

NOTE:
ALL EXTERNAL WIRING SHOWN AS DASHED LINES.

S/N _____

NOTES:

△ PHASE ROTATION: A-B-C SHOWN.

△ DEVICE NOT SUPPLIED BY BASLER ELECTRIC CO.

3 ALL EXTERNAL WIRING TO BE 14 GA. MIN.
EXCEPT THOSE LISTED BELOW TO BE CALCULATED
ACCORDING TO THE FOLLOWING DATA:

LOCATION	VOLTS	AMPS
F+, F-	125 Vdc	178 Ade
P1, P2, P3	120 Vdc	144 Ade
TB1-PJN	125 Vdc	10 Ade

△ CABLE ASSY., J101 & J201 NO. 9 3048 02 100.

△ CABLE ASSY., J102 & J202 NO. 9 3048 03 100.

△ SET MBI DIP SWITCH 1,2,3,7 TO "ENABLE" POSITION.

△ JUMPERS J101, J102, J103, J104 TO BE REMOVED
FOR USE WITH MULTI-BRIDGE
INTERFACE BOARD.

△ FOR 60 HZ BACK-UP OPERATION,
MANUALLY REMOVE THE POWER CABLES
FROM TB3 (1-2-3), (420 HZ) AND
RE-CONNECT TO TB4 (1-2-3),
(60 HZ BACK-UP SOURCE).

△ DECS 300/PSS
OUTPUT CONTACT RATINGS:

RATED VOLTAGE	RESISTIVE		INDUCTIVE	
	MAKE 0.2 SEC. CONTINUOUS	CARRY BREAK	MAKE 0.2 SEC. CONTINUOUS	CARRY BREAK
120/240 Vdc	30A	7A	7A	0.3A
30 Vdc	10A	10A	10A	—
125 Vdc	30A	7A	7A	0.1A
250 Vdc	30A	7A	7A	0.1A

△ DECS-300 OUTPUT CONTACTS TO BE
PROGRAMMED AS FOLLOWS:

RELAY 1: OEL, UEL, REF HI-LIMIT,
REF LO-LIMIT, UT FREQUENCY

RELAY 2: FIELD CURRENT, FIELD
O'VOLTAGE, AC O'VOLTAGE,
AC U'VOLTAGE, LOSS OF SENSING
OEL, UEL, UT FREQUENCY

RELAY 3: FOR MODE

RELAY 4: FIELD OVER CURRENT

△ SWITCH IS A MOMENTARY CONTACT, MUST BE
INTERLOCKED SUCH THAT BOTH CONTACTS
CANNOT CLOSE SIMULTANEOUSLY.

△ EXCITER: MUST NOT BE IN STOP WHEN GENERATOR
IS ON BUS. EXCITER SHOULD NOT BE IN START
CONDITION UNLESS GENERATOR IS UP TO SPEED
AND BUILDUP CAN OCCUR.

△ REDUNDANT SET OF SENSING POTENTIAL
TRANSFORMERS SHOWN, IF AVAILABLE,
REQUIRES A 60 DEVICE RELAY NOT
SUPPLIED BY BASLER ELECTRIC.

△ WARNING! CT MUST BE SHORTED OUT
VIA STB1 BEFORE WITHDRAWING DECS-A.

△ WARNING! CT MUST BE SHORTED OUT
VIA STB2 BEFORE WITHDRAWING DECS-B.

△ TIME DELAY FACTORY SET FOR 5 SEC.
TO BE CO-ORDINATED WITH DECS-300
FIELD OVER CURRENT PROTECTION SETTINGS.

