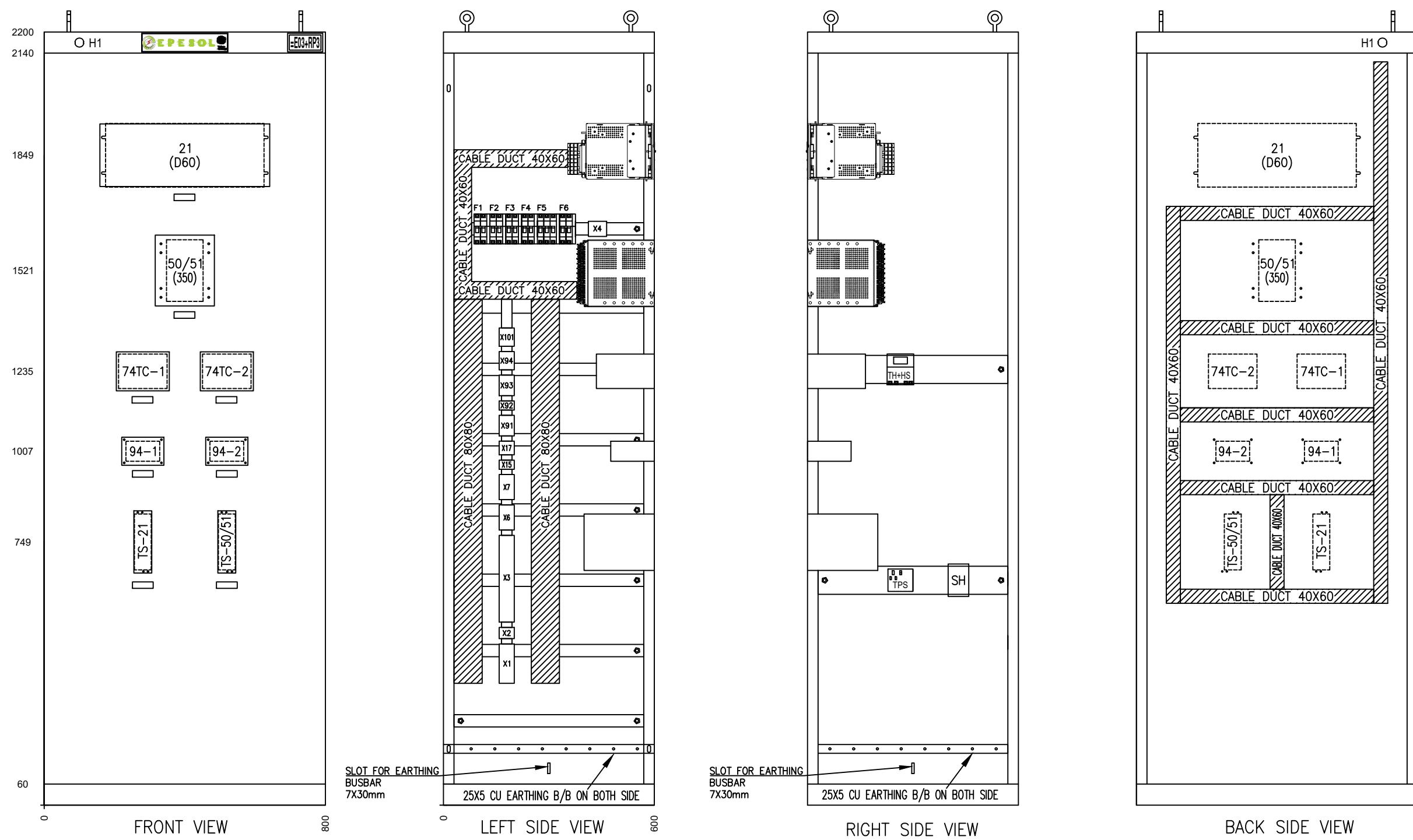


LAYOUT DRAWING

132kV LINE PROTECTION PANEL

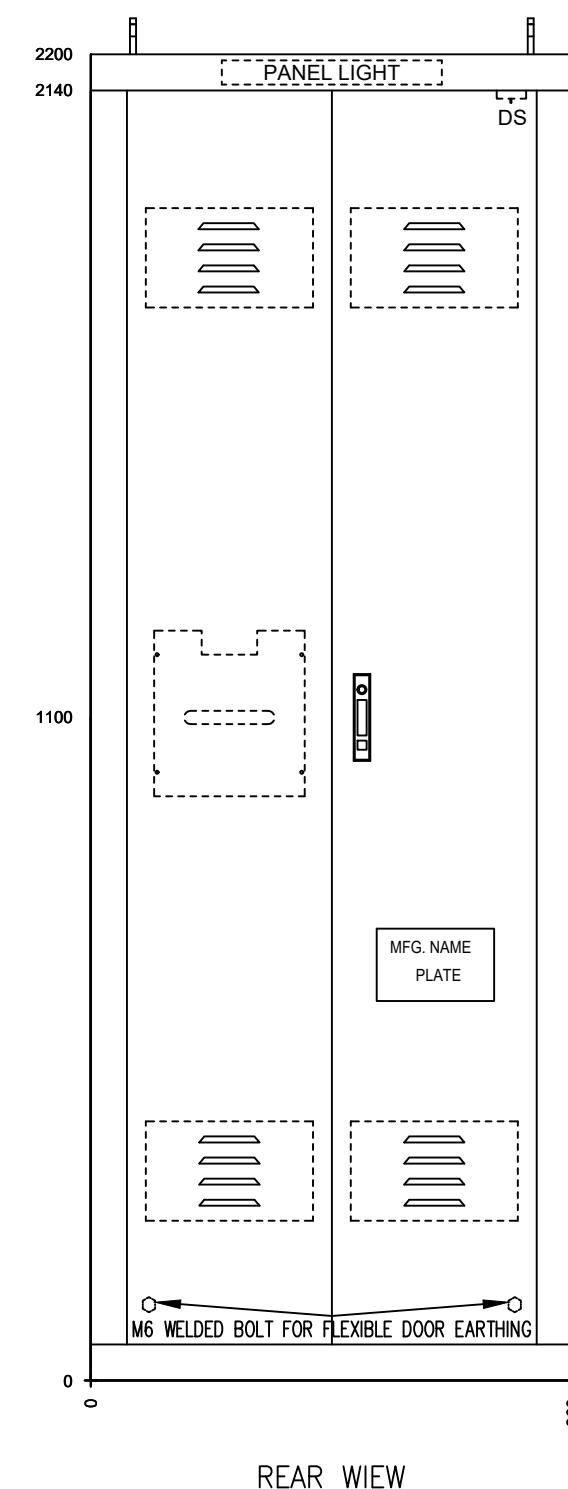
TYPE RP3

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132KV RELAY, CONTROL PANELS	TITLE: COVER SHEET 132kV LINE PROTECTION PANEL TYPE RP3	DWG# EPE/ENU-18/P1427	SHT: 01 OF 03
NAH	MFT	MUR		 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DATE:15.02.2019	AS BUILT

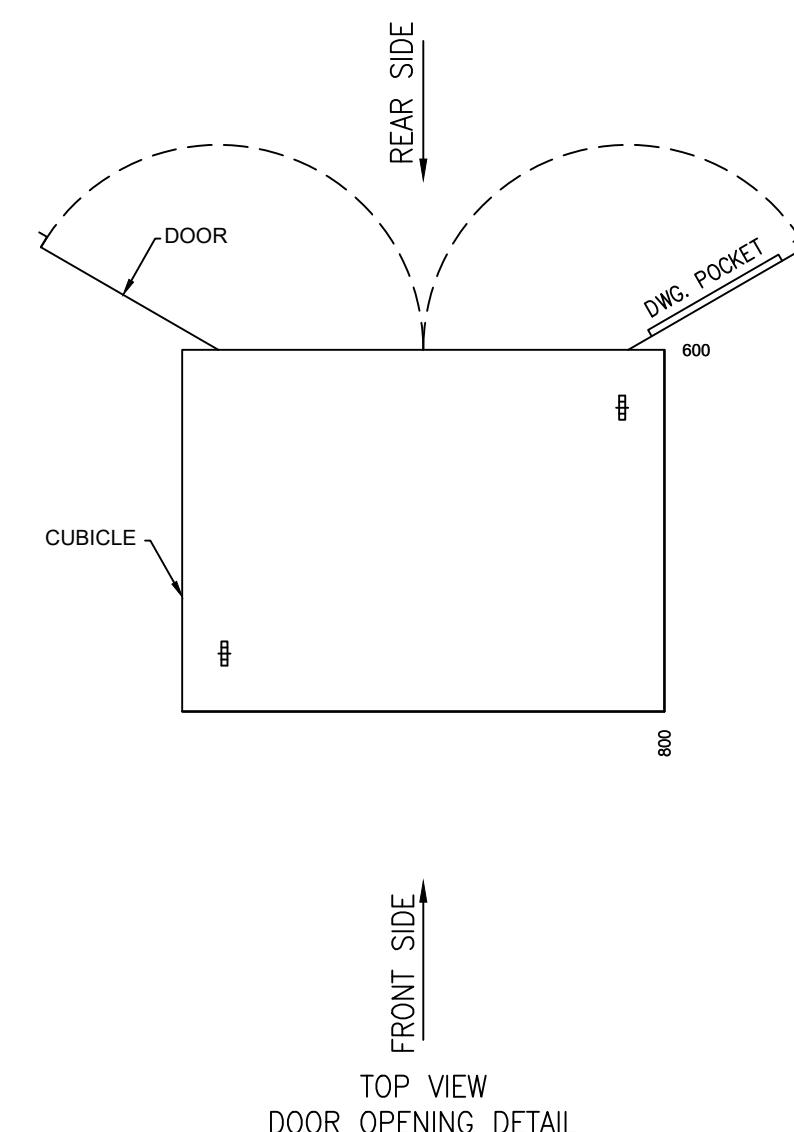
**NOTES**

1. RELAY PANEL: 800x600x2200 mm
2. FACE SHEET : 800x2200 mm²
3. EARTHING STRIP 25x5 mm²
4. EARTHING STRAP 16mm²
5. COLOR: RAL7032
6. PROTECTION CLASS: IP51
7. APPLICABLE SPECS: P-151:2008

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: LAYOUT DIAGRAM 132kV LINE PROTECTION PANEL TYPE RP3	DWG# EPE/ENU-18/P1427 DATE:15.02.2019	SHT: 02 OF 03 AS BUILT REV: 0
NAH	MFT	MUR				



PANEL LIGHT

TOP VIEW
DOOR OPENING DETAIL

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: LAYOUT DIAGRAM 132kV LINE PROTECTION PANEL TYPE RP3	EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1427 DATE:15.02.2019	SHT: 03 OF 03 AS BUILT REV: 0
NAH	MFT	MUR					

