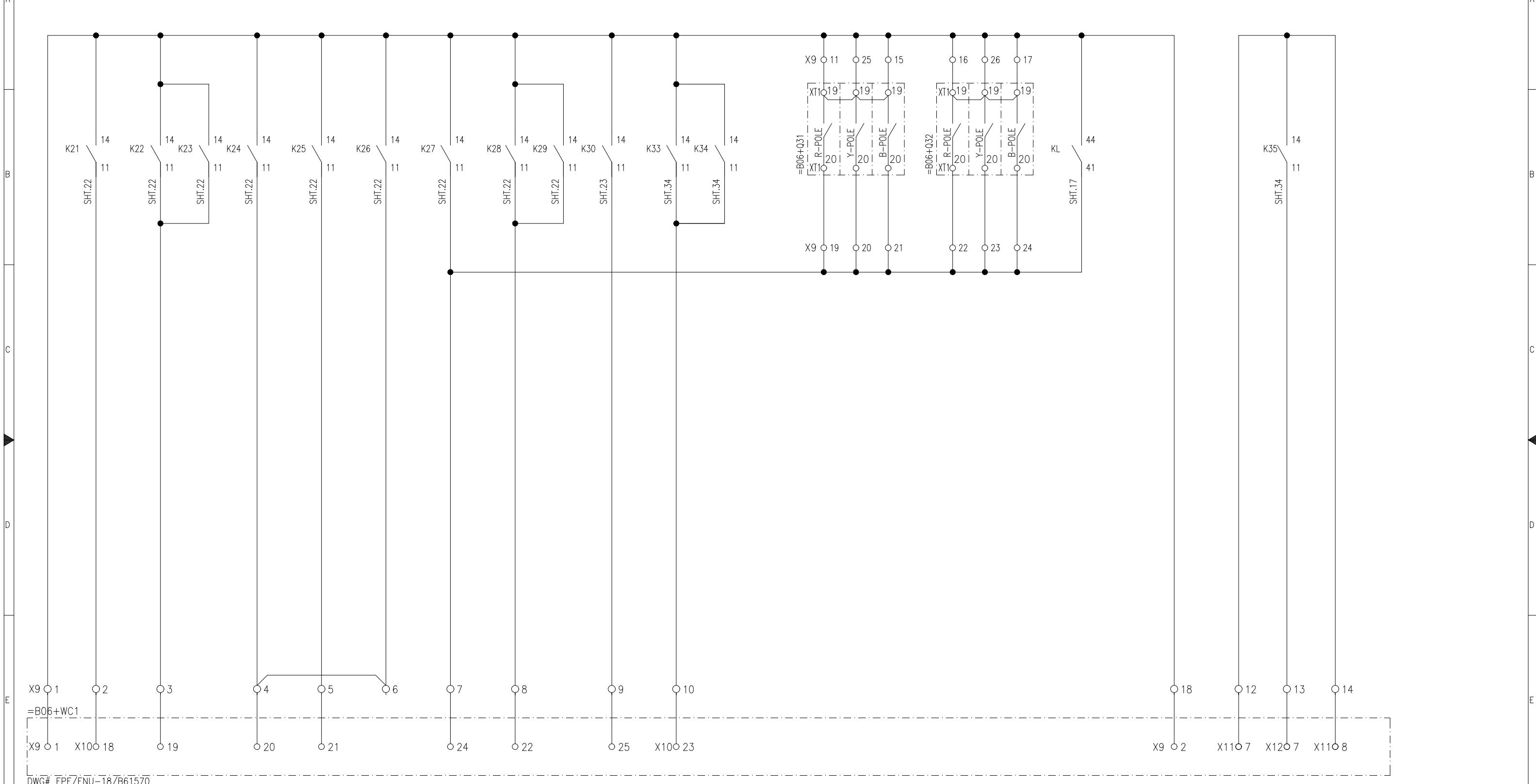
DES:	DESCRIPTION	TYPE	MAKE
KX	MINATURE RELAY, 220VDC	PRC	GE

LEGEND

APPROVED	CHECKED	DRAWN
NAH	MSS	MUR

DWG# EPE/ENU-18/B61582	SHT: 24 OF 35
DATE: 07.03.2019	AS BUILT

1	2	3	4	5	6	7	8
SF6 PRESSURE LOW	MECH. CLOSING LOCKOUT	CB SPRING ENFORCED NOT CHARGED	SF6 PRESSURE LOW LOCKOUT	MOTOR RUN TIME MONITORING	CB CONTROL AT LOCAL	AC SUPPLY DS SUPPLY FAIL	MK AC MCB TRIP
							MOTOR CIRCUIT MCB TRIP CB DS
							MK DC SUPPLY FAILURE



