

Published Manual Number/ECN: ME6TXNS1CE/2012263A

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**Read the
separate
safety
manual
before
installing,
operating,
or servicing**

Schematic/Electrical Parts— Textile Processing Machine 64046, 72046, 58, & 75J#N Mark V Controls

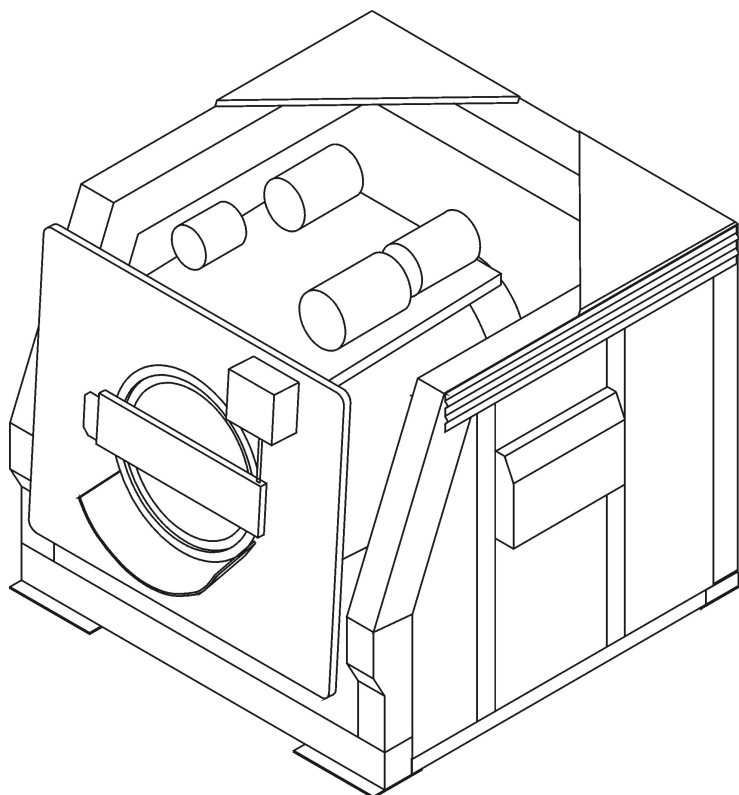


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COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
	>>CONTROL BOX LAYOUTS				
01	DETAIL-LOW VOLTAGE CONTROL BOX	W6T5NSTG1	B2TAG97046	J-SERIES OPEN PKT LO VOLT BOX	SEE FUNCTION
02	DETAIL-HIGH VOLTAGE CONTROL BOX	W6T5NSTG1	B2TAG97044	J-SERIES OPENPKT HI VOLT BOX	SEE FUNCTION
03	DETAIL-CONTROL CIRCUIT BOARDS	W6T5NSTG2	B2TAG97049	M6 J-SERIES CONTROL BOARDS	SEE FUNCTION
04	DETAIL-186 PROCESSOR BOX	W6T5NSTG2	B2TAG96001	TAG:186 PROCESSOR BOX	SEE FUNCTION
AC	>>ACCELEROMETERS				
ACBA	ACCELEROMETER-BALANCE	W6T5NSEC	30K205B	ACELROMETR 0-2G IC. SEN#3145-002	DOOR LATCH
BA	>>PRINTED CIRCUIT BOARDS				
BAD-1	BOARD-ANALOG TO DIGITAL CONVERTER	W6T5NSBW	08BSADCT	BD:SERIAL A-D CONVERT->TEST	LOW VOLT BOX
BAD-1	BOARD-ANALOG TO DIGITAL CONVERTER	W6T5NSEC	08BSADCT	BD:SERIAL A-D CONVERT->TEST	LOW VOLT BOX
BBAD-1	BOARD-BALANCE A TO D CONVERTER	W6T5NSEC	08BSBADCT	BD:SERIAL BALANCING A-D-TEST	LOW VOLT BOX
BBB-1	BOARD-MEMORY BATTERY BACKUP	W6T5NSBW	08BSBB1T	BOARD: SER BATT BACKUP-TEST	PROCESSOR BX
BDA-1	BOARD-DIGITAL TO ANALOG CONVERTOR	W6T5NSBW	08BSDACT	BD:SERIAL D-A CONVERT->TEST	LOW VOLT BOX
BDVFD	BOARD-MICROPROCESSOR DISPLAY	W6T5NSDA	08BSEVFD5T	BD:SERIAL VFD5-4LINE-TEST	SWITCH PANEL
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6T5NSBW	08BS816CHT	BD:8OUT-16IN HIGH SPD->TEST	LOW VOLT BOX
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6T5NSEC	08BS816CHT	BD:8OUT-16IN HIGH SPD->TEST	LOW VOLT BOX
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6T5NSBW	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX
BIO-4	BOARD-8/16 #4 FOR CHEMICAL FLOW	W6T5NSCL1	08BS816CHT	BD:8OUT-16IN HIGH SPD->TEST	CHEM FLOW BX
BIO-5	BOARD-8/16 #5 FOR CHEMICAL FLOW	W6T5NSCL2	08BS816CHT	BD:8OUT-16IN HIGH SPD->TEST	CHEM FLOW BX
BIO-6	BOARD-8/16 #6 FOR CHEMICAL FLOW	W6T5NSCL3	08BS816CHT	BD:8OUT-16IN HIGH SPD->TEST	CHEM FLOW BX
BLB	BOARD-LEVEL TRANSDUCER	W6T5NSEC	08BNLTT	LEVEL TRANSDUCER BD->TEST	LOW VOLT BOX
BMTH1	BOARD-5 CARD MOTHER BOARD	W6T5NSBW	08BS5MTHAT	BD: SERIAL 5 CARD MOTHER-TEST	LOW VOLT BOX
BMTH2	BOARD-3 CARD MOTHER BOARD	W6T5NSBW	09BS3MTHAT	BD: SERIAL 3 CARD MOTHER-TEST	LOW VOLT BOX
BMTH3	BOARD-3 CARD MOTHER BOARD	W6T5NSCL1	08BS3MTHAT	BD: SERIAL 3 CARD MOTHER-TEST	CHEM FLOW BX
BMTH3	BOARD-3 CARD MOTHER BOARD	W6T5NSCL2	08BS3MTHAT	BD: SERIAL 3 CARD MOTHER-TEST	CHEM FLOW BX
BMTH3	BOARD-3 CARD MOTHER BOARD	W6T5NSCL3	08BS3MTHAT	BD: SERIAL 3 CARD MOTHER-TEST	CHEM FLOW BX
BO24-1	BOARD-24 OUTPUT #1	W6T5NSBW	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO24-2	BOARD-24 OUTPUT #1	W6T5NSBW	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO24-3	BOARD-24 OUTPUT #1	W6T5NSBW	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BPB	BOARD-MICROPROCESSOR	W6T5NSBW	08BSPE2T	186 PROC BD+FP->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR	W6T5NSPI	08BSPET	186 SERIAL PROCESSOR->TEST	PROCESSOR BX
CD	>>RELAY-TIME DELAY				
CDSDR	DELAY-SAMPLE DOOR RELEASE	W6T5NSDS	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	LOW VOLT BOX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
CDVS	DELAY-VARIABLE SPEED FAULT	W6T5NSVP		09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	HIGH VOLT BX
CDWA	DELAY-CCW WASH	W6T5NSVP		09CF001037	TDR F1S 2PDT 11PIN 120V60C	HIGH VOLT BX
CDWC	DELAY-CW-WASH	W6T5NSVP		09CF001037	TDR F1S 2PDT 11PIN 120V60C	HIGH VOLT BX
CDX	DELAY-HYD DOOR OPEN	W6T5NASPD		MESSAGE MS	SOME PRODUCT STRUCTURE MISSING	DRYEL ASSBLY
CL	>>RELAY-LATCH					
CLPP	LATCH-ENABLE DOOR PRESSURE	W6T5NSS+		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CR	>>RELAY-PILOT OR CONTROL					
CRC+	RELAY-MANUAL CHEMICAL INJECT	W6T5NSDT		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRC+A	RELAY-CHEMICAL INJECT	W6T5NSDT		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRCL	RELAY-INJECT LEFT	W6T5NSDT		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRCMF	RELAY-DYE CHEM MANIFOLD DESIRED	W6T5NSDT		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRDO	RELAY-DOOR FULLY OPEN	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRDO	RELAY-DOOR FULLY OPEN	W6T2NARGE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CREXA	RELAY-AMPSAVER AMPS O.K.	W6T5NSEA		09C024D24	RELAY 4PDT DIFGLD 14PIN 24V	LOW VOLT BOX
CRDRR	RELAY-DRAIN TO REUSE	W6T5NSEV		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFD	RELAY-TILT FULLY DOWN	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFD	RELAY-TILT FULLY DOWN	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFD	RELAY-FILTER DOOR IS CLOSED	W6T5NSDV		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFDT	RELAY-ENABLE FILL	W6T5NSDX		09C024D37	4PDT "KH" 110/120V	HEAT EXCH BOX
CRFU	RELAY-TILT FULLY UP	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFU	RELAY-TILT FULLY UP	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRHDD	RELAY-DRYEL DOWN	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	DRYEL ASSBLY
CRHDU	RELAY-DRYEL UP	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	DRYEL ASSBLY
CRHTD	RELAY-DOOR FULLY OPEN	W6T5NSRGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRLDP	RELAY-LEVEL BELOW SAMPLE DOOR	W6T5NSDS		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRMAM	RELAY-MANUAL	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRMAM	RELAY-MANUAL	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRMAM	RELAY-MANUAL	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRMAM	RELAY-MANUAL	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRMAQ	RELAY-MANUAL	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRMAQ	RELAY-MANUAL	W6T5NARGA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPLL	RELAY-DOOR CLOSED	W6T5NARGE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPLL	RELAY-DOOR CLOSED	W6T5NAS+		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPLL	RELAY-DOOR CLOSED	W6T5NAS+D		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CRPP	RELAY-ENABLE PORTAL PRESSURE	W6T5NAS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPP	RELAY-ENABLE PORTAL PRESSURE	W6T5NAS+D	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPPO	RELAY-DOOR SEALED	W6T5NSDP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRRT	RELAY-TEMP ERROR	W6T5NSDV	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6T5NAS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6T5NAS+D	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6T5NSS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+A	RELAY-START 3-WIRE	W6T5NAS+	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRS+A	RELAY-START 3-WIRE	W6T5NAS+D	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRS+A	RELAY-START 3-WIRE	W6T5NSS+	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRS+B	RELAY-3-WIRE	W6T5NSEA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSP	RELAY-SPEED IS SLOW	W6T5NASP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSP	RELAY-SPEED IS SLOW	W6T5NASPD	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSP	RELAY-SPEED IS SLOW	W6T5NSSP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSPA	RELAY-SPEED IS SLOW	W6T5NASP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSPA	RELAY-SPEED IS SLOW	W6T5NASPD	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSPA	RELAY-SPEED IS SLOW	W6T5NSSP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRVU	RELAY-CHEMICAL INJECT	W6T5NSDT	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CS	>>CONTACTOR-MOTOR STARTER				
CSDR	CONTACTOR-DRAIN MOTOR	W6T5NSMC	09MC04E337	30A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSE1	CONTACTOR-LOW EXTRACTOR MOTOR	W6T5NSMC	09MC04E337	30A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSE2	CONTACTOR-HIGH EXTRACTOR MOTOR	W6T5NSMC	09MC04N337	75A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSHYP	CONTACTOR-HYDRULIC PUMP	W6T5NARGA	09MC04E337	30A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSHYP	CONTACTOR-HYDRULIC PUMP	W6T5NARGE	09MC04E337	30A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSHYP	CONTACTOR-HYDRULIC PUMP	W6T5NSRGA	09MC04E337	30A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSPR	CONTACTOR-RECIRCULATION PUMP	W6T5NSDY	09MC04D337	25A 3P CONT.NR 120V5/6 IEC	DYE TNK CBOX
CSP10	CONTACTOR-MIXER MTR DYE TANK 10	W6T5NSDW	09MC04D337	25A 3P CONT.NR 120V5/6 IEC	DYE TNK CBOX
CSP11	CONTACTOR-MIXER MTR DYE TANK 11	W6T5NSDW	09MC04D337	25A 3P CONT.NR 120V5/6 IEC	DYE TNK CBOX
CSVs	CONTACTOR-VARIABLE SPEED	W6T5NSVP	09MC04J337	45A 3P CONTACTOR NOR 120V5/6 IEC	HIGH VOLT BX
EB	>>BUZZER OR AUDIBLE SIGNAL				
EBSG	BUZZER-SIGNAL AUDIBLE	W6T5NAS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
EBSG	BUZZER-SIGNAL AUDIBLE	W6T5NAS+D	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
EBSG	BUZZER-SIGNAL AUDIBLE	W6T2NSS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL

COMPONENT PARTS LIST

W6T5NSPL/2008046N

<u>COMPONENT</u>	<u>FUNCTION OF</u>	<u>WHERE TO FIND</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
EDP	>>PRINTER-ELECTRONIC				
EDPM	PRINTER-MICROPROCESSOR	W6T5NSPI	08MP SEREPN	PRINTER - EPSON LX300	REMOTE MOUNT
EF	>>FUSE OR FUSE HOLDER				
EF1	FUSE-PRIMARY INCOMING VOLTAGE	W6T5NSPS	09FF005AWN	BUSE BUSS KTK 5AMP 600V=HPS HOLDER	HIGH VOLT BX
EF2	FUSE-PRIMARY INCOMING VOLTAGE	W6T5NSPS	09FF005AWN	BUSE BUSS KTK 5AMP 600V=HPS HOLDER	HIGH VOLT BX
EF1	FUSE-WASH MOTOR	W6T5NSMT	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EF2	FUSE-LOW SPEED WASH MOTOR	W6T5NSMT	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EF3	FUSE-DRAIN MOTOR	W6T5NSMT	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EF37	FUSE-120VAC CONTROL CIRCUIT	W6T5NSPS	09FF006AMA	FUSE BK/ABC 6 AMP 250V BUSS	HIGH VOLT BX
EF4	FUSE-HYDRAULIC MOTOR	W6T5NSMT	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EL	>>LIGHT-PILOT OR INDICATOR				
ELCAD	LIGHT-DRAIN TANK 10	W6T5NSDU	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELCBD	LIGHT-DRAIN TANK 11	W6T5NSDU	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC6D	LIGHT-DRAIN TANK 6	W6T5NSDT	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC7D	LIGHT-DRAIN TANK 7	W6T5NSDT	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC8D	LIGHT-DRAIN TANK 8	W6T5NSDT	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC9D	LIGHT-DRAIN TANK 9	W6T5NSDU	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELDTF	LIGHT-DYE TANK FILL ENABLE	W6T5NSDX	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELEBK	LIGHT-BALANCE EXCURSION	W6T5NSI1A	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BALANCE SWPL
ELEB1	LIGHT-EXTRACT BALANCE RIB #1	W6T5NSEB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BALANCE SWPL
ELEB2	LIGHT-EXTRACT BALANCE RIB #2	W6T5NSEB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BALANCE SWPL
ELEB3	LIGHT-EXTRACT BALANCE RIB #3	W6T5NSEB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BALANCE SWPL
ELFSG	LIGHT-ROTATION SIGNAL BEACON	W6T5NAS+	09H025V37	BEACON ROT.120V 5.5"DIA AMB #MV110	FRONT OF MCH
ELFSG	LIGHT-ROTATION SIGNAL BEACON	W6T5NAS+D	09H025V37	BEACON ROT.120V 5.5"DIA AMB #MV110	FRONT OF MCH
ELFSG	LIGHT-ROTATION SIGNAL BEACON	W6T5NSS+	09H025V37	BEACON ROT.120V 5.5"DIA AMB #MV110	FRONT OF MCH
ELSG	LIGHT-SIGNAL VISUAL	W6T5NAS+	09J060WH37	LAMP 1/2" WH 120 TAB IDI1050QC4	SWITCH PANEL
ELSG	LIGHT-SIGNAL VISUAL	W6T5NAS+D	09J060WH37	LAMP 1/2" WH 120 TAB IDI1050QC4	SWITCH PANEL
ELSG	LIGHT-SIGNAL VISUAL	W6T5NSS+	09J060WH37	LAMP 1/2" WH 120 TAB IDI1050QC4	SWITCH PANEL
EM	>>ELECTROMAGNET AND SOLENOID				
EMCF	FAN-INVERTER COOLING	W6T5NSVP	13AF100A37	FAN 92CFM115V60 NEWARK #90F6921	VARI SPD BOX
ES	>>POWER SUPPLY-ELECTRONIC				
ESPS	POWER SUPPLY-120V TO +12,-12,+5V	W6T5NSBW	08PSS3401T	30 WATT POWER SUPPLY TESTED	LOW VOLT BOX
ET	>>THERMAL OVERLOAD DEVICES				

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT		THIS COMPONENT				
ETDB	OVERLOAD-DYNAMIC BRAKE		W6T5NSVP		09F024A	OL RELAY 1P SZ1 SQD #9065-C01	HIGH VOLT BX
ETDR	OVERLOAD-DRAIN MOTOR		W6T5NSMT		09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETE1	OVERLOAD-LOW EXTRACT MOTOR		W6T5NSMT		09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETE2	OVERLOAD-HIGH EXTRACT MOTOR		W6T5NSMT		09FTC0230T	OL RELAY 23-75A AB #193-A3K3	HIGH VOLT BX
ETHYP	OVERLOAD-HYDRAULIC PUMP MOTOR		W6T5NSMT		09FTC0121T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETWA	OVERLOAD-WASH MOTOR		W6T5NSMT		09FTC0230T	OL RELAY 23-75A AB #193-A3K3	HIGH VOLT BX
EX	>>TRANSFORMERS						
EX37	TRANSFORMER-INCOMING VOLT.120VAC		W6T5NSPS		MESSAGE EW	SEE EX37-1, -2, OR -3 FOR VOLTAGE	HIGH VOLT BX
EX37-1	TRANSFORMER-208/240>120VAC		W6T5NSPS		09U249AA37	XFMR 200-240V PRI/120VSEC/250VA	HIGH VOLT BX
EX37-2	TRANSFORMER-380/480>120VAC		W6T5NSPS		09U200AAB	XFMR 380-480V/240-120V-250VA	HIGH VOLT BX
EX37-3	TRANSFORMER-600->120VAC		W6T5NSPS		09U251AB37	XFMR 600V PRI/120VSC-250VA-3%REG	HIGH VOLT BX
EX96A	TRANSFORMER-600V TO 480V		W6T5NSMT6		09US050A96	XFMR 1PH 5KVA 240/208X120/240	600V BOX
EX96B	TRANSFORMER-600V TO 480V		W6T5NSMT6		09US050A96	XFMR 1PH 5KVA 240/208X120/240	600V BOX
KB	>>KEYBOARD-ELECTRONIC						
KBM	KEYPAD-MICROPROCESSOR		W6T5NSKP		08ND5X6WE	KEYPAD:5X6MATRIX WASHER-EXT	SWITCH PANEL
MR	>>MOTORS						
MTDR	MOTOR-DRAIN		W6T5NSMT		MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	DRIVE BASE
MTE1	MOTOR-LOW SPEED EXTRACT		W6T5NSMT		MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	DRIVE BASE
MTE2	MOTOR-HIGH SPEED EXTRACT		W6T5NSMT		MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	DRIVE BASE
MTHYD	MOTOR-HYDRAULIC PUMP		W6T5NSMT		MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	MACHINE BASE
MTWA	MOTOR-WASH		W6T5NSMT		MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	DRIVE BASE
MV	>>MOTOR POWER INVERTERS						
MVDBR	RESISTOR-DYNAMIC BRAKE		W6T5NSVP		09MV100RES	RESIST 100 OHM 225WATT ADJ	HIGH VOLT BX
MWA	INVERTER-WASH MOTOR		W6T5NSVP		MESSAGE EW	SEE MWAH OR MWAL FOR VOLTAGE	HIGH VOLT BX
MWAH	INVERTER-WASH MOTOR 380-460V		W6T5NSVP		09MV021A96	VARSPEED 21 AMPS 460V	HIGH VOLT BX
MWAL	INVERTER-WASH MOTOR 200-230V		W6T5NSVP		09MV036A74	VARSPEED 36 AMPS 230V	HIGH VOLT BX
PX	>>PROXIMITY SWITCH						
PXBA	PROX SW-BALANCE		W6T5NSEC		09RPS30ADS	PRXSW QK CONN 30M NO-DC SHLD	REAR OF MACH
PXDO	PROX SW-DOOR OPEN		W6T5NALAD		09RPS30BAS	PRXSW QK CONN 30M NC-AC SHLD	DRYEL ASSBLY
PXEB	PROX SW- ELBOW BLOCK		W6T5NAI2D		09RPS30ADS	PRXSW QK CONN 30M NO-DC SHLD	DRYEL ASSBLY
PXEP	PROX SW- EXTRACT LEVEL		W6T5NS1A		09RPS30ADS	PRXSW QK CONN 30M NO-DC SHLD	SIDE OF MACH
PXFD	PROX SW-FULL DOWN		W6T5NARGA		09RPS30AAS	PRXSW QK CONN 30M NO-AC SHLD	SIDE OF MACH
PXFD	PROX SW-FULL DOWN		W6T5NARGE		09RPS30AAS	PRXSW QK CONN 30M NO-AC SHLD	SIDE OF MACH

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT		THIS COMPONENT				
PXFD	PROX SW-FULL DOWN		W6T5NSRGA		09RPS30AAS	PRXSW QK CONN 30M NO-AC SHLD	SIDE OF MACH
PXFU	PROX SW-FULL UP		W6T5NARGA		09RPS30AAS	PRXSW QK CONN 30M NO-AC SHLD	SIDE OF MACH
PXFU	PROX SW=FULL UP		W6T5NARGE		09RPS30AAS	PRXSW QK CONN 30M NO-AC SHLD	SIDE OF MACH
PXFU	PROX SW-FULL UP		W6T5NSRGA		09RPS30AAS	PRXSW QK CONN 30M NO-AC SHLD	SIDE OF MACH
PXW/P	PROX SW-WASH LEVEL		W6T5NSILA		09RPS30ADS	PRXSW QK CONN 30M NO-DC SHLD	SIDE OF MACH
SH	>>SWITCH-HAND OPERATED						
SHAM	SWITCH-AUTO MANUAL		W6T5NARGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	TILT SWPNL
SHAM	SWITCH-AUTO MANUAL		W6T5NARGE		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	TILT SWPNL
SHC+	SWITCH -MANUAL CHEMICAL INJECT		W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CLDOWN SWPL
SHC+	SWITCH -MANUAL CHEMICAL INJECT		W6T5NSI2		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CLDOWN SWPL
SHCAD	SWITCH-CHEMICAL 10 DRAIN		W6T5NSDU		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCAF	SWITCH-CHEMICAL 10 FLUSH		W6T5NSDU		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCBD	SWITCH-CHEMICAL 11 DRAIN		W6T5NSDU		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCBF	SWITCH-CHEMICAL 11 FLUSH		W6T5NSDU		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCCD	SWITCH-CHEMICAL 12 DRAIN		W6T5NSDZ		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCCF	SWITCH-CHEMICAL 12 FLUSH		W6T5NSDZ		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCD	SWITCH-MANUAL COOLDOWN		W6T5NSI2		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CLDOWN SWPL
SHCDD	SWITCH-CHEMICAL 13 DRAIN		W6T5NSDZ		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCDF	SWITCH-CHEMICAL 13 FLUSH		W6T5NSDZ		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHCMF	SWITCH-DYE CHEM MANIFOLD FLUSH		W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	FL TNK VLV BX
SHCMF*	SWITCH-DYE CHEM MANIFOLD FLUSH		W6T5NSDT		09N400CBNC	CONTACT BLKONLY 1-NC SQD#ZB2BE102	FL TNK VLV BX
SHCR	SWITCH-INJECT RIGHT		W6T5NSCF		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SUPPLY SWPNL
SHC1	SWITCH-MANUAL FLUSH CHEM. 1		W6T5NSCF		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SUPPLY SWPNL
SHC2	SWITCH-MANUAL FLUSH CHEM. 2		W6T5NSCF		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SUPPLY SWPNL
SHC3	SWITCH-MANUAL FLUSH CHEM. 3		W6T5NSCF		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SUPPLY SWPNL
SHC4	SWITCH-MANUAL FLUSH CHEM. 4		W6T5NSCF		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SUPPLY SWPNL
SHC5	SWITCH-MANUAL FLUSH CHEM. 5		W6T5NSCF		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SUPPLY SWPNL
SHC6D	SWITCH-CHEMICAL 6 DRAIN		W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC6D*	SWITCH-CHEMICAL 6 DRAIN		W6T5NSDT		09N400CBNC	CONTACT BLKONLY 1-NC SQD#ZB2BE102	DYE TK SWPNL
SHC6F	SWITCH-CHEMICAL 6 FLUSH		W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC6F*	SWITCH-CHEMICAL 6 FLUSH		W6T5NSDT		09N400CBNC	CONTACT BLKONLY 1-NC SQD#ZB2BE102	DYE TK SWPNL
SHC7D	SWITCH-CHEMICAL 7 DRAIN		W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC7D*	SWITCH-CHEMICAL 7 DRAIN		W6T5NSDT		09N400CBNC	CONTACT BLKONLY 1-NC SQD#ZB2BE102	DYE TK SWPNL

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND</u>		<u>MIL NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
		<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
SHC7F	SWITCH-CHEMICAL 7 FLUSH	W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC7F*	SWITCH-CHEMICAL 7 FLUSH	W6T5NSDT		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	DYE TK SWPNL
SHC8D	SWITCH-CHEMICAL 8 DRAIN	W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC8D*	SWITCH-CHEMICAL 8 DRAIN	W6T5NSDT		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	DYE TK SWPNL
SHC8F	SWITCH-CHEMICAL 8 FLUSH	W6T5NSDT		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC8F*	SWITCH-CHEMICAL 8 FLUSH	W6T5NSDT		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	DYE TK SWPNL
SHC9D	SWITCH-CHEMICAL 9 DRAIN	W6T5NSDU		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHC9F	SWITCH-CHEMICAL 9 FLUSH	W6T5NSDU		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHD+	SWITCH-MANUAL CHEMICAL INJECT	W6T5NSDW		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SHOC	SWITCH0DIRECT MANUAL COOLDOWN	W6T5NSI2		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CLDOWN SWPL
SHDO	SWITCH-DOOR OPEN	W6T5NARGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NARGE		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NAS+		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NAS+D		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NASP		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NASPD		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NSRGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NSS+		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6T5NSSP		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHEAK	SWITCH-AMPSAVER/MACHINE	W6T5NSEA		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	LOW VOLT BOX
SHFDO	SWITCH-OPEN FILTER DOOR	W6T5NSDV		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	FILT SWPNL
SHMD	SWITCH-LOCAL/REMOTE (MILDATA)	W6T5NSI1A		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	PROCESSOR BX
SHRM	SWITCH-TILT UP/DOWN	W6T5NARGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHRM	SWITCH-TILT UP/DOWN	W6T5NARGE		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHRM	SWITCH-TILT UP/DOWN	W6T5NSRGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHS+	SWITCH-START 3-WIRE	W6T5NAS+		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHS+	SWITCH-START 3-WIRE	W6T5NAS+D		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHS+	SWITCH-START 3-WIRE	W6T5NSS+		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHSAD	SWITCH-SAMPLE DESIRED	W6T5NSDS		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CLDOWN SWPL
SHSAR	SWITCH-SAMPLE RESET	W6T5NSDS		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	CLDOWN SWPL
SHSG	SWITCH-SIGNAL CANCEL	W6T5NSI1A		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHSMA	SWITCH-MASTER	W6T5NASP		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHSMA	SWITCH-MASTER	W6T5NASPD		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
SHSMA	SWITCH-MASTER	W6T5NSSP		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHSO	SWITCH-STOP	W6T5NAS+		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	SWITCH PANEL
SHSO	SWITCH-STOP	W6T5NAS+D		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	SWITCH PANEL
SHSO	SWITCH-STOP	W6T5NSS+		09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6T5NAS+		09N505	SW ASSY EMER STOP	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6T5NAS+D		09N505	SW ASSY EMER STOP	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6T5NSS+		09N505	SW ASSY EMER STOP	SWITCH PANEL
SHWDO	SWITCH-HYD DOOR OPEN	W6T5NARGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWDO	SWITCH-HYD DOOR OPEN	W6T5NARGE		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWDO	SWITCH-HYD DOOR OPEN	W6T5NASP		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWDO	SWITCH-HYD DOOR OPEN	W6T5NASPD		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWDO	SWITCH-HYD DOOR OPEN	W6T5NSRGA		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWJ	SWITCH-JOG CW/CCW	W6T5NAS+		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWJ	SWITCH-JOG CW/CCW	W6T5NAS+D		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SHWJ	SWITCH-JOG CW/CCW	W6T5NSS+		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SH00A	SWITCH-MANUAL ON/OFF DYE TANK 10	W6T5NSDW		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	SWITCH PANEL
SH00B	SWITCH-MANUAL ON/OFF DYE TANK 11	W6T5NSDW		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SH1	SWITCH-FILL DYE TANK 10 & 11	W6T5NSDW		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SH1	SWITCH-ENABLE FILL DYE TANKS	W6T5NSDX		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SH10	SWITCH-ENABLE FILL DYE TANKS 10	W6T5NSDX		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SH11	SWITCH-ENABLE FILL DYE TANKS 11	W6T5NSDX		09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SK	>>SWITCH-KEYLOCK					
SKPR	SWITCH-RUN/PROGRAM (KEY OP)	W6T5NSI1A		09N127C	KEYSW SPST 7A120VAC SCREW TERM	SWITCH PANEL
SM	>>SWITCH-MECHANICAL OPERATED					
SMDLD	SWITCH-DOOR LOCKED DOWN	W6T5NALAD		MESSAGE MS	SOME PRODUCT STRUCTURE MISSING	DRYEL ASSBLY
SMDO	SWITCH-DOOR IS FULL OPEN	W6T5NARGA		09R008BSTD	09R008B+MOUNTING HDWRE+INST	DOOR ASSEMBY
SMDO	SWITCH-DOOR IS FULL OPEN	W6T5NARGE		09R008BSTD	09R008B+MOUNTING HDWRE+INST	DOOR ASSEMBY
SMDO	SWITCH-DOOR IS FULL OPEN	W6T5NSRGA		09R008BSTD	09R008B+MOUNTING HDWRE+INST	DOOR ASSEMBY
SMERB	SWITCH-EXCURSION	W6T5NSI1A		09R008A	MICSW SPDT PAINTED BZE6-RN 01	MACH HOUSE
SMFM1	SWITCH-FILTER DOOR	W6T5NSDV		09RM01212G	CAPSW 12FT 180DEG ROLLED GOLD	FILTER TANK
SMFM2	SWITCH-FILTER DOOR	W6T5NSDV		09RM01212G	CAPSW 12FT 180DEG ROLLED GOLD	FILTER TANK
SMFM3	SWITCH-FILTER DOOR LATCHED	W6T5NSDV		09RM01212G	CAPSW 12FT 180DEG ROLLED GOLD	FILTER TANK
SMPLL	SWITCH-DOOR LATCHED	W6T5NAS+		09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBL

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND</u>		<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
		<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
SMPLL	SWITCH-DOOR LATCHED	W6T5NAS+D		09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBL
SMPLL	SWITCH-DOOR LATCHED	W6T5NSS+		09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBL
SMSDC	SWITCH-DOOR SAMPLE	W6T5NSDS		09RM01212G	CAPSW 12FT 180DEG ROLLED GOLD	SAMPLE DOOR
SMSDD	SWITCH-DOOR SAMPLE	W6T5NSDS		09RM01212G	CAPSW 12FT 180DEG ROLLED GOLD	SAMPLE DOOR
S MSP	SWITCH-SPEED	W6T5NASP		SAE03-012B	SLIPRING+CENT SW.ASSY(LORES)	DRIVE ASSEMBY
S MSP	SWITCH-SPEED	W6T5NASPD		SAE03-012B	SLIPRING+CENT SW.ASSY(LORES)	DRIVE ASSEMBY
S MSP	SWITCH-SPEED	W6T5NSSP		SAE03-012B	SLIPRING+CENT SW.ASSY(LORES)	DRIVE ASSEMBY
SMWVB	SWITCH-MACHINE VIBRATION	W6T5NAS+		09R020	SWITCH NC VIBR #WZ-2RW84429-P52	HIGH VOLT BX
SMWVB	SWITCH-MACHINE VIBRATION	W6T5NAS+D		09R020	SWITCH NC VIBR #WZ-2RW84429-P52	HIGH VOLT BX
SMWVB	SWITCH-MACHINE VIBRATION	W6T5NSS+		09R020	SWITCH NC VIBR #WZ-2RW84429-P52	HIGH VOLT BX
SP	>>SWITCH-PRESSURE OPERATED					
SPBR	PRESSURE SW-BRAKE	W6T5NS11A		09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BX
SPDLU	SWITCH-DRYEL UP DEFLATE	W6T5NARGE		MESSAGE MS	SOME PRODUCT STRUCTURE MISSING	DRYEL ASSBLY
SPLDP	PRESSURE SW-LEVEL BELOW DOOR	W6T5NASP		09N069	PRESS SWITCH 4"WC EATON738-719	LOW VOLT BOX
SPLDP	PRESSURE SW-LEVEL BELOW DOOR	W6T5NASPD		09N069	PRESS SWITCH 4"WC EATON738-719	LOW VOLT BOX
SPLDP	PRESSURE SW-LEVEL BELOW DOOR	W6T5NSSP		09N069	PRESS SWITCH 4"WC EATON738-719	LOW VOLT BOX
SPLP1	SWITCH-LEVEL BELOW SAMPLE DOOR	W6T5NSDS		09N071	PRESS SW.10"WC EATON#738-719	LOW VOLT BOX
SPLP2	SWITCH-LEVEL BELOW SAMPLE DOOR	W6T5NSDS		09N071	PRESS SW.10"WC EATON#738-719	LOW VOLT BOX
SPWDP	SWITCH-DOOR PRESSURE	W6T5NASP		09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BX
SPWDP	SWITCH-DOOR PRESSURE	W6T5NASPD		09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BX
SPWDP	SWITCH-DOOR PRESSURE	W6T5NSSP		09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BX
ST	>>SWITCH-TEMPERATURE					
STTTA	SWITCH-TEMP SAFETY	W6T5NSDV		30R0300PS	THERMOSW.FINWAL CLOSE @ 300F	FILTER TANK
STTTB	SWITCH-TEMP SAFETY	W6T5NSDV		30R0300PS	THERMOSW.FINWAL CLOSE @ 300F	FILTER TANK
VE	>>VALVE-ELECTRIC OPERATED					
VECAD	VALVE-DRAIN TANK 10	W6T5NSDU		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECAF	VALVE-FLUSH TANK 10	W6T5NSDU		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECBD	VALVE-DRAIN TANK 11	W6T5NSDU		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECBF	VALVE-FLUSH TANK 11	W6T5NSDU		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECCD	VALVE-DRAIN TANK 12	W6T5NSDZ		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECCF	VALVE-FLUSH TANK 12	W6T5NSDZ		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TANK
VECDD	VALVE-DRAIN TANK 13	W6T5NSDZ		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECDF	VALVE-FLUSH TANK 13	W6T5NSDZ		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TANK

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
VECFM	VALVE-FLUSH MANIFOLD	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VECMF	VALVE-DYE CHEM MANIFOLD FLUSH	W6T5NSDT		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TK VLVBX
VEC01	VALVE-CHEMICAL #1 FLUSH	W6T5NSCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC02	VALVE-CHEMICAL #2 FLUSH	W6T5NSCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH	W6T5NSCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH	W6T5NSCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH	W6T5NSCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC06	VALVE-CHEMICAL #6	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC07	VALVE-CHEMICAL #7	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC08	VALVE-CHEMICAL #8	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC09	VALVE-CHEMICAL #9	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC10	VALVE-CHEMICAL #10	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC11	VALVE-CHEMICAL #11	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC12	VALVE-CHEMICAL #12	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC13	VALVE-CHEMICAL #13	W6T5NSCX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC6D	VALVE-DRAIN TANK 6	W6T5NSDT		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC6F	VALVE-FLUSH TANK 6	W6T5NSDT		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DYE TNK VLVBX
VEC7D	VALVE-DRAIN TANK 7	W6T5NSDT		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TANK
VEC7F	VALVE-FLUSH TANK 7	W6T5NSDT		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DYE TNK VLVBX
VEC8D	VALVE-DRAIN TANK 8	W6T5NSDT		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TANK
VEC8F	VALVE-FLUSH TANK 8	W6T5NSDT		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DYE TNK VLVBX
VEC9D	VALVE-DRAIN TANK 9	W6T5NSDU		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TANK
VEC9F	VALVE-FLUSH TANK 9	W6T5NSDU		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DYE TNK VLVBX
VEDBL	VALVE-DRYEL BLOWER	W6T5NARGE		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DRYEL ASSBLY
VEDF	VALVE-DRAIN FLUSH	W6T5NSMC		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEDF	VALVE-DRAIN FLUSH	W6T5NSSP		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEDRR	VALVE-DRAIN TO REUSE	W6T5NSEV		96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEDRS	VALVE-DRAIN TO SEWER	W6T5NSEV		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEDRT	VALVE-DRAIN TO SEWER	W6T5NSEV		96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEDST	VALVE-DIRECT STEAM PILOT	W6T5NSST		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEEB1	VALVE-BALANCE FILL RIB #1	W6T5NSEB		96P053A37	3/4" VAL 110V HAYS #2110-6021S	BASKET REAR
VEEB2	VALVE-BALANCE FILL RIB #2	W6T5NSEB		96P053A37	3/4" VAL 110V HAYS #2110-6021S	BASKET REAR
VEEB3	VALVE-BALANCE FILL RIB #3	W6T5NSEB		96P053A37	3/4" VAL 110V HAYS #2110-6021S	BASKET REAR

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
VEFDL	VALVE-RELEASE RATCHET	W6T5NSSP		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEFL	VALVE-FLUSH DRYEL	W6T5NARGE		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DRYEL ASSBLY
VEF10	VALVE-FILL TANK 10	W6T5NSDX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEF11	VALVE-FILL TANK 11	W6T5NSDX		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEHDC	VALVE-HYD DOOR CLOSED	W6T5NASP		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHDC	VALVE-HYD DOOR CLOSED	W6T5NASPD		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHDC	VALVE-HYD DOOR CLOSED	W6T5NSS+		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHDD	VALVE-DRYEL DOWN	W6T5NARGE		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DRYEL ASSBLY
VEHDL	VALVE-TILT DOOR LATCH	W6T5NASP		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEHDL	VALVE-TILT DOOR LATCH	W6T5NASPD		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEHDL	VALVE-TILT DOOR LATCH	W6T5NSSP		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEHDO	VALVE-HYD DOOR OPEN	W6T5NASP		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHDO	VALVE-HYD DOOR OPEN	W6T5NASPD		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHDO	VALVE-HYD DOOR OPEN	W6T5NSS+		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHDU	VALVE-DRYEL DOWN	W6T5NARGE		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DRYEL ASSBLY
VEHTD	VALVE-HYD TILT DOWN	W6T5NARGA		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHTD	VALVE-HYD TILT DOWN	W6T5NARGE		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHTD	VALVE-HYD TILT DOWN	W6T5NSRGA		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHTU	VALVE-HYD TILT UP	W6T5NARGA		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHTU	VALVE-HYD TILT UP	W6T5NARGE		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEHTU	VALVE-HYD TILT UP	W6T5NARGA		96RH705E37	VALVE-HYD.VICKERS#DG4S4W012CB60	HYDRAULIC PL
VEILU	VALVE-DRYEL UP DEFLATE	W6T5NARGE		96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	DRYEL ASSBLY
VEL	VALVE-OPEN DOOR	W6T5NSDV		96TBC2AA37	1/4" N/C 2WAY 120V50/60C	AIR VALVE BX
VELRU	VALVE-DRYEL UP LOCKED RELEASE	W6T5NARGE		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DRYEL ASSBLY
VEMSR	VALVE-MOD. STEAM/COOLDOWN RAMP	W6T5NSBW		96S2001	MOTOR 160 DEG/60 SEC 24V50/60	STEAM INLET
VEPL	VALVE-DOOR LATCH	W6T5NASP		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPL	VALVE-DOOR LATCH	W6T5NASPD		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPL	VALVE-DOOR LATCH	W6T5NSSP		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPPO	VALVE-DOOR SEAL	W6T5NASP		96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEPPO	VALVE-DOOR SEAL	W6T5NASPD		96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEPPO	VALVE-DOOR SEAL	W6T5NSSP		96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEPR	VALVE-FLUSH RECIRCULATION PUMP	W6T5NSDY		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPRX	VALVE-DRAIN STEAM SIDE HEAT EXCHG	W6T5NSDY		96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND</u>		<u>DESCRIPTION</u>	<u>LOCATION</u>
		<u>THIS COMPONENT</u>	<u>MIL NOR P/N</u>		
VERIM	VALVE-RIGHT CHEM. INJECT MANIFOLD	W6T5NSCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VERRI	VALVE-DRAIN TO REUSE	W6T5NSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESDL	VALVE-SAMPLE DOOR LATCH	W6T5NSDS	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESP	VALVE-ENABLE SANDPIPER PUMP	W6T5NSDT	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESTM	VALVE-STEAM PILOT	W6T5NSST	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESTV	VALVE-STEAM PILOT VALVE	W6T5NSST	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VETCW	VALVE-STEAM PILOT VALVE	W6T5NSST	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VETCX	VALVE-STEAM PILOT VALVE	W6T5NSST	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWBR	VALVE-BRAKE	W6T5NSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWCL	VALVE-AIR CLUTCH	W6T5NASP	96TBC3BA37	1/4" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWCL	VALVE-AIR CLUTCH	W6T5NASPD	96TBC3BA37	1/4" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWCL	VALVE-AIR CLUTCH	W6T5NSSP	96TBC3BA37	1/4" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWCLA	VALVE-AIR CLUTCH VENT	W6T5NASP	96TBO3BA37	1/4" N/O 3WAY 120V50/60C	AIR VALVE BX
VEWCLA	VALVE-AIR CLUTCH VENT	W6T5NASPD	96TBO3BA37	1/4" N/O 3WAY 120V50/60C	AIR VALVE BX
VEWCLA	VALVE-AIR CLUTCH VENT	W6T5NSSP	96TBO3BA37	1/4" N/O 3WAY 120V50/60C	AIR VALVE BX
VEWVC	VALVE-COLD WATER	W6T5NSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVH	VALVE-HOT WATER	W6T5NSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVX	VALVE-EXTRA WATER	W6T5NSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
WF	>>METER-WATER				
WFM	METER-WATER FLOW	W6T5NSBW	30F515	FLOW SENSOR SIGNET P51530-P0	WATER INLET

PELLERIN MILNOR CORPORATION LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as "equipment"), will be free from defects in material and workmanship for a period of one year from the date of shipment (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will at our option repair or replace the defective part or parts, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is repaired or altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts the warranty time period is 90 days.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

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How to Get the Necessary Repair Components



This document uses Simplified Technical English.

Learn more at <http://www.asd-ste100.org>.

You can get components to repair your machine from the approved supplier where you got this machine. Your supplier will usually have the necessary components in stock. You can also get components from the Milnor® factory.

Tell the supplier the machine model and serial number and this data for each necessary component:

- The component number from this manual
- The component name if known
- The necessary quantity
- The necessary transportation requirements
- If the component is an electrical component, give the schematic number if known.
- If the component is a motor or an electrical control, give the nameplate data from the used component.

To write to the Milnor factory:

Pellerin Milnor Corporation
Post Office Box 400
Kenner, LA 70063-0400
UNITED STATES

Telephone: 504-467-2787
Fax: 504-469-9777
Email: parts@milnor.com

— End of BIUUUD19 —

BIUUUK01 (Published) Book specs- Dates: 20100528 / 20100528 / 20100528 Lang: ENG01 Applic: PCR UUU

How to Use Milnor® Electrical Schematic Diagrams

Milnor® electrical schematic manuals contain a table of contents/component list and a set of schematic drawings. These documents are cross referenced and must be used together.

The table of contents/components list shows, for every component on every schematic in the manual, the component item number (explained in detail below), statement of function, parent schematic number, part number, description and electric box location. In older manuals, two component lists are provided: List 1 sorts the components by function, and List 2 by type of component. Newer schematic manuals include only the list sorted by component number.

The schematic drawings use symbols for each electromechanical component, and indicate the function of each. Integrated circuits are not shown, but the function of each microprocessor input and output is stated. Certain electrical components not pertinent to circuit logic, such as wire connectors, are not represented on the schematic.

Most machines require several schematics to describe the complete control system and all the options available on the included models. In most manuals there are some schematic pages that don't apply to your specific machine because certain options and configurations are mutually exclusive or are not necessary in all markets. You may find it helpful to mark or remove such pages. A schematic page that only applies to a subset of machines will normally state, in the title, which models and/or options it covers. Compare this with the nameplate on your machine and with your purchase records.

Each schematic is devoted to circuits with common functions (e.g., microprocessor inputs, motor contactors). Schematics appear in the manual in alphanumeric order.

1. Component Prefix Classifications and Descriptions

Component item numbers consist of up to six characters and appear as part of a component's symbol on the schematic. The first two characters indicate the general class of component, and the remaining characters are a mnemonic for the function. For example, "CD" is the code for all time delay relays, and "SR" stands for safety reset. Thus, CDSR is a time delay relay that serves as a safety reset.

The following are descriptions of electrical components used in Milnor® machines. Descriptions are in alphabetical order by the component class code (two character prefix).

Note 1: Some component class codes do not have a corresponding symbol, but are represented by a box and an accompanying note describing the component. Examples of such codes are BA (printed circuit board), ED (electronic display), and ES (electronic power supply).

BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

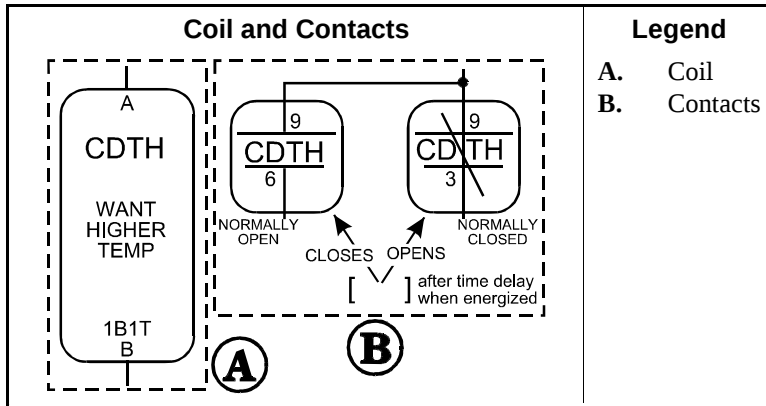
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



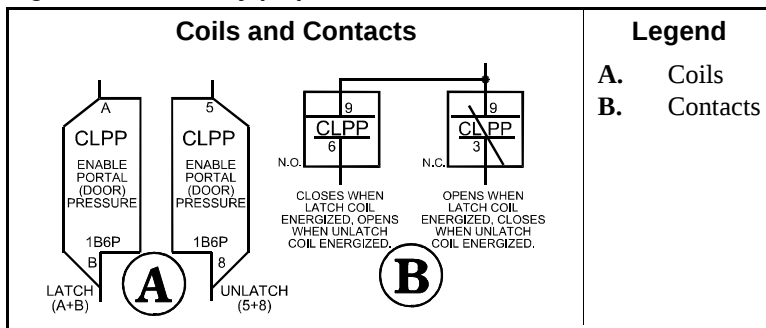
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



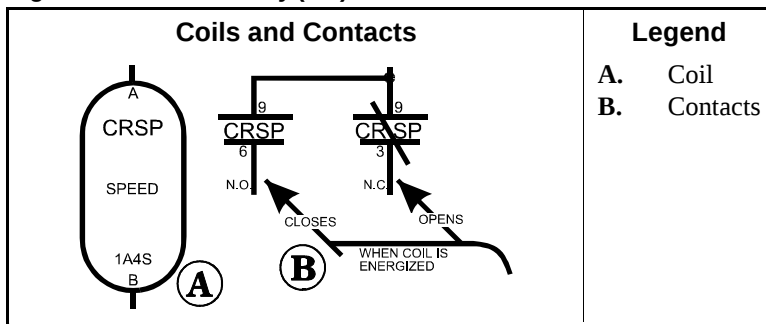
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



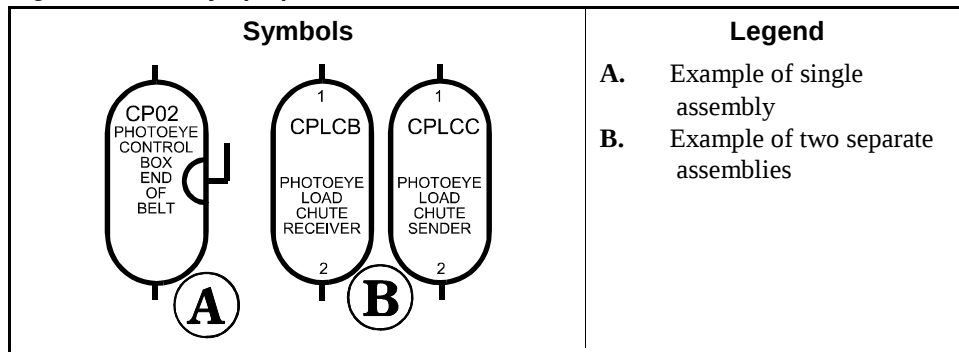
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



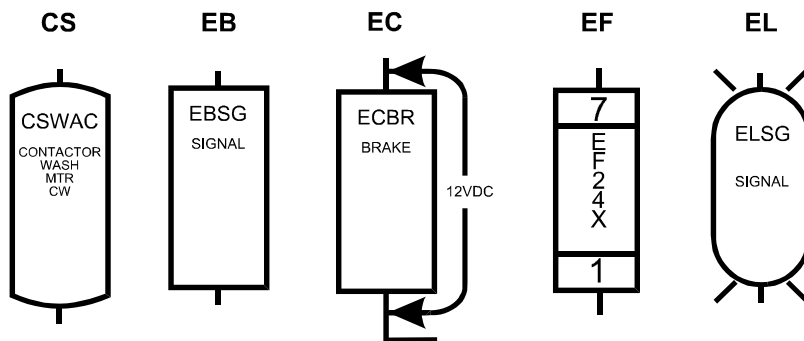
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these components can be housed in two separate assemblies with the transmitter pointed directly at the receiver. The photo-eye can be set to turn on its output either when the light beam becomes blocked (dark operate) or when it becomes un-blocked (light operate).

Figure 5: Photo-eye (CP)



CS=Control, Contactor/Motor Starter (Figure 6)—A relay capable of handling heavier electrical loads, usually a motor.

Figure 6: Other Control Symbols



EB=Electric Buzzer (Figure 6)—An audible signaling device.

EC=Electric Clutch (Figure 6)—A clutch consists of a coil and a rotor. The rotor has two separate rotating plates. These plates are free to rotate independent of each other until the coil is energized. Once energized the two plates turn as one.

ED=Electronic Display—A visual presentation of data, such as an LCD (liquid crystal display), LED (light emitting diode) display, or VFD (vacuum florescent display).

EF=Electric Fuse (Figure 6)—A fuse is an over-current safety device with a circuit opening fusible member which is heated and severed by the passage of over-current through it.

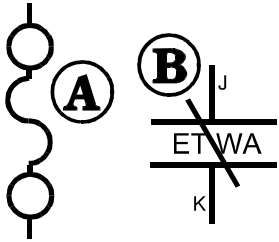
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

EM=Electro Magnet Solenoid—A device consisting of a core surrounded by a wire coil through which an electric current is passed. While current is flowing, iron is attracted to the core (e.g., a pinch tube drain valve solenoid).

ES=Electronic Power Supply—A device that converts AC (alternating current) to filtered and regulated DC (direct current). The input voltage to the power supply is usually 120 or 240 VAC. The output is +5, +12, and -12 VDC.

ET=Thermal Overload (Figure 7)—A safety device designed to protect a motor. A thermal overload consists of an overload block, heaters, and an auxiliary contact. The auxiliary contact is normally installed in a safety (three-wire) circuit that stops power to the motor contactor coil when a motor overload occurs.

Figure 7: Thermal Overload (ET)

Schematic Symbol	Legend
	A. Heater (one per phase) B. Overload relay; contacts open if overload condition exists

EX=Electrical Transformer (Figure 8)—A device that transfers electrical energy from one isolated circuit to another, often raising or lowering the voltage in the process.

KB=Keyboard—Device similar to a typewriter for making entries to a computer.

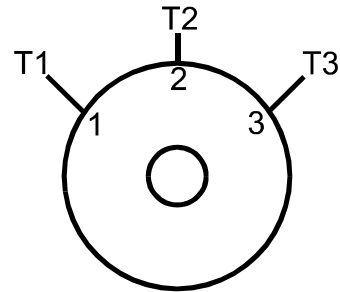
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

MR=Motors (Figure 9)—Electromechanical device that converts electrical energy into mechanical energy.

Figure 8: Transformer (EX)



Figure 9: Electric Motor (MR)

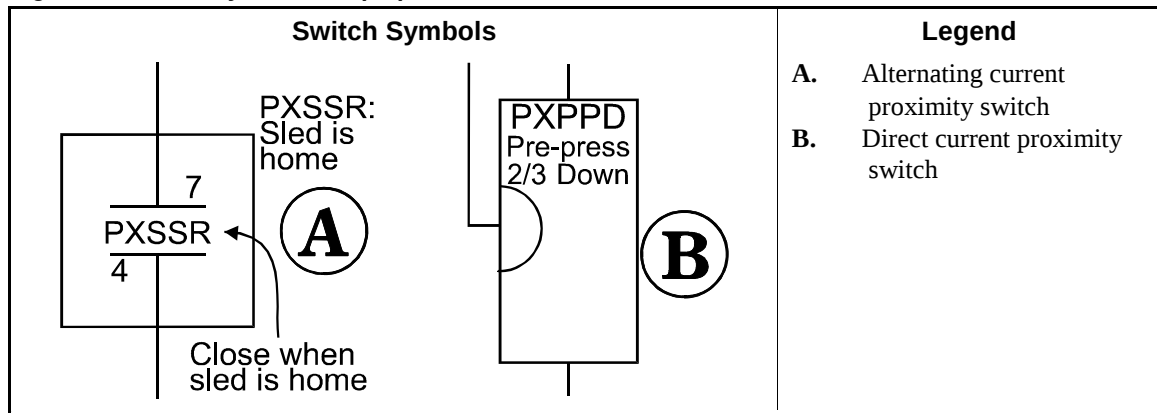


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the proper voltage and frequency for the commanded speed.

Note 2: Switch symbols used in the schematics and described below always depict the switch in its un-actuated state.

PX=Proximity Switch (Figure 10)—A device which reacts to the proximity of a target without physical contact or connection. The actuator or target causes a change in the inductance of the proximity switch which causes the switch to operate. Proximity switches can be two-wire (AC) or three-wire (DC) devices.

Figure 10: Proximity Switches (PX)



SC=Switch, Cam Operated (Figure 11)—A switch in which the electrical contacts are opened and/or closed by the mechanical action of a cam(s). Applications include 35-50 pound timer operated machines, Autospot, timer reversing motor assembly, and some balancing systems.

SH=Switch, Hand Operated (Figure 12)—A switch that is manually operated (e.g., *Start button*, *Master switch*, etc.).

Figure 11: Cam Switch (SC)

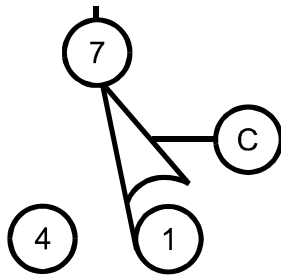
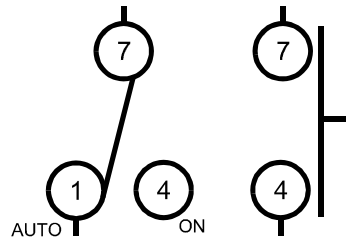


Figure 12: Hand Operated Switch (SH)



SK=Switch, Key Lock (Figure 13)—A switch that requires a key to operate. This prevents unauthorized personnel from gaining access to certain functions (e.g., the *Program menu*).

SL=Switch, Level Operated (Figure 14)—A switch connected to a float that causes the switch to open and close as the level changes.

Figure 13: Key Switch (SK)

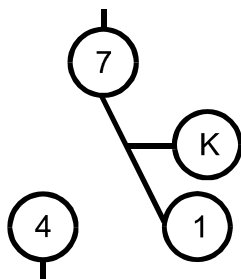
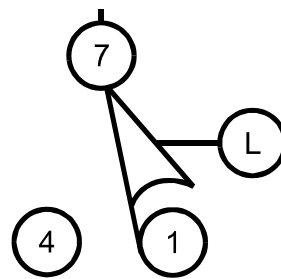


Figure 14: Level Switch (SL)



SM=Switch, Mechanically Operated (Figure 15)—A switch that is mechanically operated by a part of or the motion of the machine (e.g., door closed switch, tilt limit switches, etc.)

SP=Switch, Pressure Operated (Figure 16)—A switch in which a diaphragm presses against a switch actuator.

Figure 15: Mechanical Switch (SM)

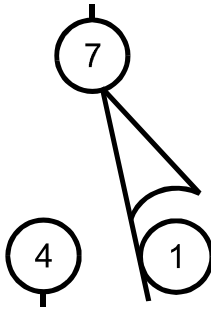
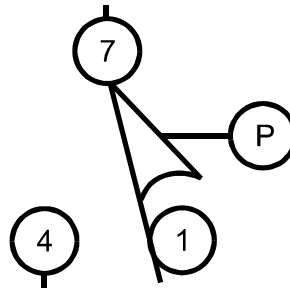


Figure 16: Pressure Switch (SP)



ST=Switch, Temperature Operated (Figure 17)—A switch that is actuated at a preset temperature (e.g., dryer safety probes) or has adjustable set points (e.g., Motometers or Combistats).

TB=Terminal Board (Figure 18)—A strip or block for attaching or terminating wires.

Figure 17: Temperature Switch (ST)

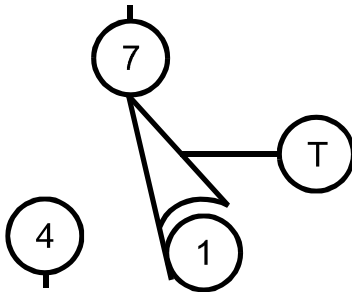
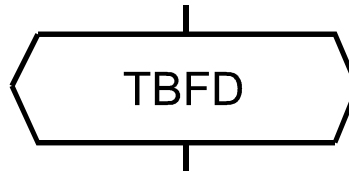
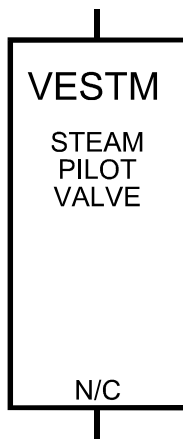


Figure 18: Terminal Board (TB)



VE=Valve, Electric Operated (Figure 19)—A valve operated by an electric coil to control the flow of fluid. The fluid can be air, water or hydraulic.

Figure 19: Electrically Operated Valve (VE)



ZF=Rectifier (Figure 20)—A solid state device that converts alternating current to direct current.

Figure 20: Bridge Rectifier (ZF)

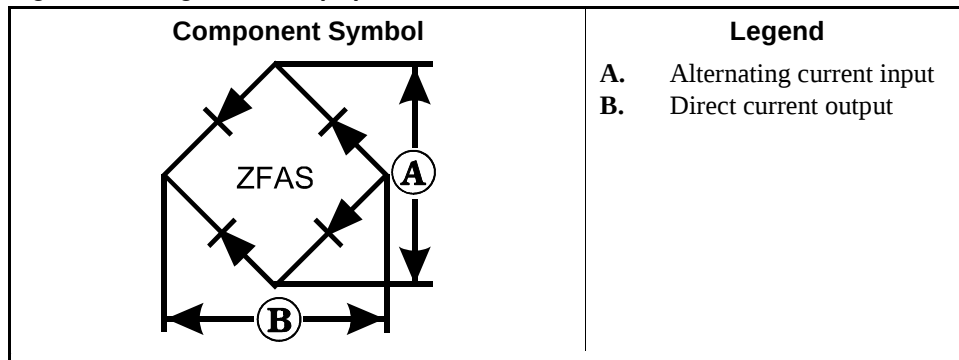
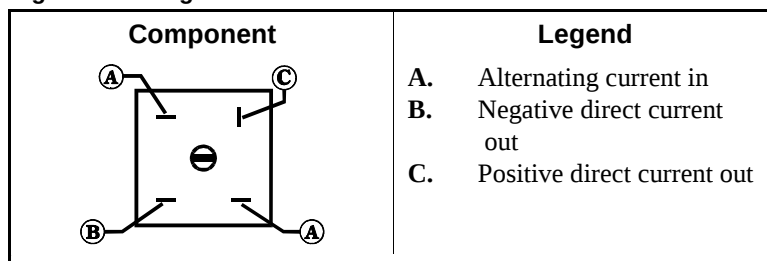


Figure 21: Bridge Rectifier



WC=Wiring Connector—A coupling device for joining two cables or connecting a cable to an electronic circuit or piece of equipment. Connectors are male or female, according to whether they plug into or receive the mating connector.

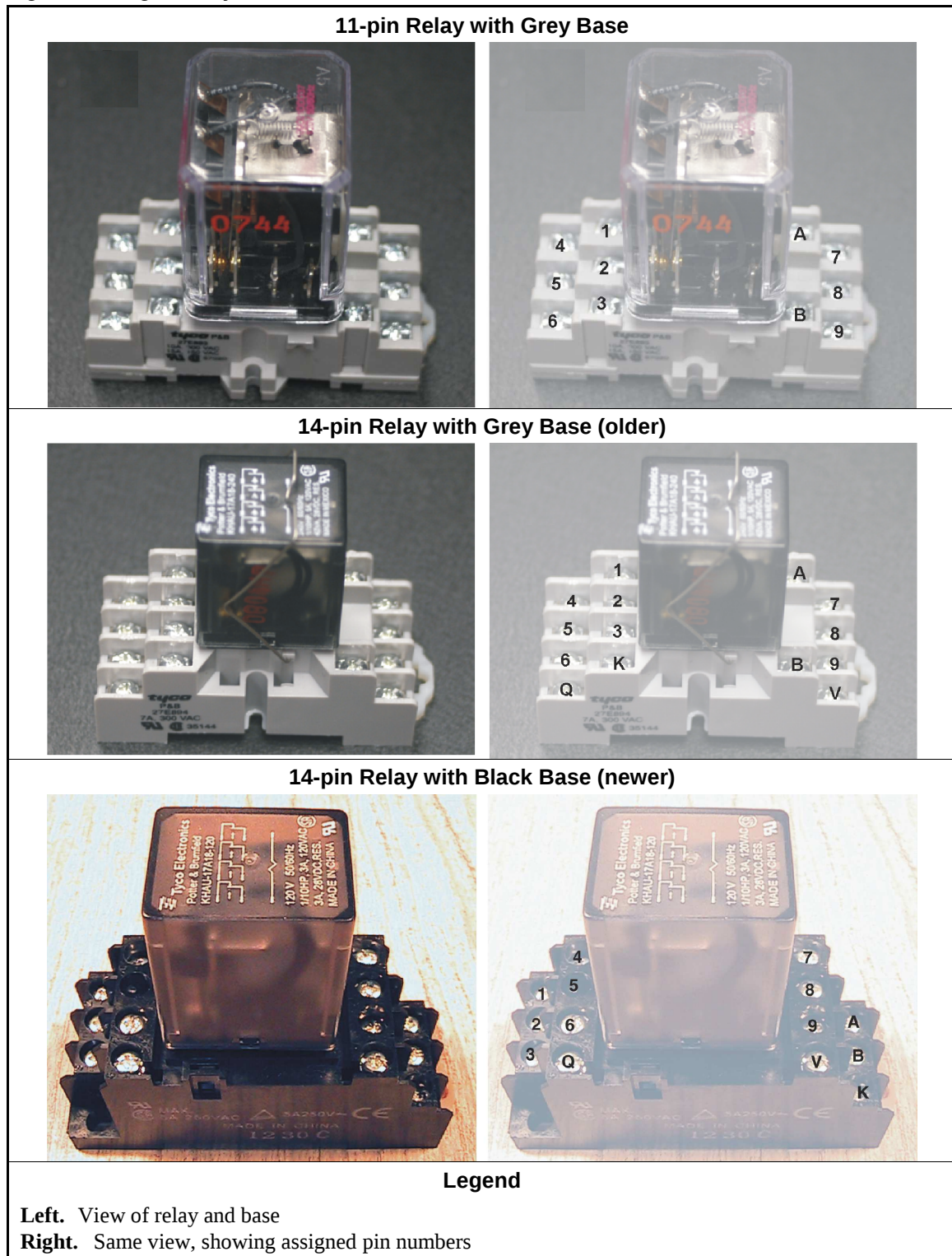
2. Component Terminal Numbering



CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- Ignore pin numbers imprinted on in-line connectors (e.g., Molex connectors) and relay bases.
- Use the pin identification illustrations herein to identify pins on these components.

Figure 22: Plug-in Relays



Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

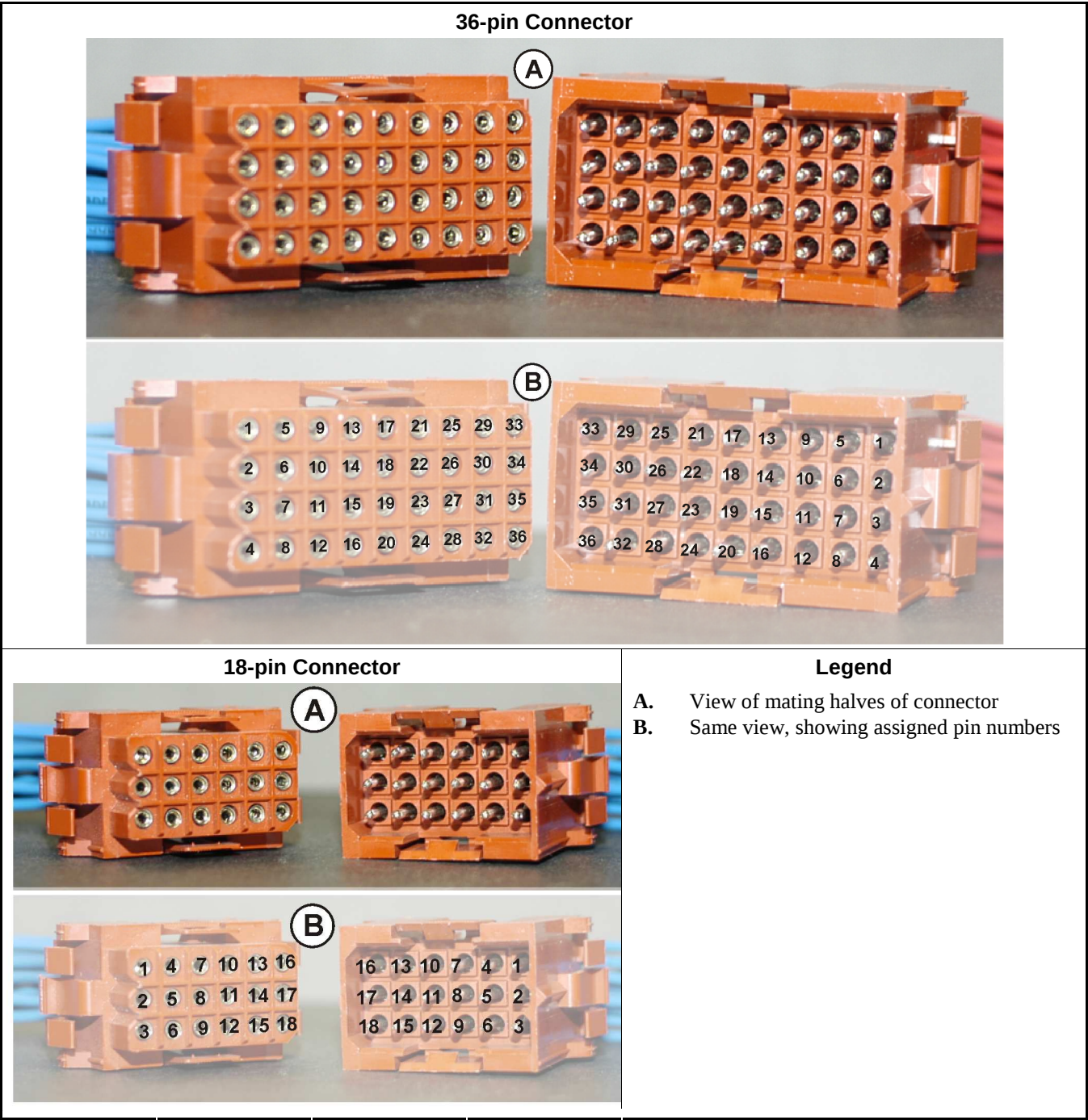


Figure 24: Molex Connector Pin Locations

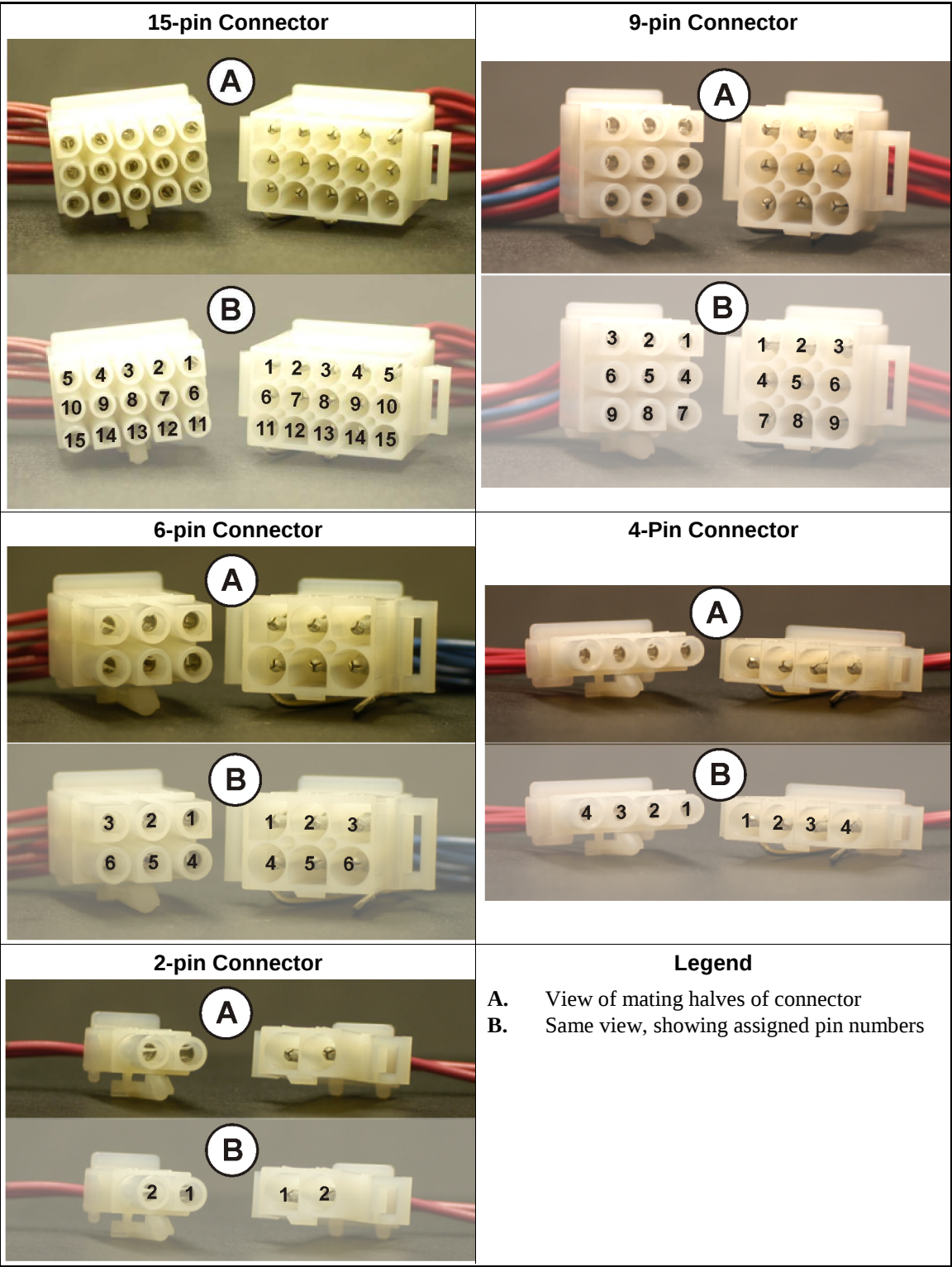


Figure 25: Pressure Switch

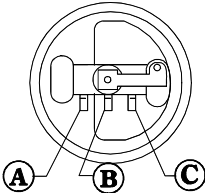
Component	Legend
	A. Contact 1—Normally open B. Contact 2—Normally closed C. Contact 3—Common

Figure 26: Toggle Switch

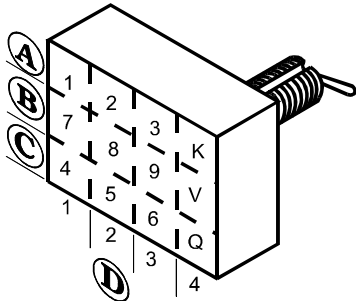
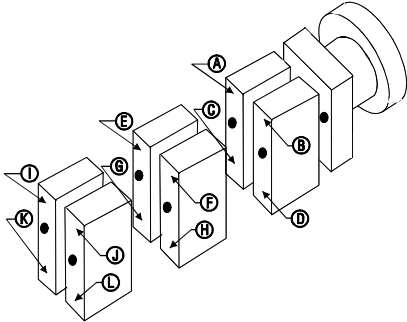
Component	Legend
	A. Normally closed contacts B. Common contacts C. Normally open contacts D. Pole

Figure 27: Switch with Replaceable Contact Blocks

Rotary or Push-button Switch Component	Legend
	A. Terminal 7 B. Terminal 8 C. Terminal 4 if normally open; terminal 1 if normally closed D. Terminal 5 if normally open; terminal 2 if normally closed E. Terminal V F. Terminal 9 G. Terminal Q if normally open; terminal K if normally closed H. Terminal 6 if normally open; terminal 3 if normally closed I. Terminal W J. Terminal X K. Terminal R if normally open; terminal L if normally closed L. Terminal S if normally open; terminal M if normally closed

3. Features of Milnor® Electrical Schematic Diagrams

Document BMP010012 (following this section) is a sample schematic, based on a schematic diagram for the Milnor® gas dryer. For the purposes of this exercise, the schematic is shown gray and explanations of the items on the schematic are shown black.

The item numbers below correspond to the circled item numbers shown on the drawing.

1. The first six characters of the drawing number (W6DRYG) indicate that this is a wiring diagram (W), identify the generation of controls (6), and identify the type of machine (DRYG=Gas Dryer). These characters appear in the drawing number of every schematic in the set.

The characters following the first six are unique to each drawing. The two characters identified as the page number are an abbreviation for the function performed by the depicted

circuitry (S+=three-wire circuit) and establish the order in which the schematic occurs in the manual (schematics are arranged in alpha-numeric order in the manual).

Whenever circuitry changes are significant enough to warrant publishing a new schematic drawing, the new drawing number will be the same as the old except for the major revision letter (A in the example).

2. Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.
3. Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor® factory to quickly relate circuit locations when discussing troubleshooting over the phone. Page and line numbers are referenced on the drawing as explained in items five and six below.
4. Relay contacts show the page and line number on which the relay coil may be found. This is the type of cross referencing most frequently used in troubleshooting.
5. Relay coils show the page and line number on which its associated contacts are located.
6. Relay contacts and relay coils show the physical location of the relay.
7. The designation MTA applies to electronic circuit board connections. Typically, a control system will contain several different types of circuit boards and one or more boards of each type. A numerical suffix identifies the board type and a numerical prefix identifies which one of several boards of a given type is being depicted. For example, the designation 1MTA5 identifies this as the first I/O board (8 output, 16 input board) in the control system. As shown on the drawing, a pin number follows the board number, separated by a dash. Thus, 1MTA5-9 is pin 9 on this board. The numerical designations for board types vary from one control system to another. Some of the board types commonly encountered on the Mark V and Mark VI washer-extractor control and their designations are as follows:
 - MTM1-MTM8 = Mother board
 - MTA1-MTA5 = 8 output, 16 input (8/16) boards
 - MTA11-MTA14 = 24 output boards
 - MTA30-MTA40 = processor boards
 - MTA41-MTA43 = digital to analog (D/A) boards
 - MTA51-MTA55 = analog to digital (A/D) boards
 - MTA81-MTA85 = balance A-D board

The complete listing of the boards utilized in a given control system can be found in the component list for that system.

8. Wire numbers, as described earlier in this section, are shown at appropriate locations on the schematic drawing.
9. Where diamond symbols appear at the end of a conductor, these are match points for continuing the schematic on another drawing. The page and line number that continues the circuit is printed adjacent to the diamond symbol. Where more than one match point appears on the referenced page, match diamonds containing corresponding letters.

— End of BIUUUK01 —

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4

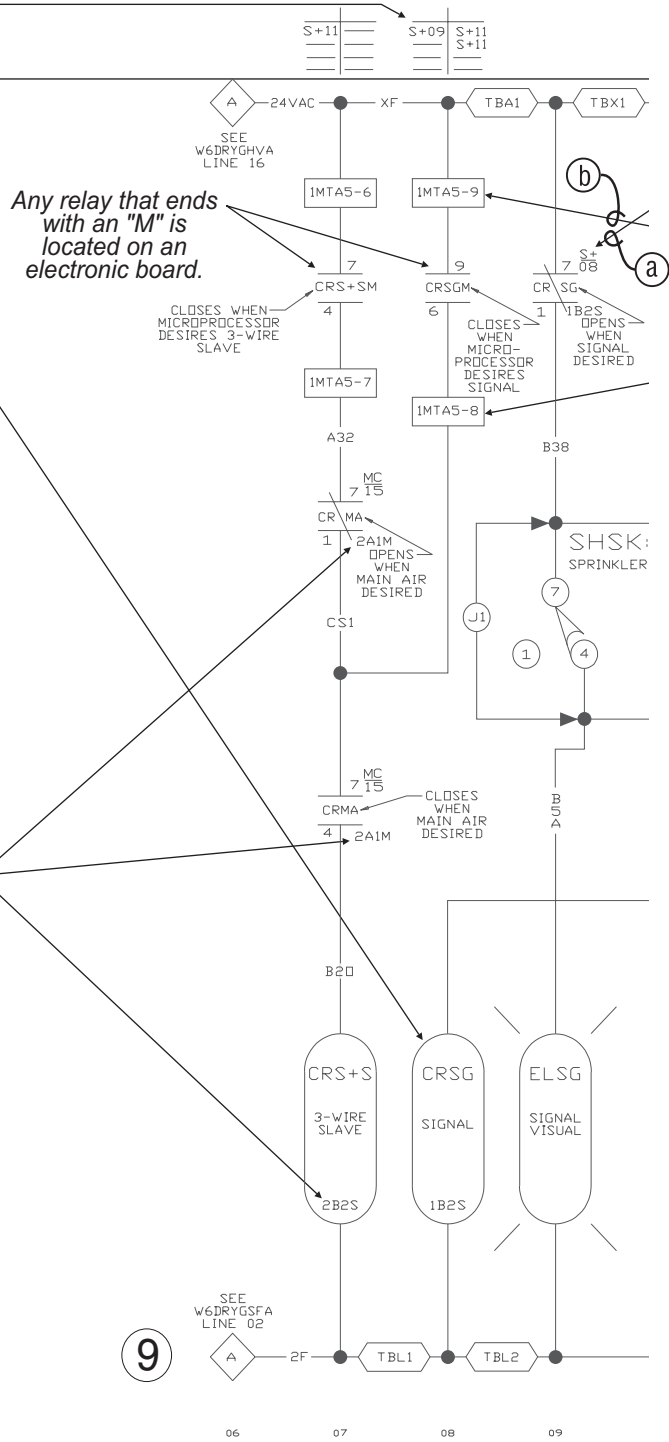
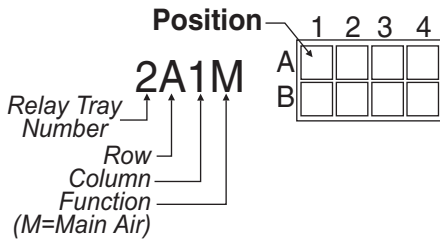
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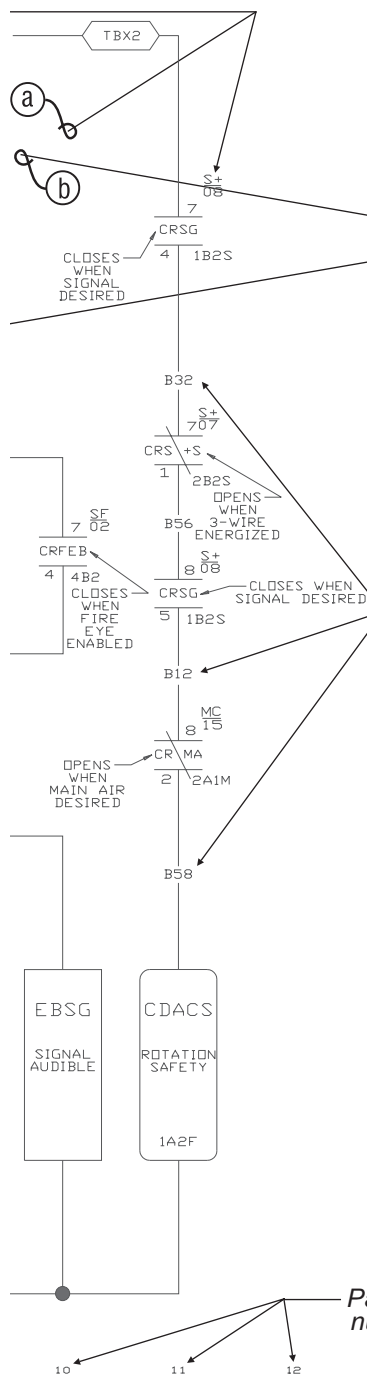
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7-1 contact	S+09	S+11	7-4 contact
8-2 contact	—	S+11	8-5 contact
9-3 contact	—	—	9-6 contact
V-Q contact	—	—	V-K contact

Contact not used —
Drawing and line where
contact is located

⑥





7 **1MTA5-9**

Mass termination assembly
Pin number
MTA designation on board
Board MTA group designation

An MTA is a connection on an electronic circuit board. The notes and the tag page locate the appropriate board.

8 **Wire identification marking.**
This designation is stamped on the wire every 6 inches and is used with the signal routing table.

Major revision (letter)

1 Page number (S+)

Machine type (Gas fired dryer)

6th generation of controls

W = Wiring

Class of control system

Title of this circuit
Voltage of this circuit

NOTES:

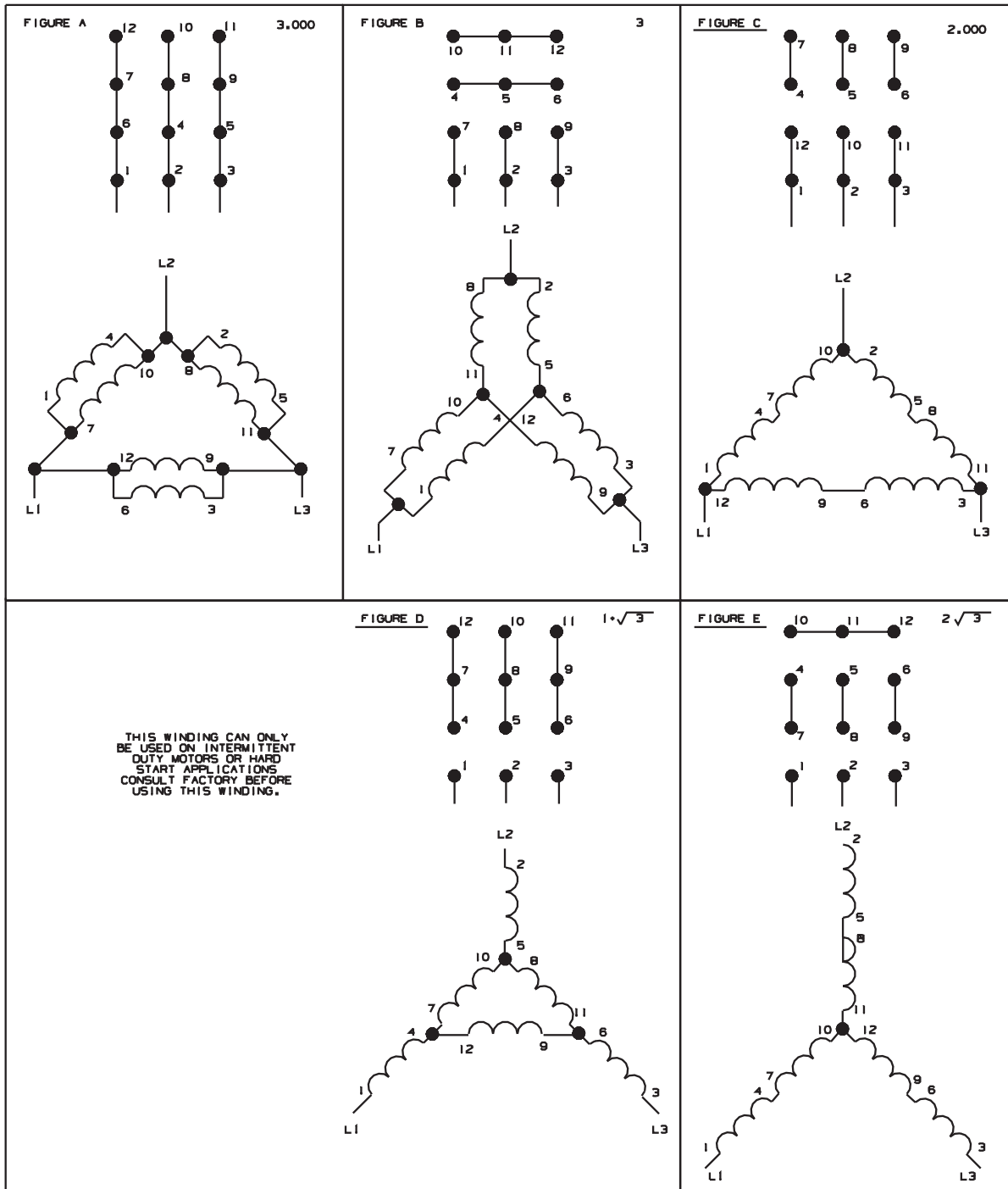
1. TBL IS LOCATED IN LEFT CONTROL BOX.
2. TBA IS LOCATED IN RIGHT CONTROL BOX.
3. TBX IS LOCATED IN LEFT CONTROL BOX.
4. 1MTA5 IS LOCATED ON BIDI (8 OUTPUT-16 INPUT BOARD).
5. REMOVE (J1) IF DRYER HAS VALVE SET SHUT OPTION.

W6DRYGS+A
93226D
MICRO 6 SYSTEMS
SCHEMATIC: 3-WIRE CIRCUIT
24V1P50HZ/24V1P60HZ
PELLERIN MILNOR CORPORATION

Page line numbers

3

FIGURE	ELECTRICAL VALUES	SUFFIXES							
		B		H		M		T	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1,000	208	230			200	220	220	240
B	$\sqrt{3}$			208	240	346	380	380	
C	2,000	416	460	220	240	400	440	440	480
D	$1 + \sqrt{3}$						600		
E	$2\sqrt{3}$			380					



06

07

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16

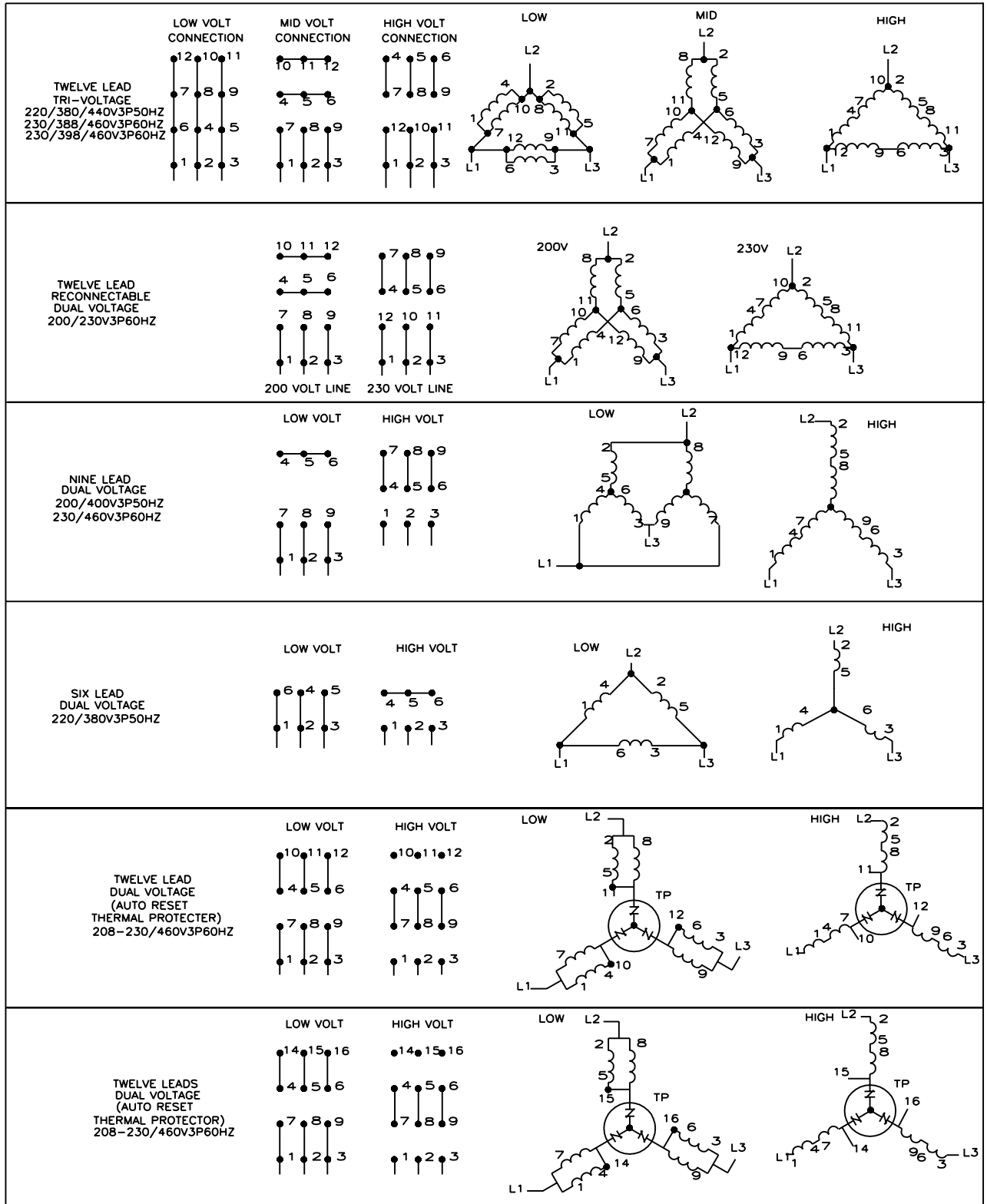
17

BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
(ONLY FOR MOTOR SUFFIXES LISTED)

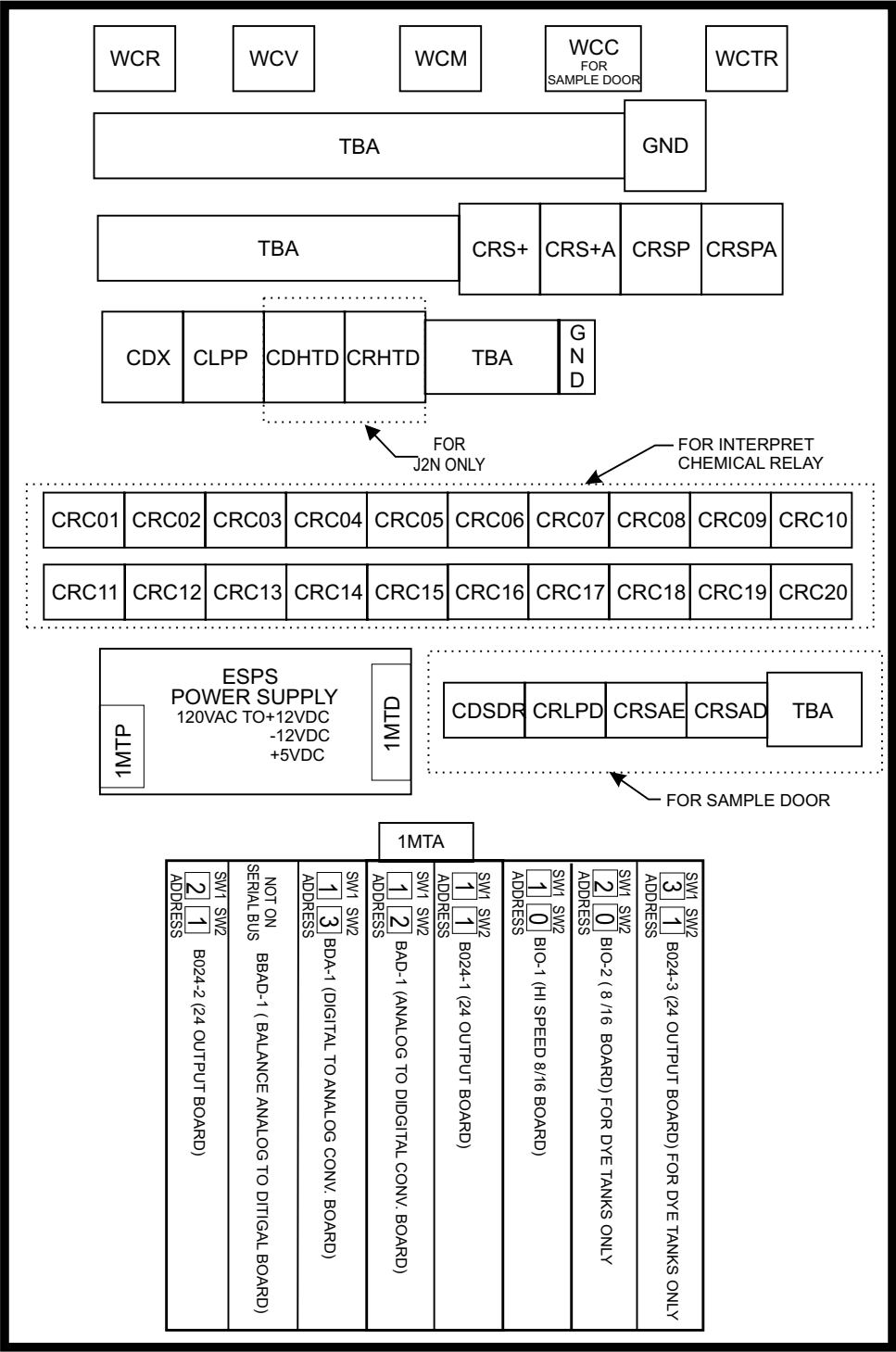
PELLERIN MILNOR CORPORATION



W80008

THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
PELLERIN MILNOR CORPORATION

