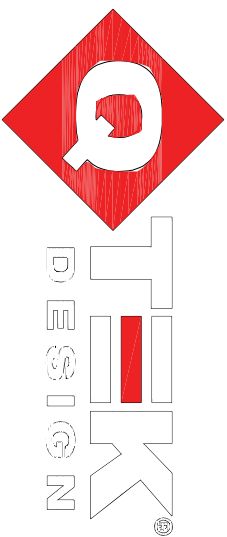
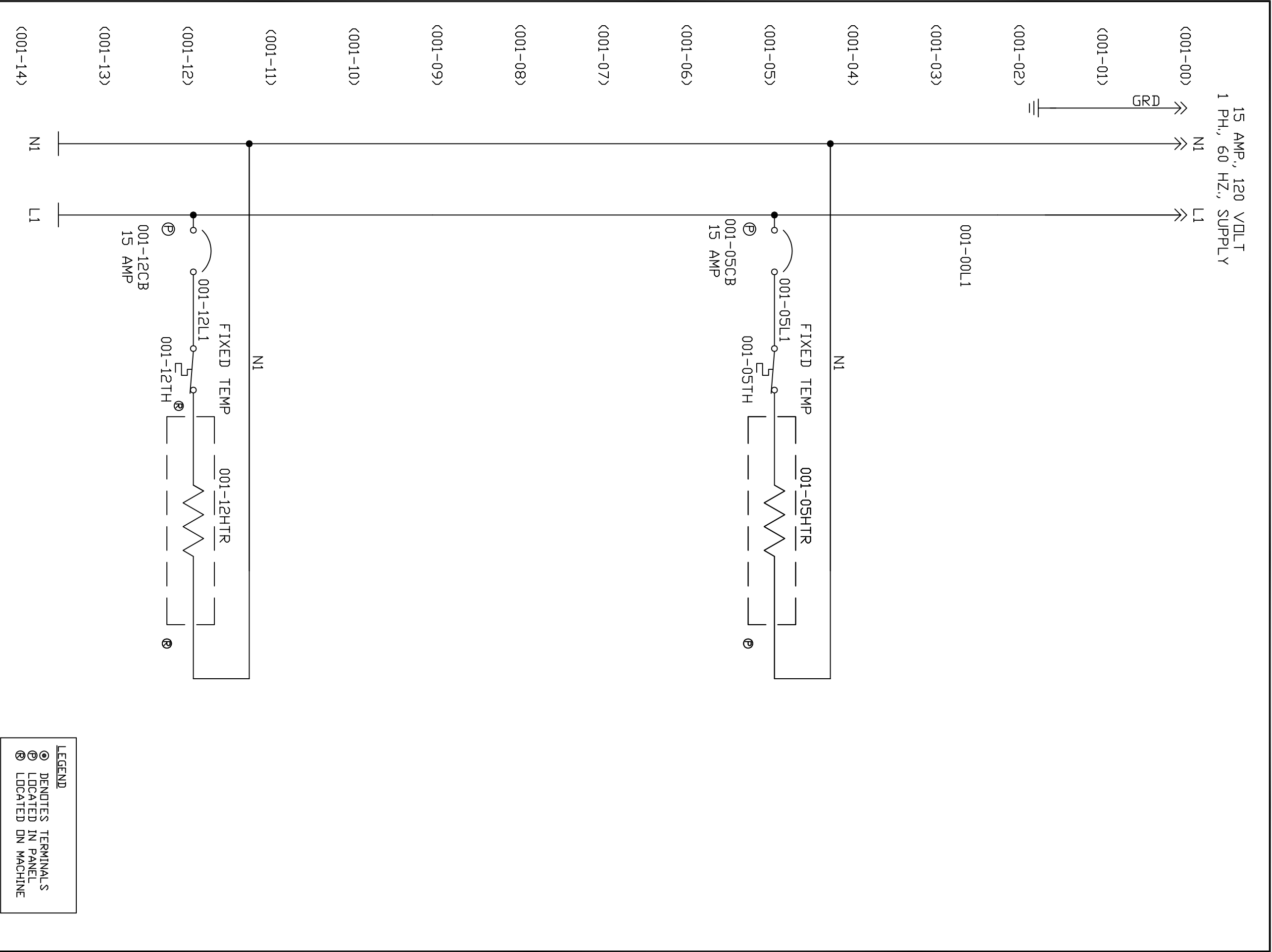
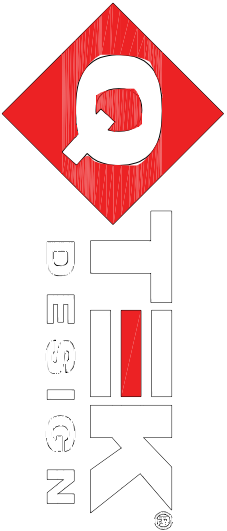


