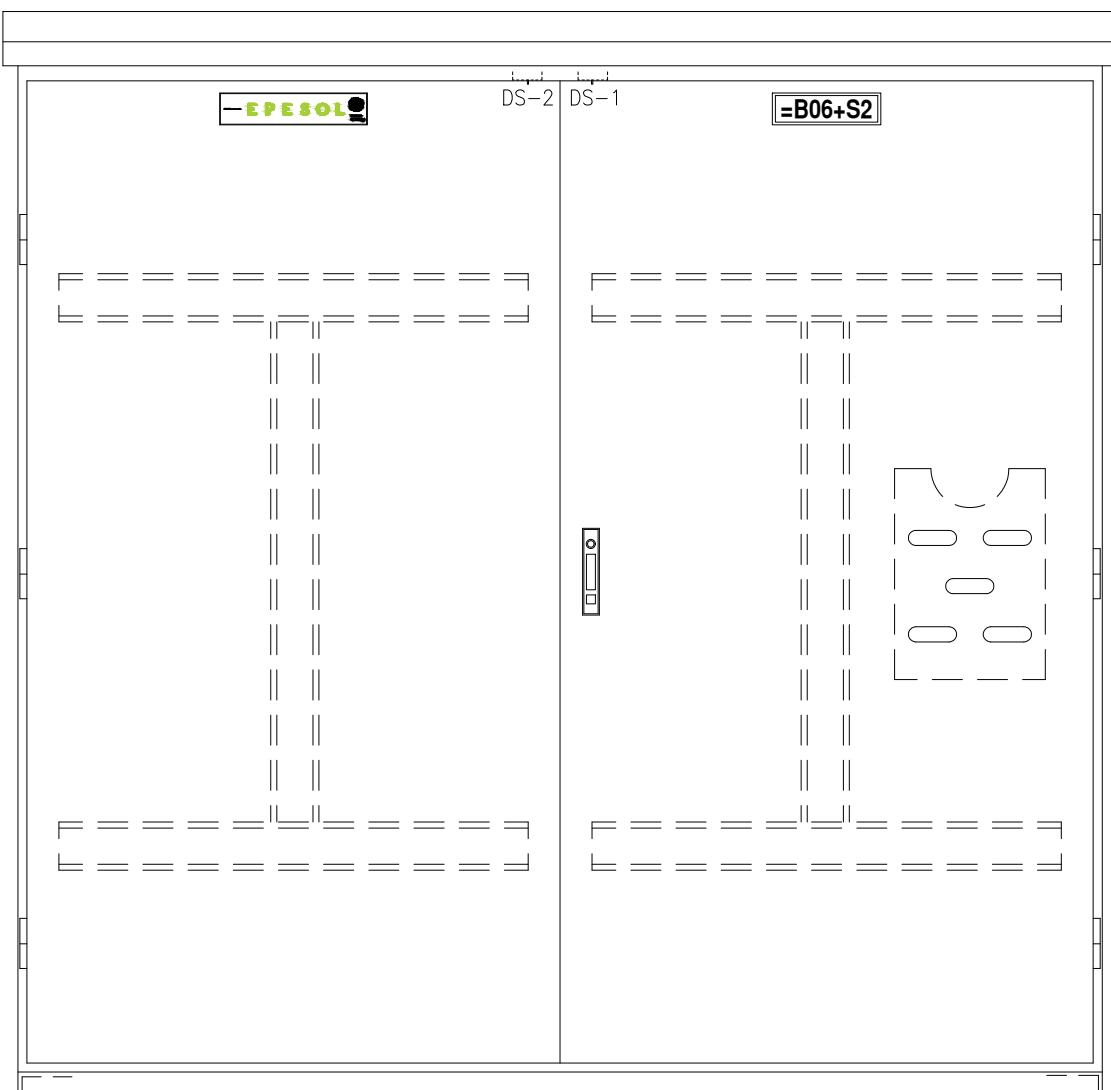


LAYOUT DIAGRAM OF 500kV LOCAL CONTROL CUBICLE TYPE =B06+S2

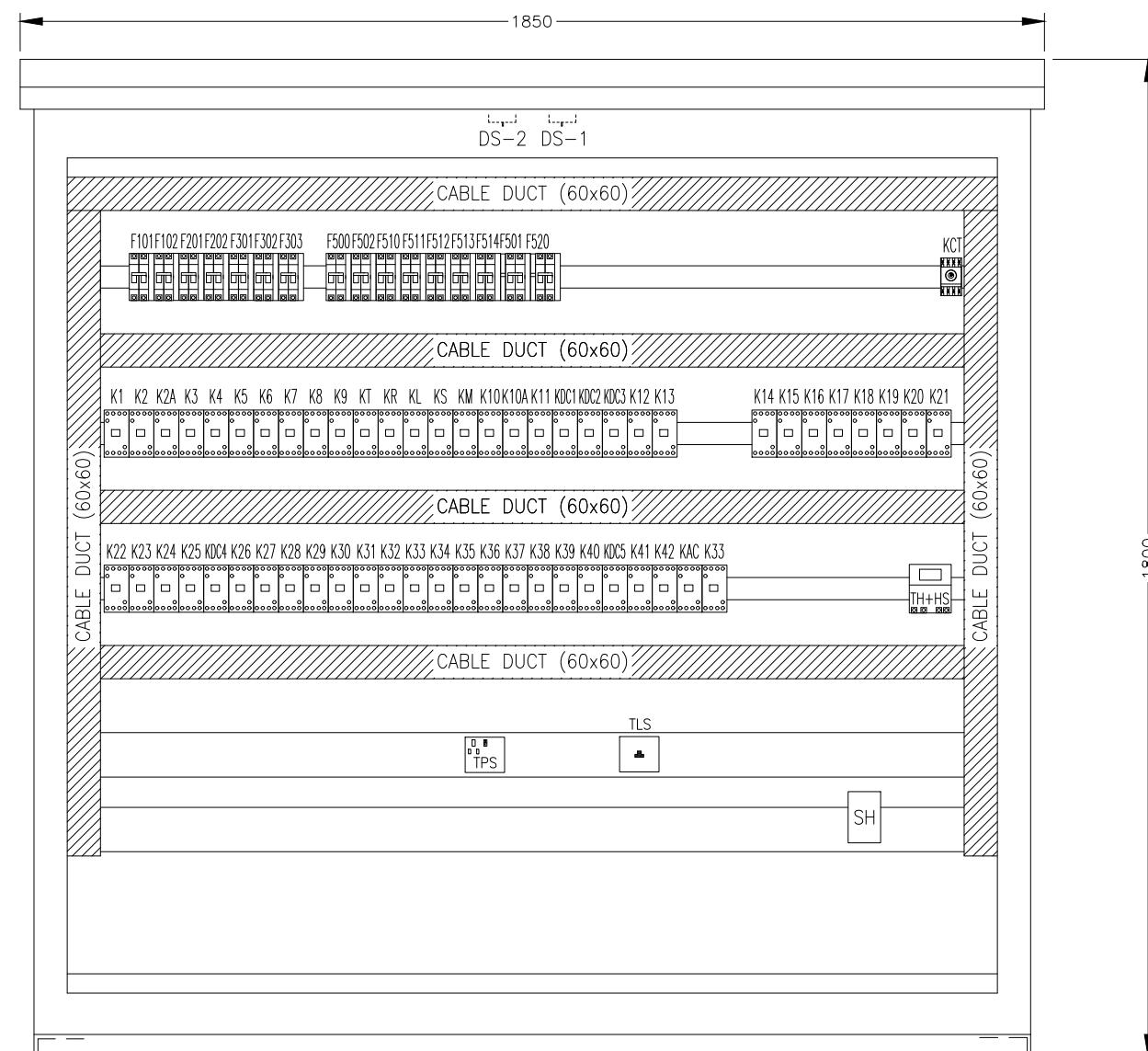
APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:	COVER SHEET	DWG#	SHT:
NAH <i>[Signature]</i>	MSS <i>[Signature]</i>	MUR <i>[Signature]</i>	EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	500kV LOCAL CONTROL CUBICAL TYPE =B06+S2	 EPESOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	EPE/ENU-18/B61584	01 OF 04

A



FRONT VIEW

B

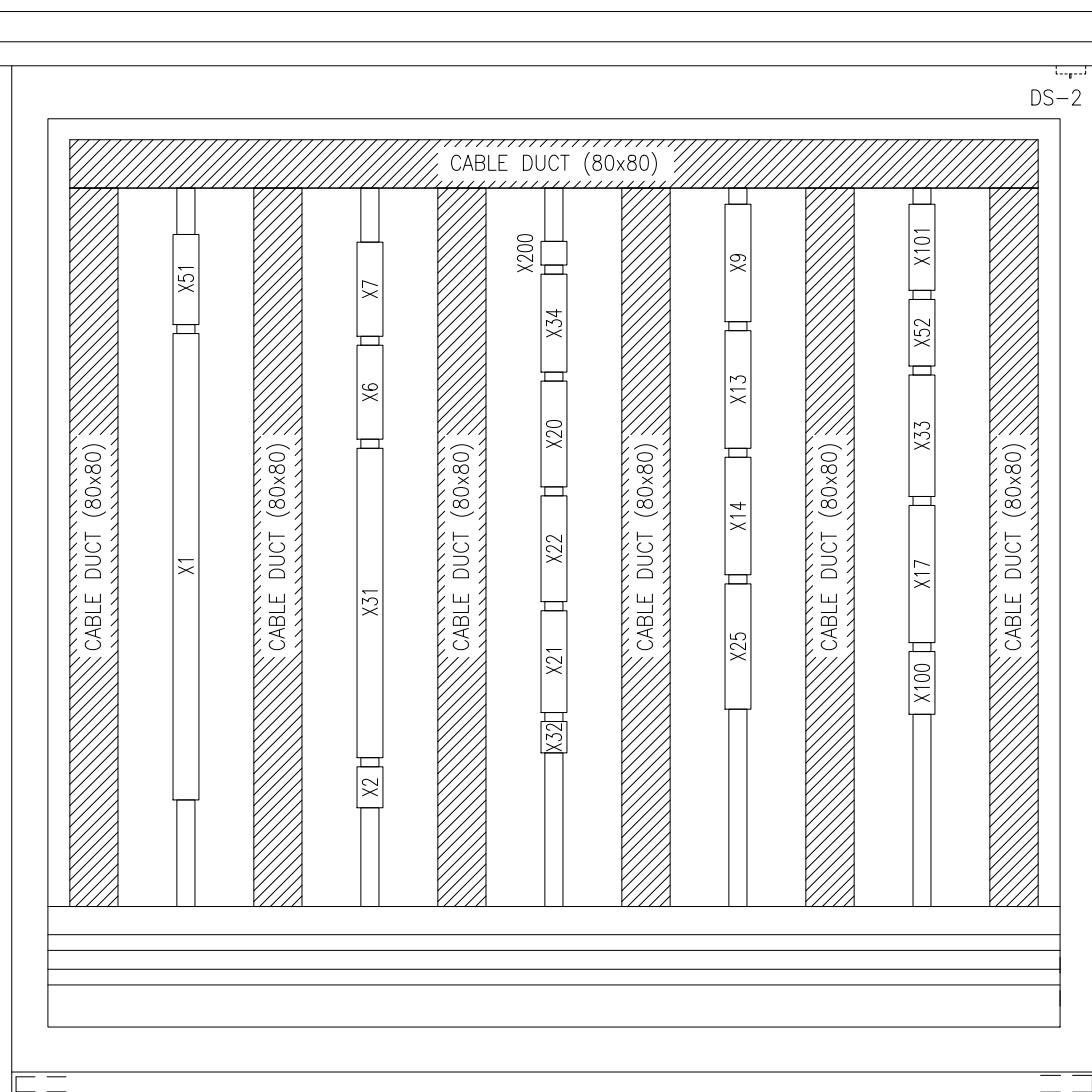


FRONT VIEW WITHOUT DOOR

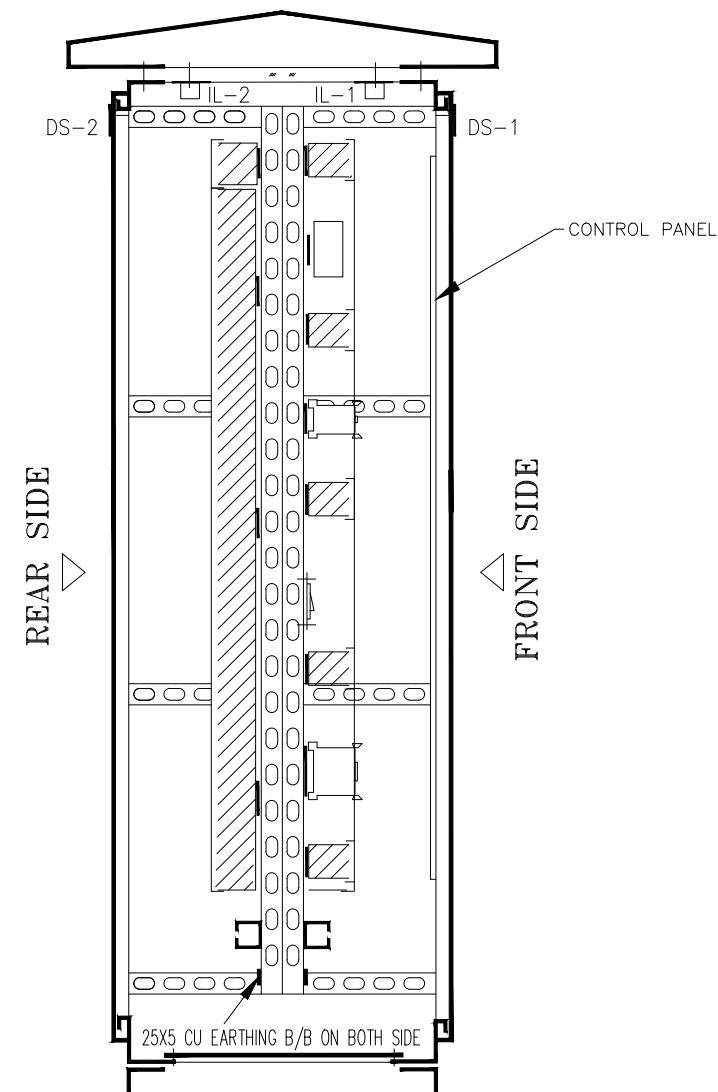
NOTES

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

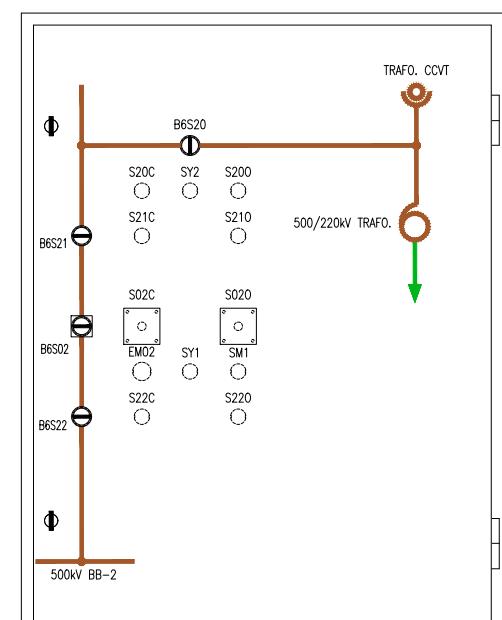
APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:	DWG# EPE/ENU-18/B61584		SHT: 02 OF 04
NAH	MSS	MUR	 EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	LAYOUT DIAGRAM 500kV LOCAL CONTROL CUBICAL TYPE =B06+S2	E P E S O L P v t . L t d. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT



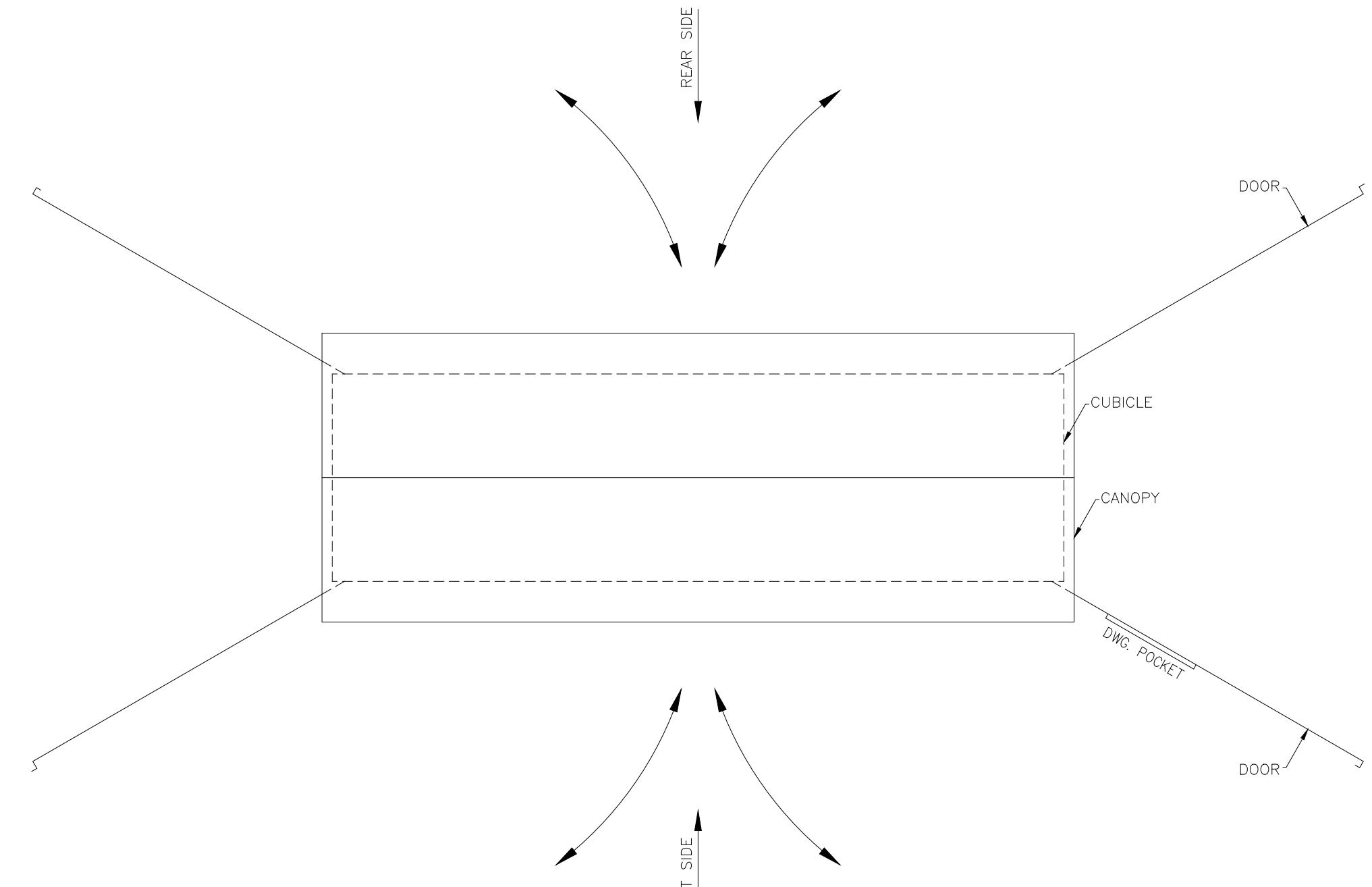
REAR VIEW WITHOUT DOOR



SECTION AB

CONTROL PANEL
FRONT VIEWNOTES

1. 500kV MIMIC COLOR ORANGE BROWN

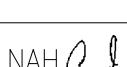
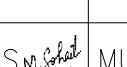
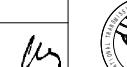


TOP VIEW
DOOR OPENING DETAIL

APPROVED	CHECKED	DRAWN	PROJECT:	TITLE:	DWG# EPE/ENU-18/B61584		SHT: 04 OF 04
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+S2	EPE SOL 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			
SR.	ITEM DESIGNATION		DESCRIPTION		QTY	TYPE	MAKE	COUNTRY OF ORIGIN	ORDERING INFORMATION	SHEET NO
A 1	F500, F503, F502		AC MCB, DOUBLE POLE, 6A, 240 VAC, WITH 1 C/O CONTACT		3	G60	GE	HUNGARY/POLAND	G62C06 + CAH(1)	A
A 2	F513, F510, F511, F512, F514		AC MCB, DOUBLE POLE, 10A, 240 VAC, WITH 1 C/O CONTACT		5	G60	GE	HUNGARY/POLAND	G62C10 + CAH(1)	A
B 3	F520		AC MCB, DOUBLE POLE, 16A, 240 VAC, WITH 1 C/O CONTACT		1	G60	GE	HUNGARY/POLAND	G62C16 + CAH(1)	B
B 4	F501		ELCB, DOUBLE POLE, 16A, 30mA, 240 VAC, WITH 1 C/O CONTACT		1	DM100	GE	HUNGARY/POLAND	DM100C16/030 + CAH(1)	B
B 5	F101,F102,F202,F201 F301,F302,F303		DC MCB, DOUBLE POLE, 10A, 220 VDC, WITH 1 C/O CONTACT		7	EP100	GE	HUNGARY/POLAND	EP102UCC10 + CAH(1)	B
c 6	K1 TO K39, KT, KR, KL, KS, KM, K10A, K2A, KDC1 TO KDC5		AUXILIARY RELAY, 220VDC, WITH 4 C/O CONTACTS		51	PRC	GE	HUNGARY/POLAND	PRC4M40DCML	c
c 7	K40, K41, K42, KAC		AUXILIARY RELAY, 240 VAC, WITH 4 C/O CONTACTS		4	PRC	GE	HUNGARY/POLAND	PRC4M40ANL	c
c 8	SY1, SY2		2-POSITION SELECTOR SWITCH, KEY OPERATED FOR LOCAL-REMOTE MODE, WITH 4NO+4NC CONTACT, COLOR BLACK		2	YS-AK	YONGSUNG	SOUTH KOREA	YS-AK-2-2-44-D	c
c 9	SM1		2-POSITION SELECTOR SWITCH, KEY OPERATED FOR SERVICE / MAINTENANCE SELECTION, WITH 4NO+4NC CONTACT, COLOR BLACK		1	YS-AK	YONGSUNG	SOUTH KOREA	YS-AK-2-2-44-D	c
D 10	S02C, S020		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-	D
D									4-A-0-20-B-W	
D 11	S200, S210, S220		PUSH BUTTON, WITH 4NO CONTACT, COLOR GREEN		3	YS-AP1	YONGSUNG	SOUTH KOREA	YS-AP1-2-40-G-D-W	D
D 12	S20C, S21C, S22C		PUSH BUTTON, WITH 4NO CONTACT, COLOR RED		3	YS-AP1	YONGSUNG	SOUTH KOREA	YS-AP1-2-40-R-D-W	D
E 13	EM02		EMERGENCY PUSH BUTTON, WITH 8NO CONTACT, COLOR RED		1	YS-AP1	YONGSUNG	SOUTH KOREA	YS-AP1-3-80-R-D-W	E
E 14	IL1, IL2		CUBICLE LIGHTING, 5W, 240VAC		2	YS-T8	YONGSUNG	SOUTH KOREA	YS-T8-30-5W	E
E 15	DS1, DS2		DOOR SWITCH WITH COVER		2	YSP33+YSMS	YONGSUNG	SOUTH KOREA	YSP3315GWB+YSMS-C	E
F 16	B6S02		SEMAPHORE INDICATOR FOR CIRCUIT BREAKER POSITION INDICATION, 220 VDC, SQUARE TYPE		1	SPS-30S	FUJI	JAPAN	SPS-30S-DC22	F
F 17	B6S20, B6S21, B6S22		SEMAPHORE INDICATOR FOR ISOLATOR POSITION INDICATION, 220 VDC, ROUND TYPE		3	SPR-30S	FUJI	JAPAN	SPR-30S-DC22	F
F 18	KCT		TIMER RELAY, 220VDC, 5 SEC, 2 C/O CONTACTS		1	AT8N	AUTONIC	SOUTH KOREA	AT8N-220VDC-5S	F
F 19	TH+HS		THERMOSTAT AND HUMIDSTAT		1	ELH220	ELAB	PAKISTAN	ELH220	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+S2	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61585 DATE: 07.03.2019	SHT: 02 OF 04			
NAH	MSS	MUR							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 20	SH	SPACE HEATER	1	ELH220	ELAB	PAKISTAN	ELH220	A
A 21	TPS	240 VAC, 16A, THREE PIN SOCKET OUTLET	1		LEAR	CHINA		
A 22	X1	TERMINAL BLOCKS FOR CT CIRCUITS WITH SHORTING & DISCONNECTING FACILITY	91	SCB-6	CABUR	ITLAY		
B 23	X2	TERMINAL BLOCK FOR VT CIRCUIT INPUT	8	SCB-6	CABUR	ITLAY		
B 24	X101	TERMINAL BLOCKS FOR DC SUPPLY CIRCUITS	22	CBD-4	CABUR	ITLAY		B
B 25	X31	TERMINAL BLOCKS FOR CONTROL CIRCUITS	79	CBD-4	CABUR	ITLAY		
B 26	X51	TERMINAL BLOCKS FOR CB CLOSING CIRCUITS-1	23	CBD-4	CABUR	ITLAY		
B 27	X52	TERMINAL BLOCKS FOR CB CLOSING CIRCUITS-2	17	CBD-4	CABUR	ITLAY		
c 28	X6	TERMINAL BLOCKS FOR TRIP CIRCUIT-1	24	CBD-4	CABUR	ITLAY		c
c 29	X7	TERMINAL BLOCKS FOR TRIP CIRCUIT-2	24	CBD-4	CABUR	ITLAY		
c 30	X32	TERMINAL BLOCKS FOR MOTOR DRIVE CIRCUITS	8	CBD-4	CABUR	ITLAY		
c 31	X33	TERMINAL BLOCKS FOR POSITION INDICATION	31	CBD-4	CABUR	ITLAY		
D 32	X21	TERMINAL BLOCKS FOR DISCONNECTOR CONTROL	26	CBD-4	CABUR	ITLAY		D
D 33	X22	TERMINAL BLOCKS FOR DISCONNECTOR CONTROL	27	CBD-4	CABUR	ITLAY		
D 34	X20	TERMINAL BLOCKS FOR ISOLATOR CONTROL	27	CBD-4	CABUR	ITLAY		
E 35	X34	TERMINAL BLOCKS FOR CB ALARMS	25	CBD-4	CABUR	ITLAY		
E 36	X9	TERMINAL BLOCKS FOR ANNUNCIATION	30	CBD-4	CABUR	ITLAY		E
E 37	X13	TERMINAL BLOCKS FOR EVENT RECORDER	30	CBD-4	CABUR	ITLAY		
E 38	X14	TERMINAL BLOCKS FOR SCADA	30	CBD-4	CABUR	ITLAY		
F 39	X25	TERMINAL BLOCKS FOR SYNCH. SELECTION	32	CBD-4	CABUR	ITLAY		
F 40	X100	TERMINAL BLOCKS FOR AC DISTRIBUTION CIRCUITS	16	CBD-4	CABUR	ITLAY		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+S2	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61585 DATE: 07.03.2019	SHT: 03 OF 04 AS BUILT REV: 0	
NAH Q.	MSS M.	MUR B.						