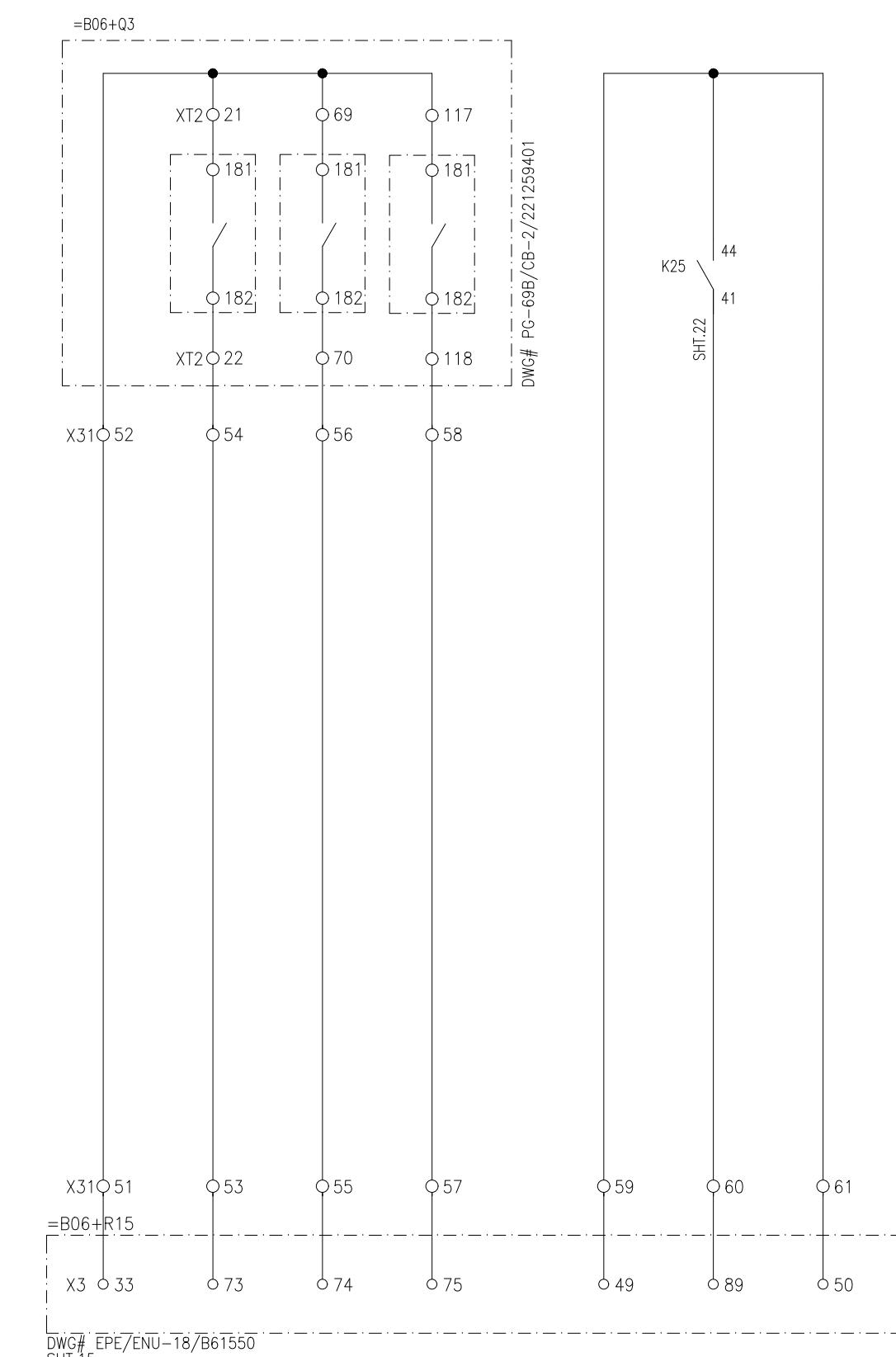
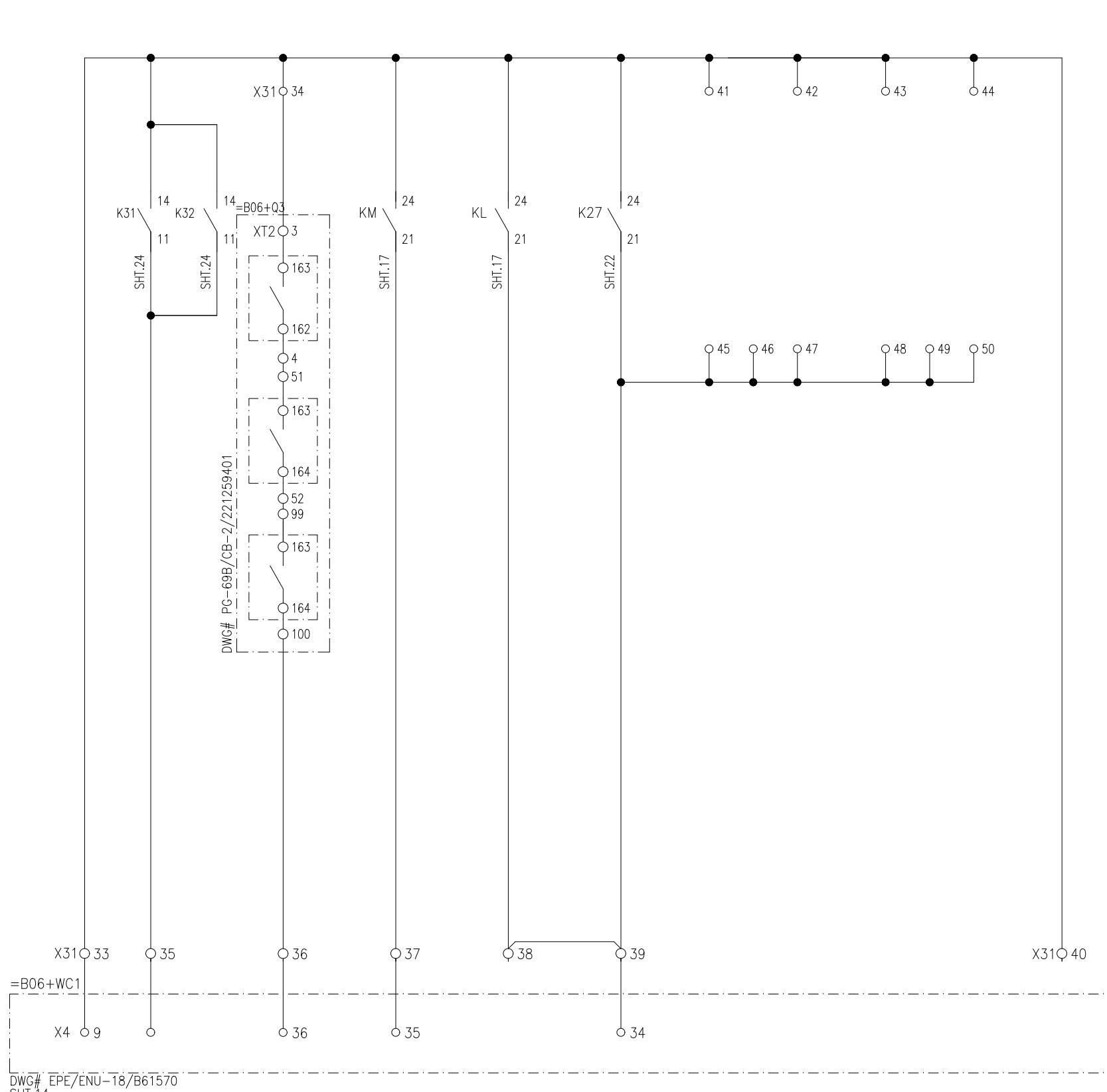
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR ANNUNCIATION 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 25 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

1 BB-1 VT OPERATION CB =B06+Q3
MCB TRIP COUNTER UNDER IN LCC
MAINTENANCE LOCAL MODE

2
3
4
5
6 B06+Q3 AUX CONTACT
FOR BREAKER FAILURE
RESET

7 CB FAULTY

8



NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE.

APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR ANNUNCIATION 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	E P E S O L P v t . L t d. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 26 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]				DATE: 07.03.2019	AS BUILT



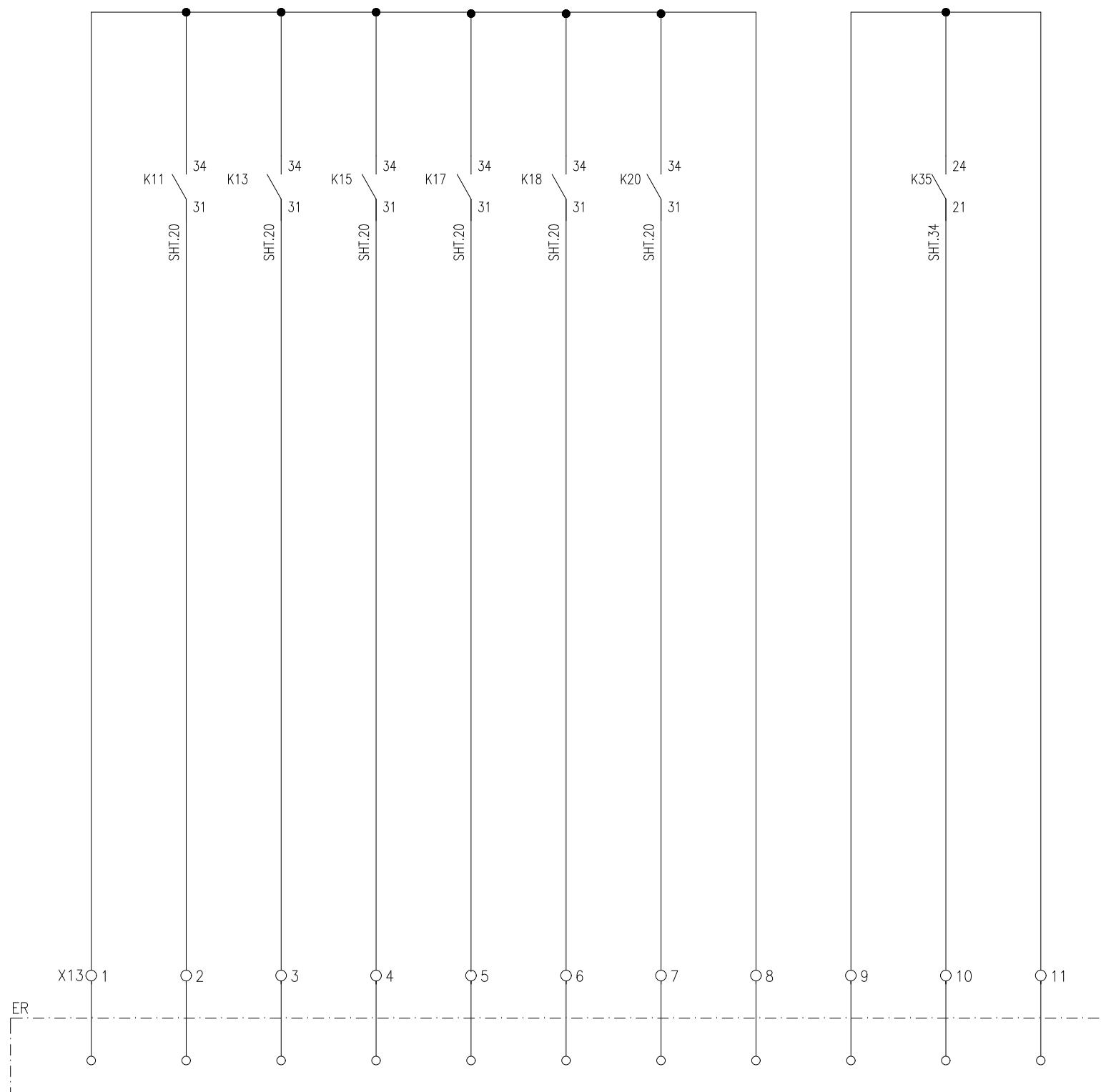
E P E S O L P v t . L t d.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582