LIST OF APPARATUS

132kV LINE PROTECTION PANEL

TYPE RP3

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: COVER SHEET 132kV LINE PROTECTION PANEL TYPE RP3	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1428	SHT: 01 OF 03
NAH	RAA	MUR				DATE:15.02.2019	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	21 (D60)	DISTANCE PROTECTION RELAY		1	D60	GE	CANADA	D60-U03-HKH-F8L-H6P-M6C-PXX	16
								UXX-WXX		A
B	2	50/51 (350)	OVER CURRENT & EARTH FAULT PROTECTION RELAY		1	350	GE	SPAIN	350-E-P5-G5-H-E-E-N-N-3E-D-N	17
										B
B	3	94-1, 94-2	TRIP RELAY, SELF RESET TYPE, 8 C/O CONTACTS, HIGH BURDEN, 110 VDC WITH BASE		2	RJ-8R	ARTECHE	SPAIN	RJ-8R-HB-110VDC-OP-01110	08
										B
B	4	TS-21, TS-50/51	TEST BLOCK (14 FINGER)		2	saTECH TSB 14	ARTECHE	SPAIN	TSB14-111111222AAAB-V	18
								TSB14-111111111AAAB-V		B
B	5	F1,F2	DC MCB, 2 POLE, 10A, WITH ONE C/O CONTACT, 10kA		2	EP100	GE	HUNGARY	EP102UCC10+(CAH1)	07
										B
B	6	F3,F4	AC MCB, 2 POLE, 10A, WITH ONE C/O CONTACT, 6kA		2	G60	GE	HUNGARY	G62C10+(CAH1)	14
										B
B	7	F5	AC MCB, 3 POLE, 4A WITH TWO C/O CONTACT, 6kA		1	G60	GE	HUNGARY	G63C04+(CAH2)	05
										B
C	8	F6	AC ELCB, 2POLE, 16A, 30mA, WITH ONE C/O CONTACT		1	DM100	GE	HUNGARY	DM100C16/030+(CAH1)	14
										C
C	9	74TC-1, 74TC-2	TRIP CIRCUIT SUPERVISION RELAY		2	TS101	E-LABS	PAKISTAN	TS101	10
										C
C	10	TH+HS	THERMOSTAT AND HUMIDSTAT		1	ELH-220	E-LABS	PAKISTAN	ELH-220	14
										C
C	11	SH	SPACE HEATER		1	ELH-220	E-LABS	PAKISTAN	ELH-220	14
										C
D	12	DS	DOOR SWITCH WITH COVER		1	YSP+YSMS	YONGSUNG	SOUTH KOREA	YSP3315GWB+YSMS-C	14
										D
D	13	IL	CUBICLE LIGHTING , 3W, 260 VAC		1	YST8	YONGSUNG	SOUTH KOREA	YST8-30-5W	14
										D
D	14	TPS	240 VAC, 16A, THREE PIN SOCKET OUTLET		1		LEAR	CHINA		14
										D
D	15	H1	INDICATION LAMP RED		1	YSPL	YONGSUNG	SOUTH KOREA	YSPL2-DL12RW	08
										D
E	16	X1	DISCONNECTING TERMINAL BLOCK (SCREW TYPE) FOR CT CIRCUIT WITH SHORTENING ARRANGEMENT		14	SCB-6	CABUR	ITALY		E
										E
E	17	X2	DISCONNECTING TERMINAL BLOCK (SCREW TYPE) FOR VT CIRCUITS		4	SCB-6	CABUR	ITALY		E
										E
E	18	X3	TERMINAL BLOCKS FOR CONTROL FUNCTION		40	CBD-4	CABUR	ITALY		E
										E
F	19	X6	TERMINAL BLOCKS FOR TRIP CIRCUIT 1		11	CBD-4	CABUR	ITALY		F
										F
F	20	X7	TERMINAL BLOCKS FOR TRIP CIRCUIT 2		11	CBD-4	CABUR	ITALY		F
										F
F	21	X15	TERMINAL BLOCKS FOR RS485 COMMUNICATION		4	CBD-4	CABUR	ITALY		F
										F
APPROVED	CHECKED	DRAWN	PROJECT:  DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: LIST OF APPARATUS 132kV LINE PROTECTION PANEL TYPE RP3	 EPESOL Pvt Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1428		SHT: 02 OF 03		
NAH	RAA	MUR						DATE:15.02.2019	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	22	X17	TERMINAL BLOCKS FOR AC SUPPLY DISTRIBUTION			10	CBD-4	CABUR	ITALY		A
	23	X91	TERMINAL BLOCKS FOR ANNUNCIATION ALARMS			11	CBD-4	CABUR	ITALY		
	24	X92	TERMINAL BLOCKS FOR ANNUNCIATION ALARMS			9	CBD-4	CABUR	ITALY		
B	25	X93	TERMINAL BLOCKS FOR ANNUNCIATION ALARMS			11	CBD-4	CABUR	ITALY		B
	26	X94	TERMINAL BLOCKS FOR ANNUNCIATION ALARMS			10	CBD-4	CABUR	ITALY		
	27	X101	TERMINAL BLOCKS FOR DC SUPPLY DISTRIBUTION			8	CBD-4	CABUR	ITALY		
	28	X4	SPARE TERMINAL BLOCKS			8	CBD-4	CABUR	ITALY		
c											c
D											D
E											E
F											F

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: LIST OF APPARATUS 132kV LINE PROTECTION PANEL TYPE RP3	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1428	SHT: 03 OF 03	
NAH	RAA	MUR				DATE:15.02.2019	AS BUILT	REV: 0

SCHEMATIC DIAGRAMS

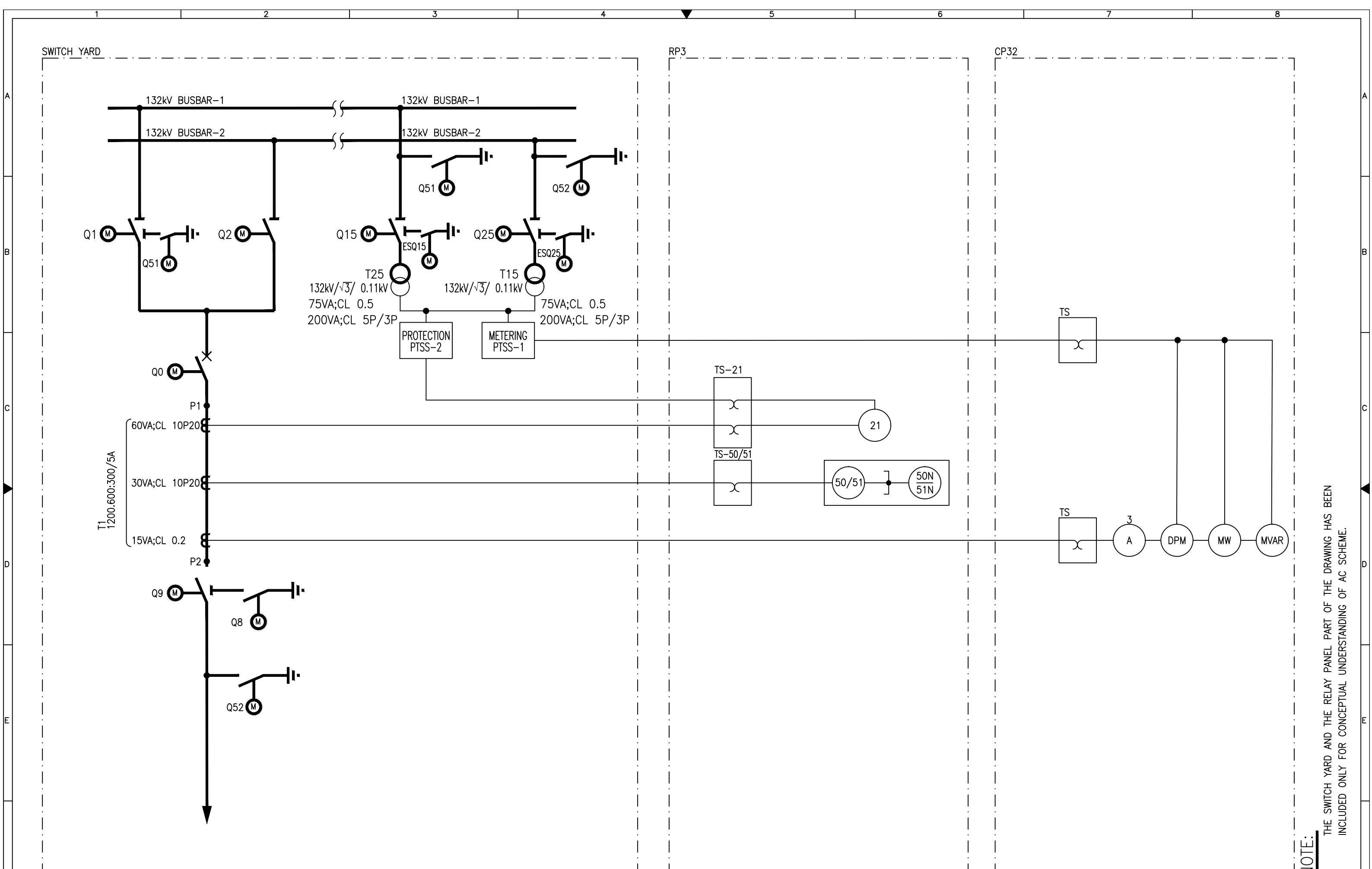
132kV LINE PROTECTION PANEL

TYPE RP3

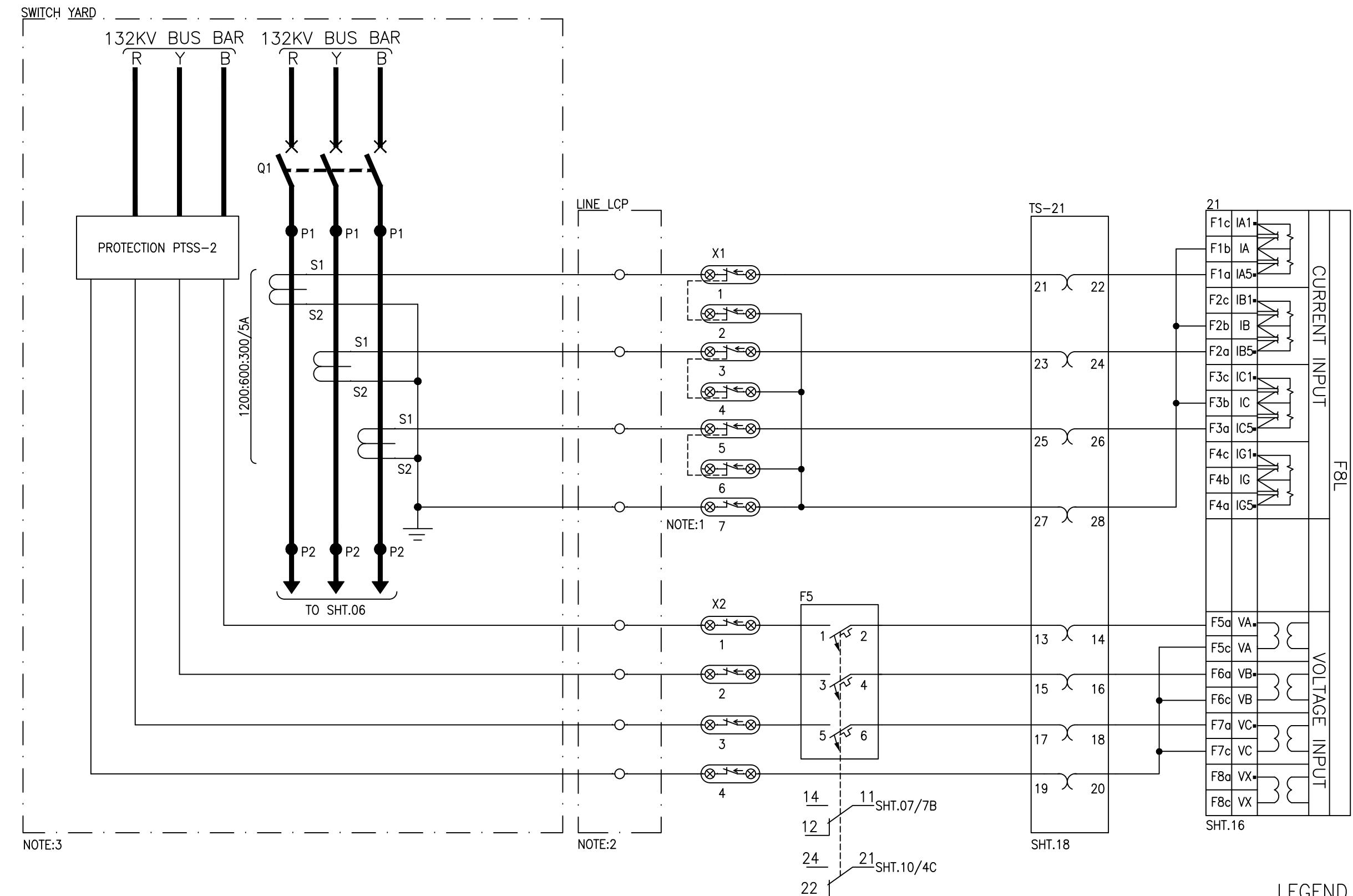
APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: COVER SHEET 132kV LINE PROTECTION PANEL TYPE RP3	E P E S O L P v t . L t d. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1429 DATE:15.02.2019	SHT: 01 OF 18 AS BUILT REV: 0
NAH	RAA	MUR					

DESCRIPTION	SHEET NO
COVER SHEET	01
LIST OF CONTENTS	02
LIST OF SYMBOLS	03
SINGLE LINE DIAGRAM	04
AC SCHEMATIC DIAGRAM	05
AC SCHEMATIC DIAGRAM	06
21 BINARY INPUTS & 21,50/51 CONTROL SUPPLY	07
TRIP RELAY INITIATION	08
PROTECTION ALARMS	09
PROTECTION ALARMS	10
CB TRIP CIRCUIT-1	11
CB TRIP CIRCUIT-2	12
TRIP CIRCUIT INDICATIONS & 50/51 SPARE I/Os	13
AC SUPPLY DISTRIBUTION	14
RS485 COMMUNICATION	15
DISTANCE RELAY TYPE D60 DETAILS	16
OC & EF RELAY TYPE 350 & TRIP CKT SUPVN. RELAY DETAILS	17
TEST BLOCK TYPE TSB-14 DETAILS	18