DRAWING NUMBER	DRAWING TITLE	MAJ REV	MIN REV
M9601015-000	DRAWING INDEX	007	AA
M9601015-001	120VAC OPTIONAL HEATER CIRCUIT	007	AA
M9601015-002	120 VAC CONTRDL WIRING	007	AA
M9601015-003	24 VDC CONTRDL WIRING	007	AA
M9601015-004	24 VDC SAFETY RELAY WIRING	007	AA
M9601015-005	24 VDC INPUT WIRING	007	AA
M9601015-006	24 VDC INPUT WIRING	007	AA
M9601015-007	24 VDC INPUT WIRING	007	AA
M9601015-008	24 VDC INPUT WIRING	007	AA
M9601015-009	24 VDC OUTPUT WIRING	007	AA
M9601015-010	24 VDC OUTPUT WIRING	007	AA
M9601015-011	24 VDC OUTPUT WIRING	007	AA
M9601015-012	24 VDC OUTPUT WIRING	007	AA
M9601015-013	PB PANEL LAYOUT	007	AA
M9601015-014	PANEL DDDR LAYOUT	007	AA
M9601015-015	PANEL BACKPLATE LAYOUT	007	AA
M9601015-016	SPARE	007	0
M9601015-017	BDM – MAIN PANEL	007	AA
M9601015-018	BDM – FIELD DEVICES	007	AA
M9601015-019	CABLE WIRING CHART	007	AA
M9601015-020	NETWDRK LAYOUT	007	AA
M9601015-021	SPARE	0	0
M9601015-022	SPARE	0	0
M9601015-023	SPARE	0	0
M9601015-024	SPARE	0	0
M9601015-025	SPARE	0	0
M9601015-026	SPARE	0	0
M9601015-027	SPARE	0	0
M9601015-028	SPARE	0	0
M9601015-029	SPARE	0	0
M9601015-030	SPARE	0	0
M9601015-031	SPARE	0	0
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M9601015-035	SPARE	0	0
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M9601015-037	SPARE	0	0
M9601015-038	SPARE	0	0
M9601015-039	SPARE	0	0
M9601015-040	SPARE	0	0
M9601015-041	SPARE	0	0
M9601015-042	SPARE	0	0
M9601015-043	SPARE	0	0
M9601015-044	SPARE	0	0
M9601015-045	SPARE	0	0
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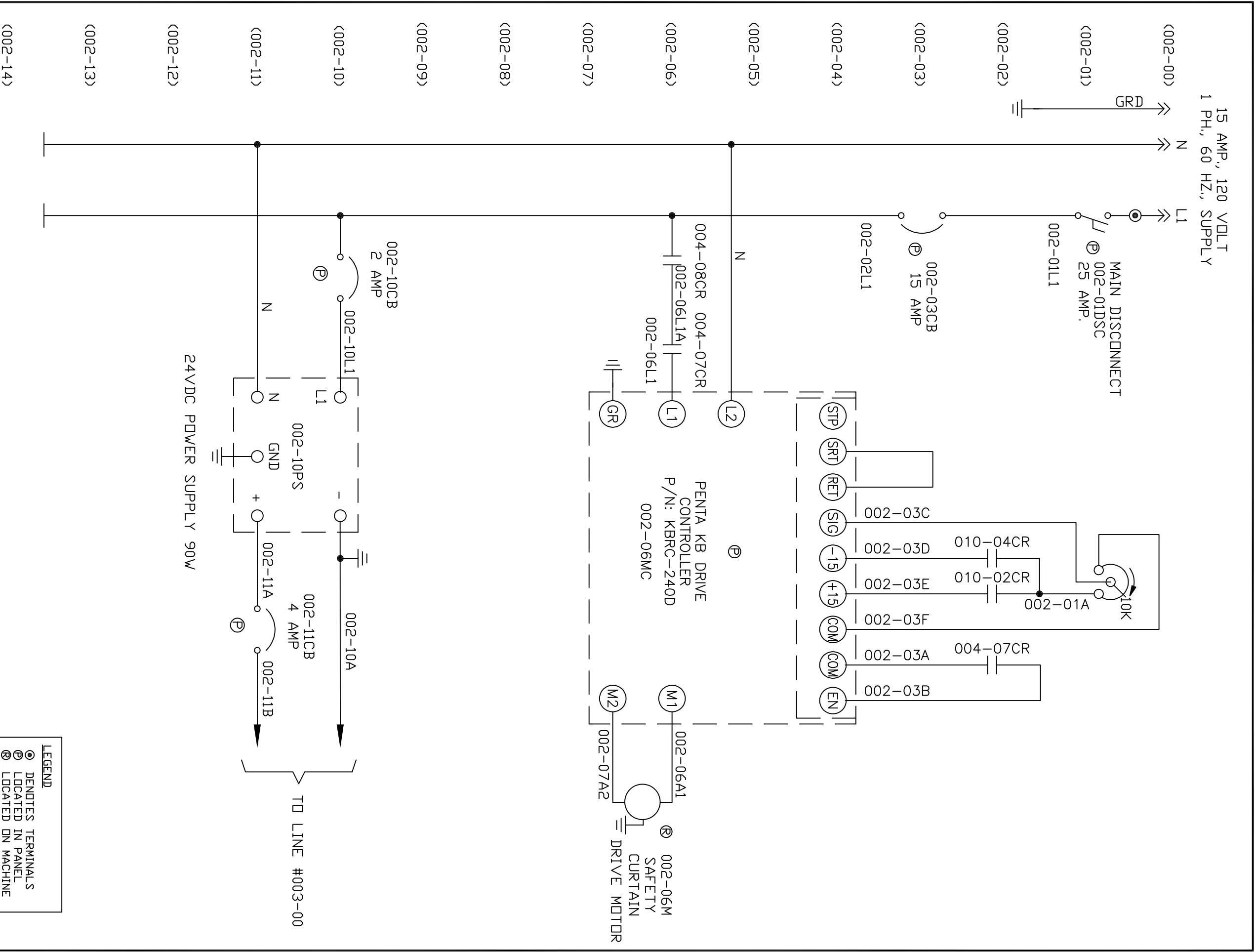
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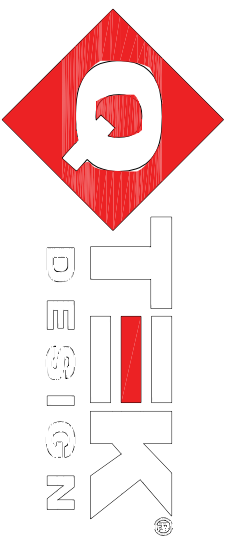
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		ACP	6		10/23	JOB TITLE	Electrical Control, Bomber												
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		ACP	4		CH'D	DWG.TITLE	DRAWING INDEX												
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		ACP	2		SCALE: N.T.S.	PART NO.	MAJOR REV. MINOR REV. SHEET												