DATE: 07.03.2019

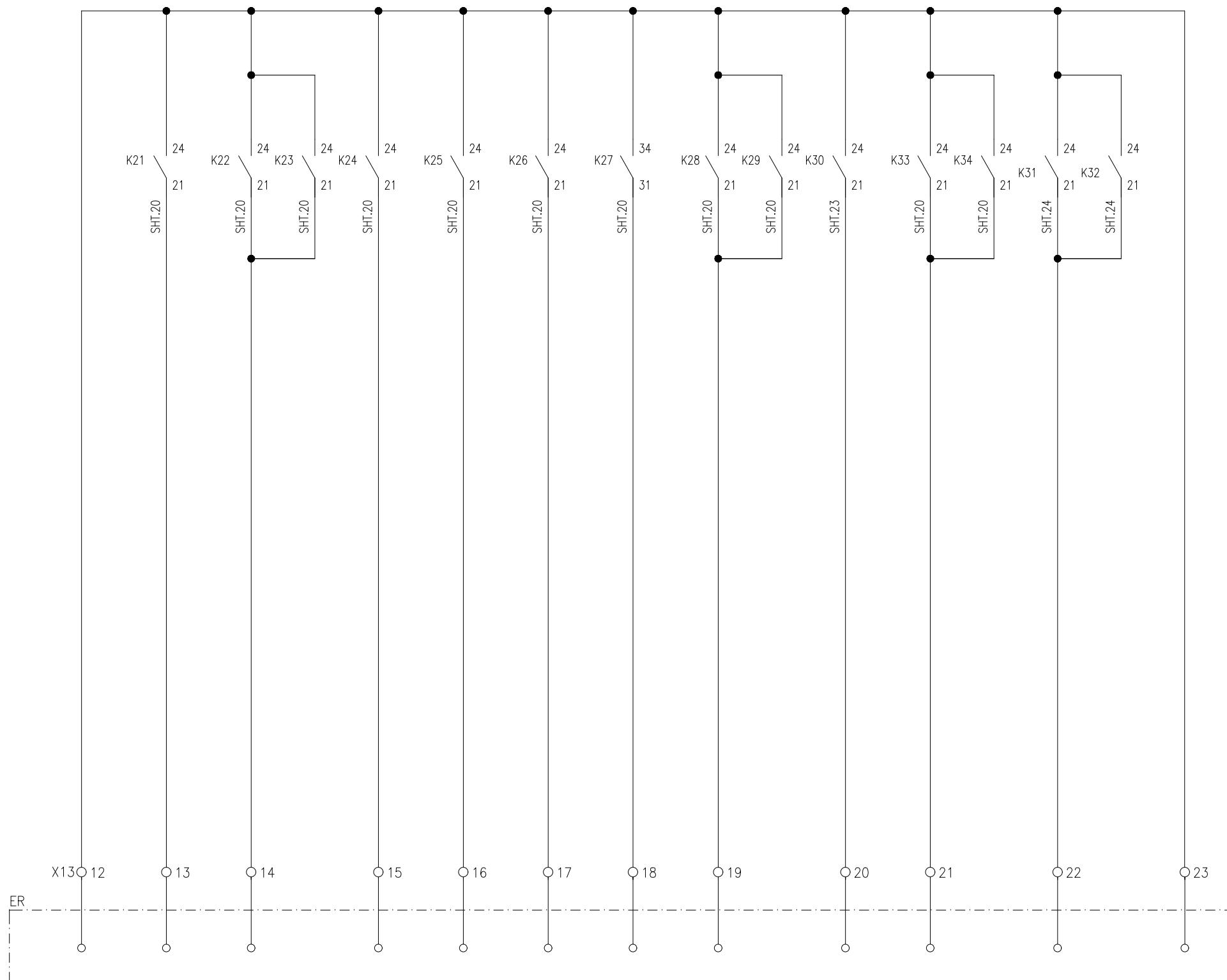
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REV: 0



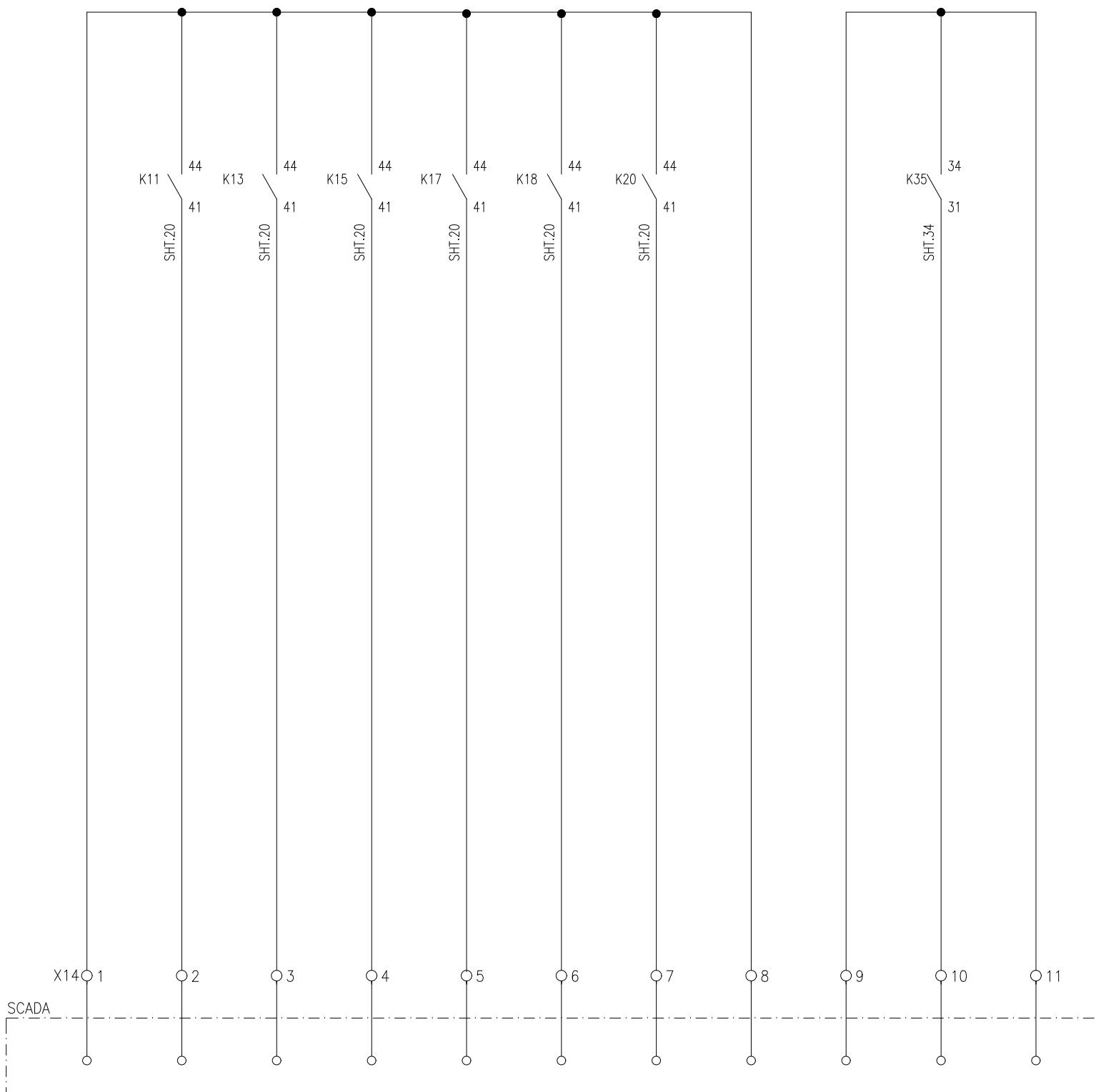
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR EVENT RECORDER 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 27 OF 35
NAH Q	MSS M	MUR		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

