

LEGEND	
	TERMINAL BLOCK
	INTERNAL PANEL WIRING
	INTERCONNECTING/MACHINE WIRING
	CONNECTION
	CONTINUES TO OR FROM LINE
	BILL OF MATERIAL ITEM#
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	CONTACT CROSS REFERENCE
	RELAY COIL
	GROUND
	FUSE BLOCK
	EMERGENCY STOP PUSH BUTTON
	PUSH BUTTON MOMENTARY
	PILOT LIGHT
	PROX SWITCH
	TEMPERATURE SWITCH
	HEATER
	SELECTOR SWITCH 2 POSITION
	BUZZER
	ANALOG INSTRUMENT
	FAN
	SELECTOR SWITCH 3 POSITION RETURN TO CENTER
	PTC THERMISTOR

CONDUCTOR COLOR AND SIZE

WIRE TYPE	COLOUR	SIZE
R90, RW90, T90 NYLON, SOOW, TEW		
CIRCUIT TYPE		
24VDC(+)	BLUE	18 AWG
24VDC(-)	BLUE/WHITE STRIPE	18 AWG
EARTH	GREEN/YELLOW STRIPE	AS INDICATED
120VAC	RED	16 AWG
NEUTRAL	WHITE	16 AWG
220VAC	BLACK	14 AWG
SAFETY E-STOP	ORANGE	18 AWG
SAFETY RESET	ORANGE	18 AWG
POWER	BLACK	AS AMPERE REQUIREMENT

REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD
C	14MAR22	6014	VFD WIRING UPDATS (NO XSTO, ENCODER), NEW BRAKE RESISTOR	JSK	PMV
D	28AUG23	7258	NEW BRAKE RESISTOR NEEDED FAN	JSK	PMV

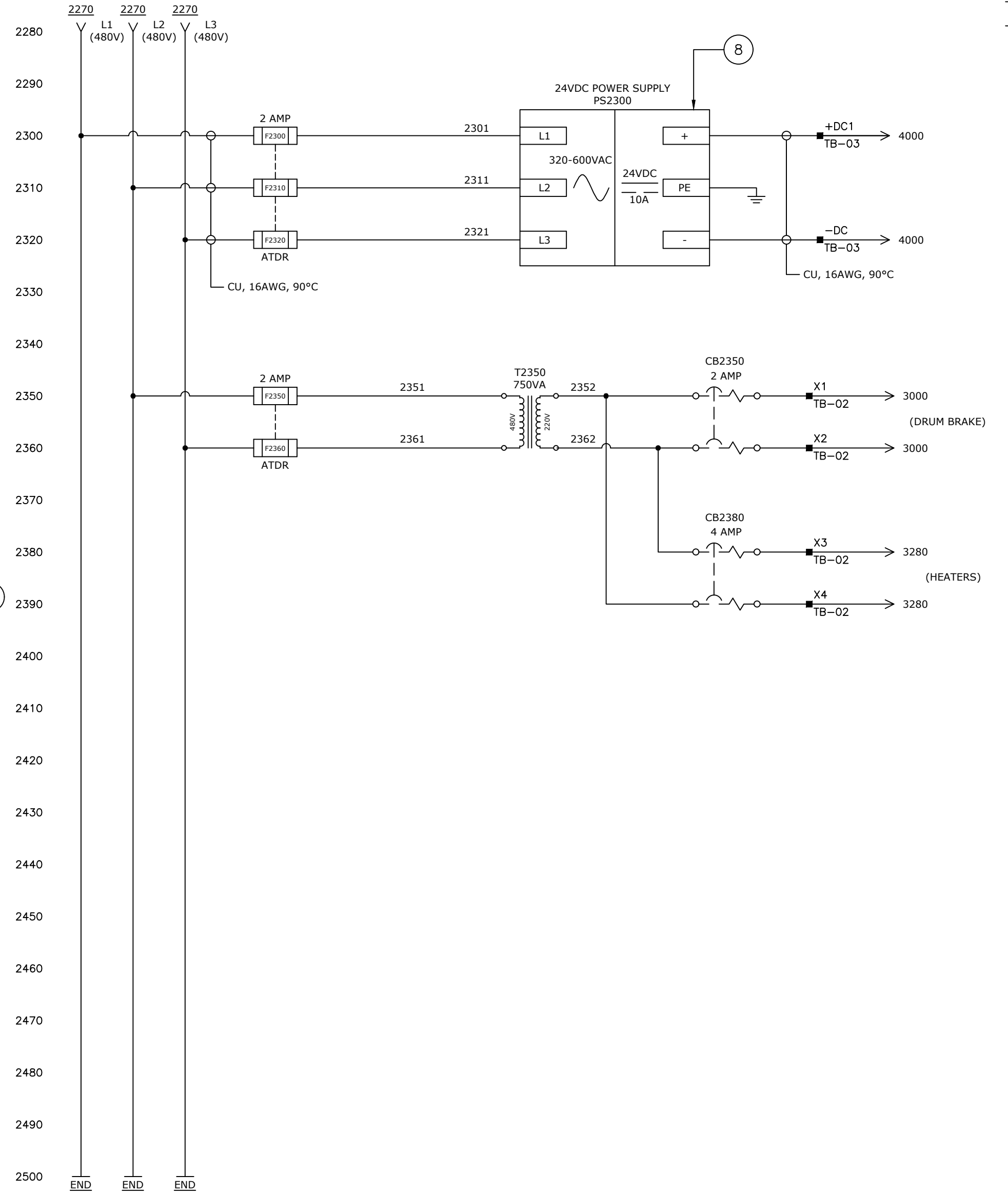
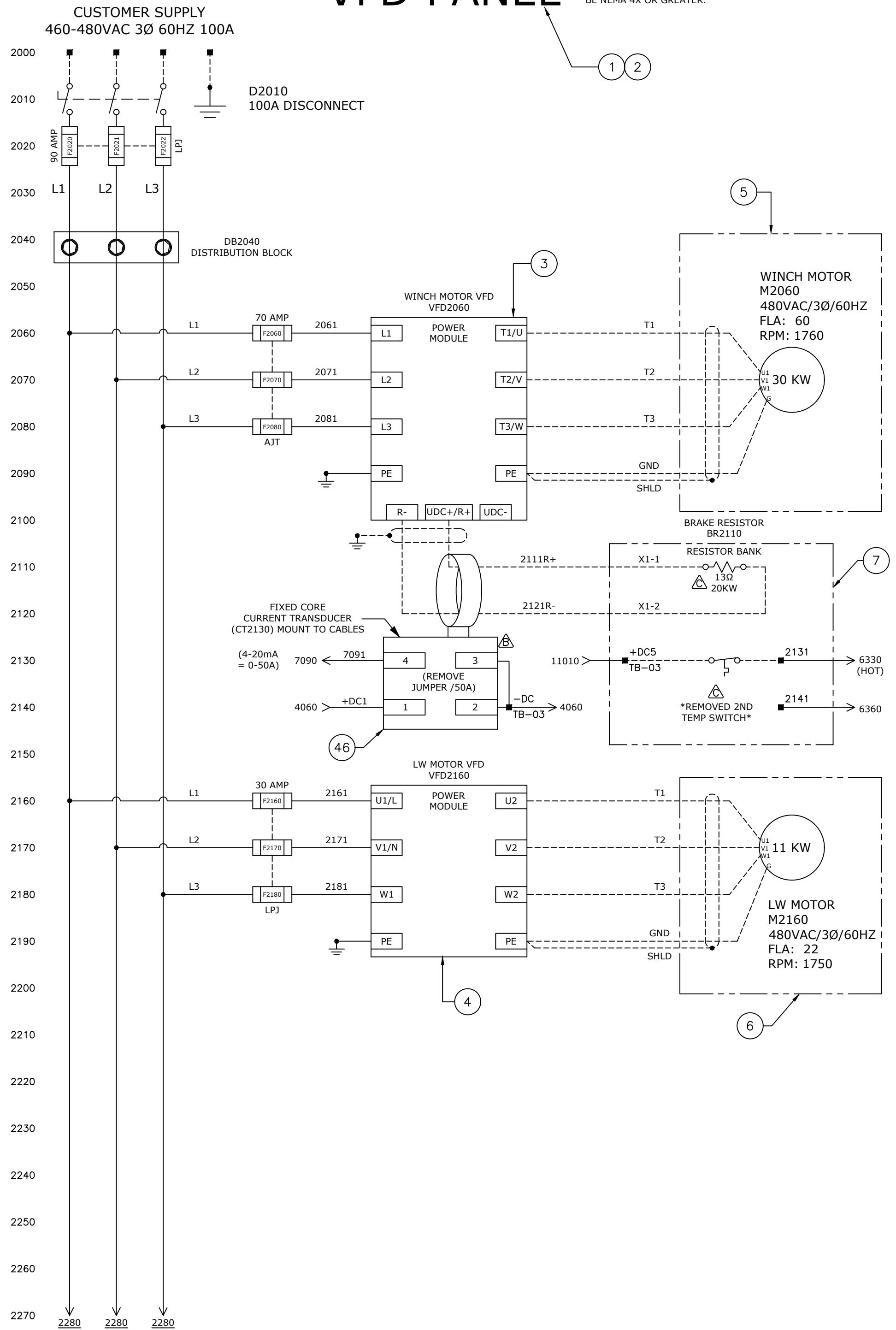
49	5411664	1	COOLING FAN 230VAC, IP68, 1000CFM		REF
48	5404687		FEN-31 ACS880 ENCODER CARD		1
47	5410857	1	1024 PPR ENCODER		REF
46	5409025		DC CURRENT TRANSDUCER		1
45	5401402	1	ENCLOSURE		REF
44	D401010		LOCAL CONSOLE LAYOUT		1
43	D401009		LEVELWIND JOG		1
42	D401008		LARGE BELLY PACK DECAL		1
41	7400373		SPRE-3464 INTERCONNECT DIAGRAM		1
40	7400372		SPRE-3464 PANEL PAYOUT		1
39	5408660	1	ENCLOSURE, 16X12X6, 316SS		REF
38	5407112		BELLY PACK; 14X8X4IN; METAL HANDLES		1
37	5405988		SENSOR, PROXIMITY		4
36	34-00304-586	1	LOAD PIN		REF
35	5406446	2	ENCODER, INCREMENTAL		REF
34	5406447	2	PROTECTION RING, ENCODER ACCESSORY		REF
33	5406448	2	COVER, ENCODER ACCESSORY		REF
32	5406449	2	POSITIONING ELEMENT, ENCODER ACCESSORY		REF
31	5406450	2	ADAPTER SLEEVE, ENCODER ACCESSORY		REF
30	5406451	1	CABLE, ENCODER ACCESSORY		REF
29	5406402	1	LIGHT, BEACON, RED, YELLOW, 24VDC, IP65		REF
28	5402033		HAMMOND PANEL HEATER - 15W		1
27	5408650		JOYSTICK, 20MA-12MA-4MA, DIR SW, LOCK		2
26	5407909		JOYSTICK, THUMB, 10-90% OUTPUT		2
25	5406867		SD MEMORY CARD, 32GB		1
24	5409223		TIAHMI_SPRE-3464 W01942-1943		1
23	5406916		CONNECTOR, PLUG, 19PIN, FEMALE		1
22	5406243		CONNECTOR ACCESSORY, CAP, PLUG		1
21	5406244		CONNECTOR ACCESSORY, CAP, RECEPTACLE		1
20	5406915		CONNECTOR, RECEPTACLE, 19PIN, MALE		1
19	5408350		SIMATIC S7-1200 COMMUNICATION BOARD		1
18	5408674		FIELD WIREABLE M12 4-PIN CONNECTOR		1
17	5408671		TEMP TRANSMITTER 0-300F 4-20MA		1
16	5406021		SIMATIC S7-1200 SIGNAL MODULE 4AI/2AO		2
15	5404756		SIMATIC S7-1200 DIGITAL I/O 16DI		1
14	5409222		TIAPLC_SPRE-3464 W01942-1943		1
13	5408670		ABB MODBUS ADAPTER		1
12	5408669		PANEL ERROR BUZZER AND INDICATOR		2
11	5406542		UNMANAGED IE SWITCH, 5 PORTS		1
10	5004553		24VDC SAFETY RELAY		1
9	5408338		HOFFMAN PANEL HEATER - 400W		1
8	5408352		POWER SUPPLY, 24VDC		1
7	5410491	1	BRAKE RESISTOR 20KW 13 OHM		REF
6	5408557	1	ELECTRIC MOTOR, 11 KW		REF
5	5408411	1	40HP ELECTRIC MOTOR - 480/3/60		REF
4	5408564		VFD, 380-480VAC, 23A		1
3	5408916		VFD, 380-500VAC, 52A		1
2	5407211		ENCLOSURE DRAIN		4
1	5408659	1	ENCLOSURE, 48X36X12, 316SS		REF