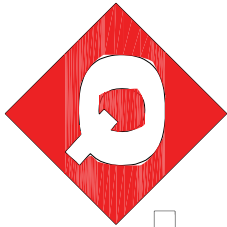




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	ACP	6		08/13	JOB TITLE	Electrical Control, Bomber
	ACP	5		DRN ACP	JOB NO.	
	ACP	4		CH'D ACP	DWG. TITLE	120 VAC HEATER WIRING
	ACP	3		SCALE: N.T.S.	PART NO.	
	ACP	2			MAJOR REV.	MINOR REV.
						SHEET

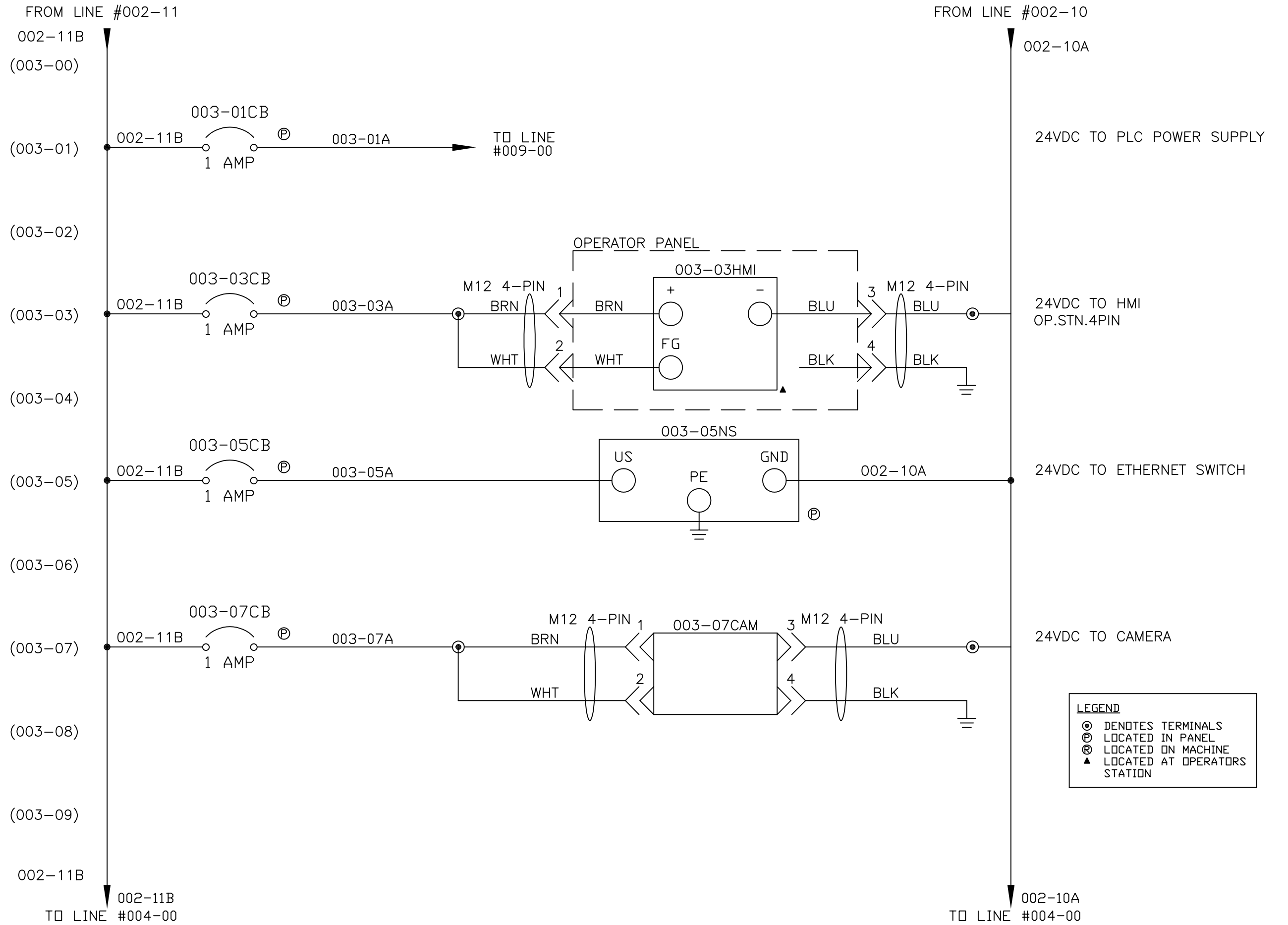


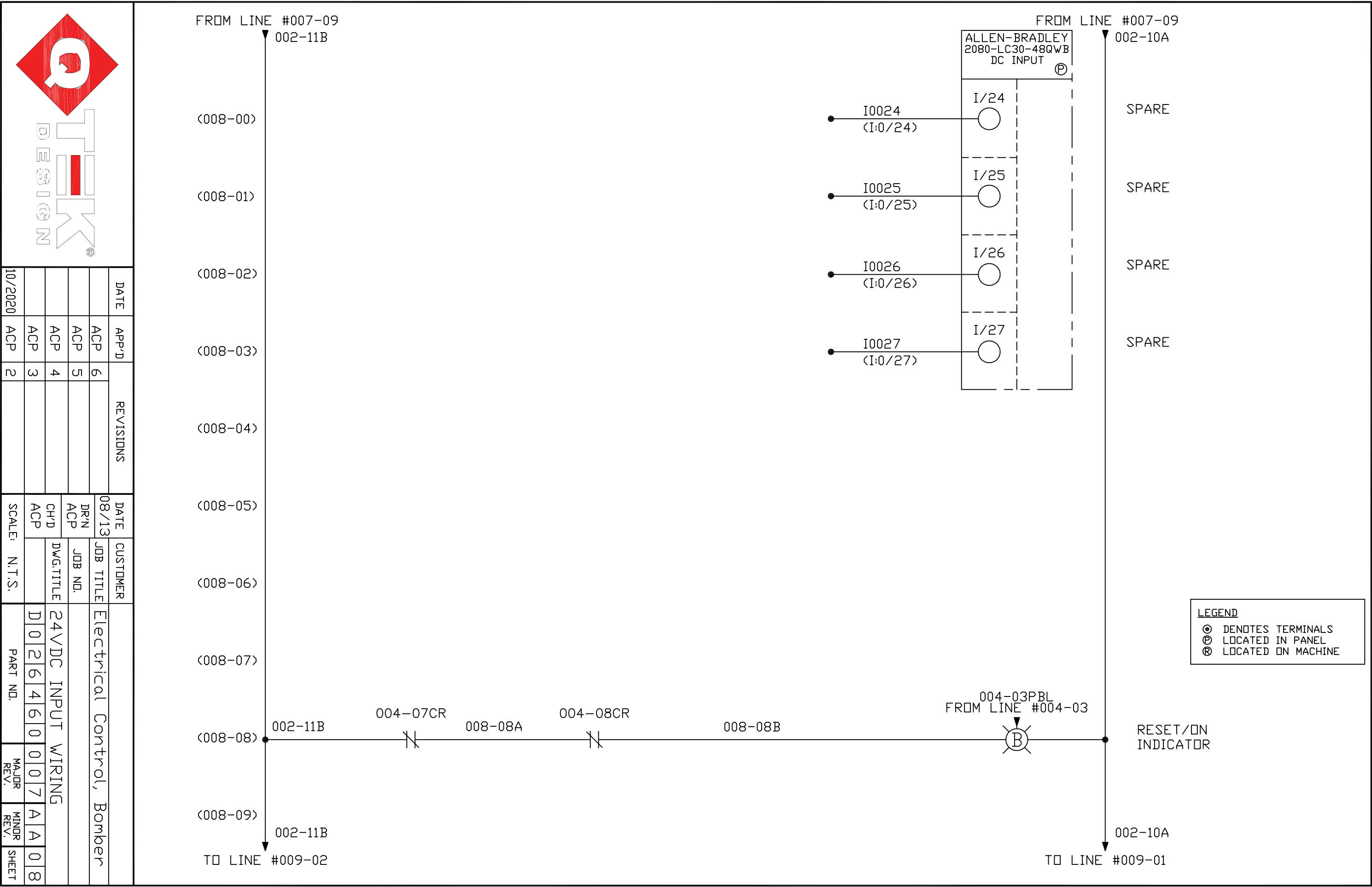
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		ACP	6		10/23	JOB TITLE	Electrical Control, Bomber
		ACP	5		DRN ACP	JOB NO.	
		ACP	4		CH'D ACP	DWG. TITLE	120 VAC CONTROL WIRING
		ACP	3		ACP		
		ACP	2		SCALE: N.T.S.	PART NO.	MAJOR REV. MINOR REV. SHEET