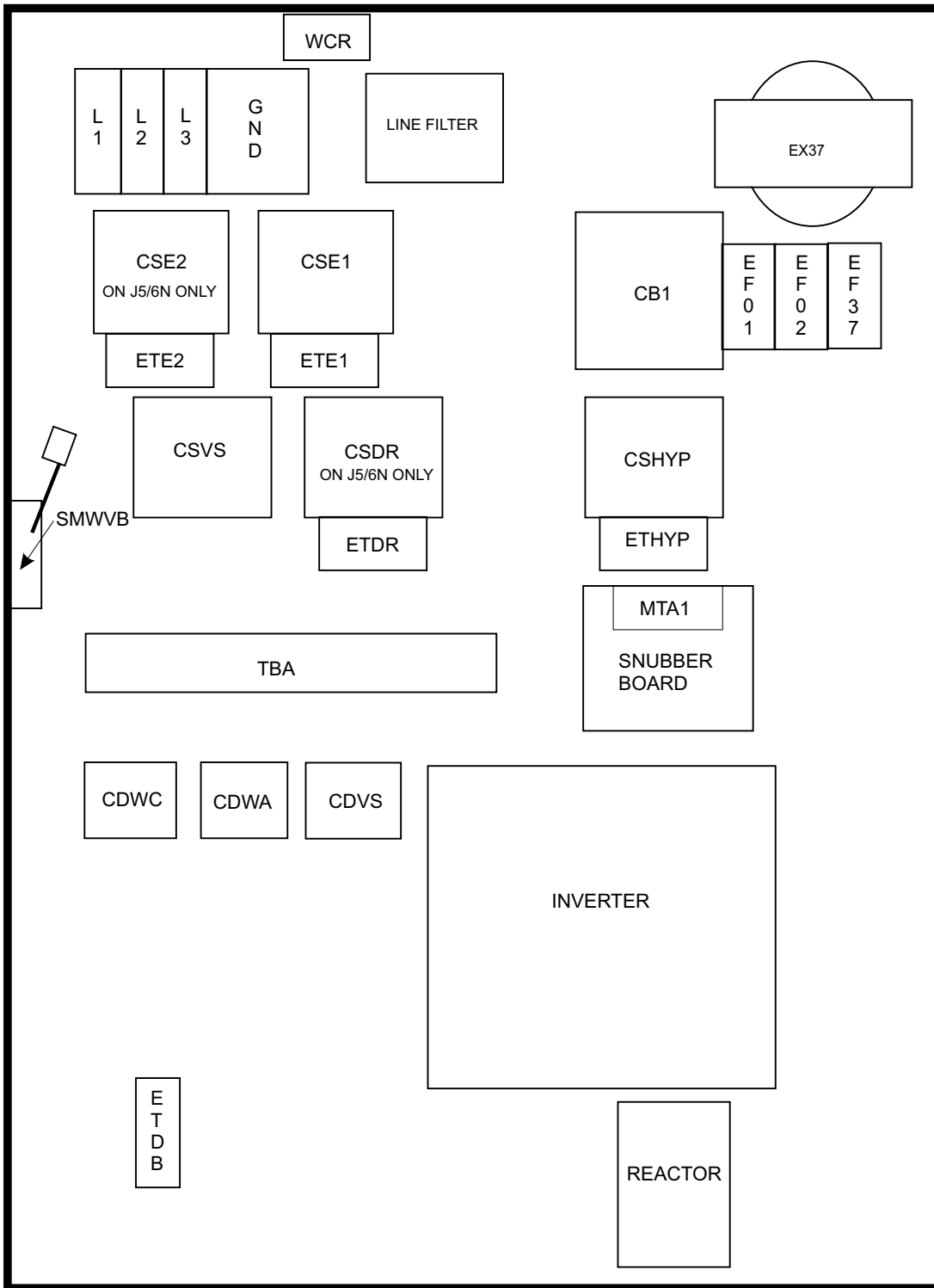
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MICRO 6 SYSTEMS MARK V CONTROLS
J-SERIES TEXTILE MACHINE
LOW VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

B2TAG97046
99217G



MICRO 6 SYSTEMS MARK V CONTROLS
J-SERIES TEXTILE MACHINE
HIGH VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

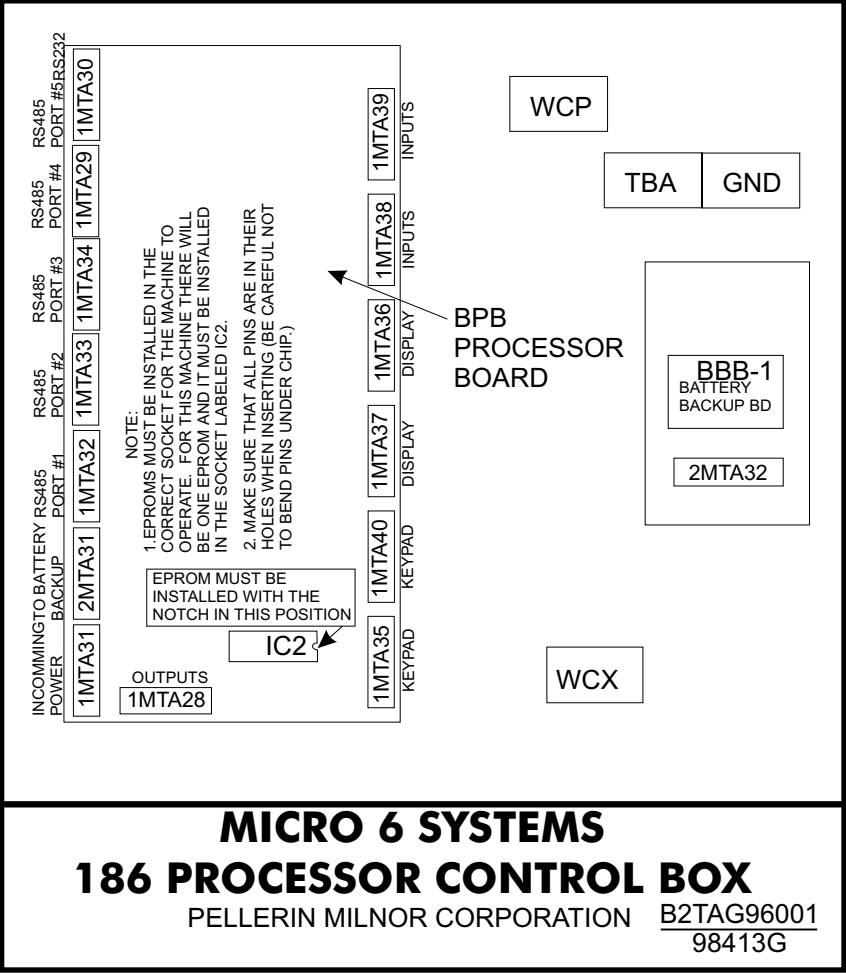
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2008385G

W6T5NSTG1
MICRO 6 SYSTEMS
MARK V CONTROLS
CONTROL BOX LAYOUTS
PELLERIN MILNOR CORPORATION

B024-1	B024-2(OPTIONAL)	B024-3(OPTIONAL)
OUTPUTS 0 HIGH EXTRACT 1 BALANCE 2 WASH CLUTCH 3 CW WASH 4 CCW WASH 5 STEAM VALVE 6 SIGNAL 7 THREE WIRE 8 BRAKE RELEASE 9 WATER VALVE #1 10 WATER VALVE #2 11 WATER VALVE #3 12 SEWER DRAIN 13 REUSE DRAIN 14 LOW EXTRACT 15 WASH POSITION 16 NOT USED 17 NOT USED 18 NOT USED 19 NOT USED 20 NOT USED 21 NOT USED 22 NOT USED 23 NOT USED	OUTPUTS 0 WATER SAFETY 1 CHEM MANIFOLD FLUSH 2 MANUAL CHEM INJECT 3 ALLOW PRESSURE 4 DRY SUP. MAN. FLUSH 5 FILL DYE TANKS 6 DIRECT COOLDOWN 7 MACHINE MOVING 8 DIRECT STEAM 9 CHEM INJECT 10 CHEM 6 11 CHEM 7 12 CHEM 8 13 FLUSH 6 14 FLUSH 7 15 FLUSH 8 16 NOT USED 17 NOT USED 18 NOT USED 19 NOT USED 20 NOT USED 21 NOT USED 22 NOT USED 23 NOT USED	OUTPUTS 0 CHEM 12 1 CHEM 13 2 FLUSH 12 3 FLUSH 13 4 AMP SAVER 5 I AM INJECTING 6 CHEM 14 7 CHEM 15 8 CHEM 16 9 CHEM 17 10 CHEM 18 11 CHEM 19 12 CHEM 20 13 NOT USED 14 NOT USED 15 NOT USED 16 NOT USED 17 NOT USED 18 NOT USED 19 NOT USED 20 NOT USED 21 NOT USED 22 NOT USED 23 NOT USED
BIO-1 (HIGH SPEED)	BIO-2	
INPUTS 0 MANUAL CHEM DESIRED 1 1 PRESSURE DESIRED 2 EXTRACT PROSITION 3 WASH POSITION 4 LOW LEVEL 5 STOP WASHING 6 DON'T ALLOW CHEMS 7 SPEED SWITCH 8 PRESSURE PORTS OPEN 9 FRONT NOT DOWN 10 TILT LEVEL 11 BRAKE IS OFF 12 MOTORS ALLOWED 13 SAMPLE DESIRED 14 MANUAL DIRECT COOL 15 MANUAL COOLDOWN OUTPUTS 0 DRAIN MOTOR 1 COOLDOWN 2 EXTRACT POSITION 3 CHEM 4 4 CHEM 1 5 CHEM 3 6 CHEM 2 7 CHEM 5	INPUTS 0 INJECT PRESSURE OK 1 MANUAL CHEM DESIRED 2 2 FILL TANKS 3 PRESSURE FAULT 4 TEMPERATURE OK 5 AMPS OK 6 BRAKE PADS WORN 7 NOT USED 8 E2 OVERLOAD 9 E1 OVERLOAD 10 DRAIN OVERLOAD 11 WASH OVERLOAD 12 VARIABLE SPEED OL 13 REAR UP 14 DOOR OPEN 15 NOT USED OUTPUTS 0 FLUSH 11 1 RECIRCULATE 2 NOT USED 3 FLUSH 9 4 CHEM 9 5 CHEM 11 6 CHEM 10 7 FLUSH 10	

MICRO 6 SYSTEMS MARK V CONTROLS
J-SERIES TEXTILE MACHINE
CONTROL BOARDS INPUTS/OUTPUTS
PELLERIN MILNOR CORPORATION

B2TAG97049
97186G



W6T5NSTG2
98471B

W6T5NSTG2
MICRO 6 SYSTEMS
MARK V CONTROLS
CONTROL BOX LAYOUTS
PELLERIN MILNOR CORPORATION

W6T5NSTG2
98471B

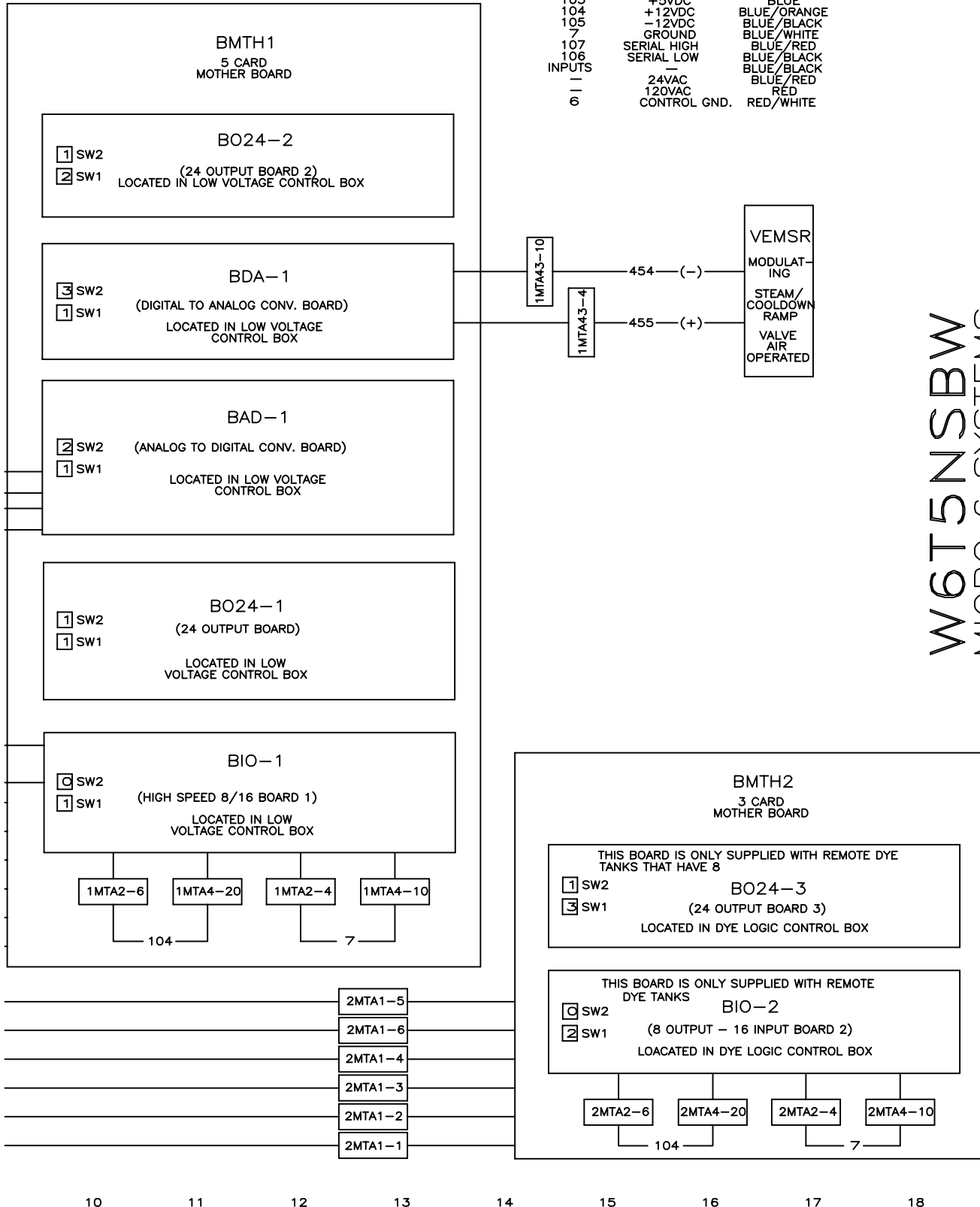
Section

1

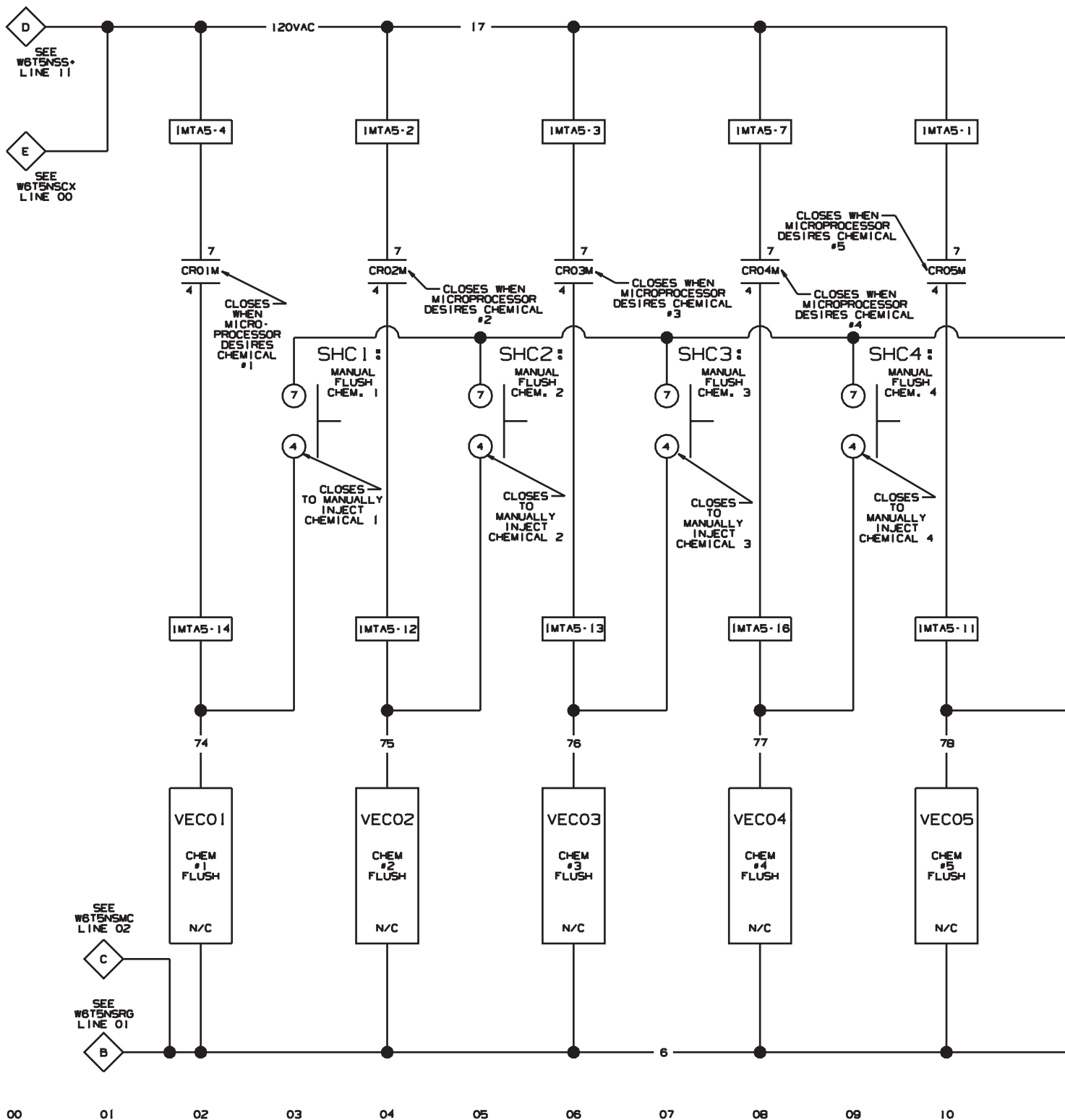
Diagrams for Standard Manual Loading

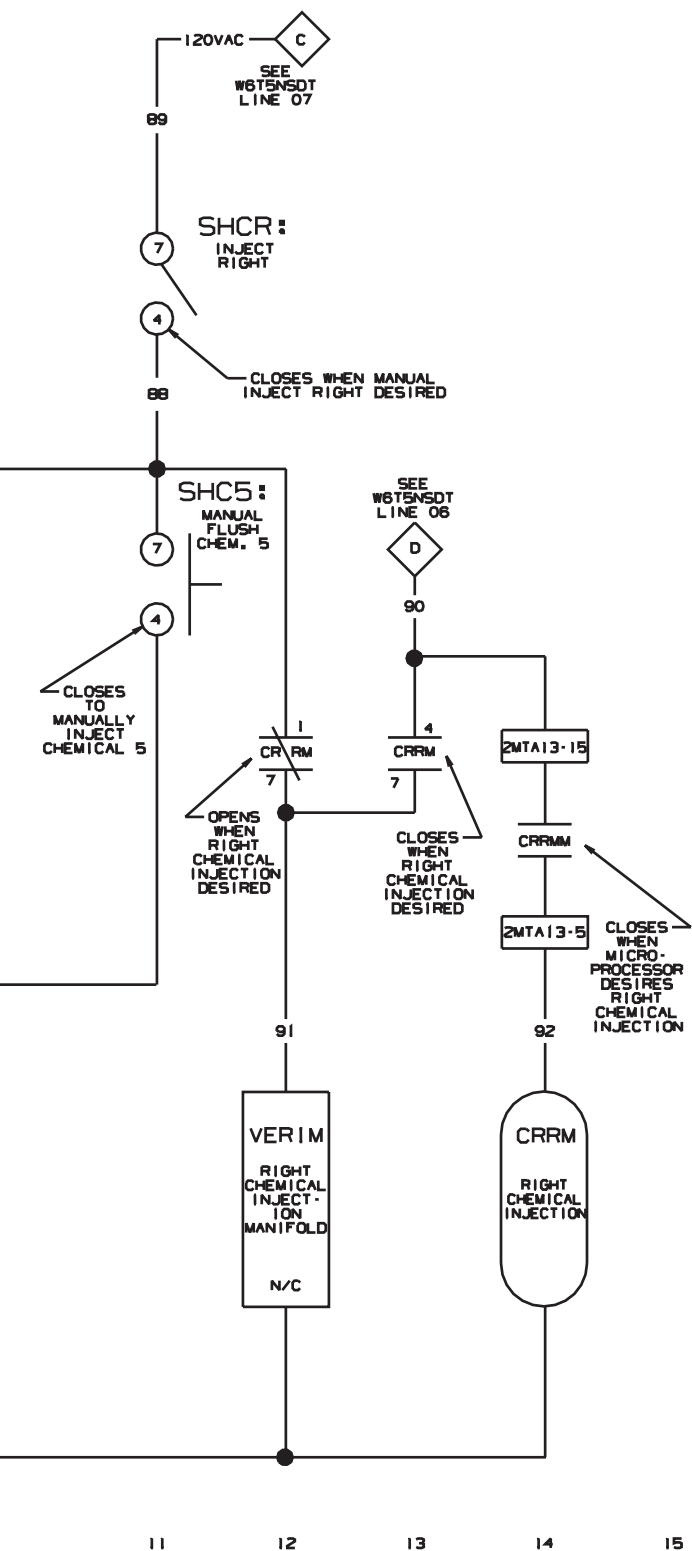
NOTES:

WIRE NO.	VOLTAGE	WIRE COLOR
103	+5VDC	BLUE
104	+12VDC	BLUE/ORANGE
105	-12VDC	BLUE/BLACK
7	GROUND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
INPUTS	—	BLUE/BLACK
—	24VAC	BLUE/RED
—	120VAC	RED
6	CONTROL GND.	RED/WHITE

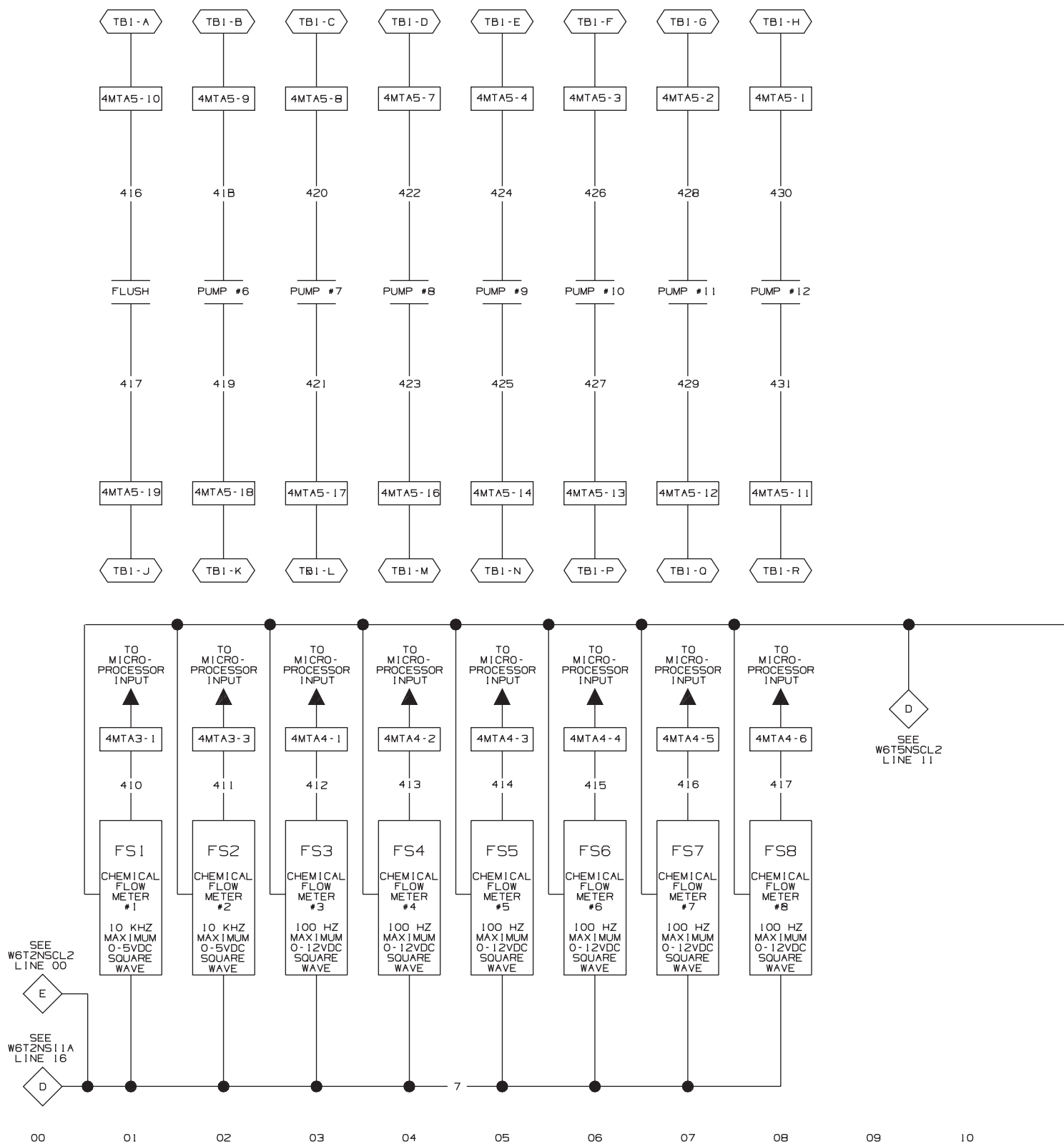


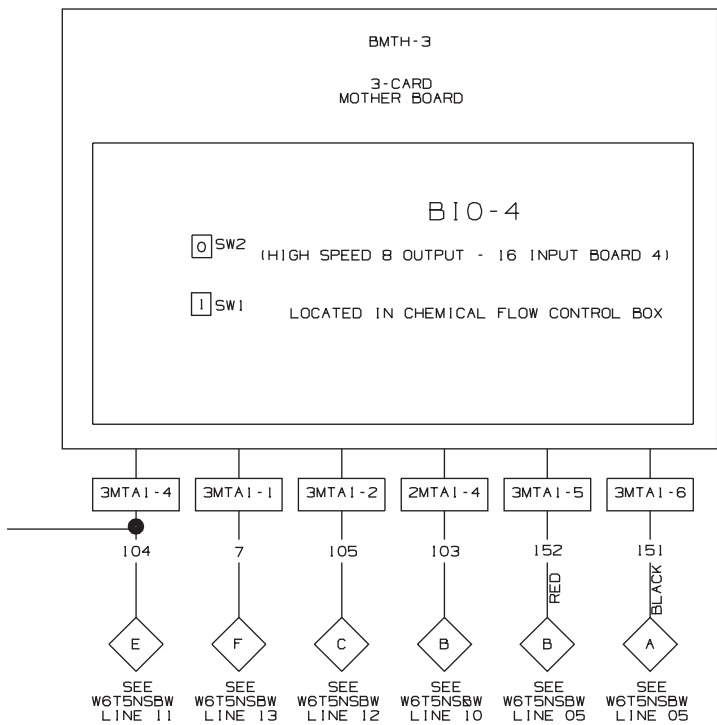
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MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: 186PROCESSOR BD TO BD WIRING
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



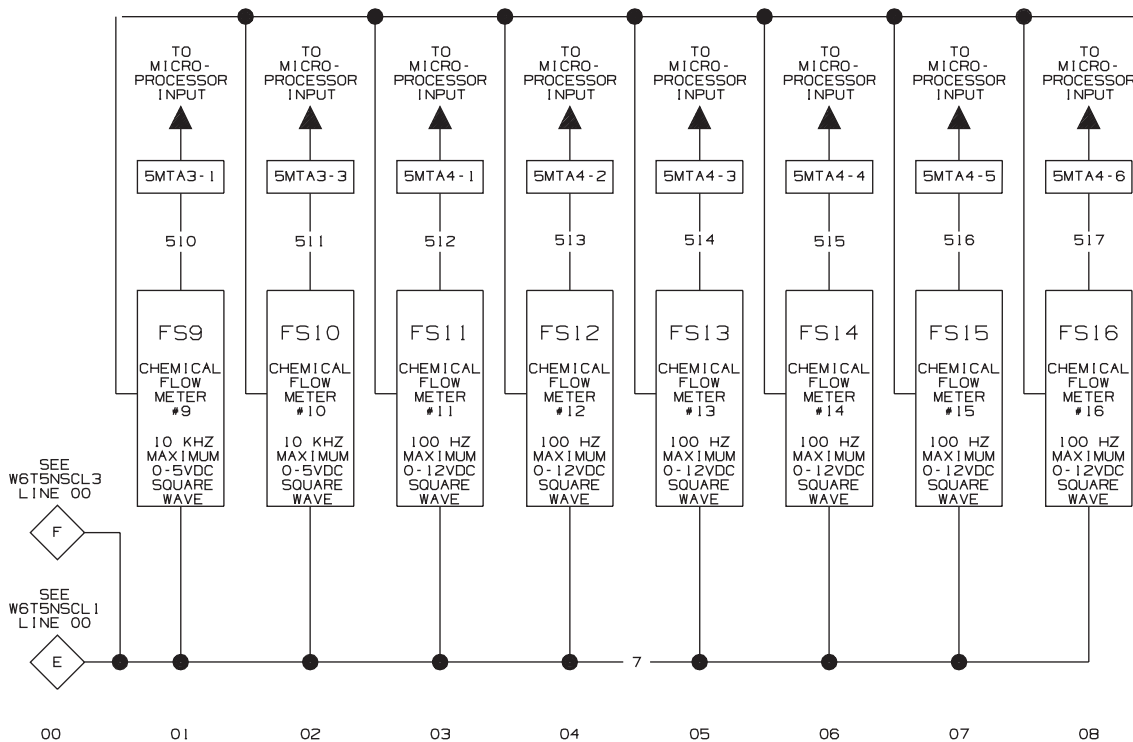
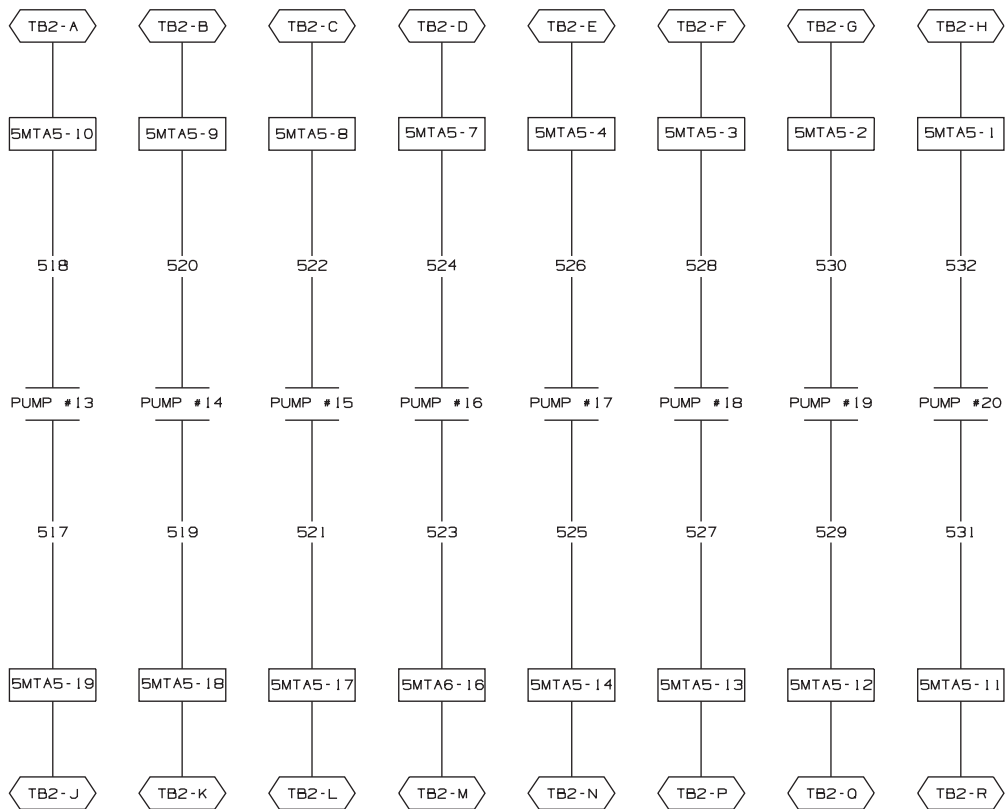


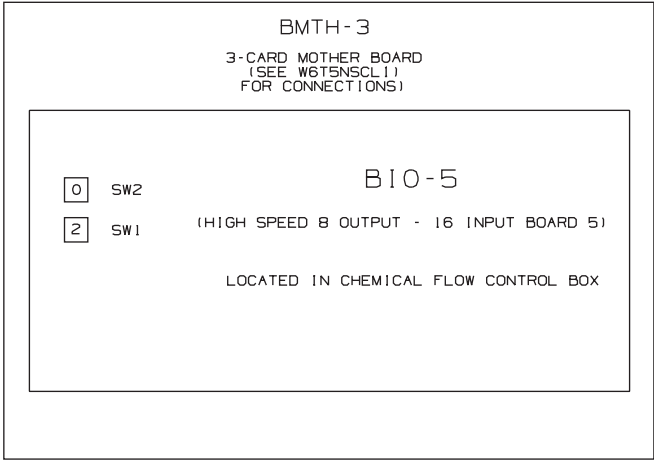
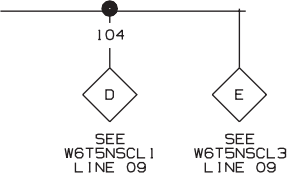
W6T5NSCF
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: FLUSHING SUPPLIES
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



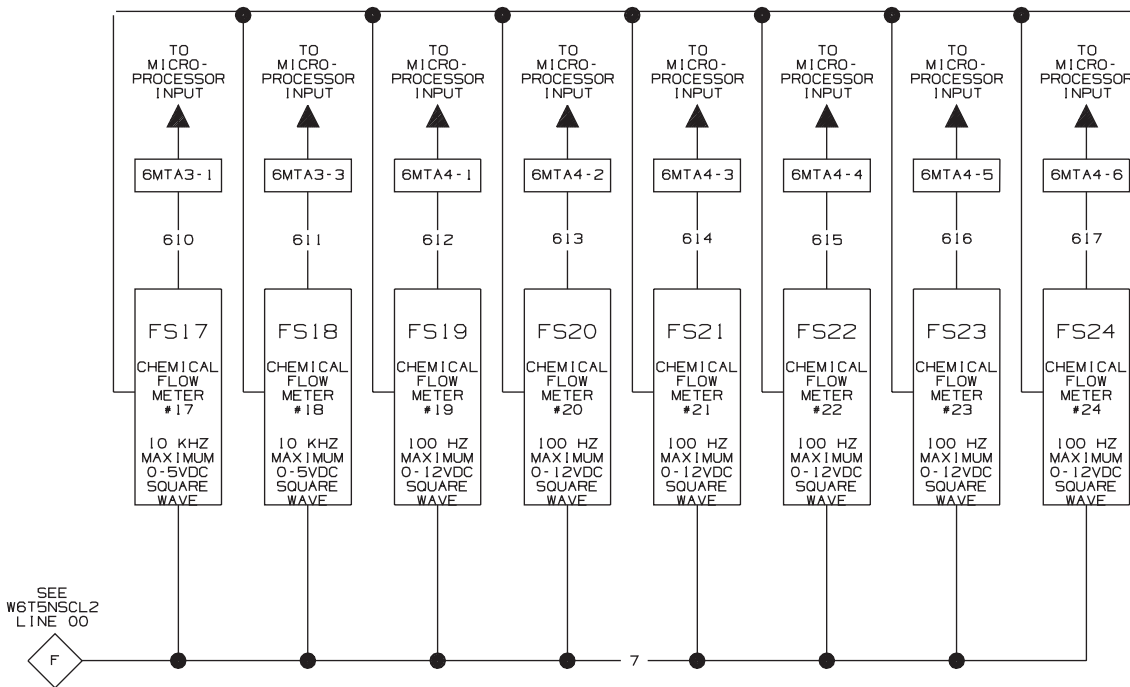
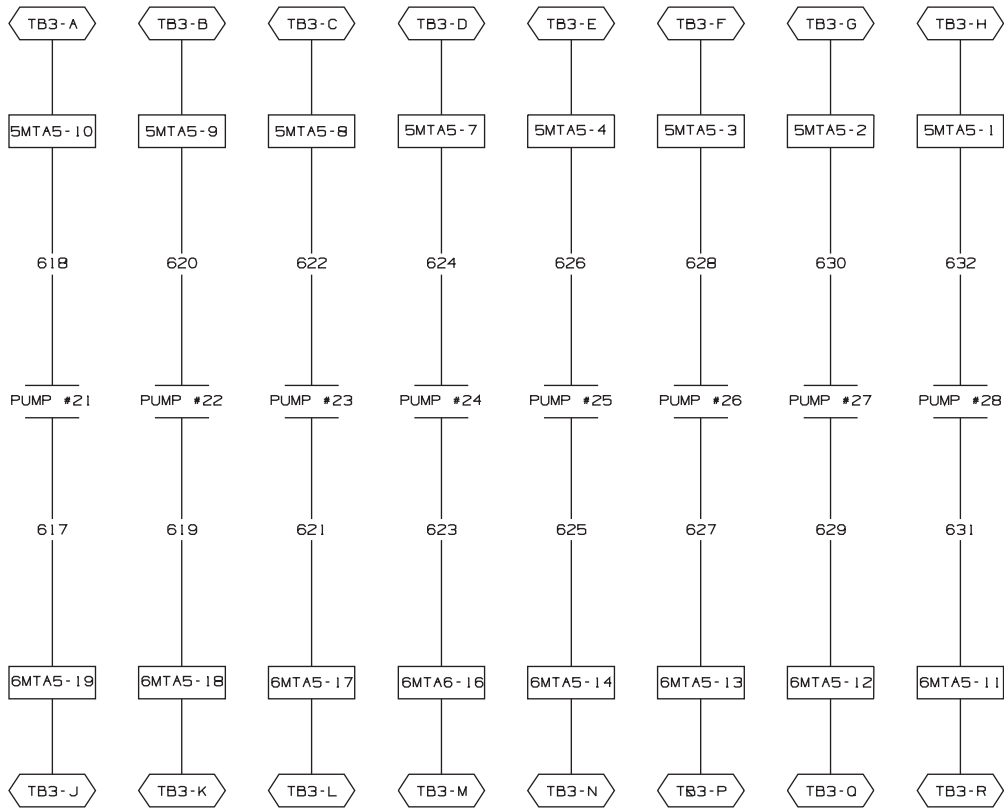


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MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: CHEMICAL FLOW I/O BOARD #4
PELLERIN MILNOR CORPORATION



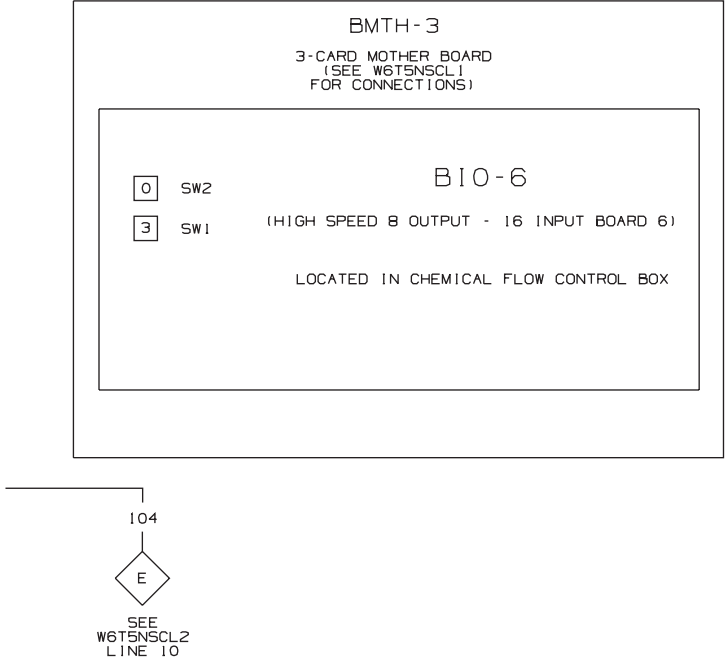


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MICRO 6 SYSTEMS
MARK V
SCHEMATIC: CHEMICAL FLOW I/O BOARD #5
PELLERIN MILNOR CORPORATION

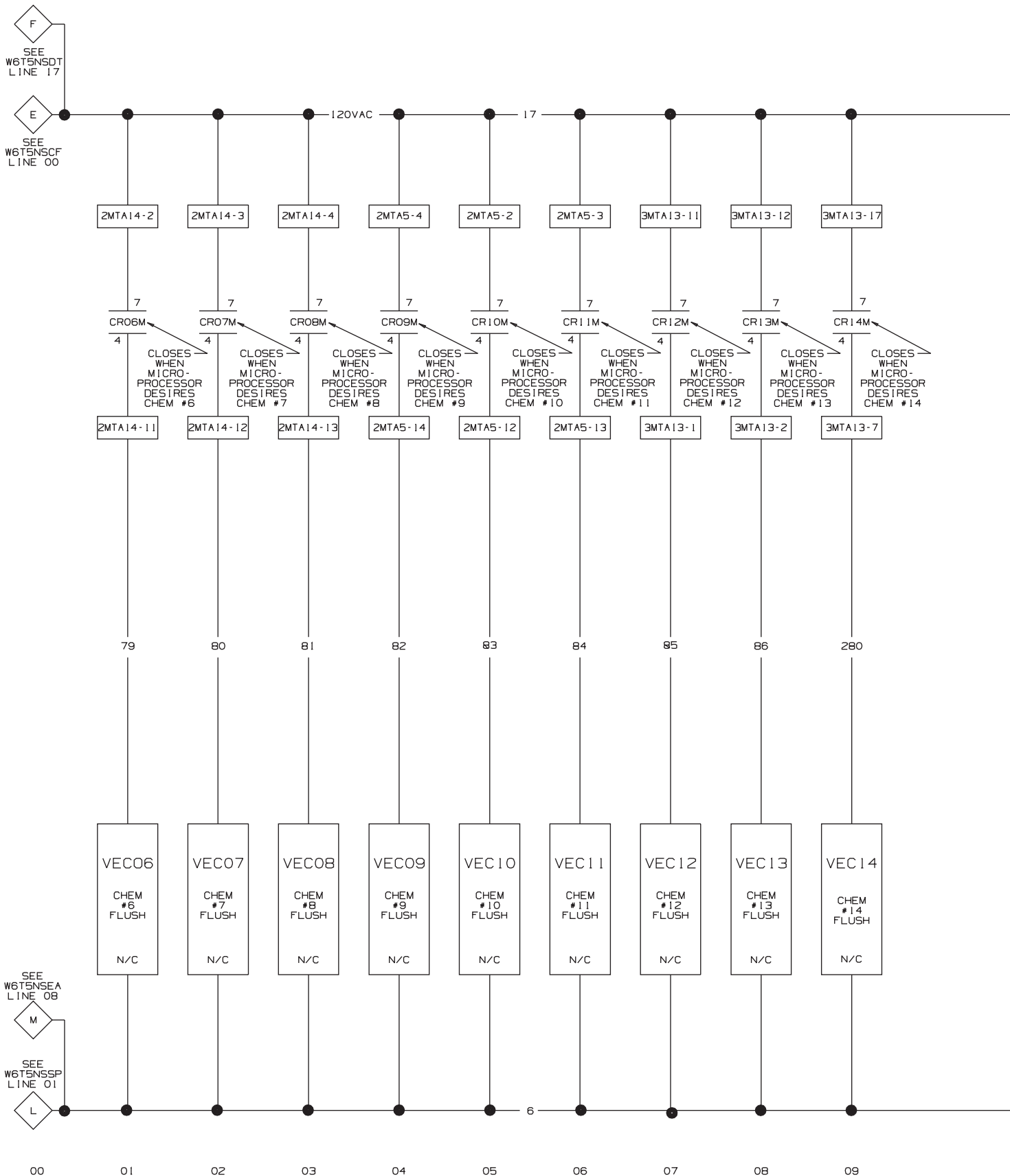


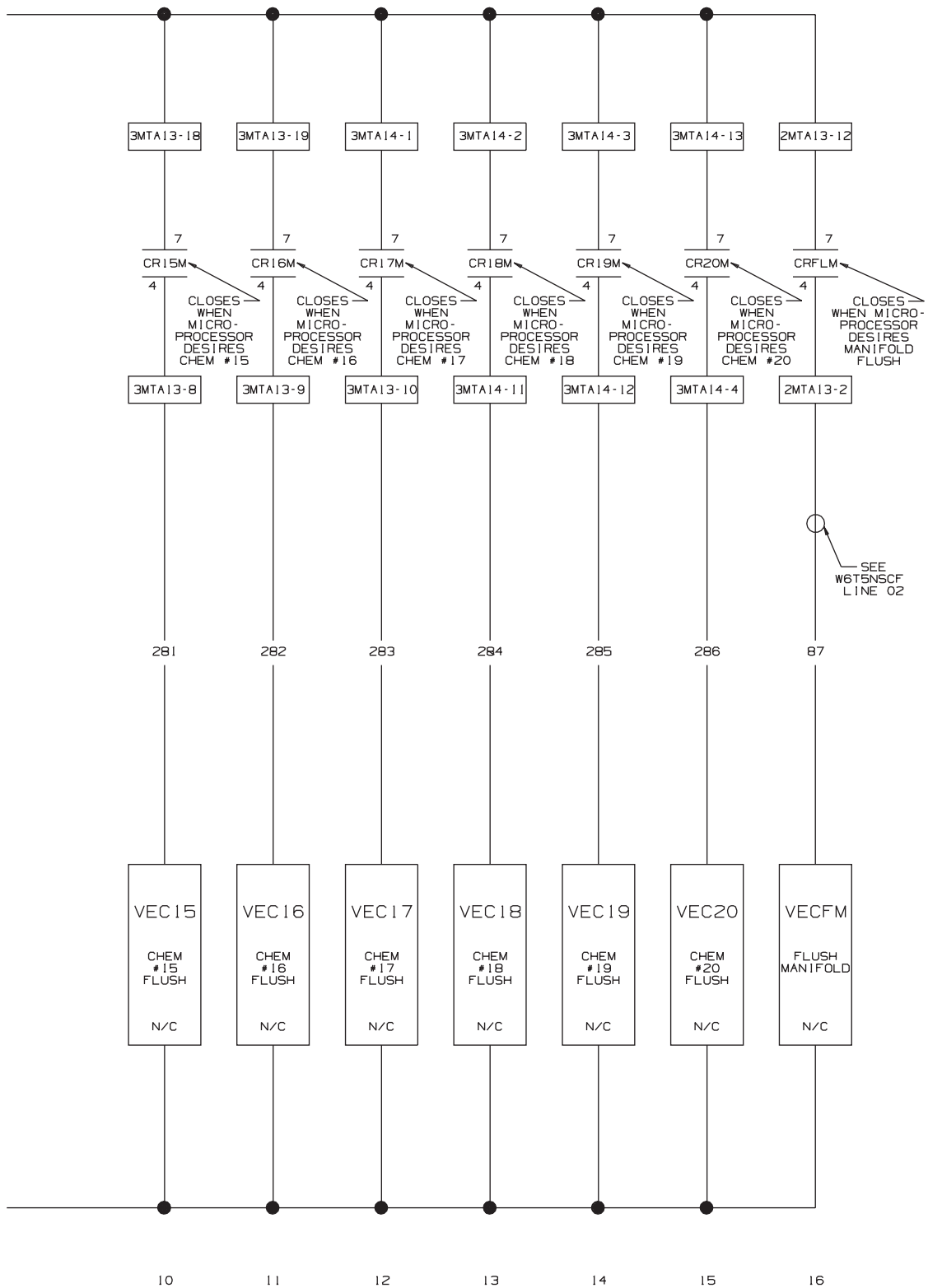
SEE
W6T5NSCL2
LINE 00

00 01 02 03 04 05 06 07 08 09



W6T5NSCL3
MICRO 6 SYSTEMS
MARK V
SCHEMATIC: CHEMICAL FLOW I/O BOARD #6
PELLERIN MILNOR CORPORATION





W6T5NSCX

MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: CENTRAL LIQUID SUPPLY
FLUSH 6 THRU 15

PELLERIN MILNOR CORPORATION

00

01

02

03

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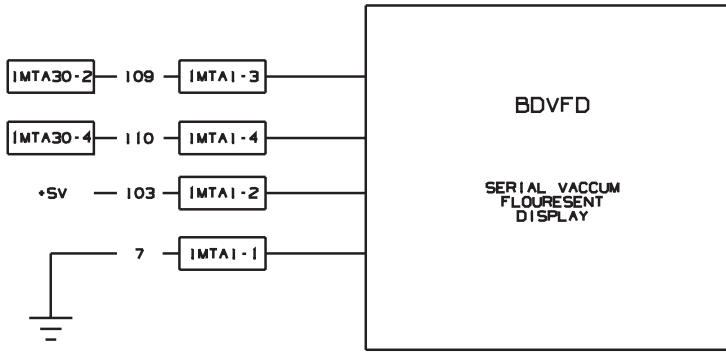
05

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NOTES

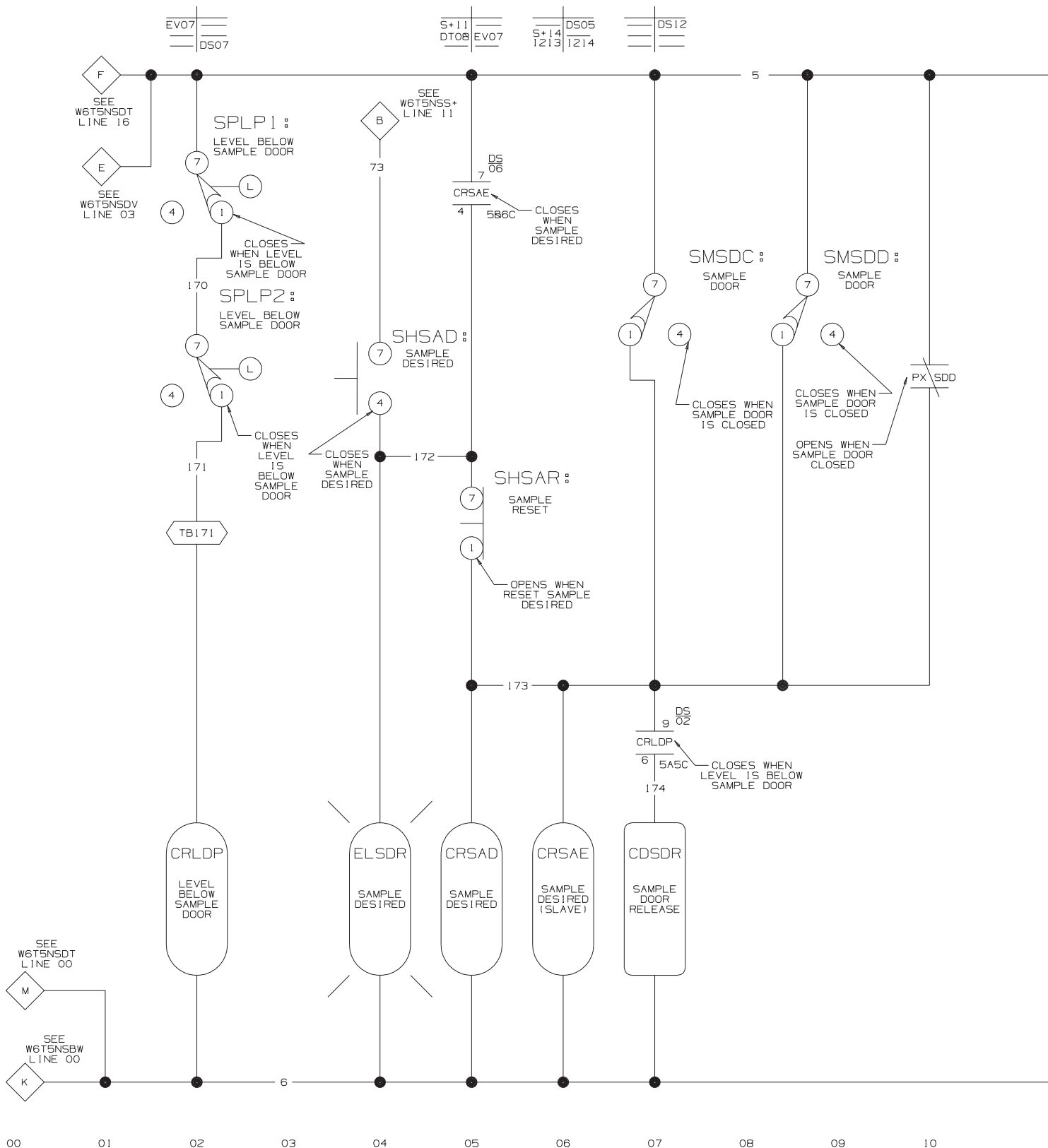
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2. IMTA1 IS LOCATED ON DISPLAY BOARD.