LIST OF SYMBOLS			
	HV DISCONNECTOR		COIL
	HV CIRCUIT BREAKER		EQUIPMENT WITHIN PANEL
	CURRENT TRANSFORMER		INDEPENDENT PANEL
	VOLTAGE TRANSFORMER		INDEPENDENT PANEL
	132/11 KV POWER TRANSFORMER	21	DISTANCE RELAY
	RELAY PANEL TERMINAL BLOCK	50/51	OVER CURRENT EARTH FAULT RELAY
	CONTROL PANEL TERMINAL BLOCK	TS	TEST BLOCK
	EARTH CONNECTION	94	TRIP RELAY SELF RESET
	TEST BLOCK TERMINAL	74TC	TRIP CIRCUIT SUPERVISION RELAY
	NORMALLY CLOSED CONTACT	X	TERMINAL BLOCK
	NORMALLY OPEN CONTACT		DISCONNECTING TERMINAL BLOCK (SCREW TYPE) WITH SLIDING LINK (USED WITH X1 & X2)
	CHANGE OVER CONTACT		
	MINIATURE CIRCUIT BREAKER		
	INDICATING BULB/LED/CUBICLE LIGHT		
	220V SOCKET		
	SPACE HEATER		
	DIODE		



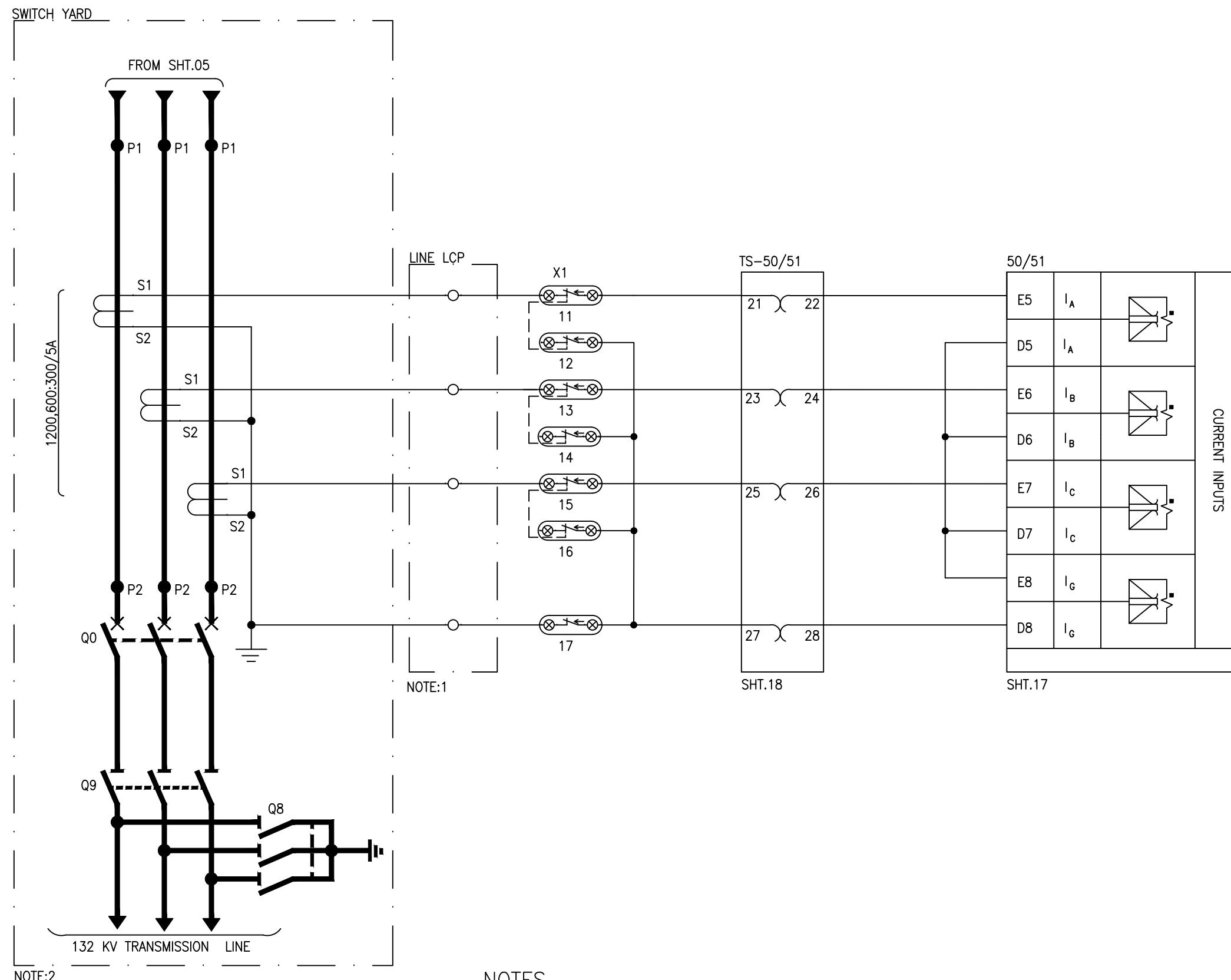
APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: SINGLE LINE DIAGRAM 132kV LINE PROTECTION PANEL TYPE RP3	EPESOL Pvt Ltd 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1429	SHT: 04 OF 18
NAH	RAA	MUR				DATE:15.02.2019	AS BUILT



NOTES

1. ALL CT WIRING SHALL OF 4mm² WIRES
2. ALL VT WIRING SHALL OF 2.5mm² WIRES
3. THE SWITCH YARD PART IS INCLUDED FOR CONCEPTUAL UNDERSTANDING OF AC SCHEME.

DES:	DESCRIPTION	TYPE	MAKE
TS-21	TEST BLOCK	saTECH	ARTECHE
21	DISTANCE RELAY	D60	GE
F5	THREE POLE AC MCB	G60	GE

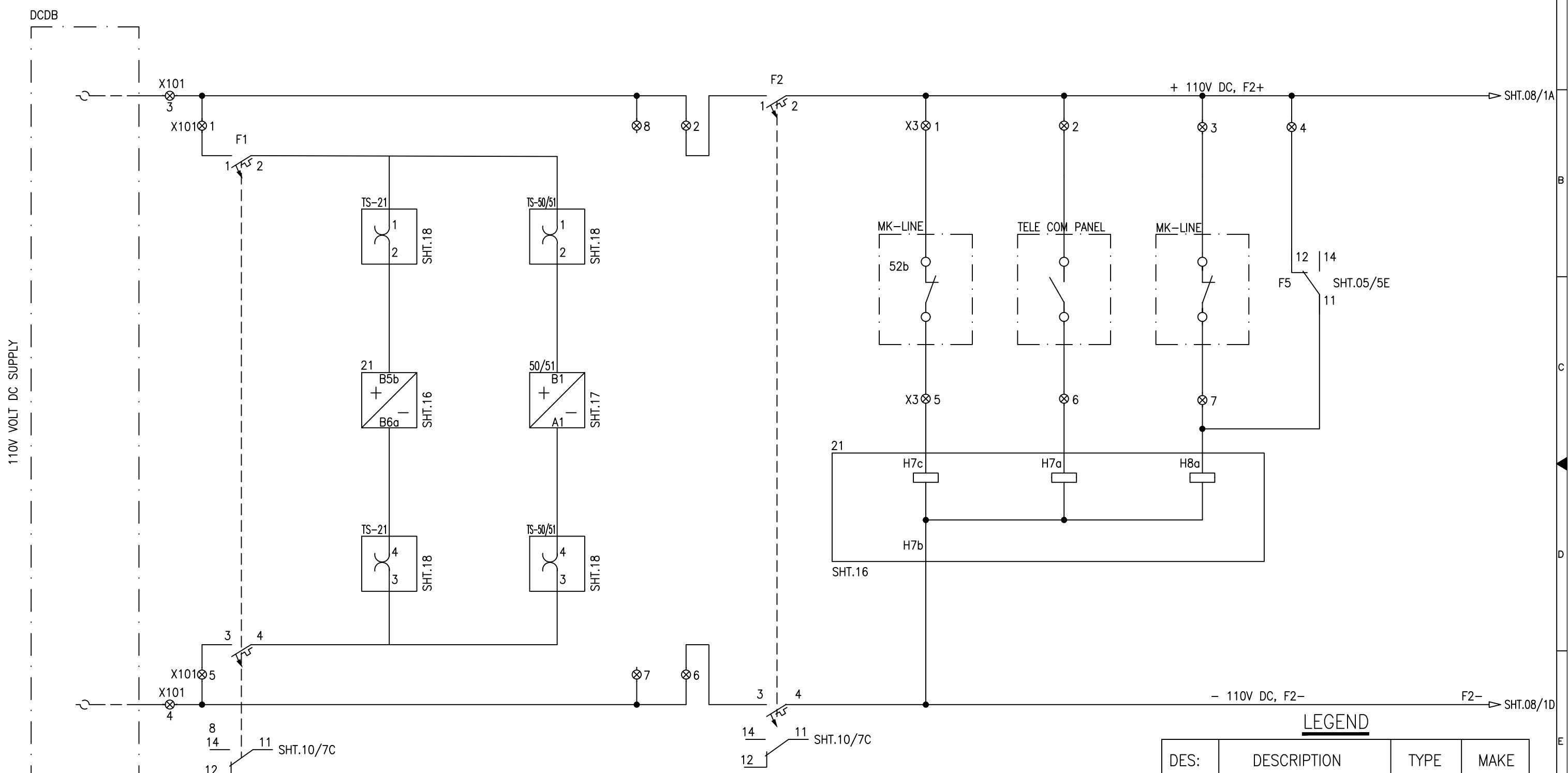
NOTES

1. ALL CT WIRING SHALL OF 4mm² WIRES
2. THE SWITCH YARD PART IS INCLUDED FOR CONCEPTUAL UNDERSTANDING OF AC SCHEME ONLY.

LEGEND

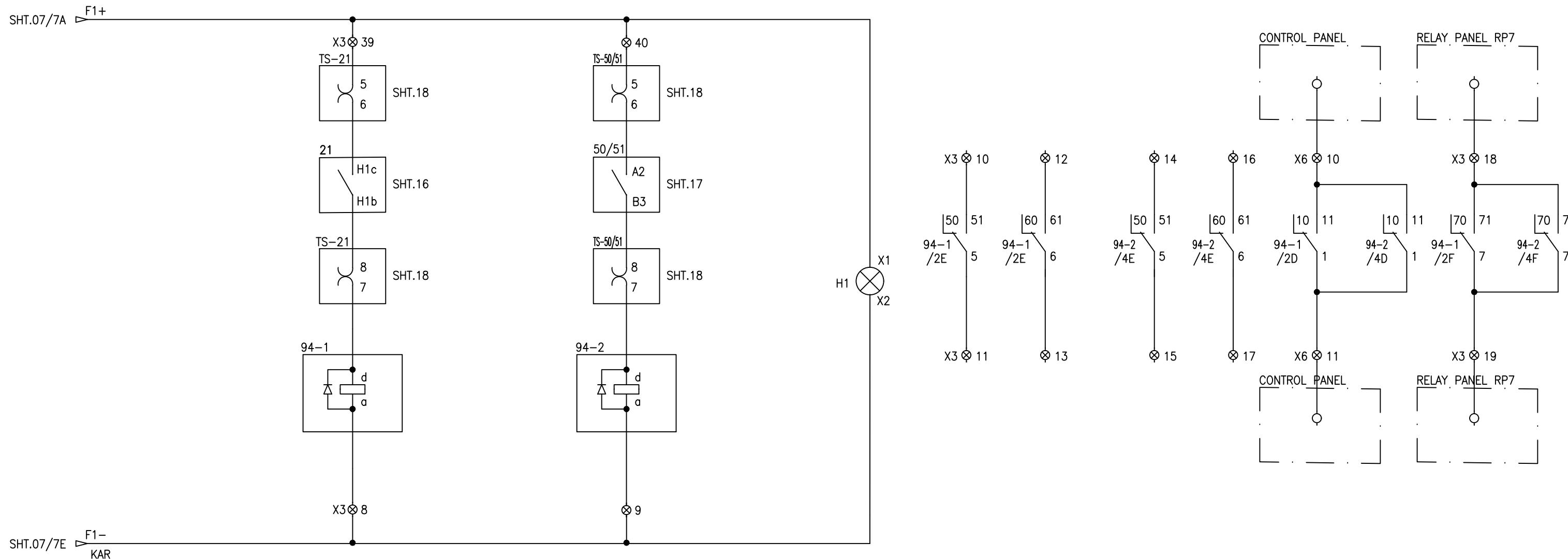
DES:	DESCRIPTION	TYPE	MAKE
TS-50/51	TEST BLOCK	saTECH	ARTECHE
50/51	OC & EF RELAY	350	GE