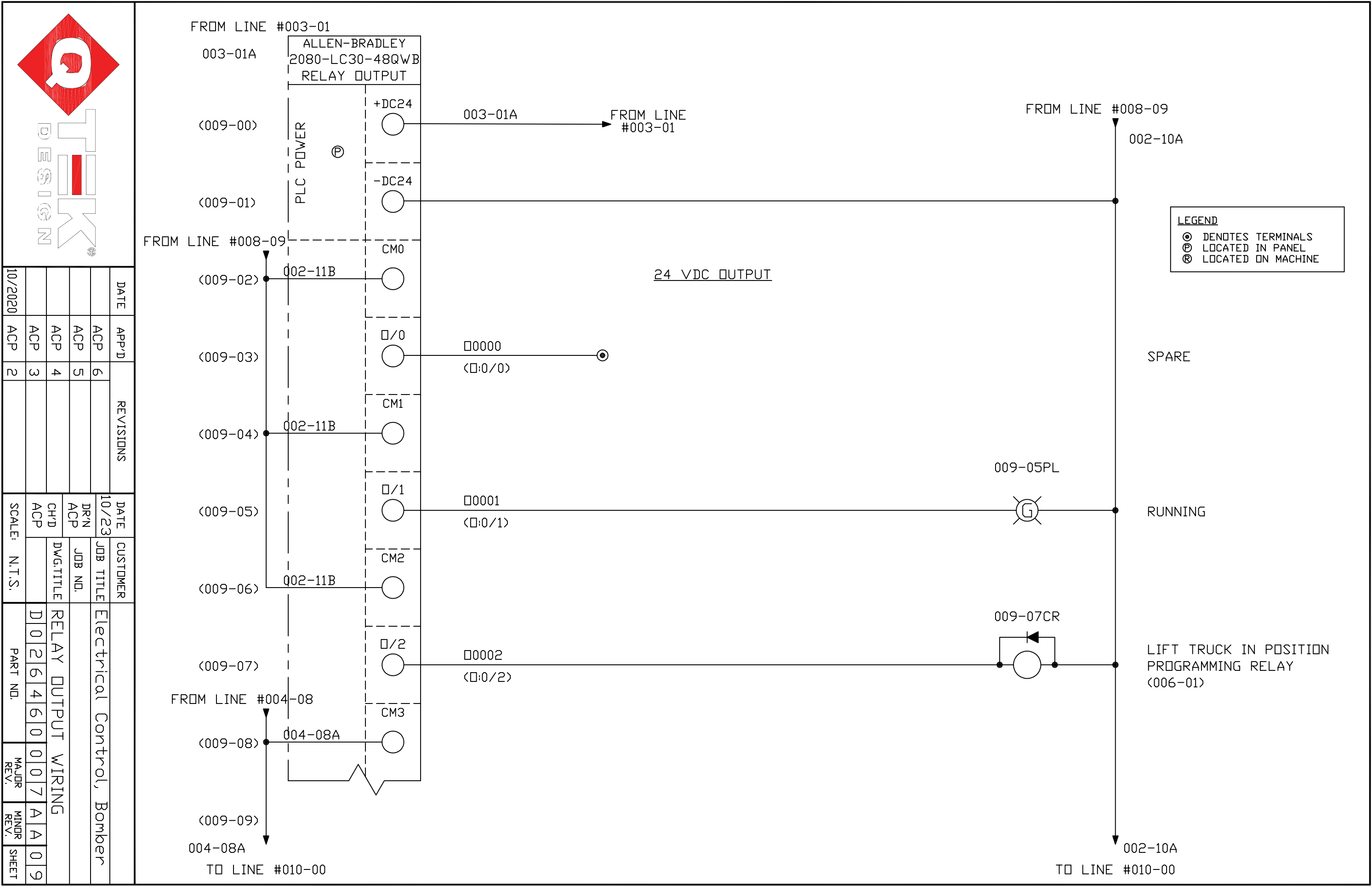


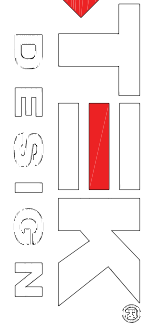
TEK
DESIGN

DATE		APP'D		REVISIONS	
ACP	6	ACP	5		
ACP	4	ACP	3		
ACP	2	ACP			
DATE		CUSTOMER		PART NO.	
10/23		JOB TITLE			
DRN		JOB NO.			
ACP					
CH'D		DWG. TITLE			
ACP					
SCALE:	N.T.S.				
MAJOR REV.					
MINOR REV.					
SHEET					