ITEM	PART NUMBER	OPER DESC	DESCRIPTION	MATERIAL	UNIT QTY
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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>			<p>HAWBOLDT INDUSTRIES Chester, Nova Scotia, Canada</p>		
<p>A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01</p>		<p>MATL CERT N/R TITLE SPRE-3464 ELECTRICAL SCHEMATIC</p>		<p>DERIVED FROM SHEET 1 OF 11</p>	
<p>C) FRACTIONAL ± 1/32 1. GENERAL ± 1/32 2. SAWING, FLAME CUTTING, SHEARING & BREAKING ± 1/16 3. WELDING ± 1/8</p>		<p>WELD TEST N/R FIRST USED ON WD 1942</p>		<p>EST LBS N/A DRAWN JSK CHECKED YM APPROVED JSK</p>	
		<p>ACT LBS N/A DATE 10OCT19 SCALE 1/1</p>		<p>7400371 D</p>	

VFD PANEL

NOTE:
ALL BUILDER SELECTED EXTERNAL PANEL COMPONENTS TO BE NEMA 4X OR GREATER.

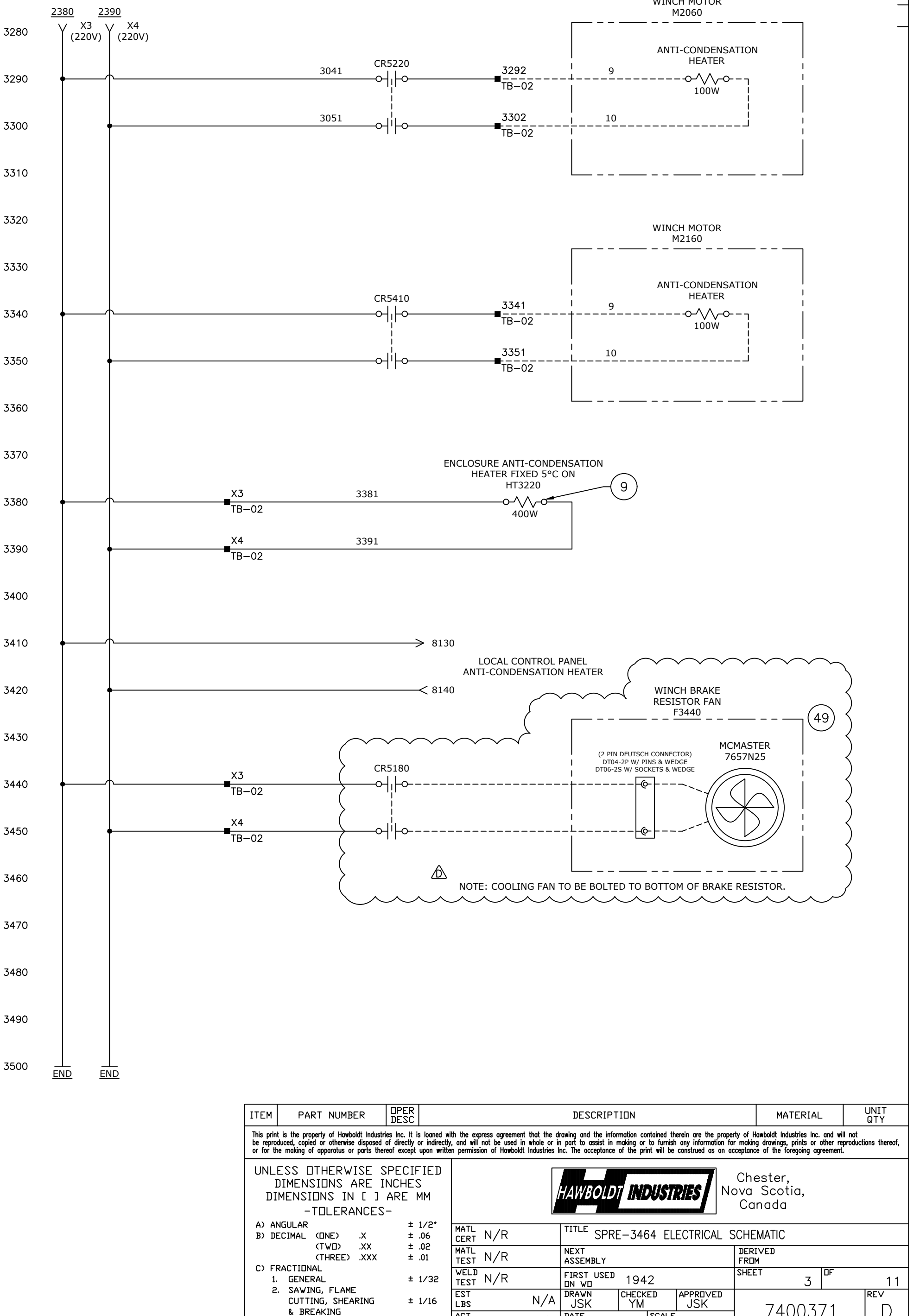
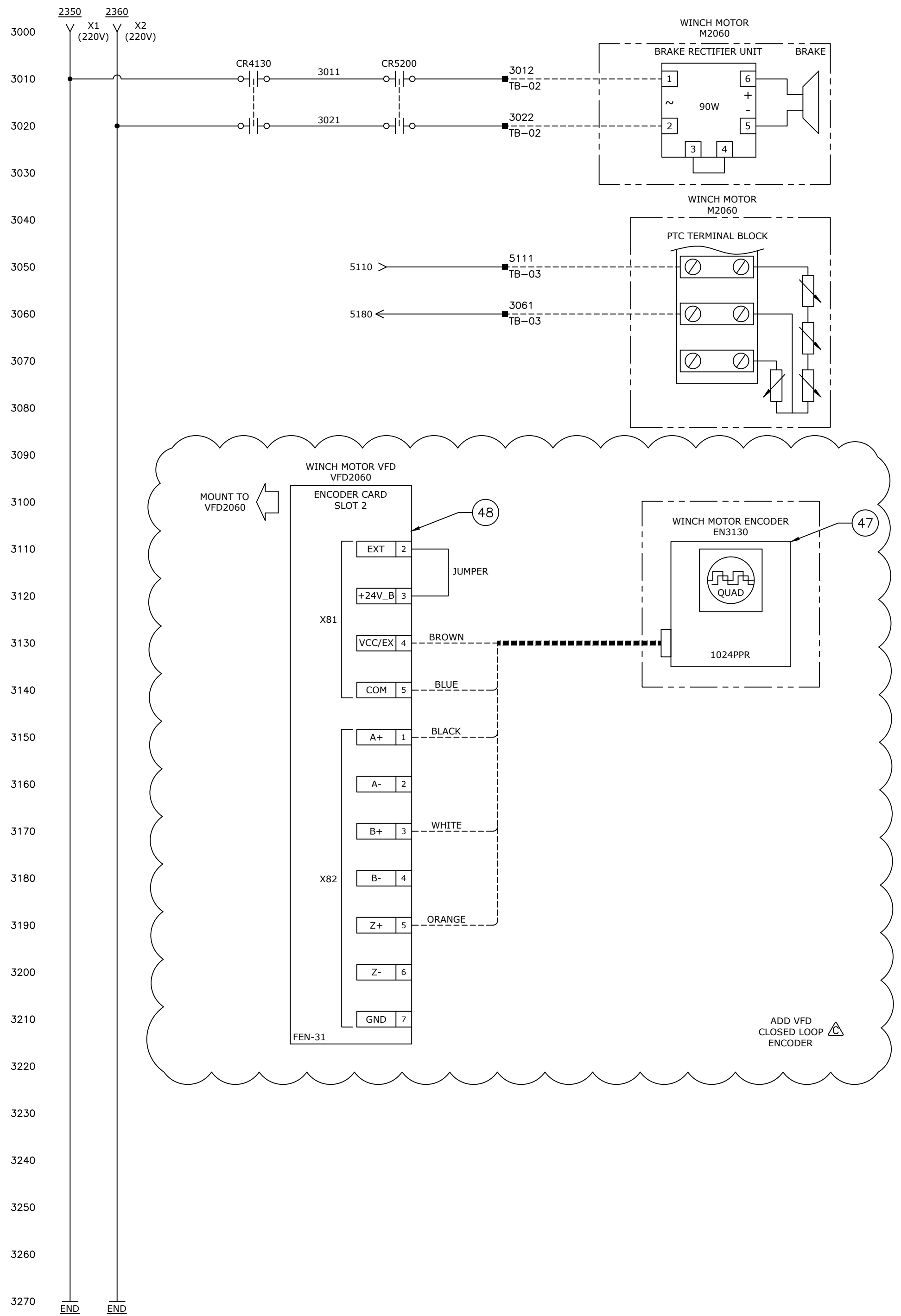
REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD



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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>				 <p>Chester, Nova Scotia, Canada</p>		
<p>A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01</p>						
<p>C) FRACTIONAL ± 1/32 1. GENERAL ± 1/32 2. SAWING, FLAME CUTTING, SHEARING & BREAKING ± 1/16 3. WELDING ± 1/8</p>				<p>MATL CERT N/R TITLE SPRE-3464 ELECTRICAL SCHEMATIC MATL TEST N/R NEXT ASSEMBLY DERIVED FROM SHEET 2 OF 11 WELD TEST N/R FIRST USED ON WD 1942 EST LBS N/A DRAWN JSK CHECKED YM APPROVED JSK ACT LBS N/A DATE 10OCT19 SCALE 1/1</p>		
7400371						REV D