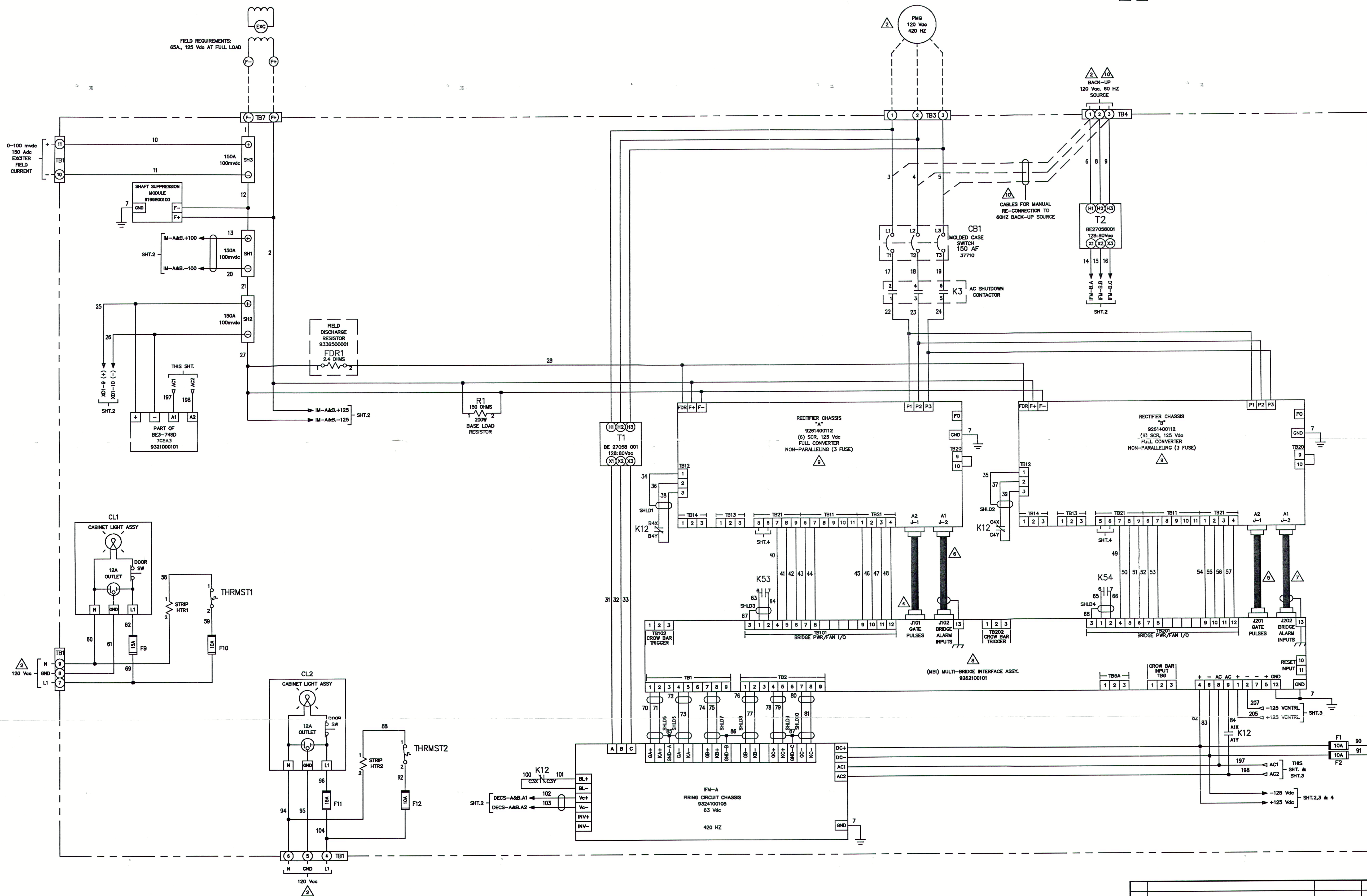
△ TIME DELAY FACTORY SET FOR 60 SEC.
TO BE CO-ORDINATED WITH DECS-300
FIELD OVER CURRENT PROTECTION SETTINGS.

△ ALL TIMES ARE ADJUSTABLE. SETTINGS
SHOWN ARE FOR FACTORY TESTS ONLY.
ACTUAL SETTINGS TO BE CHOSEN AT
CUSTOMER SITE.

△ PROGRAM "OUTS" OF PSS TO CLOSE ON
AN ALARM CONDITION IN PSS.