1	2	3	4	5	6	7	8	
SR.	ITEM DESIGNATION	DESCRIPTION	QTY	TYPE	MAKE	COUNTRY OF ORIGIN	ORDERING INFORMATION	SHEET NO
A 41	X17	TERMINAL BLOCKS FOR COMPARTMENT HEATING	35	CBD-4	CABUR	ITLAY		A
A 42	X200	TERMINAL BLOCKS FOR TELEPHONE	6	CBD-4	CABUR	ITLAY		A
B 43	TLS	TELEPHONE SOCKET	1		LOCAL			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+S2	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61585 DATE: 07.03.2019	SHT: 04 OF 04 AS BUILT REV: 0	
NAH 	MSS 	MUR 						

SCHEMATIC DIAGRAM OF 500kV LOCAL CONTROL CUBICLE TYPE =B06+S2

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+S2	DWG# EPE/ENU-18/B61586	SHT: 01 OF 41
NAH 	MSS 	MUR 			 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

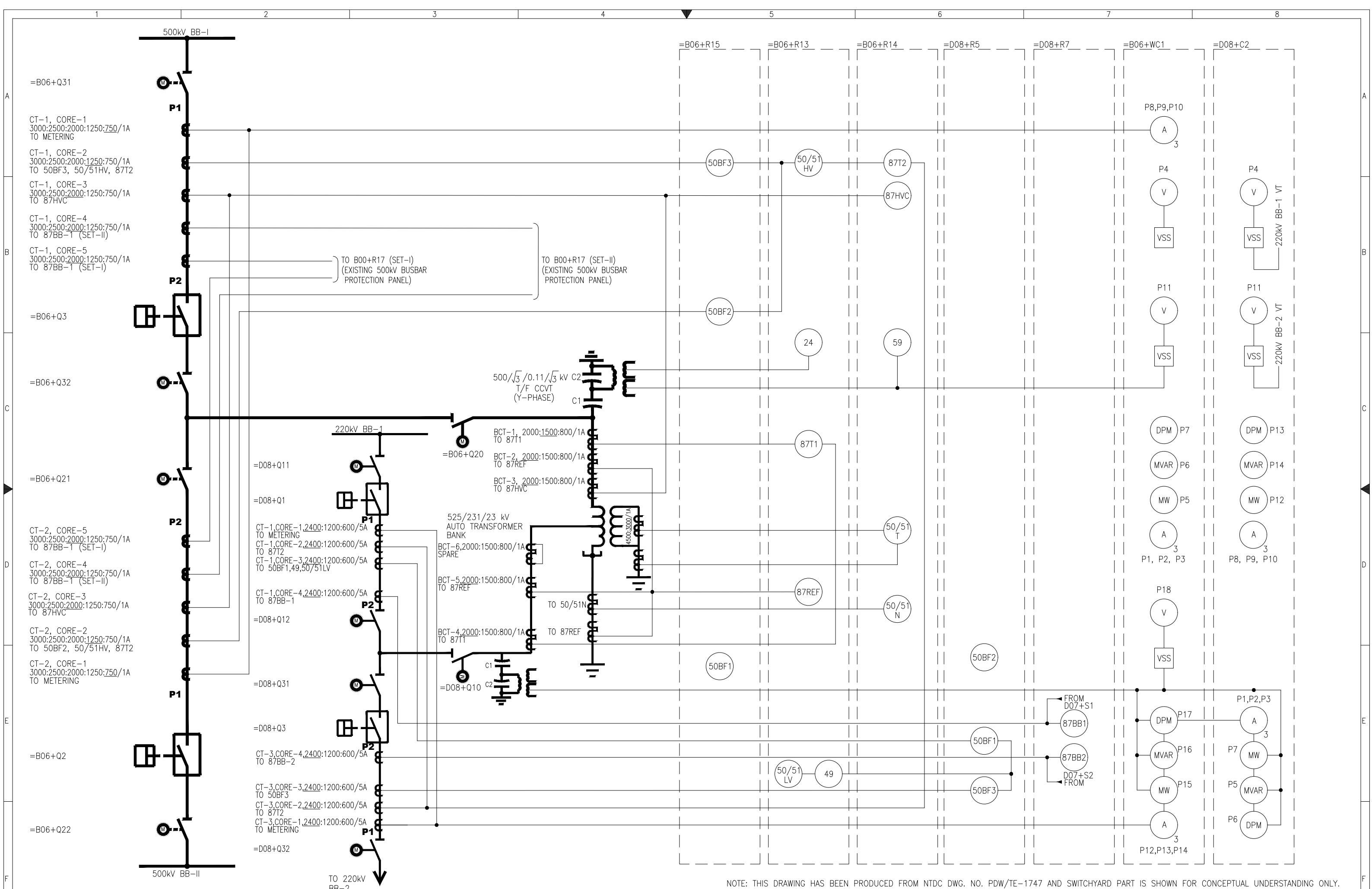
DESCRIPTION	SHEET NO	DESCRIPTION	SHEET NO
COVER SHEET	01	=B06+Q21 DISCONNECTOR CONTROL	22
LIST OF CONTENTS	02	=B06+Q22 DISCONNECTOR CONTROL	23
LIST OF SYMBOLS AND DESIGNATION	03	=B06+Q20 DISCONNECTOR CONTROL	24
PROPOSED CT/VT CONNECTION	04	CB/DS STATUS	25
CT CIRCUIT	05	CB/DS STATUS	26
CT CIRCUIT	06	POSITION INDICATION FOR CONTROL PANEL	27
CT CIRCUIT	07	CB ALARMS	28
CT CIRCUIT	08	AC SUPPLY FAIL INDICATION CIRCUIT	29
CT CIRCUIT	09	VT MCB TRIP	30
CT CIRCUIT	10	SIGNALING FOR ANNUNCIATION	31
CT CIRCUIT	11	SIGNALING FOR ANNUNCIATION	32
CT CIRCUIT	12	SIGNALING FOR EVENT RECORDER	33
VT CIRCUIT	13	SIGNALING FOR EVENT RECORDER	34
DC SUPPLY DISTRIBUTION	14	SIGNALING FOR SCADA	35
CB AND DISCONNECTOR CONTROL	15	SIGNALING FOR SCADA	36
B06Q2 CLOSING CIRCUIT	16	SYNC. SELECTION	37
B06Q2 CLOSING CIRCUIT	17	AC DISTRIBUTION CIRCUIT	38
B06Q2 TRIP CIRCUIT-1	18	AC DISTRIBUTION CIRCUIT	39
B06Q2 TRIP CIRCUIT-2	19	AC DISTRIBUTION CIRCUIT	40
MOTOR DRIVE CIRCUIT	20	TELEPHONE SOCKET	41
POSITION INDICATION CIRCUIT	21		

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+S2	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/B61586	SHT: 02 OF 41
NAH Q.	MSS M. Sohail	MUR Ilyas				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		

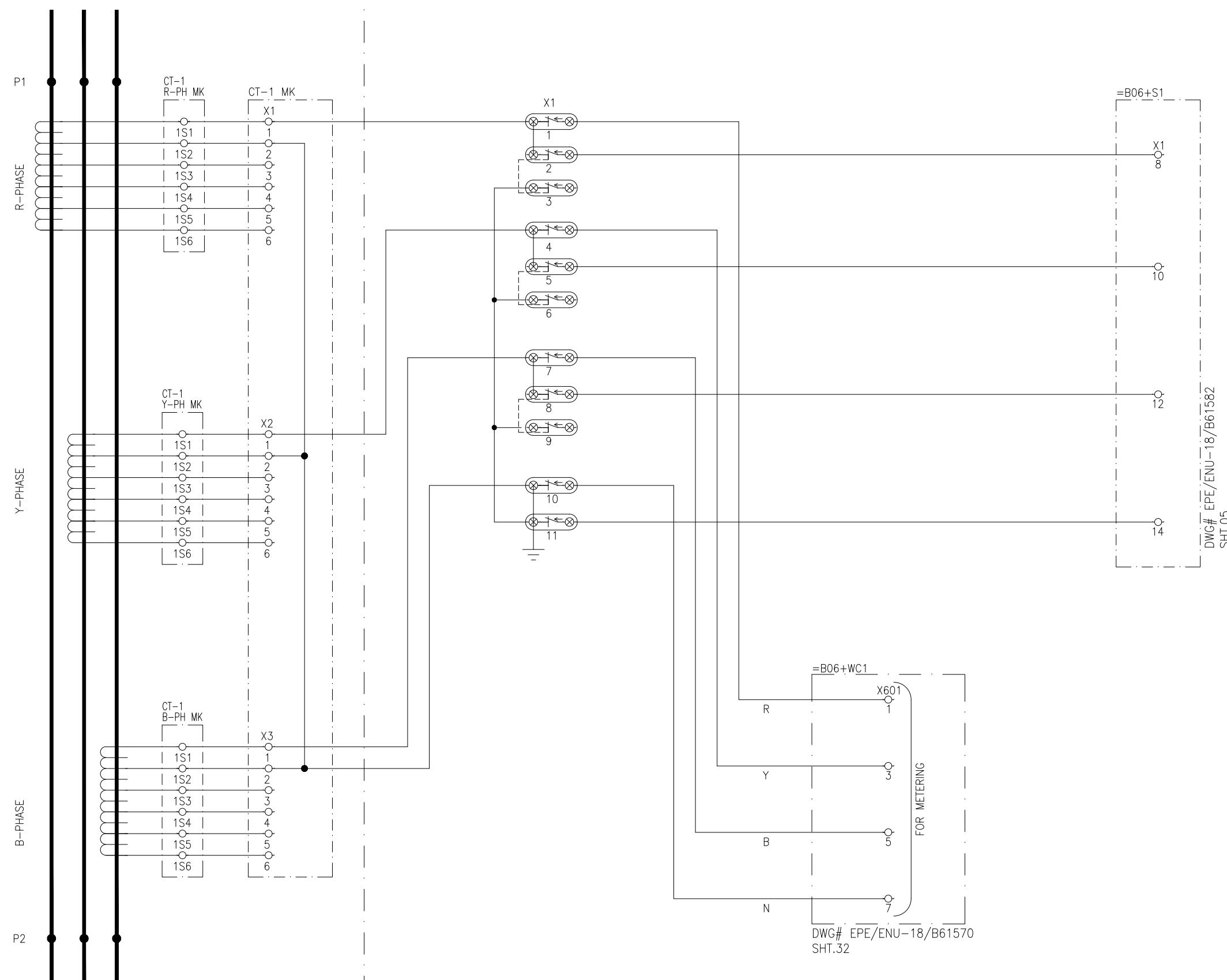


NOTE: THIS DRAWING HAS BEEN PRODUCED FROM NTDC DWG. NO. PDW/TE-1747 AND SWITCHYARD PART IS SHOWN FOR CONCEPTUAL UNDERSTANDING ONLY.

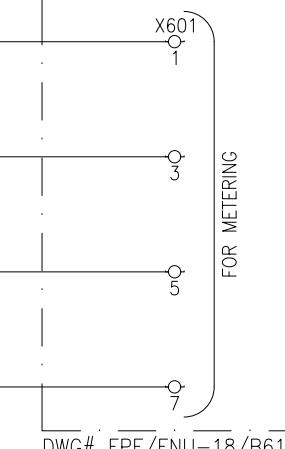
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SINGLE LINE DIAGRAM 500kV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 04 OF 41
NAH Q.	MSS M. Sohail	MUR Iy		E 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

SWITCH YARD.

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



DWG# EPE/ENU-18/B61582
SHT.05



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:
CT CIRCUIT
500kV LOCAL CONTROL CUBICAL TYPE =B06+S2



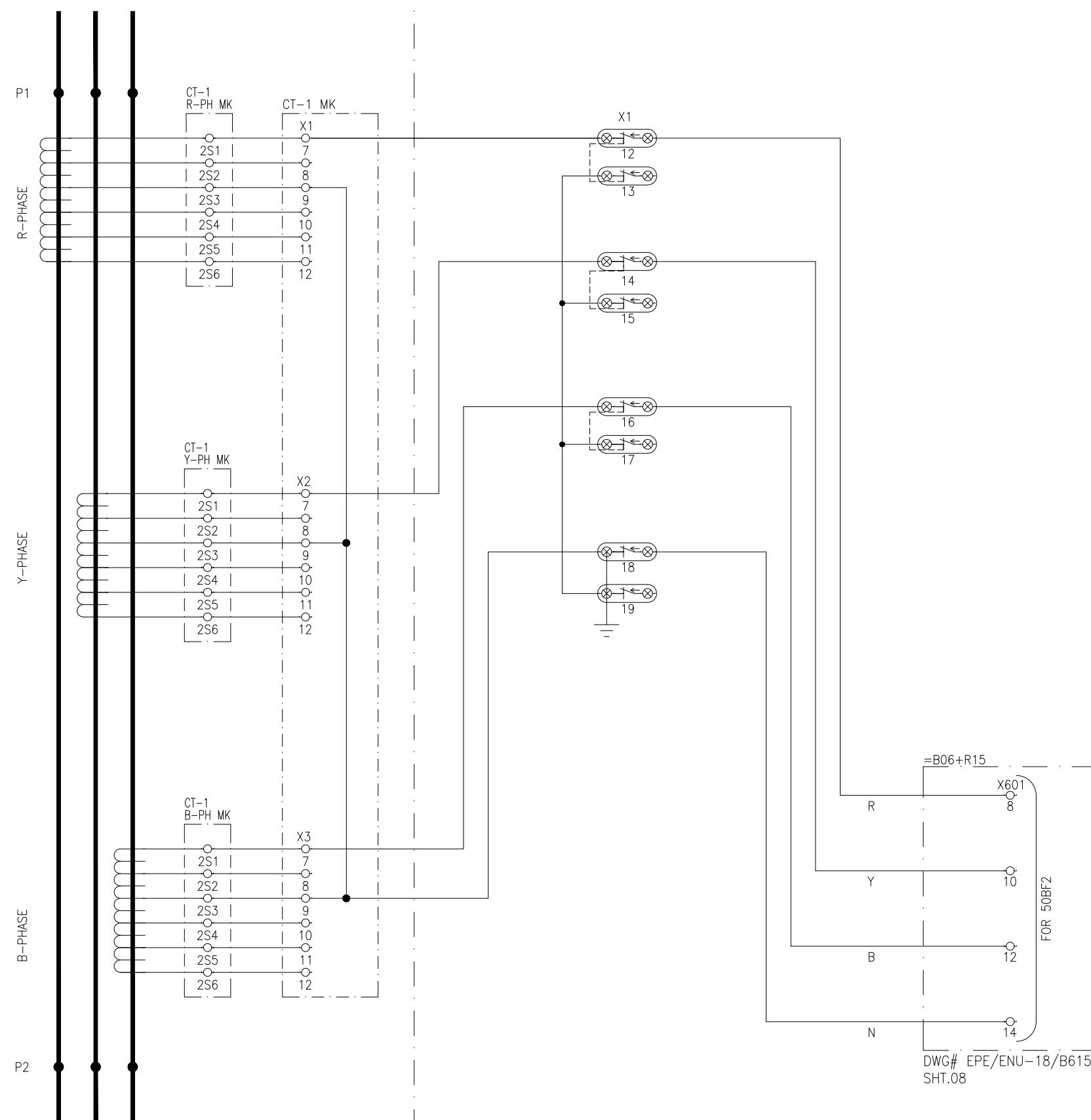
EPESOL Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

DWG# EPE/ENU-18/B61586	SHT: 05 OF 41
DATE: 07.03.2019	AS BUILT

REV: 0

SWITCH YARD.

=B06, CT-1, CORE-2
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+S2



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

DWG# EPE/ENU-18/B61586 SHT: 06 OF 41

DATE: 07.03.2019

AS BUILT

REV: 0

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:
CT CIRCUIT
500kV LOCAL CONTROL CUBICAL TYPE =B06+S2

DWG# EPE/ENU-18/B61586 SHT: 06 OF 41

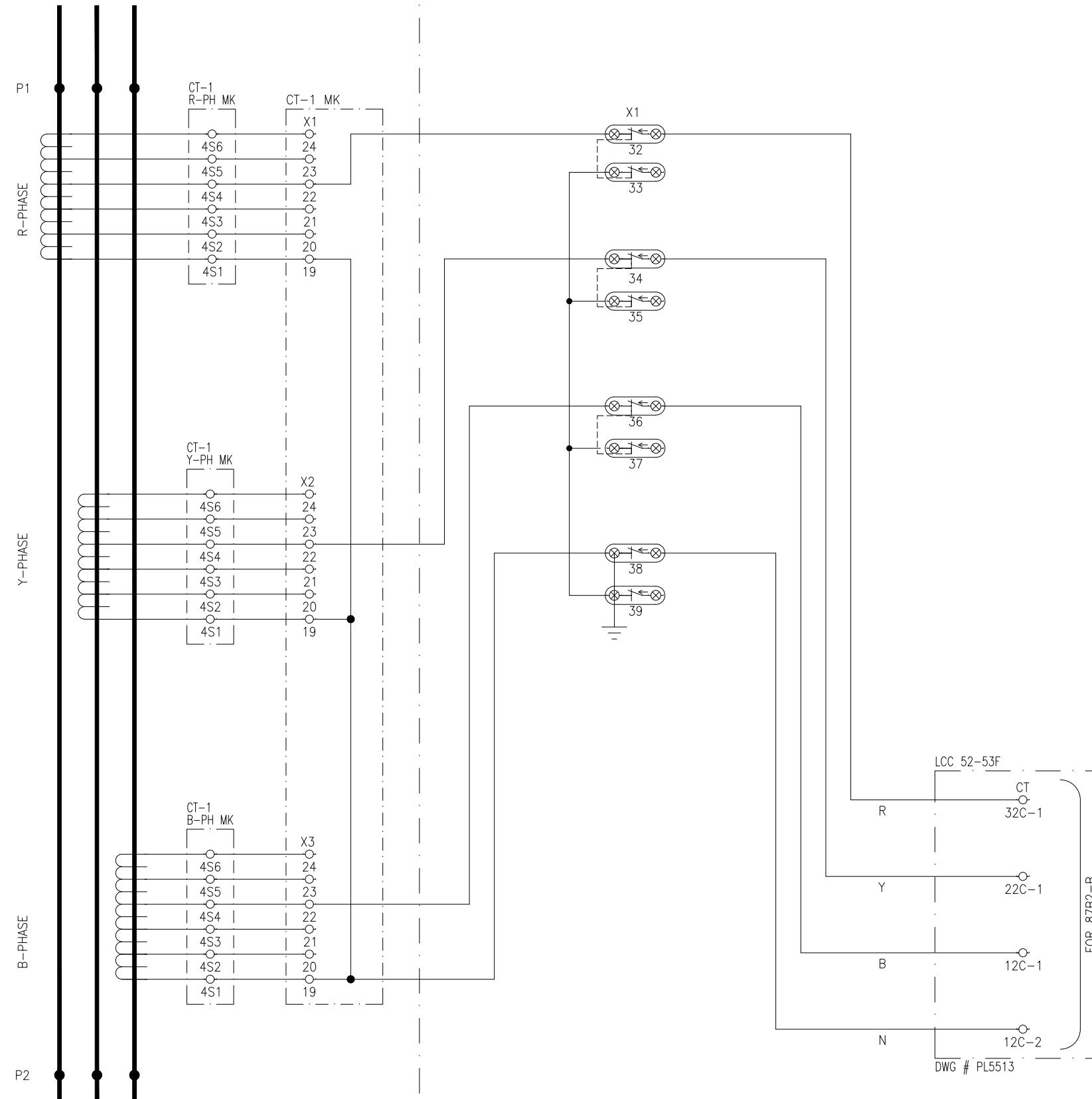
DATE: 07.03.2019

AS BUILT

REV: 0

SWITCH YARD.

=B06, CT-1, CORE-4
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+S2



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

DWG# EPE/ENU-18/B61586

SHT: 08 OF 41

APPROVED

CHECKED

DRAWN



NAH [Signature]

MSS [Signature]

MUR [Signature]

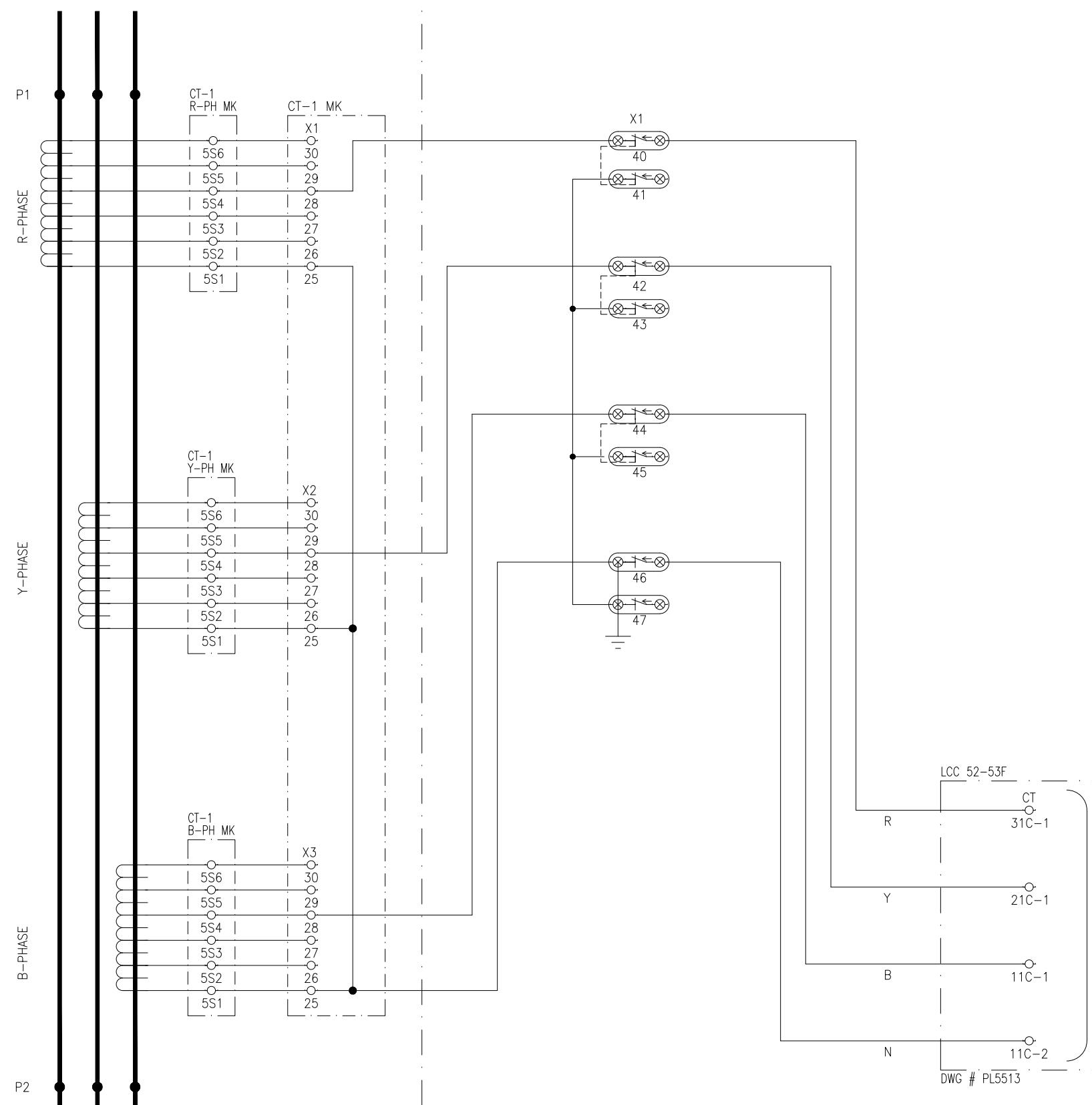
DATE: 07.03.2019

AS BUILT

REV: 0

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+S2



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

DWG# EPE/ENU-18/B61586

SHT: 09 OF 41

APPROVED

CHECKED

DRAWN

NAH

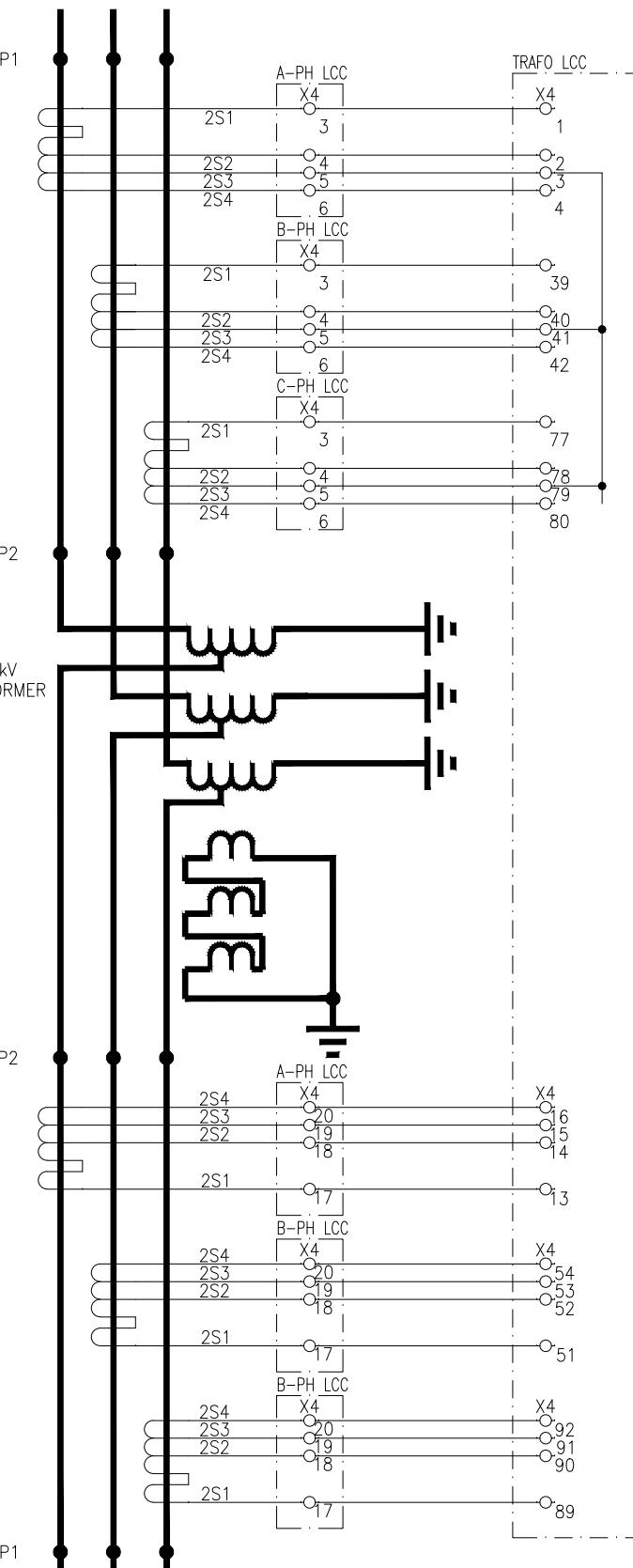
MSS

MUR

DATE: 07.03.2019

AS BUILT

REV: 0

SWITCH YARDHV BCT CORE-2
2000:1500:800/1A525/231/23 kV
AUTO TRANSFORMER BANKLV BCT CORE-2
2000:1500:800/1ANOTE:
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+S2