VFD PANEL

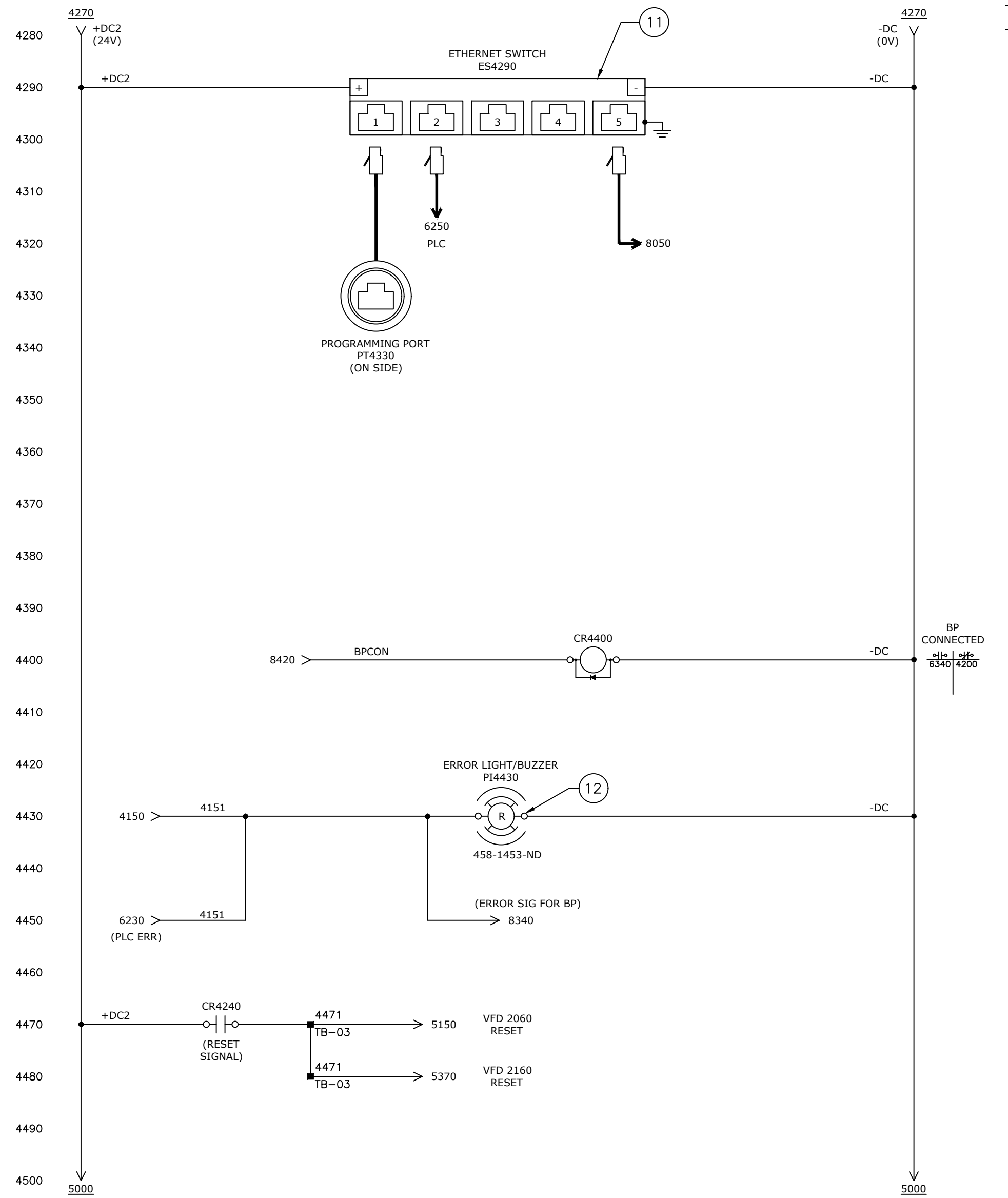
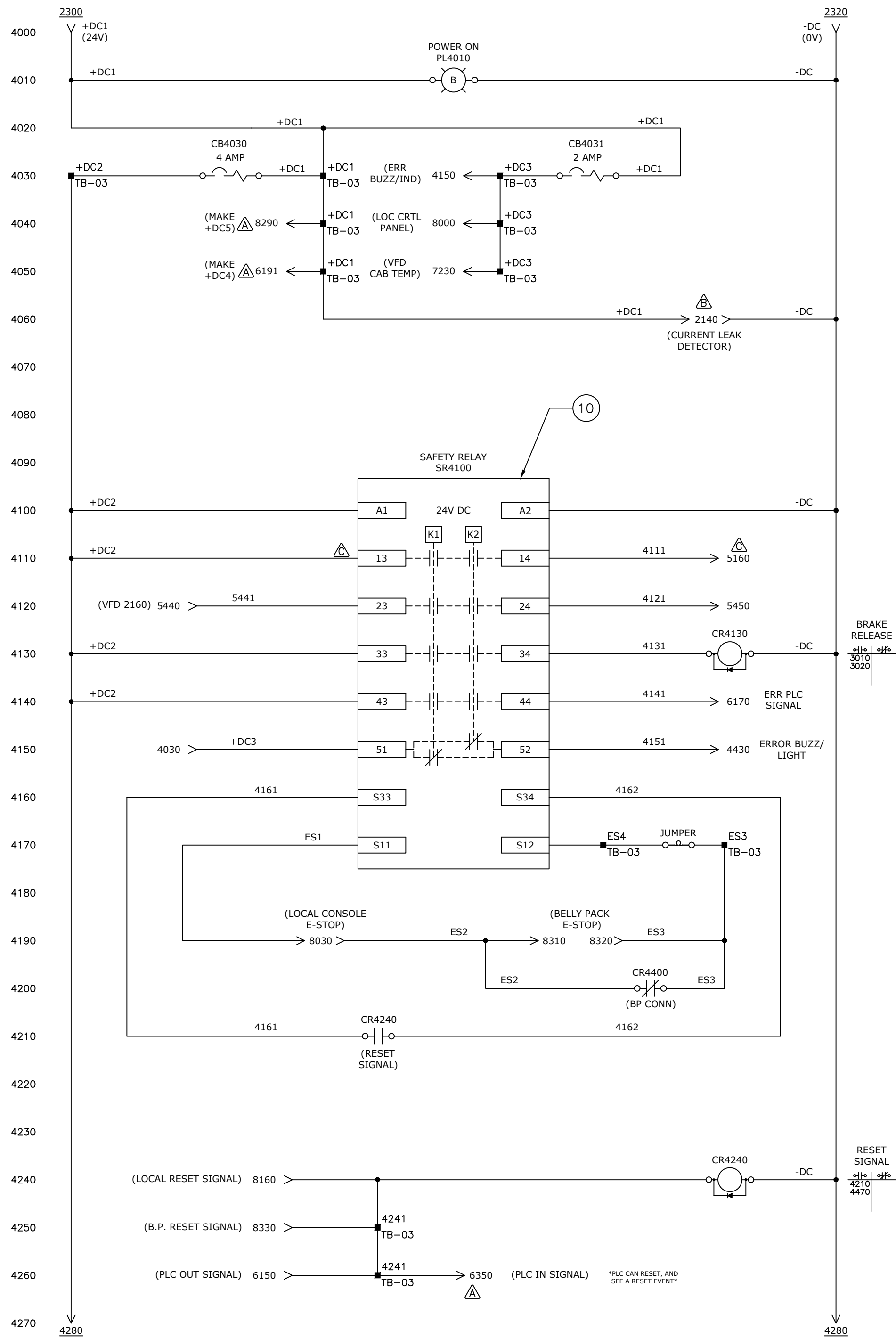
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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>				<p>Chester, Nova Scotia, Canada</p>			
<p>A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01</p>							
<p>C) FRACTIONAL ± 1/32 1. GENERAL 2. SAWING, FLAME CUTTING, SHEARING & BREAKING 3. WELDING ± 1/8</p>				<p>MATL CERT N/R TITLE SPRE-3464 ELECTRICAL SCHEMATIC</p>		<p>DERIVED FROM</p>	
<p>WELD TEST N/R</p>				<p>NEXT ASSEMBLY</p>		<p>SHEET 3 OF 11</p>	
<p>EST LBS N/A</p>				<p>FIRST USED ON WD 1942</p>		<p>APPROVED JSK</p>	
<p>ACT LBS N/A</p>				<p>CHECKED YM</p>		<p>DATE 10OCT19 SCALE 1/1</p>	
<p>7400371</p>						<p>REV D</p>	

VFD PANEL

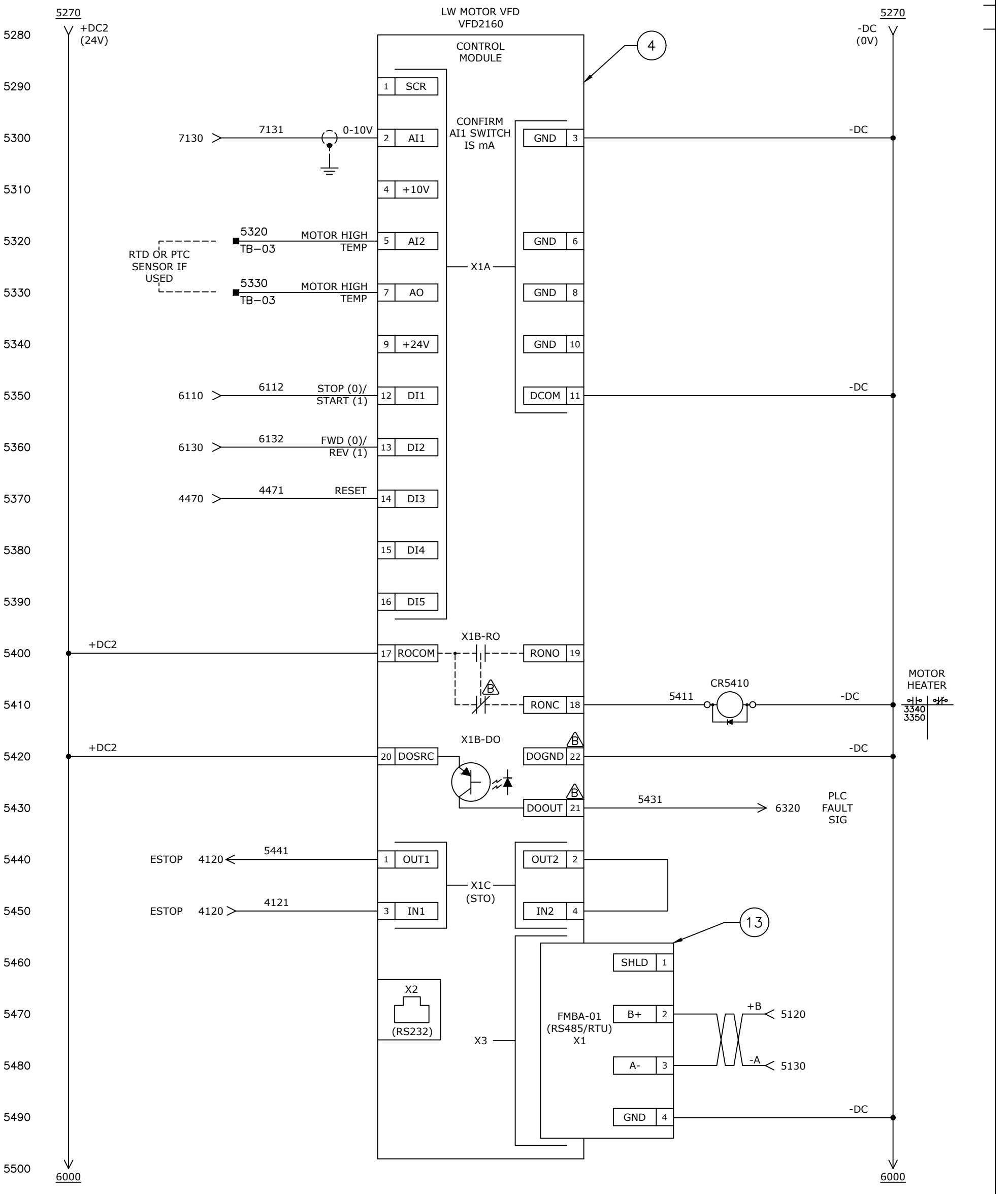
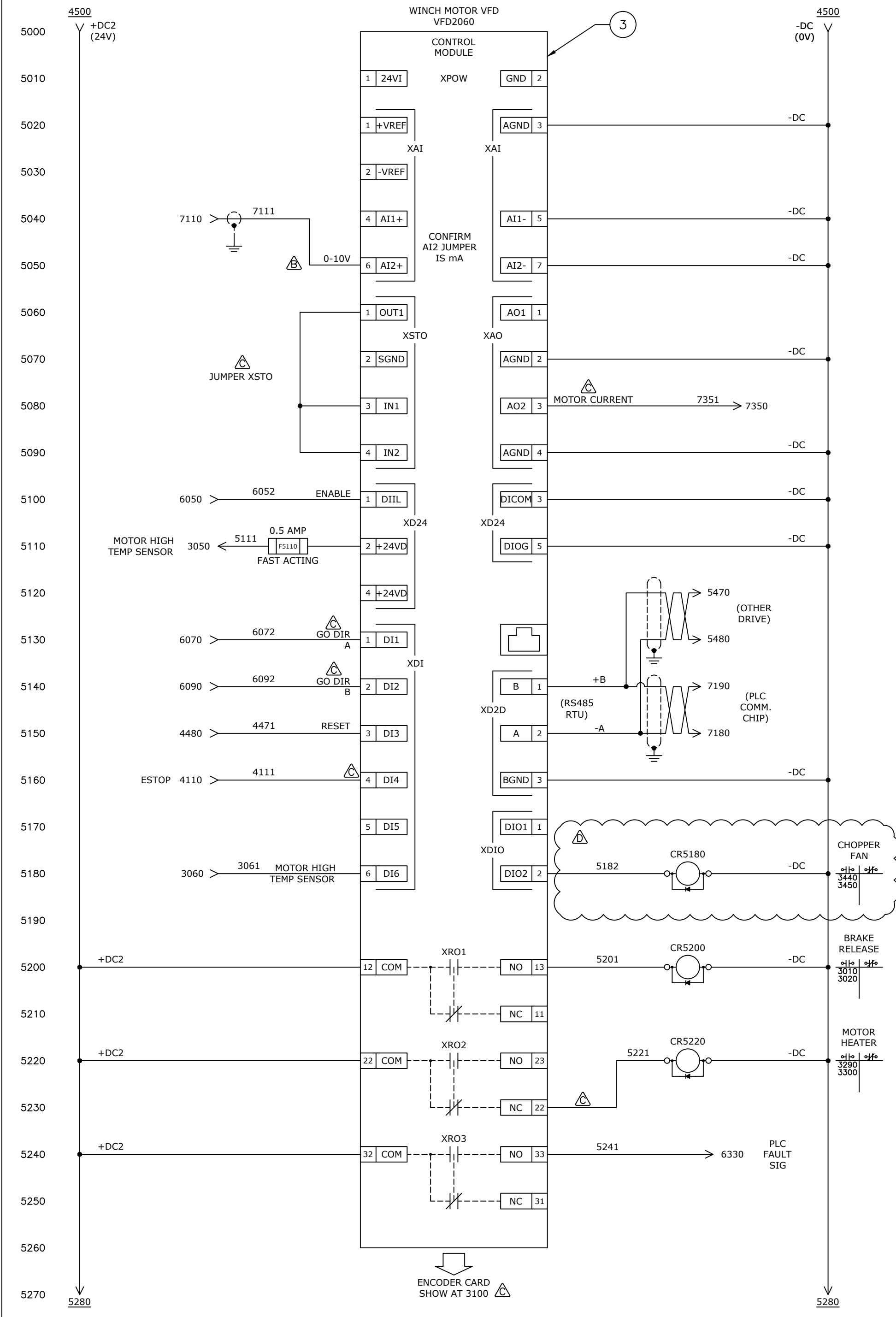
REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD