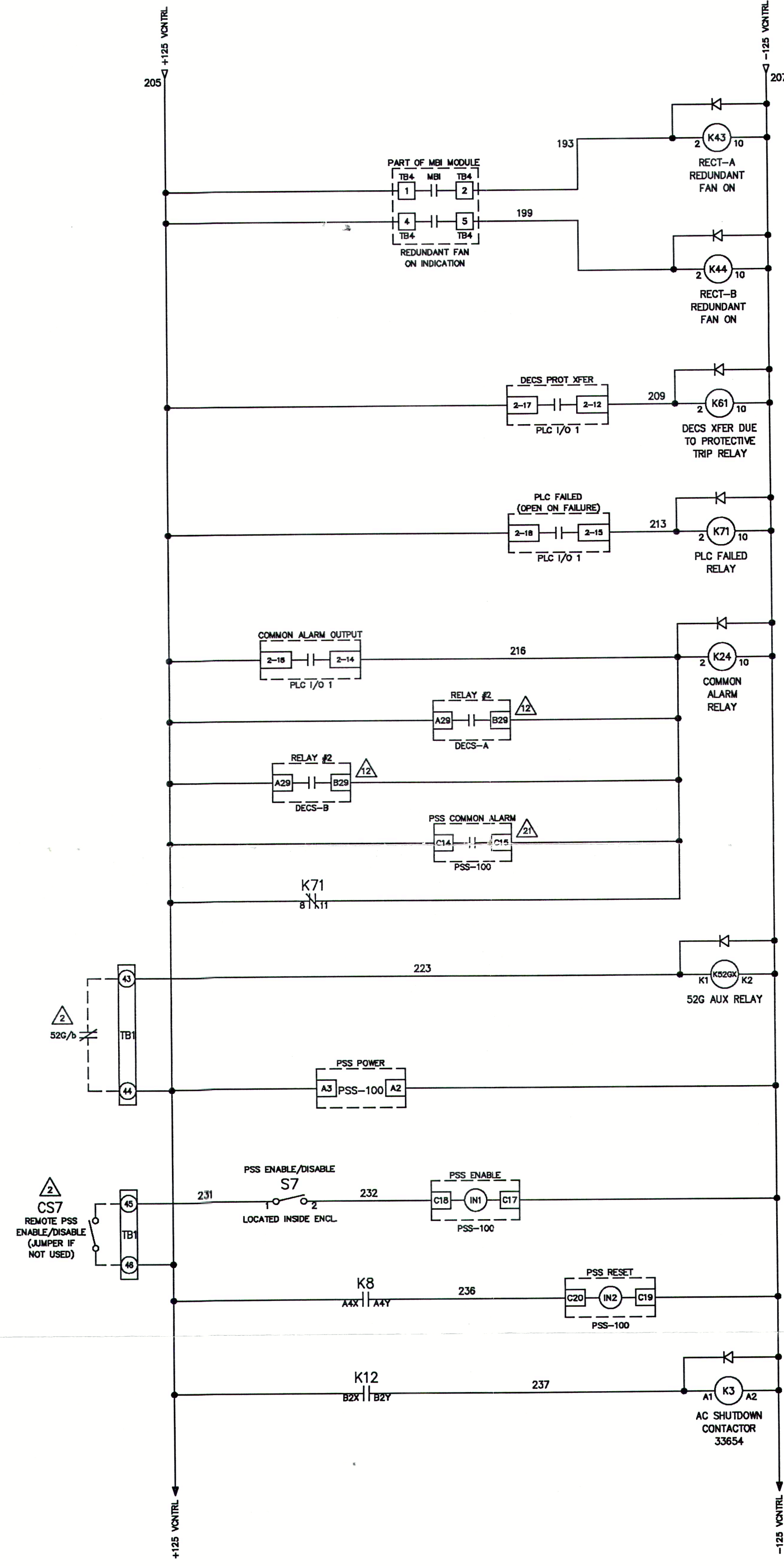
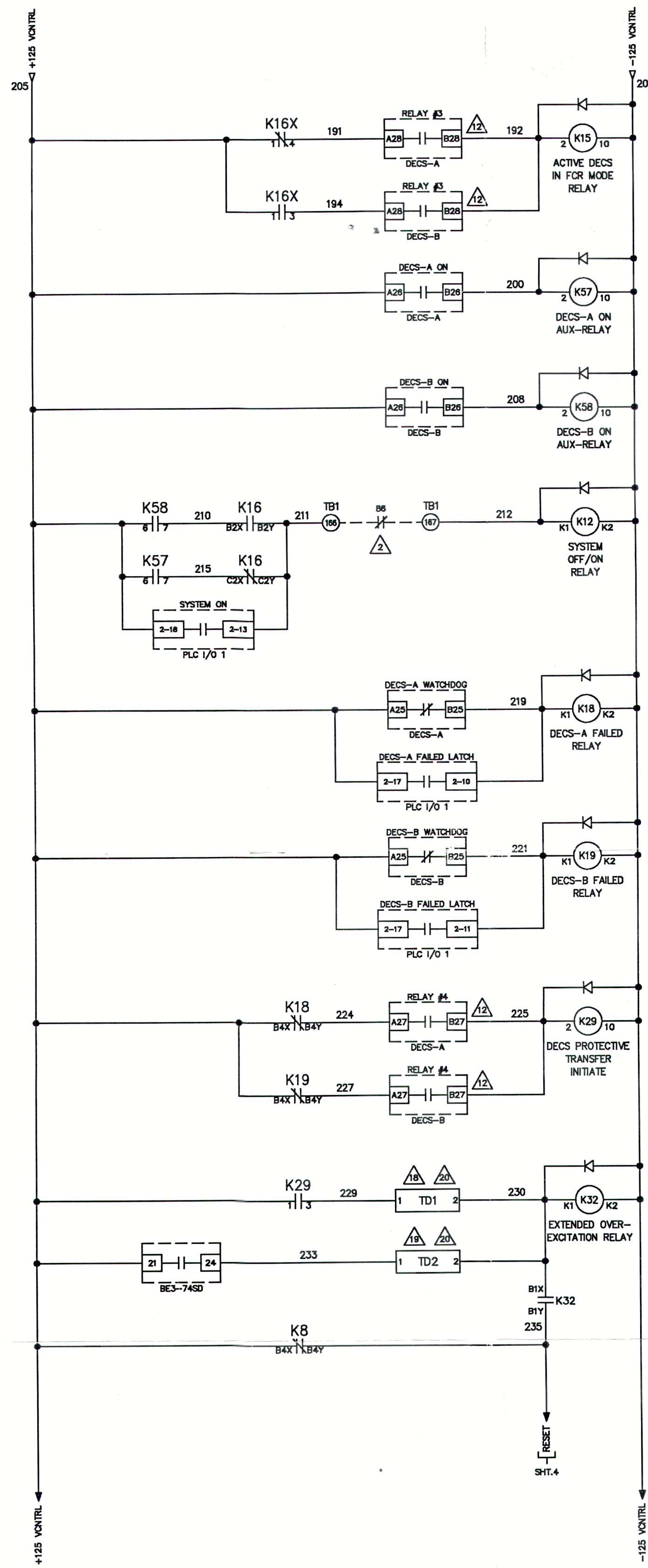
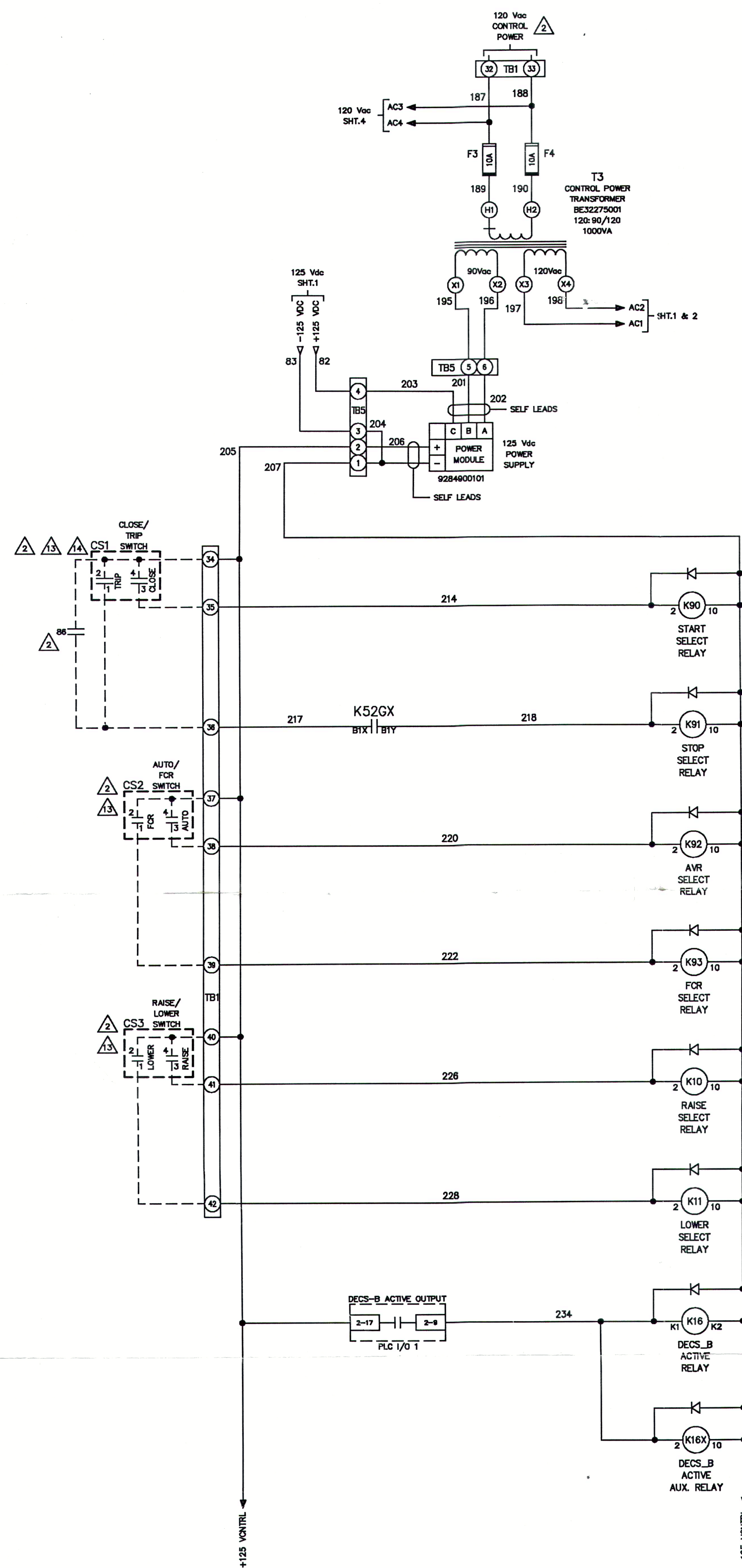
△ CONNECTORS FROM THE FIRING CHASSIS
(FM-B) FOR MANUAL RE-CONNECTION TO
THE MBI FOR 60 HZ BACK-UP.