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

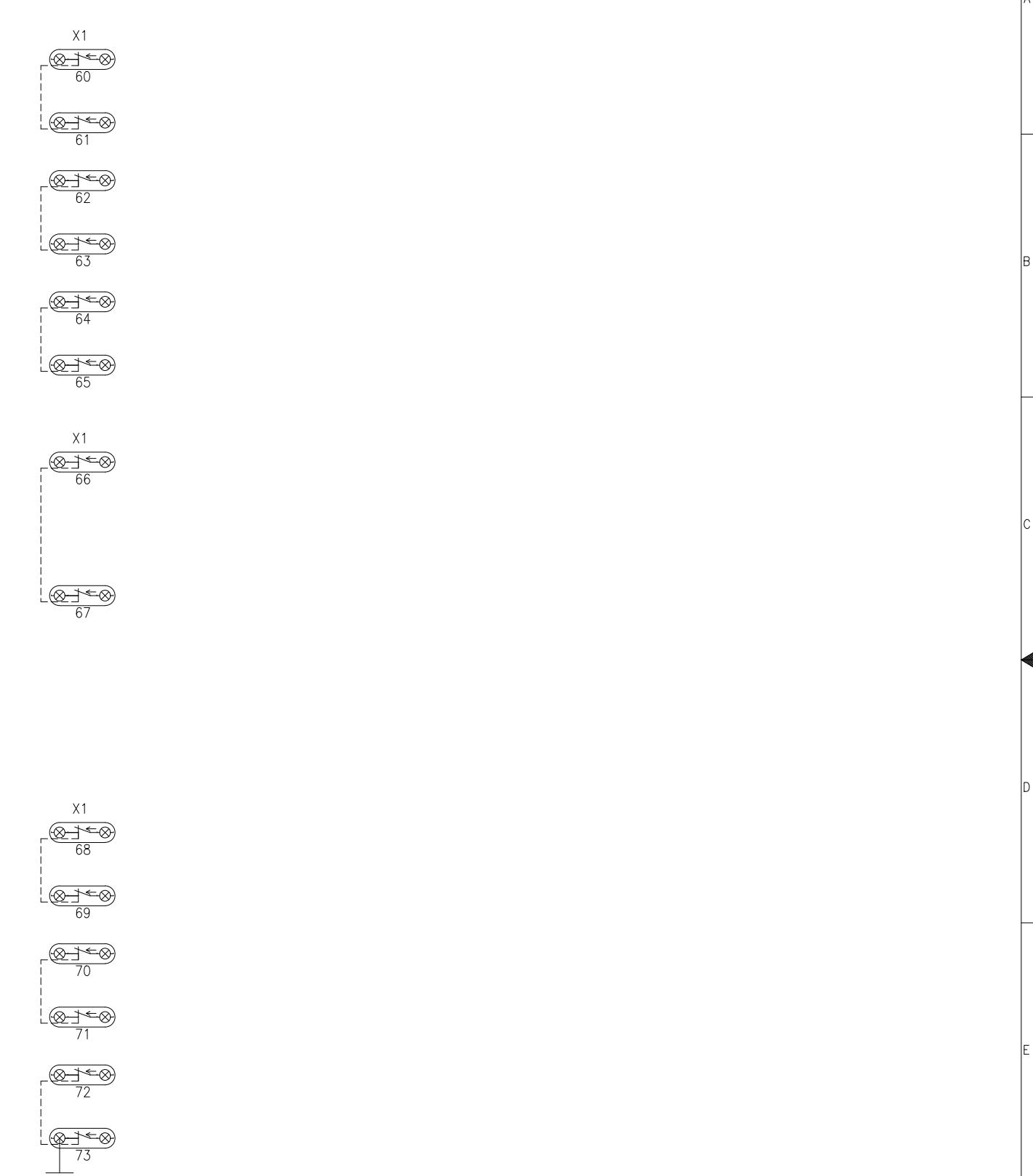
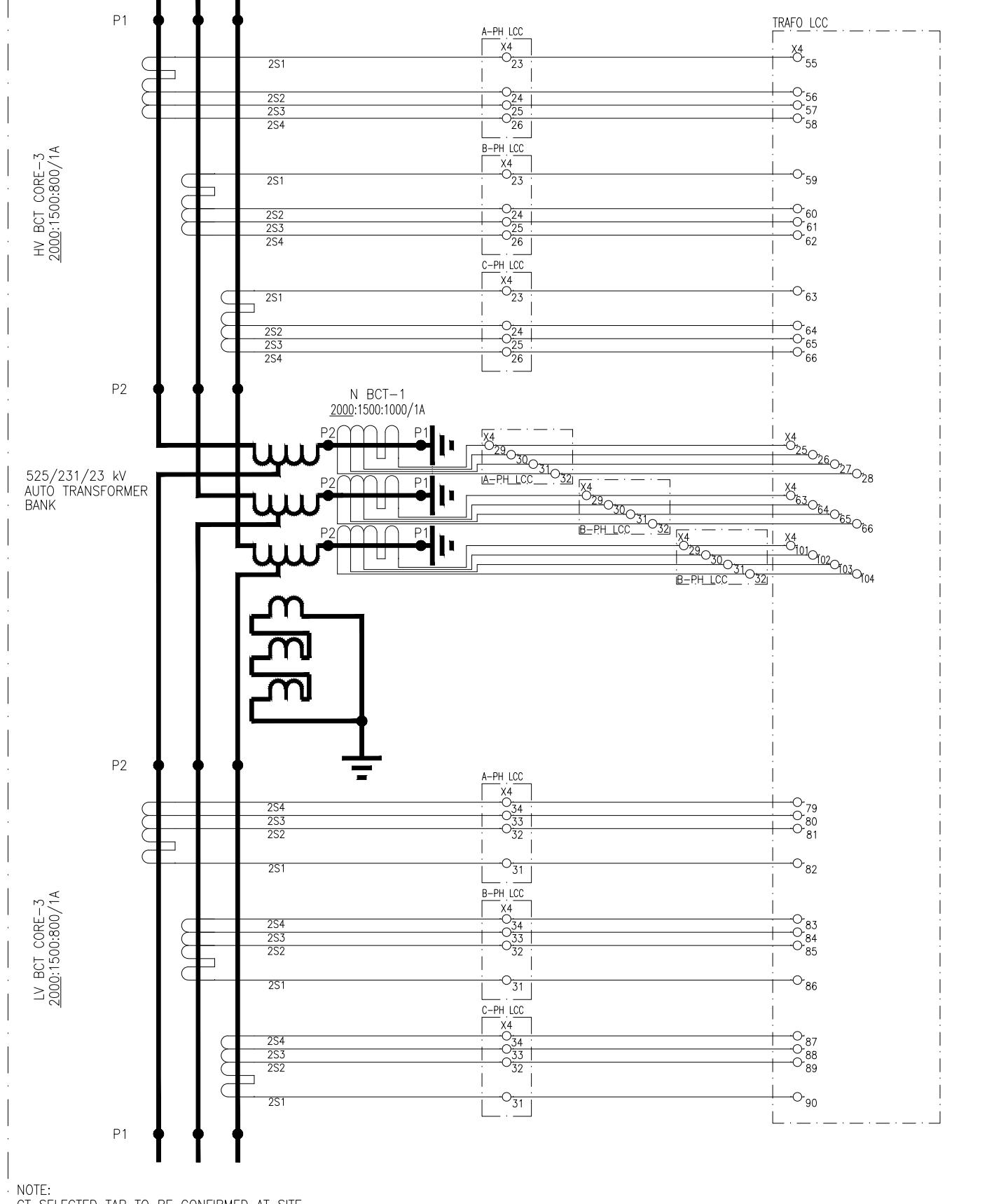
DWG# EPE/ENU-18/B61586

DATE: 07.03.2019

AS BUILT

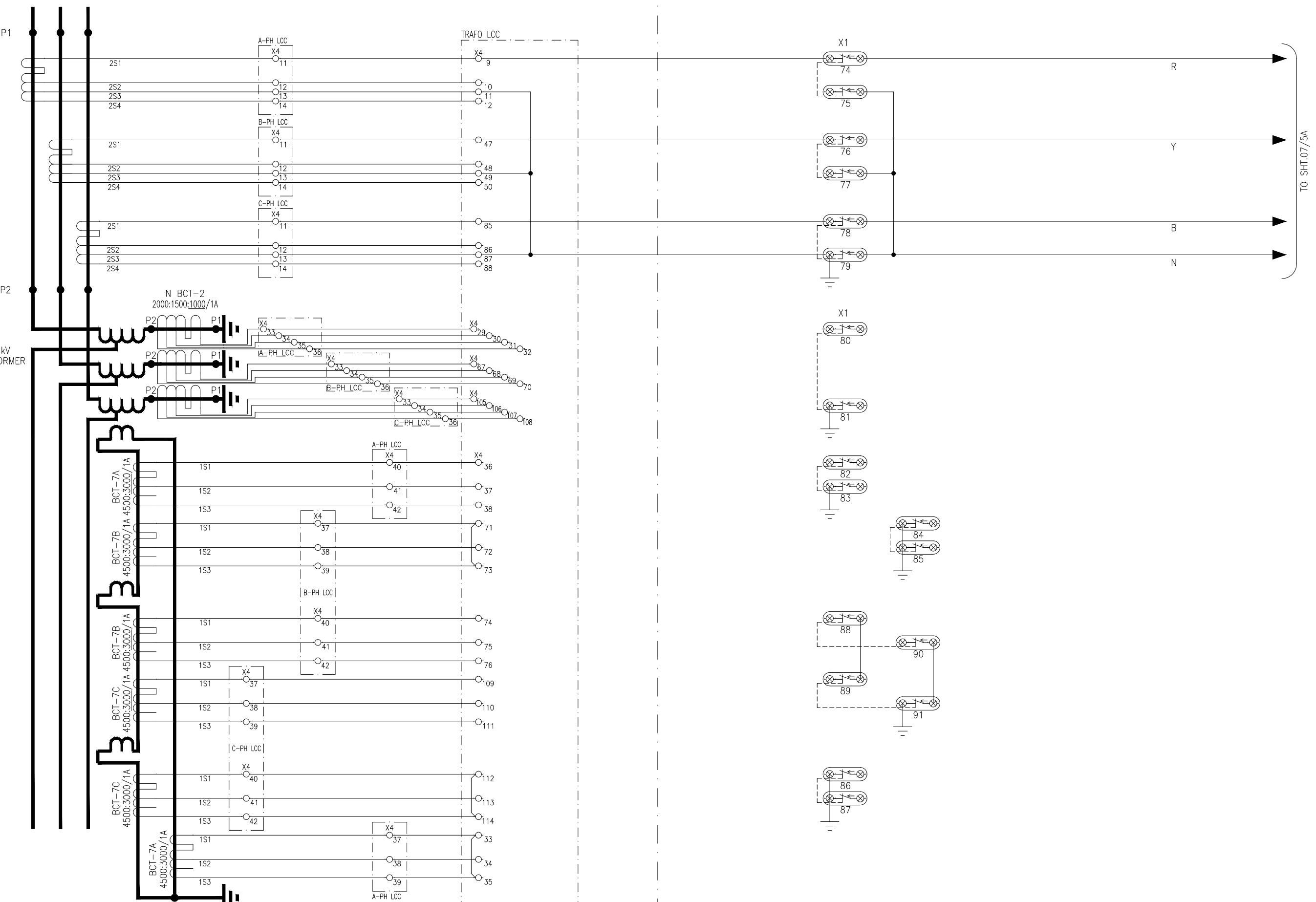
REV: 0

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	DWG# EPE/ENU-18/B61586	SHT: 10 OF 41
NAH	MSS	MUR		500kV LOCAL CONTROL CUBICAL TYPE =B06+S2		

SWITCH YARD

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: CT CIRCUIT 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 11 OF 41
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 YARDHV BCT CORE-4
2000:1500:800/1A525/231/23 KV
AUTO TRANSFORMER BANKNOTE:
CT SELECTED TAP TO BE CONFIRMED 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:

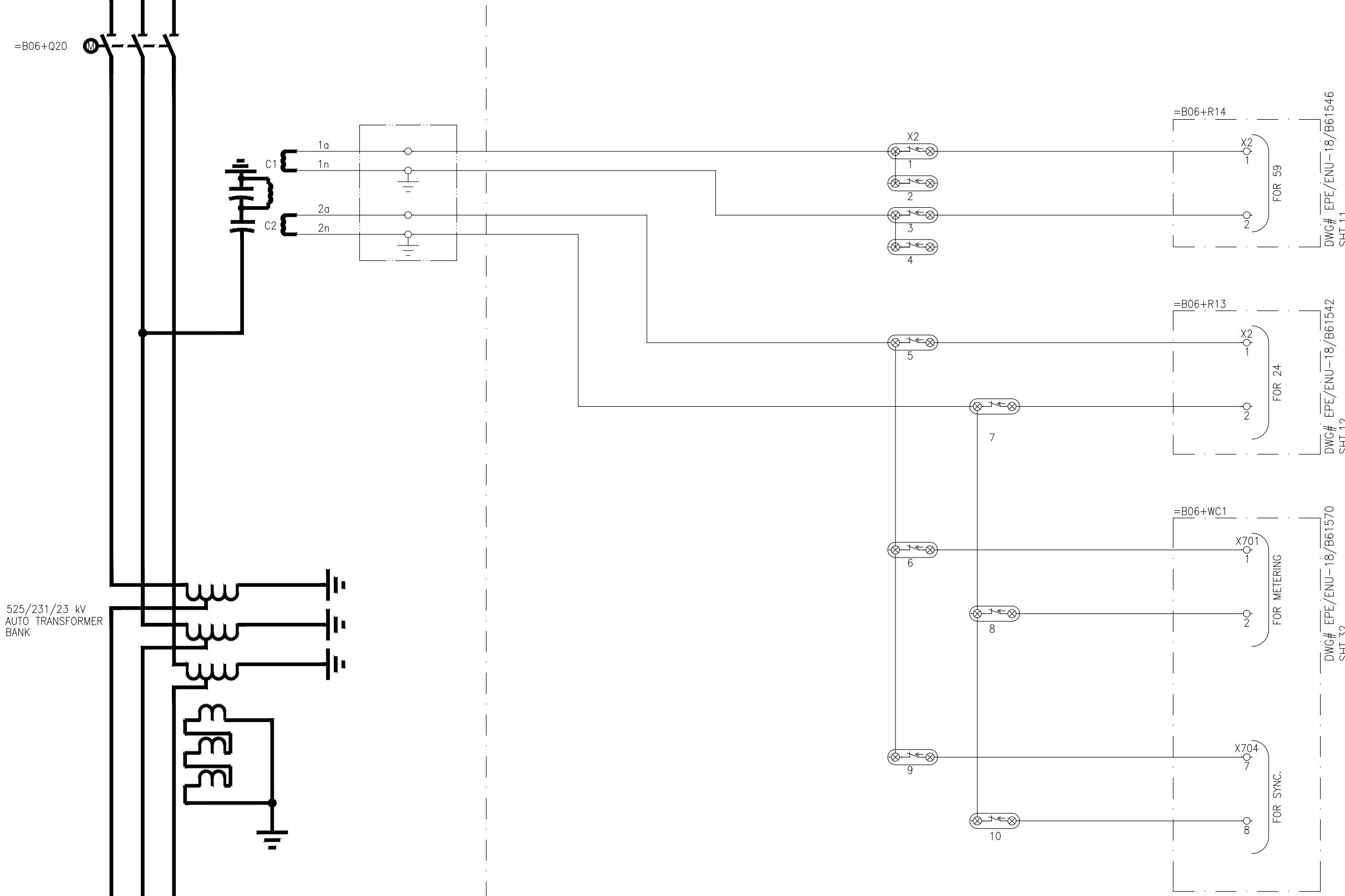
CT CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S2

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

DWG# EPE/ENU-18/B61586 SHT: 12 OF 41

DATE: 07.03.2019 AS BUILT REV: 0

SWITCH YARD
=B06+Q31

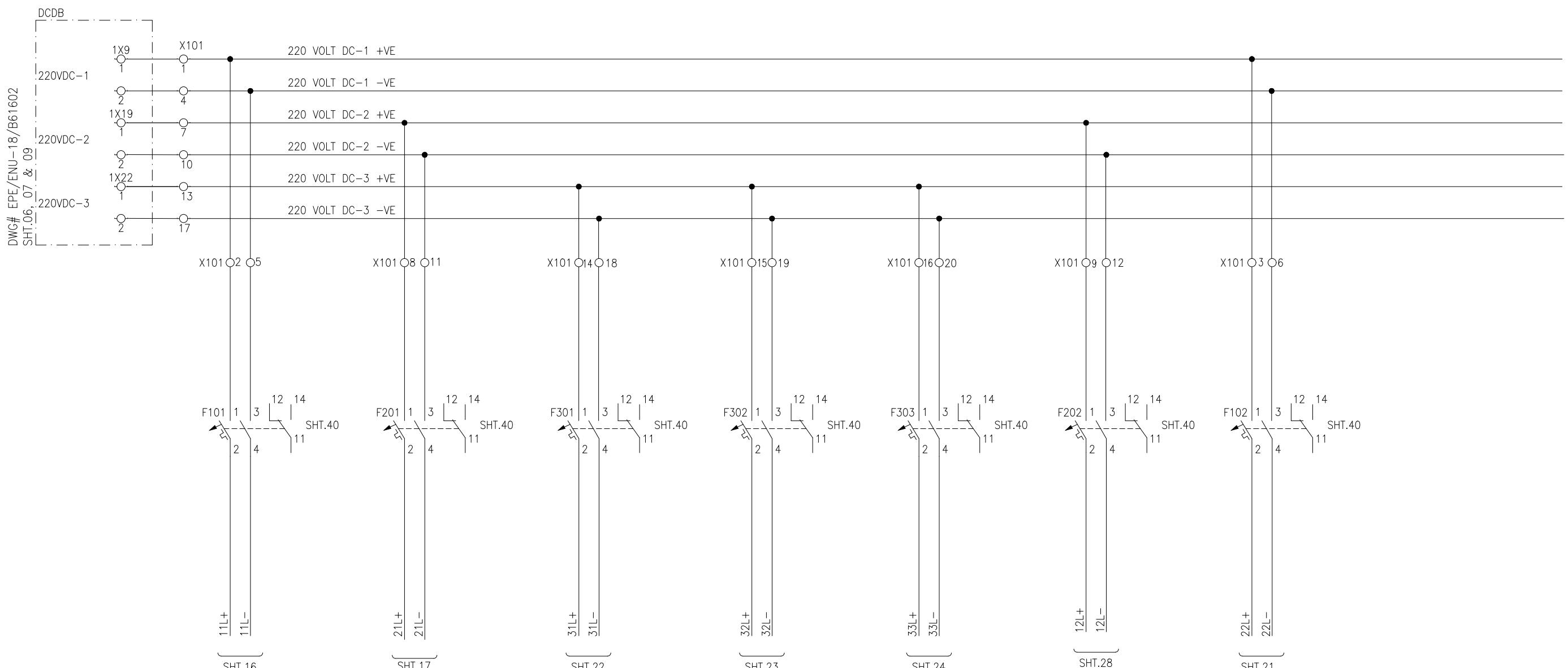


APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: VT CIRCUIT 500kV LOCAL CONTROL CUBICAL TYPE =B06+S2	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 13 OF 41
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT

CB CLOSING &
TRIP CCT-1CB CLOSING &
TRIP CCT-2DISCONNECTOR
=B06+Q21
MOTOR SUPPLYDISCONNECTOR
=B06+Q22
MOTOR SUPPLYDISCONNECTOR
=B06+Q20
MOTOR SUPPLYPOSITION
INDICATIONALARMS
SIGNALLING

A

A

LEGEND

DES:	DESCRIPTION	TYPE	MAKE
FX	TWO POLE, 10Amp MCB,s	EP-100	GE

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: DC SUPPLY DISTRIBUTION 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 14 OF 41
NAH	MSS	MUR		EPE SOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT REV: 0