1 2 3 4 5 6 7 8

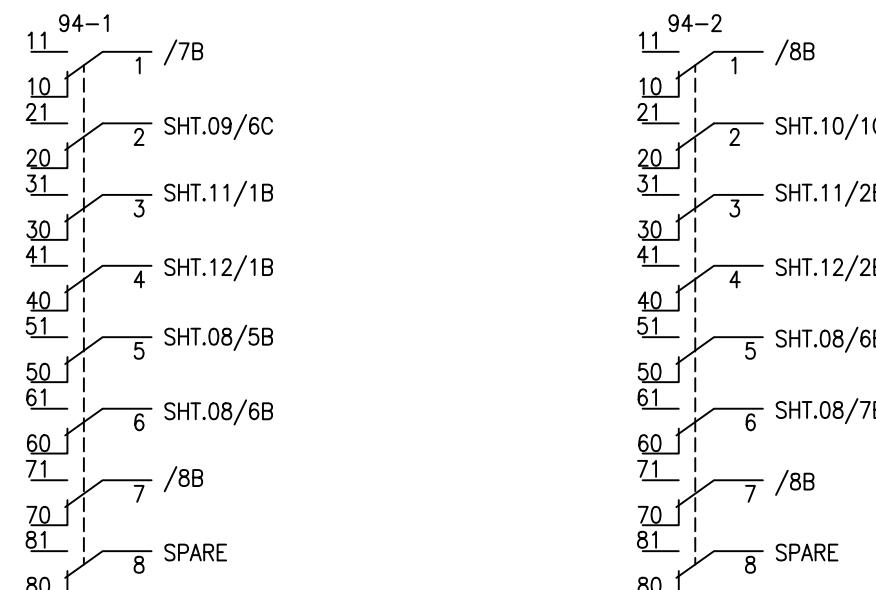
110V DC SUPPLY
DISTANCE RELAY O/C & E/F RELAYCB OPEN DISTANCE PROTECTION VT MCB TRIPPED
CARRIER RECEIVE VT BOX PANEL MCB

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: 21 BINARY INPUTS & 21,50/51 CONTROL SUPPLY 132kV LINE PROTECTION PANEL TYPE RP3	EPE SOL Pvt Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1429 DATE:15.02.2019	SHT: 07 OF 18 AS BUILT REV: 0
NAH	RAA	MUR					

DISTANCE PROTECTION RELAY GENERAL TRIP	OC & EF PROTECTION RELAY GENERAL TRIP	LAMP FOR DC HEALTHY	OUT PUT CONTACTS 94-1 SPARES 94-2 SPARES	FOR CB TRIP ALARM	BF INITIATION
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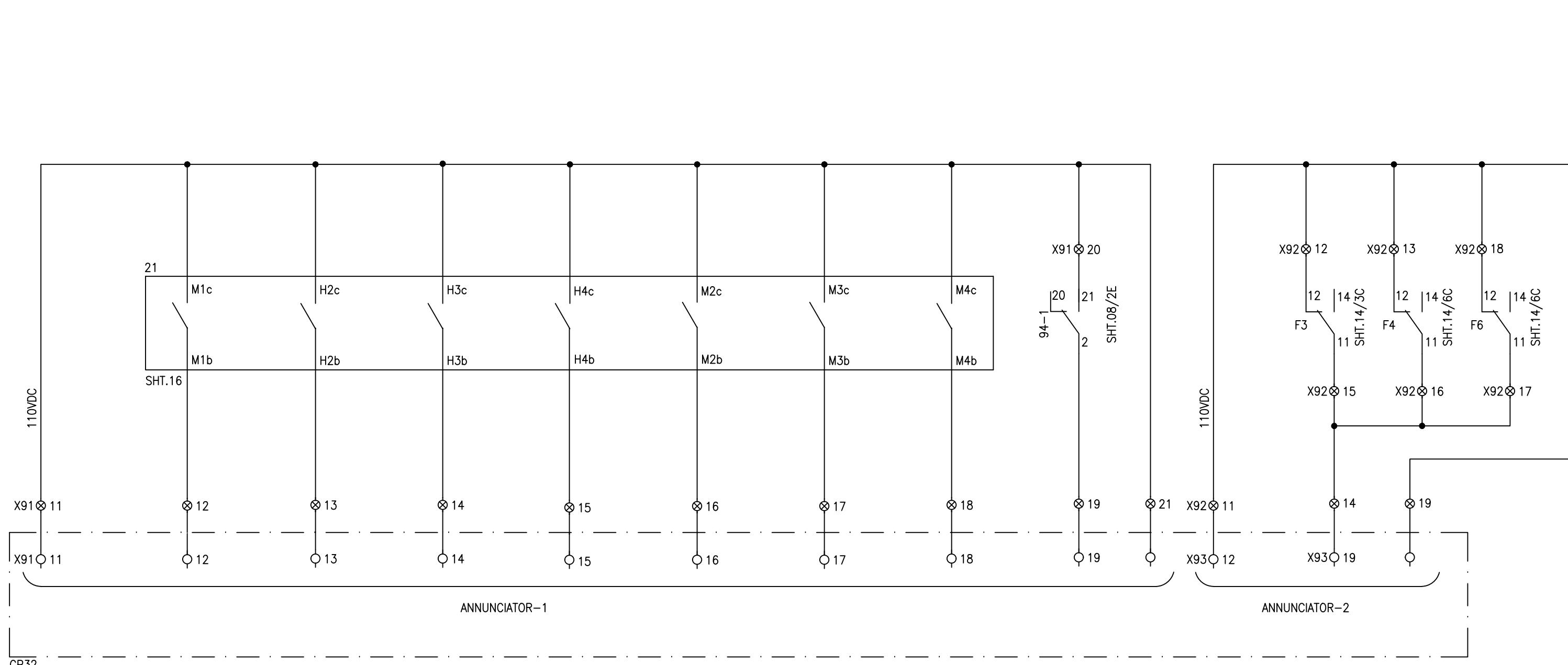
LEGEND

DES:	DESCRIPTION	TYPE	MAKE
TS-X	TEST BLOCK	sATECH	ARTECHE
21	DISTANCE RELAY	D60	GE
94-1,94-2	TRIP RELAY SELF RESET	RJ-8R	ARTECHE
50/51	OC & EF RELAY	350	GE
H1	INDICATION LAMP RED	YSPL	YONGSUNG



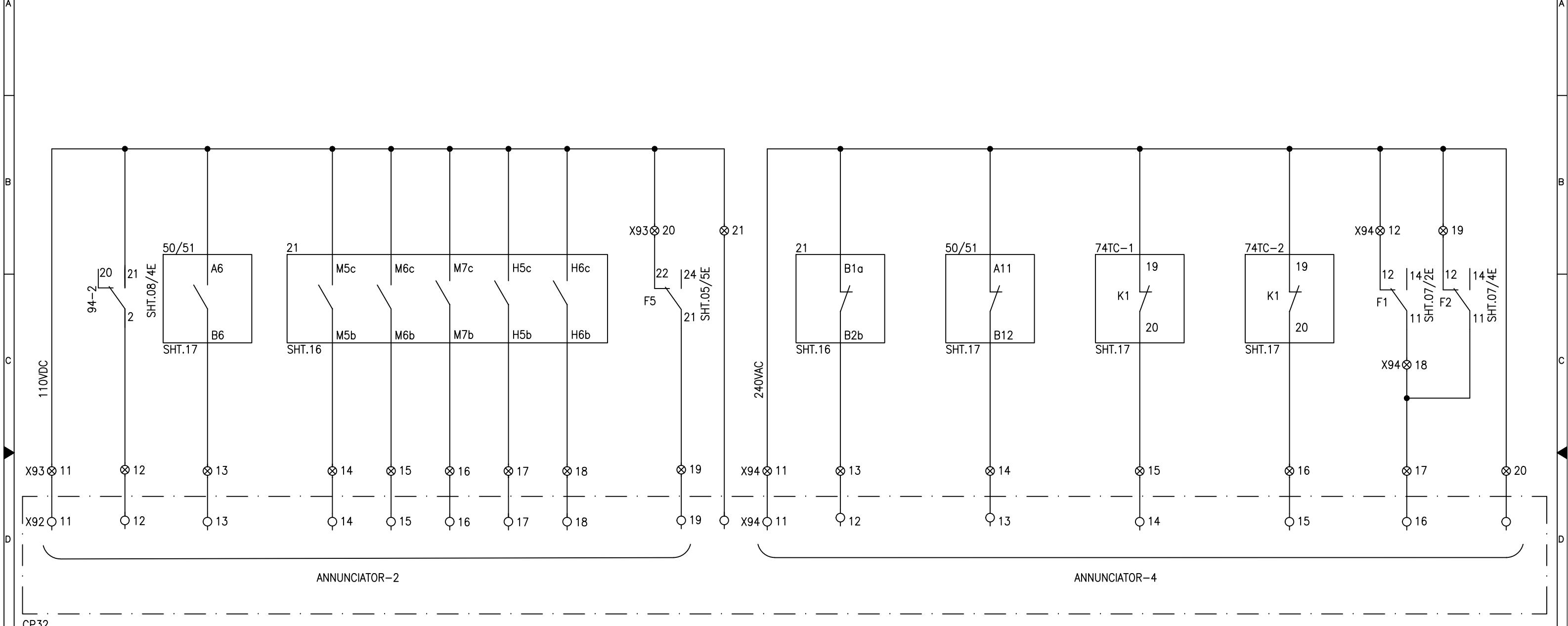
DISTANCE PROTECTION RELAY

PICKUP	R PHASE TRIP	Y PHASE TRIP	B PHASE TRIP	ZONE-1 TRIP	ZONE-2 TRIP	ZONE-3 TRIP	GENERAL TRIP	RELAY PANEL AC FAIL
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LEGEND