MONTECELLO UNIT 1
AUTOMATIC VOLTAGE REGULATOR
WA - 4121F002



CONFIDENTIAL INFORMATION
OF BASLER ELECTRIC COMPANY, HIGHLAND, IL.
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ANY MANNER DETRIMENTAL TO THE INTERESTS OF
BASLER ELECTRIC COMPANY.

TITLE INTERCONNECTION DIAGRAM DUAL DECS 300-N, 125-22 KW		SHEET 1 OF 5 PROJECT NO. 93155	
DRAWN BY/DATE HUELSMANN/10-7-04	CHKD BY/DATE M.T.T./10-14-04	APPR. BY/DATE M.T.T./10-14-04	
REVISION A ADDED SELF LEADS ON SHT. 5-CB1/AUX	DATE 11/29/04	BY AHH	
ALL DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS OTHERWISE SPECIFIED: DECIMALS ± .XX = .XX = .XXX = FRACTIONS ±		DRAWING NO. 9386500960	
Basler Electric		REV A	



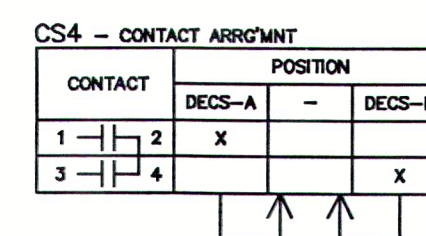
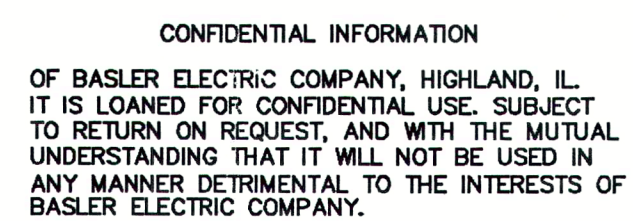
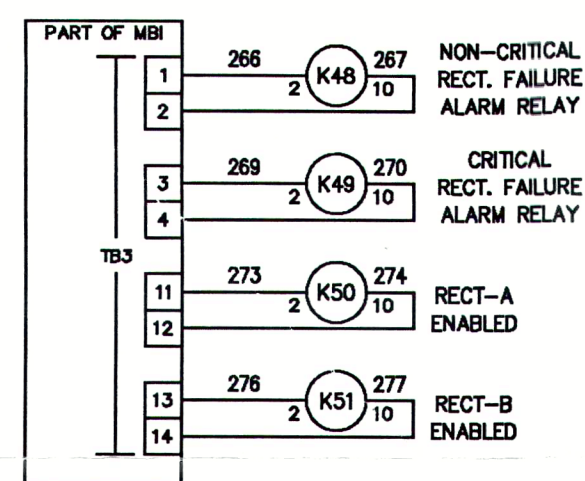
CS1 - CONTACT ASSIGNMENT			
CONTACT	TRIP	POSITION	
1	2	X	CLOSE
2	3	X	
3	4	X	