CIRCUIT BREAKER
=B06+Q2

ON OFF

DISCONNECTOR
=B06+Q21

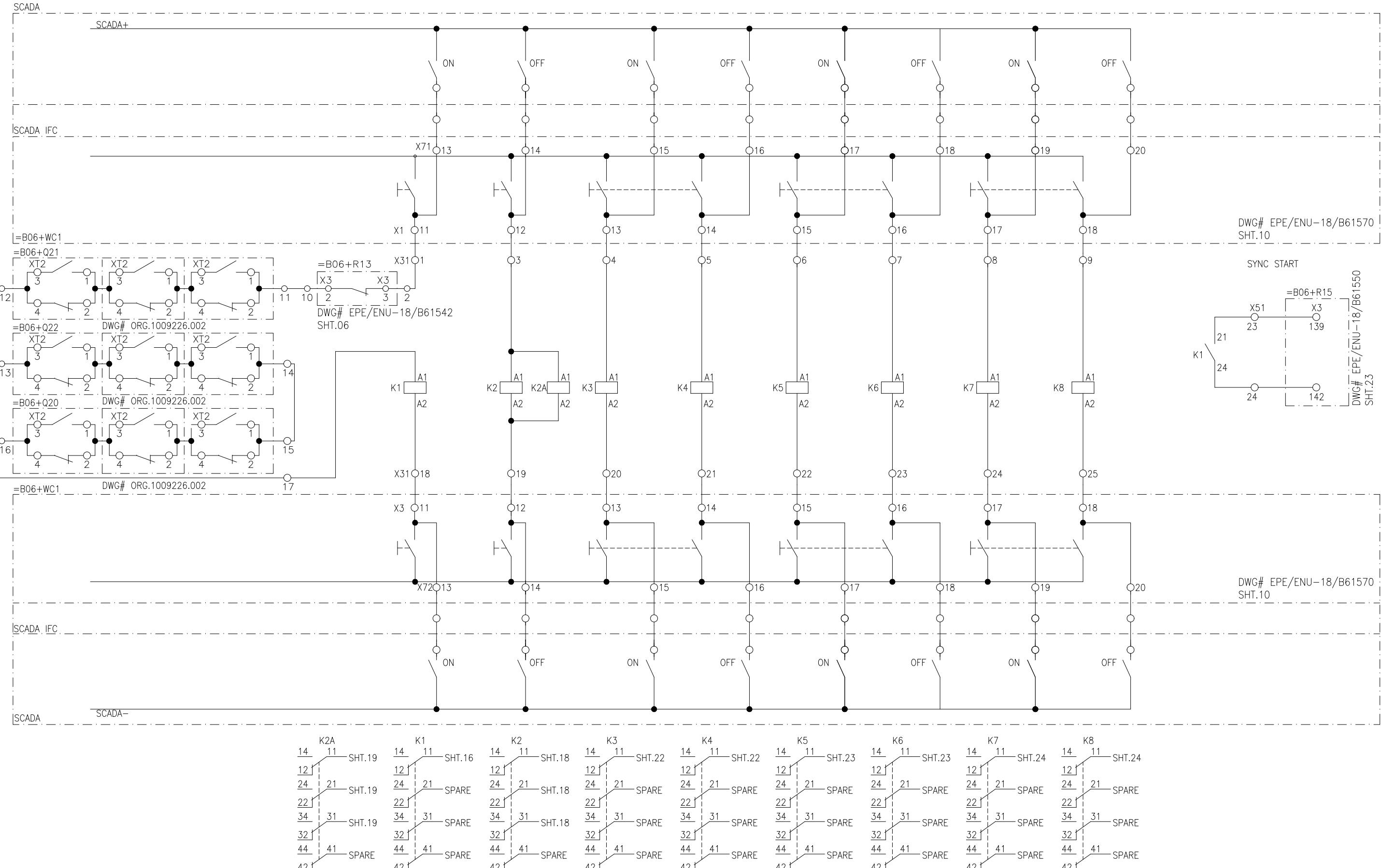
ON OFF

DISCONNECTOR
=B06+Q22

ON OFF

TRAFO DISCONNECTOR
=B06+Q20

ON OFF



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+S2



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

DWG# EPE/ENU-18/B61586 SHT: 15 OF 41
DATE: 07.03.2019 AS BUILT REV: 0



1

2

3

4

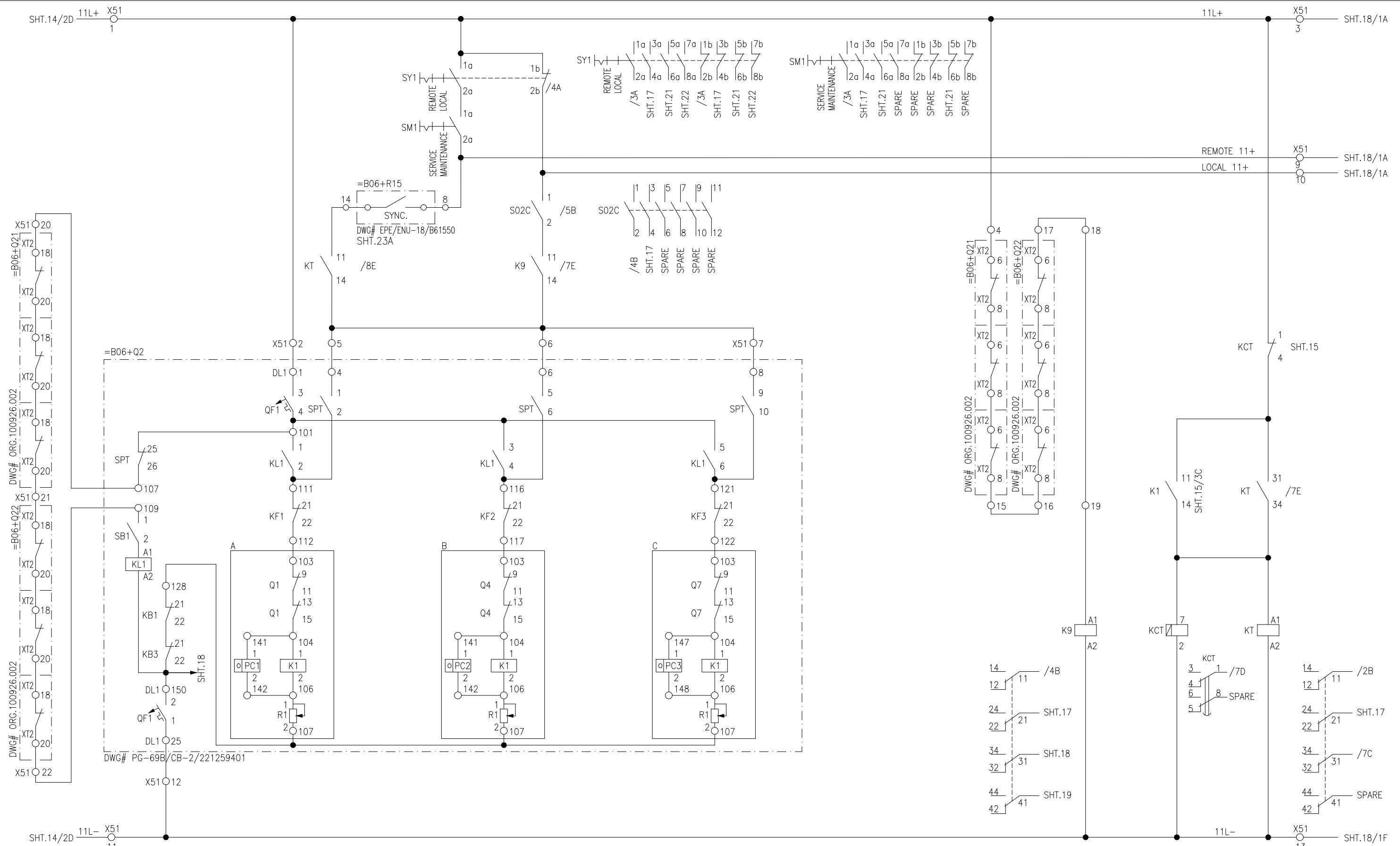
5

6

7

8

500KV CB CLOSING CIRCUIT-1
REMOTE LOCAL



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

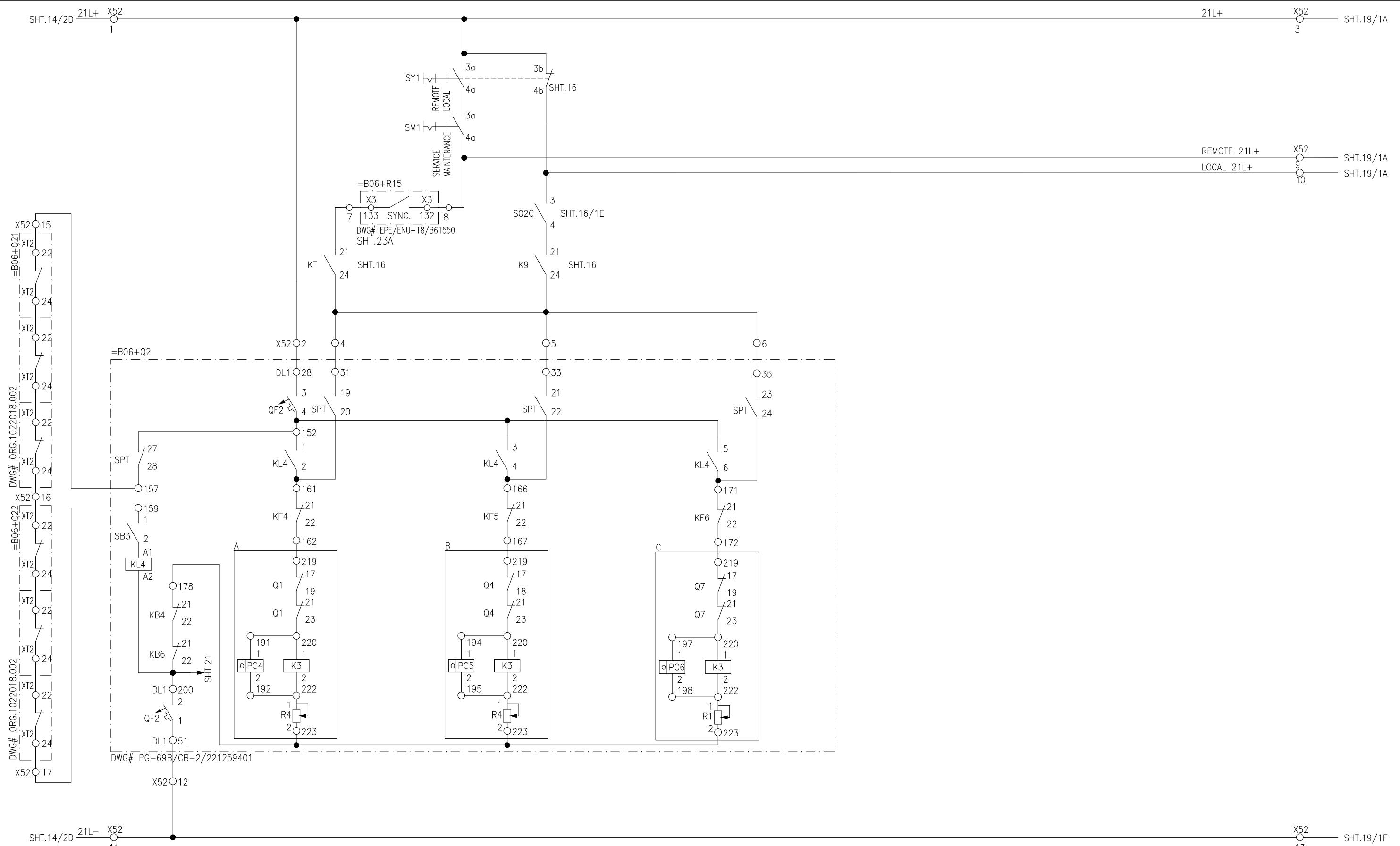


PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018
FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS

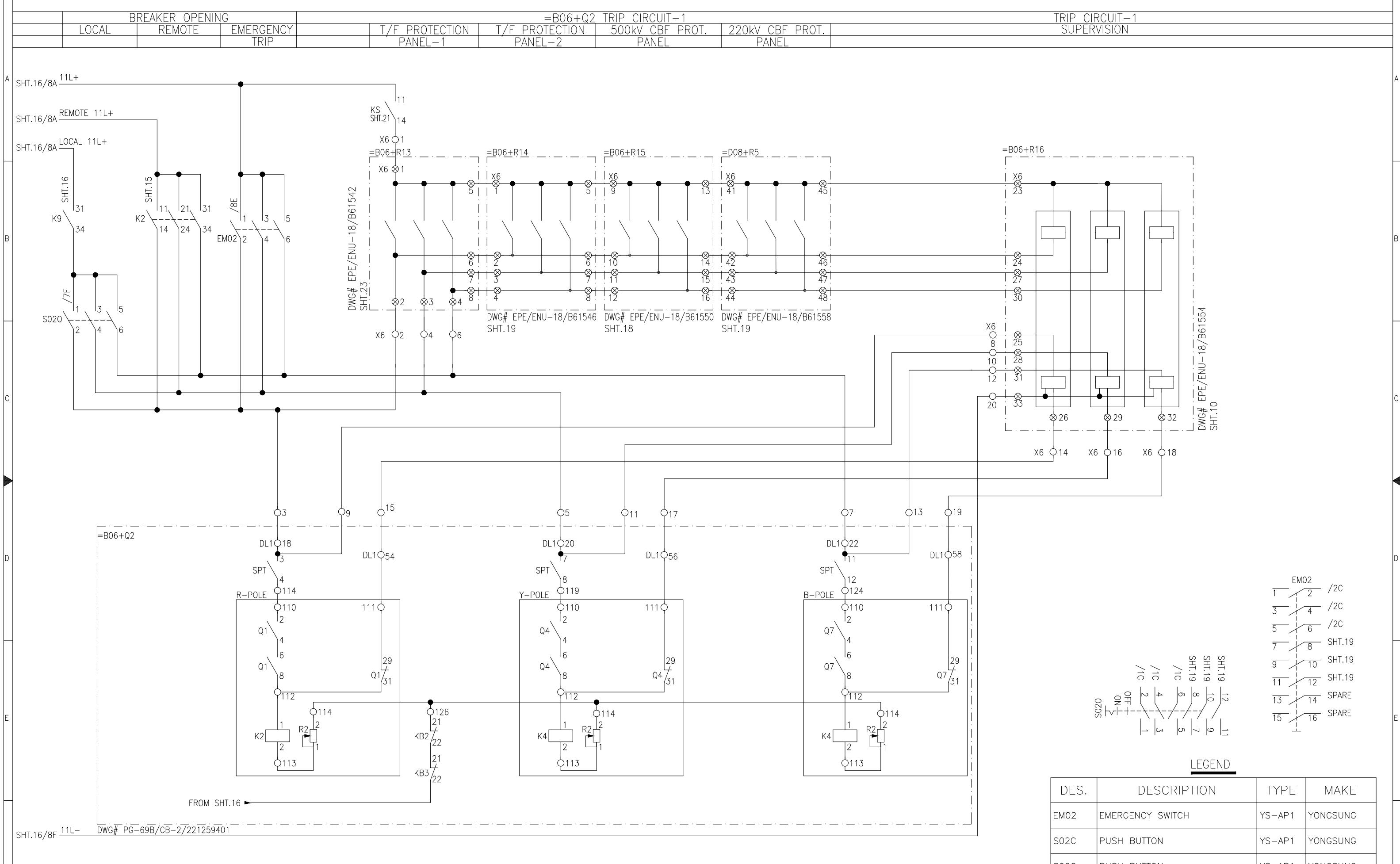
TITLE:
500KV LOCAL CONTROL CUBICAL TYPE =B06+S2

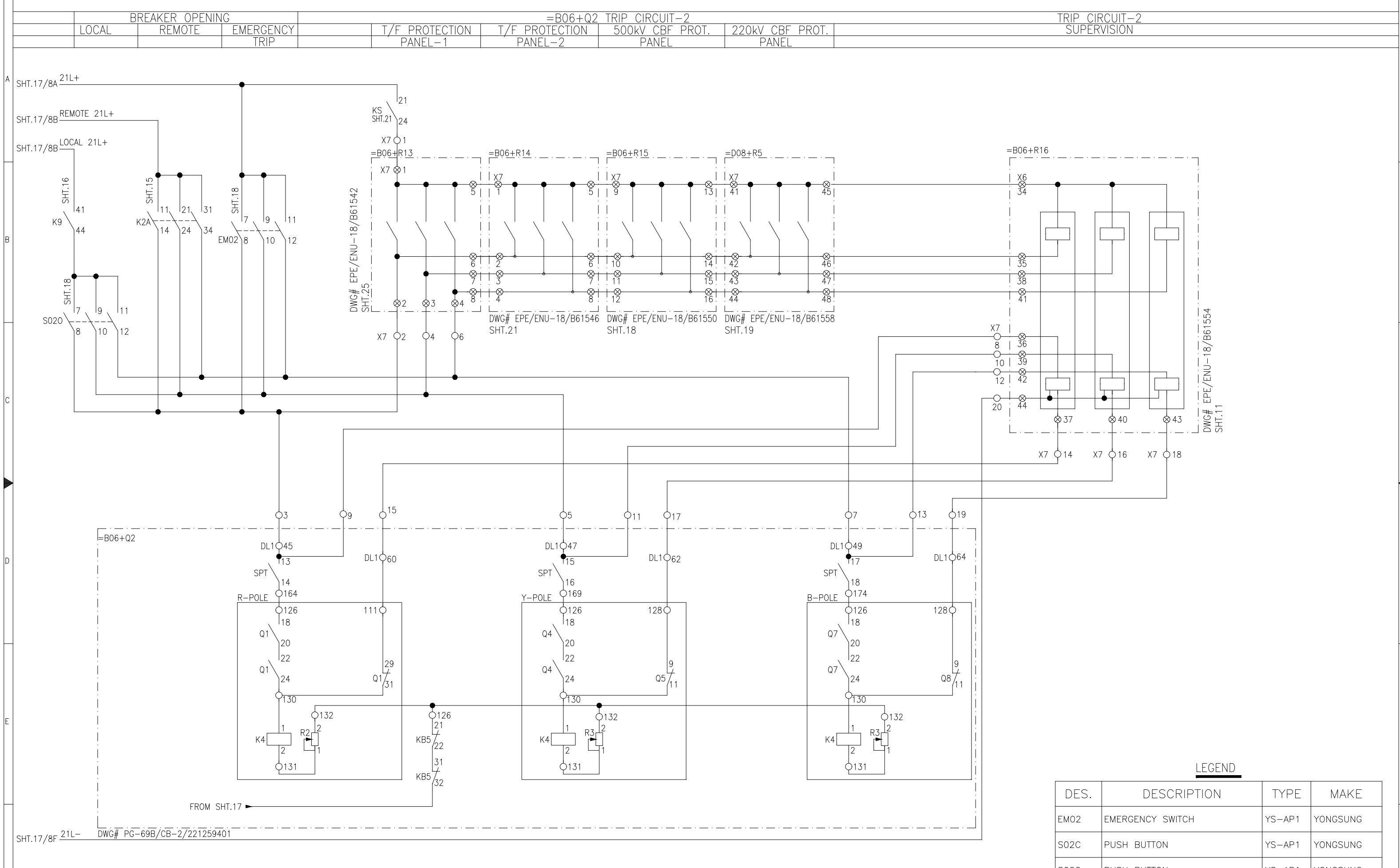


DWG# EPE/ENU-18/B61586 SHT: 16 OF 41
DATE: 07.03.2019 AS BUILT REV: 0

500kV CB 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+Q2 CLOSING CIRCUIT 500kV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 17 OF 41		
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	



**LEGEND**

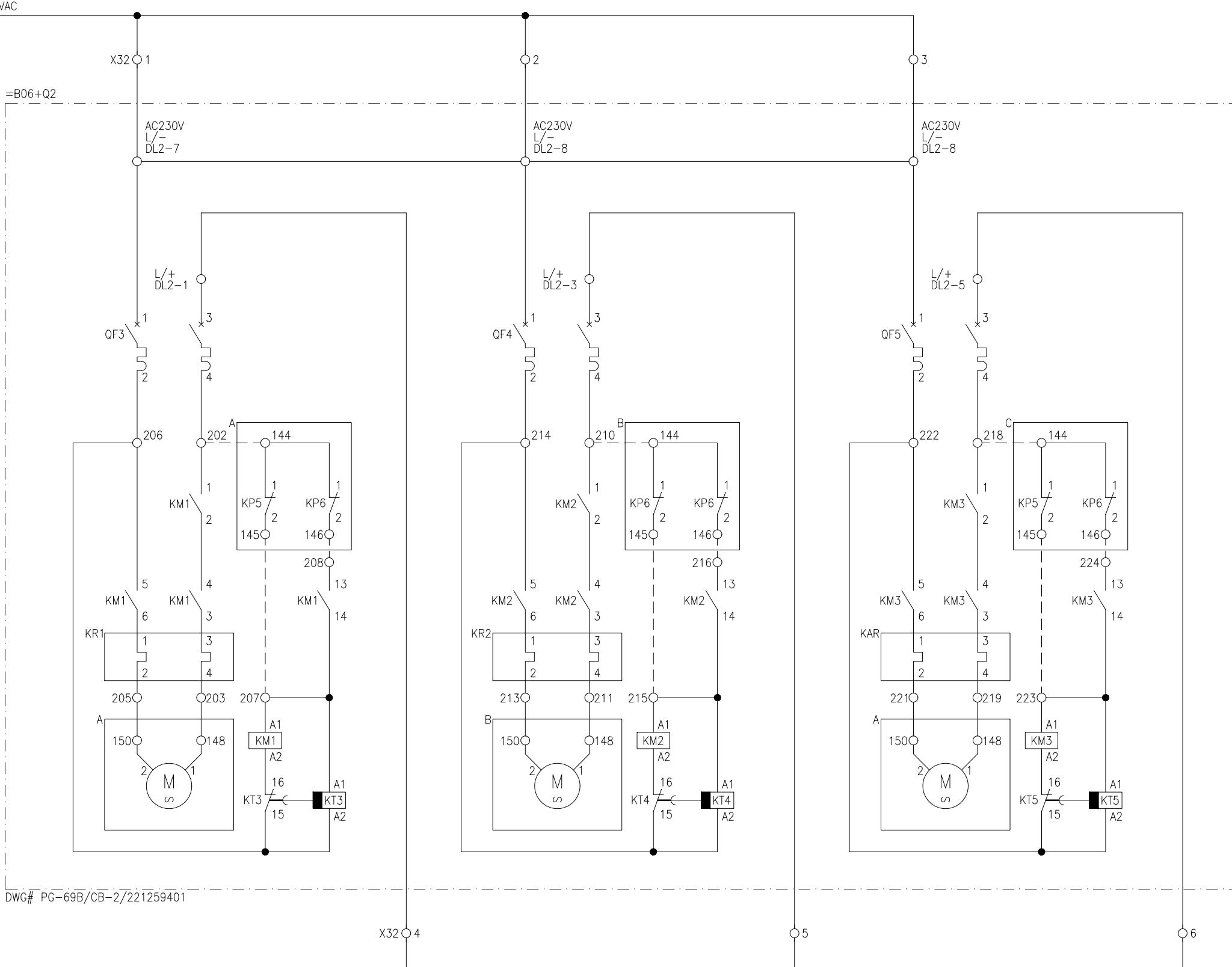
DES.	DESCRIPTION	TYPE	MAKE
EM02	EMERGENCY SWITCH	YS-AP1	YONGSUNG
S02C	PUSH BUTTON	YS-AP1	YONGSUNG
S020	PUSH BUTTON	YS-AP1	YONGSUNG

R-POLE

CB MOTOR DRIVE CIRCUIT
Y-POLE

B-POLE

SHT.38/2C PH 230 VAC



DWG# PG-69B/CB-2/221259401

SHT.38/2D 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+Q2 MOTOR DRIVE CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S2



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

DWG# EPE/ENU-18/B61586 SHT: 20 OF 41

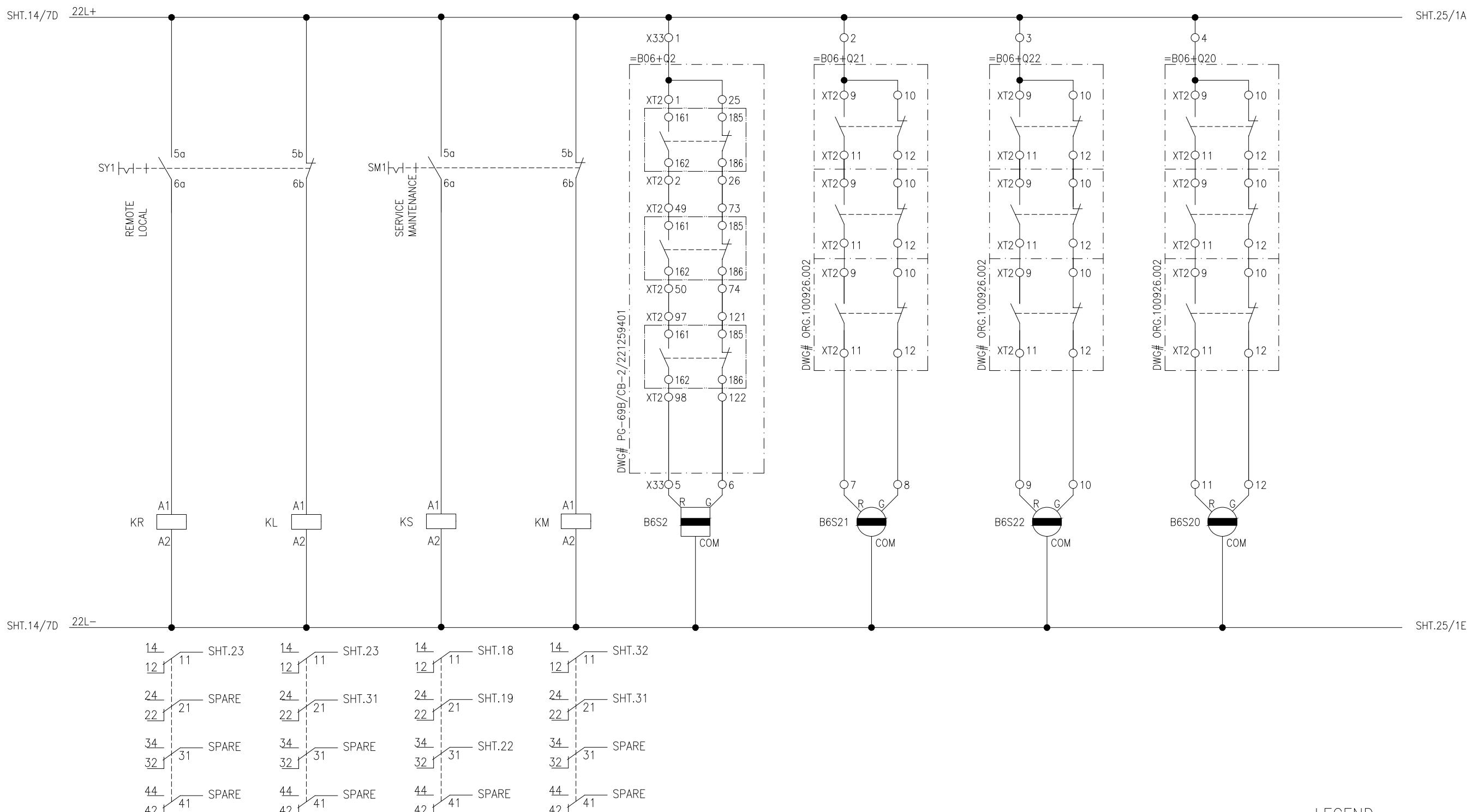
DATE: 07.03.2019 AS BUILT REV: 0

APPROVED CHECKED DRAWN

NAH MSS M.Sohail MUR

1 2 3 4 5 6 7 8

1	2	3	4	5	6	7	8
SELECTOR SWITCH REMOTE	SWITCH LOCAL	SELECTOR SWITCH SERVICE	SWITCH MAINTENANCE	CB =B06+Q2	DS =B06+Q21	DS =B06+Q22	DS =B06+Q20

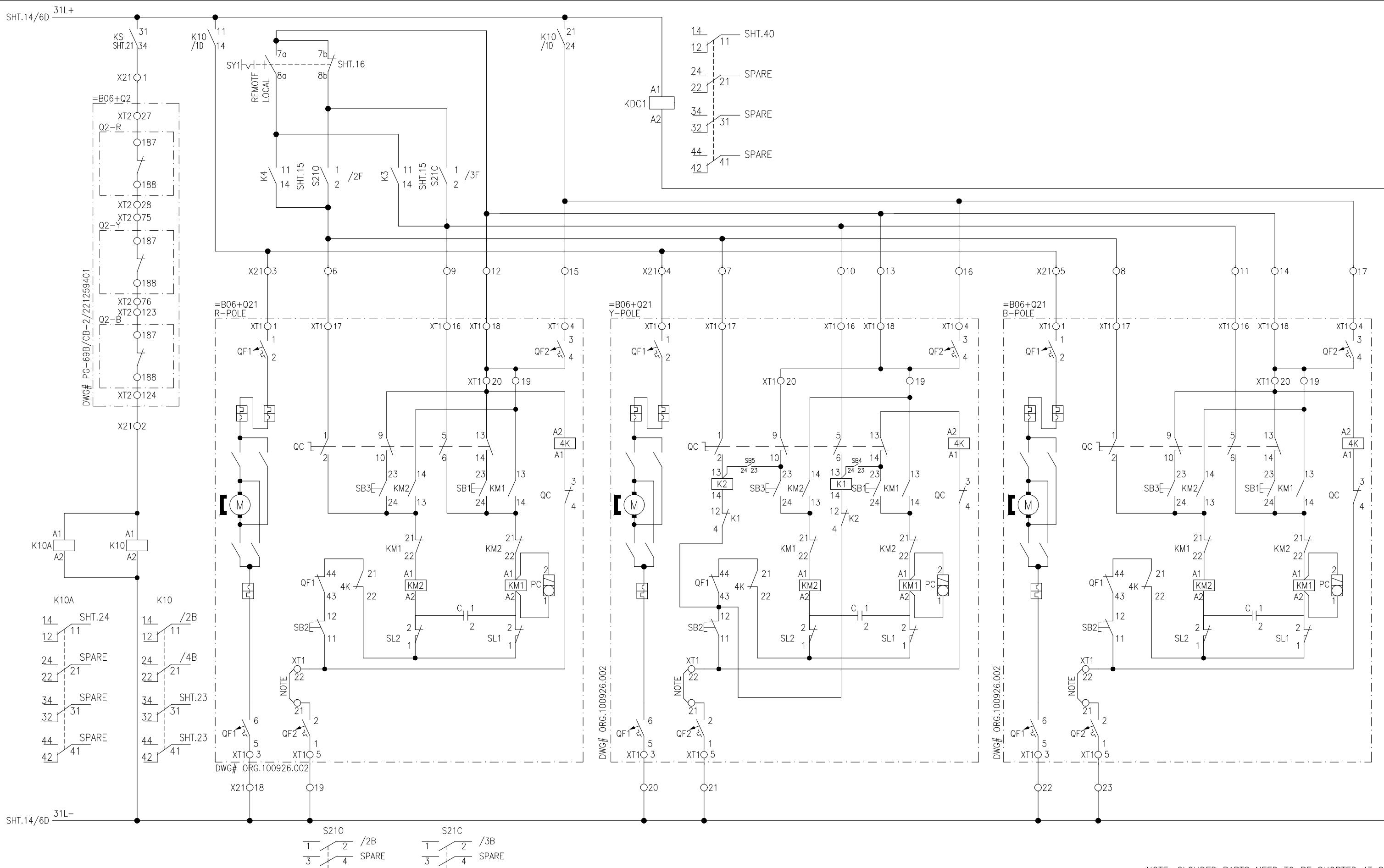


LEGEND

DES:	DESCRIPTION	TYPE	MAKE
B6S21,B6S22, B6S20	SEMAPHORE	SPR-30R	FUJI
B06S2	SEMAPHORE	SPR-30S	FUJI

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+S2	DWG# EPE/ENU-18/B61586	SHT: 21 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