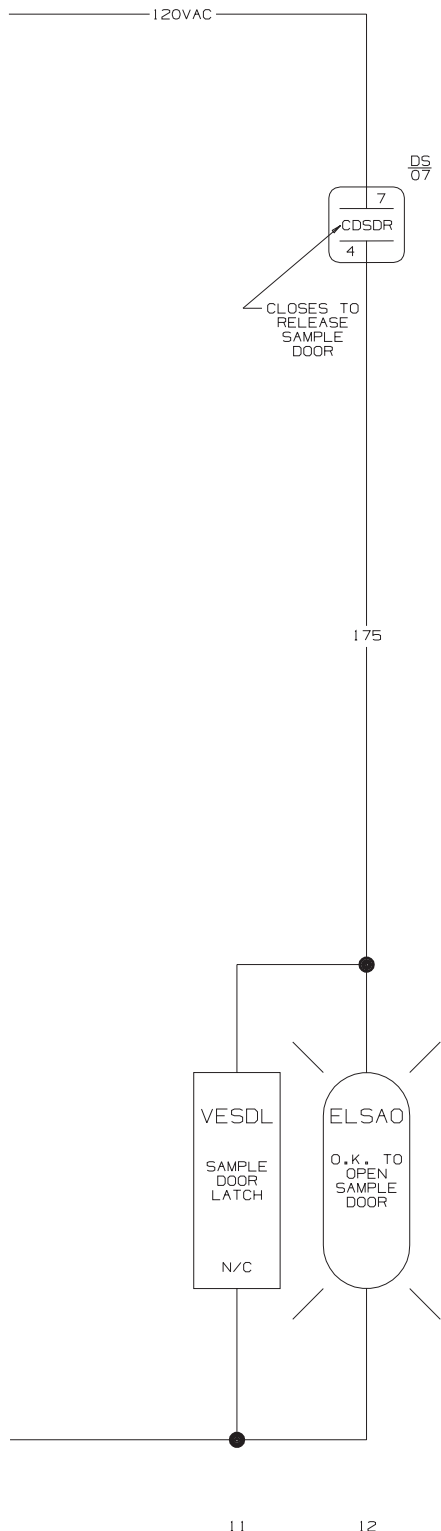
W6T5NSDA

MICRO 6 SYSTEMS MARK V CONTROLS

SCHEMATIC: 186 PROCESSOR DISPLAY

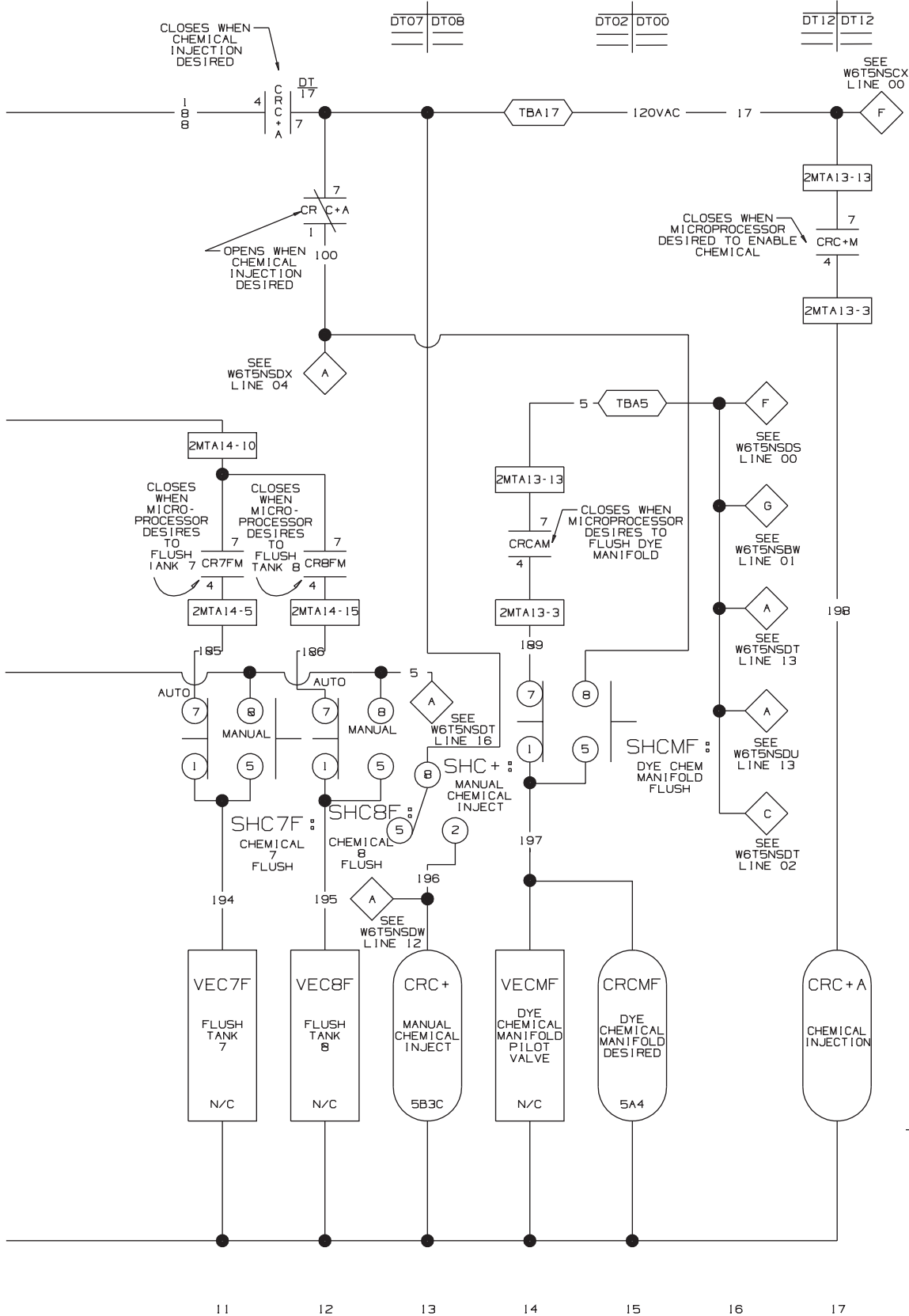
PELLERIN MILNOR CORPORATION





W6T5NSDS
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: DOOR SAMPLE
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

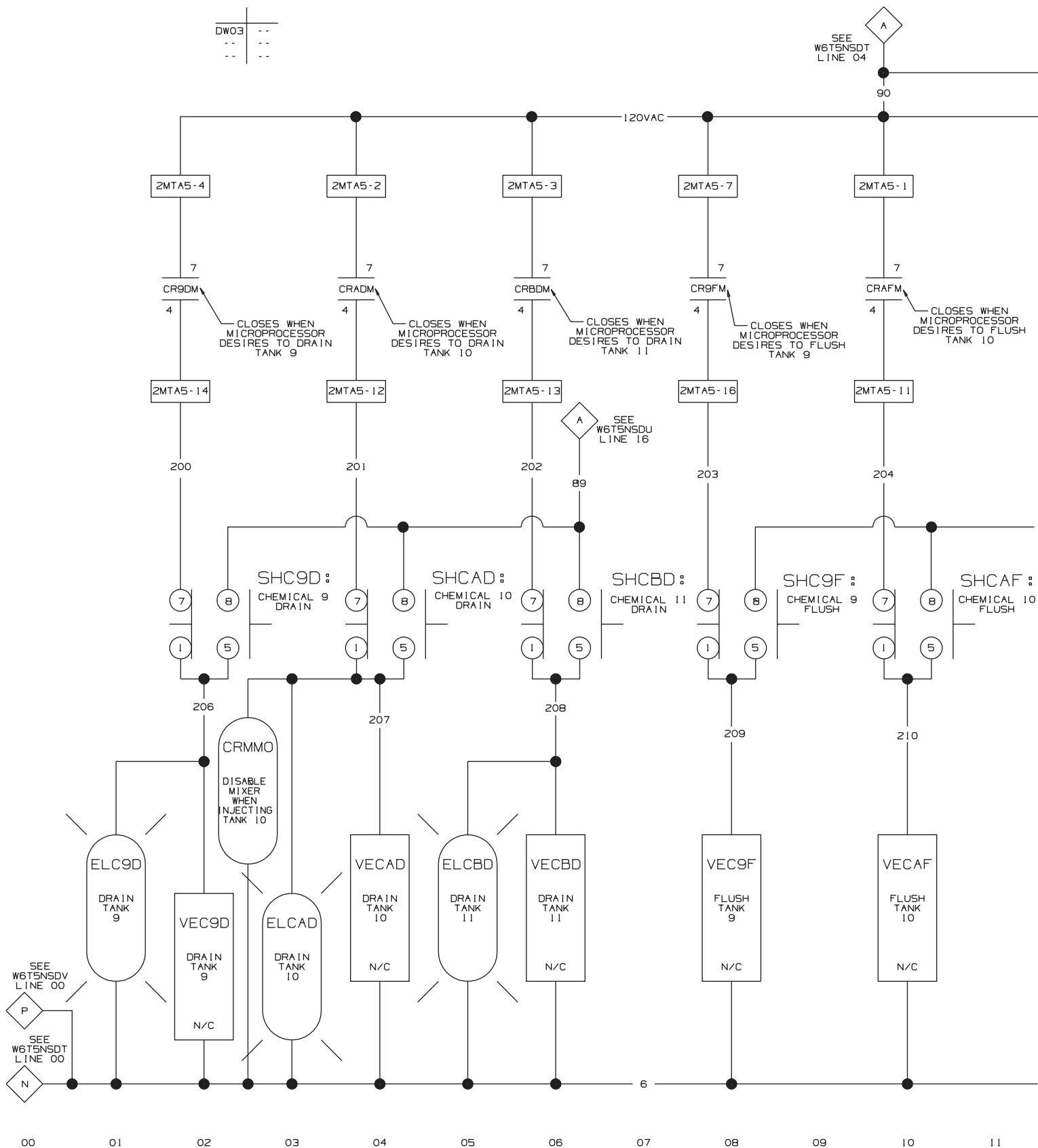


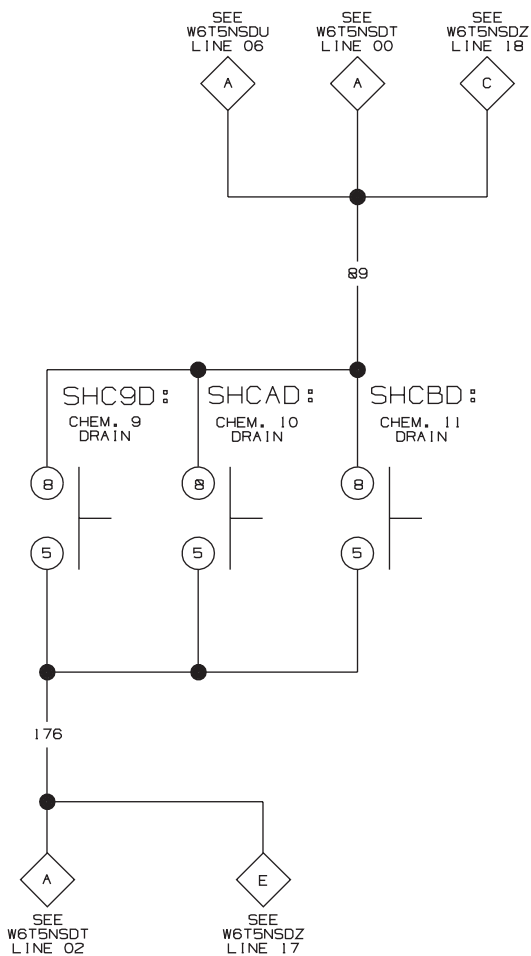
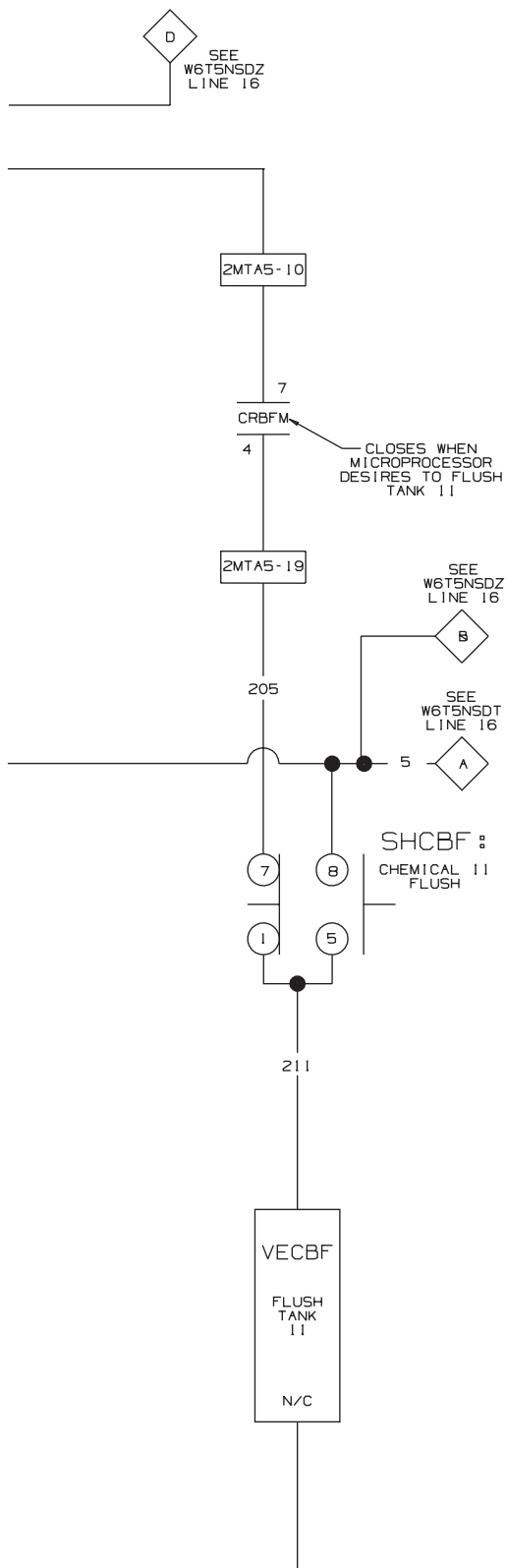


W6T5NSDT
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: DYE TANKS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. 2MTA13, 2MTA14 ARE LOCATED ON B024-1124 OUTPUT BOARD).





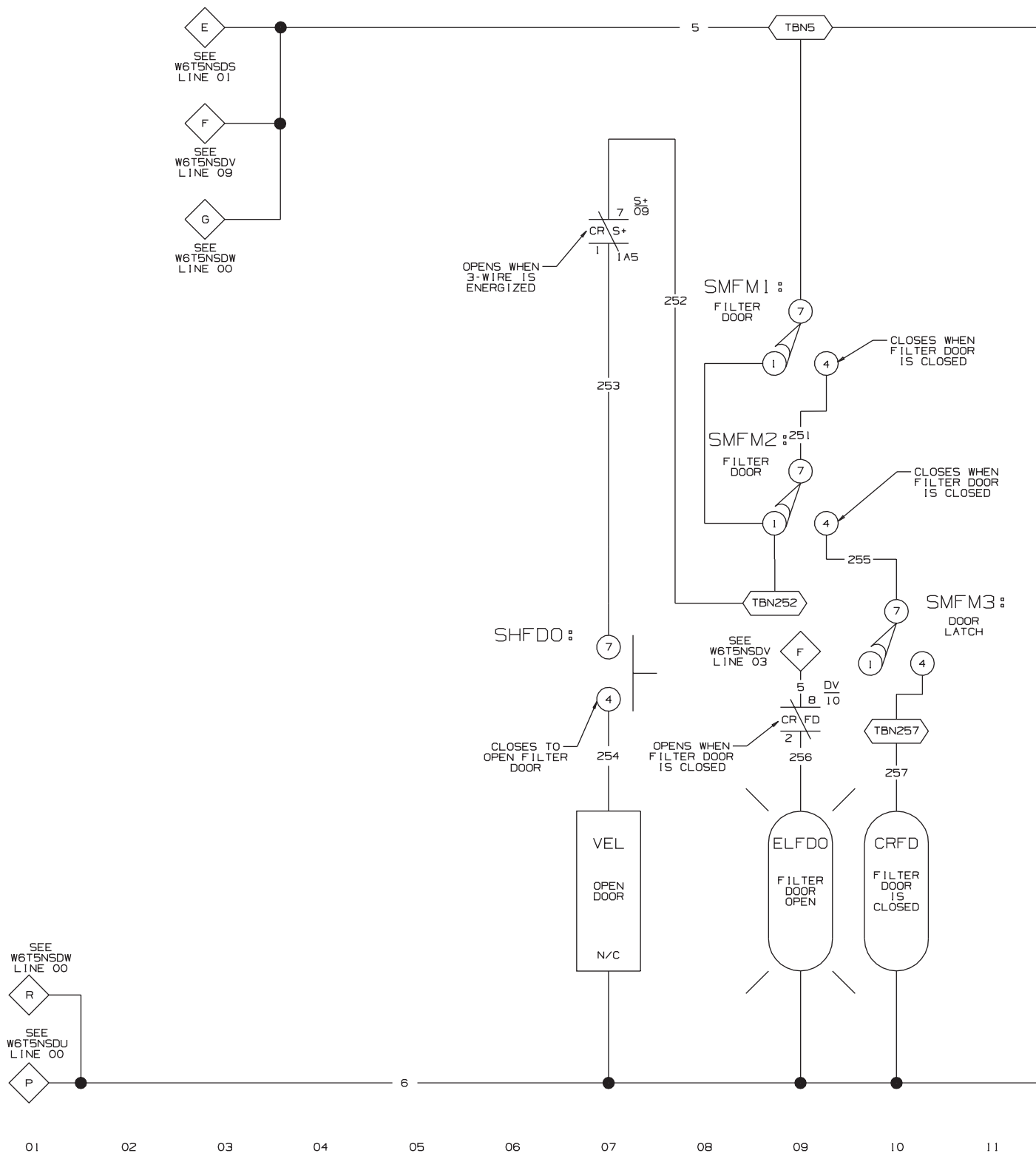
NOTES:

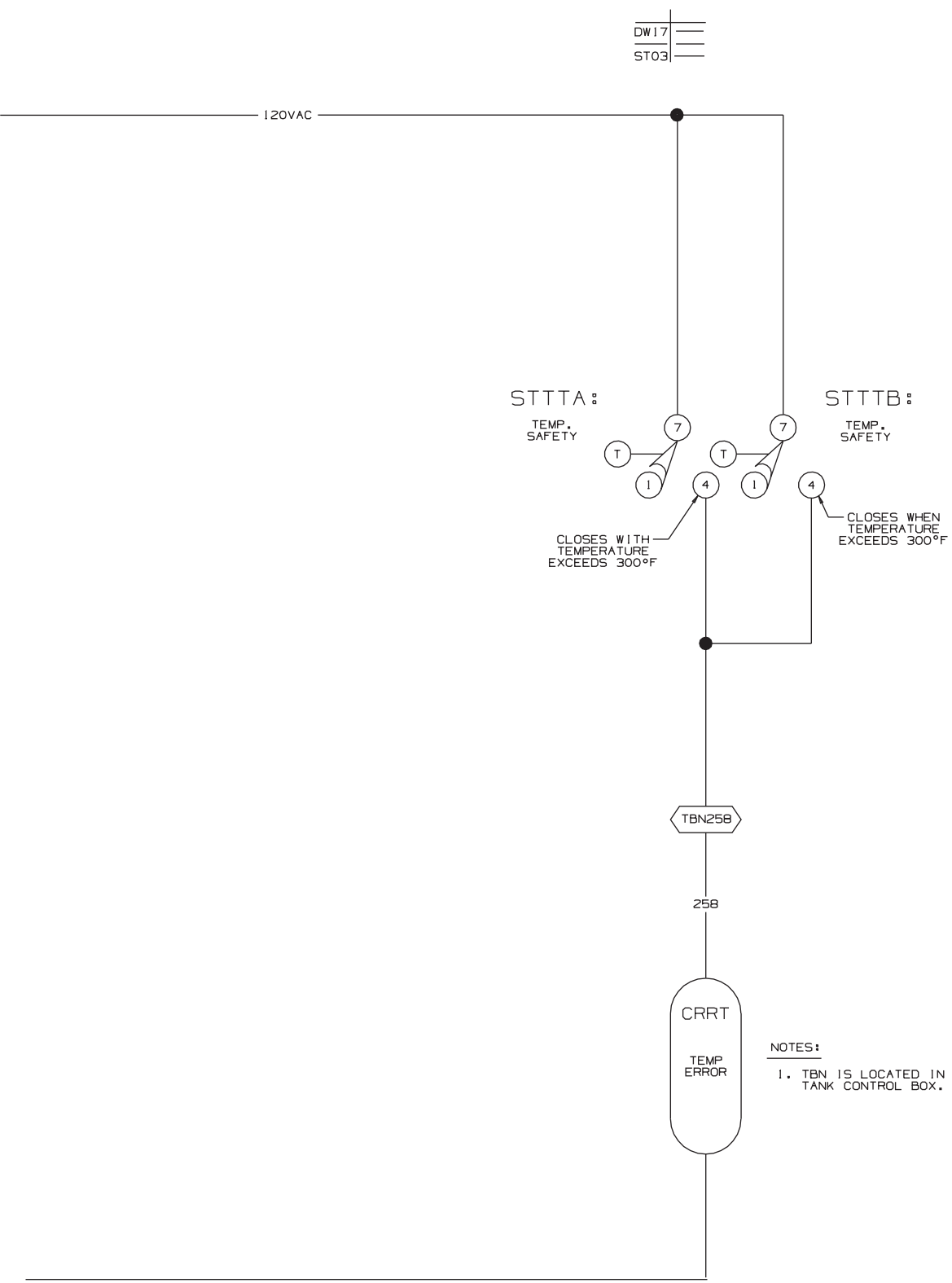
1. 2MTA5 AND 2MTA6 ARE LOCATED ON B10-2 (8 OUTPUT-16 INPUT BOARD).

W6T5NSDU MICRO 6 SYSTEMS MARK V CONTROLS SCHEMATIC: DYE TANKS DRAIN/FLUSH

PELLERIN MILNOR CORPORATION

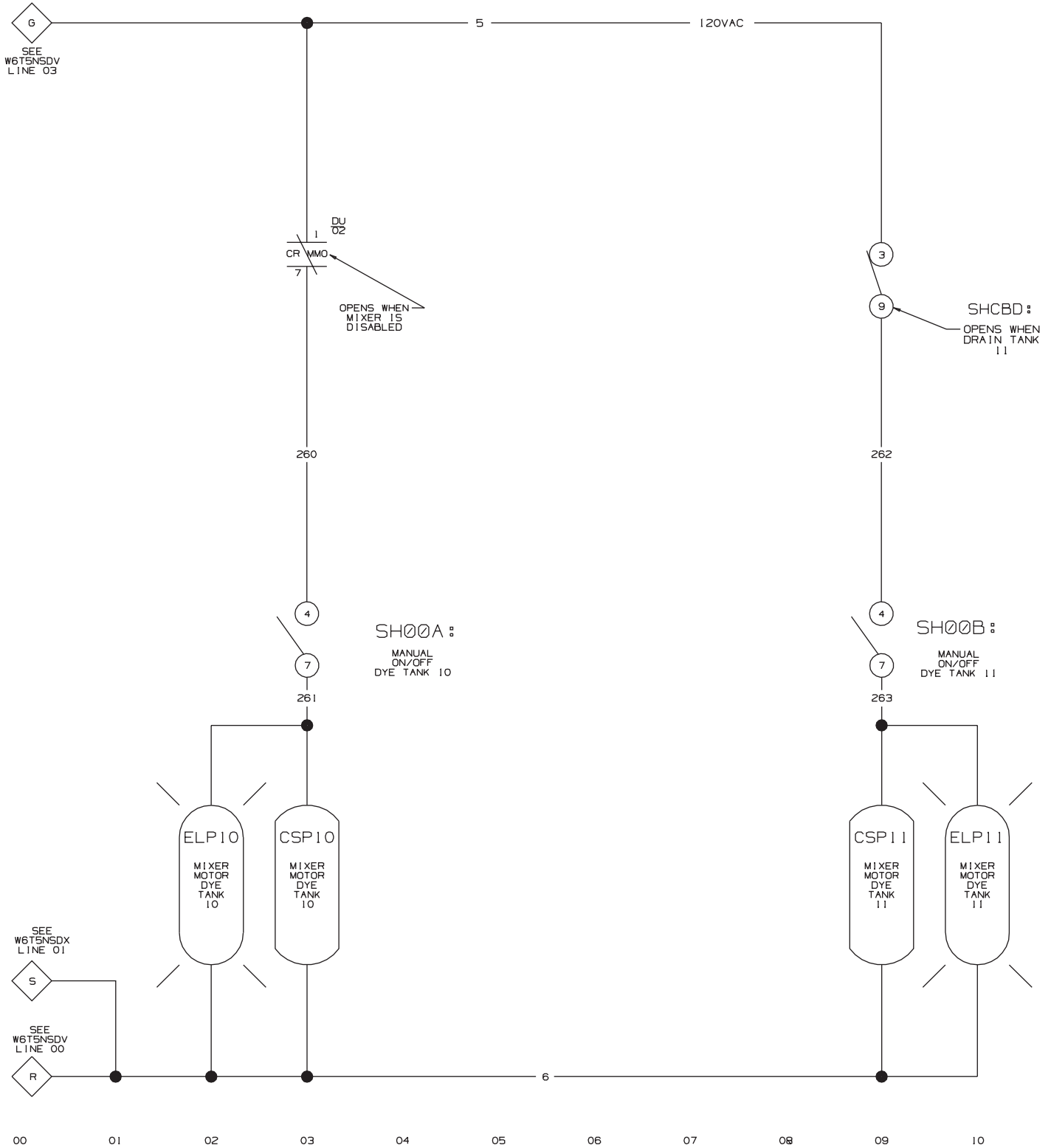
S+11
DV09
EV09

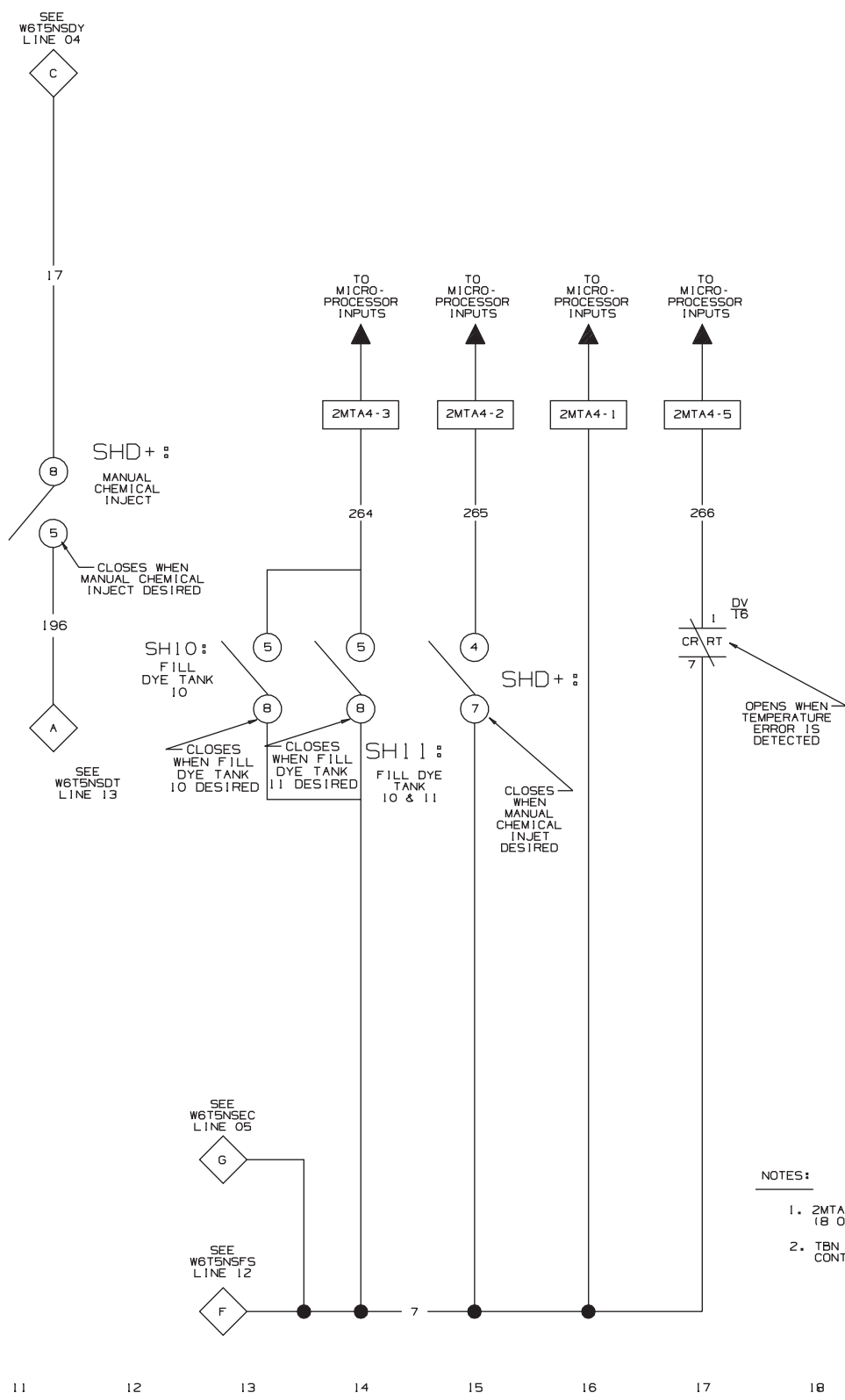




W6T5NSDV
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: DYE TANK FILTER TANK
(SINGLE FILTER)
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:
1. TBN IS LOCATED IN DYE
TANK CONTROL BOX.

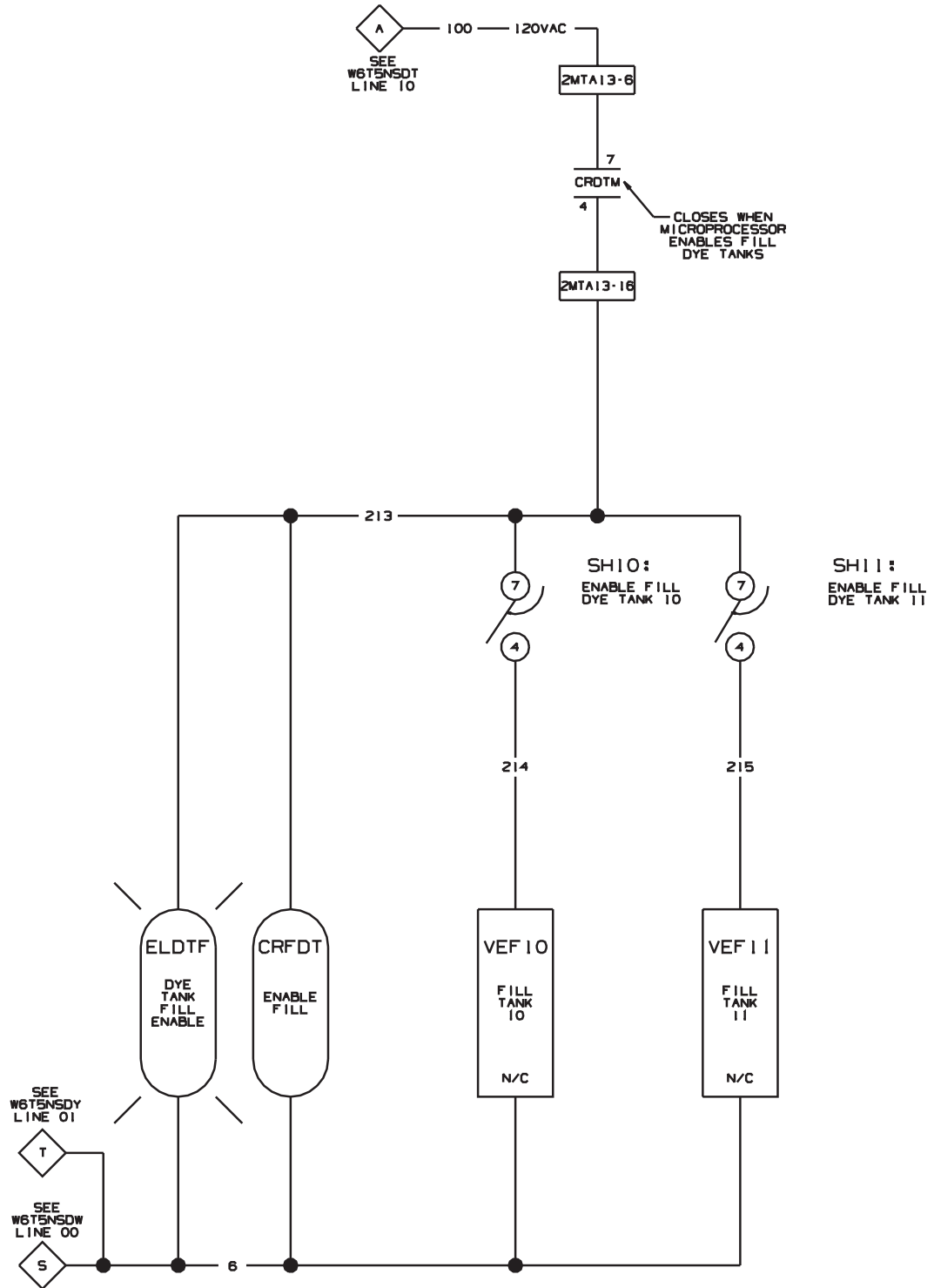




W6T5NSDW
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: DYE TANK MIXER MOTORS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. ZMTA3 IS LOCATED ON BIO-2 (8 OUTPUT 16 INPUT BOARD)
 2. TBN IS LOCATED IN DYE TANK CONTROL BOX.

ST03



00 01 02 03 04 05 06 07 08 09

W6T5NSDX
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: DYE TANK FILL
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. 2MTA14 IS LOCATED ON B016-2
(16 OUTPUT BOARD).

10

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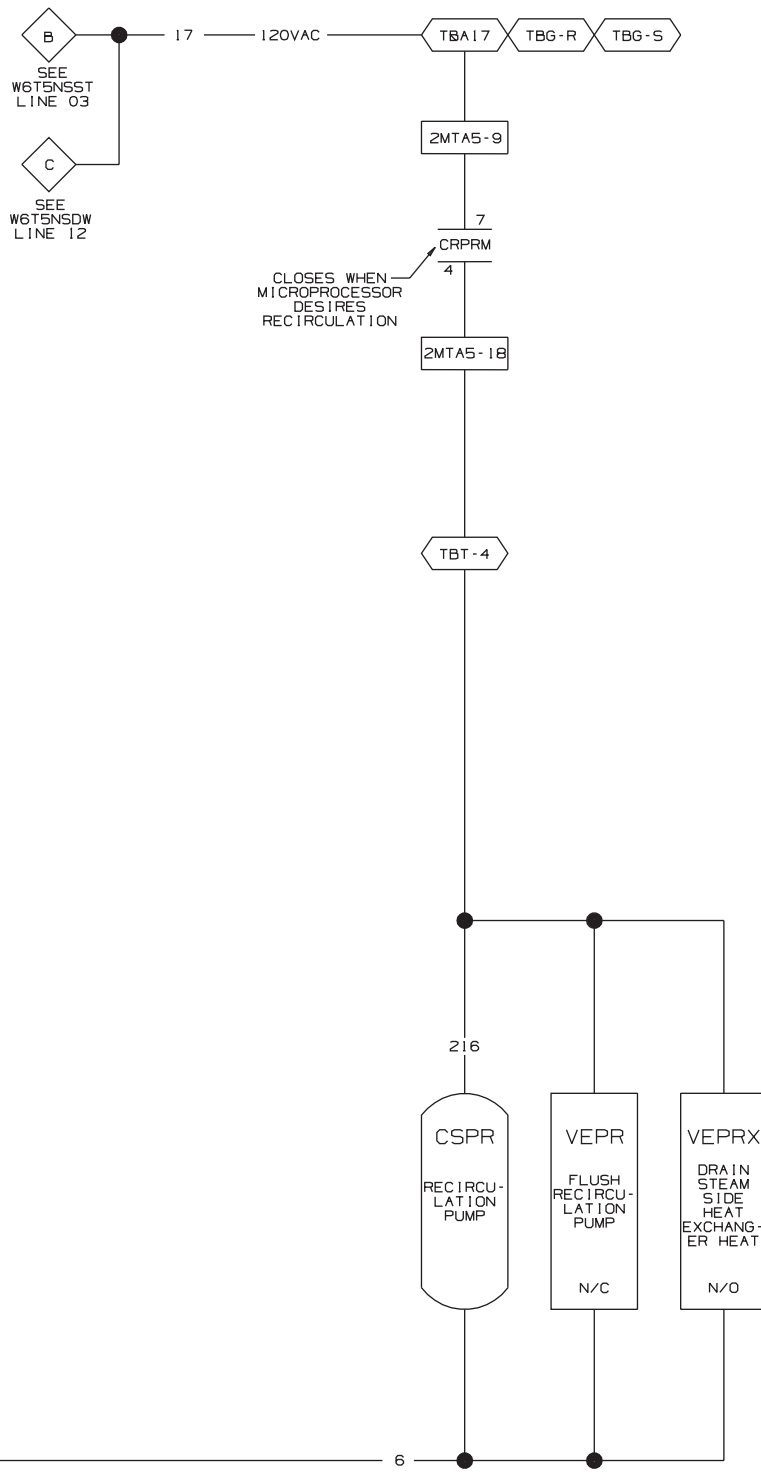
15

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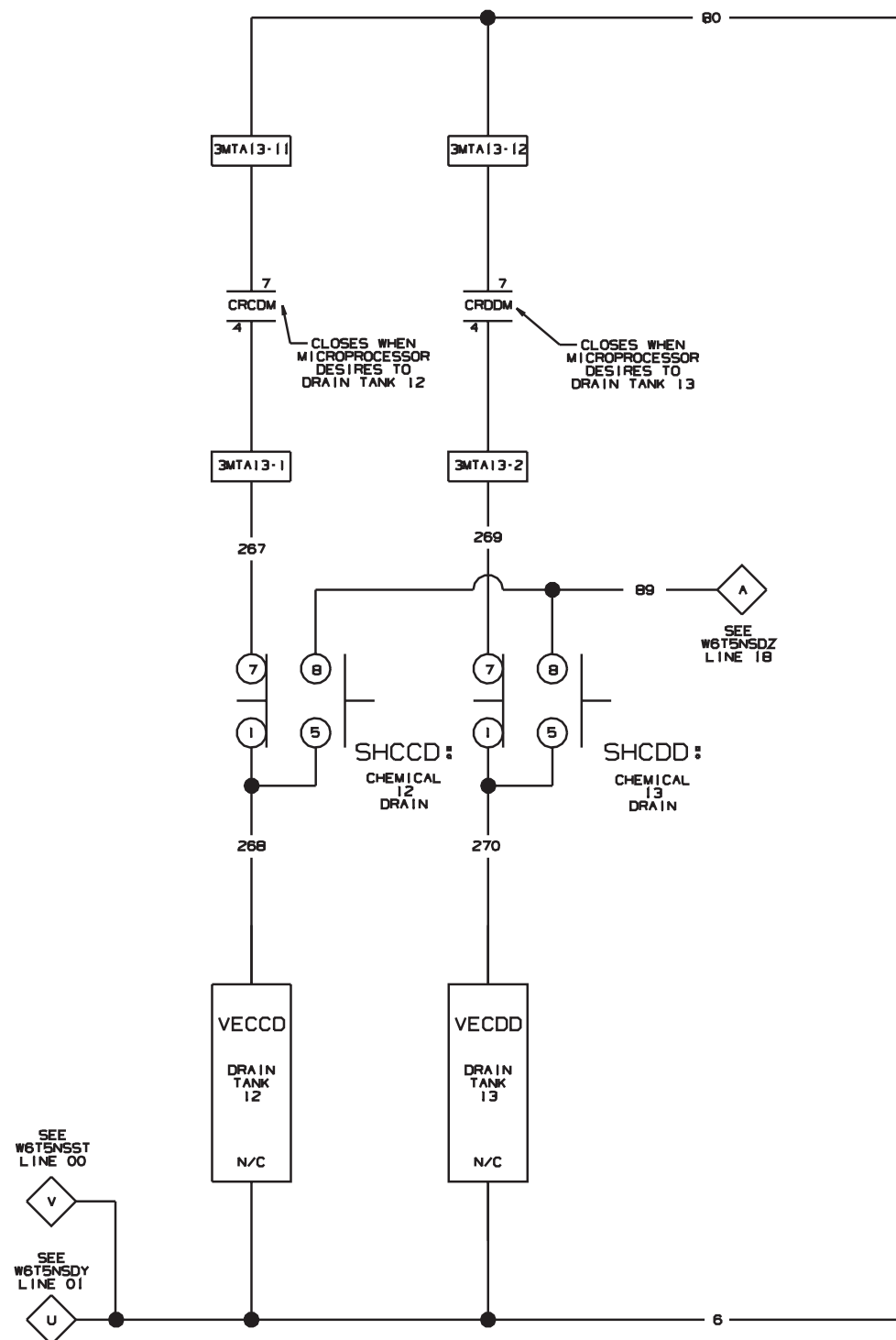