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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>			<p>HAWBOLD INDUSTRIES Chester, Nova Scotia, Canada</p>		
A) ANGULAR		± 1/2°	MATERIAL N/R TITLE SPRE-3464 ELECTRICAL SCHEMATIC		
B) DECIMAL (ONE)	.X	± .06	MATERIAL N/R NEXT ASSEMBLY		
	(TWO)	± .02	WELD TEST N/R FIRST USED 1942		
	(THREE)	± .01	EST LBS N/A DRAWN JSK CHECKED YM APPROVED JSK		
C) FRACTIONAL		± 1/32	ACT LBS N/A DATE 10OCT19 SCALE 1/1		
1. GENERAL		± 1/32	DERIVED FROM SHEET 4 OF 11		
2. SAWING, FLAME CUTTING, SHEARING & BREAKING		± 1/16	7400371		
3. WELDING		± 1/8	REV D		

VFD PANEL

REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD

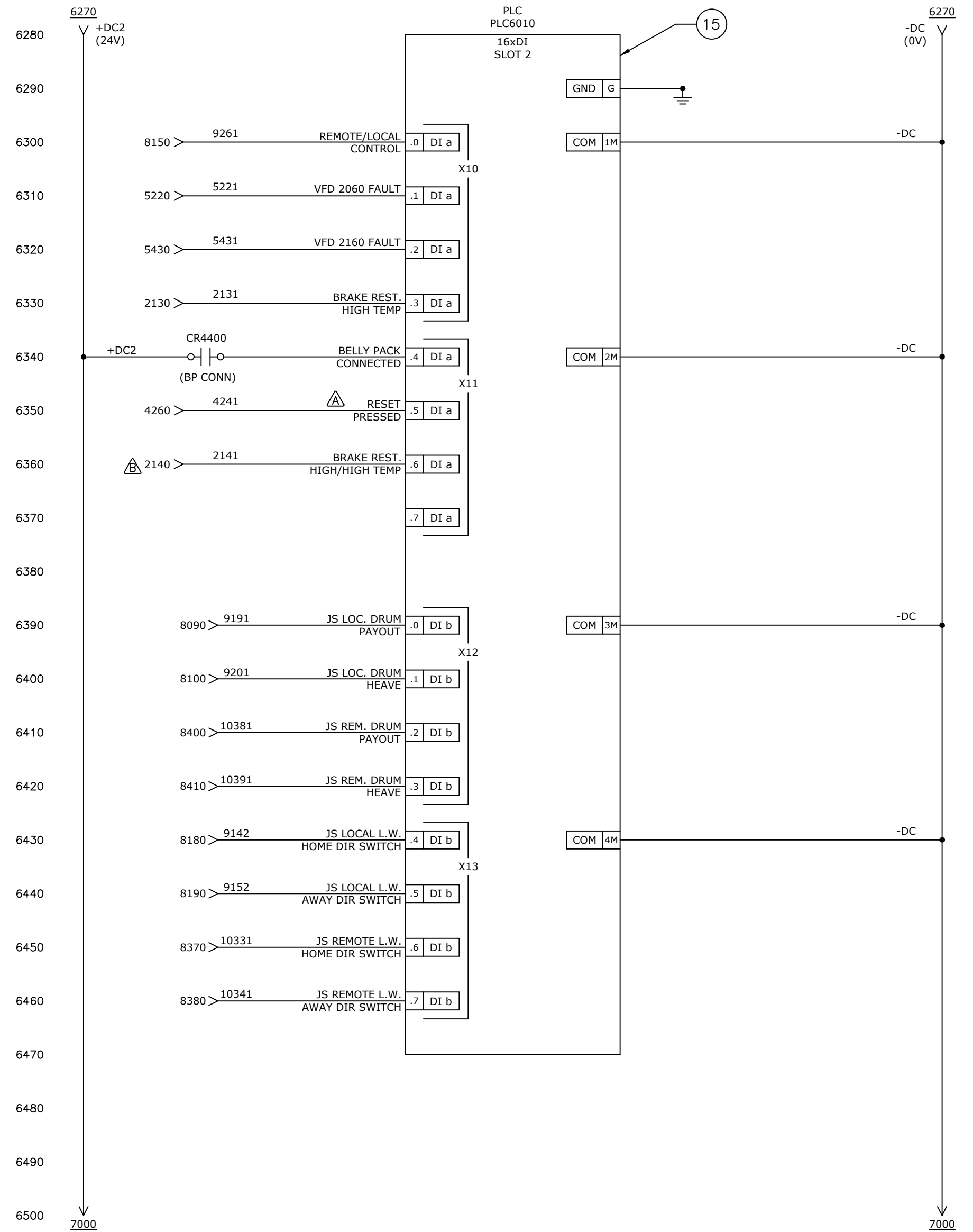
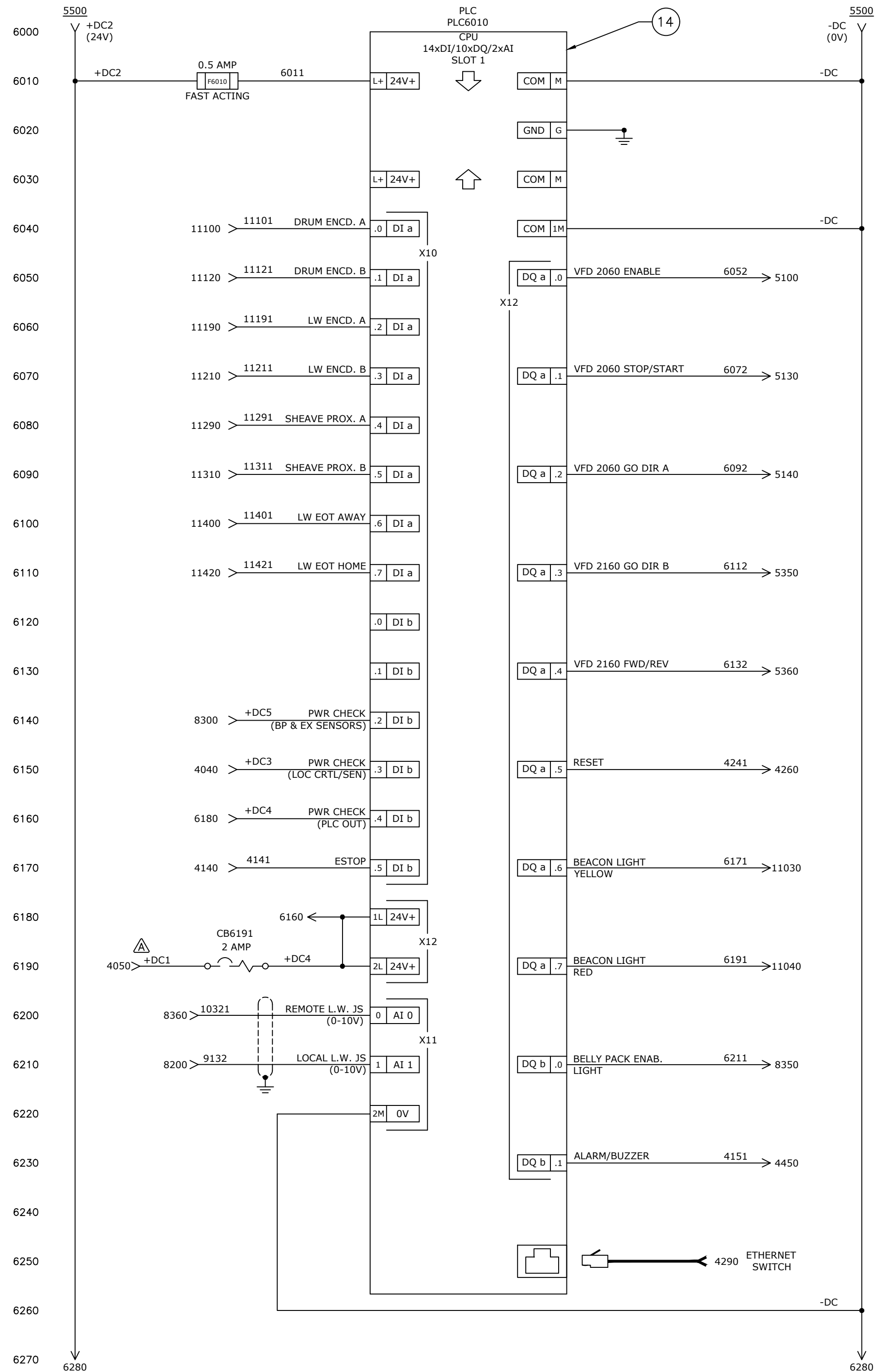