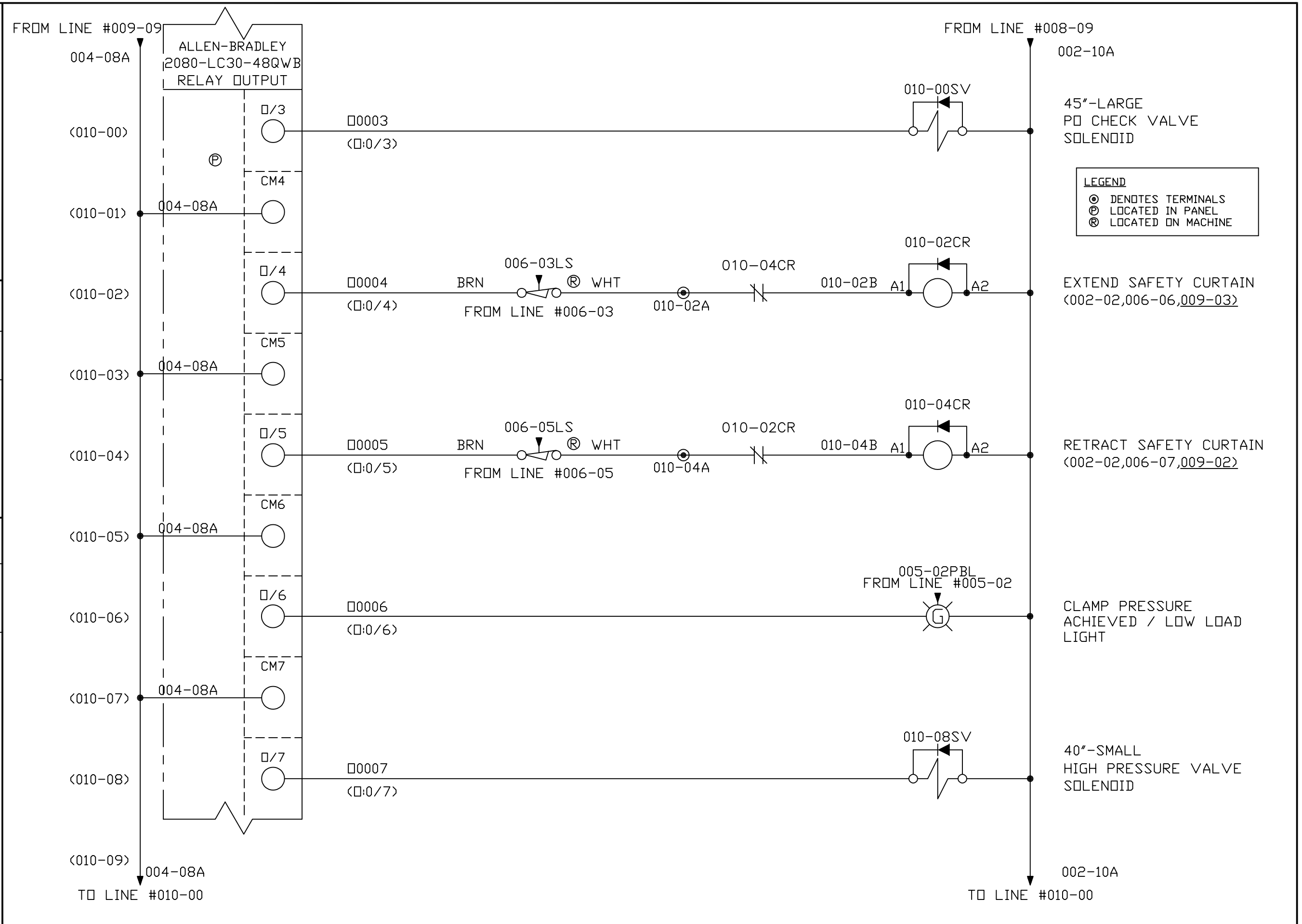


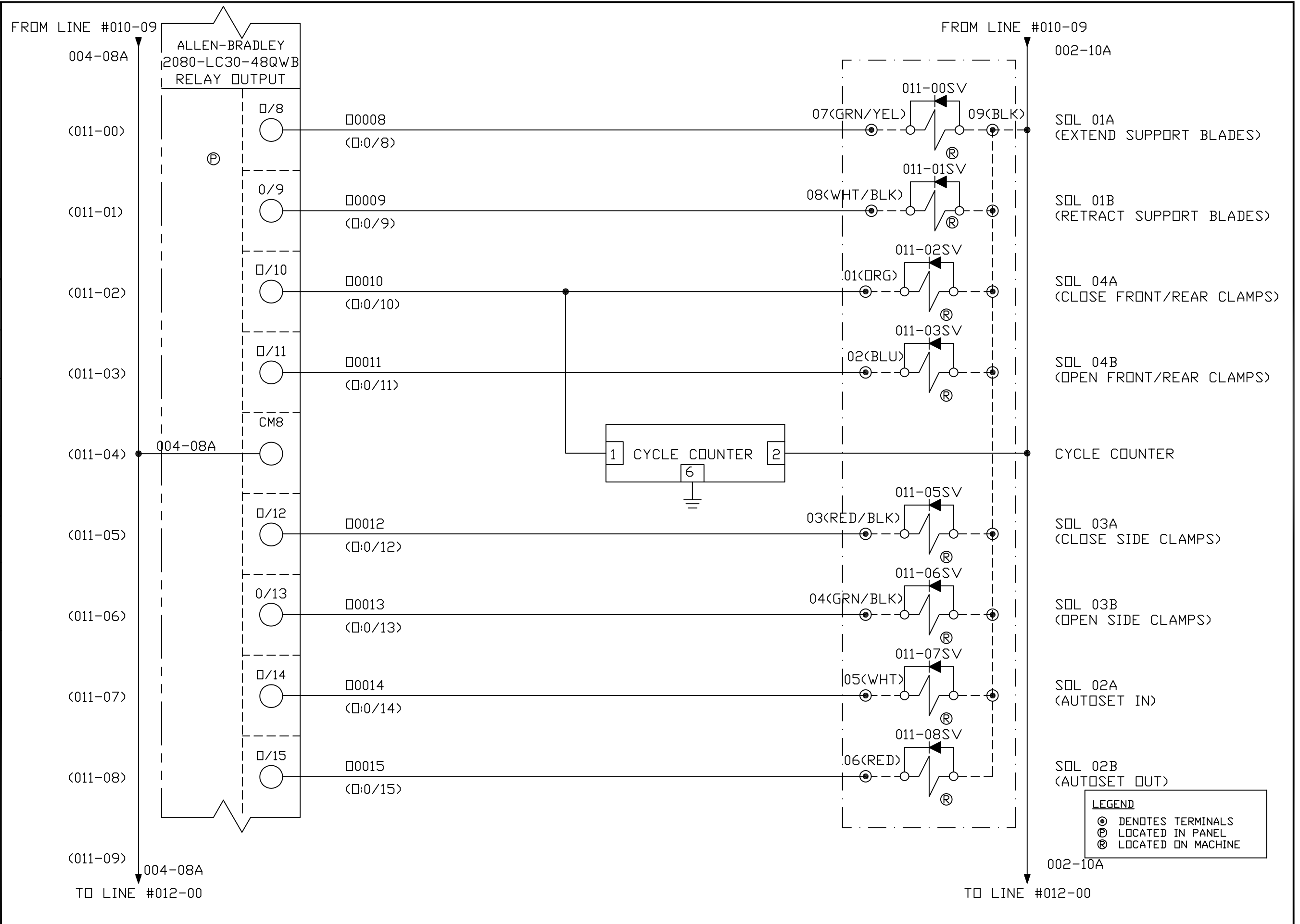