DES:	DESCRIPTION	TYPE	MAKE
21	DISTANCE RELAY	D60	GE
94-1	TRIP RELAY SELF RESET	RJ-8R	ARTECHE

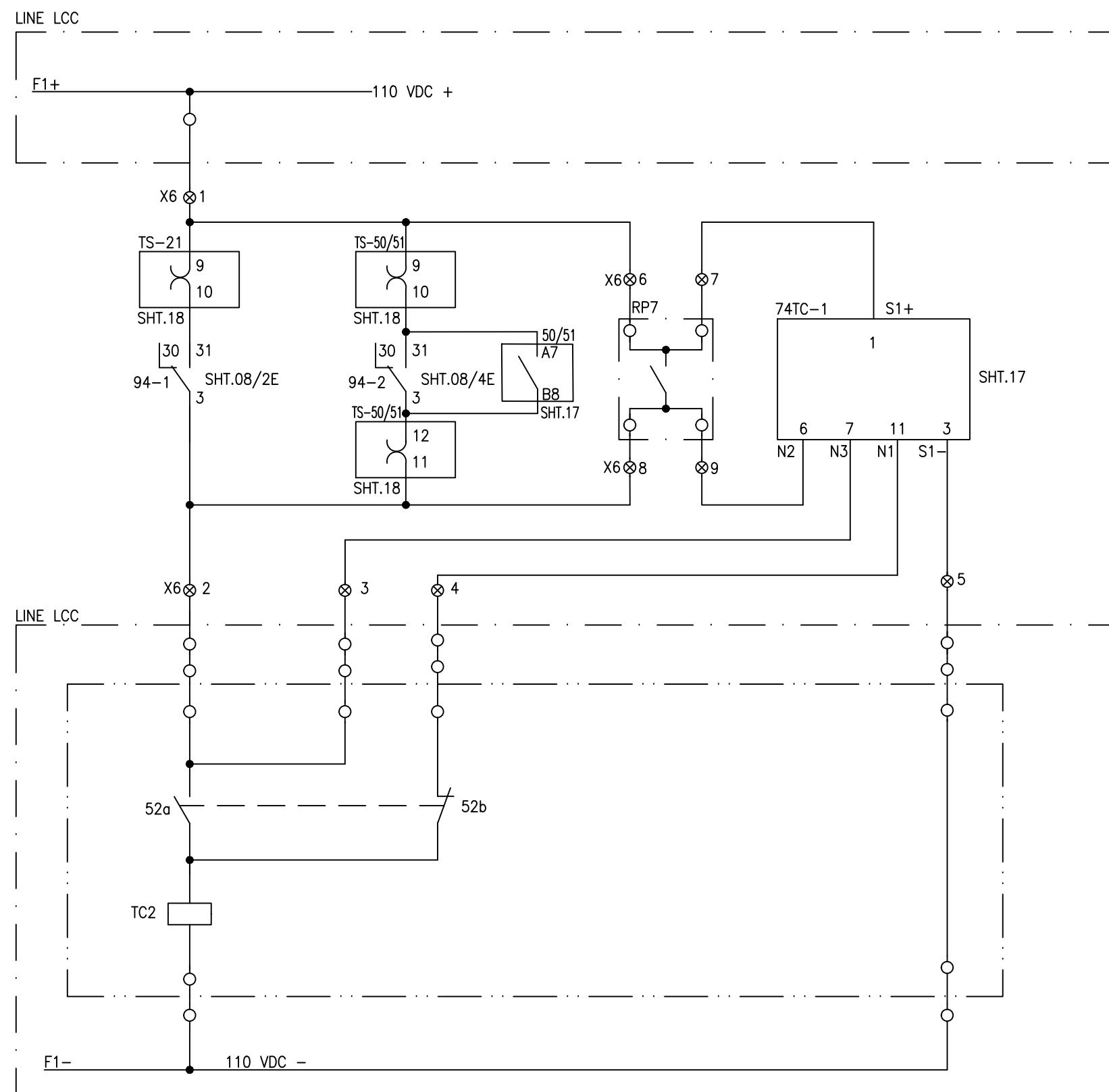
50/51 GENERAL TRIP	50/51 HIGH SET TRIP	CARRIER RECEIVE	CARRIER POWER SWING SEND	AUTO RECLOSER BLOCKED	AUTO RECLOSER OPERATED	VT MCB TRIPPED	21 FAULTY	50/51 FAULTY	TRIP CIRCUIT-1 FAULTY	TRIP CIRCUIT-2 FAULTY	RELAY PANEL DC MCB TRIPPED
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LEGEND

DES:	DESCRIPTION	TYPE	MAKE
50/51	OC & EF RELAY	350	GE
21	DISTANCE RELAY	D60	GE
74TC-1	TRIP CIRCUIT SUPER-VISION RELAY	TS101	ELABS
74TC-2	TRIP CIRCUIT SUPER-VISION RELAY	TS101	ELABS

LEGEND

DES:	DESCRIPTION	TYPE	MAKE
F1,F2	DC MCB TWO POLE	EP-100	GE
F5	AC MCB THREE POLE	G60	GE

TRIP RELAY-21 TRIP RELAY-50/51 BB/BF TRIP CIRCUIT-1
SUPERVISION

NOTE:

LEGEND

DES:	DESCRIPTION	TYPE	MAKE
74TC-1	TRIP CIRCUIT SUPERVISION RELAY	TS101	ELABS
94-X	TRIP RELAY SELF RESET	RJ-8R	ARTECHE
TS-X	TEST BLOCK	saTECH	ARTECHE

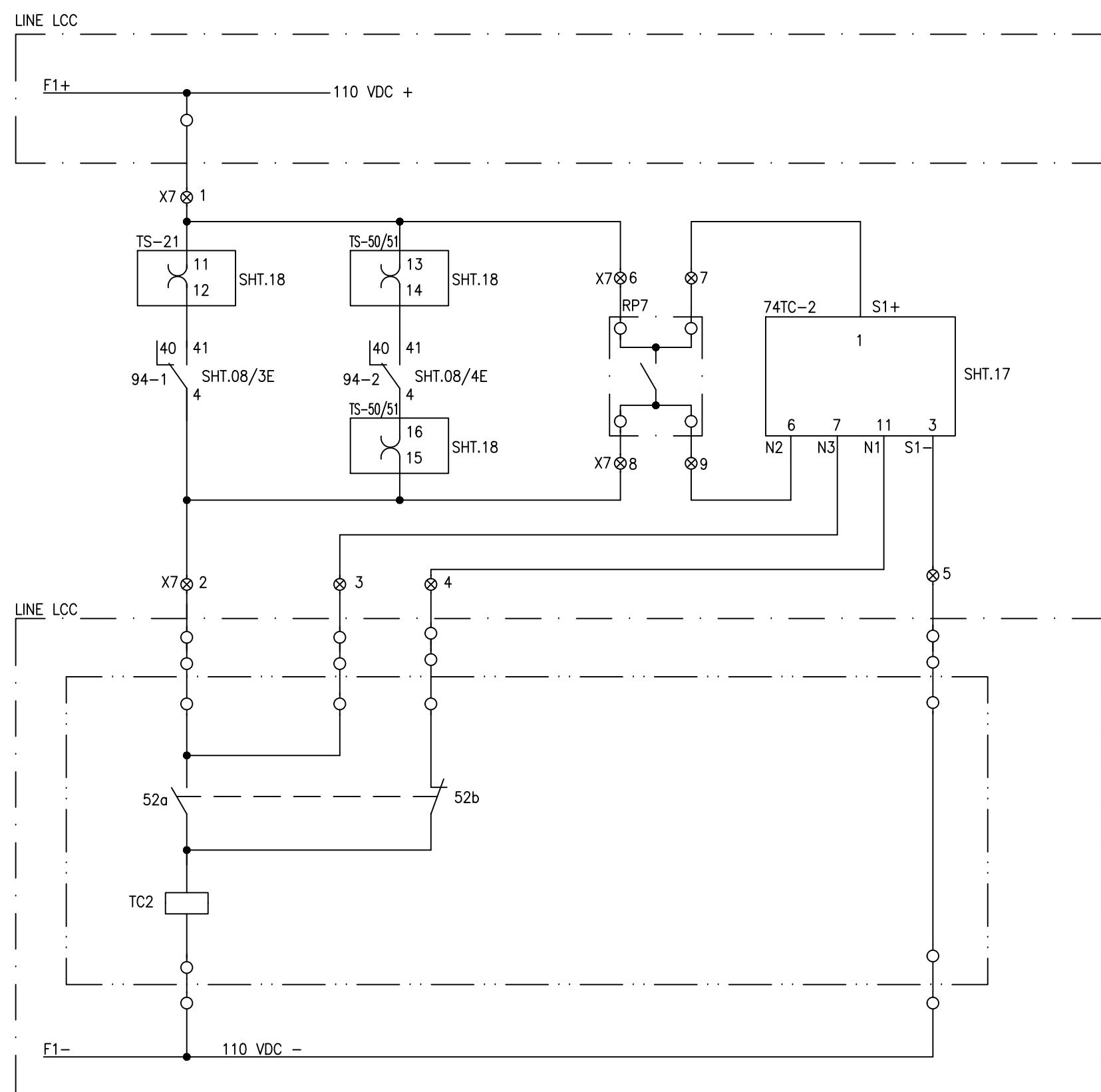
NOTE:

CONTROL PANEL & CB BOX CONNECTIONS ARE JUST SHOWN FOR THE CONCEPTUAL UNDERSTANDING OF THE TRIP CIRCUIT SUPERVISION SCHEME.

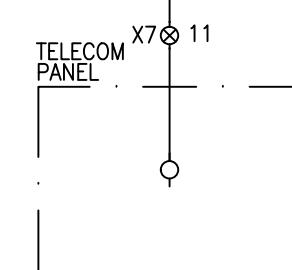
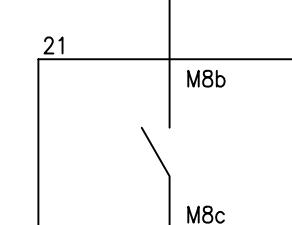
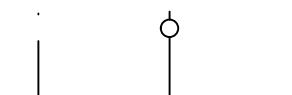
TRIP RELAY-21

TRIP RELAY-50/51

BB/BF

TRIP CIRCUIT-2
SUPERVISIONCARRIER
SEND

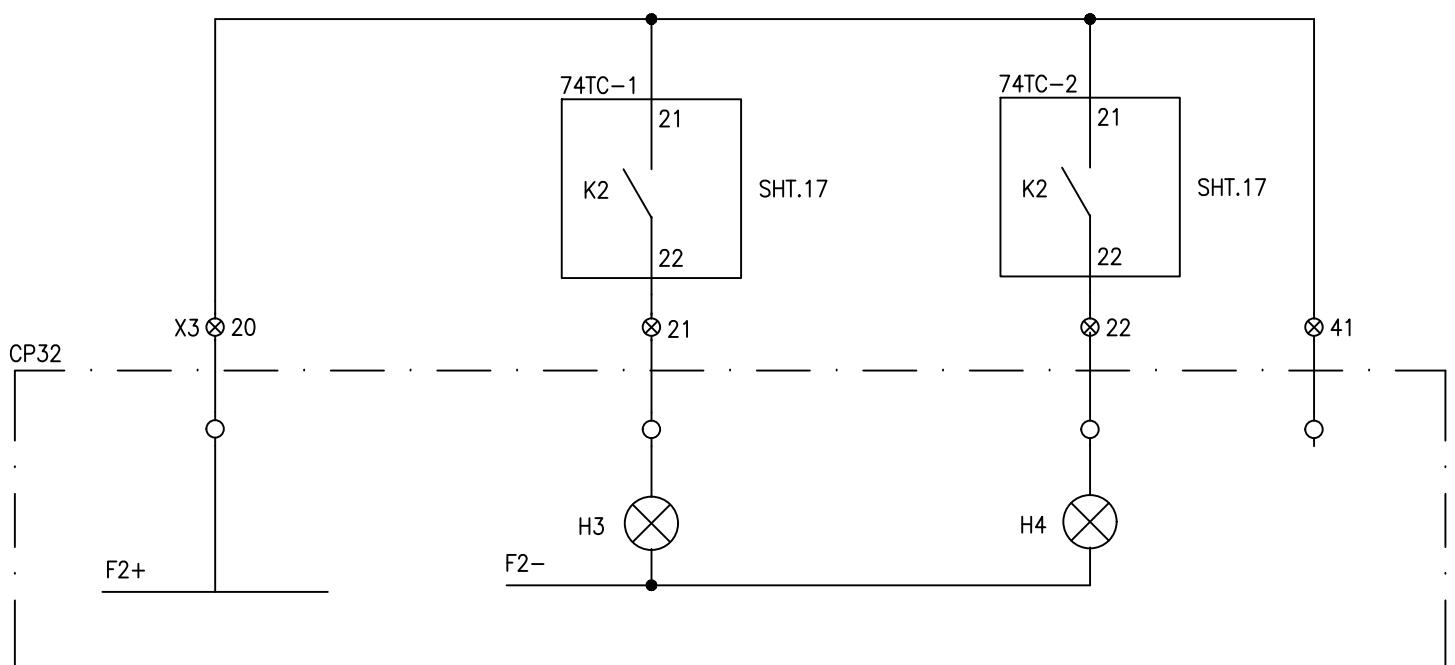
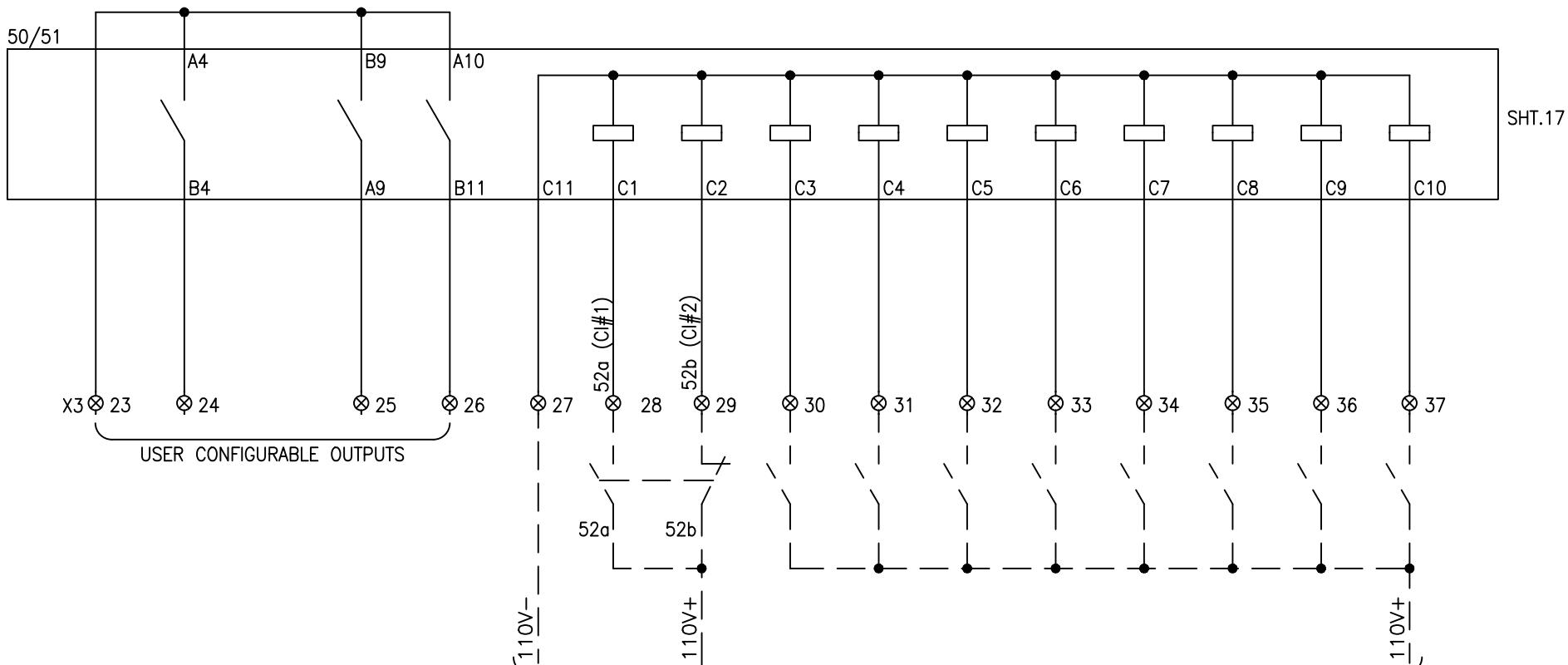
TELECOM PANEL