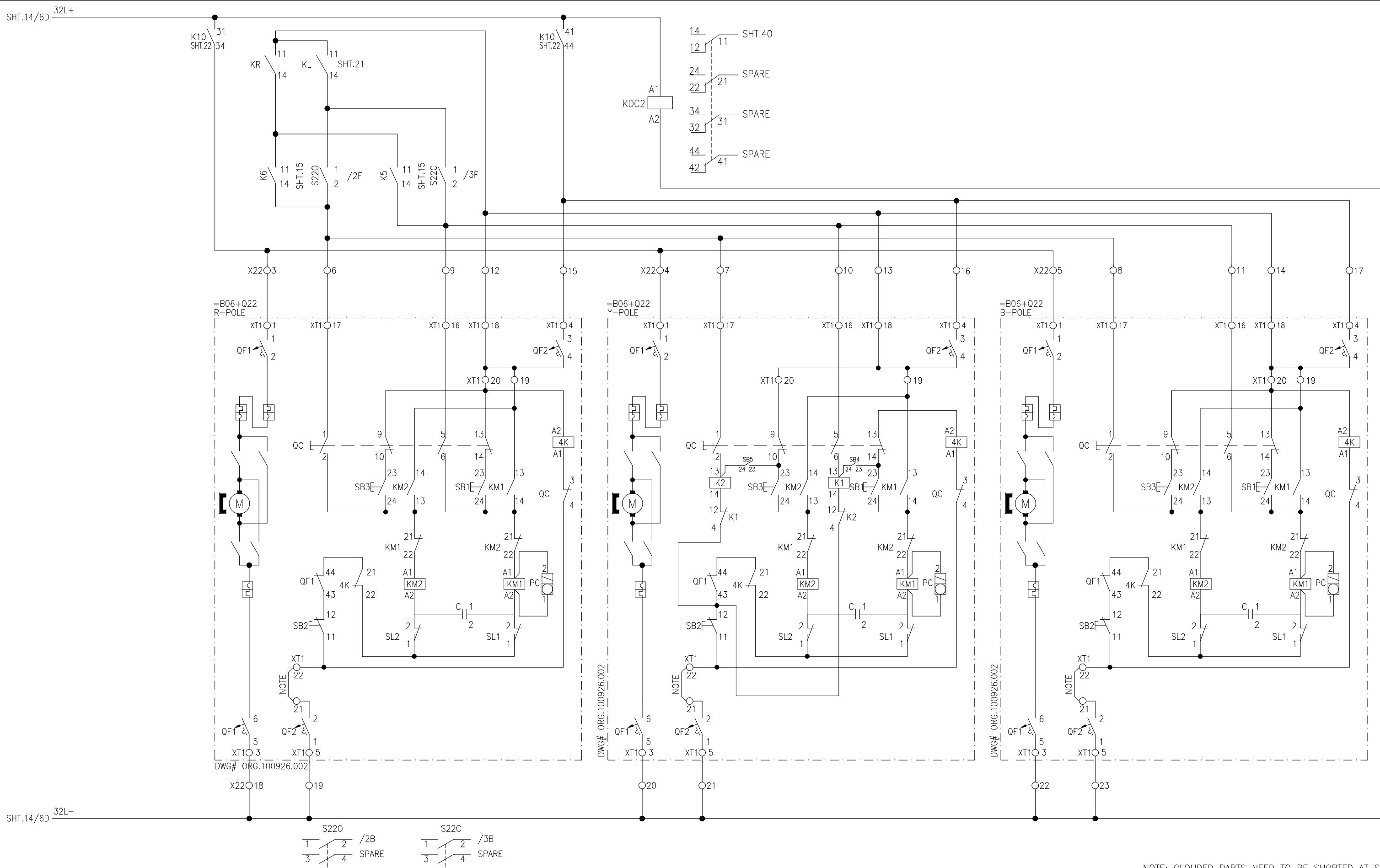
DISCONNECTOR =B06+Q21
INTERLOCKING MOTOR SUPPLY OPENING CLOSING



NOTE: CLOUDED PARTS NEED TO BE SHORTED AT SITE.

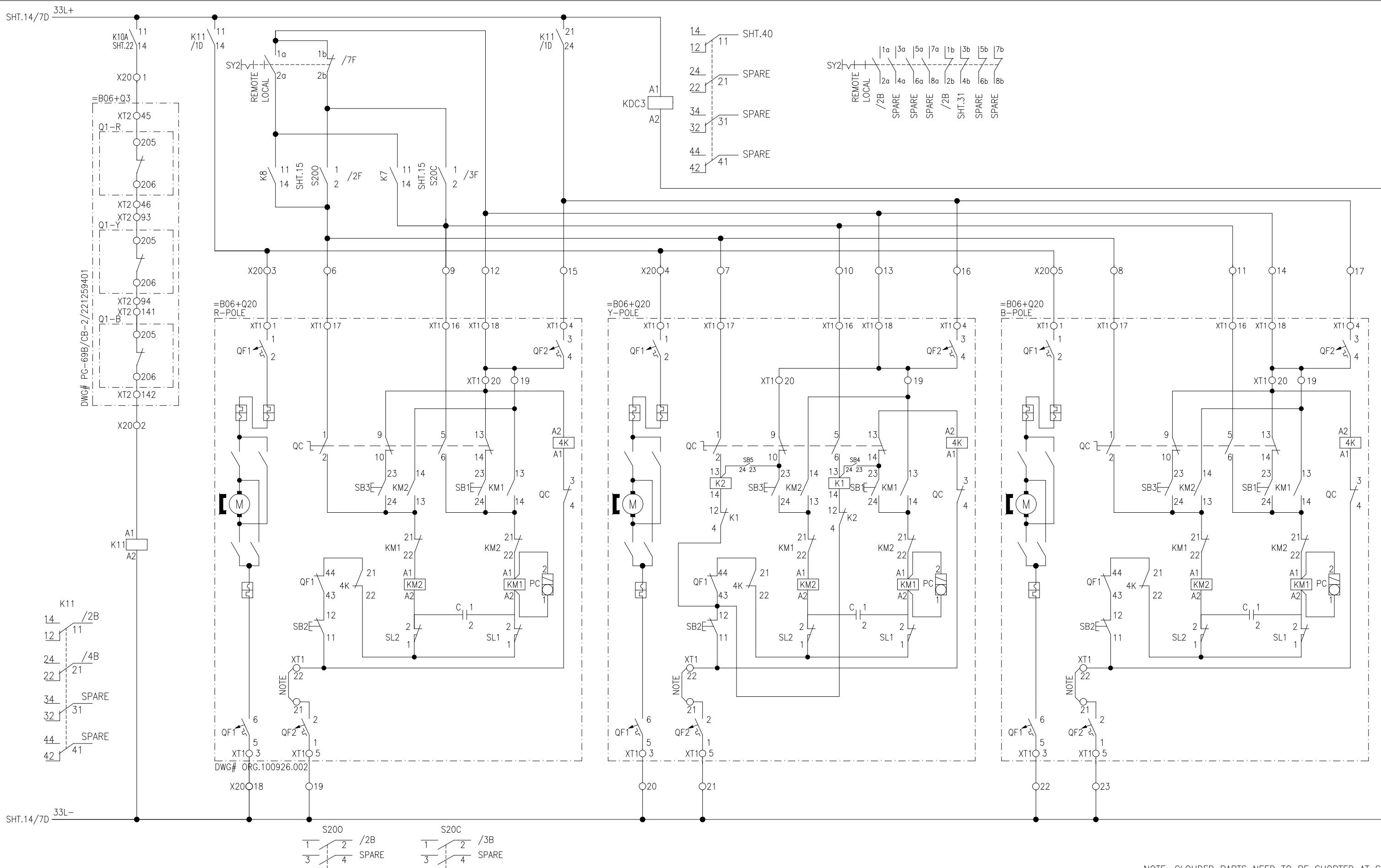
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: =B06+Q21 DISCONNECTOR CONTROL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 22 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT REV: 0

DISCONNECTOR =B06+Q22
INTERLOCKING MOTOR SUPPLY OPENING CLOSING



NOTE: CLOUDED PARTS NEED TO BE SHORTED 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: =B06+Q22 DISCONNECTOR CONTROL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 23 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]				DATE: 07.03.2019	AS BUILT REV: 0

DISCONNECTOR =B06+Q20
INTERLOCKING MOTOR SUPPLY OPENING CLOSING

NOTE: CLOUDED PARTS NEED TO BE SHORTED 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: =B06+Q20 DISCONNECTOR CONTROL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	EPE SOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 24 OF 41
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT

1 2 3 4 5 6 7 8

CB =B06+Q02 STATUS

OPEN

CLOSE

DS =B06+Q21 STATUS

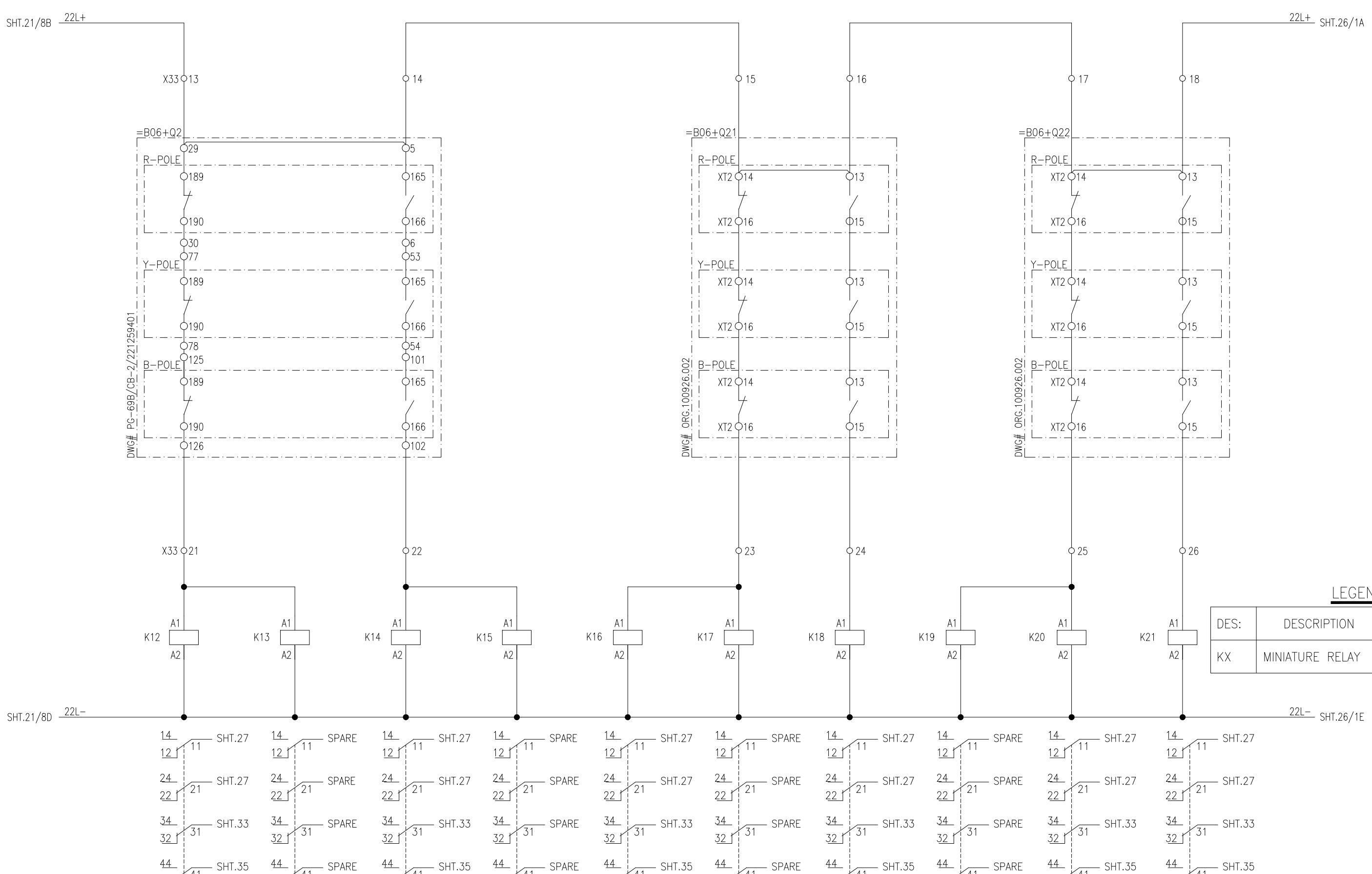
OPEN

CLOSE

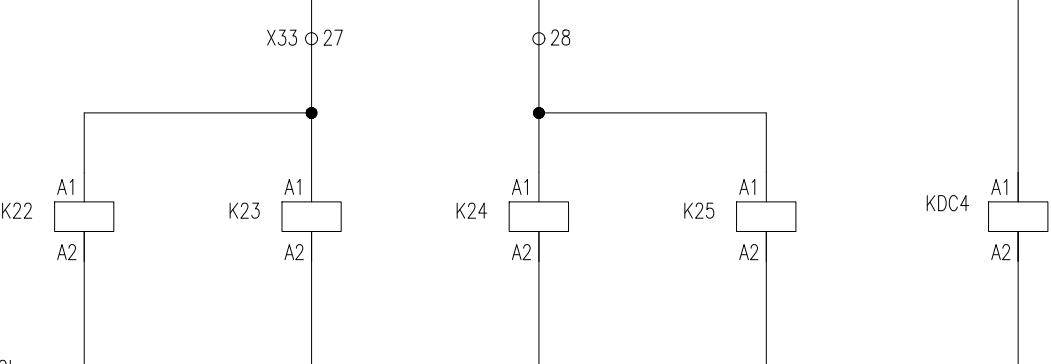
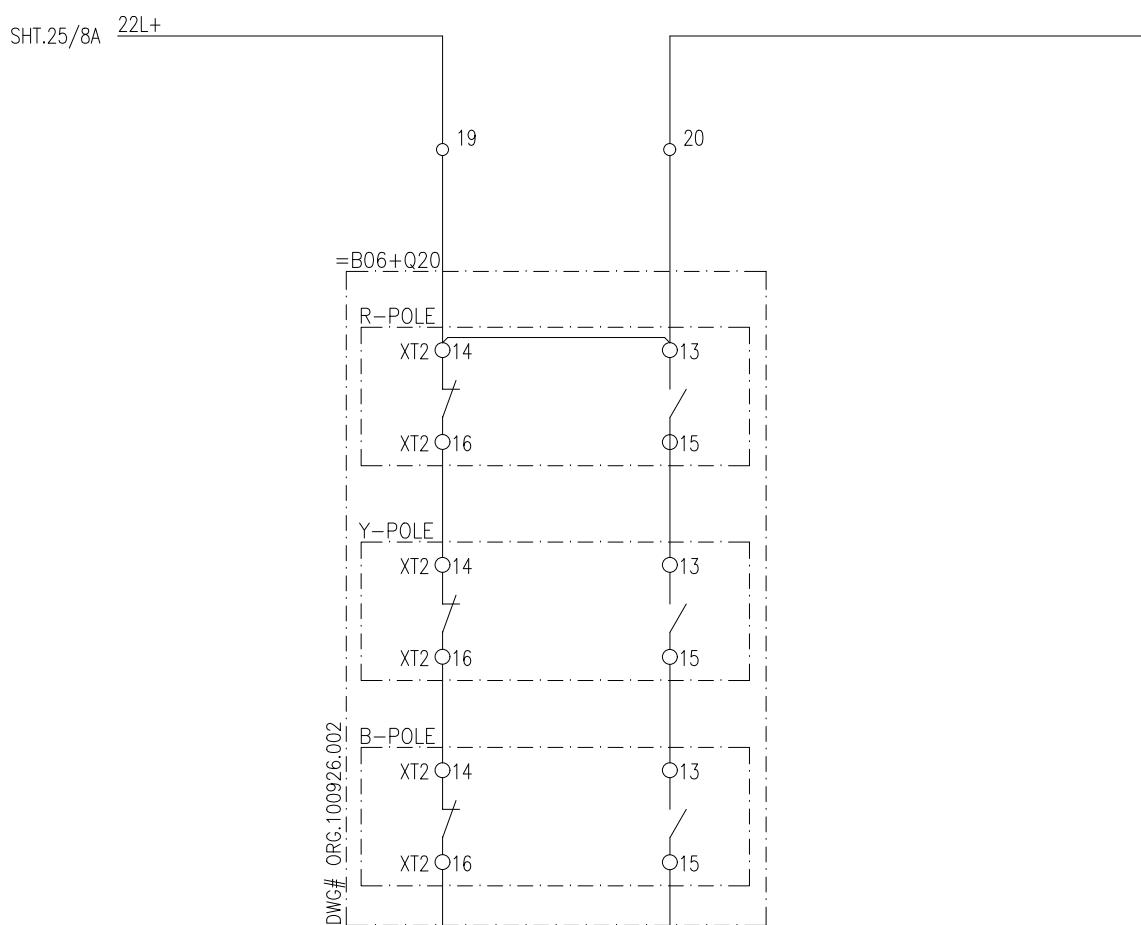
DS =B06+Q22 STATUS

OPEN

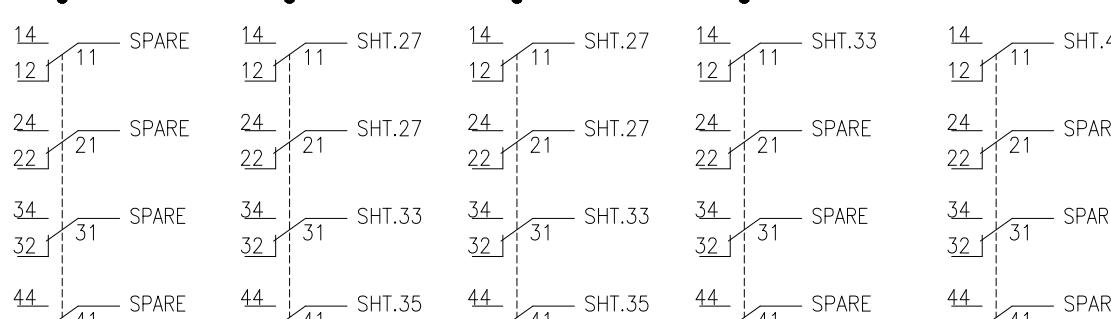
CLOSE



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+S2	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 25 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]				DATE: 07.03.2019	AS BUILT REV: 0

DS =B06+Q20 STATUS
OPEN CLOSEDC
SUPPLY
SUPERVISION

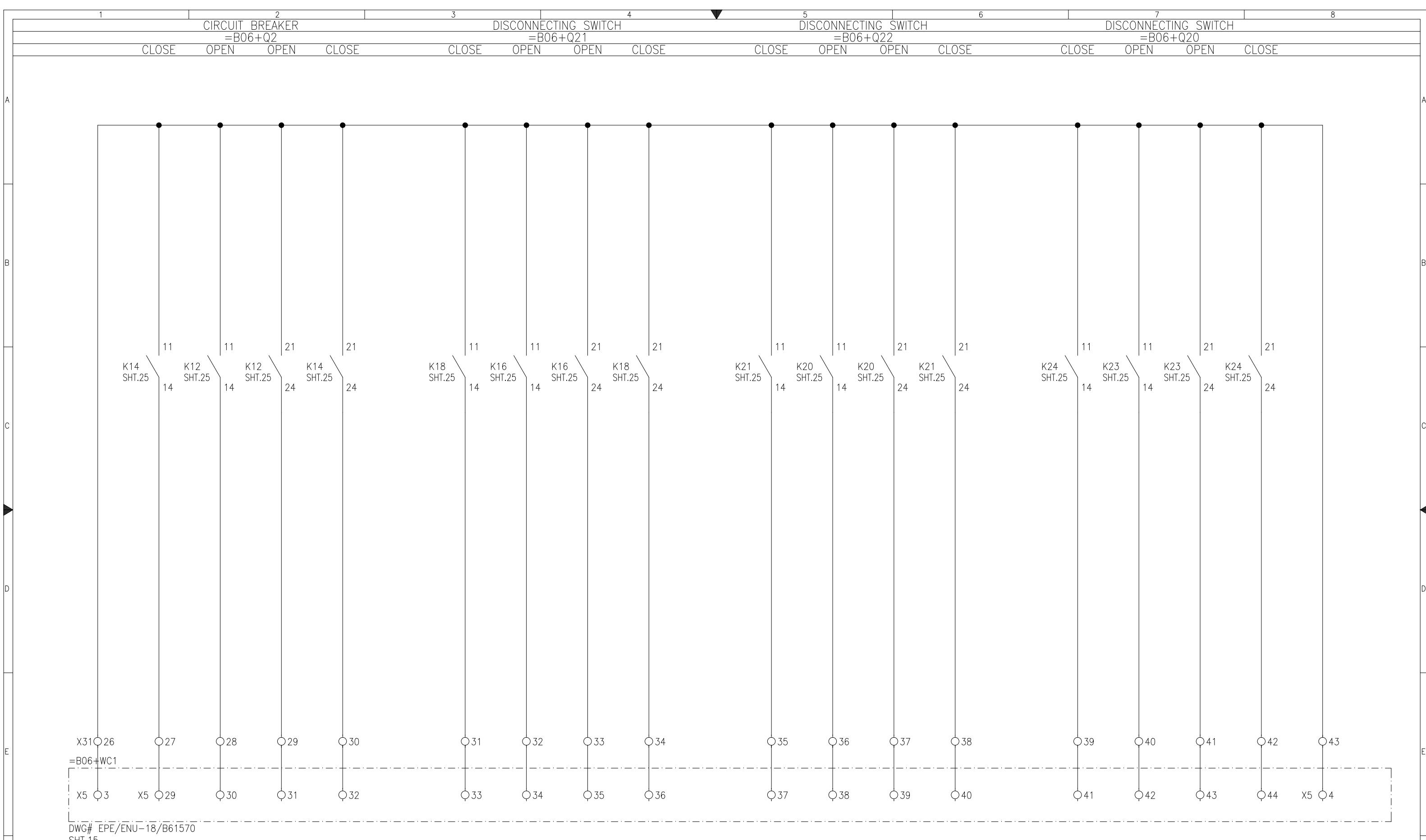
SHT.25/8A 22L-



LEGEND

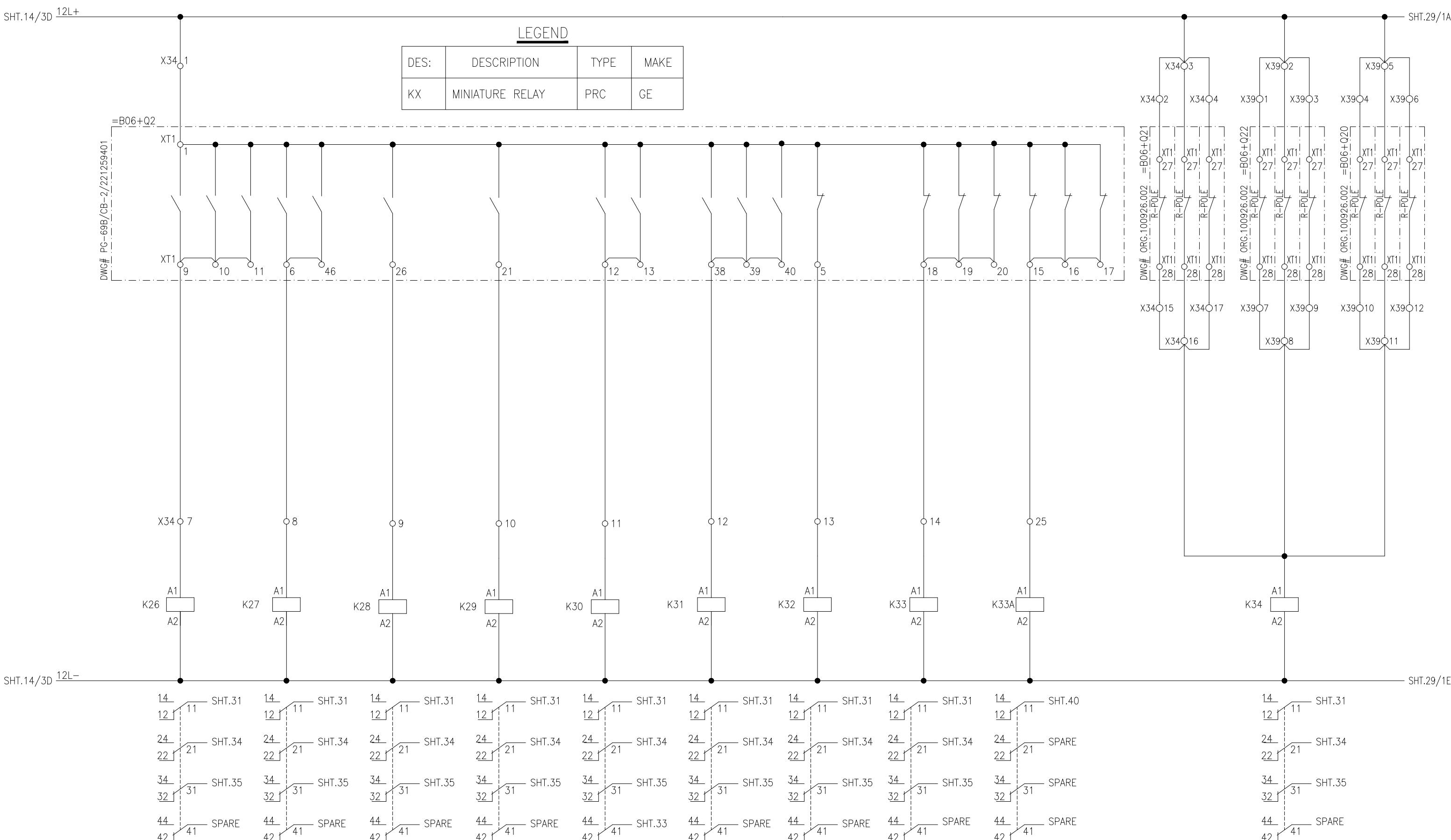
DES:	DESCRIPTION	TYPE	MAKE
KX	MINIATURE RELAY	PRC	GE