1	2	3	4	5	6	7	8
SF6 PRESSURE LOW	MECH. CLOSING LOCKOUT	CB SPRING ENFORCED NOT CHARGED	SF6 PRESSURE LOW	MOTOR RUN TIME LOCKOUT	CB CONTROL MONITORING AT LOCAL	AC SUPPLY DS SUPPLY FAIL	MK AC MCB TRIP
		3-POLE OPERATION				BB-1 VT MCB TRIP CB DS	MOTOR CIRCUIT MCB TRIP
A	A	B	B	C	C	D	D



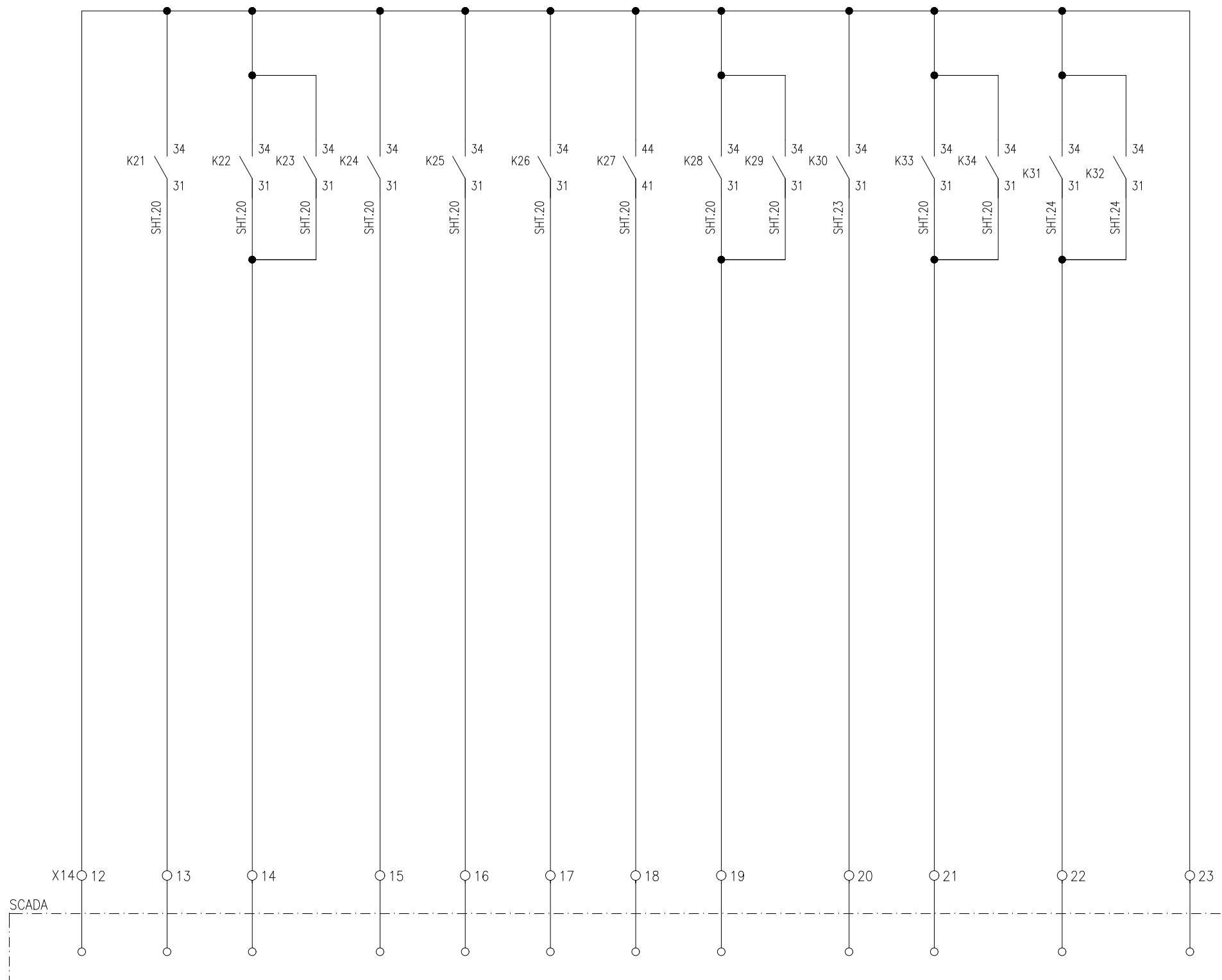
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR EVENT RECORDER 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPE SOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 28 OF 35
NAH Q	MSS M	MUR				DATE: 07.03.2019	AS BUILT

1	2	3	4	5	6	7	8
CIRCUIT BREAKER =B06+Q3	DISCONNECTOR =B06+Q3	DISCONNECTOR =B06+Q32	MK DC SUPPLY FAILURE				
OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE		

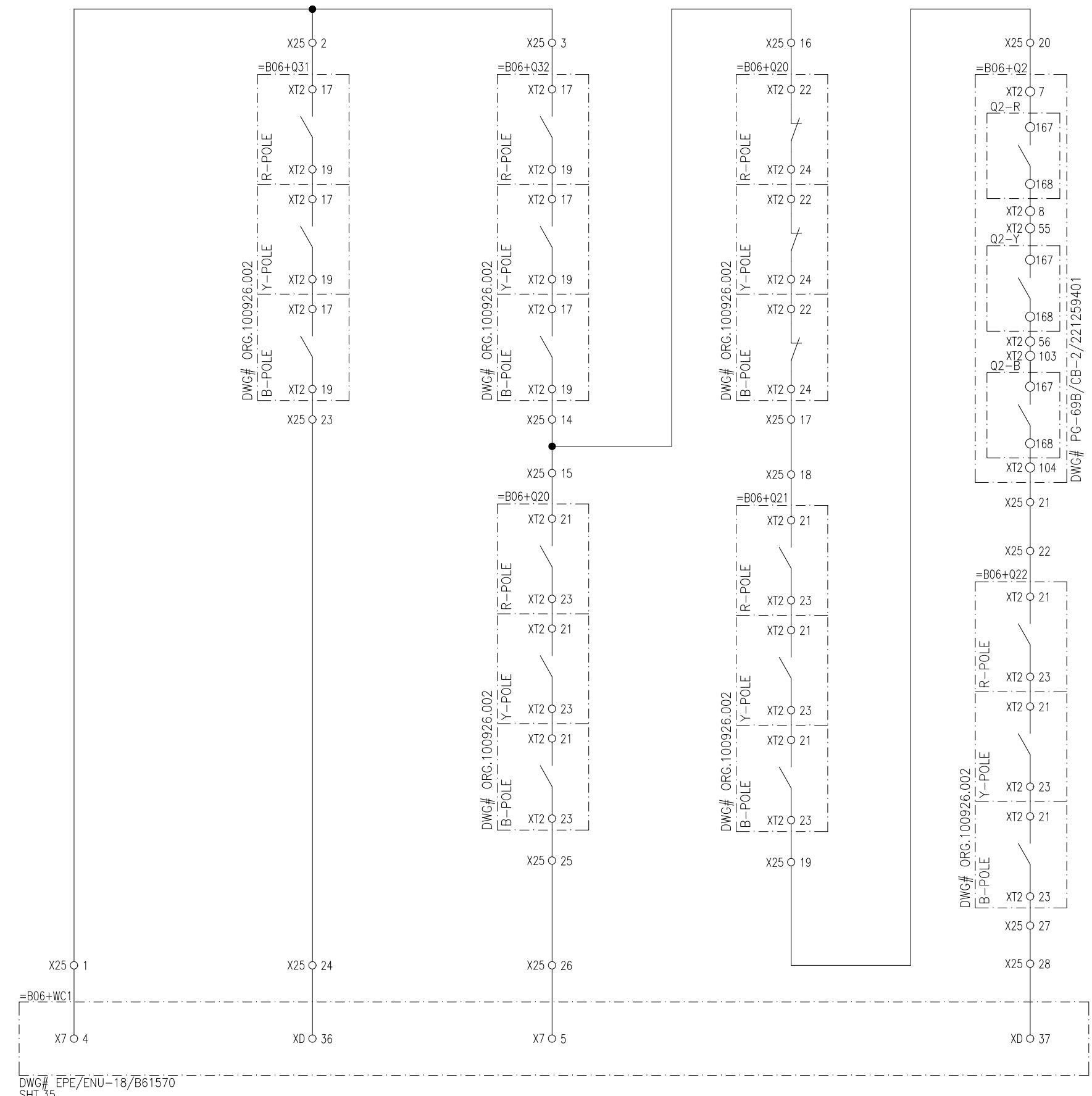


APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR SCADA 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 29 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT REV: 0