ITEM	PART NUMBER	OPER	DESC	DESCRIPTION	MATERIAL	UNIT	QTY
<p>This print is the property of Hawboldt Industries Inc. It is loaned with the express agreement that the drawing and the information contained therein are the property of Hawboldt Industries Inc. and will not be reproduced, copied or otherwise disposed of directly or indirectly, and will not be used in whole or in part to assist in making or to furnish any information for making drawings, prints or other reproductions thereof, or for the making of apparatus or parts thereof except upon written permission of Hawboldt Industries Inc. The acceptance of the print will be construed as an acceptance of the foregoing agreement.</p>							
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>							
<p>A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01</p>				<p>Chester, Nova Scotia, Canada</p>			
<p>MATL CERT N/R</p>		<p>TITLE SPRE-3464 ELECTRICAL SCHEMATIC</p>		<p>DERIVED FROM</p>		<p>SHEET 5 OF 11</p>	
<p>WELD TEST N/R</p>		<p>FIRST USED 1942</p>		<p>DATE 10OCT19</p>		<p>SCALE 1/1</p>	
<p>EST LBS N/A</p>		<p>DRAWN JSK</p>		<p>CHECKED YM</p>		<p>APPROVED JSK</p>	
<p>ACT LBS N/A</p>		<p>DATE</p>		<p>SCALE</p>		<p>7400371</p>	
<p>REV D</p>							<p> </p>

ENCODER CARD SHOW AT 3100

VFD PANEL

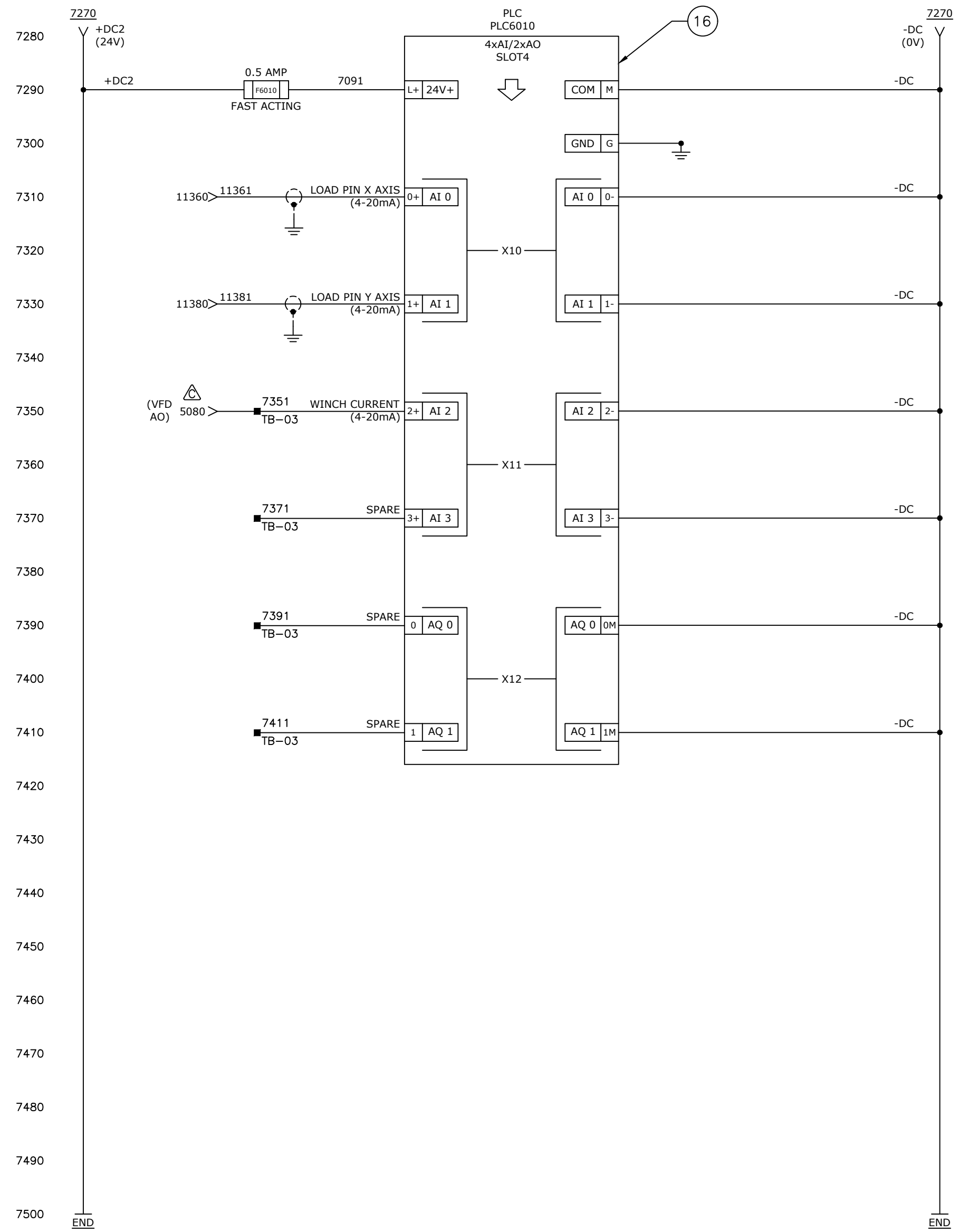
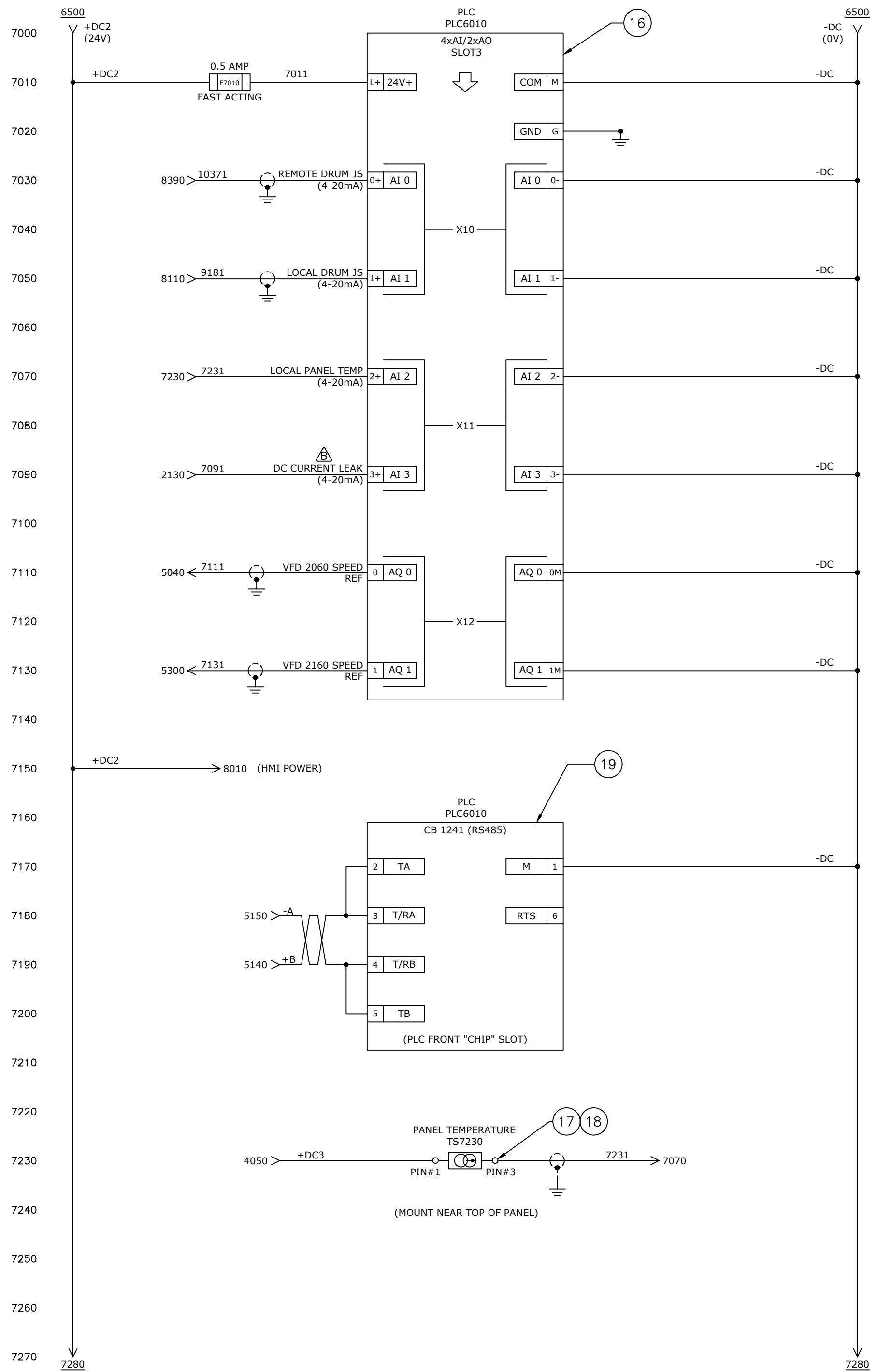
REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD



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<p>A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01</p>				<p>CHESTER, NOVA SCOTIA, CANADA</p>			
<p>C) FRACTIONAL ± 1/32 1. GENERAL ± 1/16 2. SAWING, FLAME CUTTING, SHEARING & BREAKING ± 1/8 3. WELDING ± 1/8</p>				<p>TITLE SPRE-3464 ELECTRICAL SCHEMATIC NEXT ASSEMBLY DERIVED FROM FIRST USED 1942 DATE 10OCT19 SCALE 1/1</p>			
<p>MATL CERT N/R WELD TEST N/R</p>		<p>EST LBS N/A ACT LBS N/A</p>		<p>CHECKED YM APPROVED JSK</p>		<p>6 DF 11 7400371 D</p>	