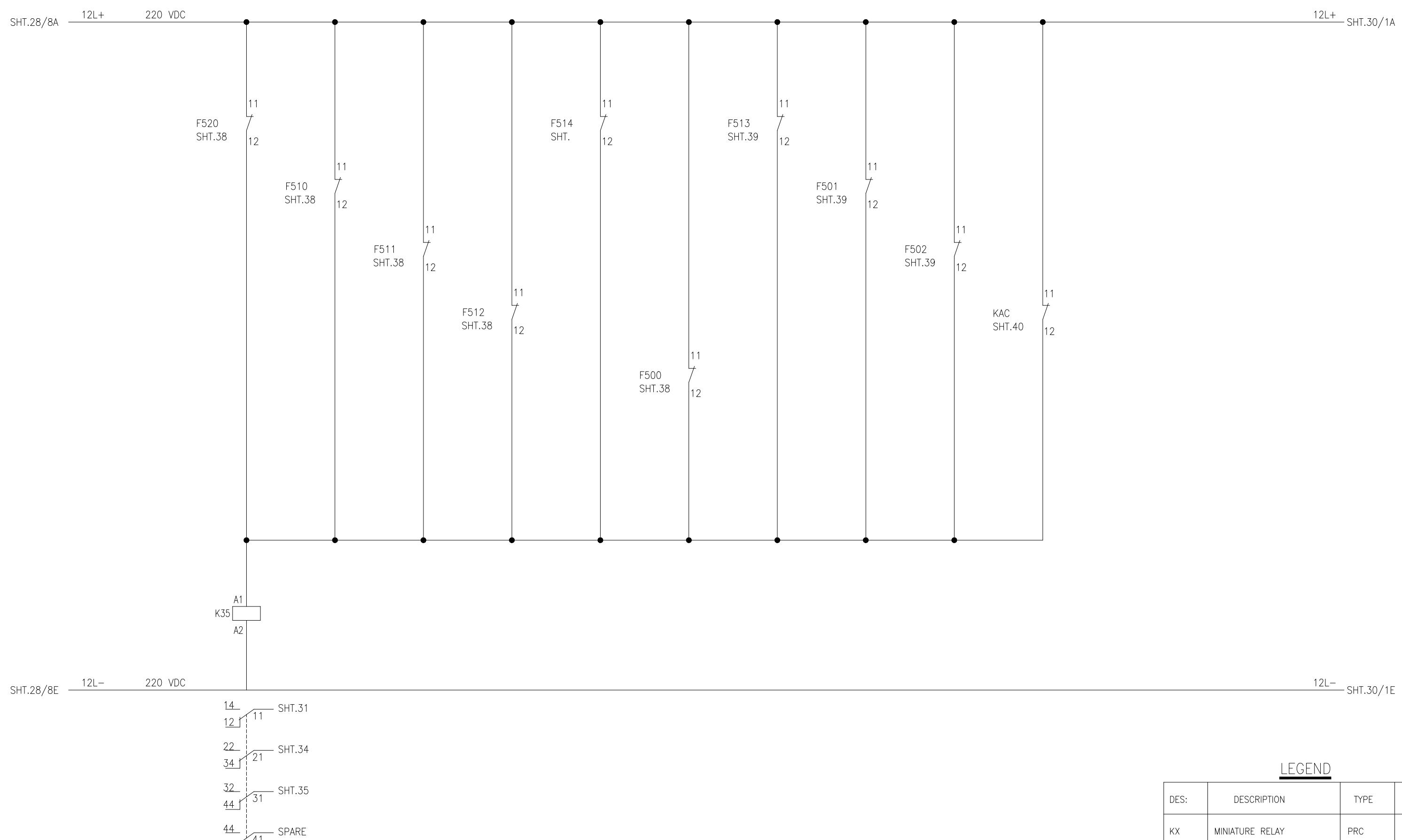
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: CB/DS STATUS 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 26 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]		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 REV: 0



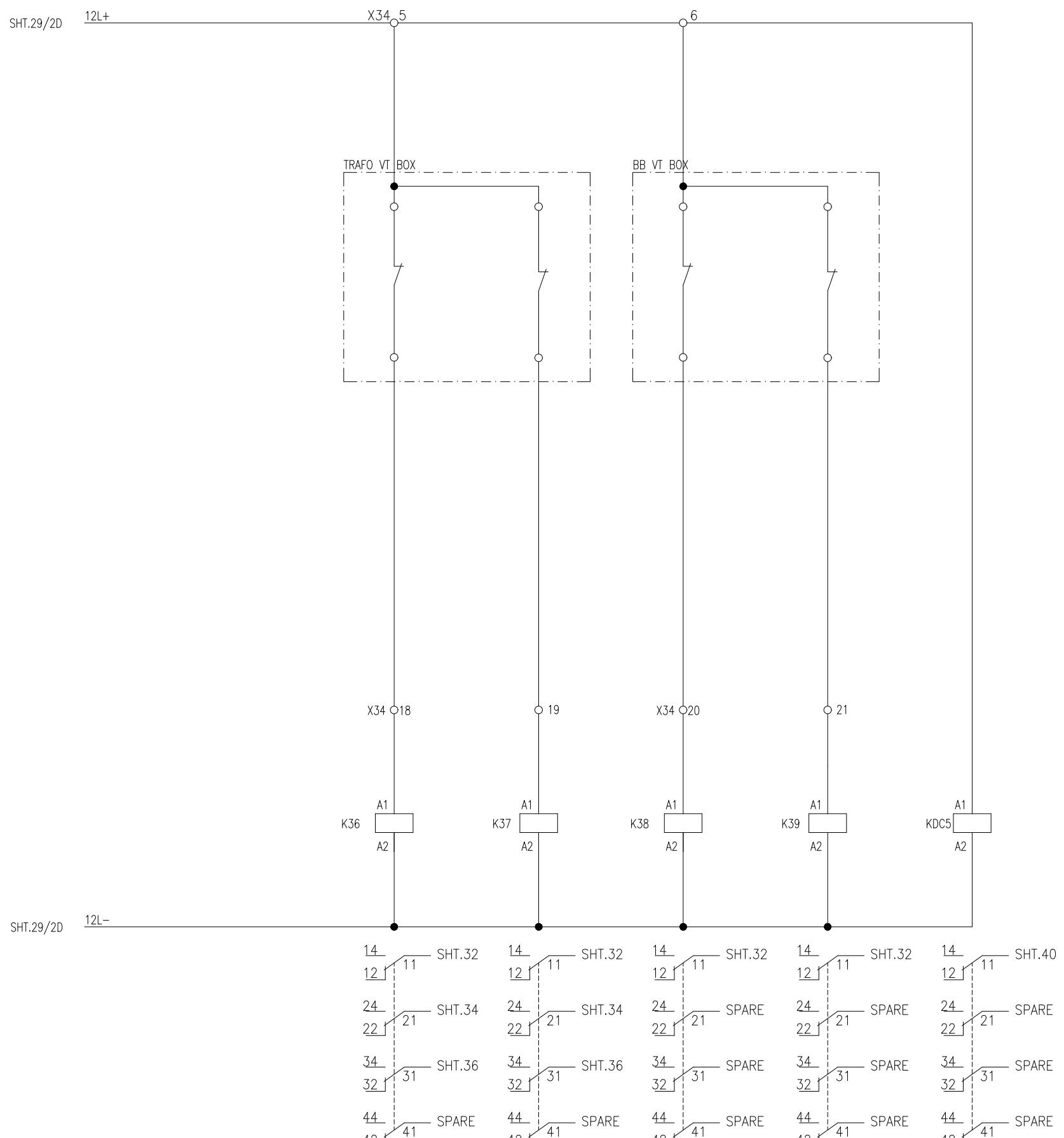
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: POSITION INDICATION FOR CONTROL PANEL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 27 OF 41
NAH <i>[Signature]</i>	MSS <i>[Signature]</i>	MUR <i>[Signature]</i>	 EPE SOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan		DATE: 07.03.2019	AS BUILT

NOTE: CLOUDED PART NEEDS TO BE MODIFIED AT SITE.



AC MCB
TRIPLEGEND

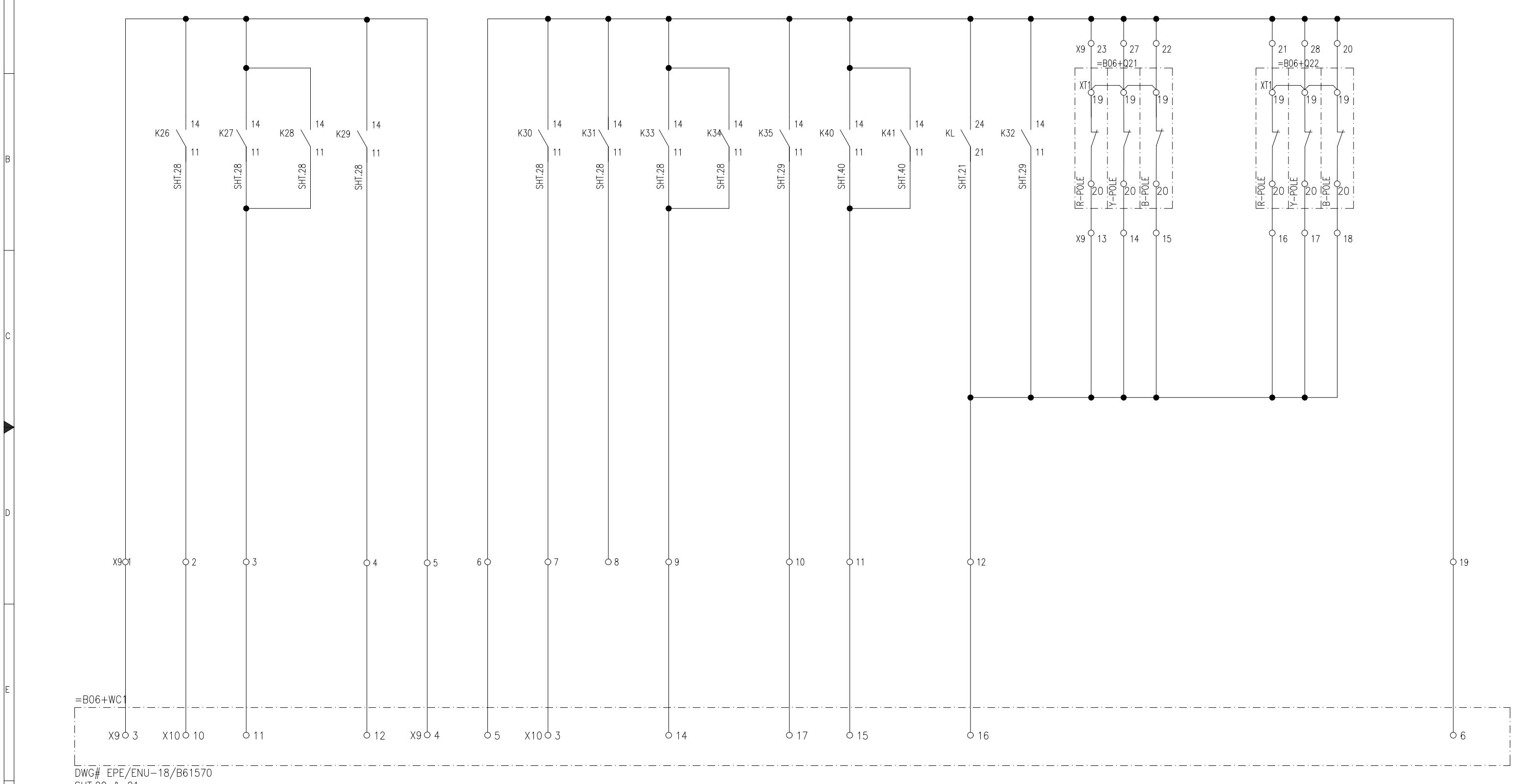
DES:	DESCRIPTION	TYPE	MAKE
KX	MINIATURE RELAY	PRC	GE

LEGEND

DES:	DESCRIPTION	TYPE	MAKE
KX	MINATURE RELAY	PRC	GE

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: VT MCB TRIP 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 30 OF 41
NAH	MSS	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 MECHANISM PRESSURE LOW	ENFORCED CLOSING LOCKOUT	SF6 LOW PRESSURE LOCKOUT	MOTOR RUN TIME MONITORING	AC SUPPLY FAIL /HEATING FAULTY DS AC FAIL	M.K AC MCB TRIP	MOTOR CIRCUIT MCB TRIP CB DS	CONTROL AT LOCAL =B06+Q2 =B06+Q21 =B06+Q22
MECHANISM NOT CHARGED	CB SPRING OPERATION	TRIPLE POLE OPERATION					

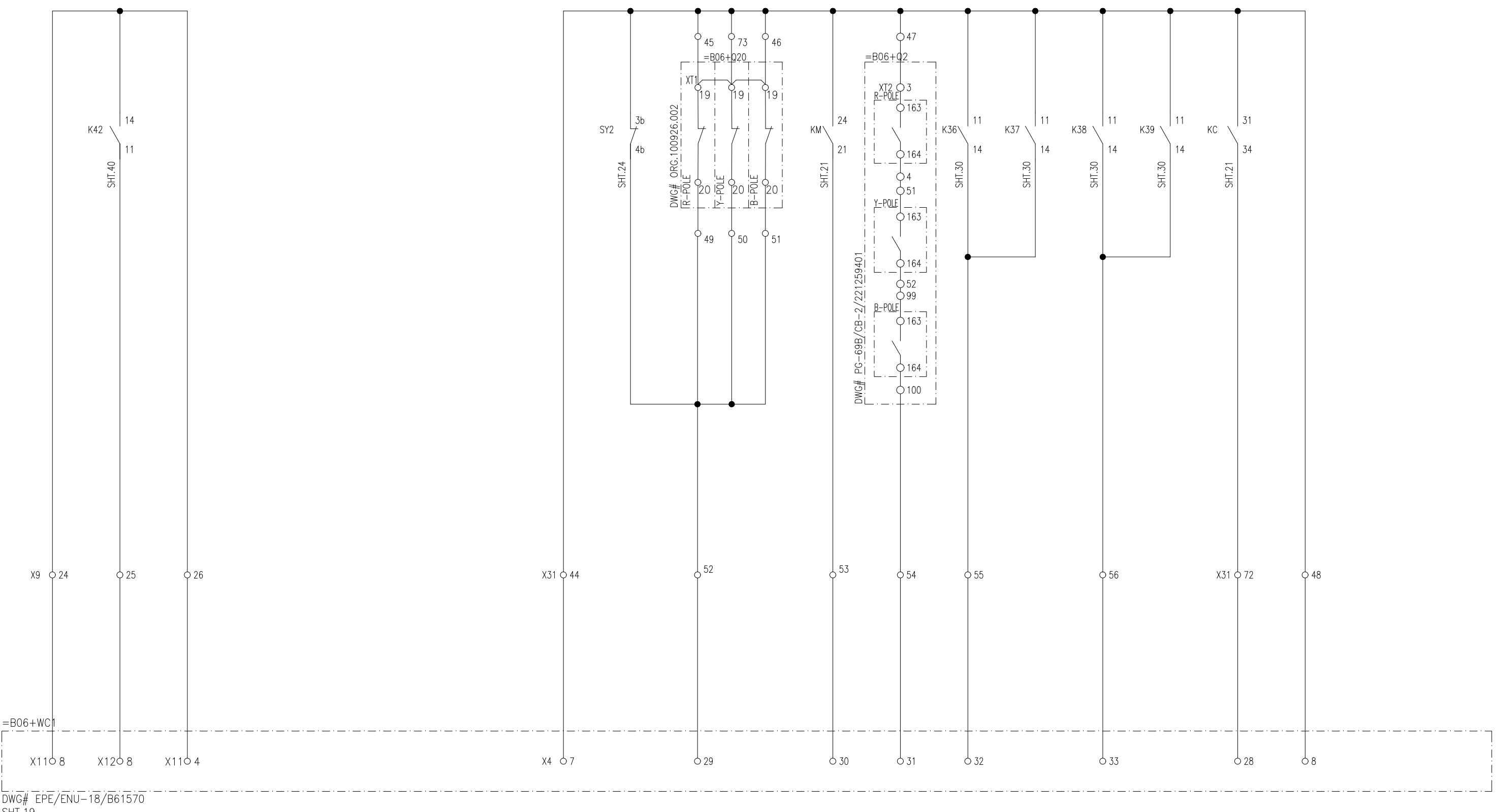


DWG# EPE/ENU-18/B61570
SHT.20 & 21

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+S2	DWG# EPE/ENU-18/B61586	SHT: 31 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan		DATE: 07.03.2019	AS BUILT

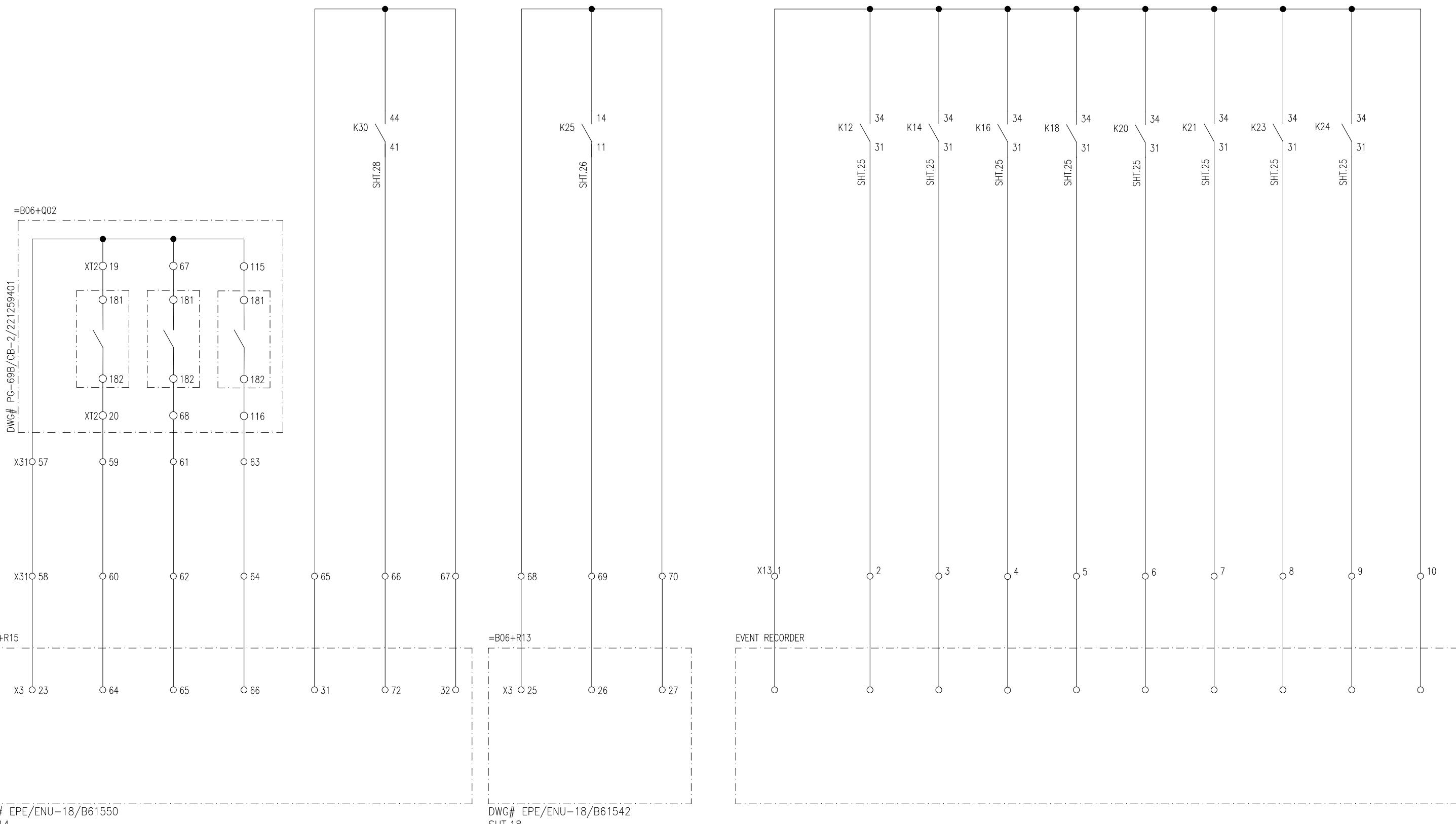
1	2	3	4	=B06+Q20 IN LOCAL MODE	5	CB IN MAINTENANCE OPERATION COUNTER	TRAFO VT WINDING-1	MCB TRIP WINDING-2	BB-I VT WINDING-1	MCB TRIP WINDING-2	CB ON LOCAL MODE	7	8
---	---	---	---	------------------------------	---	--	-----------------------	-----------------------	----------------------	-----------------------	------------------------	---	---

M.K DC FAIL



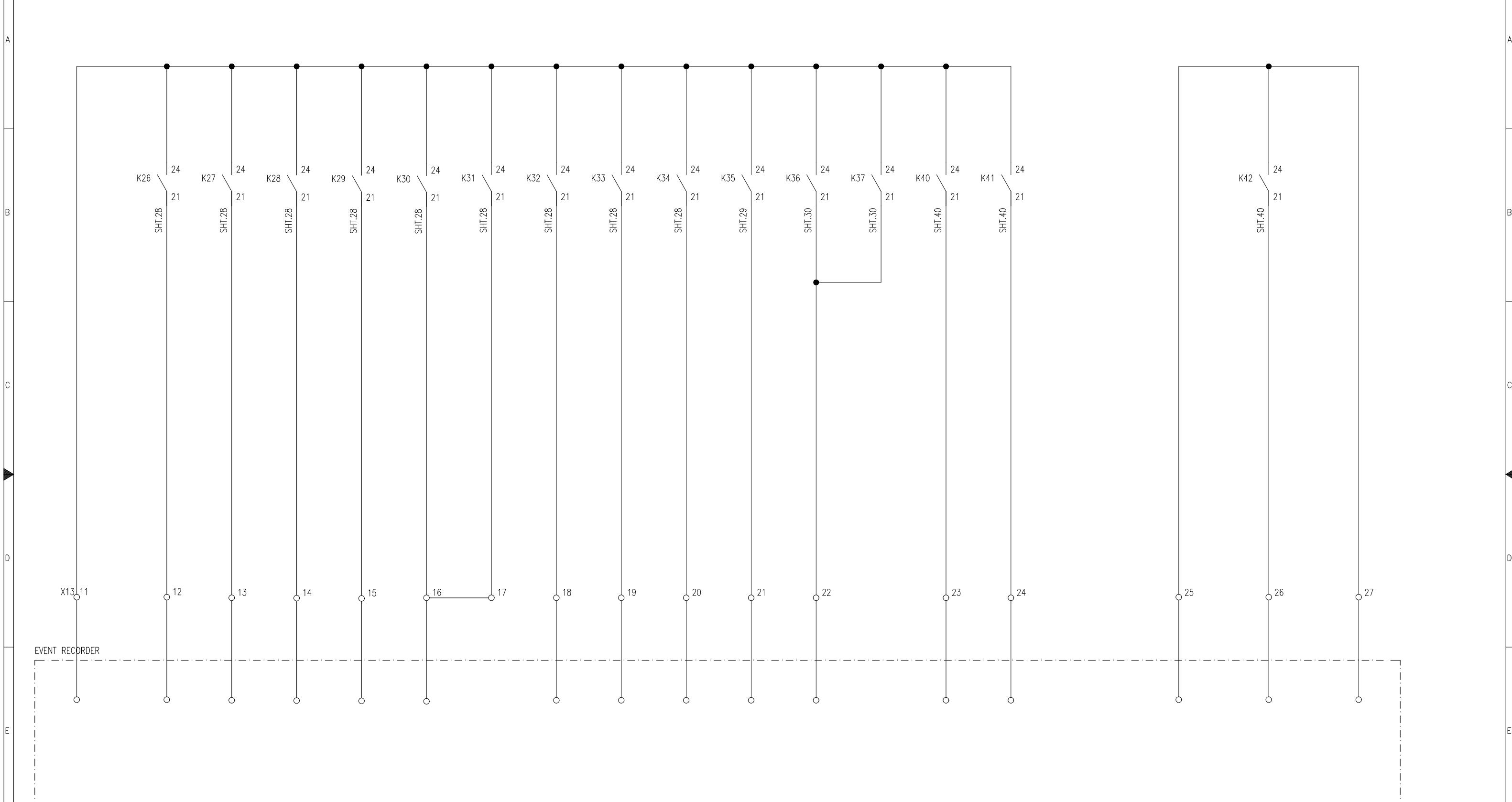
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR ANNUNCIATION 500kV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 32 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]		EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

1	2	3	4	5	6	7	8
=B06+Q2 AUX CONTACT FOR BREAKER FAILURE RESET	CB FAULTY	B06+Q20 CLOSE STATUS FOR 24	CIRCUIT BREAKER =B06+Q2 OPEN	DISCONNECTOR =B06+Q21 CLOSE	DISCONNECTOR =B06+Q22 OPEN	DISCONNECTOR =B06+Q20 CLOSE	