CS2 - CONTACT ASSIGNMENT			
CONTACT	FOR	POSITION	
1	2	X	AUTO
2	3	X	
3	4	X	

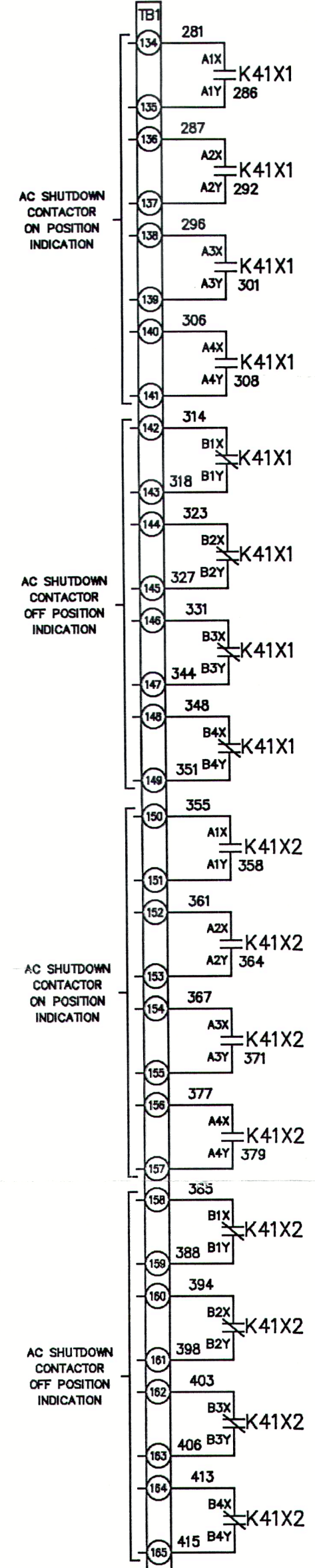
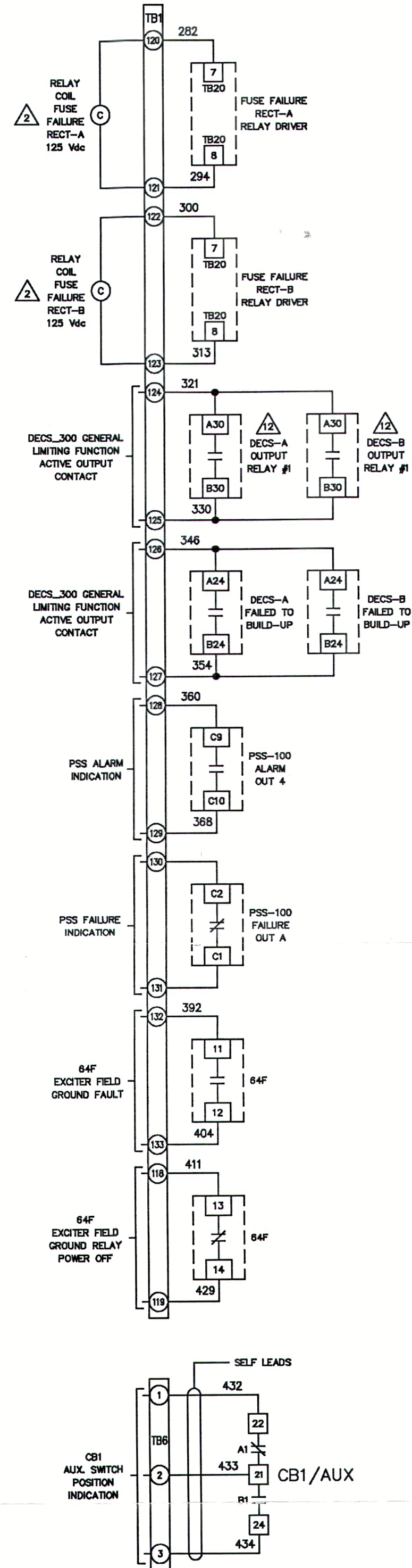
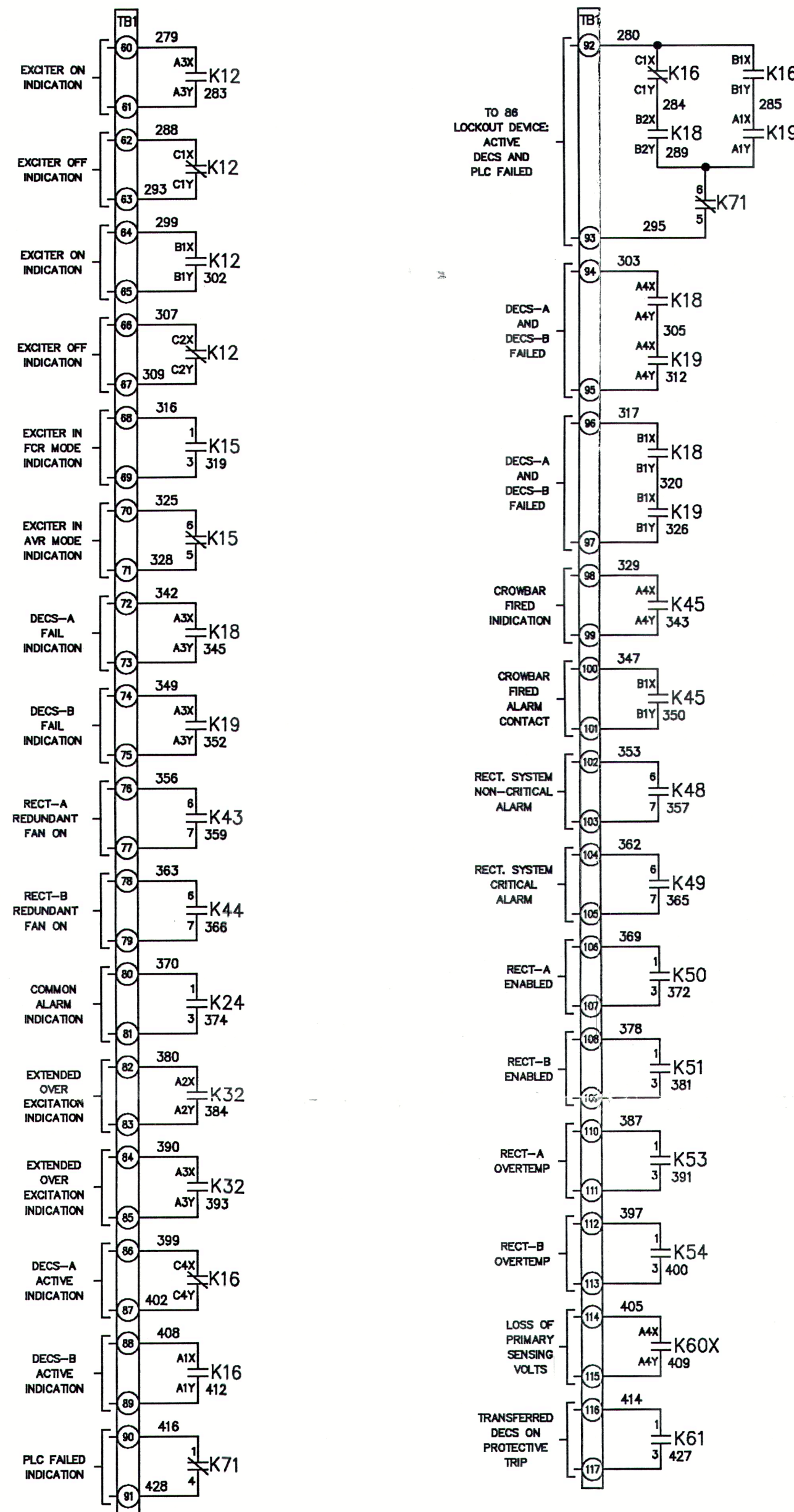