LEGEND

DES:	DESCRIPTION	TYPE	MAKE
74TC-2	TRIP CIRCUIT SUPERVISION RELAY	TS101	ELABS
21	DISTANCE RELAY	D60	GE
94-X	TRIP RELAY SELF RESET	RJ-8R	ARTECHE

NOTE:

CONTROL PANEL & CB BOX CONNECTIONS ARE JUST SHOWN FOR THE CONCEPTUAL UNDERSTANDING OF THE TRIP CIRCUIT SUPERVISION SCHEME.

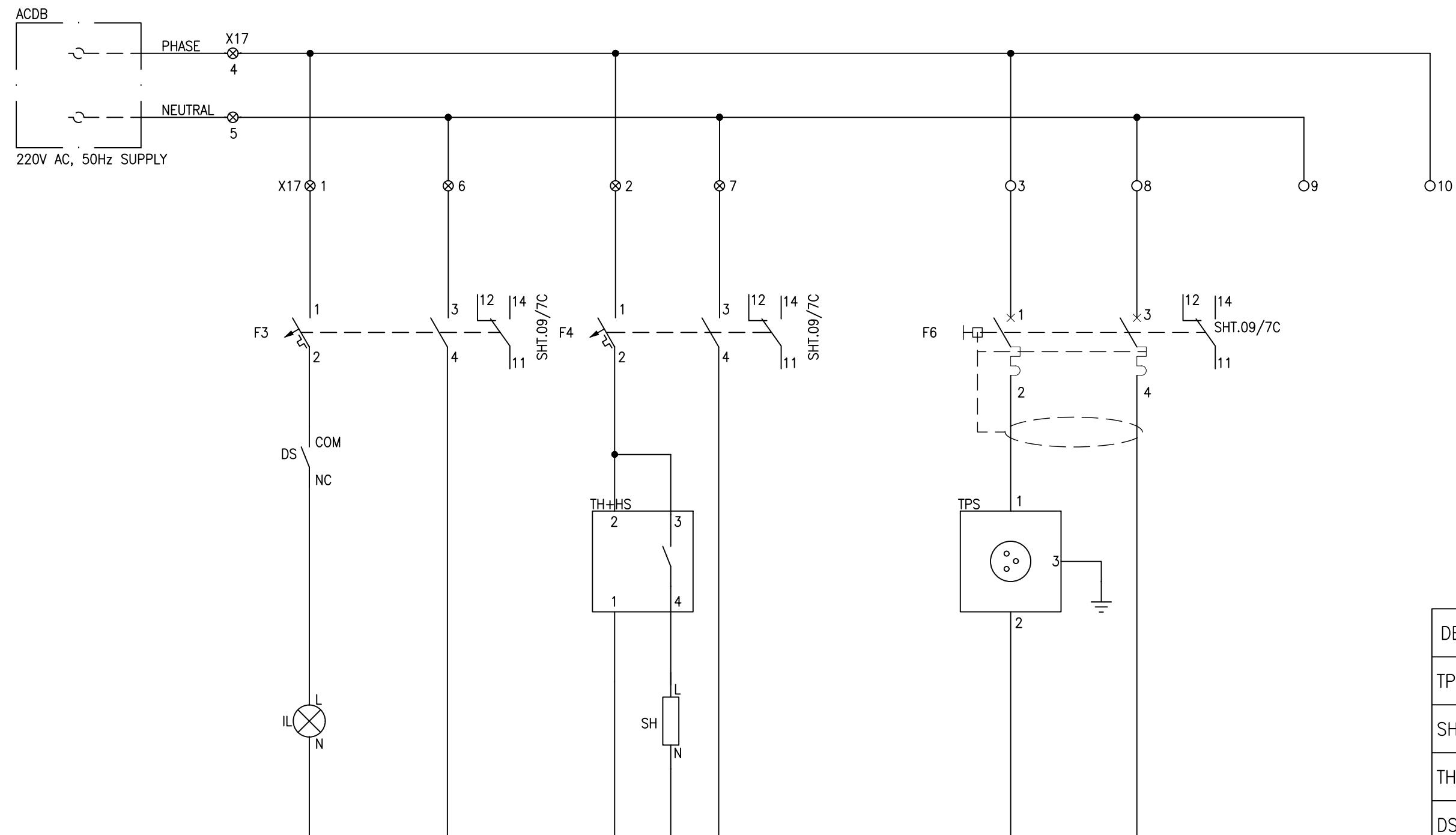
TRIP CIRCUIT-1
HEALTHYTRIP CIRCUIT-2
HEALTHY50/51 RELAY SPARE BINARY INPUTS & OUTPUTS
USER CONFIGURABLELEGEND

DES:	DESCRIPTION	TYPE	MAKE
74TC-1	TRIP CIRCUIT SUPER-VISION RELAY	TS101	ELABS
74TC-2	TRIP CIRCUIT SUPER-VISION RELAY	TS101	ELABS
50/51	OC & EF RELAY	350	GE



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

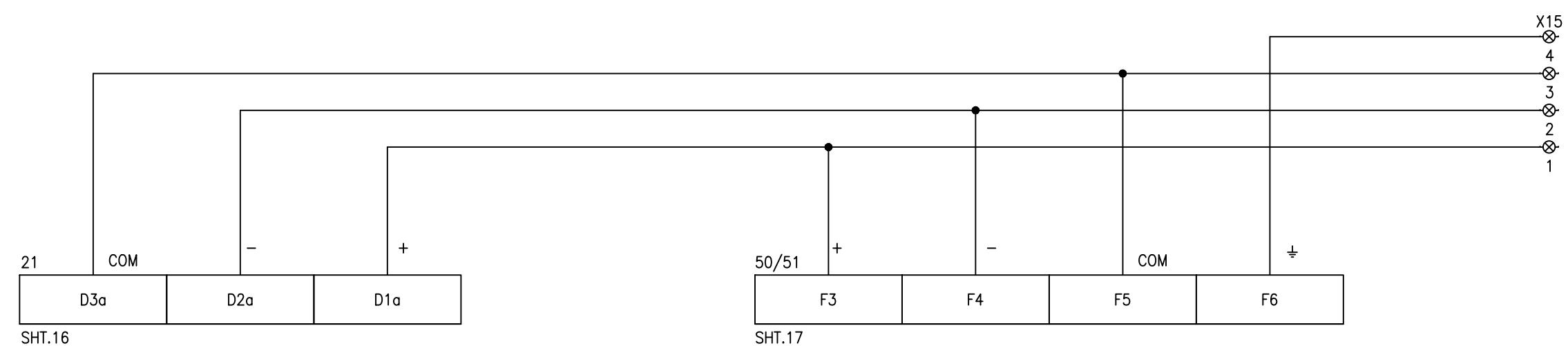
AC SUPPLY DISTRIBUTION

DOOR SWITCH &
CUBICLE LIGHTSPACE HEATER
THERMOSTATTHREE
PIN SOCKETLEGEND

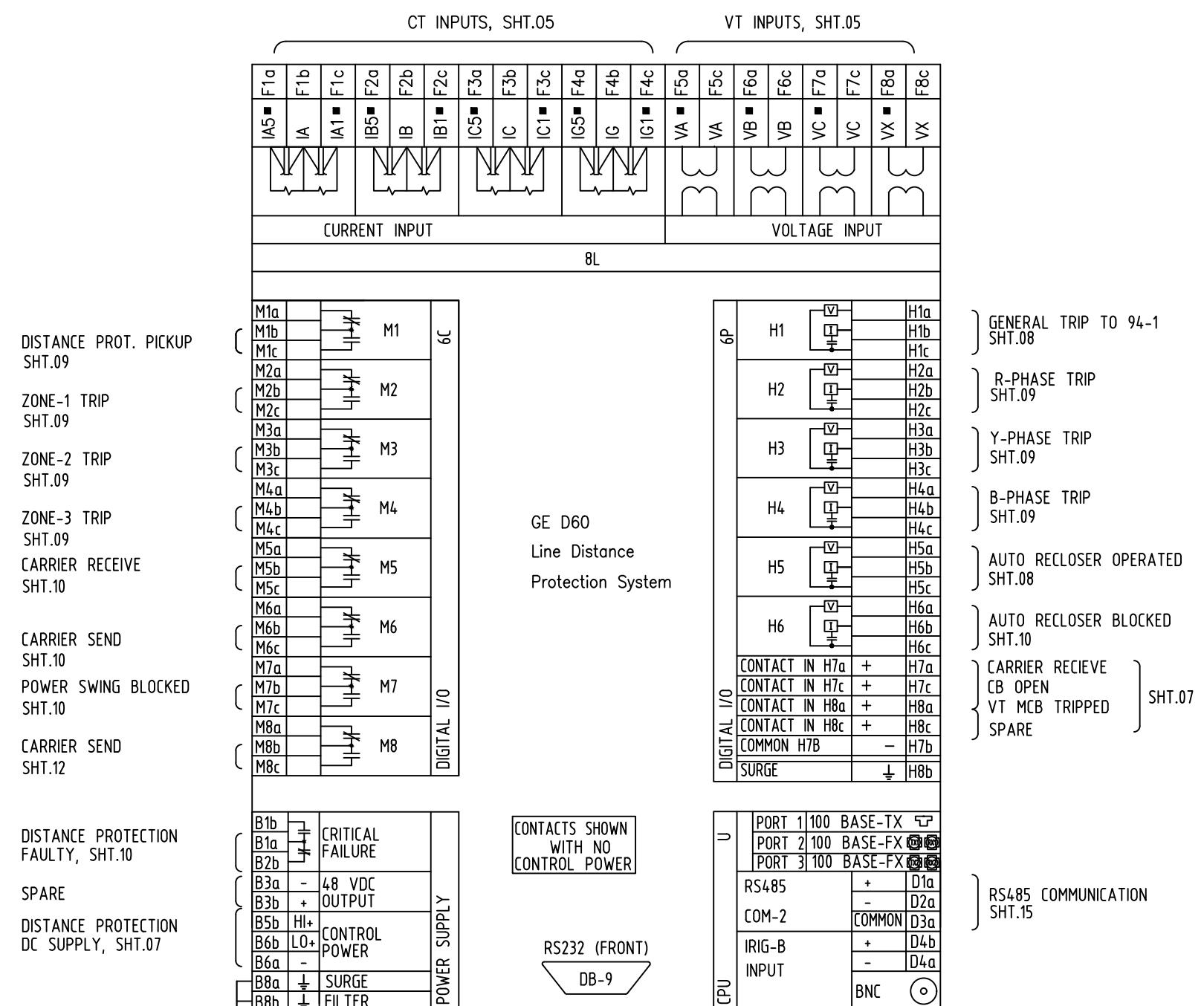
DES:	DESCRIPTION	TYPE	MAKE
TPS	THREE PIN SOCKET 240 VAC	-	LEAR
SH	SPACE HEATER	ELH220	ELABS
TH+HS	THERMOSTAT & HUMIDSTAT	ELH220	ELABS
DS	DOOR SWITCH	YSP+YSMS	YONGSUNG
F3,F4	AC MCB, 2P, 10A	G60	GE
IL	ILLUMINATION LIGHT	YST8	YONGSUNG
F6	ELCB	DM100	GE