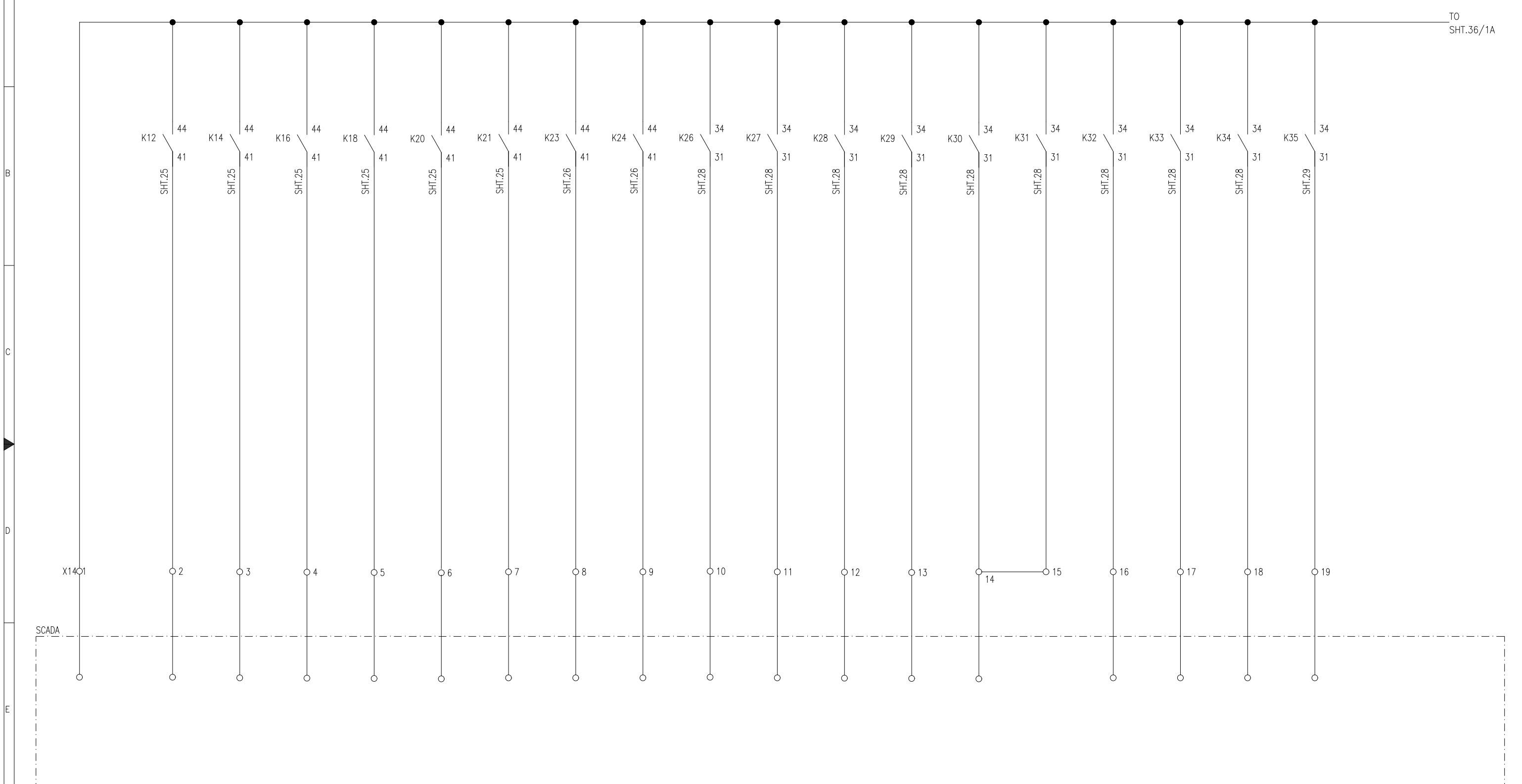
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR EVENT RECORDER 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	E P E S O L P v t . L t d . 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 33 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]				DATE: 07.03.2019	AS BUILT

1	2	3	4	5	6	7	8
SF6 LOW PRESSURE ALARM	MECHANISM CLOSING LOCKOUT	ENFORCED CB SPRING NOT CHARGED	GENERAL LOCKOUT SF6/MOTOR OPERATION TIME MONITORING	CB CONTROL AT LOCAL	CB AC MCB TRIP	DS AC MCB TRIP	TRAFO VT MCB PROT. METERING
							CB MOTOR CIRCUIT MCB
							DS MOTOR CIRCUIT MCB

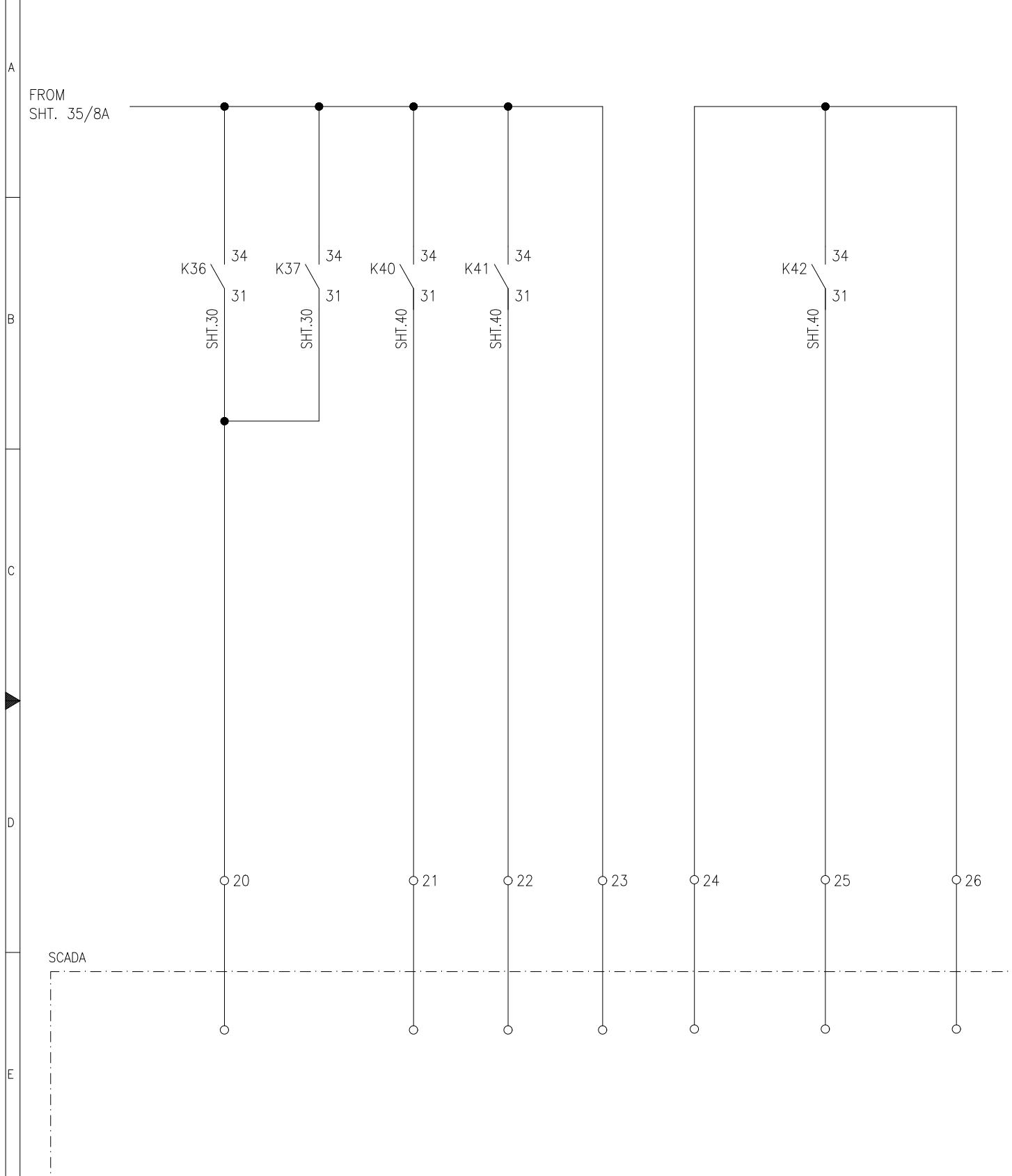


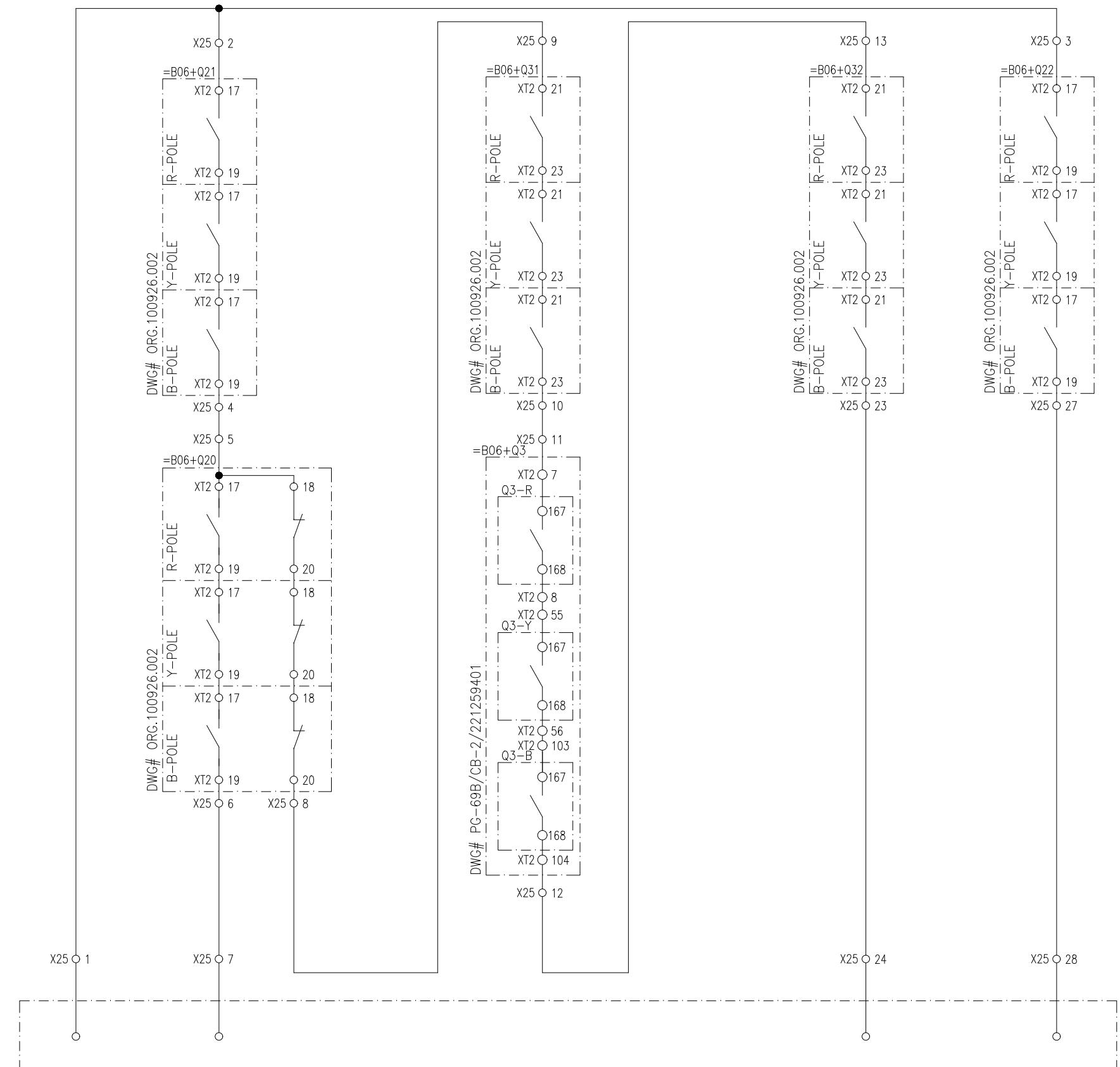
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR EVENT RECORDER 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	EPE SOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 34 OF 41
NAH	MSS	MUR				DATE: 07.03.2019	AS BUILT

1	2	3	4	5	6	7	8
CIRCUIT BREAKER Q2	ISOLATOR Q21	ISOLATOR Q22	ISOLATOR Q20	SF6 LOW PRESSURE ALARM MECHANISM CLOSING LOCKOUT	ENFORCED CB SPRING NOT CHARGED TRIPPLE POLE OPERATION	GENERAL LOCKOUT SF6/MOTOR TIME MONITORING	CB CONTROL AT LOCAL CB AC MCB TRIP DS AC MCB M.K AC MCB TRIP
OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	TIME MONITORING	LOCAL



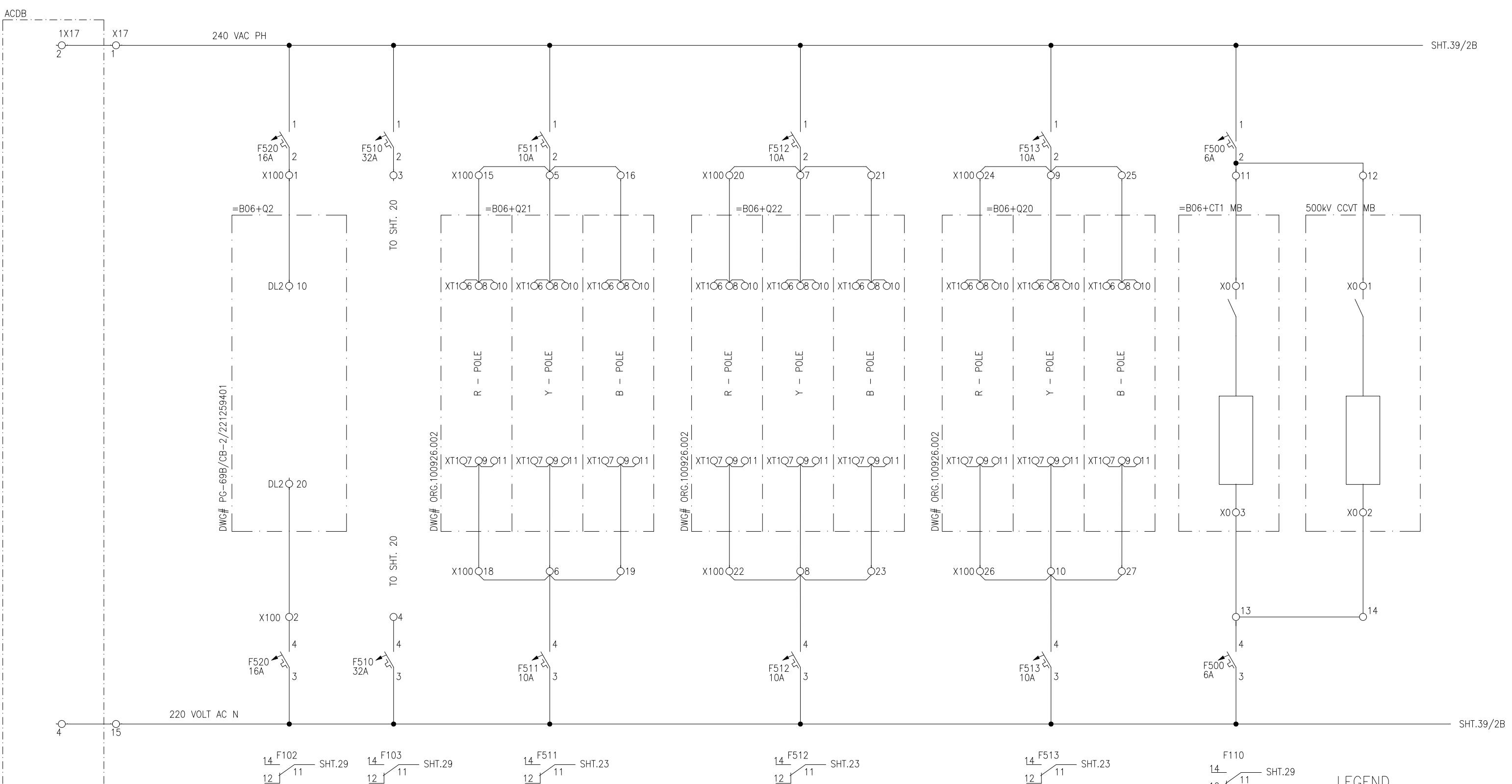
APPROVED	CHECKED	DRAWN	PROJECT: EDUCATIONAL ORDER NTDC PO# CE/MP&M /M(P)/AM-VI/E0/9417-29 DATED 14.11.2018 FOR THE PROCUREMENT OF 220KV & 500KV RELAY& CONTROL PANELS	TITLE: SIGNALING FOR SCADA 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	EPE SOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61586	SHT: 35 OF 41
NAH Q.	MSS M. Sohail	MUR Iy				DATE: 07.03.2019	AS BUILT





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: SYNC. SELECTION 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	DWG# EPE/ENU-18/B61586	SHT: 37 OF 41
NAH [Signature]	MSS [Signature]	MUR [Signature]		 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE: 07.03.2019	AS BUILT

DWG# EPE/ENU-18/B61598
SHT.07

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

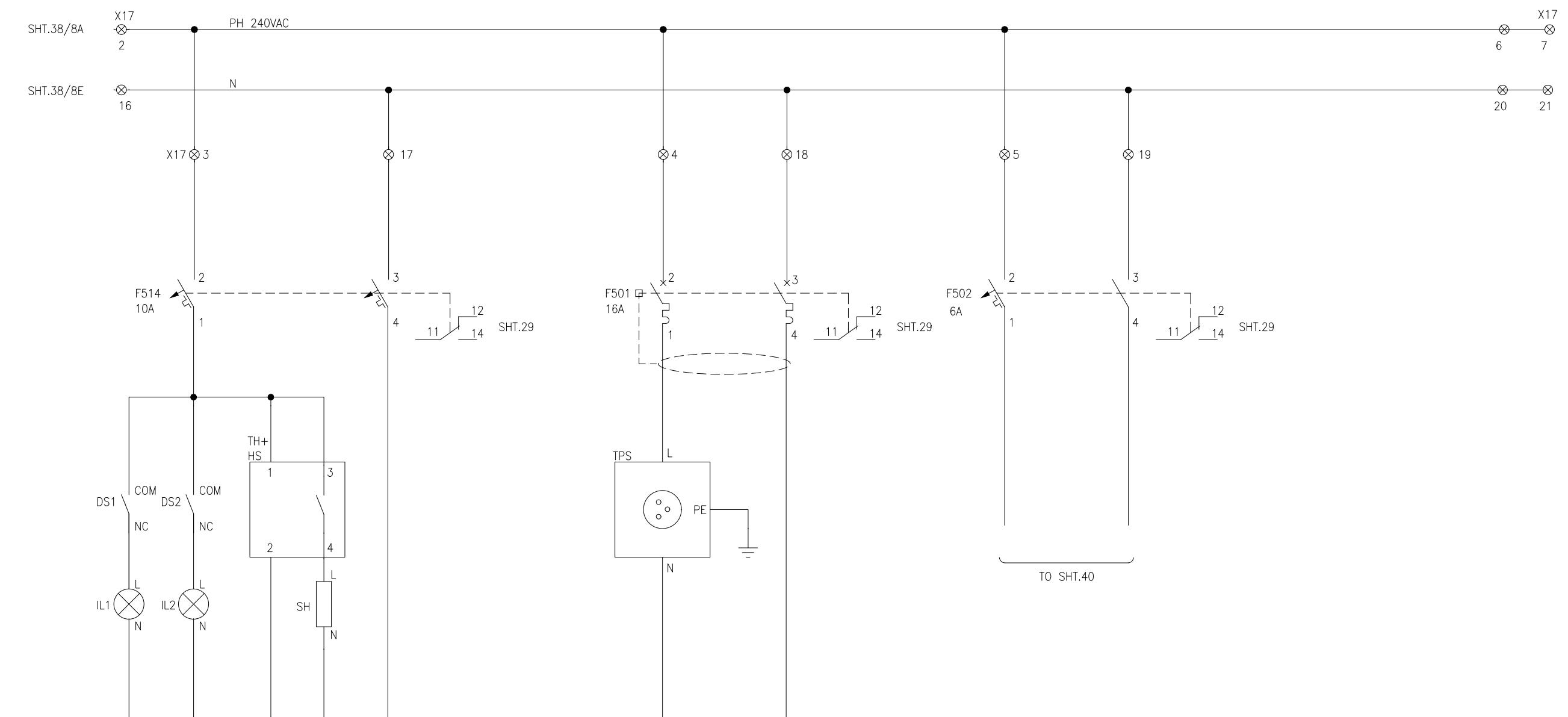
TITLE: AC DISTRIBUTION CIRCUIT
500KV LOCAL CONTROL CUBICAL TYPE =B06+S2E P E S O L P v t . L t d.
71-B Garden Block, New Garden Town, Lahore, Pakistan

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

DWG# EPE/ENU-18/B61586 SHT: 38 OF 41
DATE: 07.03.2019 AS BUILT REV: 0

DOOR SWITCH &
CUBICLE LIGHTSPACE HEATER
THERMOSTAT

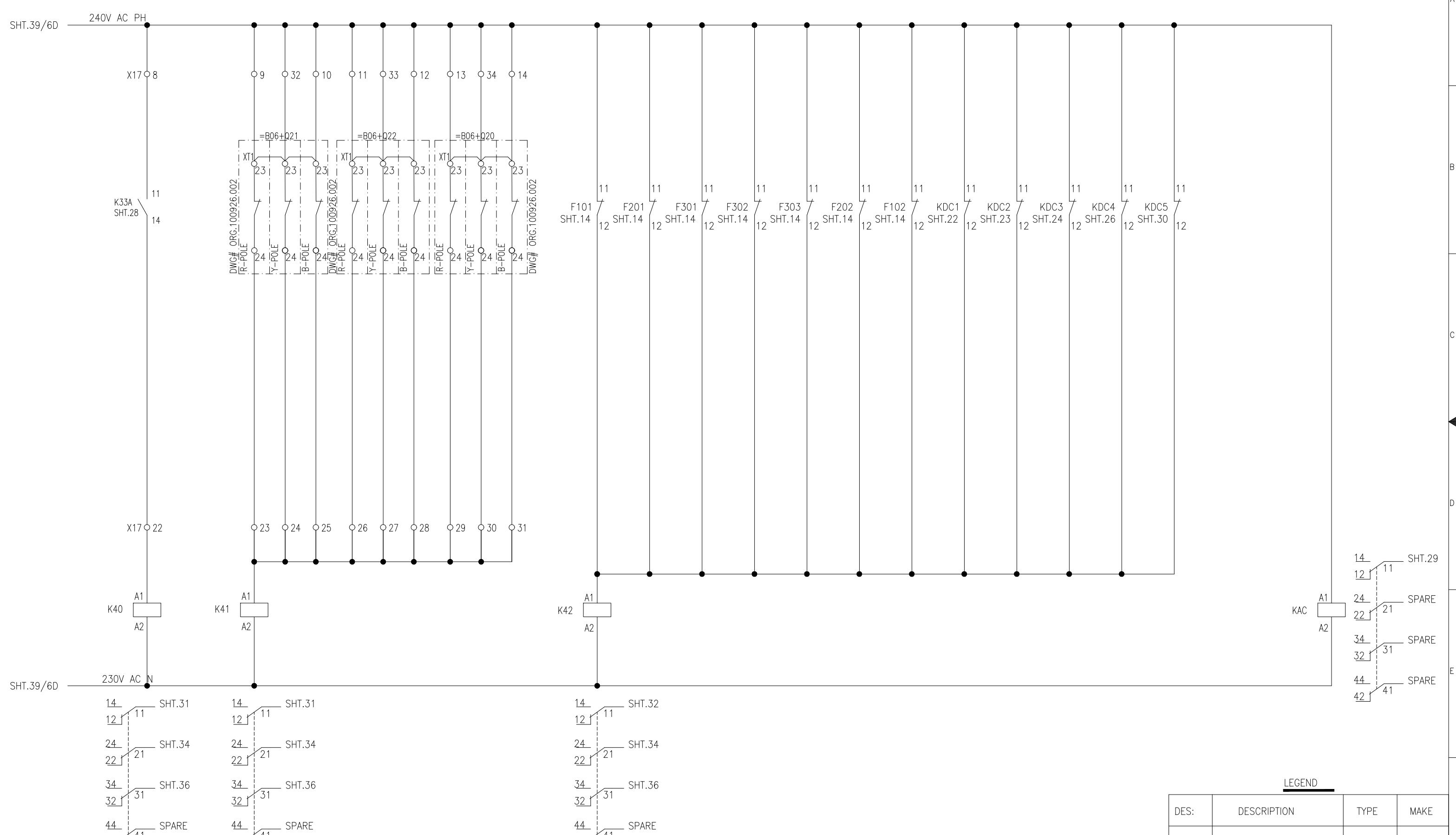
THREE PIN SOCKET

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

1 2 3 4 ▼ 5 6 7 8

CB MOTOR CIRCUIT DS MOTOR SUPPLY DC MCB
MCB TRIP MCB TRIP TRIP



14 11 SHT.29
12 21 SPARE
24 21 SPARE
34 31 SPARE
32 41 SPARE
44 41 SPARE

DES:	DESCRIPTION	TYPE	MAKE
KX	AC MINIATURE RELAY	PRC	GE



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+S2



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

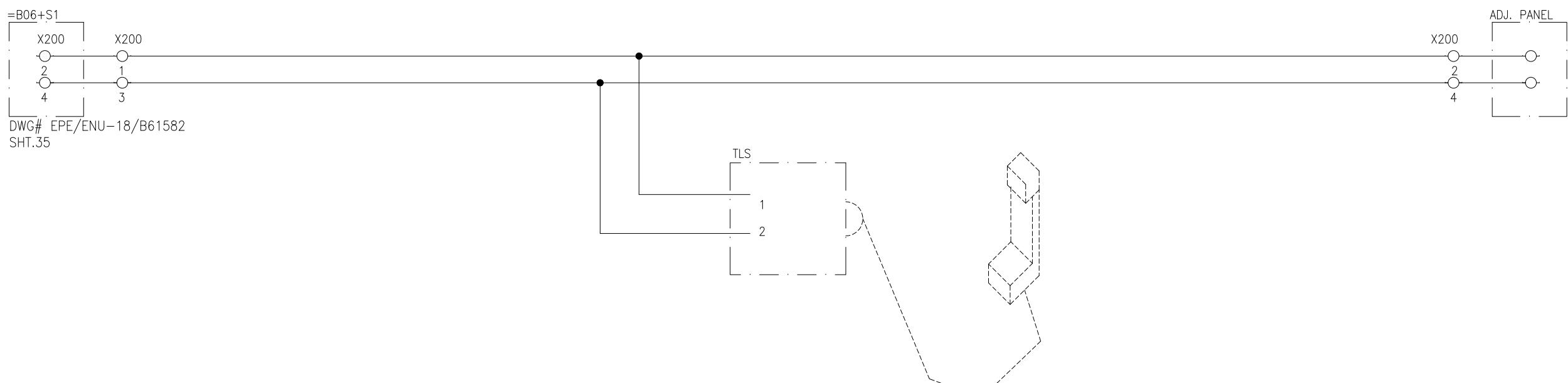
DWG# EPE/ENU-18/B61586 SHT: 40 OF 41
DATE: 07.03.2019 AS BUILT REV: 0

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

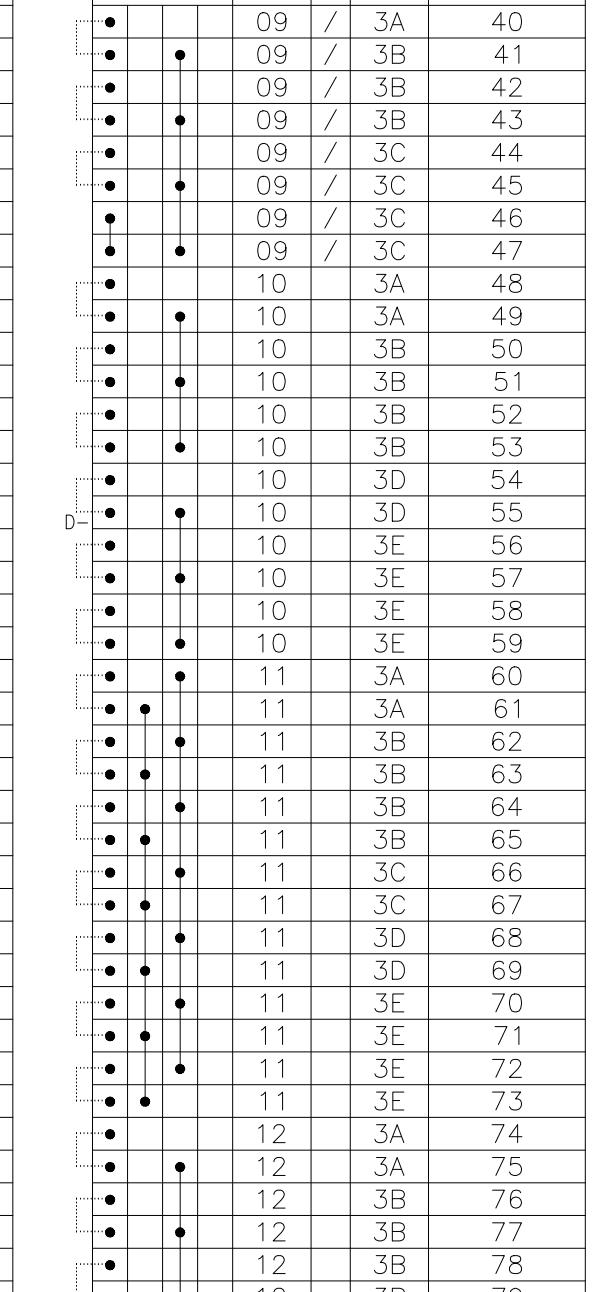
TELEPHONE
SOCKET

LEGEND

DES.	DESCRIPTION	TYPE	MAKE
TLS	TELEPHONE SOCKET	LOCAL	LOCAL

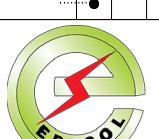






SCHEME DWG. REF: EPE/ENU-18/B61586

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+S2
NAH 	MSS 	MUR 		



E P E S O L Pvt. Ltd.