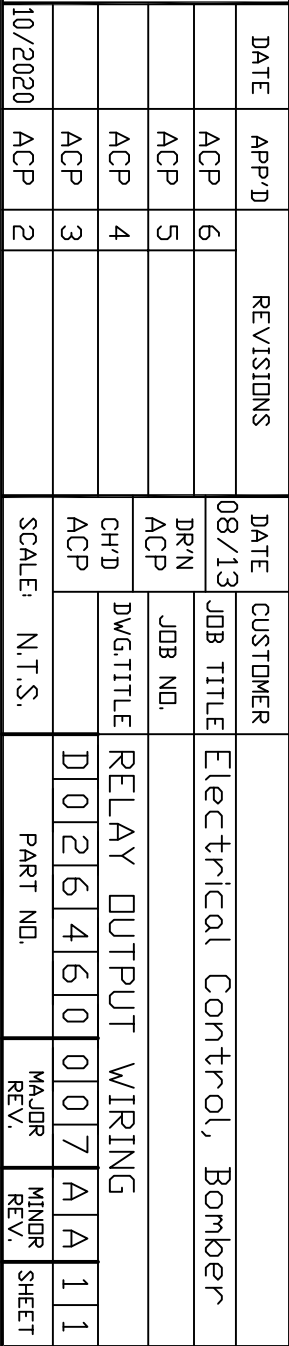