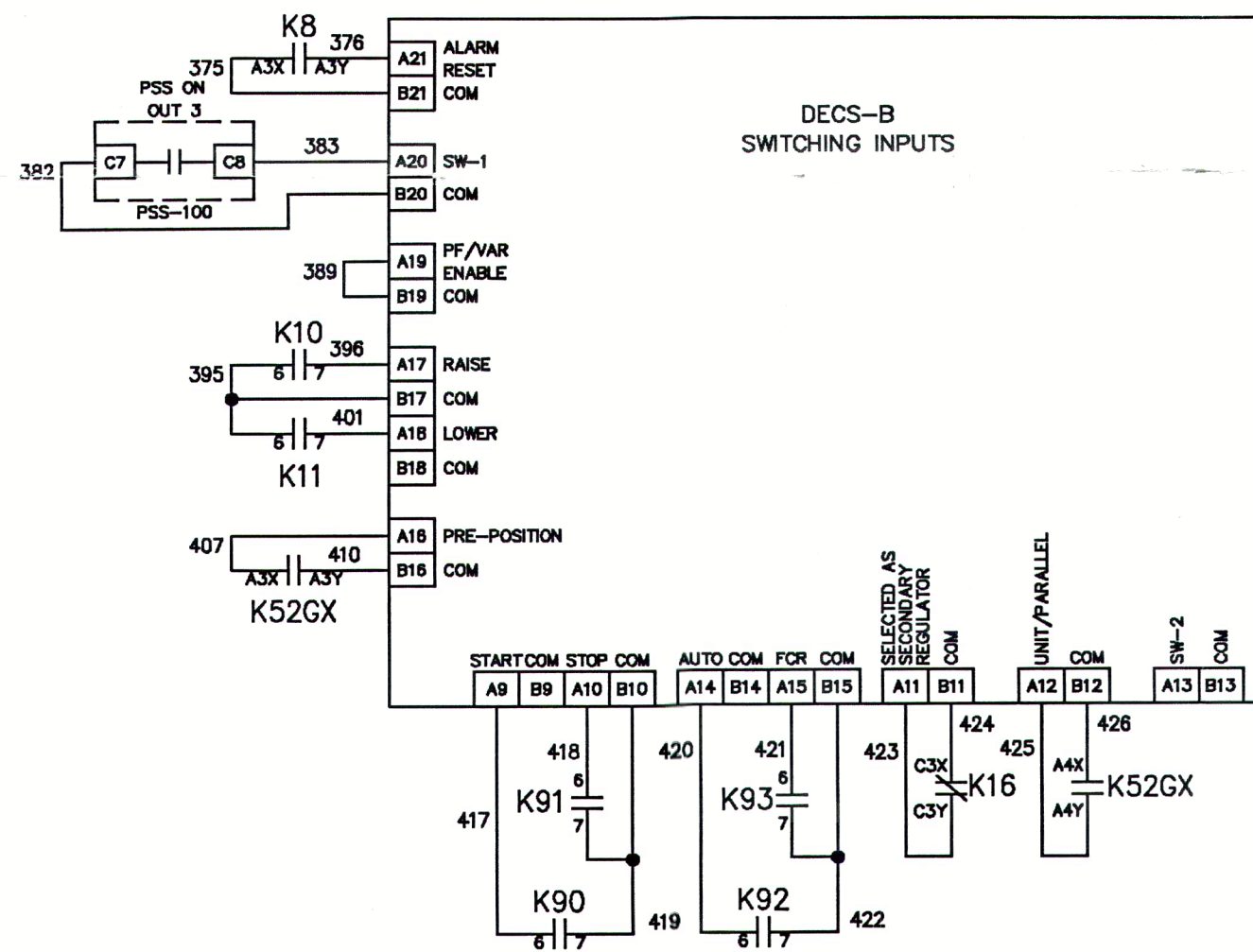
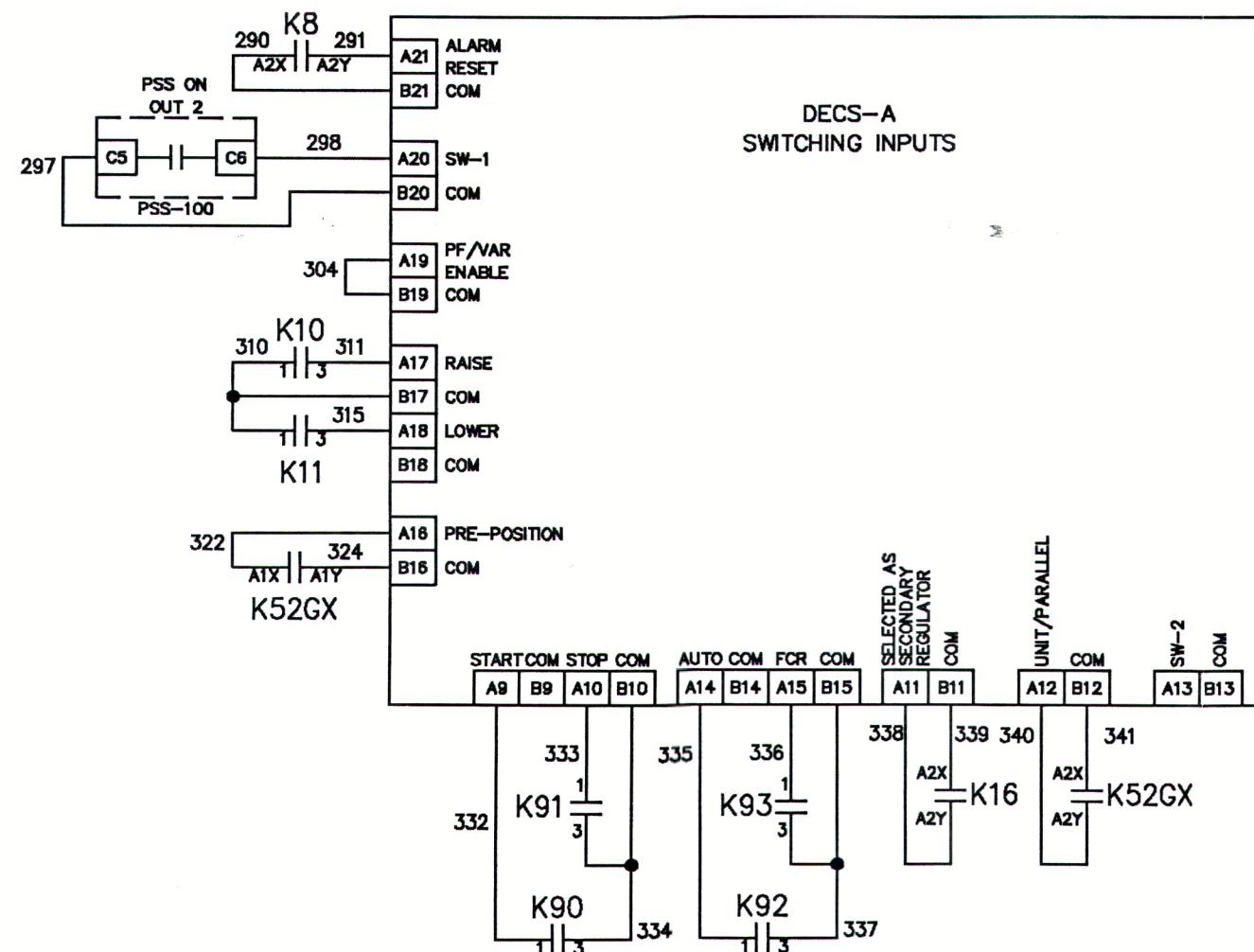
CS3 - CONTACT ASSIGNMENT			
CONTACT	LOWER	POSITION	
1	2	X	RAISE
2	3	X	
3	4	X	