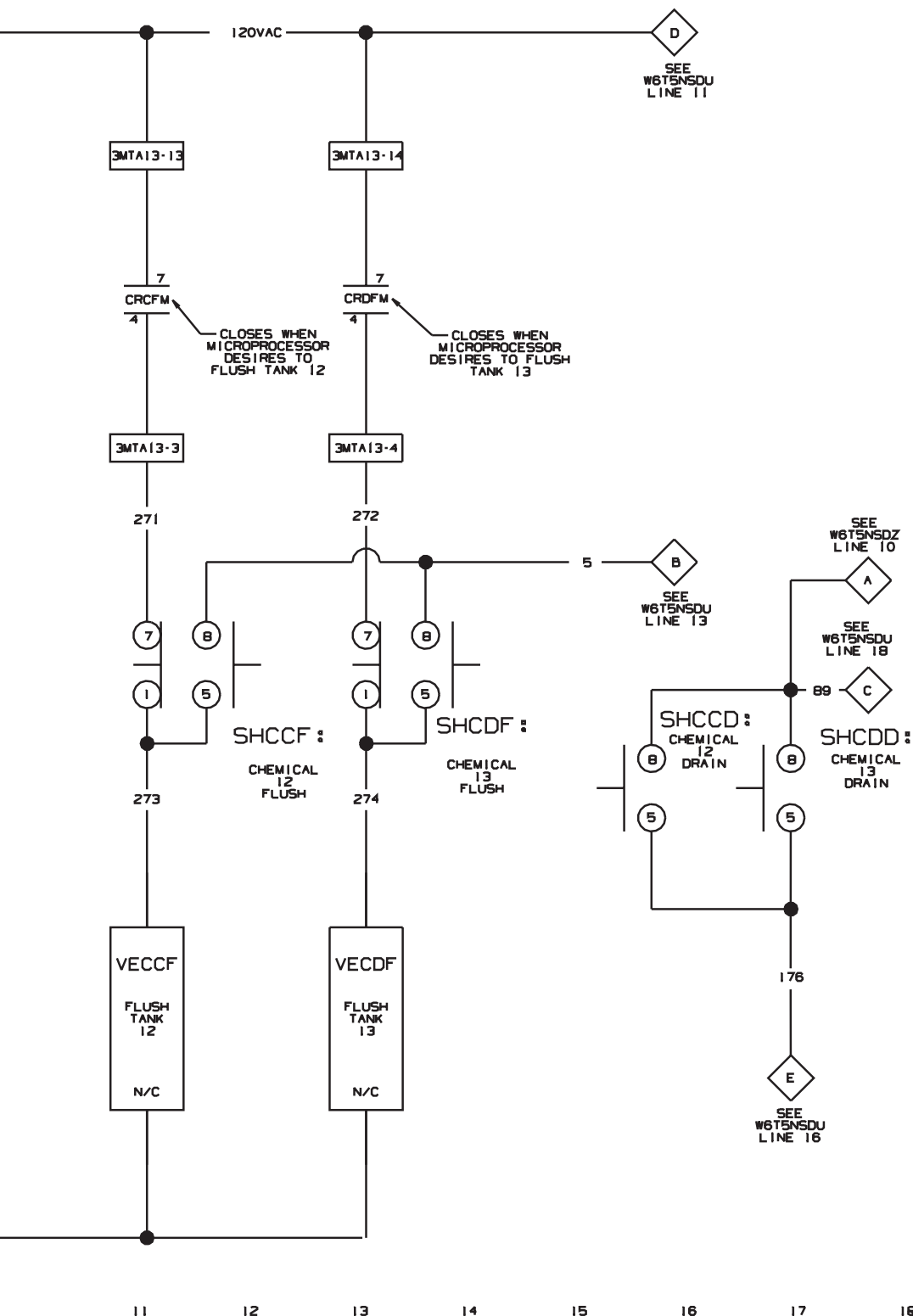
SEE
W6T5NSDZ
LINE 04

SEE
W6T5NSDX
LINE 01

00 01 02 03 04 05 06 07 08 09 10 11

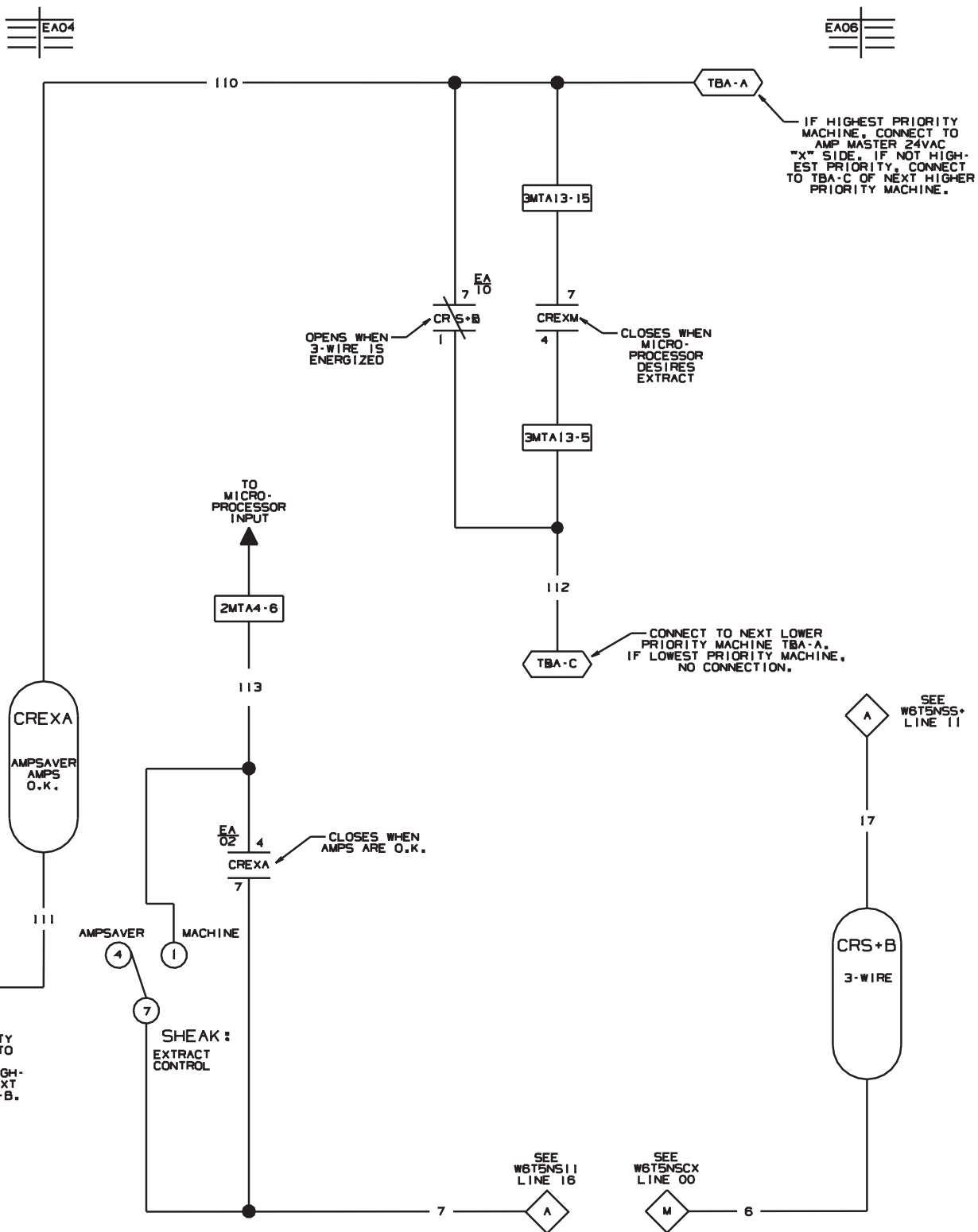
W6T5NSDY
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: RECIRCULATION (SINGLE FILTER)
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION





W6T5NSDZ

MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: ADD 2 REMOTE DYE TANKS = 8
PELLERIN MILNOR CORPORATION



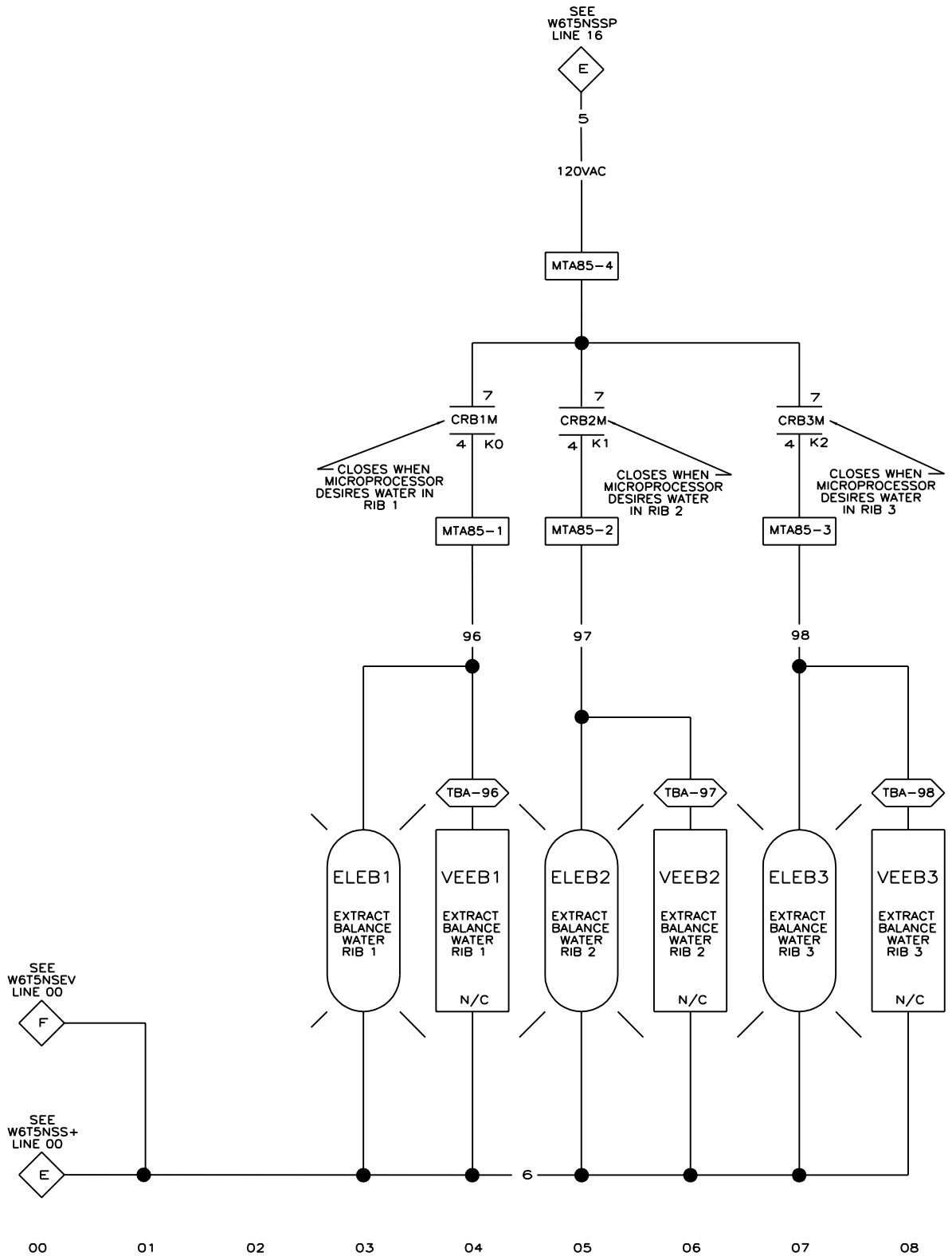
LITHO IN U.S.A.

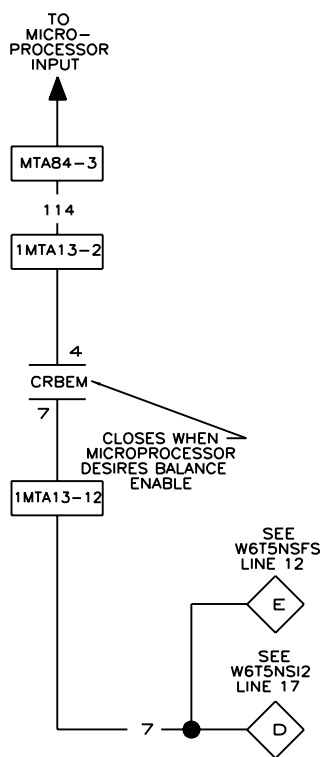
00 01 02 03 04 05 06 07 08 09 10 11

W6T5NSEA

MICRO 6 SYSTEMS
MARK V CONTROLS

SCHEMATIC: EXTRACT COMMANDS SATISFIED
24V1P50HZ/24V1P60HZ
PELLERIN MILNOR CORPORATION





W6T5NSEB

MICRO 6 SYSTEMS

MARK V CONTROLS

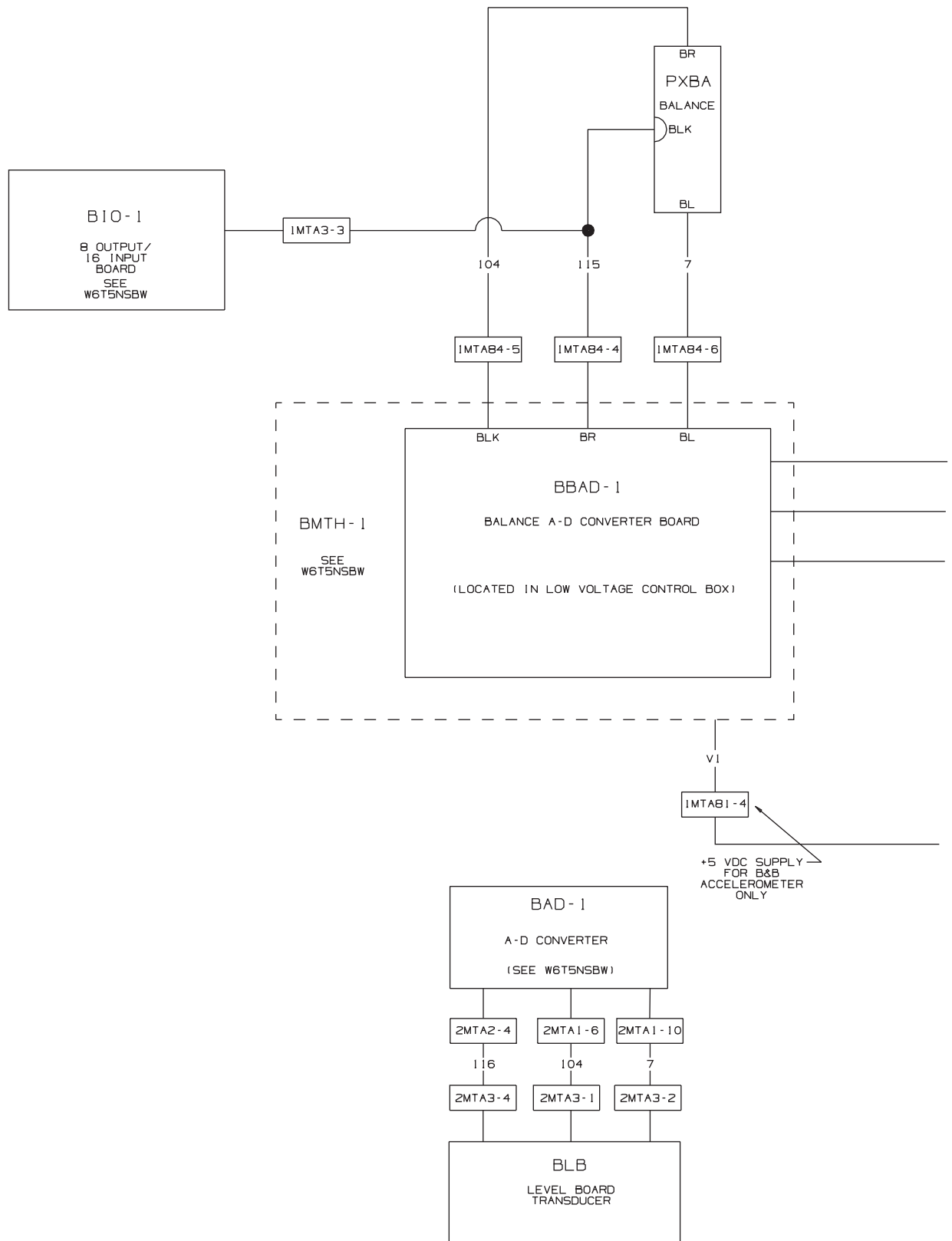
SCHEMATIC: BALANCING VALVES

MODIFIED FOR ELECTRONIC BALANCE

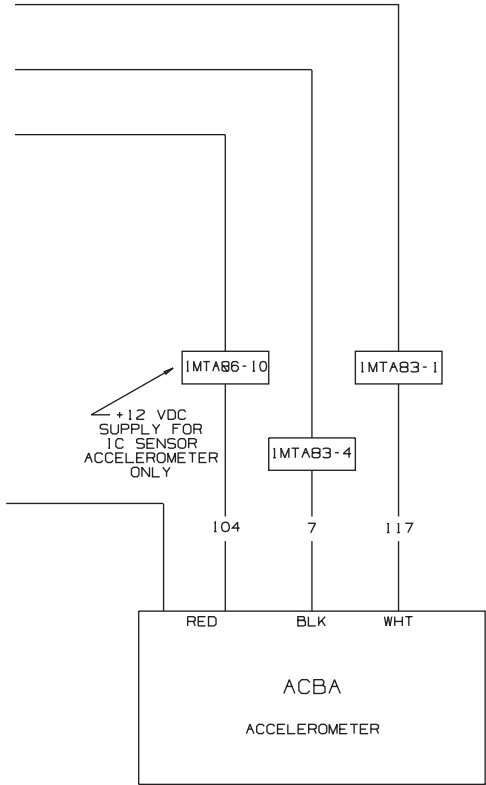
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

W6T5NSEB
2001235B

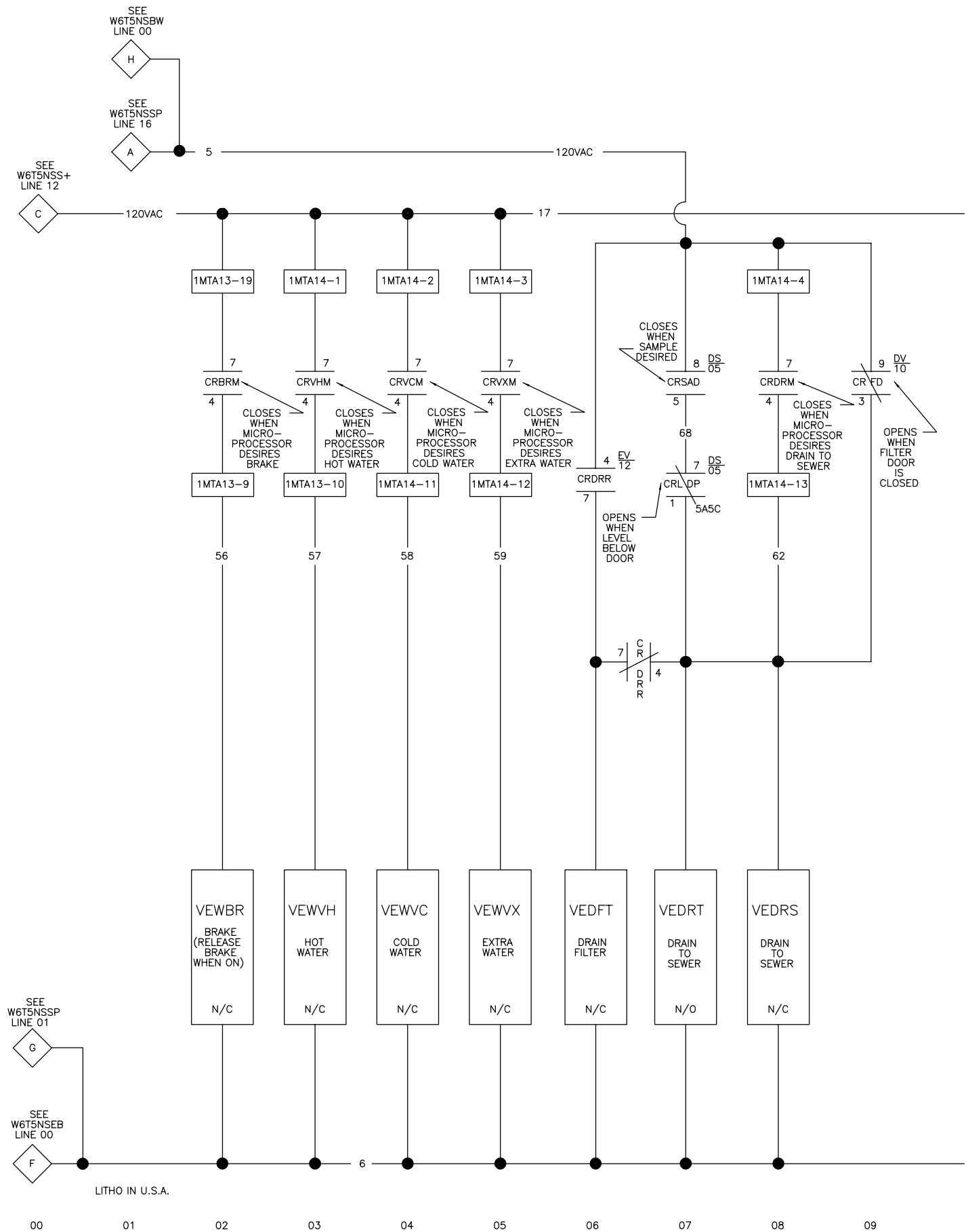


00 01 02 03 04 05 06 07 08 09 10

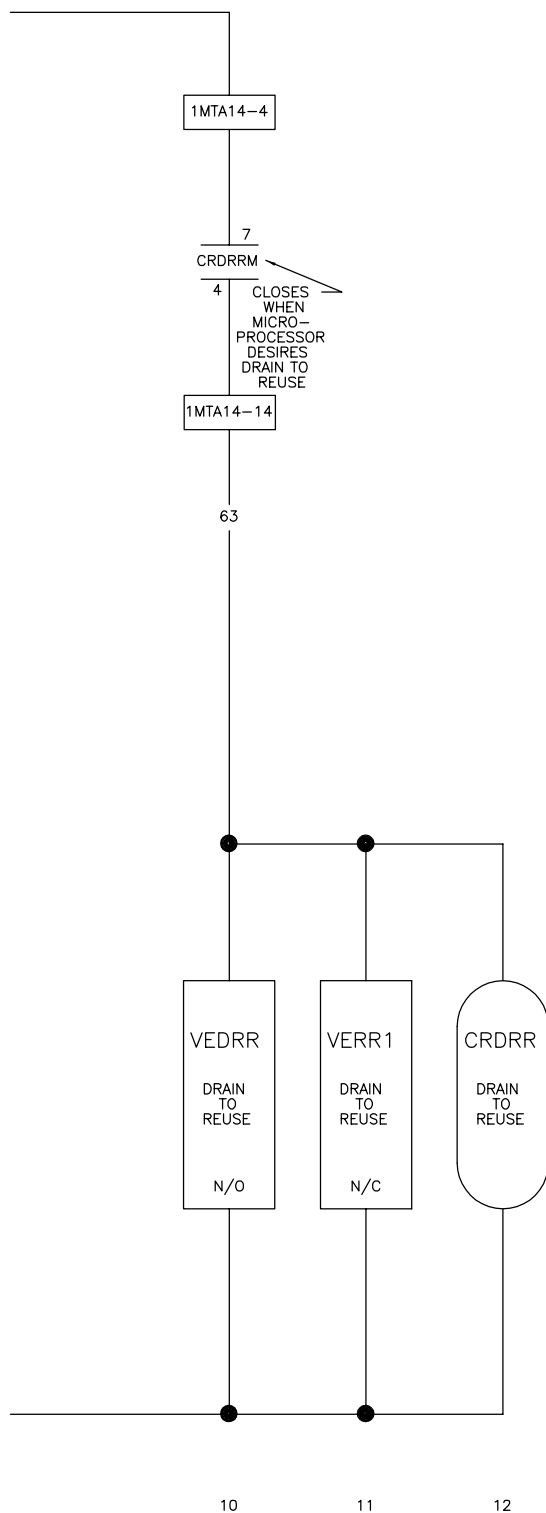


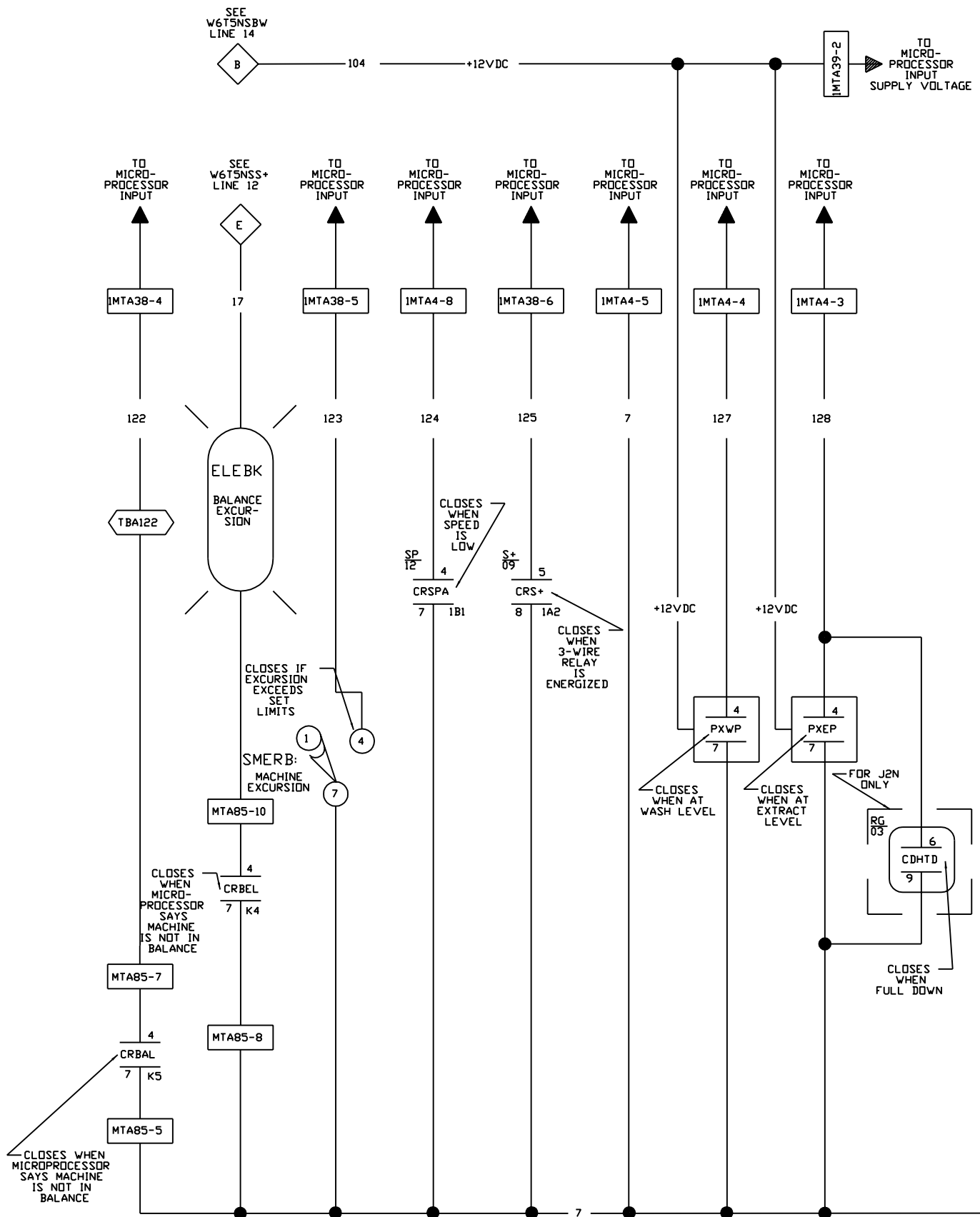
WIRING	VOLTAGE	WIRE COLOR
103	+5VDC	BLUE
104	+12VDC	BLUE/ORANGE
105	-12VDC	BLUE/BLACK
7	GROUND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
INPUTS	-	BLUE/BLACK
-	24VAC	BLUE/RED
-	120VAC	RED
6	CONTROL GROUND	RED/WHITE

W6T5NSEC
MICRO 6 SYSTEMS
MARK V
SCHEMATIC: ELECTRONIC BALANCE/LEVEL
PELLERIN MILNOR CORPORATION



W6T5NSEV
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: ELECTRICAL VALVES
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION





LITHO IN U.S.A.

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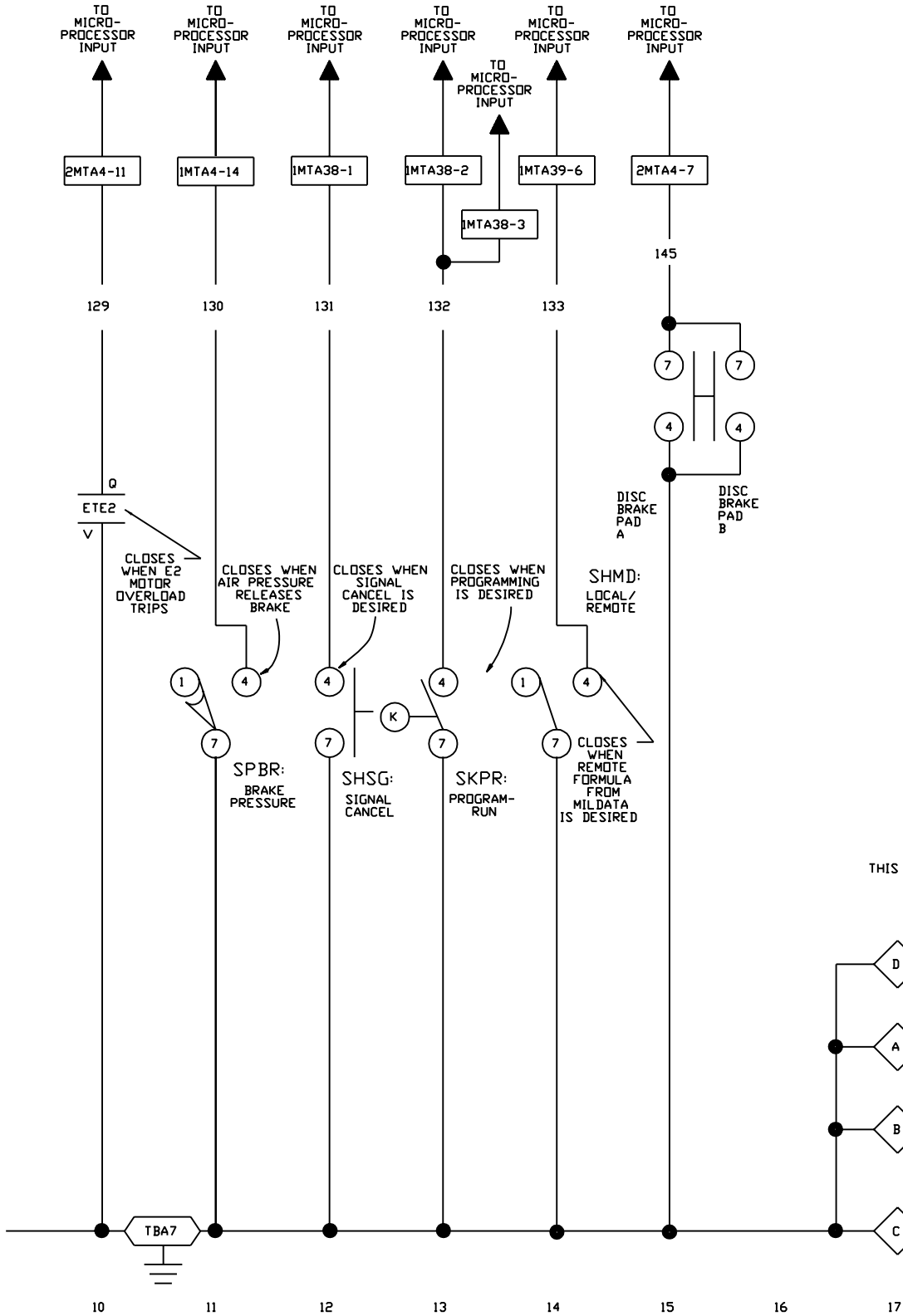
05

06

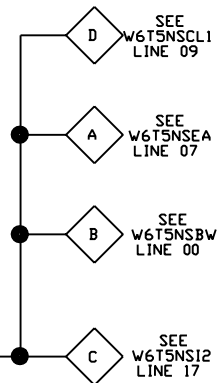
07

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NOTE:
THIS SCHEMATIC REPLACES W6T2NSS11
FOR 186 PROCESSOR BOARD.



W6T5NS11A

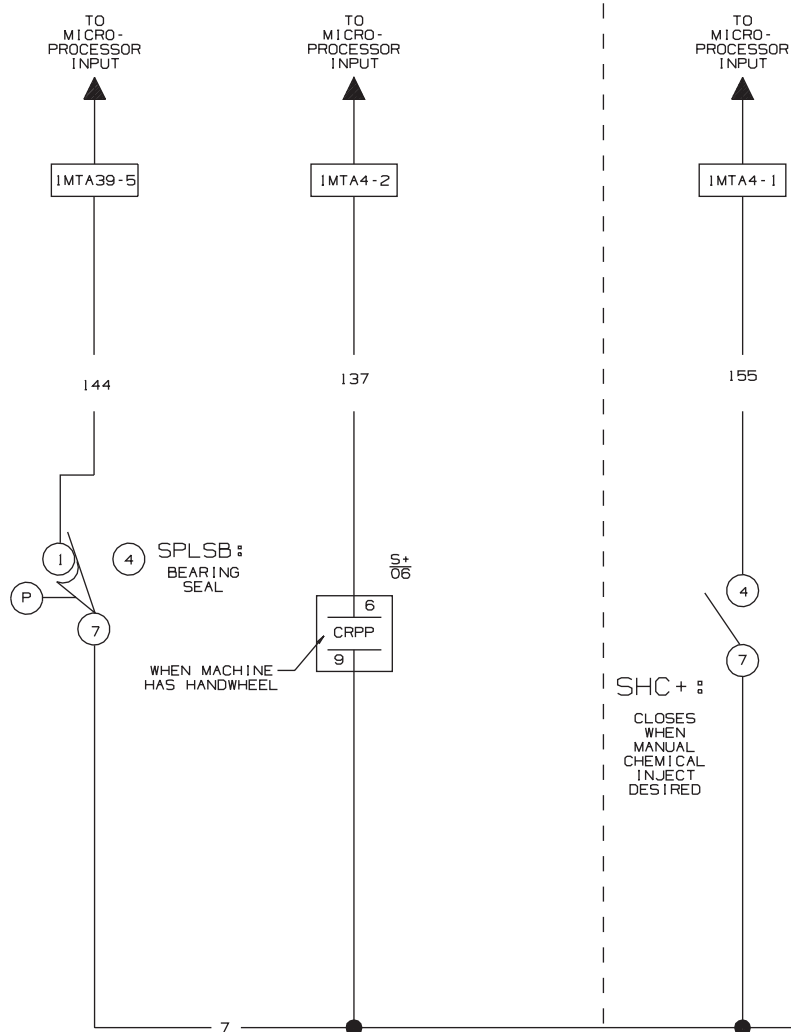
MICRO 6 SYSTEMS

MARK V CONTROLS

SCHEMATIC: INPUTS

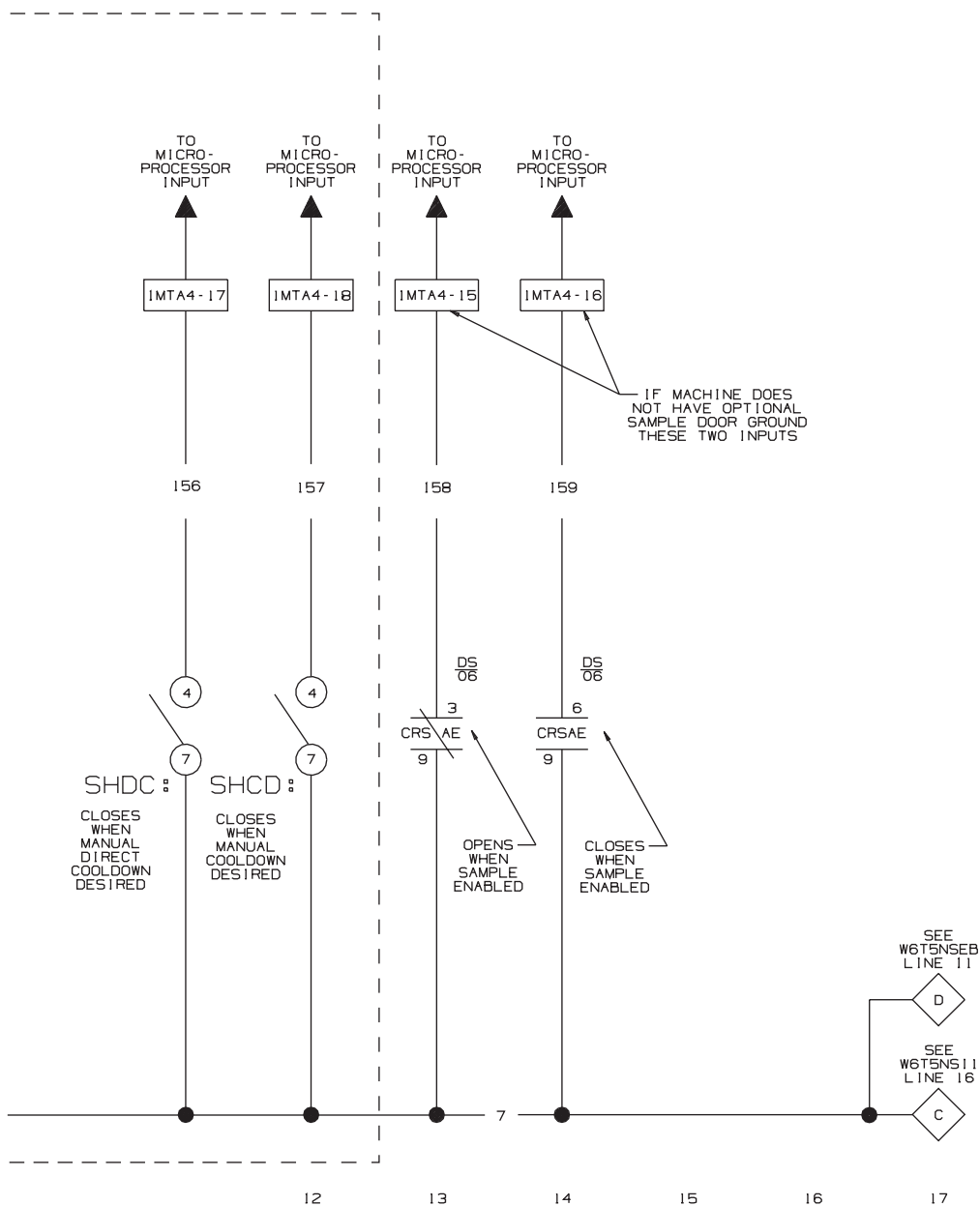
PELLERIN MILNOR CORPORATION

FOR DYE
MACHINES
ONLY



LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10 11



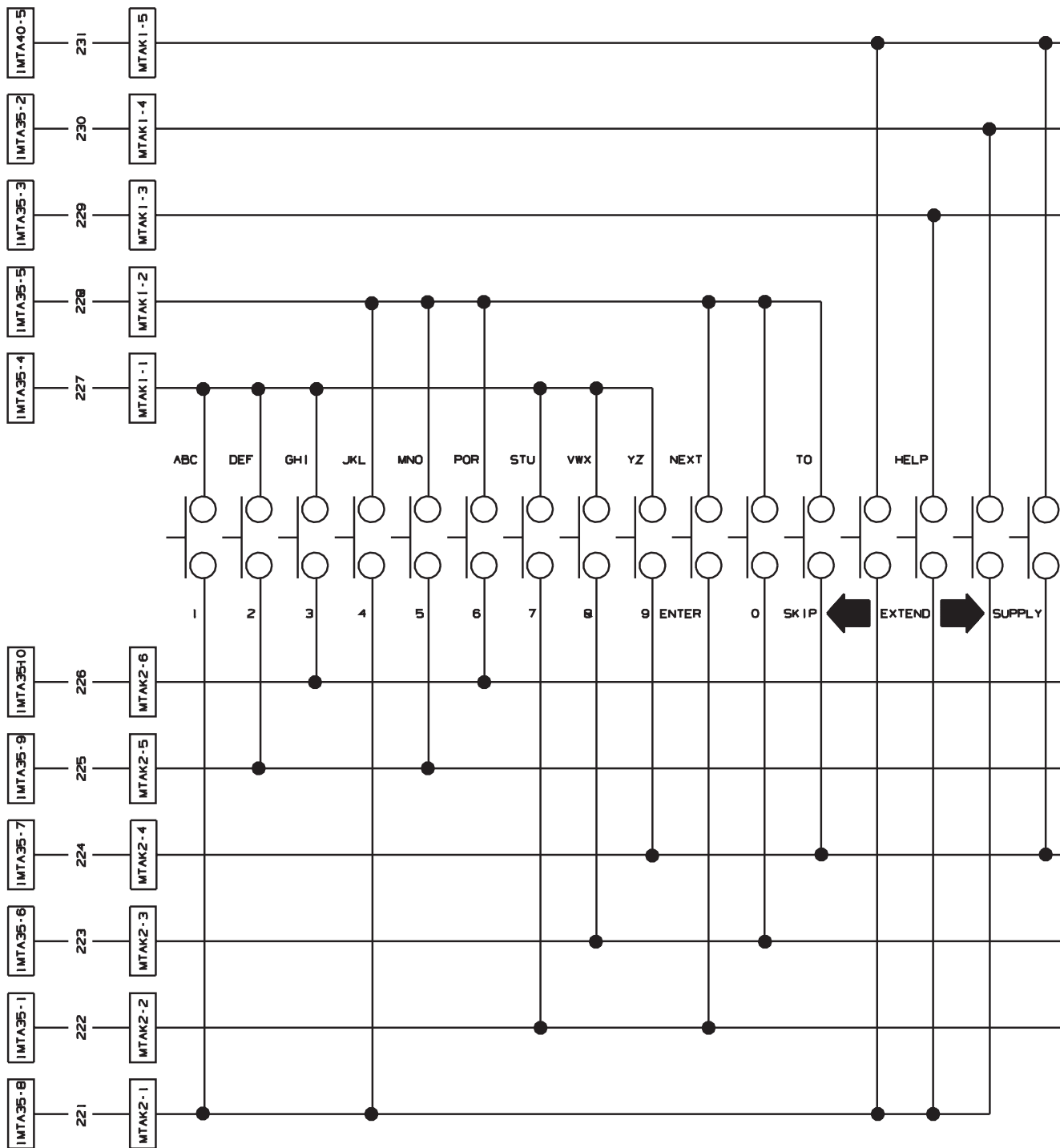
W6T5NS12

MICRO 6 SYSTEMS

MARK V CONTROLS

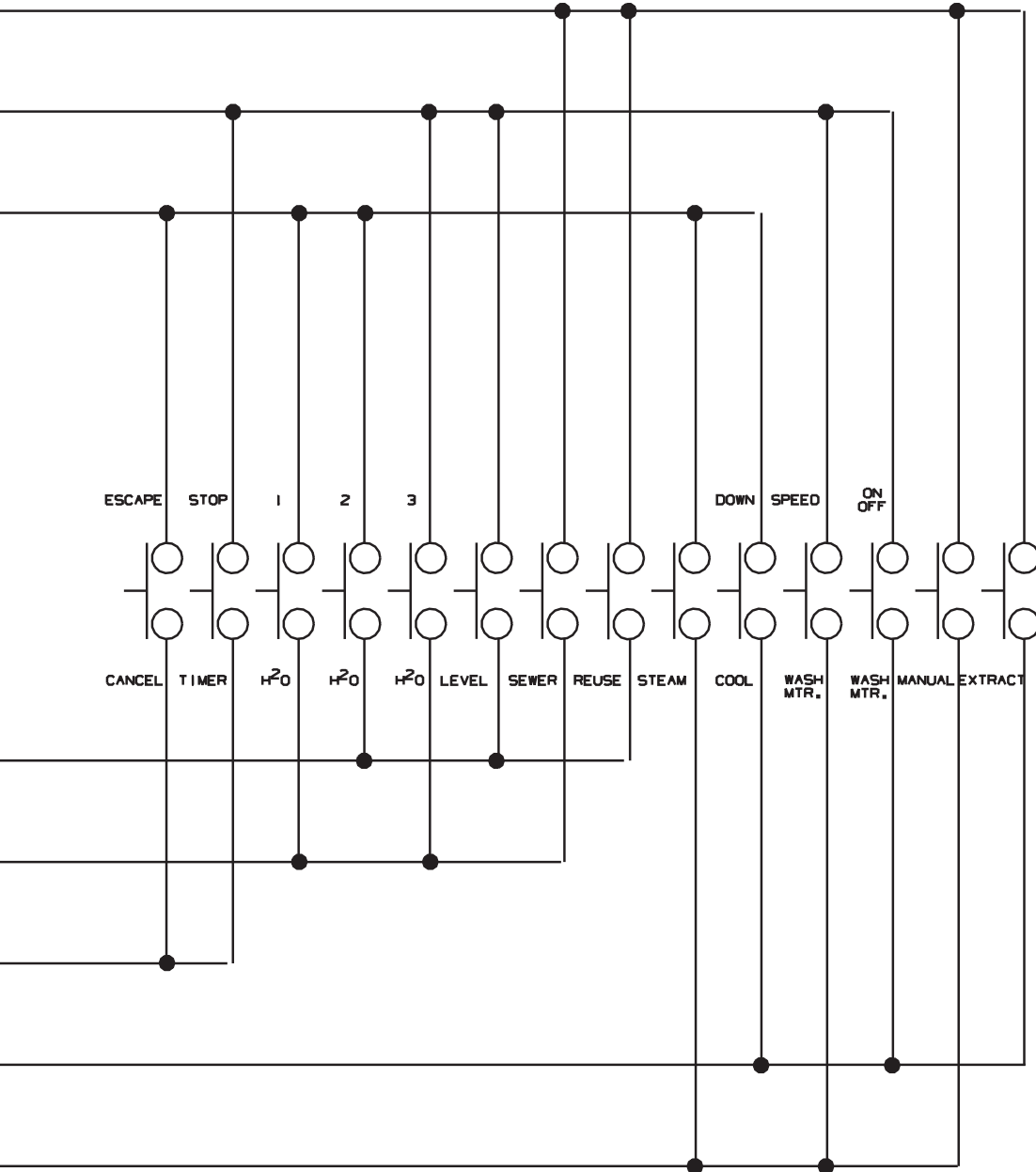
SCHEMATIC: MICROPROCESSOR INPUTS

PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10



NOTES:

1. MTA1 & MTA2 ARE LOCATED ON KEYPAD.
2. IMTA35 & IMTA40 ARE LOCATED ON BPB (PROCESSOR BOARD).

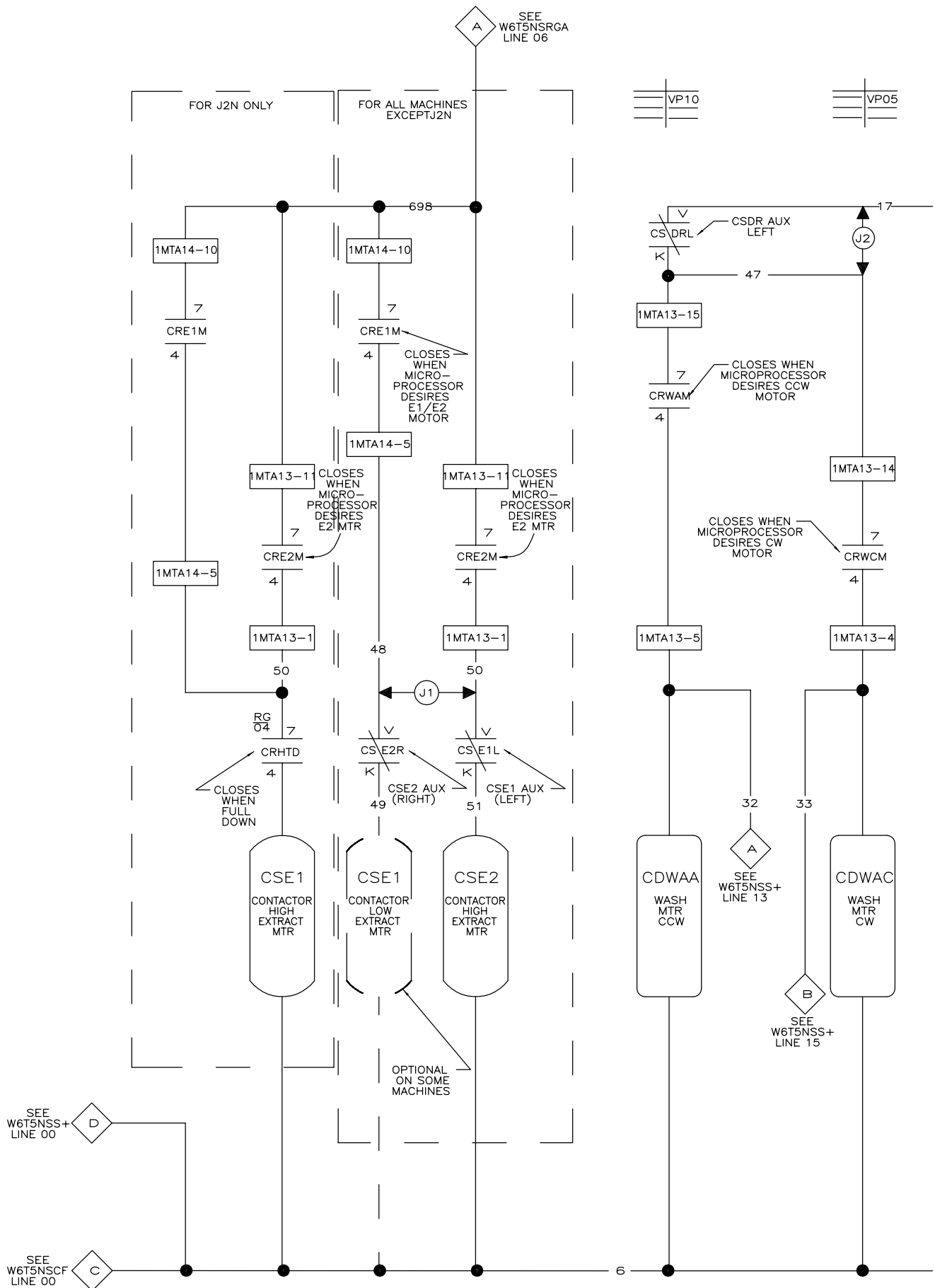
W6T5NSKP

MICRO 6 SYSTEMS MARK V CONTROLS

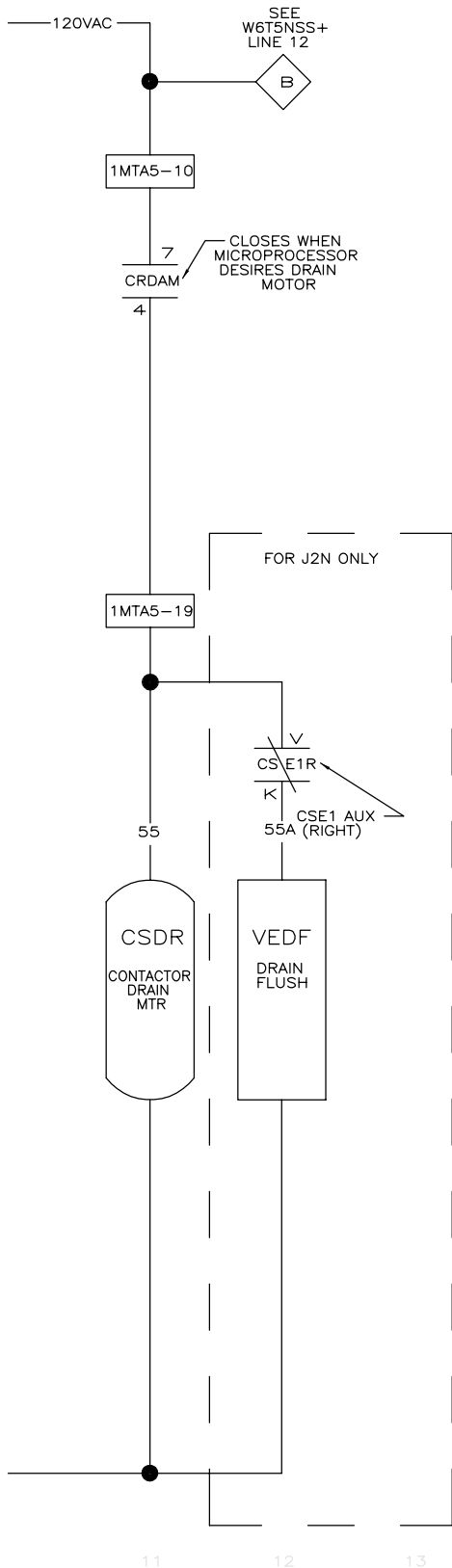
SCHEMATIC: KEYPAD (SERIAL CONTROLS)

PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19



LITHO IN U.S.A.