VFD PANEL

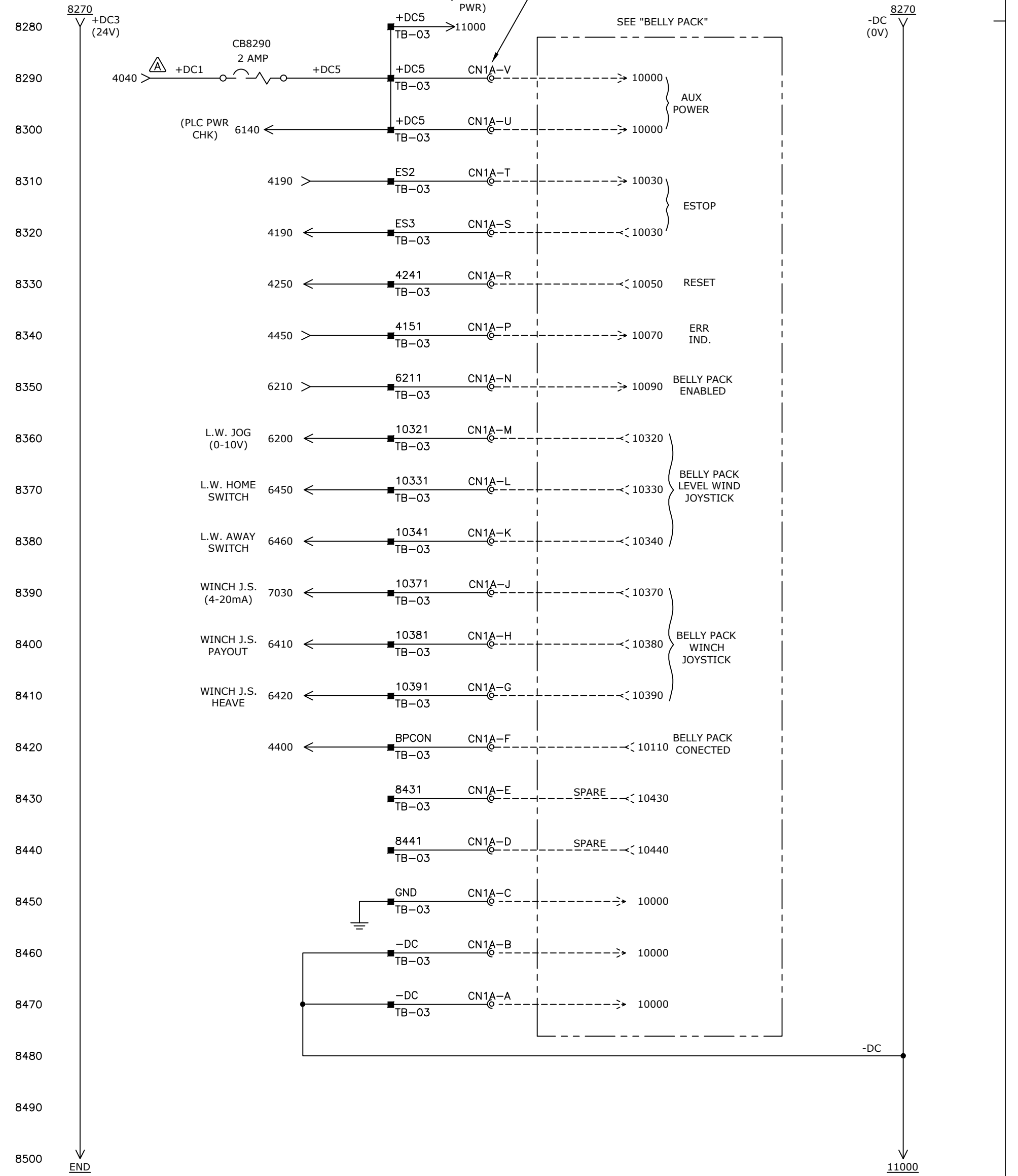
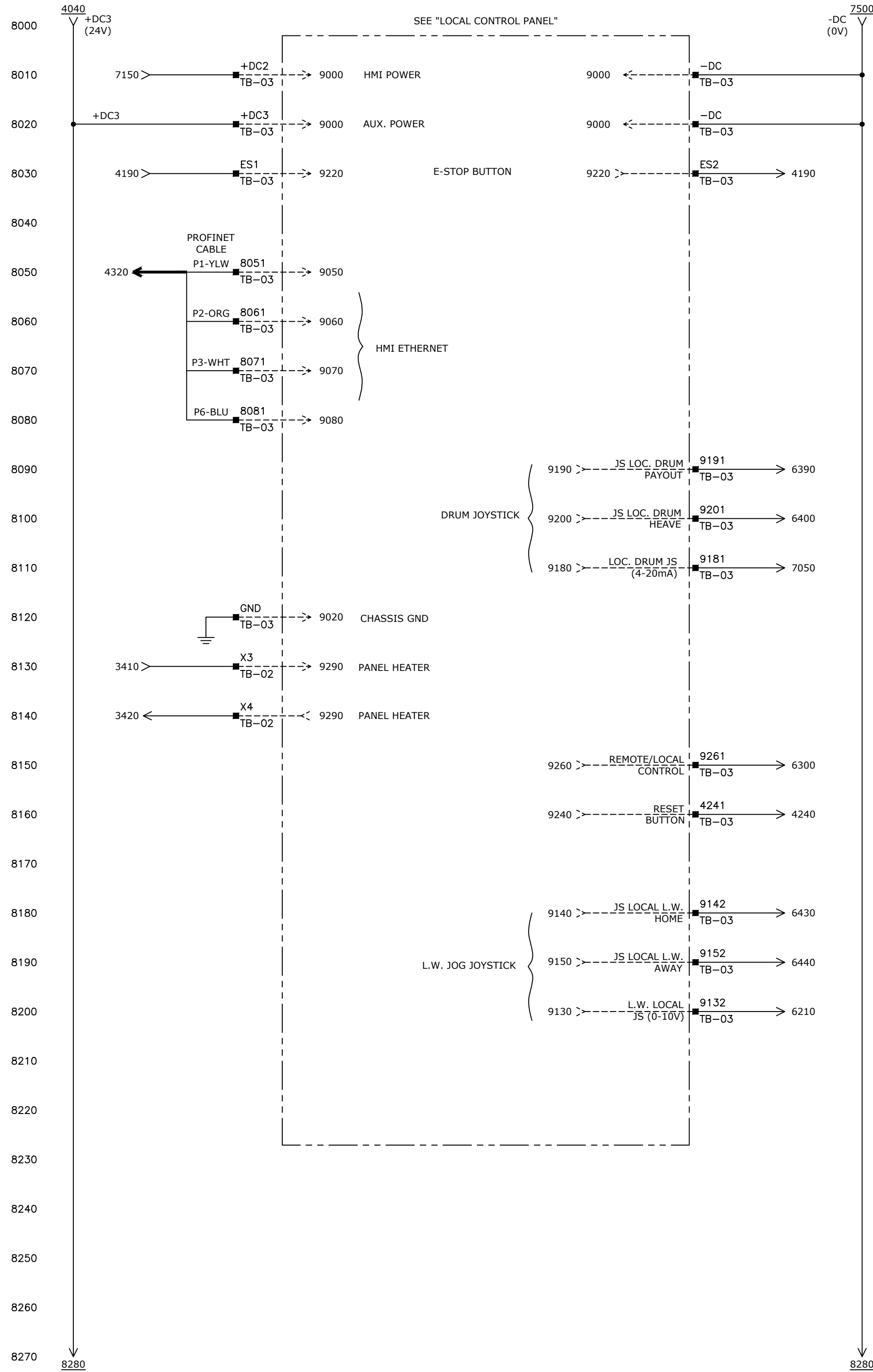
REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD
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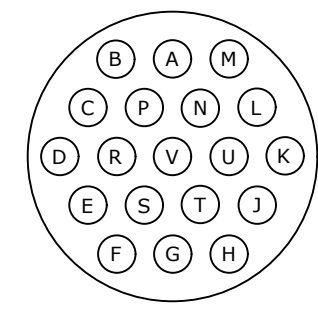
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<p>C) FRACTIONAL ± 1/32 1. GENERAL ± 1/32 2. SAWING, FLAME CUTTING, SHEARING & BREAKING ± 1/16 3. WELDING ± 1/8</p>			<p>TITLE SPRE-3464 ELECTRICAL SCHEMATIC NEXT ASSEMBLY DERIVED FROM FIRST USED 1942 DATE 10OCT19 SCALE 1/1</p>		
<p>EST LBS N/A ACT LBS N/A</p>		<p>CHECKED JSK APPROVED JSK</p>		<p>7 OF 11 7400371 REV D</p>	

VFD PANEL

REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD



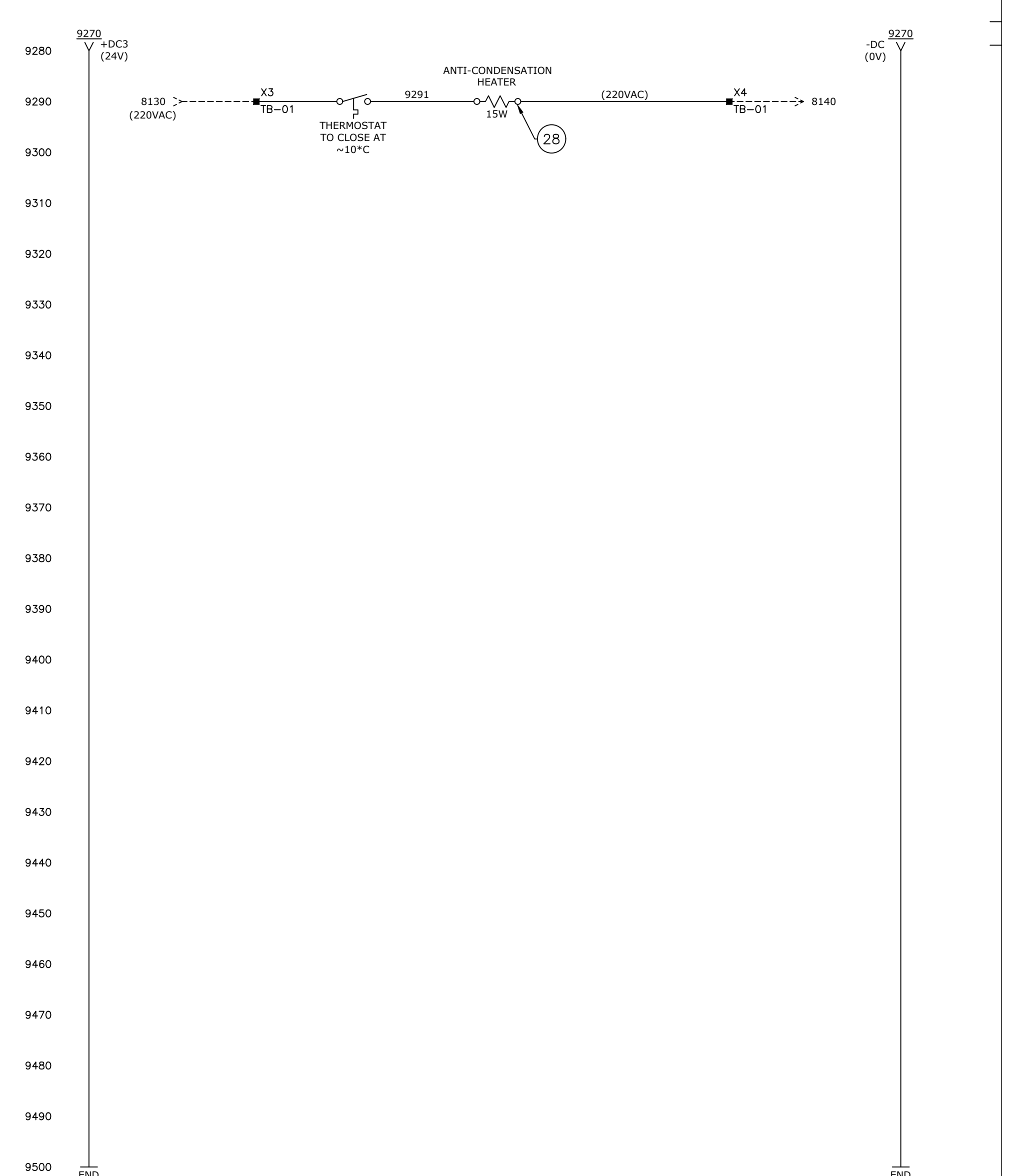
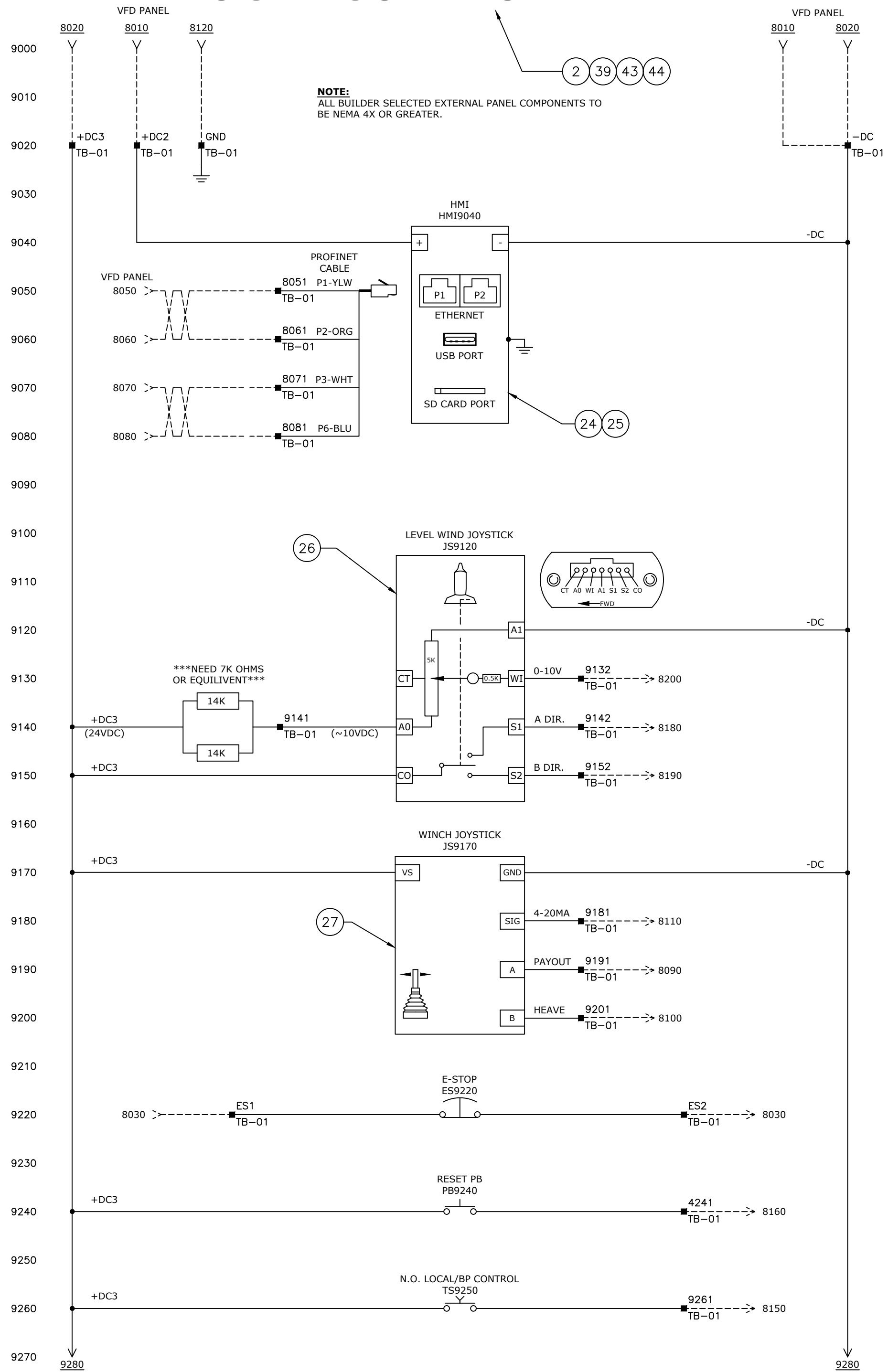
SOURIAU 19 REF. PINOUT