21 RS485

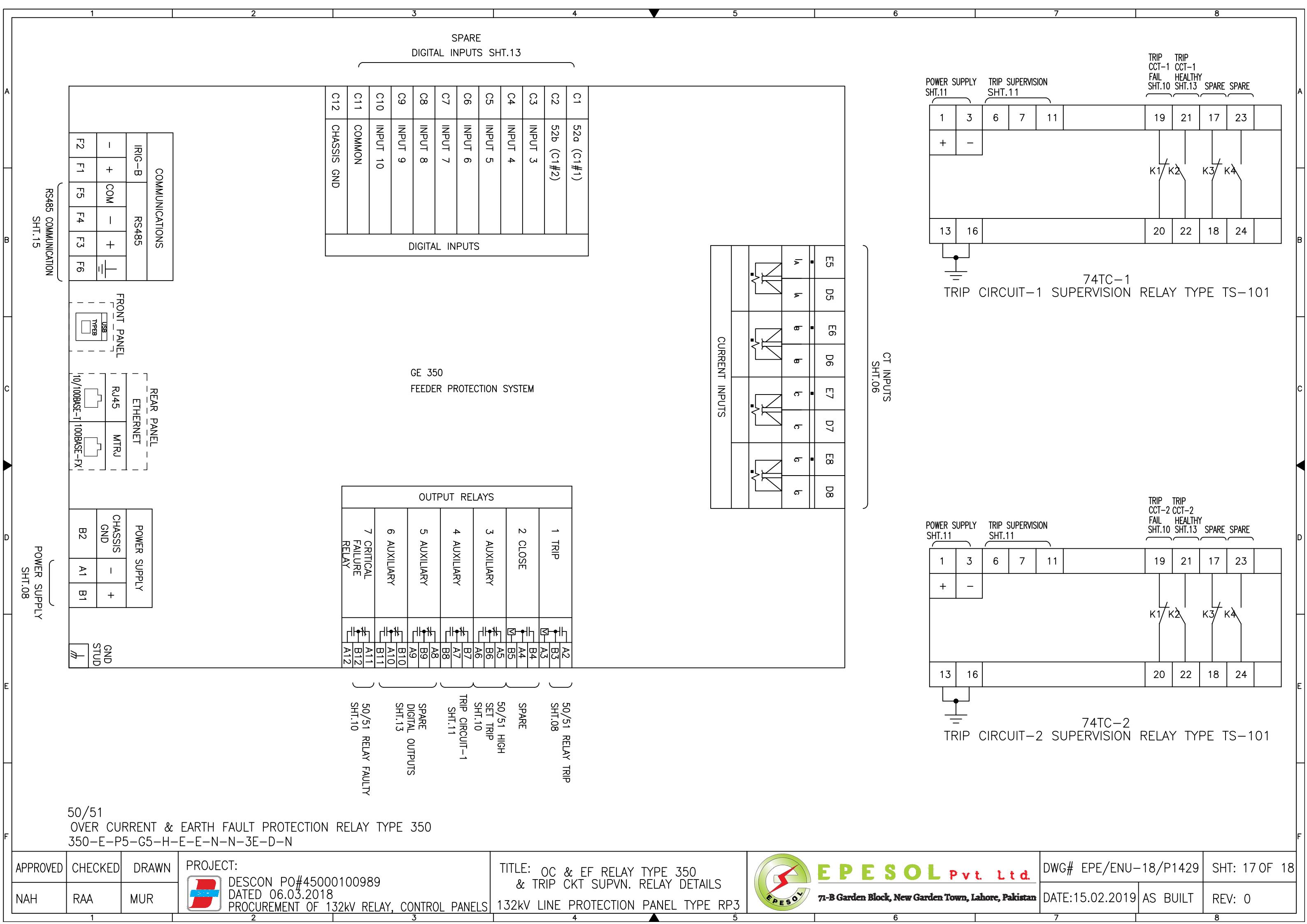
50/51 RS485

LEGEND

DES:	DESCRIPTION	TYPE	MAKE
50/51	O/C & E/F RELAY	350	GE
21	DISTANCE RELAY	D60	GE

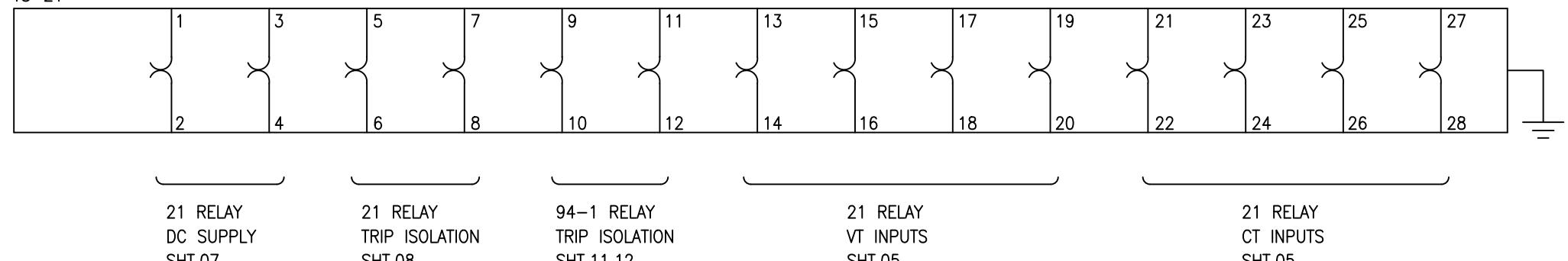


APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: DISTANCE RELAY TYPE D60 DETAILS 132kV LINE PROTECTION PANEL TYPE RP3	EPE SOL Pvt Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1429 DATE:15.02.2019 AS BUILT	SHT: 16 OF 18 REV: 0
NAH	RAA	MUR					



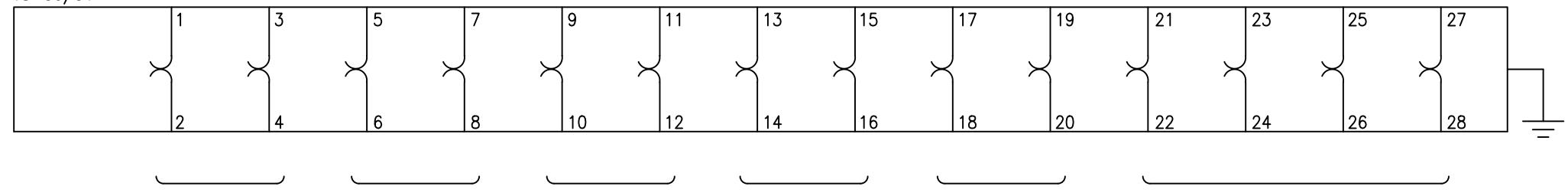
TS-21
TEST BLOCK TYPE TSB14-111111222AAAB-V

TS-21



TS-50/51
TEST BLOCK TYPE 1111111111AAAB-V

TS-50/51



LEGEND

DES.	DESCRIPTION	TYPE	MAKE
TS-X	TEST BLOCK	TSB14	ARTECHE

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: TEST BLOCK TYPE TSB14 DETAILS 132kV LINE PROTECTION PANEL TYPE RP3	DWG# EPE/ENU-18/P1429 71-B Garden Block, New Garden Town, Lahore, Pakistan	SHT: 18 OF 18 DATE:15.02.2019 AS BUILT REV: 0
NAH	RAA	MUR				



D- END COVER

TERMINAL STRIP X1		
LINK	REFERENCE	TERMINAL NO
•	05/5B	1
• •	05/5B	2
•	05/5B	3
• •	05/5C	4
•	05/5C	5
• •	05/5C	6
•	05/5C	7
•	06/3B	11
• •	06/3B	12
•	06/3C	13
• •	06/3C	14
•	06/3C	15
• •	06/3C	16
•	06/3D	17



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

DWC#_ EPE /ENLJ_ 18 /B1430 SUIT: 01 OF 13

DWG# E1 E/ENR-18/1 1450 SHT. 01 OF 15

DATE:15.02.2019 AS BUILT REV: 0

APPROVED	CHECKED	DRAWN	PR
NAH	ABA	MSC	

JECT:
 DESCON PO#45000100989
DATED 06.03.2018
PROCUREMENT OF 132kV RELAY, CONTROL PANE

	TITLE:	TERMINAL DETAIL	
LS	132kV LINE PROTECTION PANEL TYPE RP3		

Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION					SCHEME DWG. REF: EPE/ENU-18/P1429
A 1				REMOTE DESTINATION	TERMINAL BLOCK	TERMINAL NO	D-	TERMINAL STRIP X2
A 2								
A 3								
A 4								
A 5								
A 6								
A 7								
A 8								
B 9								
B 10								
B 11								
B 12								
c 1	2	3	4	5	6	7	8	9
c 2								
c 3								
c 4								
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c 6								
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E P E S O L Pvt. Ltd.