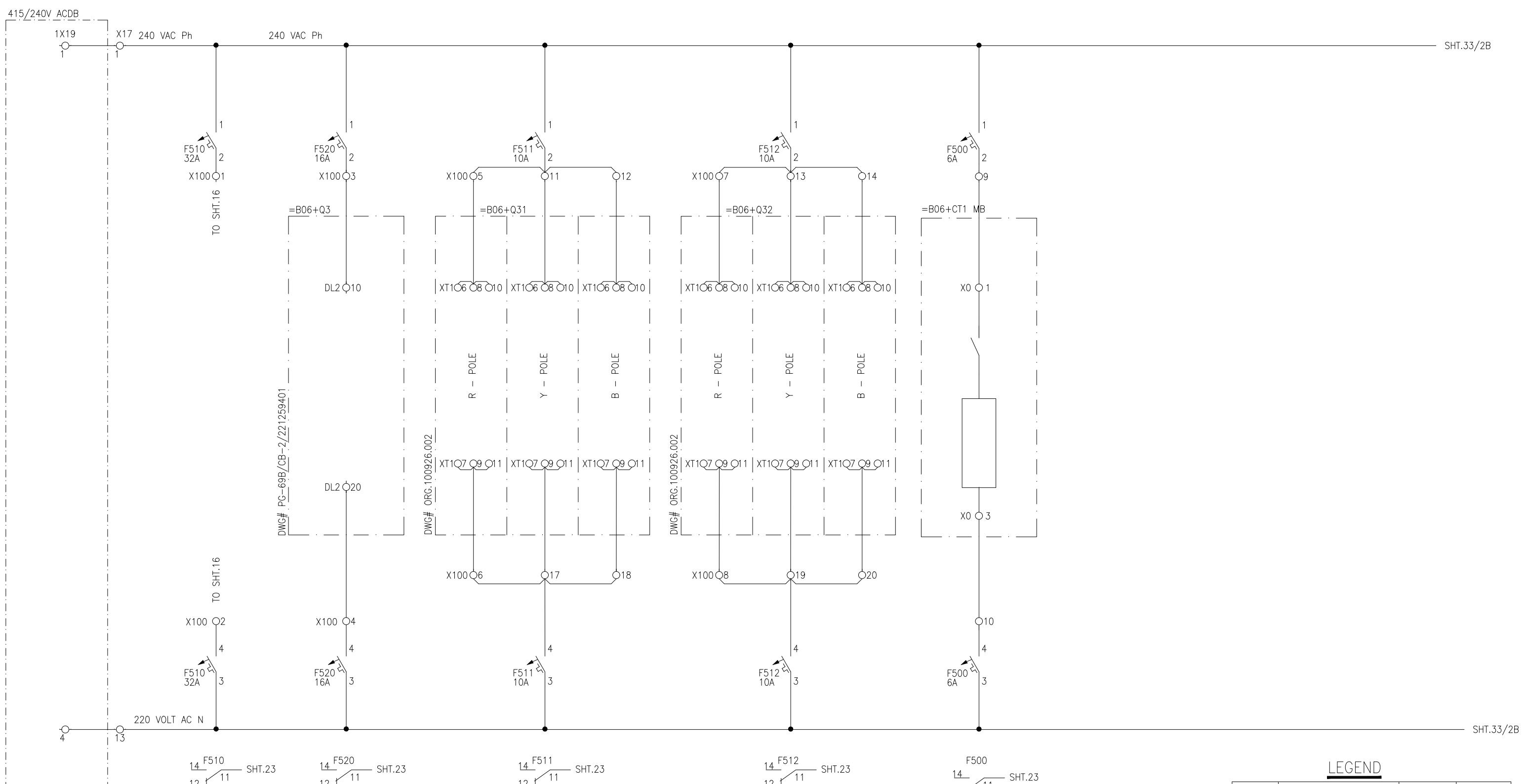
1	2	3	4	5	6	7	8
SF6 PRESSURE LOW	MECH. CLOSING LOCKOUT	CB SPRING ENFORCED NOT CHARGED	SF6 PRESSURE LOW	MOTOR RUN TIME LOCKOUT	CB CONTROL MONITORING AT LOCAL	AC SUPPLY DS SUPPLY FAIL	MK AC MCB TRIP
						MOTOR CIRCUIT MCB TRIP CB DS	BB-1 VT MCB TRIP



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR SCADA 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	EPE SOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 30 OF 35
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT



APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61582	SHT: 31 OF 35
NAH 	MSS 	MUR 				DATE: 07.03.2019	AS BUILT

=B06+Q3
MOTOR DRIVING=B06+Q3
AC SUPPLYDISCONNECTOR
=B06+Q31DISCONNECTOR
=B06+Q31CT BOX
HEATINGLEGEND

DES:	DESCRIPTION	TYPE	MAKE
F5XX	TWO POLE, AC MCB,s	G60	GE

NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE.

APPROVED	CHECKED	DRAWN
NAH	MSS	MUR



PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018
FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

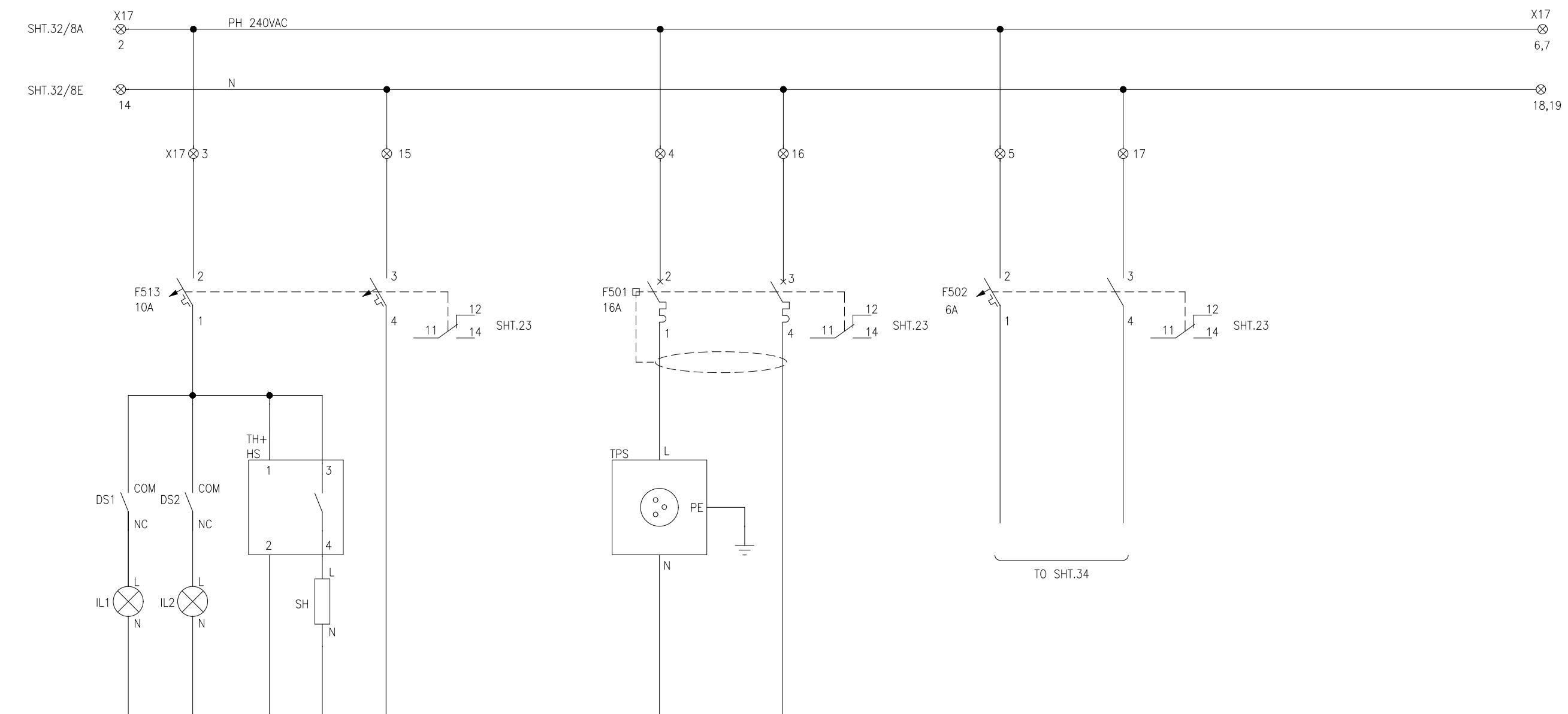
TITLE:
AC DISTRIBUTION CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1