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<p>A) ANGULAR ± 1/2°</p>		<p>B) DECIMAL (ONE) .X ± .06</p>		<p>MATL CERT N/R TITLE SPRE-3464 ELECTRICAL SCHEMATIC</p>	
<p>(TWO) .XX ± .02</p>		<p>(THREE) .XXX ± .01</p>		<p>MATL TEST N/R NEXT ASSEMBLY DERIVED FROM SHEET 8 OF 11</p>	
<p>C) FRACTIONAL ± 1/32</p>		<p>1. GENERAL ± 1/32</p>		<p>WELD TEST N/R FIRST USED 1942</p>	
<p>2. SAWING, FLAME CUTTING, SHEARING & BREAKING ± 1/16</p>		<p>3. WELDING ± 1/8</p>		<p>EST LBS N/A DRAWN JSK CHECKED YM APPROVED JSK</p>	
<p>ACT LBS N/A</p>		<p>DATE 10OCT19 SCALE 1/1</p>		<p>7400371 REV D</p>	

LOCAL CONTROL PANEL

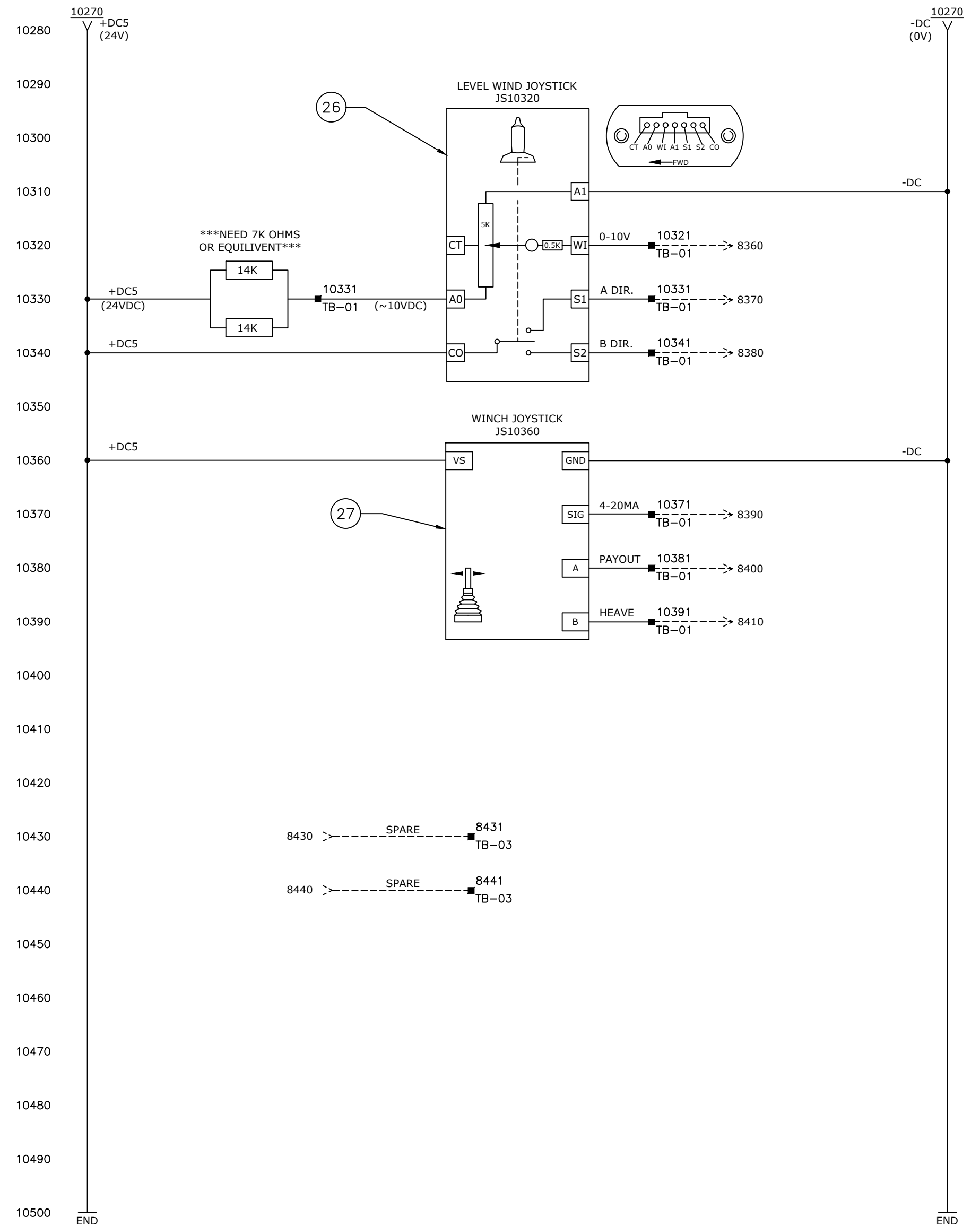
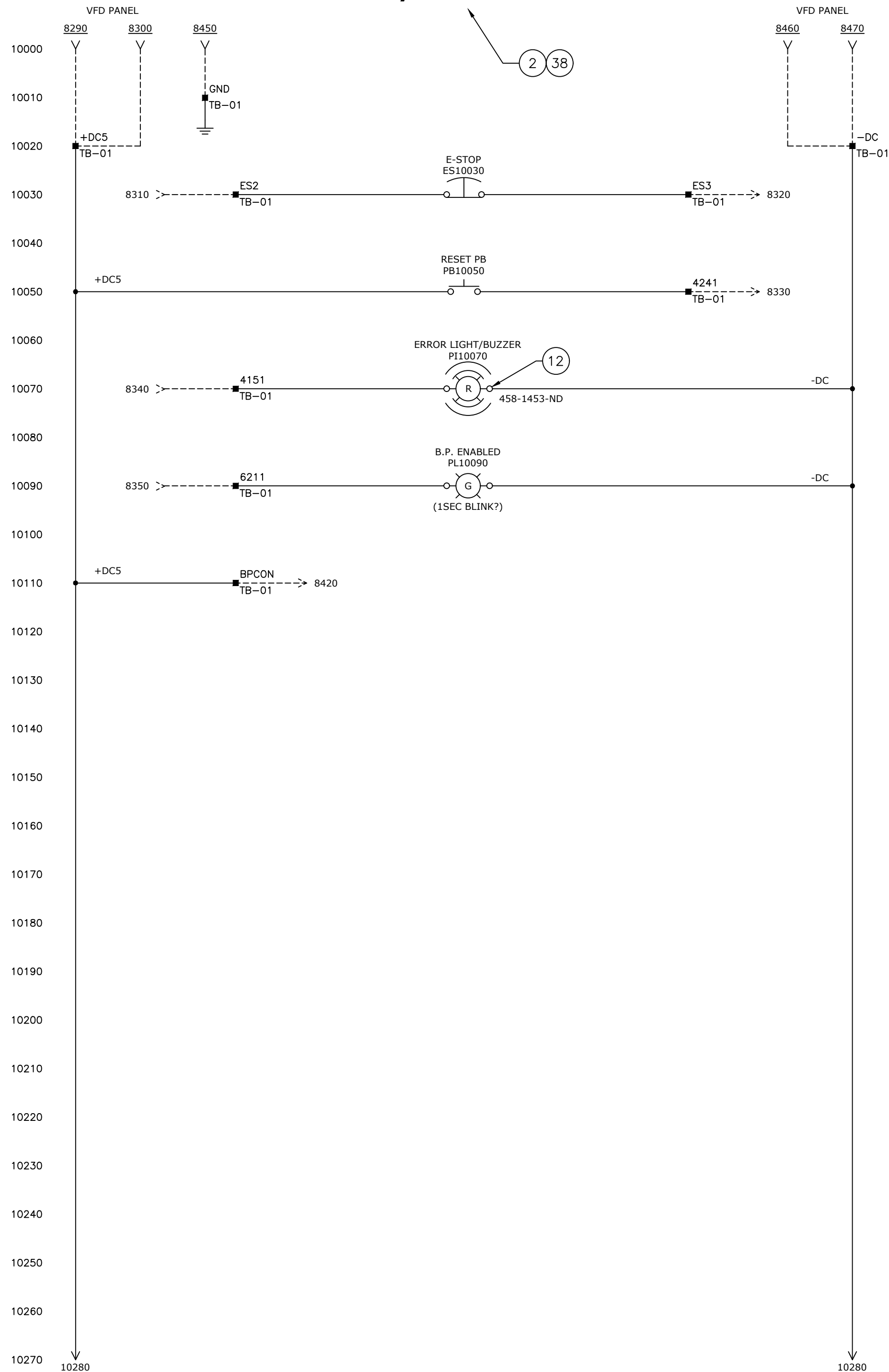
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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>					
A) ANGULAR					± 1/2"
B) DECIMAL (ONE)					± .06
					± .02
					± .01
C) FRACTIONAL					± 1/32
1. GENERAL					± 1/16
2. SAWING, FLAME CUTTING, SHEARING & BREAKING					± 1/8
3. WELDING					± 1/8
<p>MATL CERT N/R</p>			<p>TITLE SPRE-3464 ELECTRICAL SCHEMATIC</p>		
<p>MATL TEST N/R</p>			<p>NEXT ASSEMBLY</p>		
<p>WELD TEST N/R</p>			<p>DERIVED FROM SHEET 9 OF 11</p>		
<p>EST LBS N/A</p>			<p>FIRST USED ON WD 1942</p>		
<p>ACT LBS N/A</p>			<p>CHECKED YM APPROVED JSK</p>		
<p>DATE 10OCT19</p>			<p>SCALE 1/1</p>		
<p>7400371</p>					<p>REV D</p>