DWC# EPE /ENU 18 /P1430 SHT: 04 OF 13

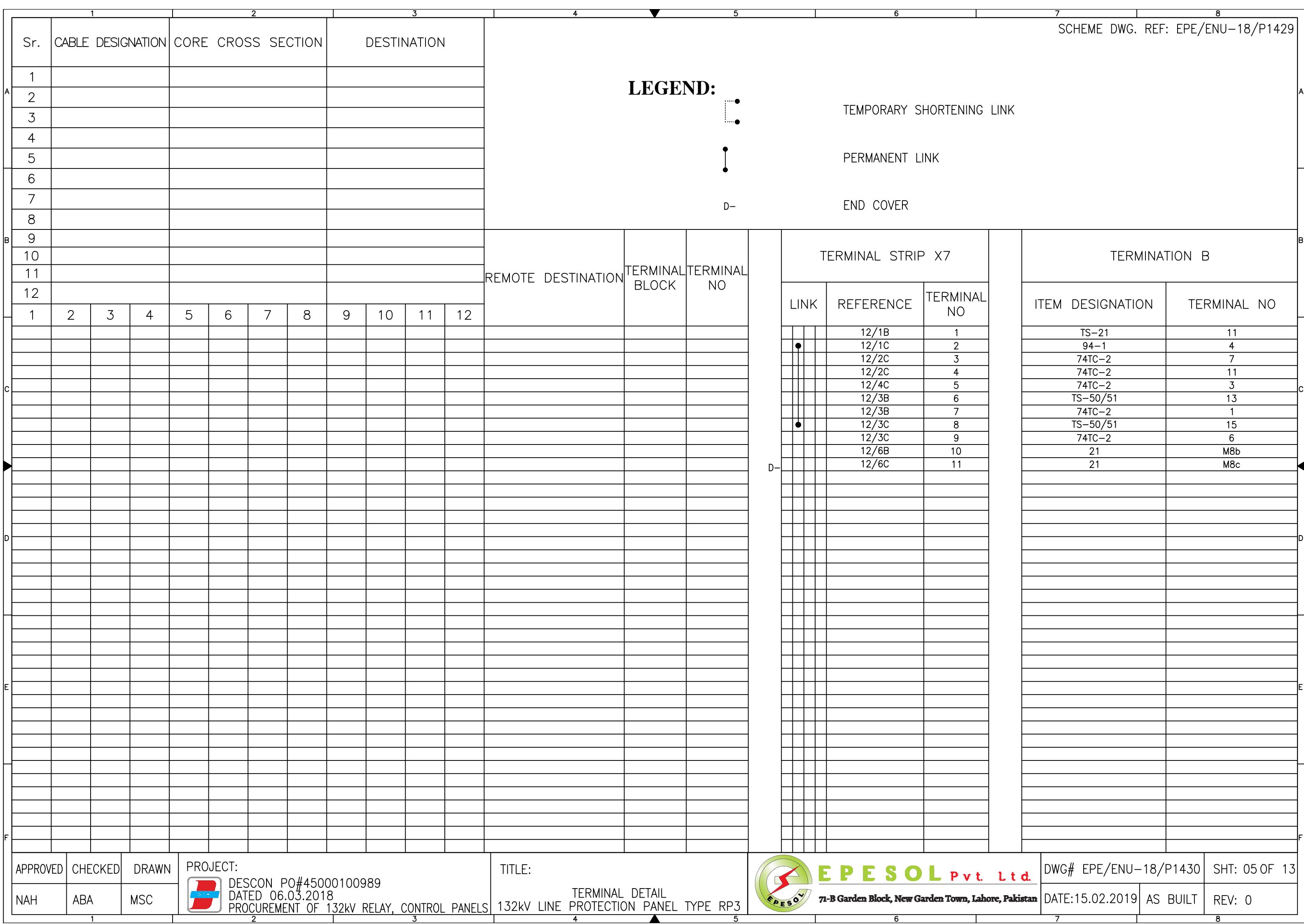
DWG# E1 E/ ENR-18/1 1450 SHT. 04 of 15

DATE:15.02.2019 AS BUILT REV: 0

APPROVED	CHECKED	DRAWN	PR
NAH	ABA	MSC	

JECT:
 DESCON PO#45000100989
DATED 06.03.2018
PROCUREMENT OF 132kV RELAY, CONTROL PANE

TITLE: TERMINAL DETAIL
LS 132kV LINE PROTECTION PANEL TYPE RP3



Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION													SCHEME DWG. REF: EPE/ENU-18/P1429								
A	1															A								
A	2																							
A	3																							
A	4																							
A	5																							
B	6															B								
B	7																							
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B	11																							
B	12																							
c	1	2	3	4	5	6	7	8	9	10	11	12												
c																								
c																								
D																								
E																								
F																								
APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS						TITLE: TERMINAL DETAIL 132kV LINE PROTECTION PANEL TYPE RP3						 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan				DWG# EPE/ENU-18/P1430		SHT: 06 OF 13			
NAH	ABA	MSC													DATE:15.02.2019		AS BUILT	REV: 0						

	1	2	3	4
Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION	
A	1			
	2			
	3			
	4			
	5			
B	6			
	7			
	8			
	9			
	10			
C	11			
	12			
	1	2	3	4
	5	6	7	8
	9	10	11	12
D				
E				

LEGEND:



TEMPORARY SHORTENING LINK

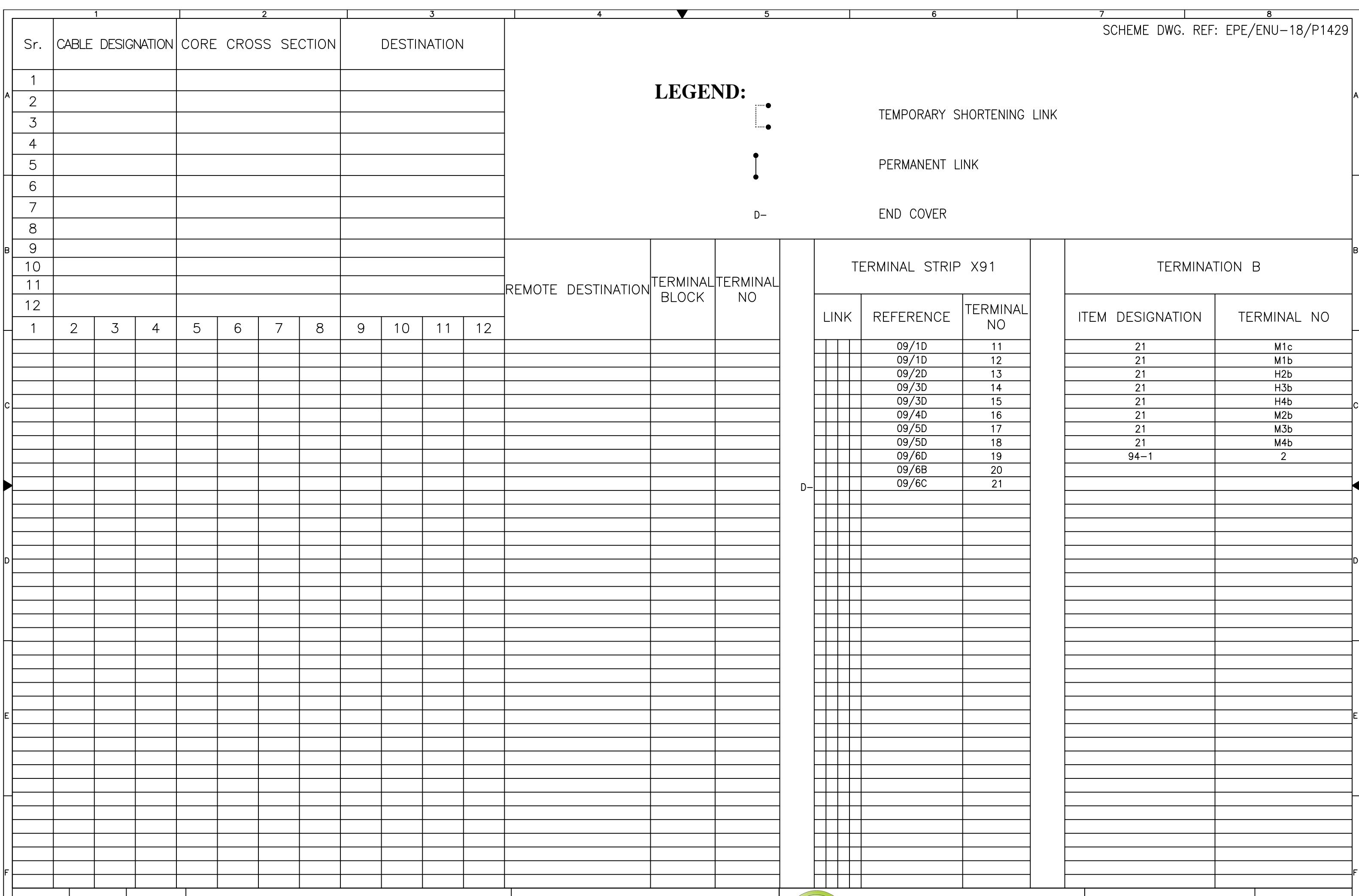


PERMANENT LINK



END COVER

APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: TERMINAL DETAIL 132kV LINE PROTECTION PANEL TYPE RP3	 EPESOL PVT LTD 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1430	SHT: 07 OF 13
NAH	ABA	MSC				DATE:15.02.2019	AS BUILT



Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION
A 1			
A 2			
A 3			
A 4			
A 5			
A 6			
A 7			
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B 9			
B 10			
B 11			
B 12			
c 1	2	3	4
c 2	5	6	7
c 3	8	9	10
c 4	11	12	
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Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION					SCHEME DWG. REF: EPE/ENU-18/P1429		
A 1								A TEMPORARY SHORTENING LINK PERMANENT LINK D- END COVER		
A 2										
A 3										
A 4										
A 5										
A 6										
A 7										
A 8										
B 9										
B 10										
B 11										
B 12										
c 1	2	3	4	5	6	7	8	TERMINAL STRIP X93		
c 2								LINK REFERENCE TERMINAL NO		
c 3								10/1D 11		
c 4								10/1D 12		
c 5								10/2D 13		
c 6								10/2D 14		
c 7								10/2D 15		
c 8								10/3D 16		
c 9								10/3D 17		
c 10								10/3D 18		
c 11								10/4D 19		
c 12								10/4B 20		
c 13								10/4C 21		
D 1								ITEM DESIGNATION TERMINAL NO		
D 2								94-2 21		
D 3								94-2 2		
D 4								50/51 B6		
D 5								21 M5b		
D 6								21 M6b		
D 7								21 M7b		
D 8								21 H5b		
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E 1										
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F 1										
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APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS			TITLE: TERMINAL DETAIL 132kV LINE PROTECTION PANEL TYPE RP3		DWG# EPE/ENU-18/P1430 SHT: 10 OF 13		
NAH	ABA	MSC						DATE:15.02.2019	AS BUILT	REV: 0
1	2	3	4	5	6	7	8			

LEGEND:



TEMPORARY SHORTENING LINK



PERMANENT LINK

D-

END COVER

REMOTE DESTINATION TERMINAL BLOCK TERMINAL NO

TERMINAL STRIP X93

LINK	REFERENCE	TERMINAL NO
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	10/1D	11
	10/1D	12
	10/2D	13
	10/2D	14
	10/2D	15
	10/3D	16
	10/3D	17
	10/3D	18
	10/4D	19
	10/4B	20
	10/4C	21

D-

TERMINATION B

ITEM DESIGNATION	TERMINAL NO
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94-2	21
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94-2	2
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50/51	B6
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21	M5b
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21	M6b
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21	M7b
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21	H5b
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21	H6b
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F5	21
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EPESOL Pvt. Ltd.
71-B Garden Block, New Garden Town, Lahore, Pakistan

	1	2	3	4	5	6	7	8
Sr.	CABLE DESIGNATION	CORE CROSS SECTION	DESTINATION					
A 1								
A 2								
A 3								
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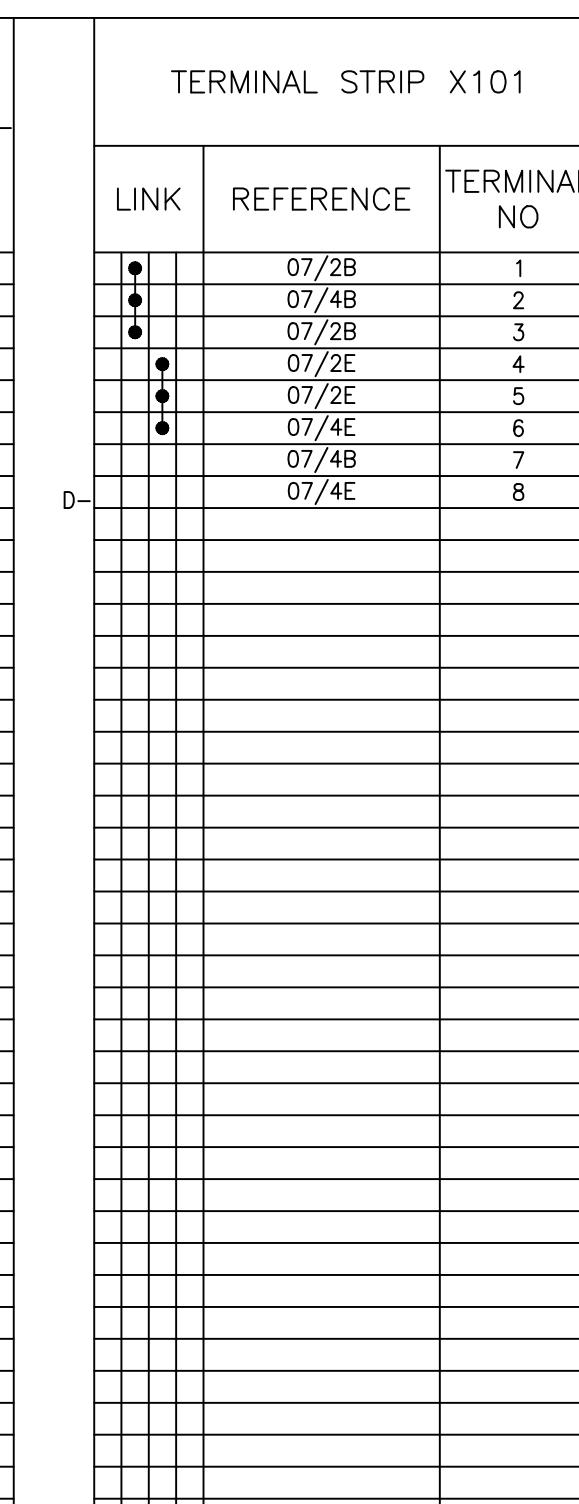
TEMPORARY SHORTENING LINK



PERMANENT LINK

D-

END COVER



APPROVED	CHECKED	DRAWN	PROJECT: DESCON PO#45000100989 DATED 06.03.2018 PROCUREMENT OF 132kV RELAY, CONTROL PANELS	TITLE: TERMINAL DETAIL 132kV LINE PROTECTION PANEL TYPE RP3	 EPESOL Pvt. Ltd. 71-B Garden Block, New Garden Town, Lahore, Pakistan	DWG# EPE/ENU-18/P1430	SHT: 12 OF 13
NAH	ABA	MSC				DATE:15.02.2019	AS BUILT