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TITLE		INTERCONNECTION DIAGRAM		SHEET 3 OF 5	
DUAL DECS 300-N, 125-22 KW		PROJECT NO.		93155	
DRAWN BY/DATE		CHKD BY/DATE		APPR. BY/DATE	
HUELSMANN/10-7-04		M.T.T./10-14-04		M.T.T./10-14-04	
REVISION		DATE		BY	
ALL DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS OTHERWISE SPECIFIED:		FRACTIONS ±		ANGLES ±	
Basler Electric		DWS		DRAWING NO.	
D		9386500960		REV	
A					



				TITLE				SHEET <u>4</u> OF <u>5</u>	
				INTERCONNECTION DIAGRAM				PROJECT NO.	
				DUAL DECS 300-N, 125-22 KW				93155	
				DRAWN BY/DATE		CHKD BY/DATE		APPR. BY/DATE	
				HUELSMANN/10-7-04		M.T.T./10-14-04		M.T.T./10-14-04	
LET.		REVISION		DATE		BY		 DRAWING NO. 93886500960	
ALL DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS OTHERWISE SPECIFIED: DECIMALS ± .XX = .XX FRACTIONS ± ANGLES ±									



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TITLE				SHEET 5 OF 5	
INTERCONNECTION DIAGRAM				PROJECT NO. 93155	
DUAL DECS 300-N, 125-22 KW					
DRAWN BY/DATE		CHKD BY/DATE		APPR. BY/DATE	
HUELSMANN/10-7-04		M.T.T./10-14-04		M.T.T./10-14-04	
LET.	REVISION	DATE	BY	DWG SIZE	REV
				D	
Basler Electric				DRAWING NO. 9386500960	
ALL DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS OTHERWISE SPECIFIED: DECIMALS ±.X = .XX = .XXX = FRACTIONS ± ANGLES ±				A	