REMOTE/BELLY PACK

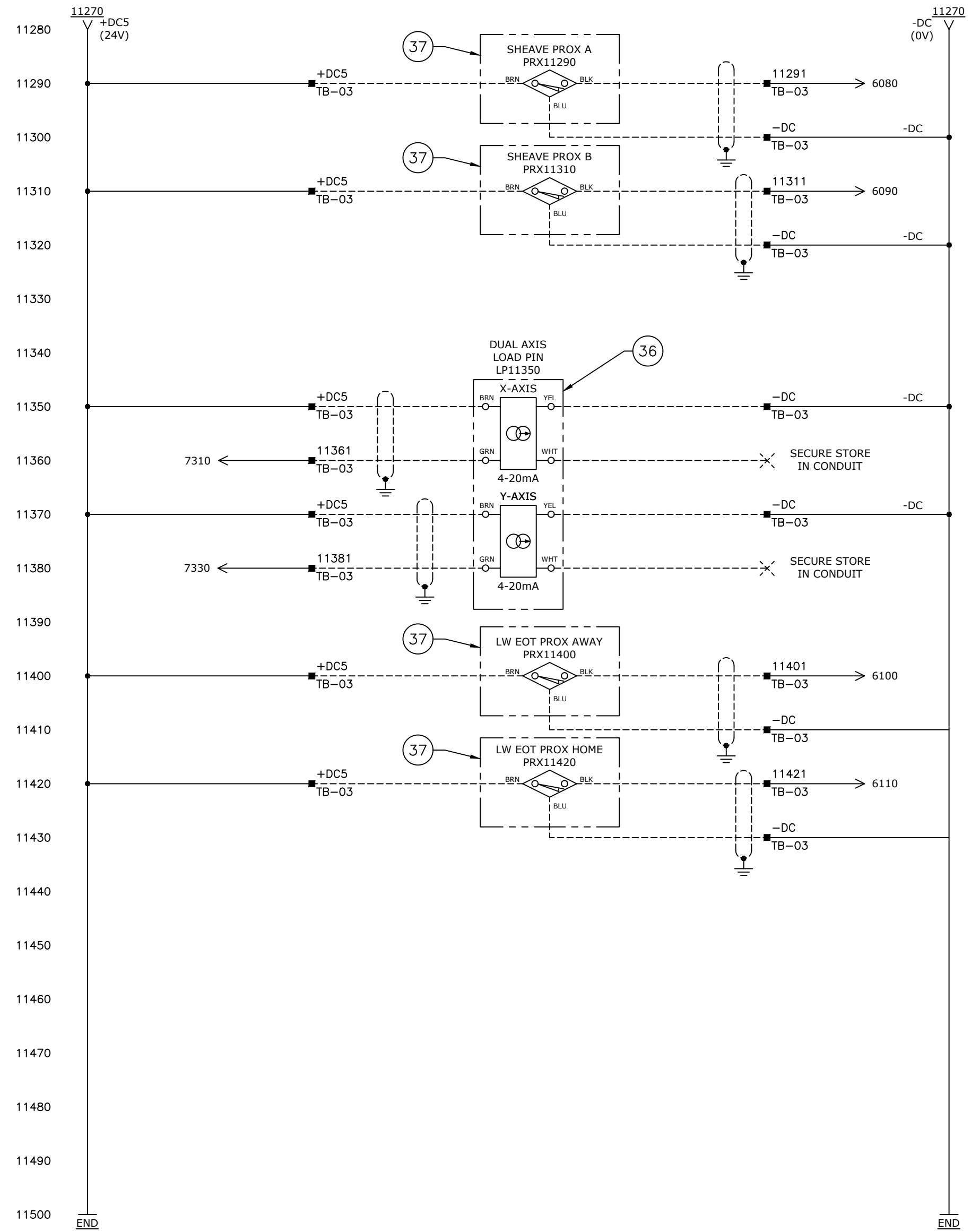
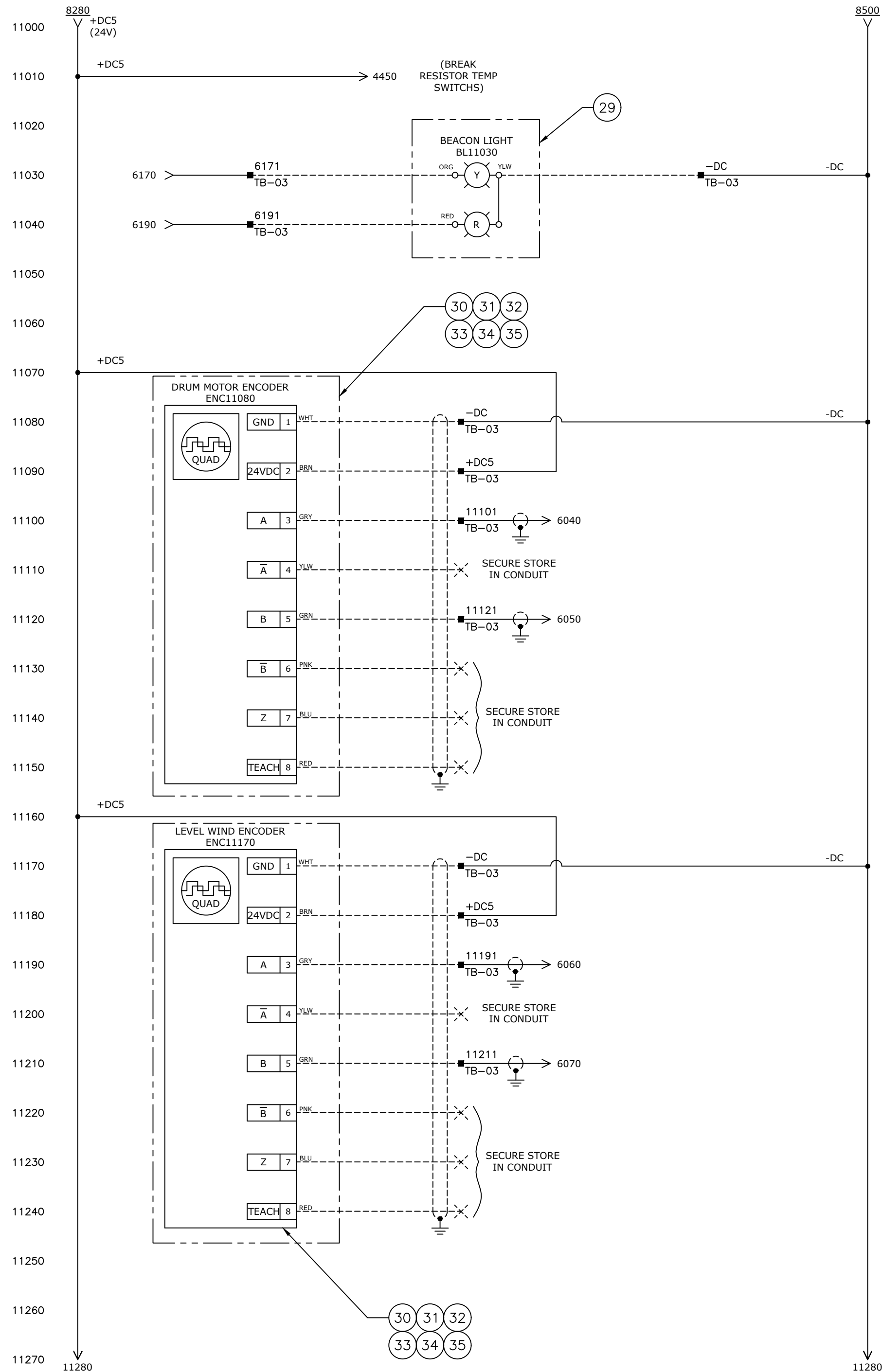
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES- A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01 C) FRACTIONAL ± 1/32 1. GENERAL 2. SAWING, FLAME CUTTING, SHEARING & BREAKING 3. WELDING ± 1/8			<div style="text-align: center;">  Chester, Nova Scotia, Canada </div>		
MATL CERT	N/R	TITLE	SPRE-3464 ELECTRICAL SCHEMATIC		
MATL TEST	N/R	NEXT ASSEMBLY	DERIVED FROM		
WELD TEST	N/R	FIRST USED ON WD	1942	SHEET	10 OF 11
EST LBS	N/A	DRAWN JSK	CHECKED YM	APPROVED JSK	REV D
ACT LBS	N/A	DATE 10OCT19	SCALE 1/1	7400371	

MACHINE DEVICES

REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD



ITEM	PART NUMBER	OPER DESC	DESCRIPTION	MATERIAL	UNIT QTY
<p>This print is the property of Howboldt Industries Inc. It is loaned with the express agreement that the drawing and the information contained therein are the property of Howboldt Industries Inc. and will not be reproduced, copied or otherwise disposed of directly or indirectly, and will not be used in whole or in part to assist in making or to furnish any information for making drawings, prints or other reproductions thereof, or for the making of apparatus or parts thereof except upon written permission of Howboldt Industries Inc. The acceptance of the print will be construed as an acceptance of the foregoing agreement.</p>					
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MM -TOLERANCES-</p>			 <p>Chester, Nova Scotia, Canada</p>		
<p>A) ANGULAR ± 1/2° B) DECIMAL (ONE) .X ± .06 (TWO) .XX ± .02 (THREE) .XXX ± .01</p>					
<p>C) FRACTIONAL ± 1/32 1. GENERAL ± 1/16 2. SAWING, FLAME CUTTING, SHEARING & BREAKING ± 1/8 3. WELDING ± 1/8</p>			<p>TITLE SPRE-3464 ELECTRICAL SCHEMATIC NEXT ASSEMBLY DERIVED FROM FIRST USED ON WD SHEET 11 OF 11</p>		
<p>EST LBS N/A ACT LBS N/A</p>			<p>DRAWN JSK DATE 10OCT19 CHECKED YM APPROVED JSK SCALE 1/1</p>		
<p>7400371</p>				<p>REV D</p>	