NOTES:

1. REMOVE (J1) FOR TWO SPEED EXTRACT.
2. SEE DRAWING W6T5NSVP FOR WASH MOTOR CONTACTORS
3. REMOVE J2 FOR J5, 6N AND D6N

W6T5NSMC

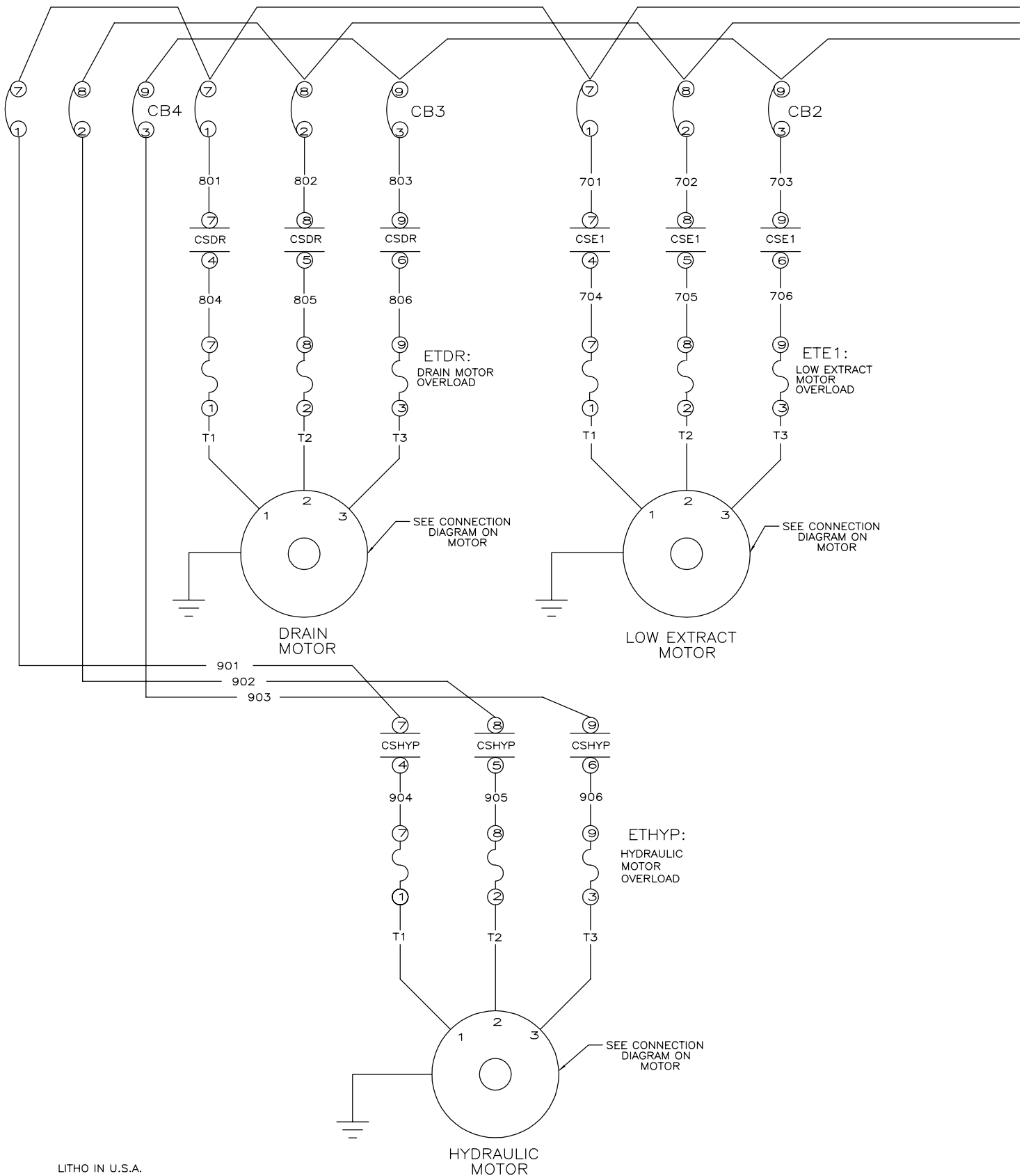
MICRO 6 SYSTEMS

MARK V CONTROLS

SCHEMATIC: DRIVE MOTOR CONTACTOR

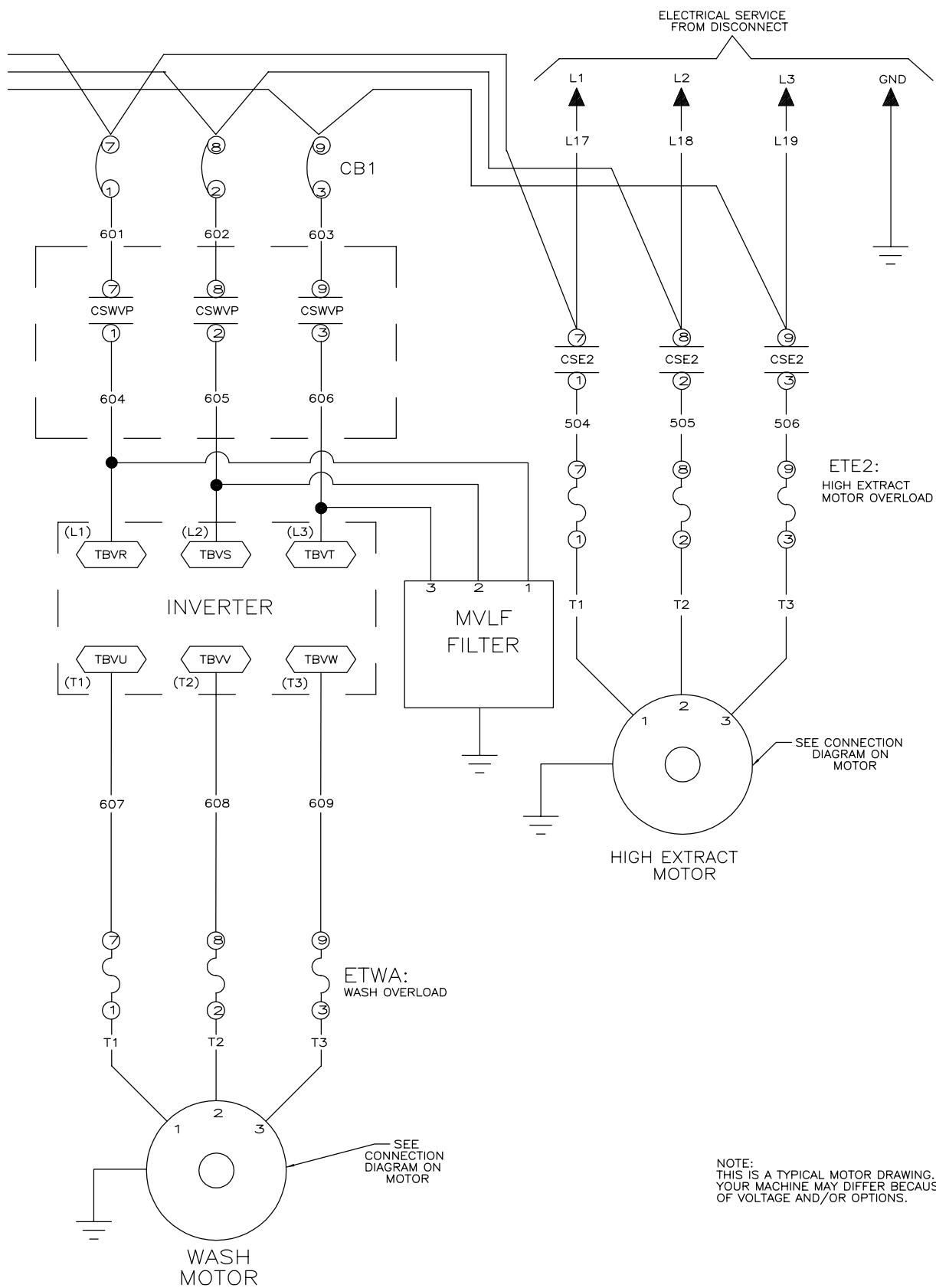
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

W6T5NSMC
2008395B

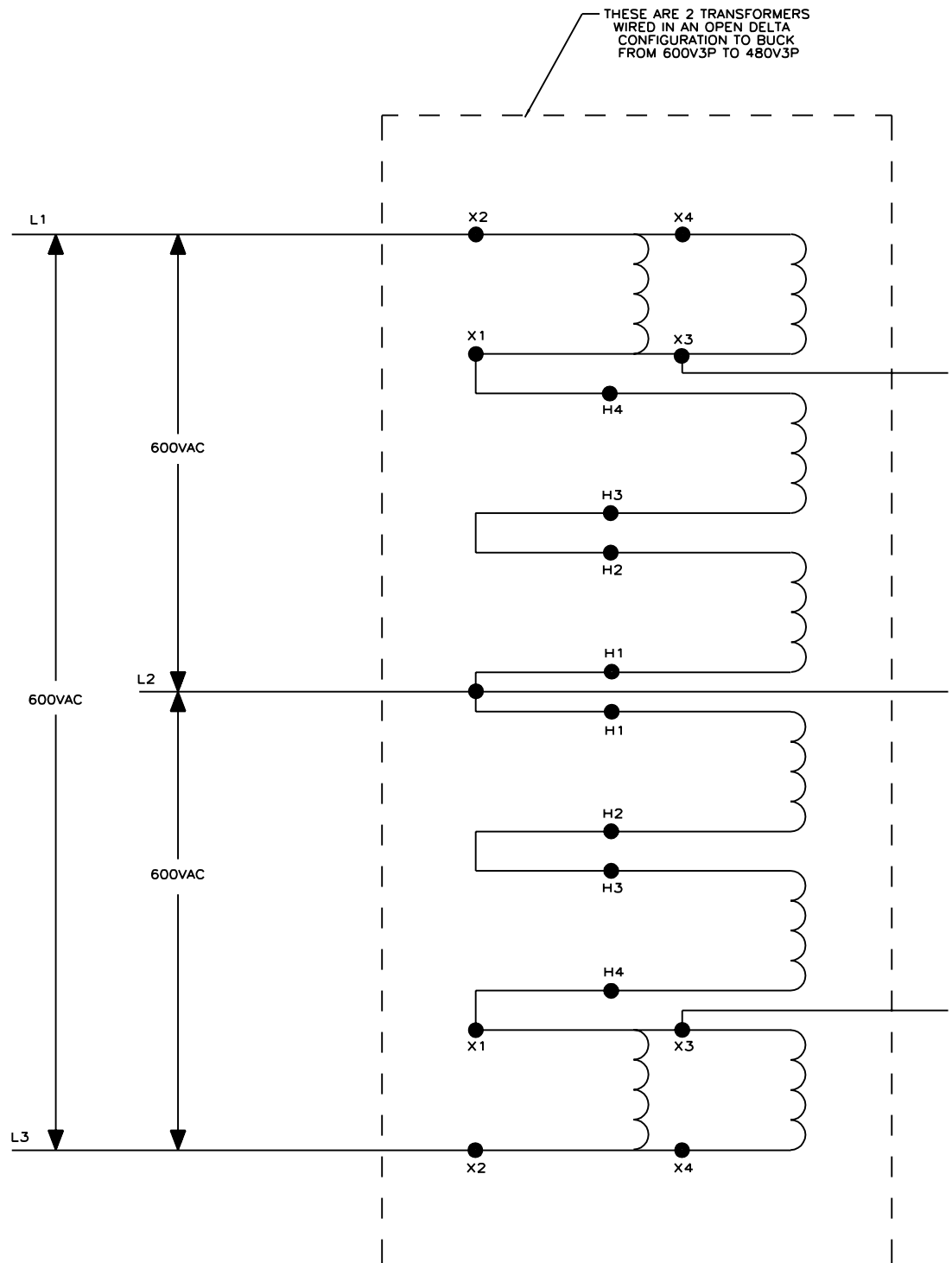


LITHO IN U.S.A.

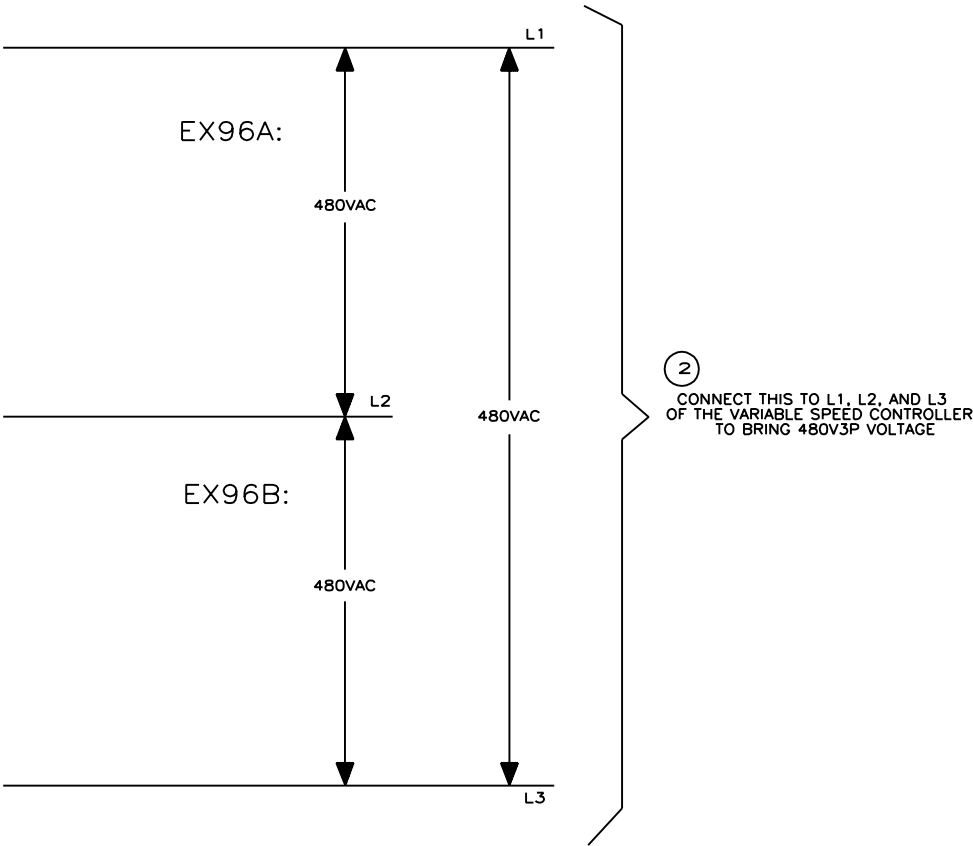
00 01 02 03 04 05 06 07 08 09



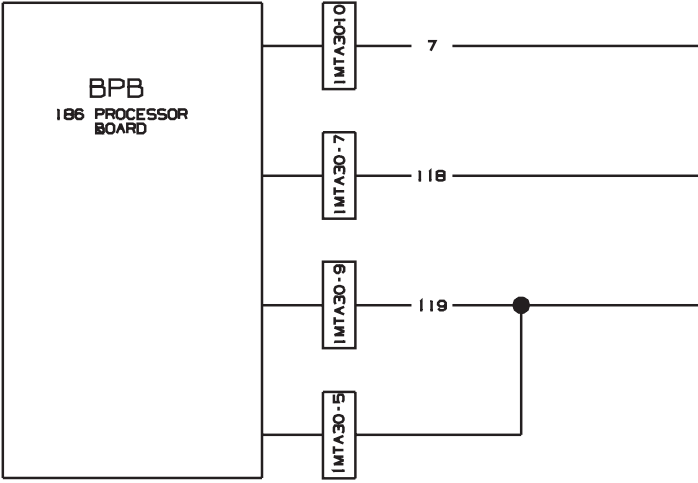
1
REMOVE THE 3 PHASE
FEED FROM L1, L2, AND L3
OF THE VARIABLE SPEED
CONTROLLER AND CONNECT
TO THE TRANSFORMERS



INPUT (SUPPLY SYSTEM)	DESIRED OUTPUT CONNECTION	
DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
OPEN DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
WYE 3 OR 4 WIRE	CLOSED DELTA 3 WIRE	DO NOT USE
WYE 4 WIRE	WYE 3 OR 4 WIRE	OK
WYE 3 OR 4 WIRE	OPEN DELTA 3 WIRE	OK
CLOSED DELTA 3 WIRE	OPEN DELTA 3 WIRE	OK

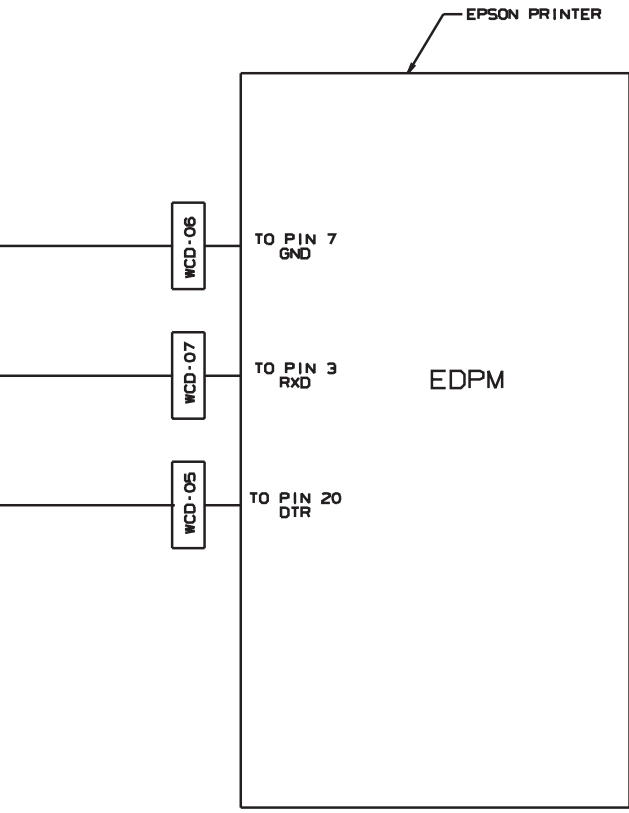


W6T5NSMT6
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: 600V DYE MACHINES
600V TO 480 VOLT STEP DOWN
PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

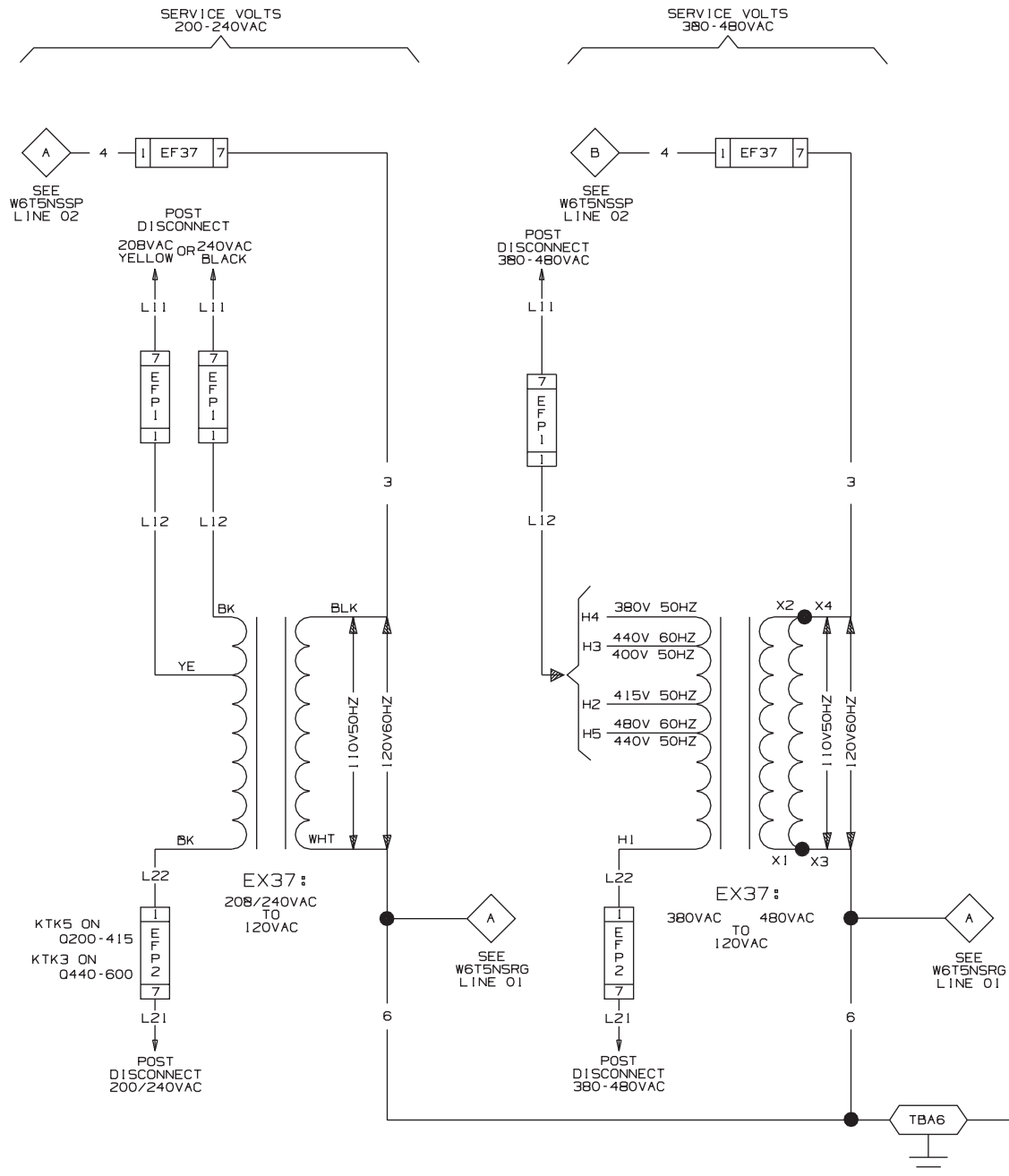
00 01 02 03 04 05 06 08 09 10



W6T5NSPI
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: PRINTER WIRING
PELLERIN MILNOR CORPORATION

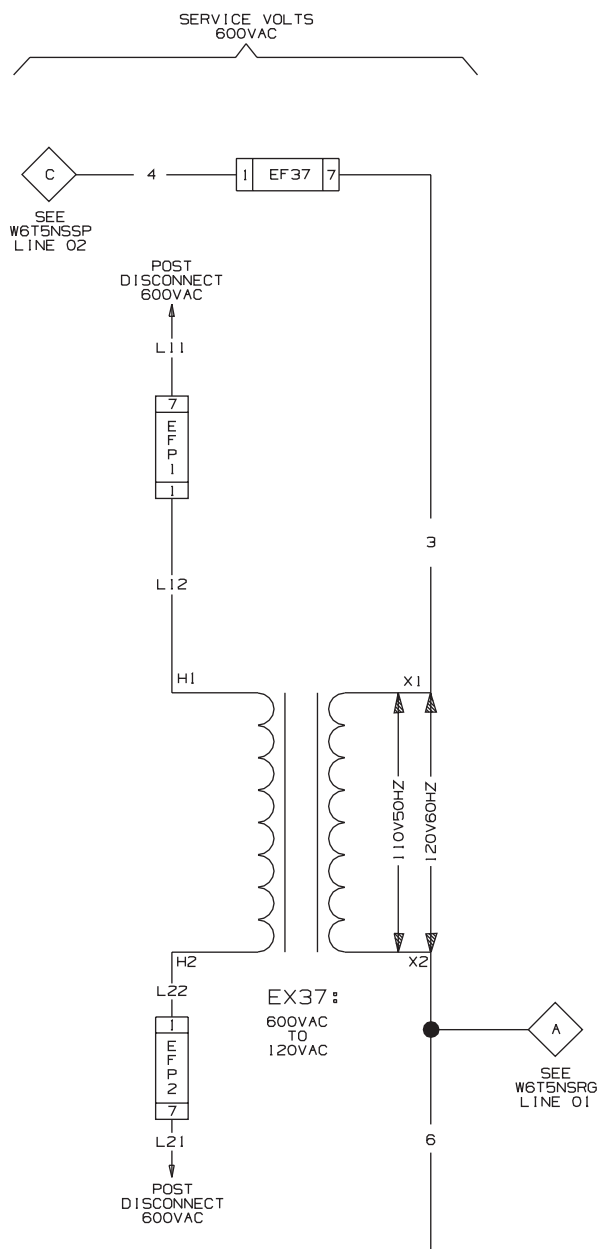
11 12 13 14 15 16 17 18

CONTROL CIRCUIT POWER



LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09

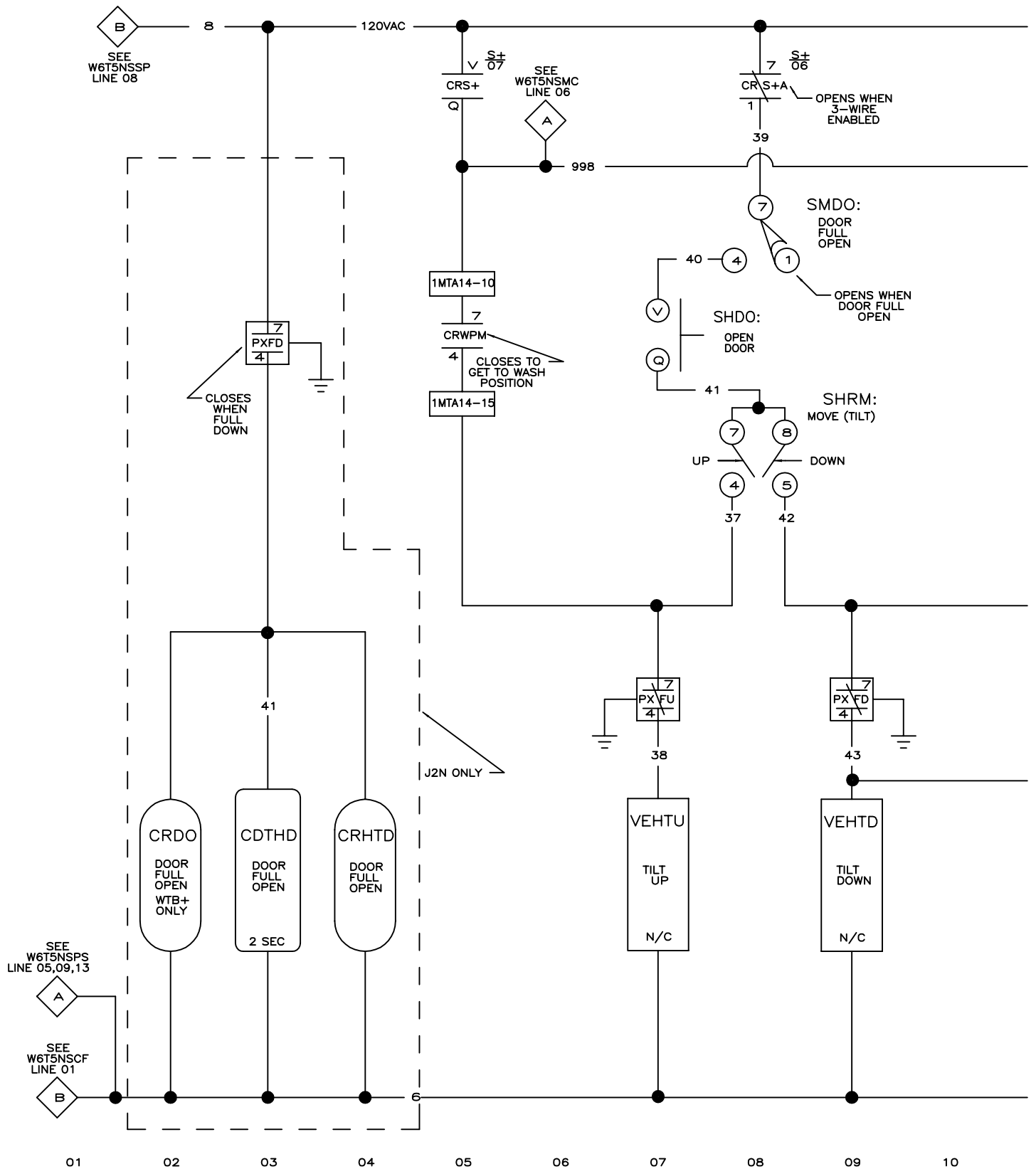


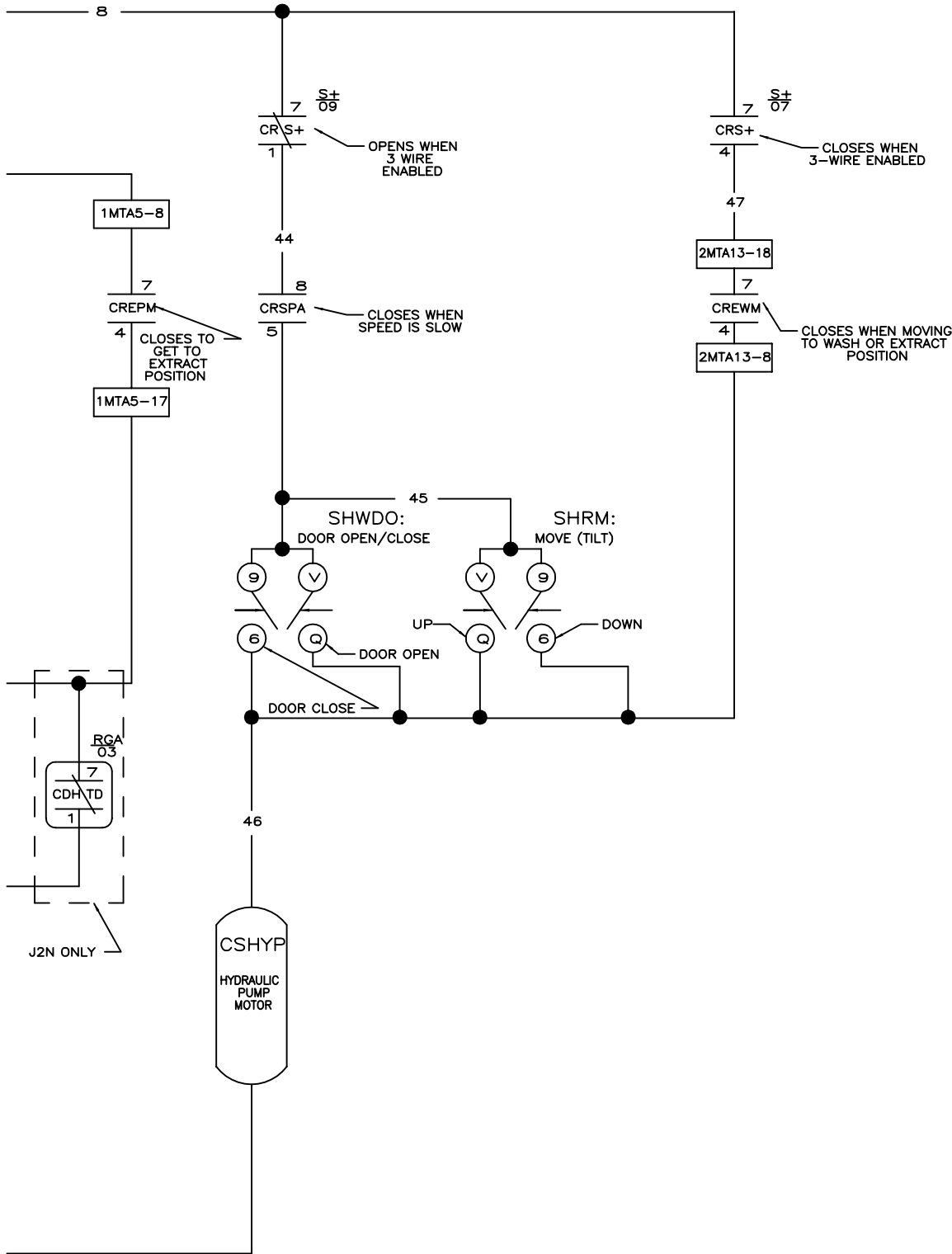
NOTES:

1. TB4 (COPPER BUS BAR) ARE LOCATED IN THE LOW VOLTAGE CONTROL BOX.
2. TB2 AND TB5 (COPPER BUS BAR) ARE LOCATED IN THE HIGH VOLTAGE CONTROL BOX.

W6T5NSPS
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: CONTROL CIRCUIT POWER
SOURCE 110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

RGA10





W6T5NSRGA

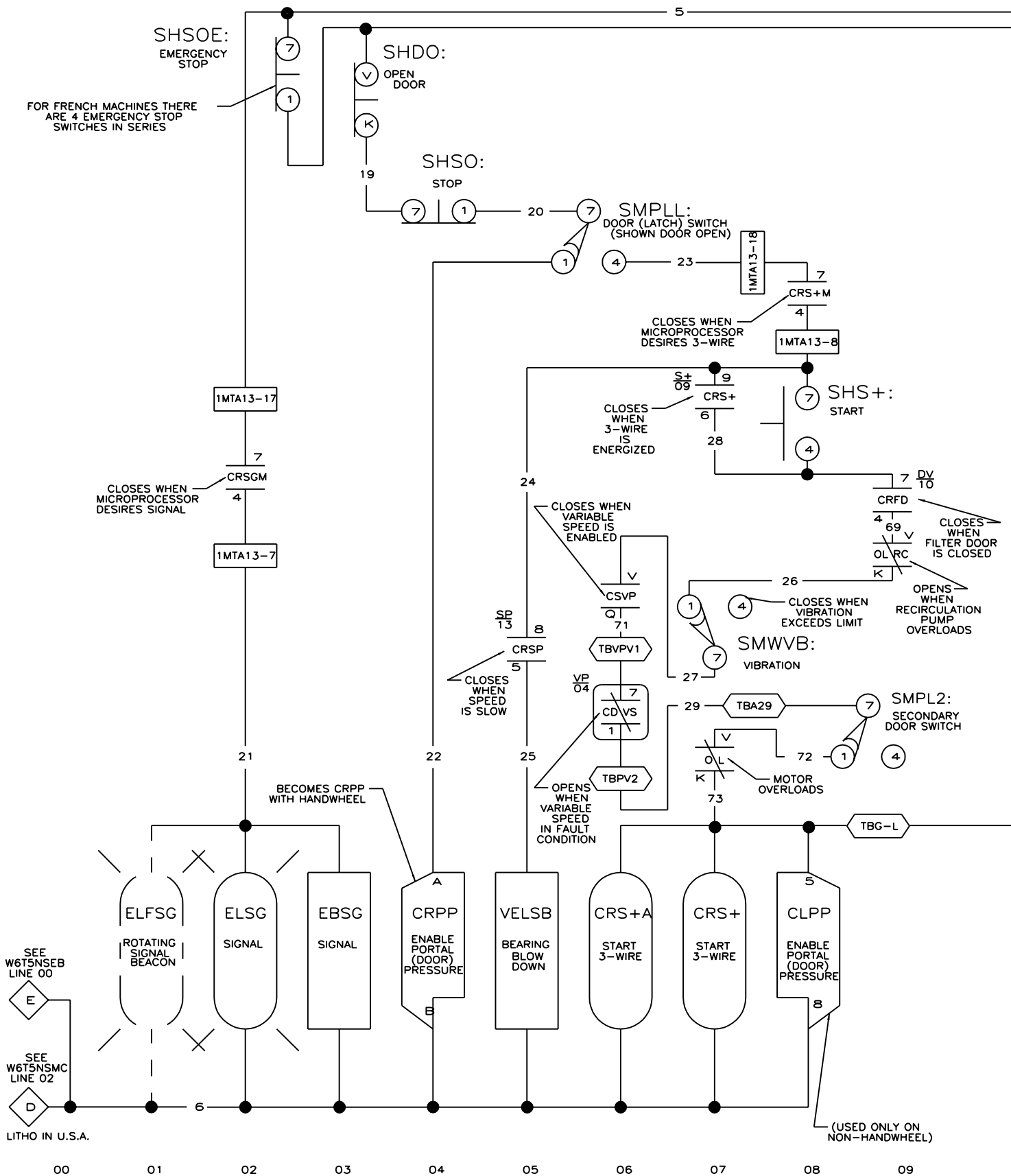
MICRO 6 SYSTEMS MARK V CONTROLS SCHEMATIC: RAISE HOUSE (HYDRAULIC)

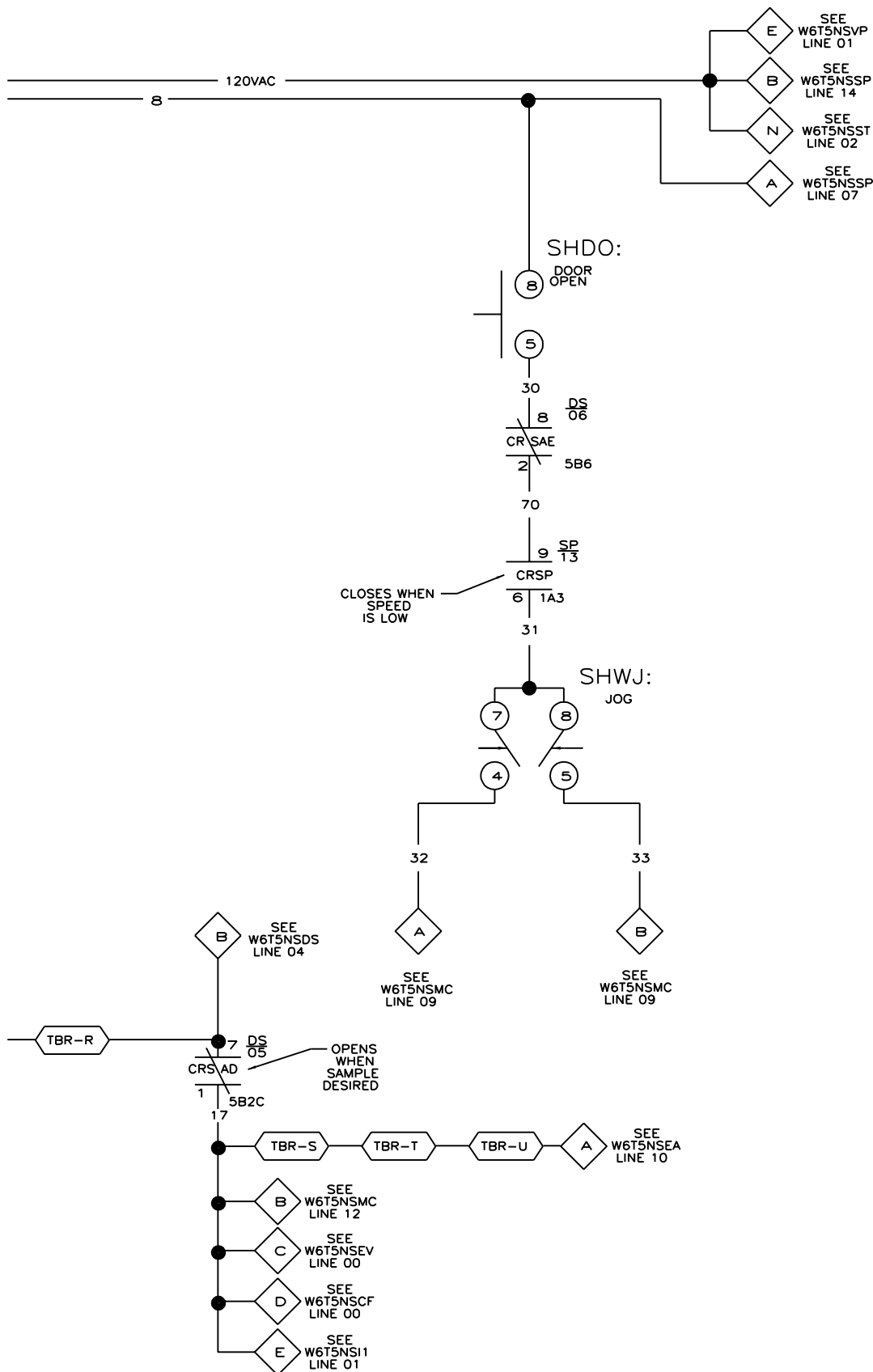
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

SP04 SP03
I207

RGA07 RGA05

RGA12 RGA16
I105 S+09
DV07 RGA05





W6T5NSS+

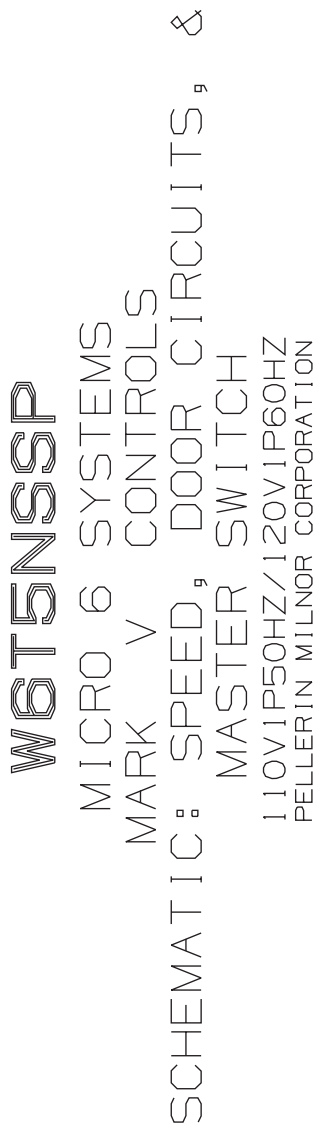
MICRO 6 SYSTEMS

MARK V CONTROLS

SCHEMATIC: START CIRCUIT

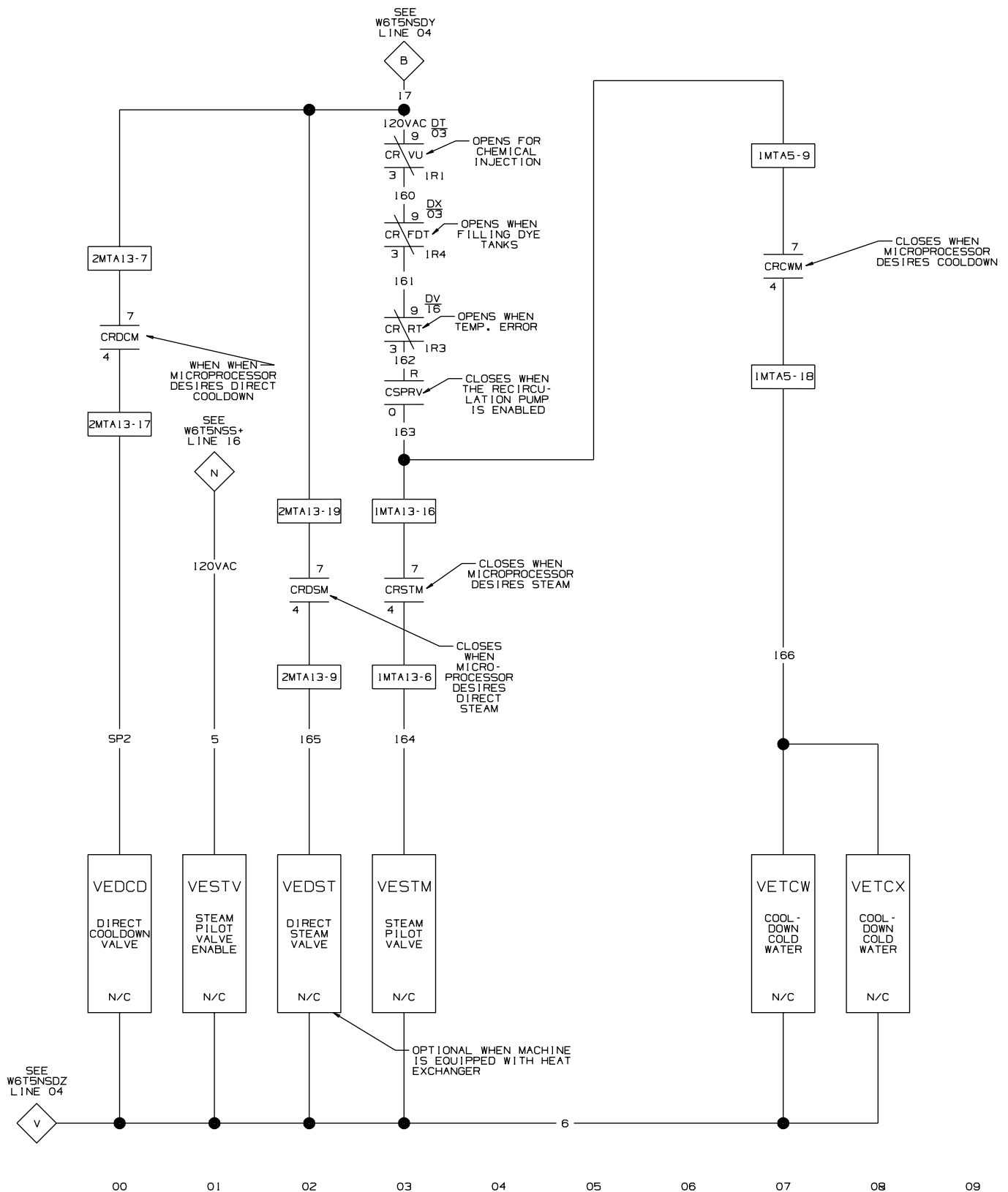
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION





NOTES:

1. TBR IS LOCATED IN LOW VOLTAGE CONTROL BOX.

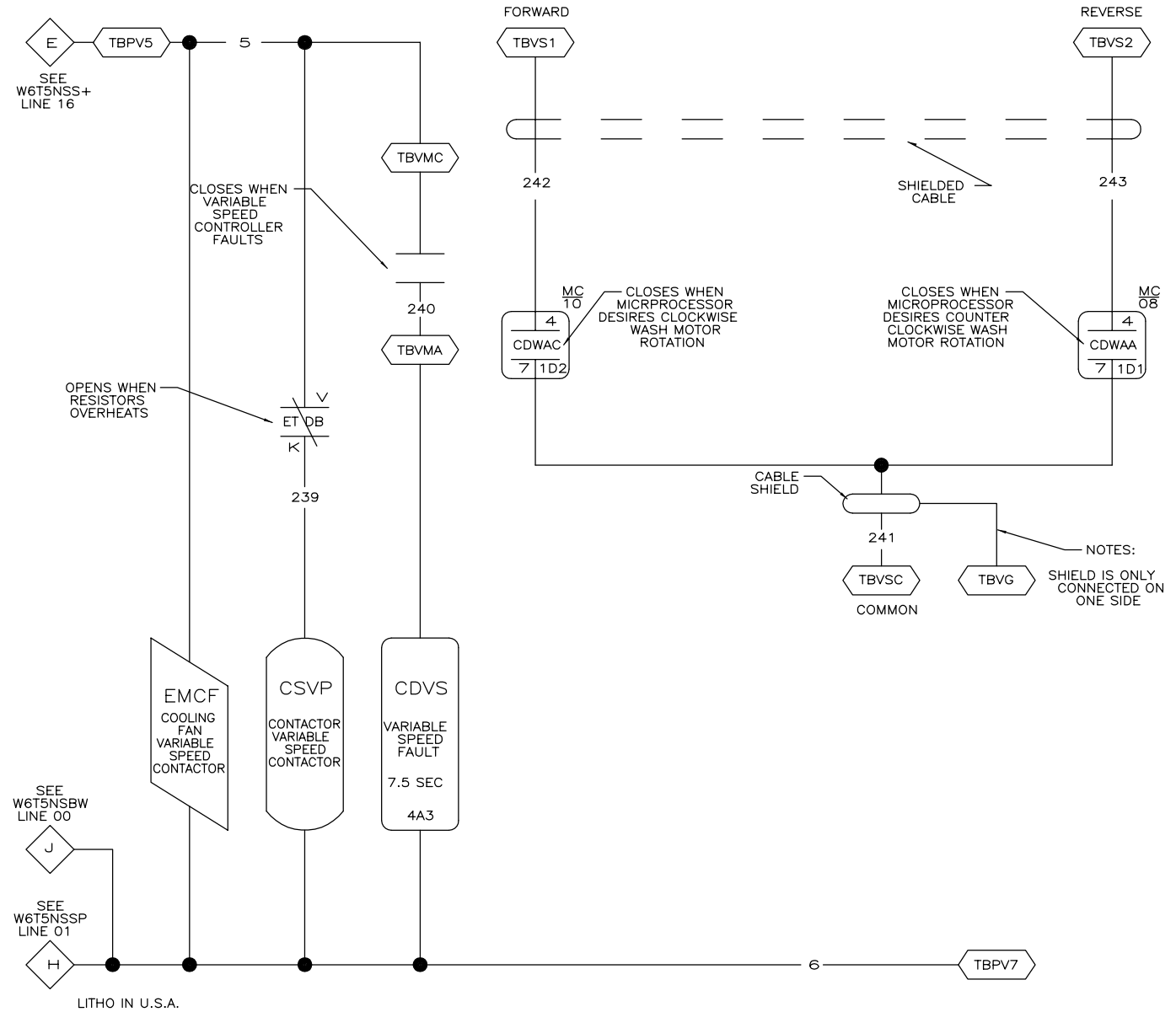
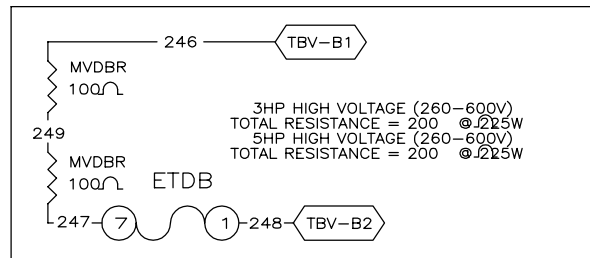
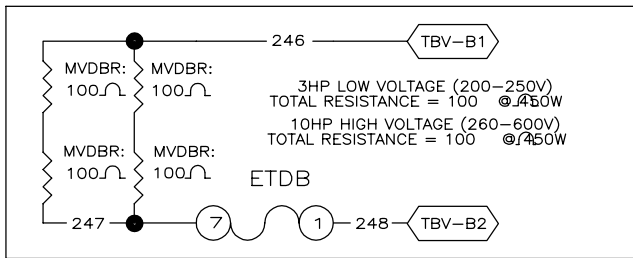
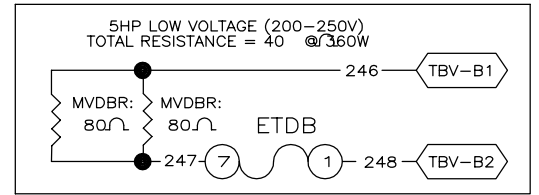
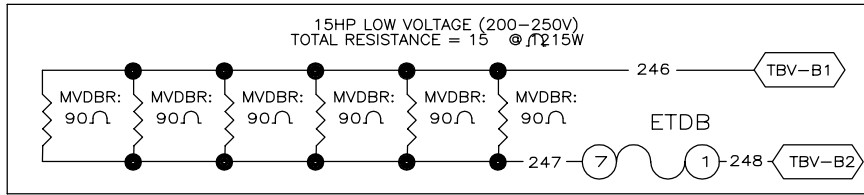


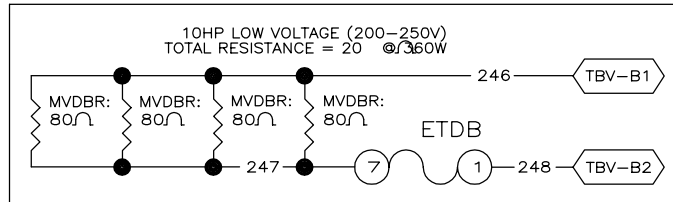
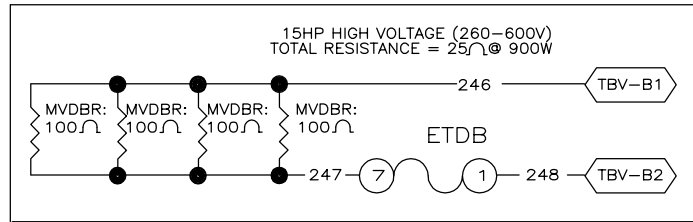
NOTES:

1. 1MTA5 IS LOCATED ON B10-1 (8 OUTPUT - 16 INPUT BOARD).
2. 2MTA13 IS LOCATED ON B024-2 (24 OUTPUT BOARD).

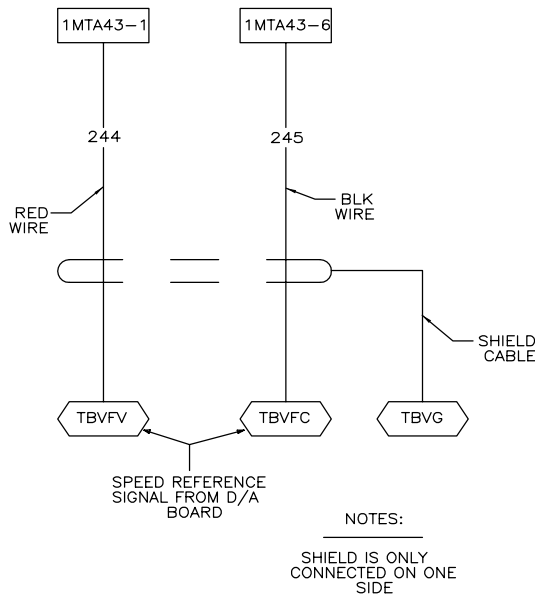
W6T5NSST
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: STEAM & COOLDOWN
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

S+08
1208





W6T5NSVP
2008395B



NOTES:

1. TBV IS LOCATED IN VARIABLE SPEED CONTROLLER BOX ON VARIABLE SPEED CONTROLLER.
2. TBV-FV IS LOCATED IN VARIABLE SPEED CONTROLLER BOX.
3. 1MTA43 IS LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).

W6T5NSVP

MICRO 6 SYSTEMS

MARK V CONTROLS

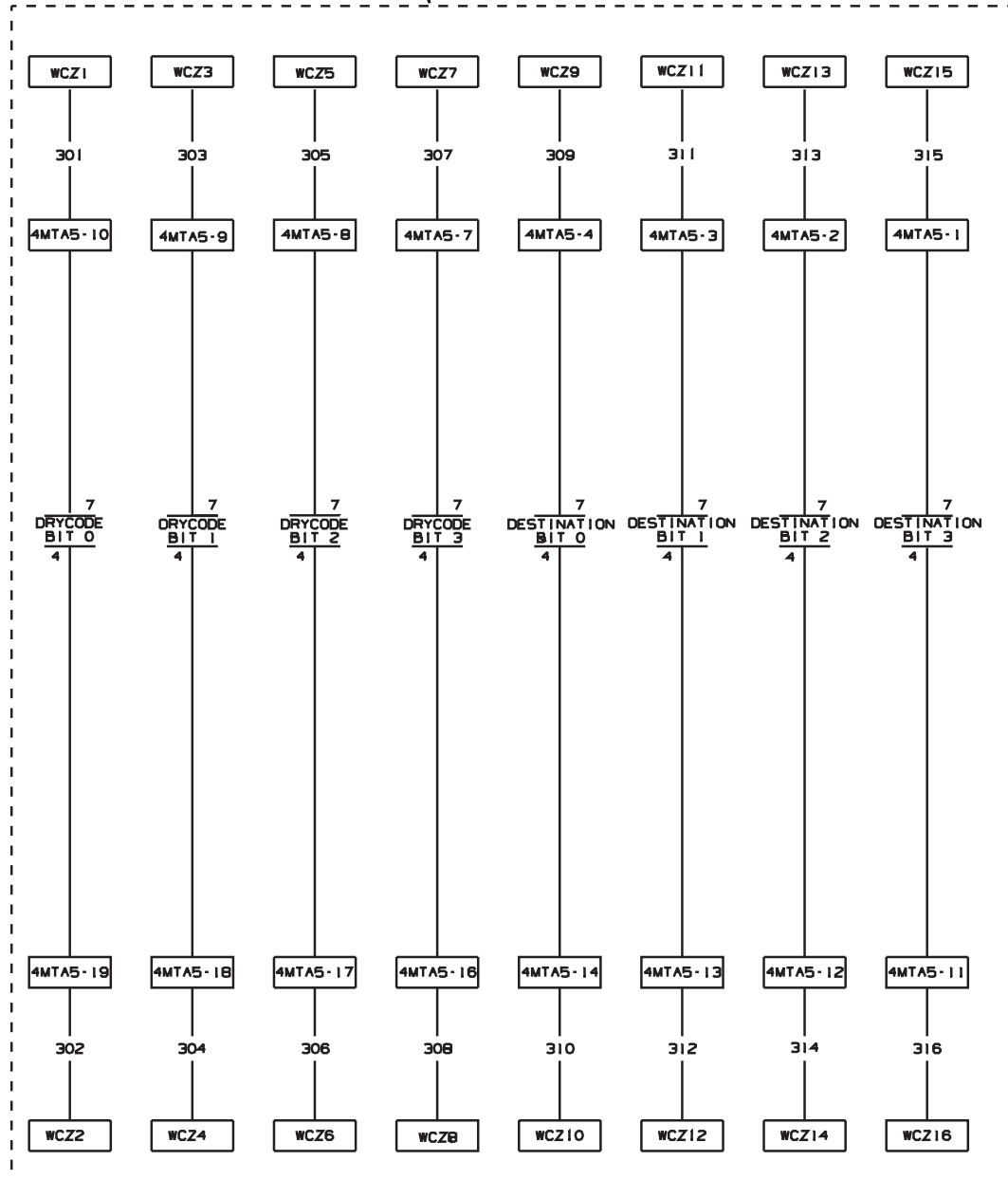
SCHEMATIC: VARIABLE SPEED CONTROLLER (505)

PELLERIN MILNOR CORPORATION

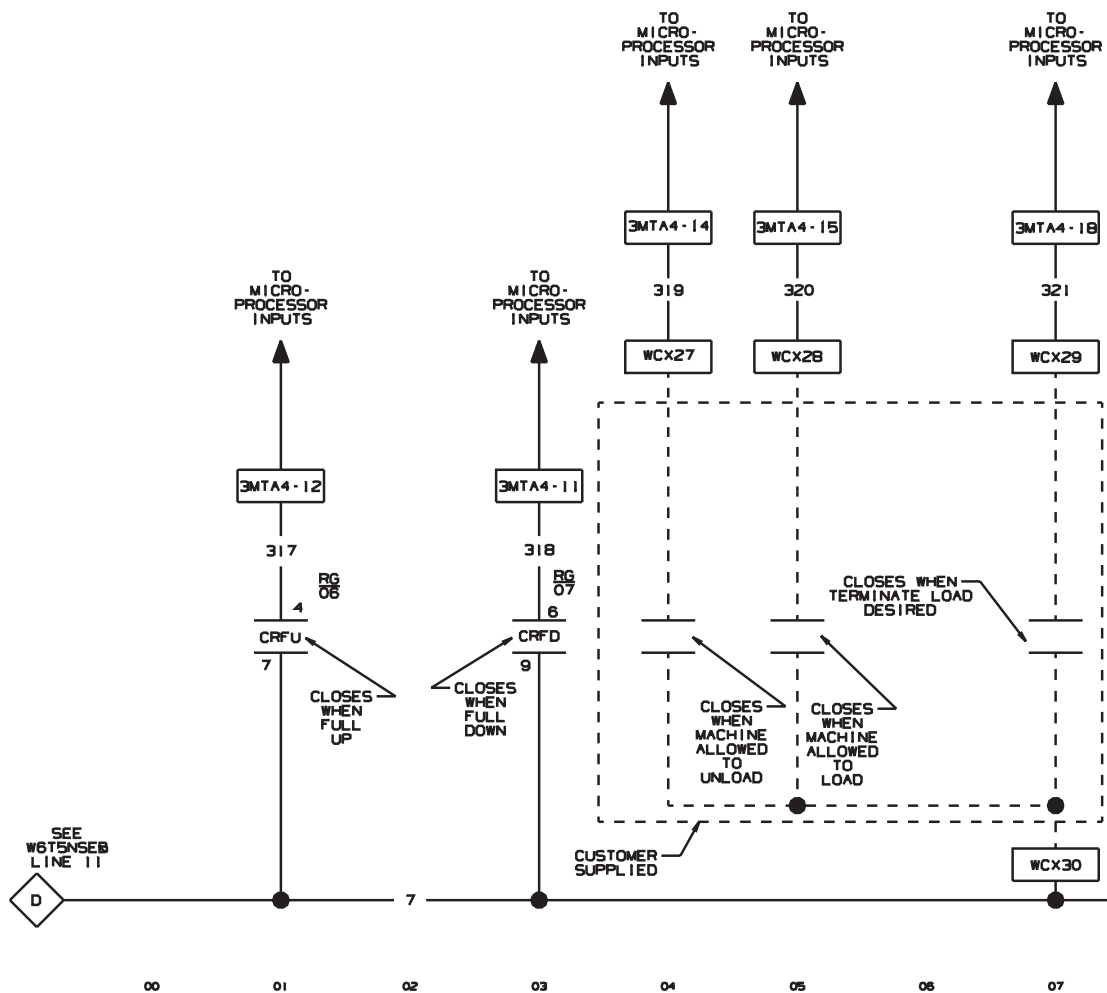
Section

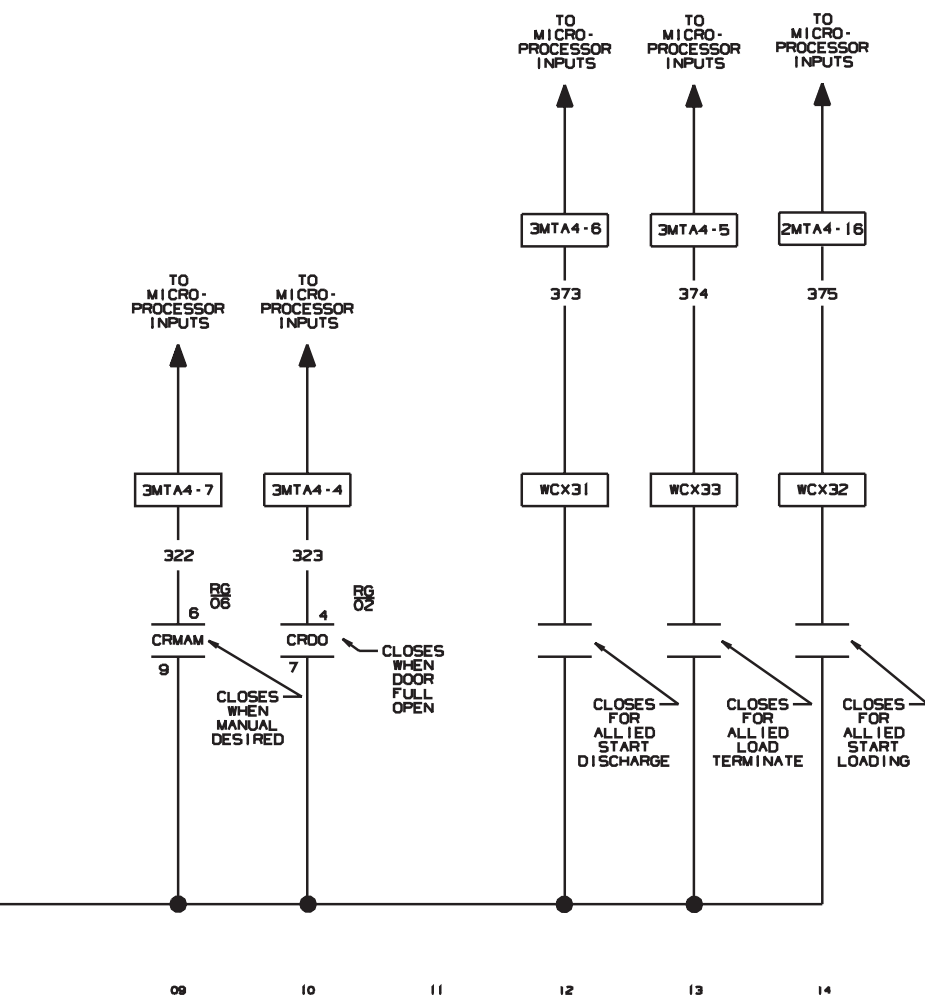
Additional Diagrams for Auto. Load/Unload (WTB+)

ALLIED
DATA PASS
OPTION



W6T5NADP
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC: ALLIED DISCHARGE
PELLERIN MILNOR CORPORATION





W6T5NA13

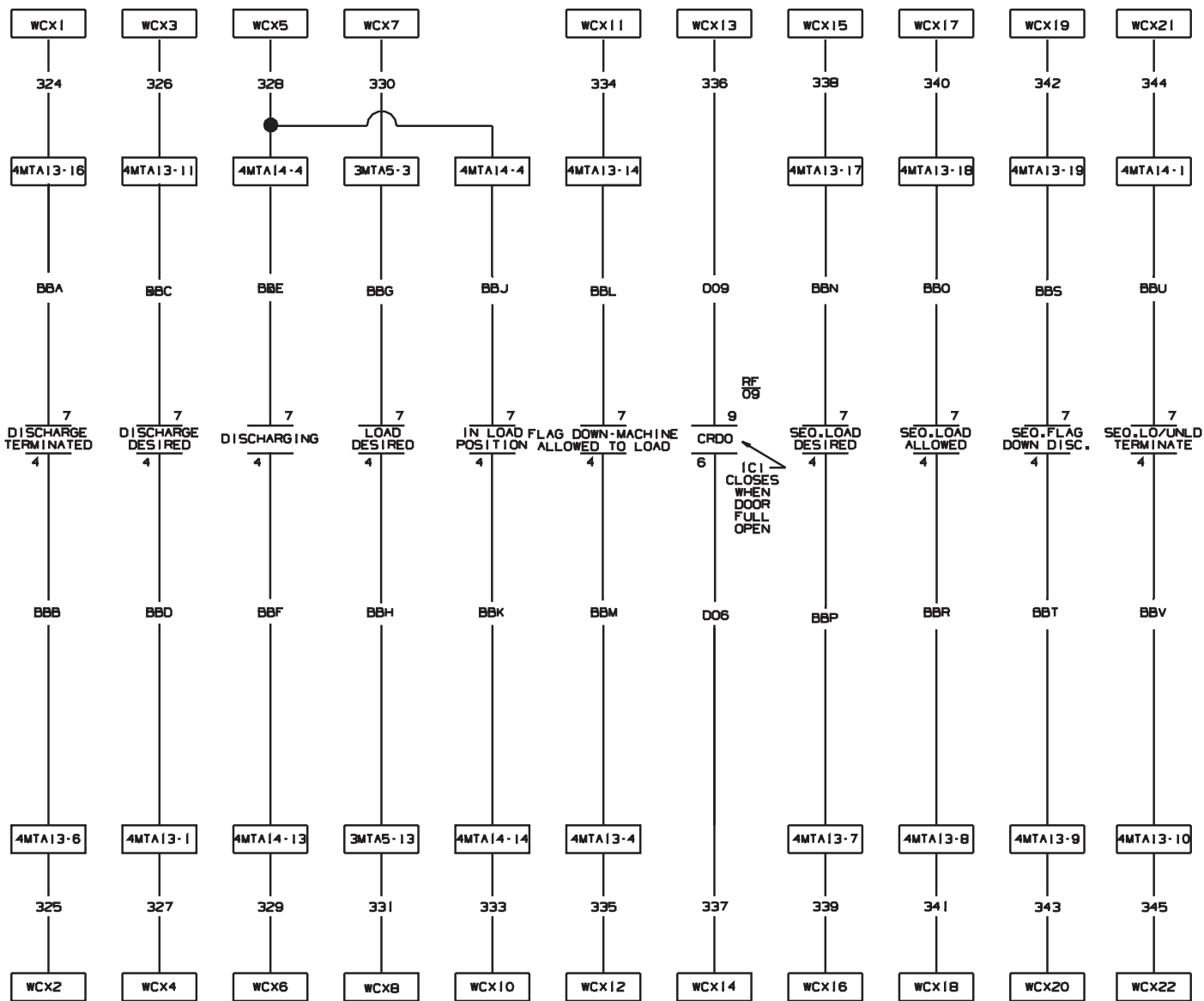
MICRO 6 SYSTEMS SERIAL CONTROLS

MARK V WTB+

SCHEMATIC: MICROPROCESSOR INPUTS

AUTOMATIC LOADING

PELLERIN MILNOR CORPORATION



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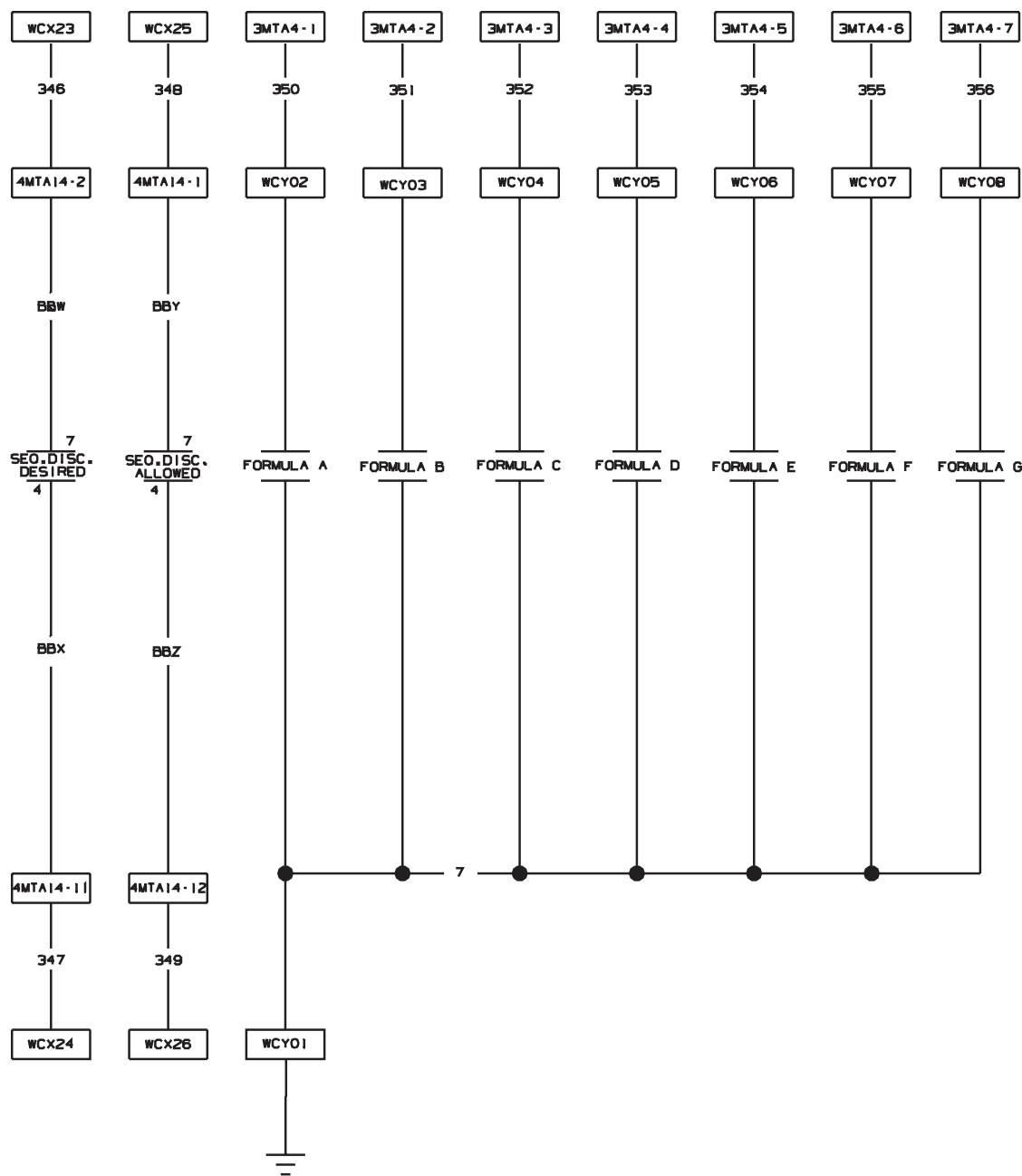
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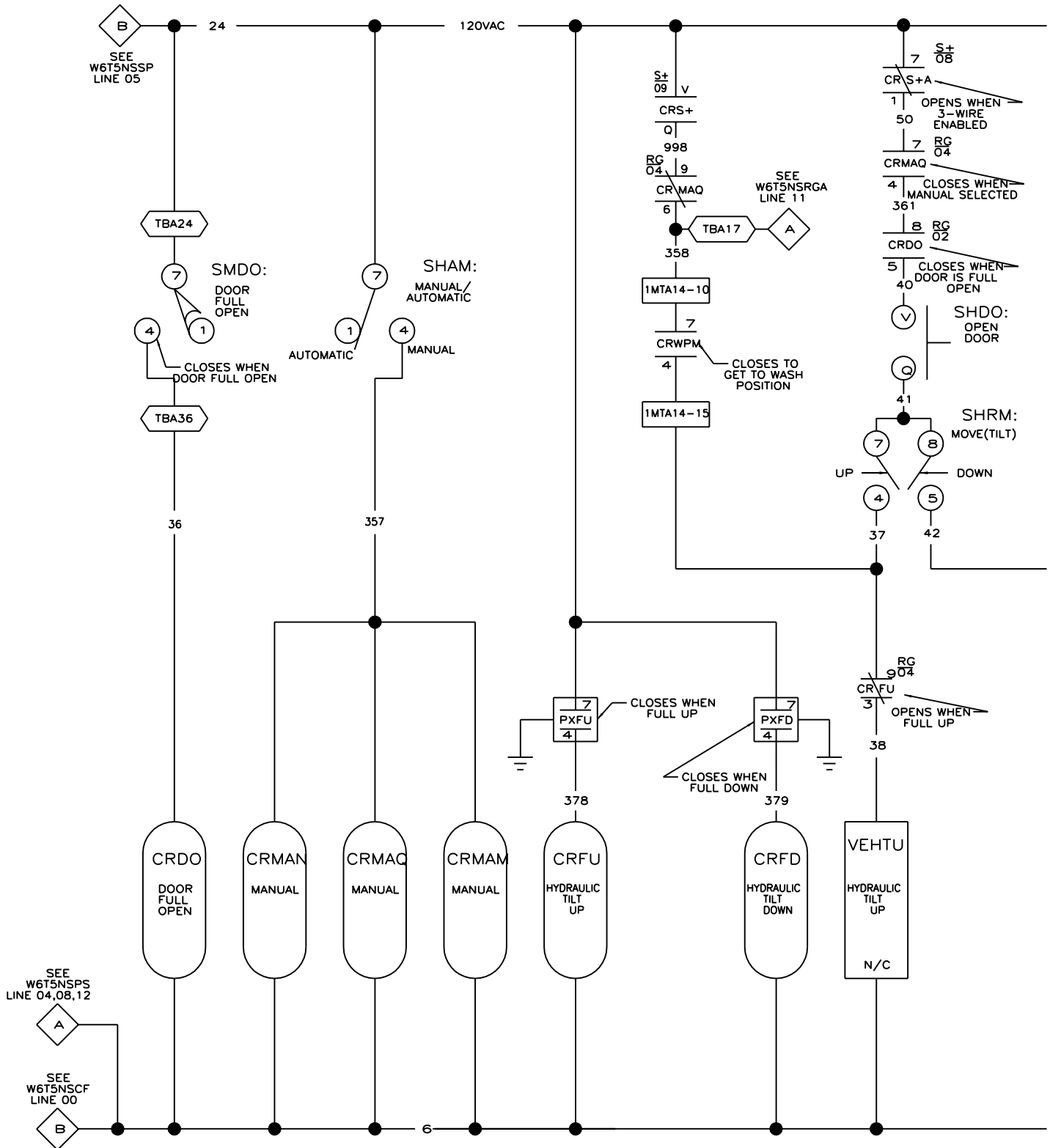
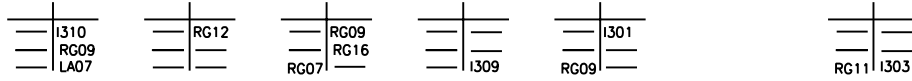
W6T5NALA

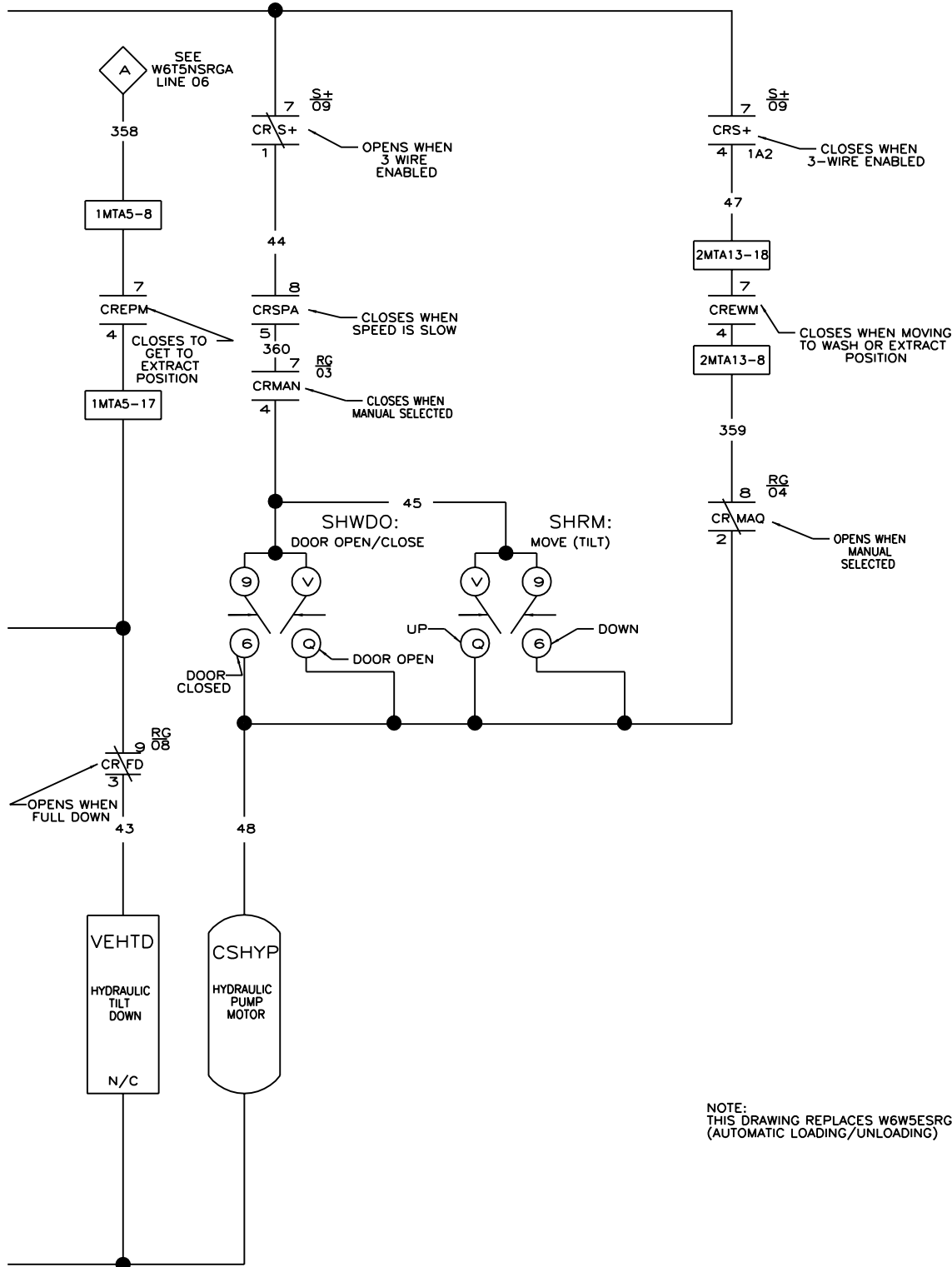
MICRO 6 SYSTEMS

MARK V CONTROLS

SCHEMATIC: AUTOMATIC LOADING OUTPUTS

PELLERIN MILNOR CORPORATION

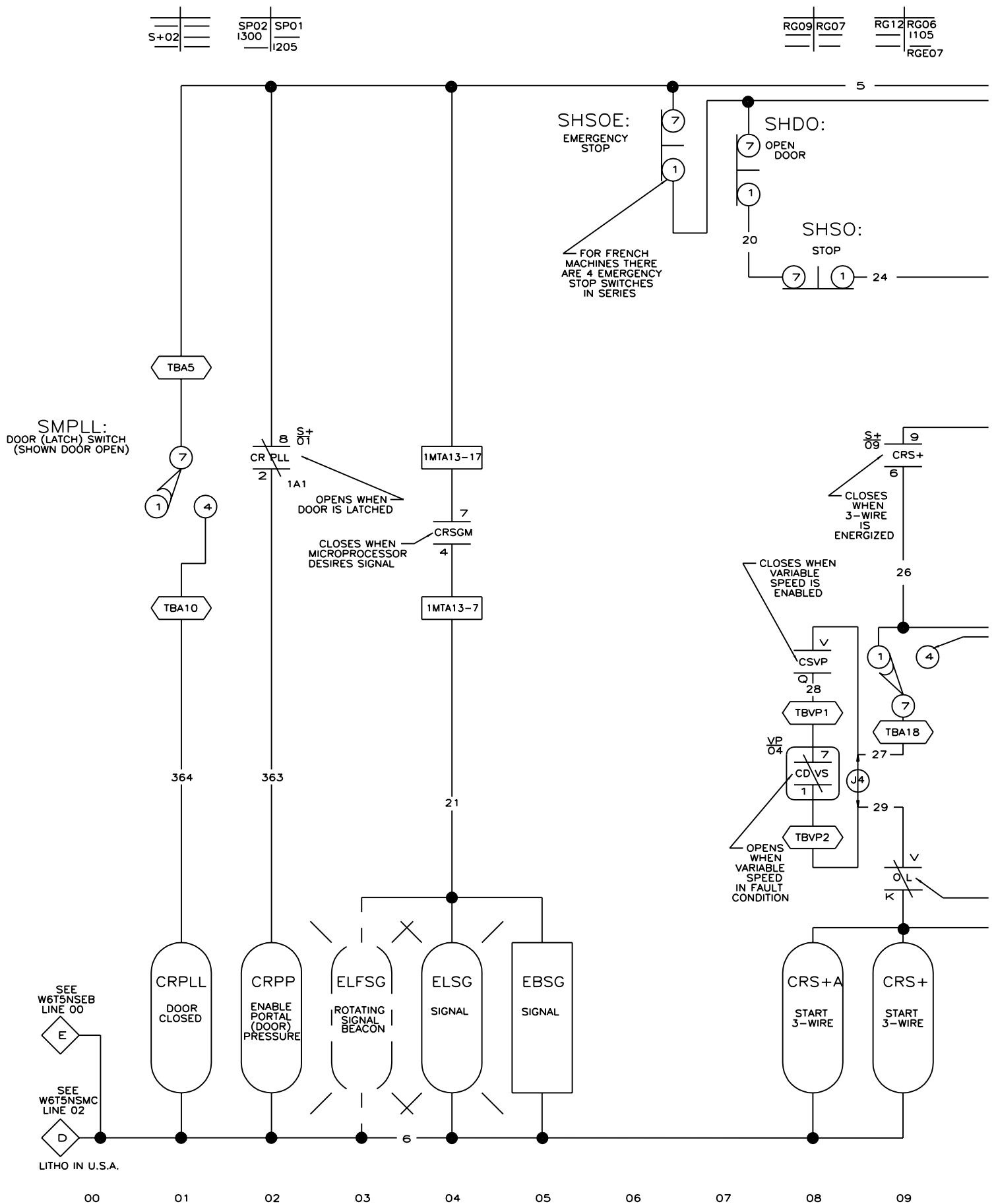


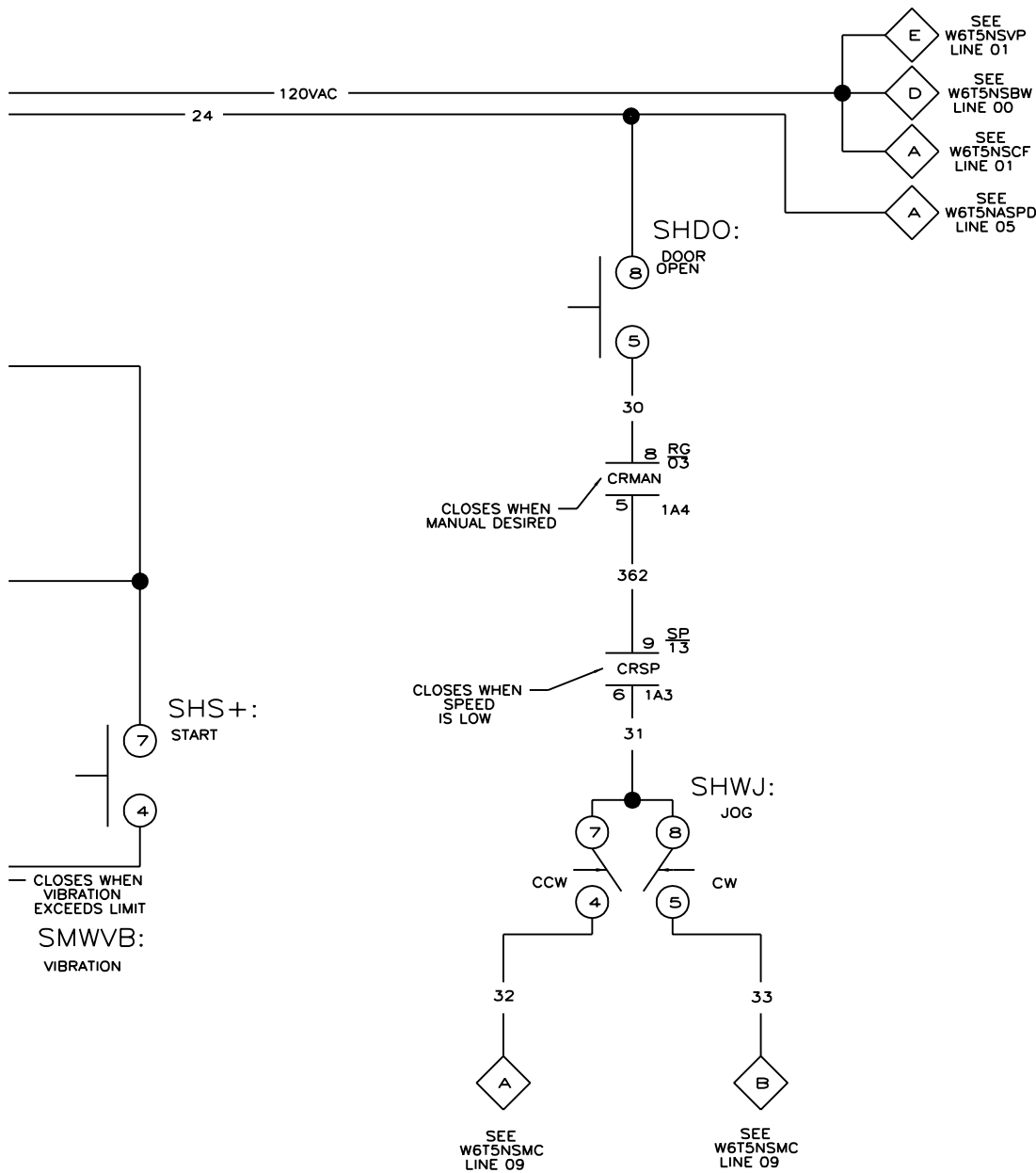


W6T5NARGA

MICRO 6 SYSTEMS SERIAL CONTROLS
MARK V WTB+
SCHEMATIC: RAISE HOUSE (HYDRAULIC)
FOR AUTOMATIC LOADING/UNLOADING
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTE:
THIS DRAWING REPLACES W6W5ESRGA FOR WTB+ CONTROLS
(AUTOMATIC LOADING/UNLOADING)





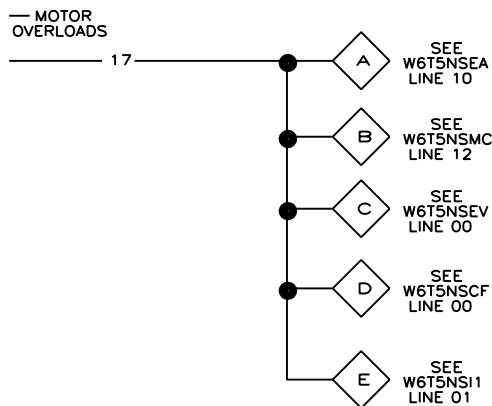
W6T5NAS+

MICRO 6 SYSTEMS

MARK V WTB+ WITH DRYEL

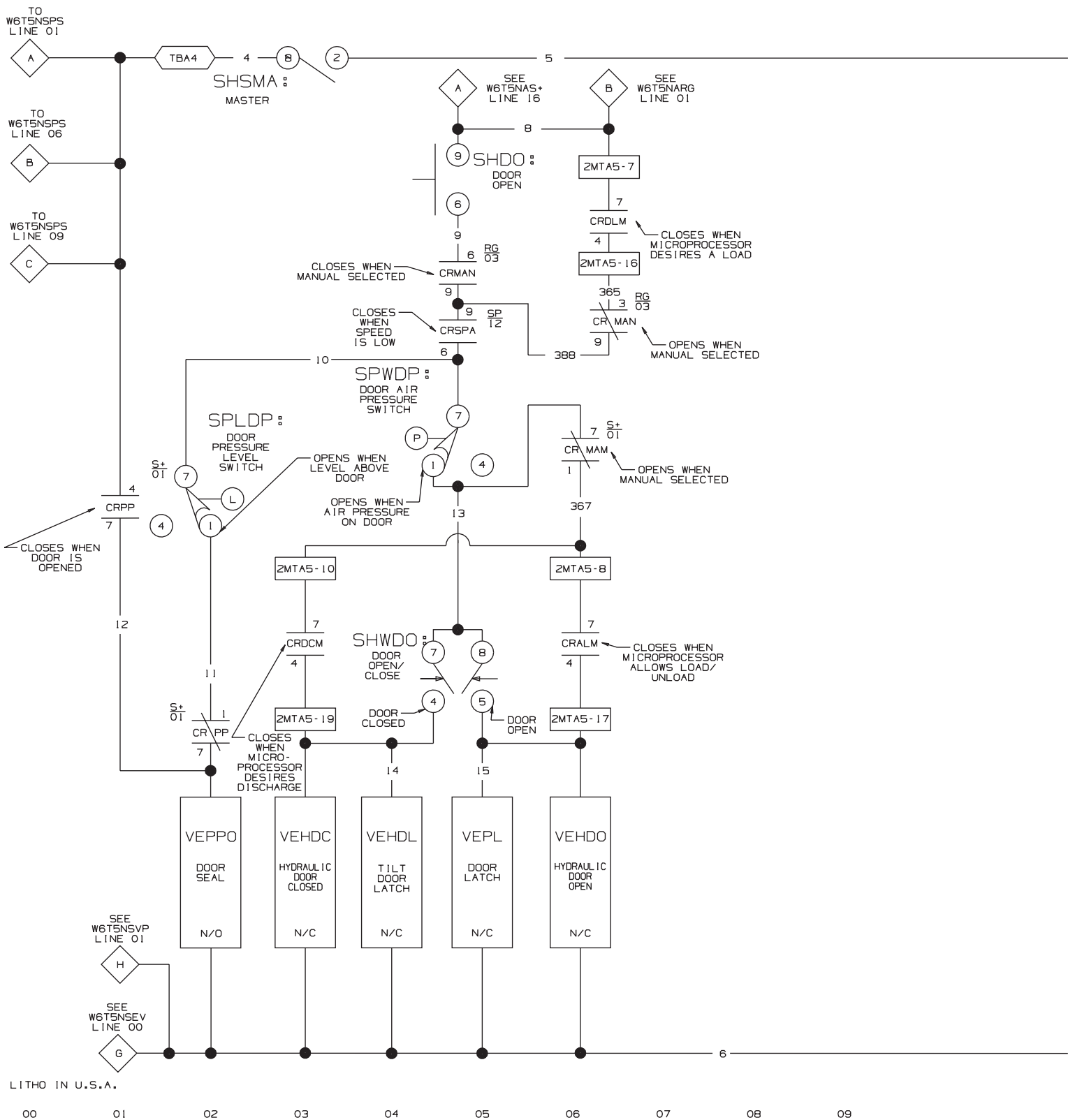
SCHEMATIC: START CIRCUIT FOR AUTOMATIC LOADING/UNLOADING