DWG# EPE/ENU-18/B61582 SHT: 32 OF 35
DWG# EPE/ENU-18/B61582 SHT: 32 OF 35
E P E S O L P v t . L t d
71-B Garden Block, New Garden Town, Lahore, Pakistan

DATE: 07.03.2019 AS BUILT REV: 0

DOOR SWITCH &
CUBICLE LIGHTSPACE HEATER
THERMOSTAT

THREE PIN SOCKET

PANEL SUPPLY
SUPERVISION CIRCUITLEGEND

DES.	DESCRIPTION	TYPE	MAKE
F5XX	TWO POLE AC MCB	G60	GE
F501	ELCB	DM100	GE
TPS	THREE PIN SOCKET	220V SOCKET	GE
SH	SPACE HEATER	ELH220	GE
TH+HS	THERMOSTAT	ELH220	GE
IL	CUBICLE LIGHT	YST8	YONGSUNG

APPROVED	CHECKED	DRAWN
NAH	MSS	MUR



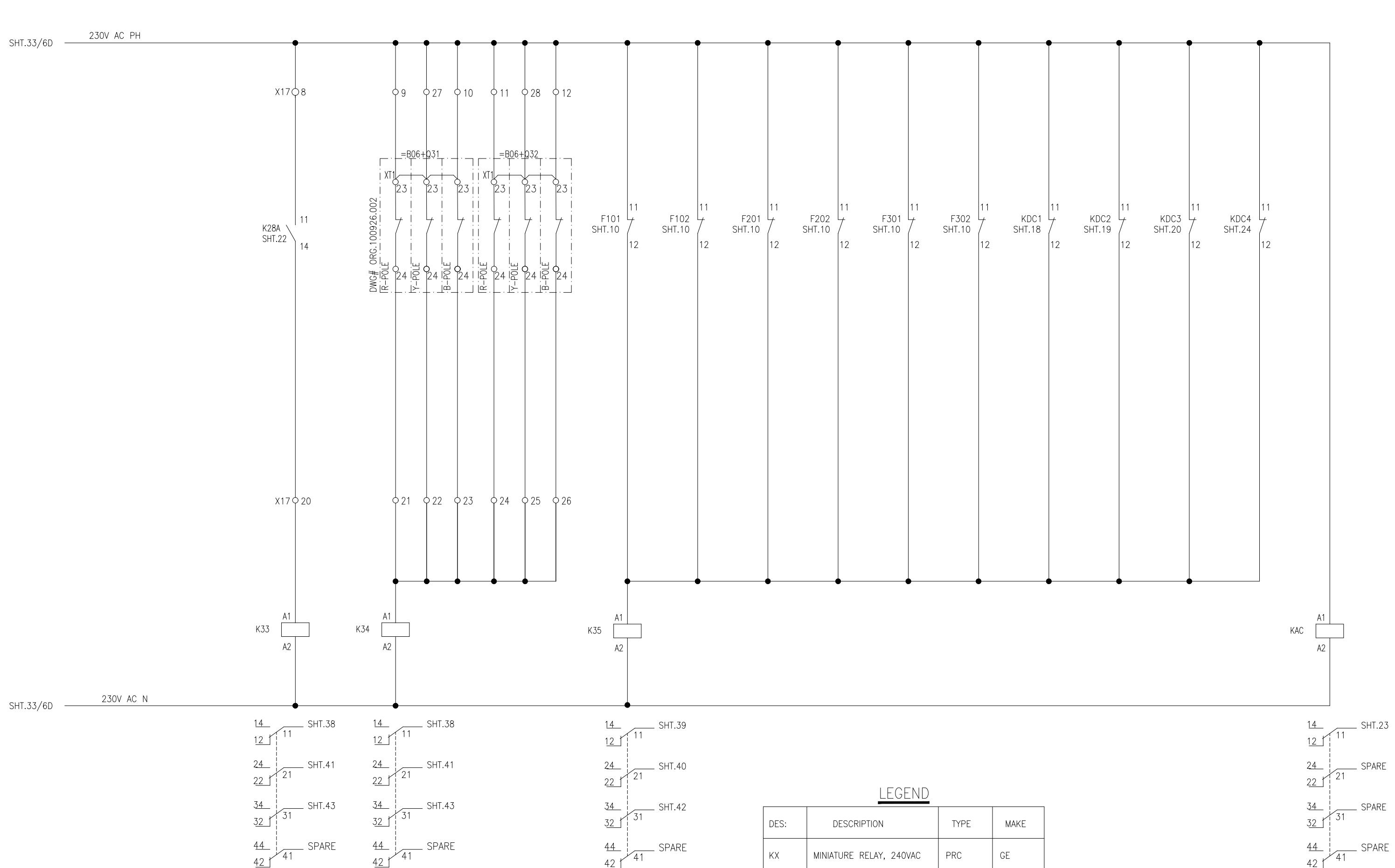
PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

TITLE:
AC DISTRIBUTION CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



E P E S O L P v t . L t d .
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582 SHT: 33 OF 35
DATE: 07.03.2019 AS BUILT REV: 0

CB MOTOR CIRCUIT
MCB TRIPDS MOTOR SUPPLY
MCB TRIPDC MCB
TRIP

PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018
FOR THE PROCUREMENT OF 220KV & 500KV RELAY & CONTROL PANELS

TITLE:

DC MCB TRIP CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S1

E P E S O L P v t . L t d .
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61582 SHT: 34 OF 35