DWG# EPE/ENU-18/B61587 SHT: 02 OF 24
 DATE: 07.03.2019 AS BUILT REV: 0



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

DWG# EPE/ENU-18/B61587	SHT: 03 OF 24
DATE: 07.03.2019	AS BUILT REV: 0

Sr.	CABLE DESIGNATION		CORE CROSS SECTION		DESTINATION		LEGEND:		SCHEME DWG. REF: EPE/ENU-18/B61586																					
A	1																													
A	2																													
A	3																													
A	4																													
A	5																													
A	6																													
B	7																													
B	8																													
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B	11																													
B	12																													
C	1	2	3	4	5	6	7	8	9	10	11	12																		
D																														
E																														
F																														
APPROVED			CHECKED		DRAWN		PROJECT:				TITLE:				DWG# EPE/ENU-18/B61587				SHT: 04 OF 24											
NAH Q.			MSS M. Sohail		MUR Iy		NTDC PO# CE/MP&M/M(P)/AM-VI/E0/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS				TERMINAL DETAIL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2				EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan				DATE: 07.03.2019				AS BUILT				REV: 0			



SCHEME DWG. REF: EPE/ENU-18/B61586

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+S2	 EPESOL P v t . L t d . 71-B Garden Block, New Garden Town, Lahore, Pakistan	27	7	10	R25	11
NAH	MSS	MUR							DWG# EPE/ENU-18/B61587	SHT: 06 OF 24

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+S2	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61587	SHT: 07 OF 24
NAH	MSS M	MUR				DATE: 07.03.2019	AS BUILT

LEGEND



TEMPORARY SHORTENING LIN



PERMANENT LINK



END COVER

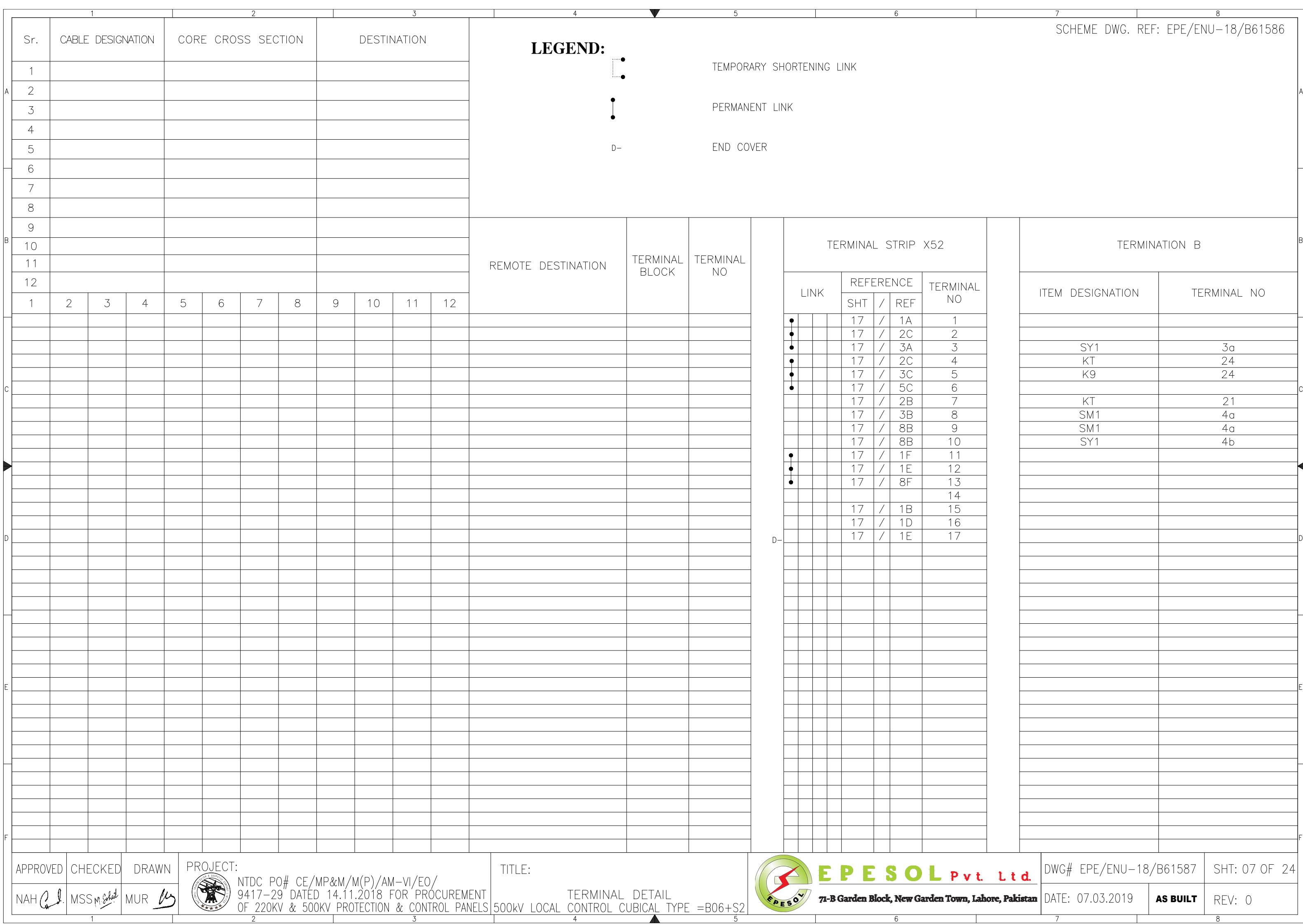
TERMINAL STRIP X5

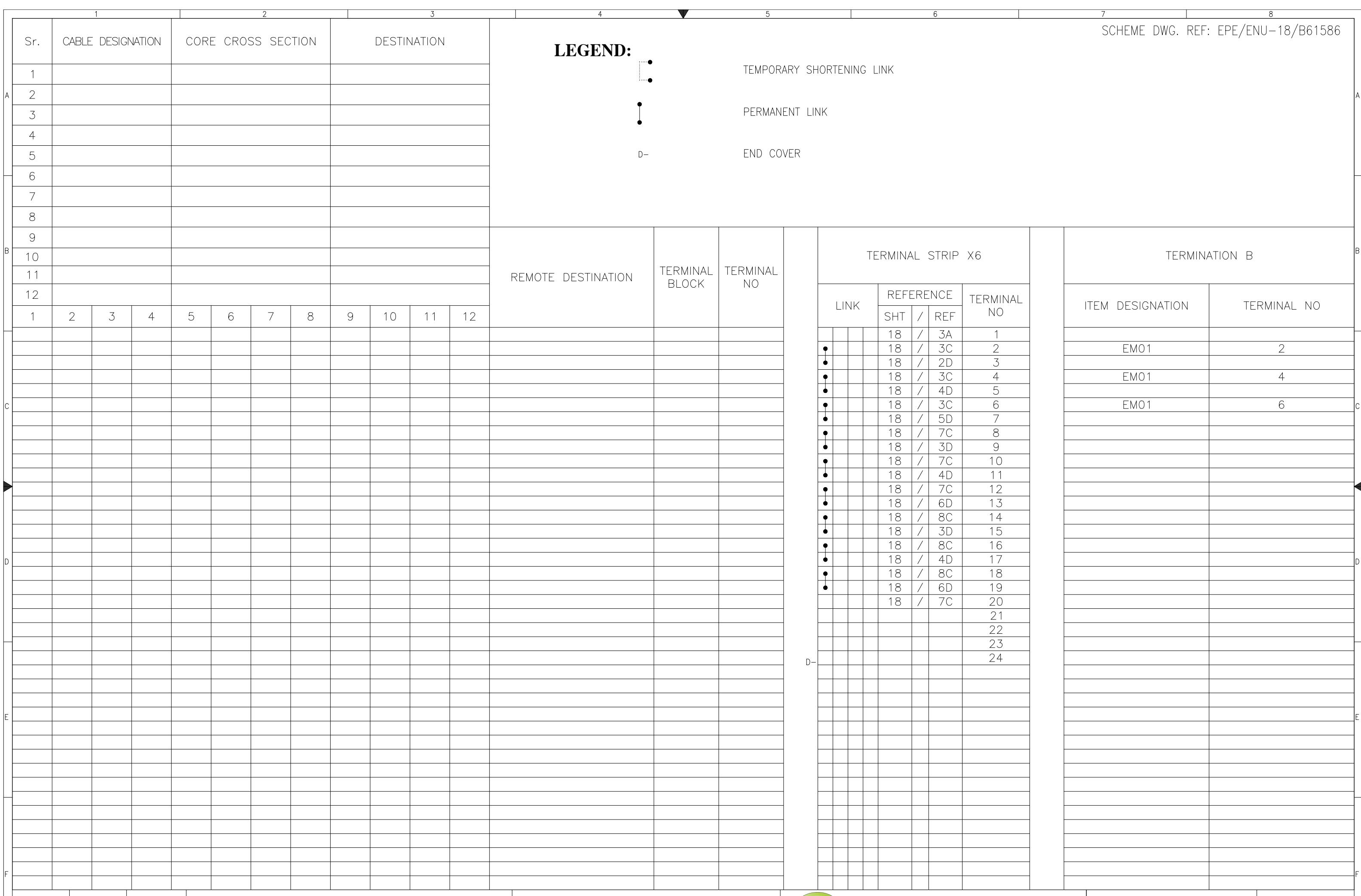
LINK	REFERENCE		TERM N	
	SHT	/	REF	
●	16	/	1A	1
●	16	/	2C	2
●	16	/	8A	3
●	16	/	6B	4
●	16	/	2C	5
●	16	/	4C	6
●	16	/	5C	7
	16	/	3B	8
	16	/	8B	9
	16	/	8B	1
●	16	/	1F	1
●	16	/	2E	1
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	16	/	2B	1
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●	16	/	7B	1
	16	/	7D	1
	16	/	1B	2
	16	/	1D	2
	16	/	1E	2
D-			2	

TERMINATION B

ITEM DESIGNATION	TERMINAL NO
SY1	1a
KCT	3
KT	14
K9	14
SM1	2a
SM1	2a
SY1	2b
KT	A2
KT	11
K9	A1

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+S2	 EPESOL PVT. LTD. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61587	SHT: 08 OF 24
NAH Q.I.	MSS M.Sohail	MUR <i>bz</i>				DATE: 07.03.2019	AS BUILT





SCHEME DWG. REF: EPE/ENU-18/B61586

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+S2	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61587	SHT: 11 OF 24
NAH	MSSM	MUR				DATE: 07.03.2019	AS BUILT

LEGEND



TEMPORARY SHORTENING LINK



PERMANENT LINK



END COVER

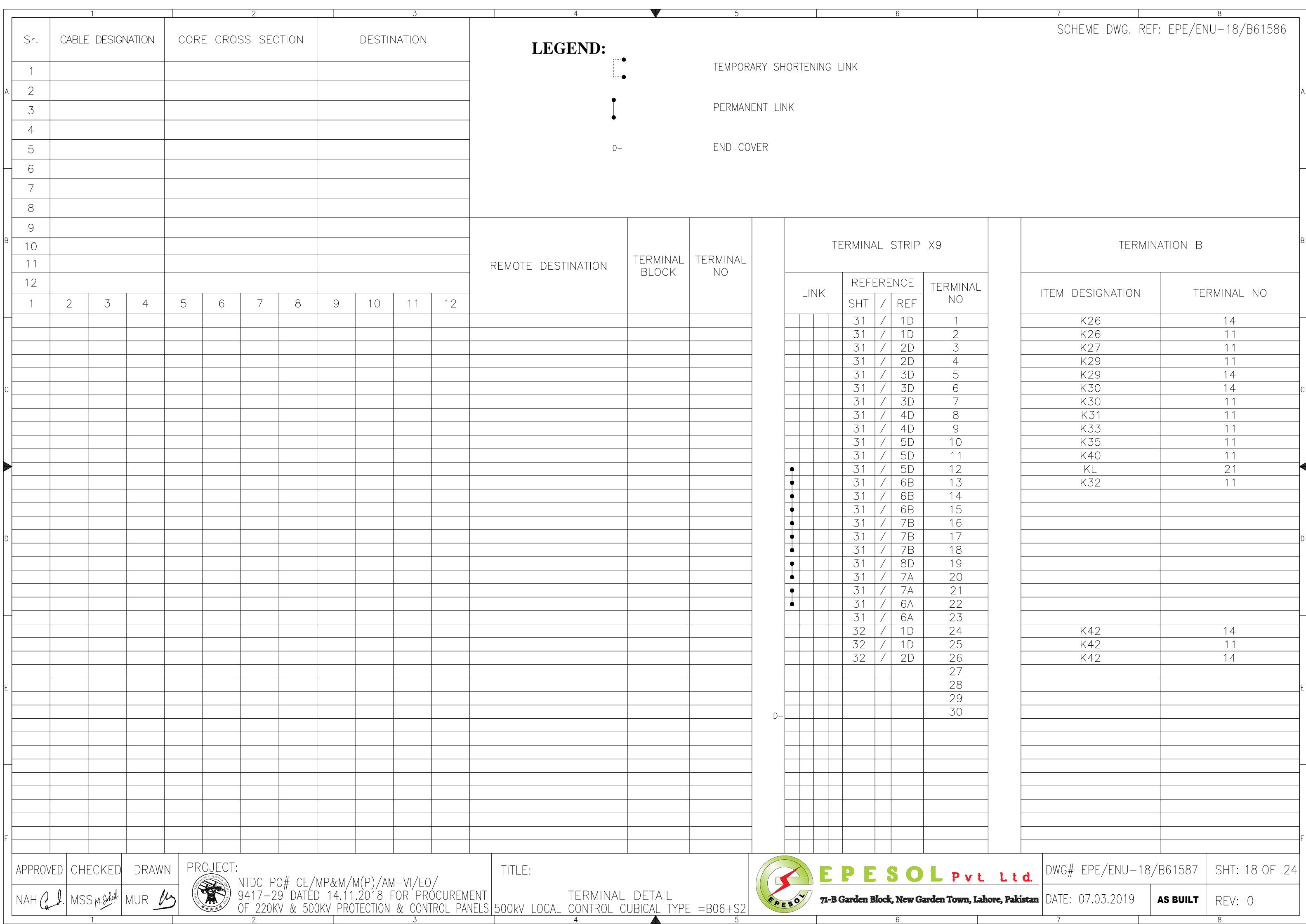
SCHEME DWG. REF: EPE/ENU-18/B61586

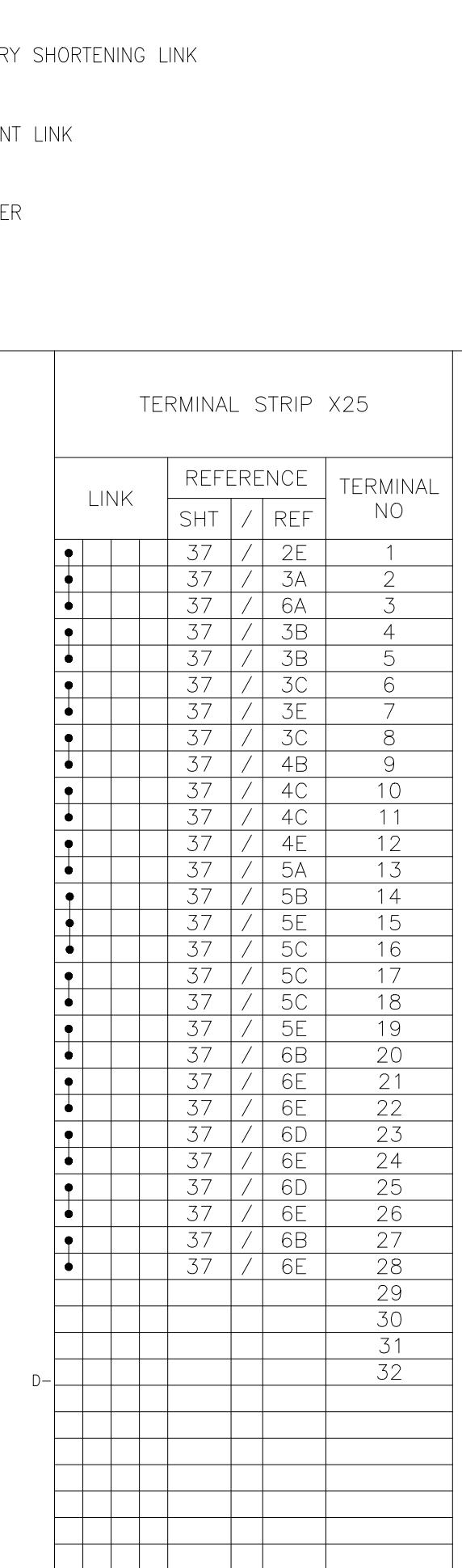
APPROVED	CHECKED	DRAWN	PROJECT:  NTDC PO# CE/MP&M/M(P)/AM-VI/E0/ 9417-29 DATED 14.11.2018 FOR PROCUREMENT OF 220KV & 500KV PROTECTION & CONTROL PANELS	TITLE: TERMINAL DETAIL 500KV LOCAL CONTROL CUBICAL TYPE =B06+S2	 E P E S O L P v t . L t d 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/B61587	SHT: 12 OF 24
NAH <i>[Signature]</i>	MSS <i>[Signature]</i>	MUR <i>[Signature]</i>				DATE: 07.03.2019	AS BUILT











SCHEME DWG. REF: EPE/ENU-18/B61586

LEGEND



TEMPORARY SHORTENING LINK



PERMANENT LINK



END COVER

REMOTE DESTINATION

TERMINAL

TERMINAL

TERMINAL STRIP X25

TERMINATION B

ITEM DESIGNATION

TERMINAL NO

APPROVED	CHECKED	DRAWN	PR
NAH <i>[initials]</i>	MSS <i>[initials]</i>	MUR <i>[initials]</i>	



1

1

PROJECT

The logo consists of the word "PROJECT:" in a bold, sans-serif font above a circular emblem. The emblem contains a stylized map of the United States with a grid overlay, and the text "TRANSMISSION & DISPATCH COMPANY" around the perimeter.

C PO# CE/MP&M/M(P)/AM-VI/EO/
7-29 DATED 14.11.2018 FOR PROCUREMENT
220KV & 500KV PROTECTION & CONTROL PANEL

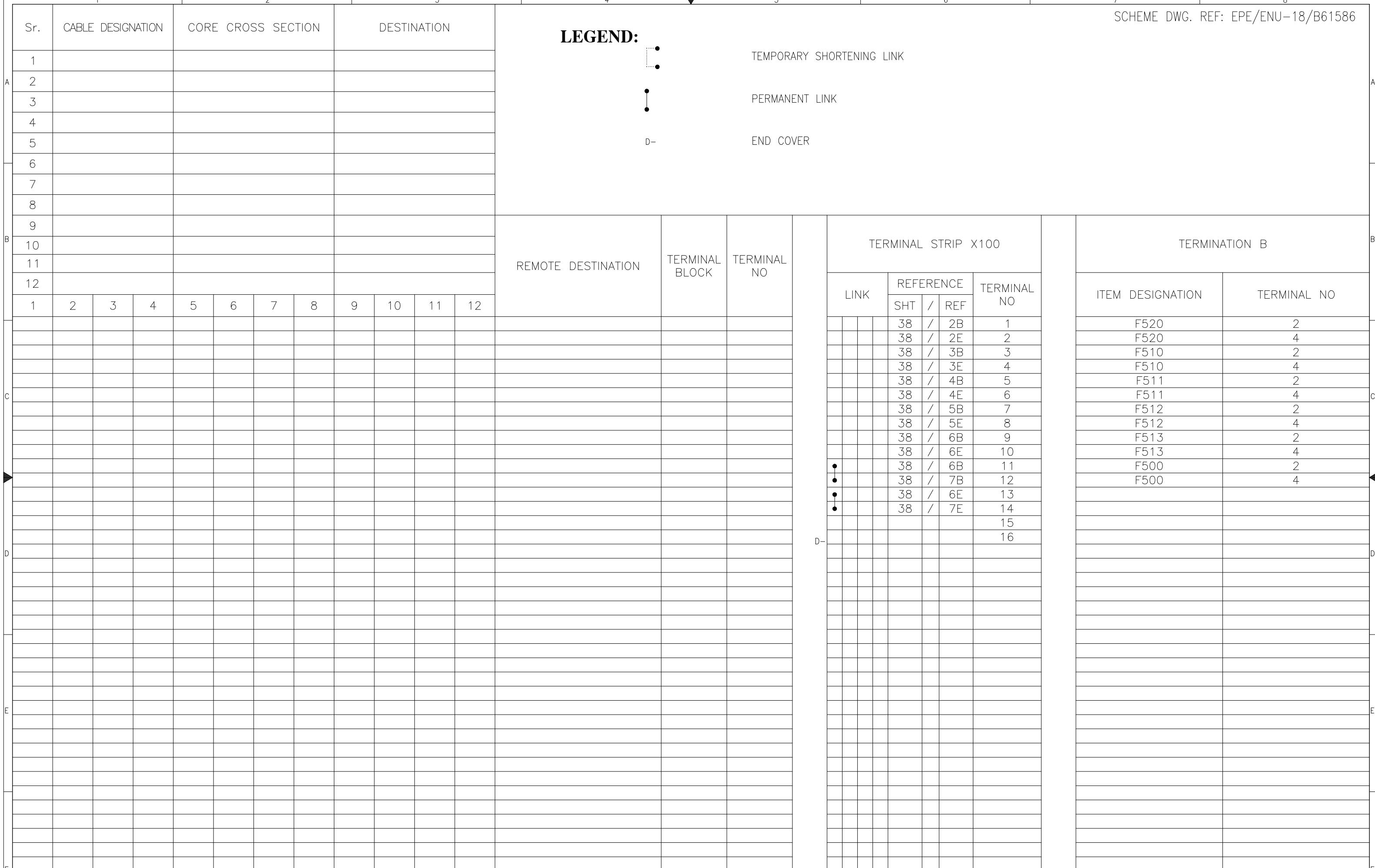
TITLE: TERMINAL DETAIL
NT 500KW LOCAL CONTROL CUBICAL TYPE -P06 LS2



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

DWG# EPE/ENU-18/B61587
DATE: 07.03.2019 AS BUILT

SHT: 21 OF 24



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
NAH *[Signature]*MSS *[Signature]*MUR *[Signature]*

TITLE:

 TERMINAL DETAIL
 500KV LOCAL CONTROL CUBICAL TYPE = B06+S2

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

DWG# EPE/ENU-18/B61587

SHT: 22 OF 24

DATE: 07.03.2019

REV: 0

AS BUILT