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

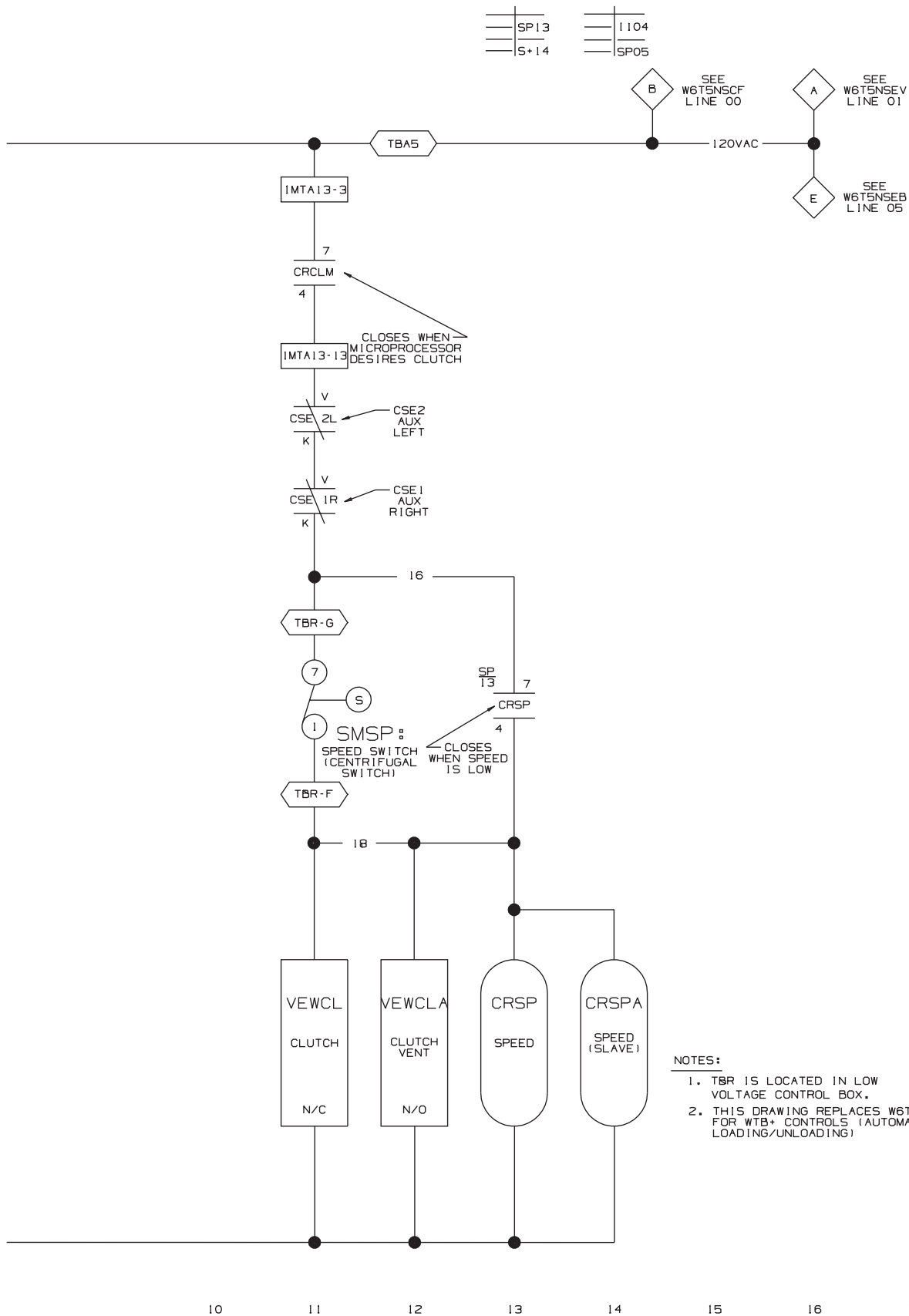


NOTES:

1. REMOVE (J4) FOR VARIABLE SPEED
OPTION.
2. THIS DRAWING REPLACES W6T5NSS+
FOR WTB+ CONTROLS (AUTOMATIC
LOADING/UNLOADING) WITH DRYEL



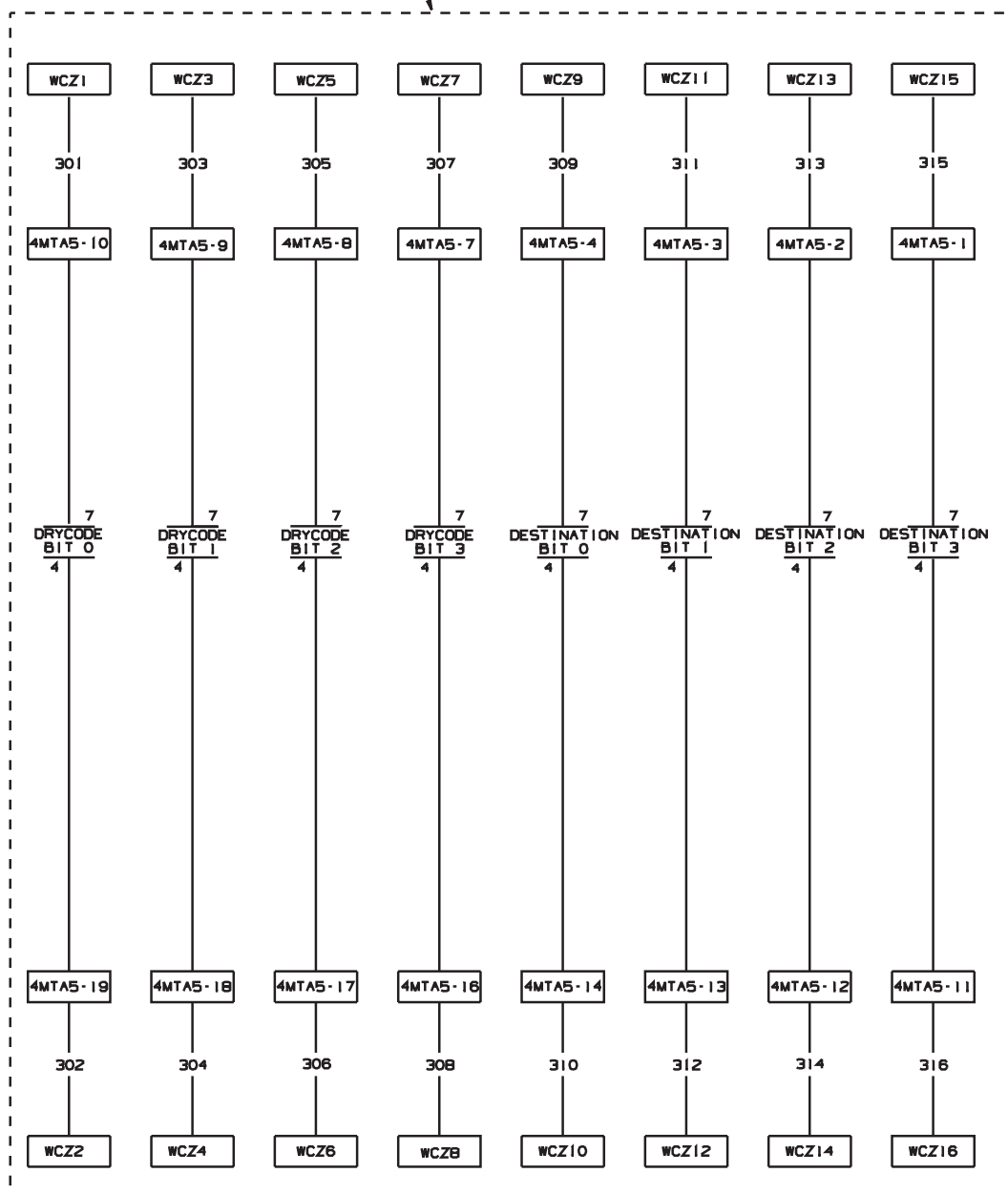
LITHO IN U.S.A.



W6T5NASP
MICRO 6 SYSTEMS
MARK V WTB+
SCHEMATIC: SPEED, DOOR CIRCUITS, & MASTER
SWITCH FOR AUTOMATIC LOADING
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

Section**Additional Diagrams
for Dryel Load/Unload
(WTB+)**

ALLIED
DATA PASS
OPTION



00

01

02

03

04

05

06

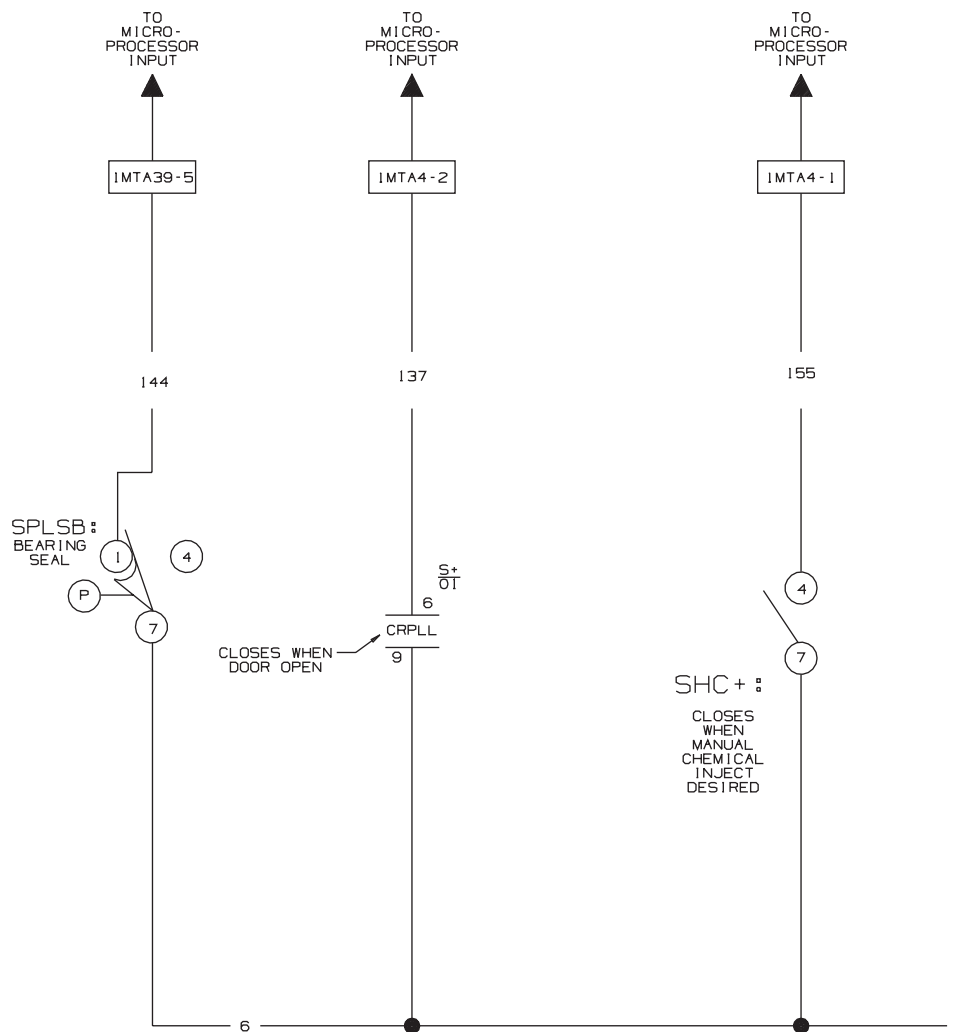
07

08

09

NOTES:
REPLACES W6T5NADP
FOR WTB+ WITH DRYEL

W6T5NADPD
MICRO 6 SYSTEMS
MARK V WTB+ WITH DRYEL
SCHEMATIC: ALLIED DISCHARGE
PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

00

01

02

03

04

05

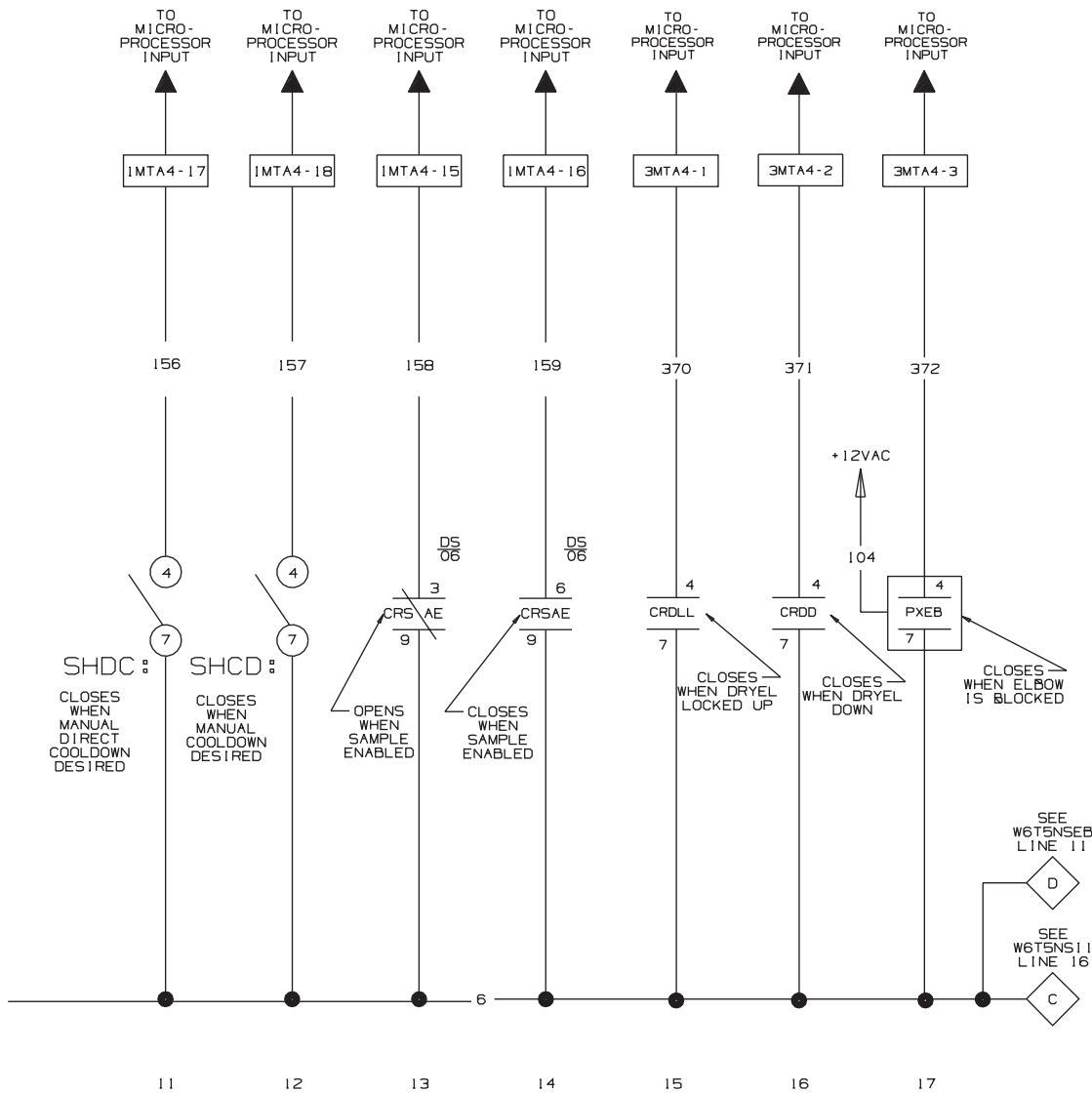
06

07

08

09

10



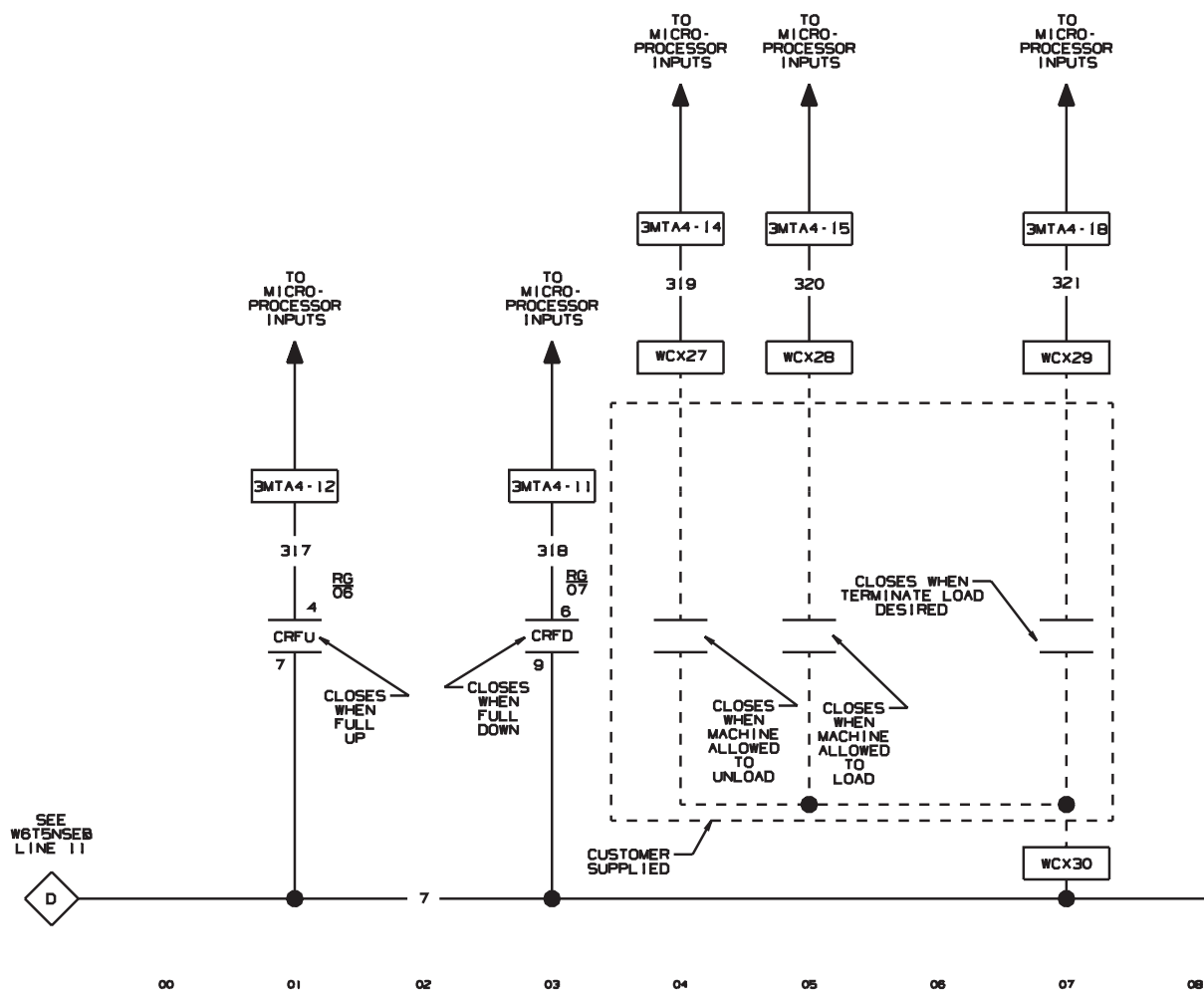
W6T5NA12D

MICRO 6 SYSTEMS

MARK V WTB+ WITH DRYEL

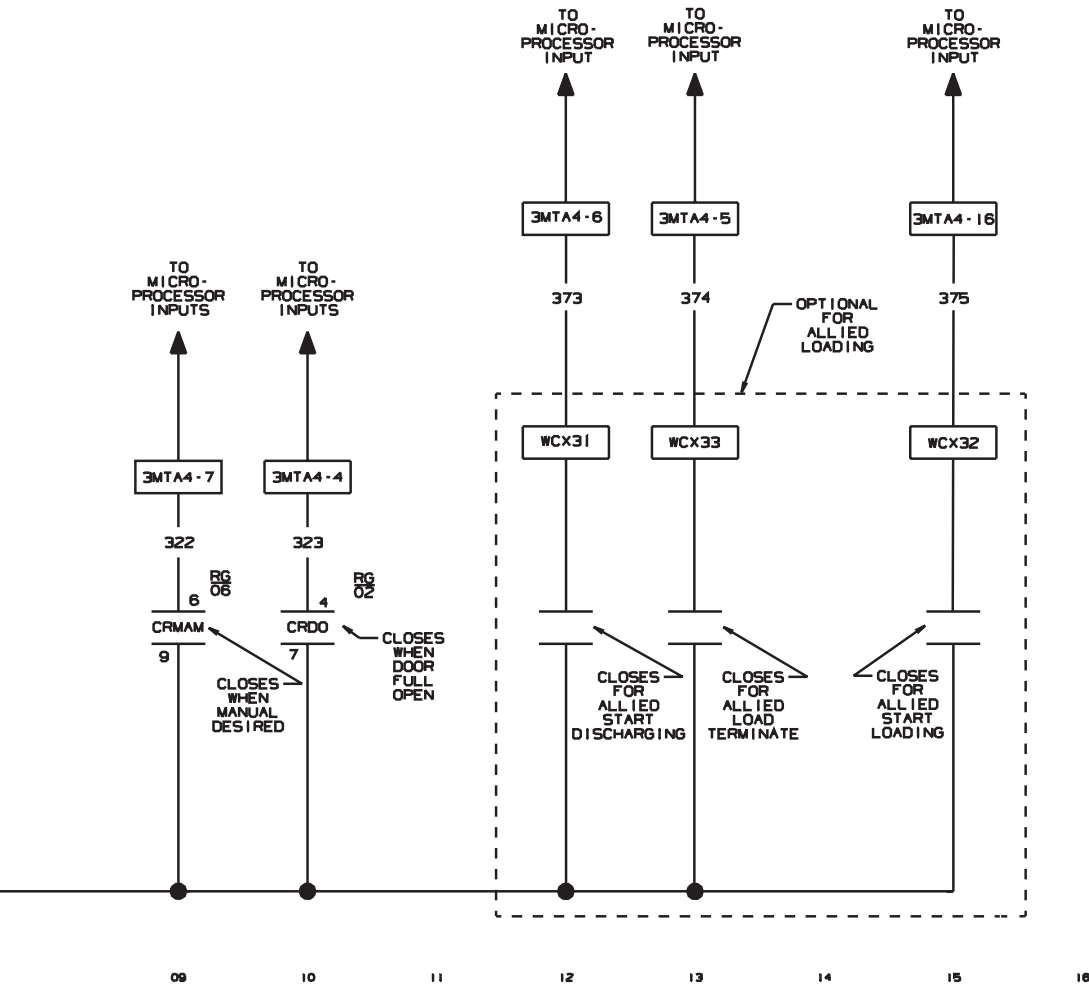
SCHEMATIC: MICROPROCESSOR INPUTS

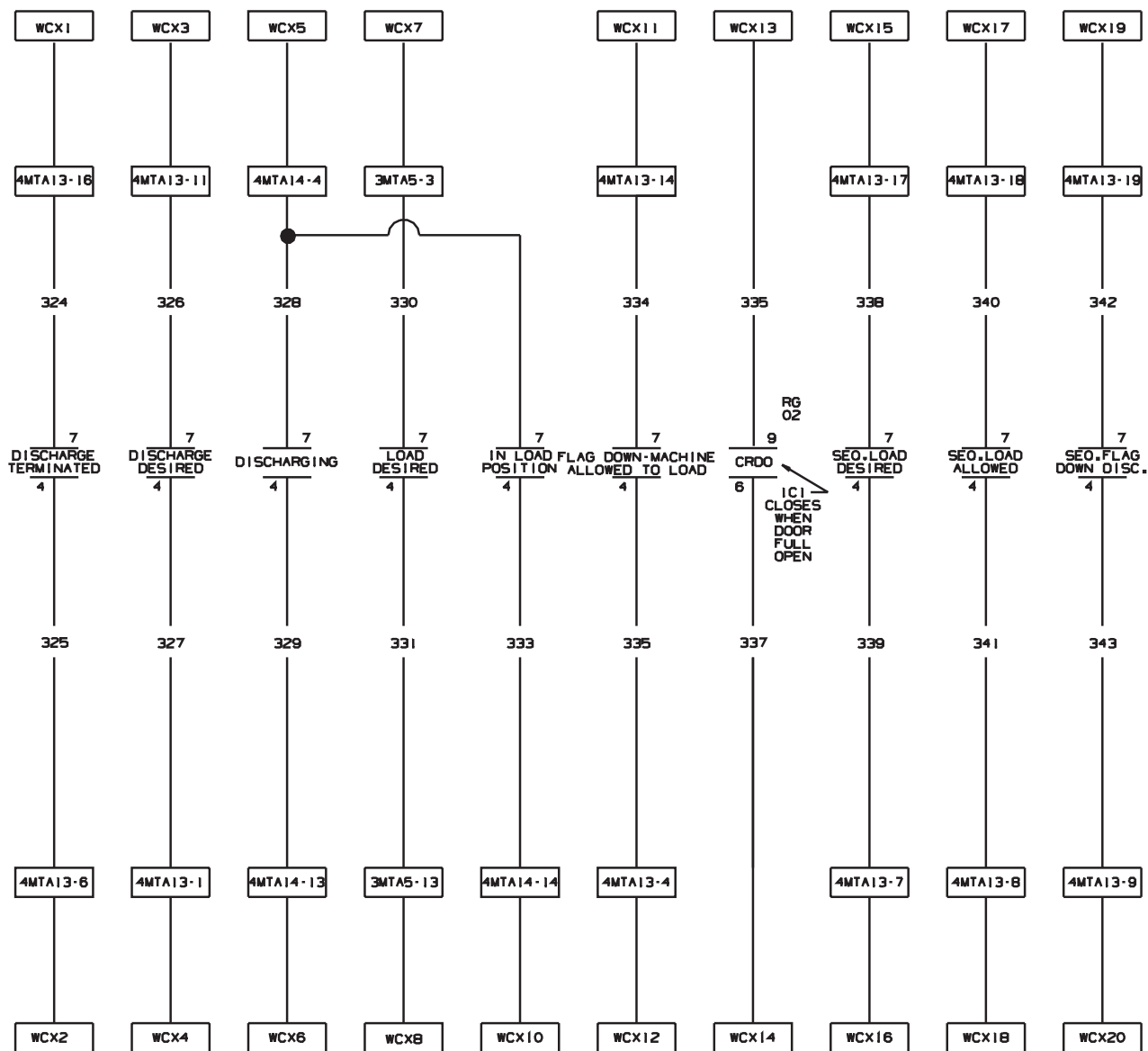
PELLERIN MILNOR CORPORATION



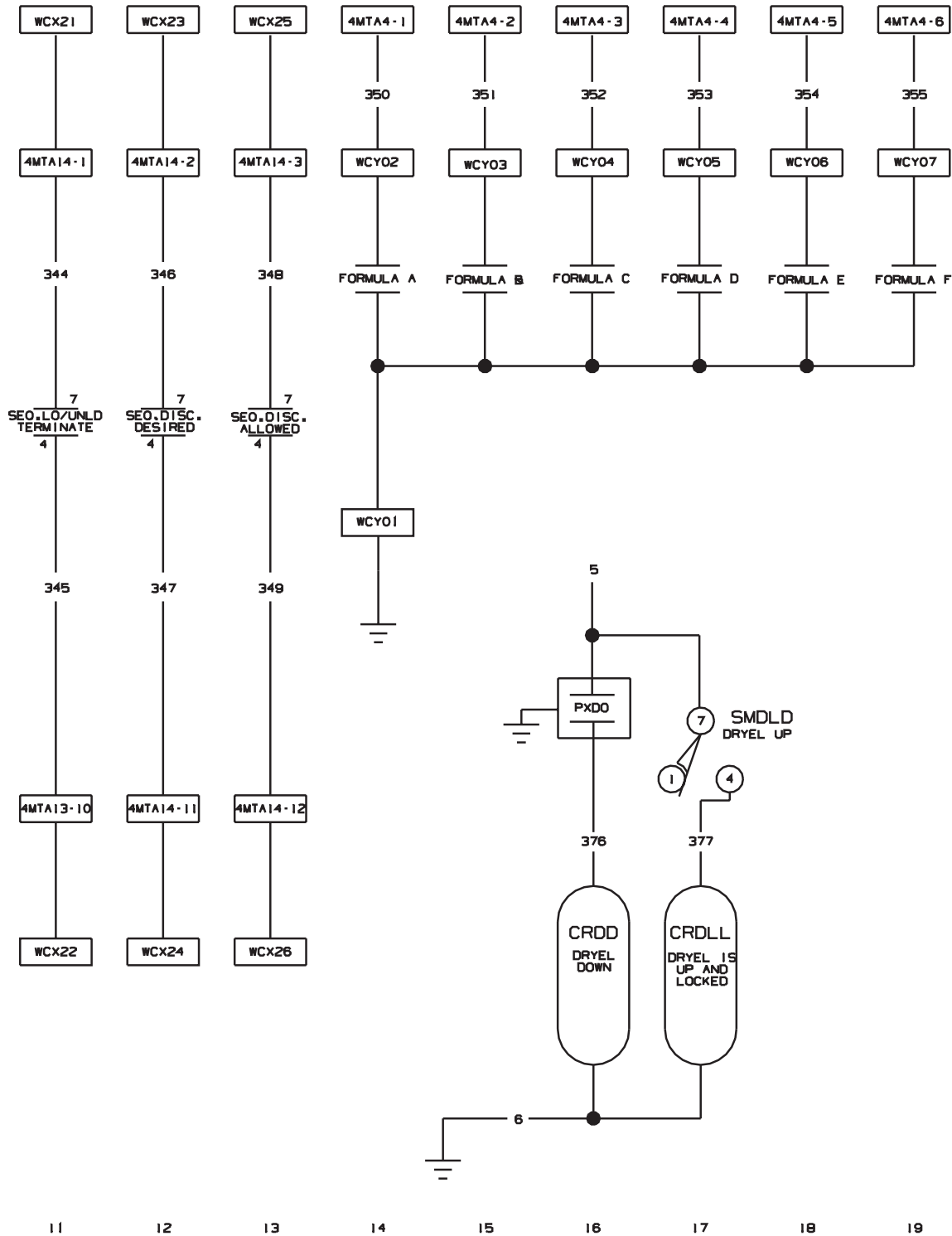
W6T5NAI3D

MICRO 6 SYSTEMS
MARK V WTB+ WITH DRYEL
SCHEMATIC: MICROPROCESSOR INPUTS
AUTOMATIC LOADING
PELLERIN MILNOR CORPORATION





00 01 02 03 04 05 06 07 08 09 10



W6T5NALAD
MICRO 6 SYSTEMS
MARK V WTB+ WITH DRYEL
SCHEMATIC: AUTOMATIC LOADING OUTPUTS
PELLERIN MILNOR CORPORATION

I310
RGE09
LA07

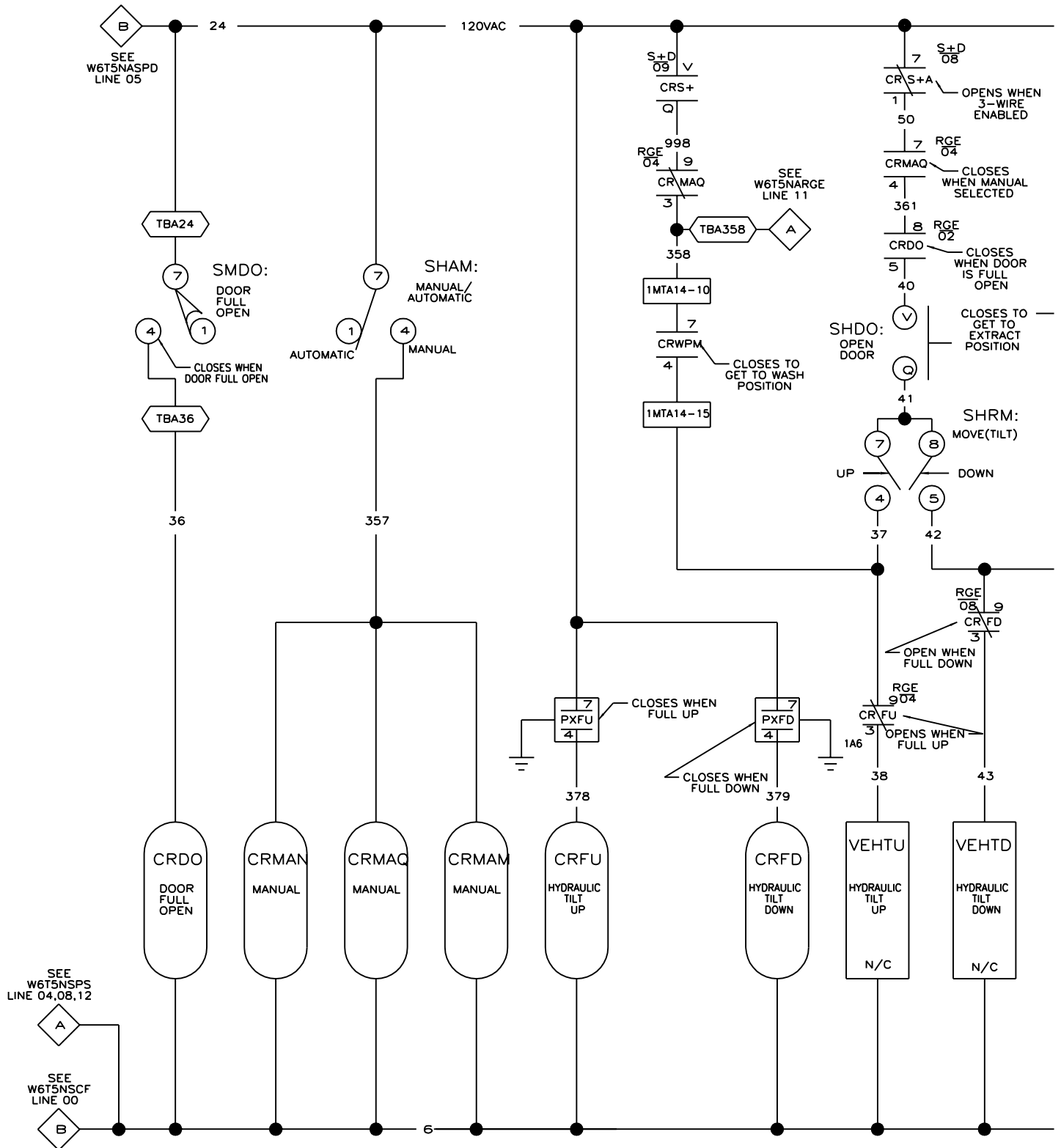
RGE12

RGE09
RGE16
RGE07

I309

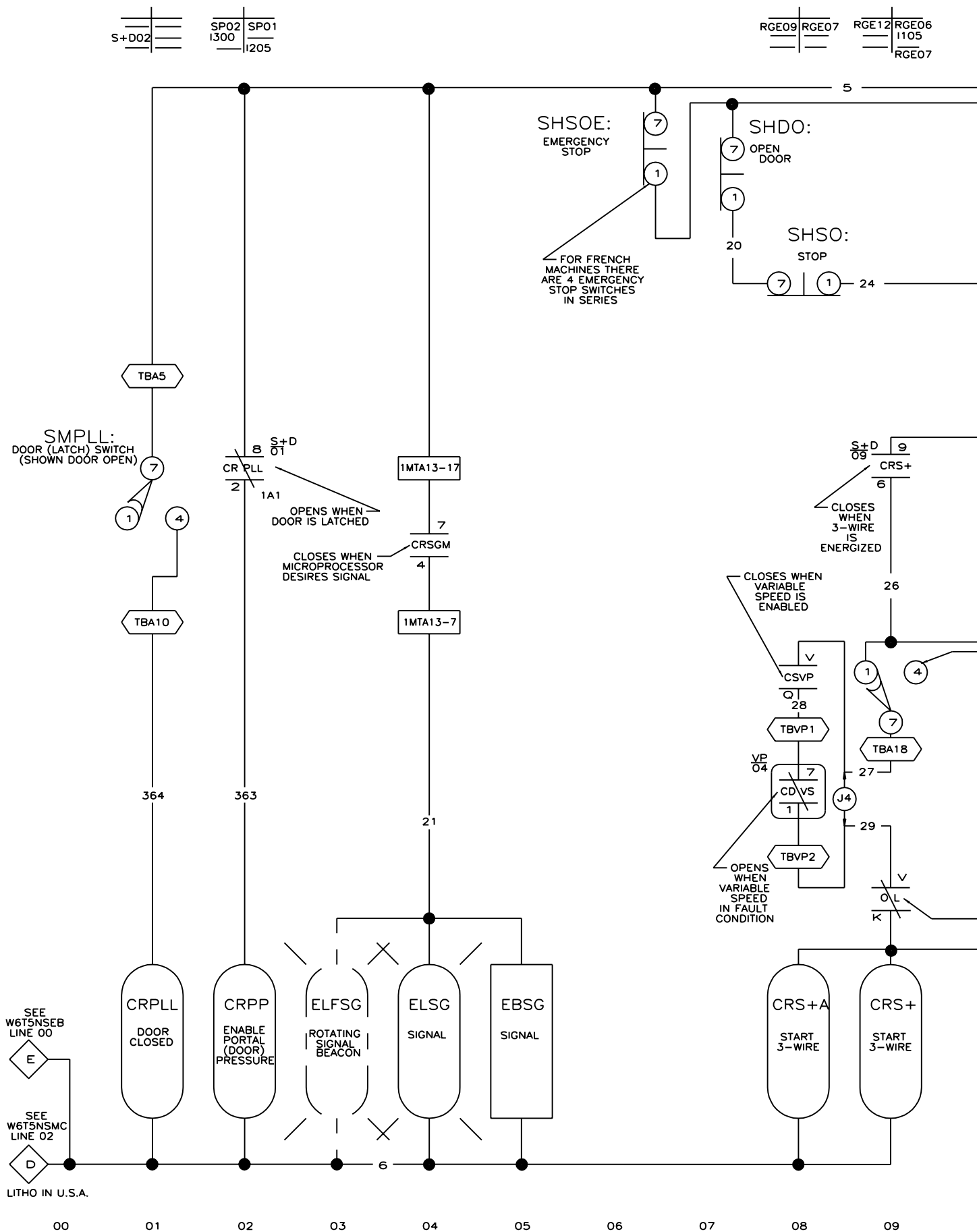
I301
RGE09

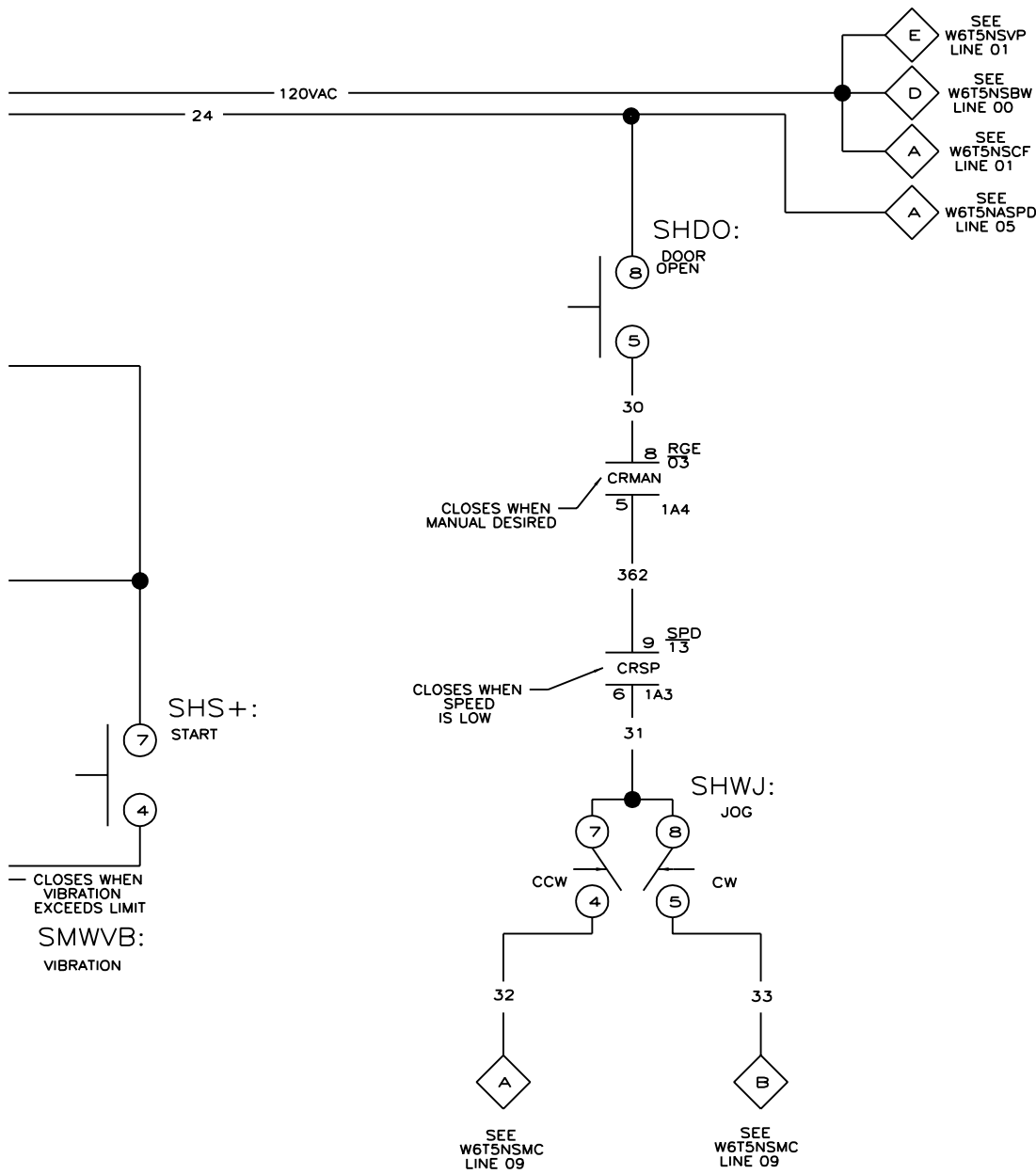
RGE17
RGE11 I303





NOTES:
THIS DRAWING REPLACES
W6T5NSRGA FOR WTB+
CONTROLS (AUTOMATIC
LOADING/UNLOADING) WITH DRYL.





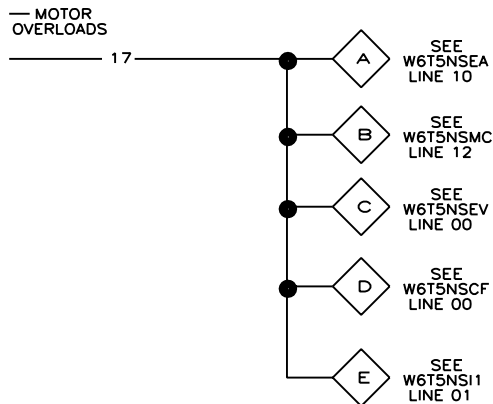
W6T5NAS+D

MICRO 6 SYSTEMS

MARK V WTB+ WITH DRYEL

SCHEMATIC: START CIRCUIT FOR AUTOMATIC LOADING/UNLOADING

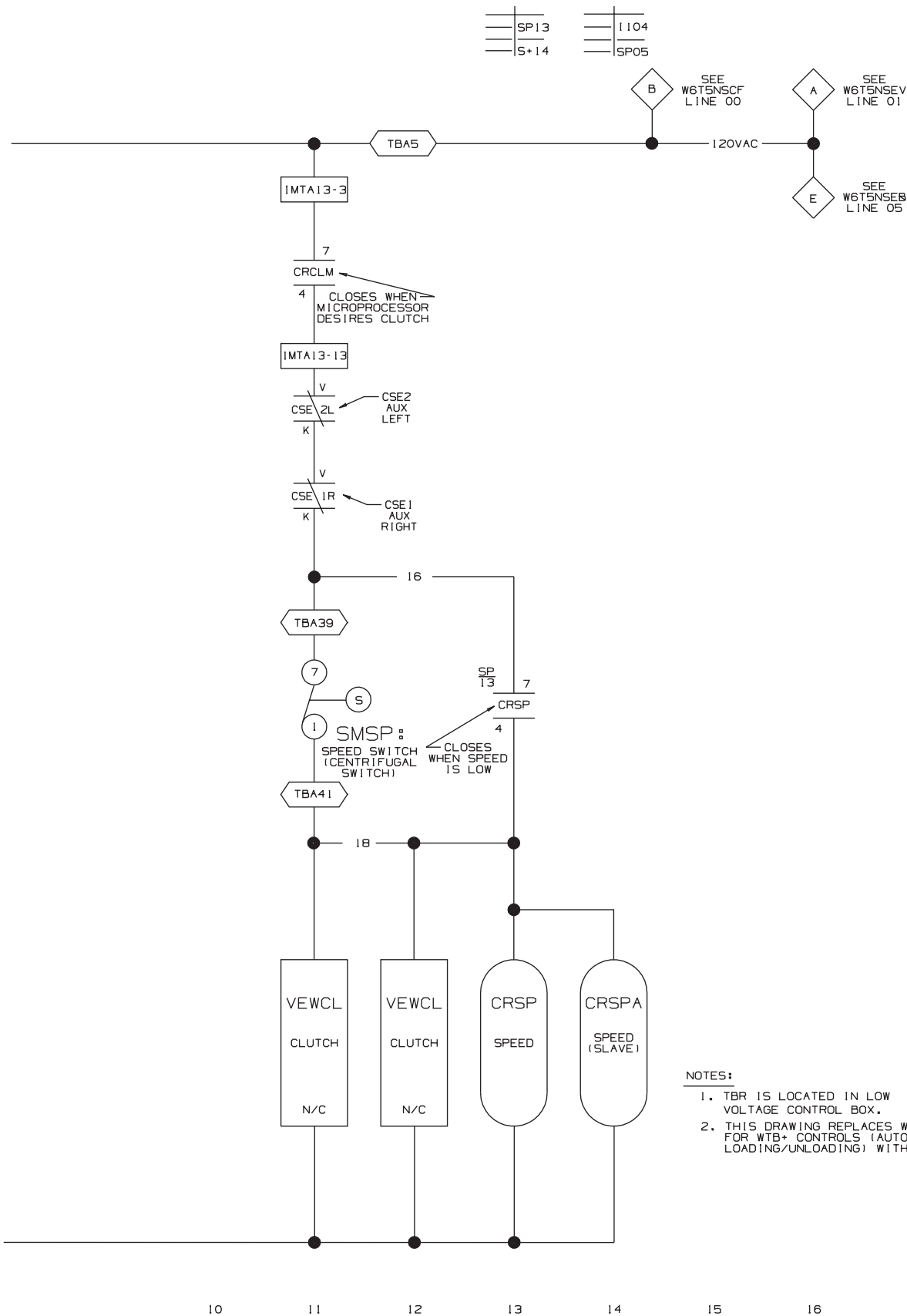
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



NOTES:

1. REMOVE (J4) FOR VARIABLE SPEED
OPTION.
2. THIS DRAWING REPLACES W6T5NSS+
FOR WTB+ CONTROLS (AUTOMATIC
LOADING/UNLOADING) WITH DRYEL





NOTES:

1. TBR IS LOCATED IN LOW VOLTAGE CONTROL BOX.
2. THIS DRAWING REPLACES W6T5NSP FOR WTB+ CONTROLS (AUTOMATIC LOADING/UNLOADING) WITH DRYEL

W6T5NASPD
 MICRO 6 SYSTEMS
 MARK V WTB+ WITH DRYEL
 SCHEMATIC: SPEED, DOOR CIRCUITS, & MASTER
 SWITCH FOR AUTOMATIC LOADING
 110V1P50HZ/120V1P60HZ
 PELLERIN MILNOR CORPORATION