DATE: 07.03.2019 AS BUILT REV: 0

APPROVED	CHECKED	DRAWN
NAH	MSS	MUR



Sohail

MUR

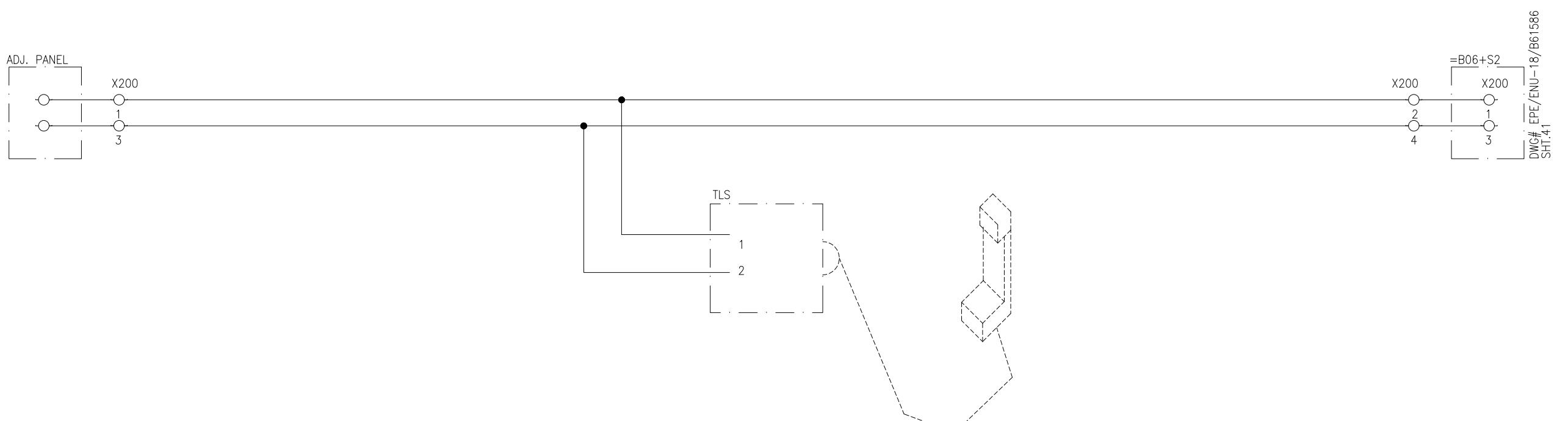
By

Signature

Date

Signature

TELEPHONE
SOCKET



LEGEND

DES:	DESCRIPTION	TYPE	MAKE
TLS	TELEPHONE SOCKET	LOCAL	LOCAL

APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: TELEPHONE SOCKET 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	DWG# EPE/ENU-18/B61582	SHT: 35 OF 35
NAH [Signature]	MSS [Signature]	MUR [Signature]	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan		DATE: 07.03.2019	AS BUILT REV: 0

LEGEND



TEMPORARY SHORTENING LIN



PERMANENT LINK



END COVER

REMOTE DESTINATION	TERMINAL BLOCK	TERMINAL NO	TERMINAL STRIP X1				
			LINK		REFERENCE		TERMINAL NO
			SHT	/	REF		
			•		05 / 3A	1	
			•	•	05 / 3A	2	
			•		05 / 3B	3	
			•	•	05 / 3B	4	
			•		05 / 3B	5	
			•	•	05 / 3C	6	
				•	05 / 3C	7	
			•		05 / 7A	8	
			•	•	05 / 7A	9	
			•		05 / 7B	10	
			•	•	05 / 7B	11	
			•		05 / 7B	12	
			•	•	05 / 7C	13	
				•	05 / 7C	14	
			•		05 / 7D	15	
			•	•	05 / 7D	16	
			•		05 / 7D	17	
			•	•	05 / 7D	18	
			•		05 / 7E	19	
			•	•	05 / 7E	20	
				•	05 / 7E	21	
			•		06 / 3A	22	
			•	•	06 / 3A	23	
			•		06 / 3B	24	
			•	•	06 / 3B	25	
			•		06 / 3B	26	
			•	•	06 / 3C	27	
				•	06 / 3C	28	
			•		07 / 3A	29	
			•	•	07 / 3A	30	
			•		07 / 3B	31	
			•	•	07 / 3B	32	
			•		07 / 3B	33	
			•	•	07 / 3C	34	
				•	07 / 3C	35	

APPROVED	CHECKED	DRAWN	PROJECT:
NAH <i>Q</i>	MSS <i>M. Sohail</i>	MUR <i>IS</i>	NTDC PO# CE/MP&M/M(P)/AM-VI/EO/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PA



PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/E0/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
OF 220KV & 500KV PROTECTION & CONTROL PANEL

TITLE: TERMINAL DETAIL
POINT 500KV LOCAL CONTROL CIRCUIT TYPE -R06 LS1



E P E S O L Pvt. Ltd.

DWG# EPE/ENU-18/B61583	SHT: 01 OF 21
DATE: 07.03.2019	AS BUILT REV: 0

SCHEME DWG. REF: EPE/ENU-18/B61582

LEGEND



TEMPORARY SHORTENING LINK



PERMANENT LINK



END COVER

APPROVED CHECKED DRAWN

APPROVED CHECKED DRAW

NAH *C. L.* MSS *M. Sohal* MUR *C.*

PROJECT



T:
NTDC PO# CE/MP&M/M(P)/AM-VI/E0/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
OF 220KV & 500KV PROTECTION & CONTROL PANEL

TITLE E.

TITLE: TERMINAL DETAIL
T 500W LOCAL CONTROL CUBICAL TYPE - R06 LS1



EFBESet

 EPE SOL Pvt. Ltd.

DWC# EPE/ENIU-18/B61583

DWG# E/E/EN5-18/B01585

SHT: 03.0E 21

SHT. 05 OF 2

APPROVED	CHECKED	DRAWN	PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/EO/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS	TITLE: 500KV LOCAL TERMINAL DETAIL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61583	SHT: 04 OF 21
NAH (J)	MSS M. (Signature)	MUR (K)				DATE: 07.03.2019	AS BUILT REV: 0

LEGEND:



TEMPORARY SHORTENING LINK



PERMANENT LINK



END COVER

APPROVED	CHECKED	DRAWN	PROJECT:
NAH 	MSS  M/Sohat	MUR 	 NTDC PO# CE/MP&M/M(P)/AM-VI/EO/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PA



PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/EO/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
OF 220KV & 500KV PROTECTION & CONTROL PANEL

TITLE: TERMINAL DETAIL
POINT 500KV LOCAL CONTROL CIRCUIT TYPE -R06 LS1



E P E S O L Pvt. Ltd.
- P G Suite, Block No - C, Sector - 7, Jalandhar, Punjab.

DWG# EPE/ENU-18/B61583	SHT: 05 OF 21
DATE: 07.03.2010	AS-BUILT REV. 0



PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/EO/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
CE/2018/L & ESS/2018/PROTECTION A CONTROL PANEL

TITLE:

IT S TITLE: TERMINAL DETAIL
500W LOCAL CONTROL SURGICAL TYPE -P06 LS1



E P E S O L Pvt. Ltd.
- P.Gardens Block, New Gurdaspur Town, Jalandhar, Punjab.

BMS II - EPE (ENH) 1.0 / Page 27

DWG# EPE/ENU-1

Page 5 of 7

/B61583 SHI

1: 06 C



PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/E0/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
CE/2004V1 & E500V1 PROTECTION & CONTROL PANEL

TITLE E:

IT C TITLE: TERMINAL DETAIL



E P E S O L Pvt. Ltd.
P-2 Gurdaspur Block, New Gurdaspur Town, Jalandhar, Punjab, India.

DWO II - EDE / ENH - 1.0 / D241503

DWG# EPE/ENU-1

/D24503 QUIT 03.05.20

/B61583 SHI

22 25 24

08 0

SCHEME DWG. REF: EPE/ENU-18/B61582

LEGEND:



TEMPORARY SHORTENING LINK



PERMANENT LINK



END COVER

TERMINATION B

APPROVED	CHECKED	DRAWN
Initials	MSG- <i>etc.</i>	MUR- <i>HZ</i>



DB2 LEARN

PROJECT

PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/E0/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
OF 22KV & 500KV PROTECTION & CONTROL PANEL

TITLE

TITLE:

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S 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1



E P E S O I Part 10

EFE SOL Pvt. Ltd.

71-B Garden Block, New Garden Town, Lahore, Pakistan

DWC // EDE /ENI 18/DC1E87

DWG# EPE/ENU-18/B61583

AS BUILT

SUT: 00 OF 2

SHI: 09 OF 2

REV. 0

Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION	LEGEND:								SCHEME DWG. REF: EPE/ENU-18/B61582								
A	1											TEMPORARY SHORTENING LINK								
A	2											PERMANENT LINK								
A	3											D-		END COVER						
A	4																			
A	5																			
A	6																			
B	7																			
B	8																			
B	9																			
B	10																			
B	11																			
B	12																			
C	1	2	3	4	5	6	7	8	9	10	11	12								
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PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/E0/
9417-29 DATED 14.11.2018 FOR PROCUREMENT
CE/2018/L & E/2018/L PROTECTION & CONTROL PANEL

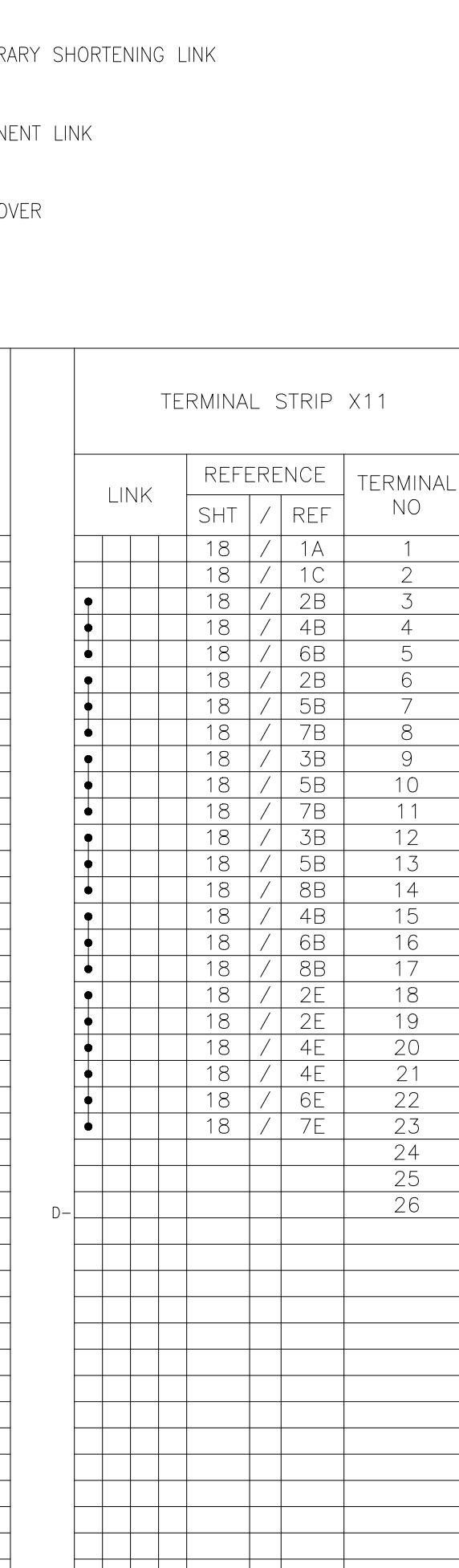
TITLE: TERMINAL DETAIL
ECG LOCAL CONTROL SURGICAL TYPE: PSC + C4



E P E S O L Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61583 SHT: 10 OF 21
DATE: 07.03.2019 AS BUILT REV: 0

Sr.	CABLE DESIGNATION		CORE CROSS SECTION		DESTINATION		LEGEND:												SCHEME DWG. REF: EPE/ENU-18/B61582			
A	1																					
A	2																					
A	3																					
A	4																					
A	5																					
A	6																					
B	7																					
B	8																					
B	9																					
B	10																					
B	11																					
B	12																					
C	1	2	3	4	5	6	7	8	9	10	11	12										
D																						
E																						
F																						
APPROVED		CHECKED		DRAWN		PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/E0/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS						TITLE: TERMINAL DETAIL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1		E P E S O L P v t . L t d . 71-B Garden Block, New Garden Town, Lahore, Pakistan				DWG# EPE/ENU-18/B61583	SHT: 11 OF 21			
NAH		MSS		MUR																DATE: 07.03.2019	AS BUILT	REV: 0



SCHEME DWG. REF: EPE/ENU-18/B61582

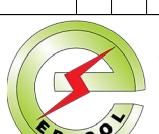
 E P E S O L Pvt. Ltd.	DWG# EPE/ENU-18/B61583	SHT: 12 OF 21
71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT
		REV: 0

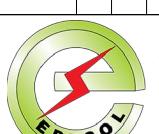
Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION	LEGEND:												SCHEME DWG. REF: EPE/ENU-18/B61582						
A	1																					
A	2																					
A	3																					
A	4																					
A	5																					
A	6																					
B	7																					
B	8																					
B	9																					
B	10																					
B	11																					
B	12																					
c	1	2	3	4	5	6	7	8	9	10	11	12				TERMINAL STRIP X9						
c																LINK	REFERENCE		TERMINAL NO			
c																	SHT / REF					
c																25 / 1E	1		K21	14		
c																25 / 1E	2		K21	11		
c																25 / 1E	3		K22	11		
c																25 / 2E	4		K24	11		
c																25 / 2E	5		K25	11		
c																25 / 2E	6		K26	11		
c																25 / 3E	7		K27	11		
c																25 / 3E	8		K28	11		
c																25 / 4E	9		K30	11		
c																25 / 4E	10		K33	11		
c																25 / 5A	11		K34	14		
c																25 / 7E	12		K35	14		
c																25 / 7E	13		K35	11		
c																25 / 8E	14		K35	14		
D																25 / 5A	15					
D																25 / 5A	16					
D																25 / 8A	17					
D																25 / 7E	18					
D																25 / 5E	19					
D																25 / 5B	20					
D																25 / 5B	21					
D																25 / 6B	22					
D																25 / 6B	23					
D																25 / 6B	24					
D																	25					
D																	26					
D																	27					
E																						
F																						
APPROVED	CHECKED	DRAWN	PROJECT:	TITLE: TERMINAL DETAIL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1								 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan						DWG# EPE/ENU-18/B61583	SHT: 15 OF 21			
NAH	MSS	MUR				NTDC PO# CE/MP&M/M(P)/AM-VI/E0/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS								DATE: 07.03.2019	AS BUILT	REV: 0						

Sr.	CABLE DESIGNATION		CORE CROSS SECTION		DESTINATION															SCHEME DWG. REF: EPE/ENU-18/B61582	
A	1																				
A	2																				
A	3																				
A	4																				
A	5																				
A	6																				
B	7																				
B	8																				
B	9																				
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B	11																				
B	12																				
C	1	2	3	4	5	6	7	8	9	10	11	12									
D																					
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PP																					

SCHEME DWG. REF: EPE/ENU-18/B61582

APPROVED	CHECKED	DRAWN	PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/EO/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS	TITLE: TERMINAL DETAIL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61583	SHT: 18 OF 21
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT

Sr.	CABLE DESIGNATION			CORE CROSS SECTION			DESTINATION			LEGEND:												SCHEME DWG. REF: EPE/ENU-18/B61582																																																																																		
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
B	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
APPROVED	CHECKED	DRAWN	PROJECT: NTDC PO# CE/MP&M/M(P)/AM-VI/E0/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS												TITLE: TERMINAL DETAIL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1												DWG# EPE/ENU-18/B61583 SHT: 19 OF 21																																																																													
NAH Q.	MSS M.	MUR I.													 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan												DATE: 07.03.2019 AS BUILT REV: 0																																																																													

Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION	LEGEND:	TEMPORARY SHORTENING LINK	PERMANENT LINK	END COVER	SCHEME DWG. REF: EPE/ENU-18/B61582											
A	1			D-															
A	2																		
A	3																		
A	4																		
A	5																		
A	6																		
B	7																		
B	8																		
B	9																		
B	10																		
B	11																		
B	12																		
C	1	2	3	4	5	6	7	8	9	10	11	12	REMOTE DESTINATION	TERMINAL BLOCK	TERMINAL NO	TERMINAL STRIP X200	TERMINATION B	ITEM DESIGNATION	TERMINAL NO
C																	TLS	1	
C																	TLS	2	
D																			
E																			
F																			
APPROVED	CHECKED	DRAWN	PROJECT:  NTDC PO# CE/MP&M/M(P)/AM-VI/E0/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS	TITLE: 500KV LOCAL CONTROL CUBICAL TYPE =B06+S1	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61583	SHT: 21 OF 21												
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT	REV: 0											