DATE	APP'D	REVISIONS		DATE	CUSTOMER															
	ACP	6		10/23	JOB TITLE		Electrical Control, Bomber													
	ACP	5		DRN ACP	JOB ND.															
	ACP	4		CH'D ACP	DWG.TITLE		RELAY OUTPUT WIRING													
	ACP	3					D	0	2	6	4	6	0	0	0	7	A	A	1	0
10/2020	ACP	2		SCALE: N.T.S.	PART ND.		MAJOR REV. MINOR REV. SHEET													





DATE	APP'D	REVISIONS	
10/2020	ACP	2	
	ACP	3	
	ACP	4	
	ACP	5	
	ACP	6	

DATE	CUSTOMER
10/23	Electrical Control, Bomber

SCALE:	PART NO.
N.T.S.	

ITEM	QUANTITY	MAN.	DESCRIPTION	PART NUMBER
1	1	HAM	CUSTOM CUTOUTS JUNCTION BOX (1436S)	SE2302439
2	1	AB	GREEN ILLUMINATED PUSH BUTTON	800FP-LF3
3	1	AB	E-STOP OPERATOR, TWIST RELEASE	800FP-MT44
4	1	AB	BLUE ILLUMINATED PUSH BUTTON	800FP-LF6
5	1	MURR	M12 M A-CODED 4-POLE BULKHEAD	7000-13502-9710100
6	1	MURR	M12 F D-CODED TO RJ45 ENET BULKHEAD	7000-44681-0000000
7	1	MENCOM	M12 12-POLE MALE BULKHEAD 2M	MDC-12MR-2-2M
8	1	MAPLE	7.0" BASE MODEL HMI	HMI5070BV3
9	3	AB	22MM ACCESSORY 800F	800F-ALP
10	1	AB	22MM LED MODULE, GREEN	800F-N3G
11	1	AB	22MM LED MODULE, WHITE	800F-N3W
12	2	AB	22MM CONTACT BLOCK (NC)	800F-X01
13	2	AB	22MM CONTACT BLOCK (NO)	800F-X10

1

2

3

4

8

EMERGENCY STOP

RESET

CLAMPS ON/OFF

GRN

BLU

NC: 004-03C
004-04A

NC: 004-02D
004-05A

NO: 002-11B
I0001

LIGHT: 00006
002-10A

NO: 004-03A
004-03E

LIGHT: 008-08B
002-10A

FRONT

5

6

7

BACK

CBL12:

CBL4:

PIN 01 - WHITE - 00006

PIN 01 - BROWN - 003-03A (24VDC)

PIN 02 - BROWN - 004-03A

PIN 02 - WHITE - 003-03A (24VDC)

PIN 03 - GREEN - GND

PIN 03 - BLUE - 002-10A (0VDC)

PIN 04 - YELLOW - 004-03E

PIN 04 - BLACK - GND

PIN 05 - GRAY - 004-03C

PIN 06 - PINK - 004-04A

PIN 07 - BLUE - 002-11B (24VDC)

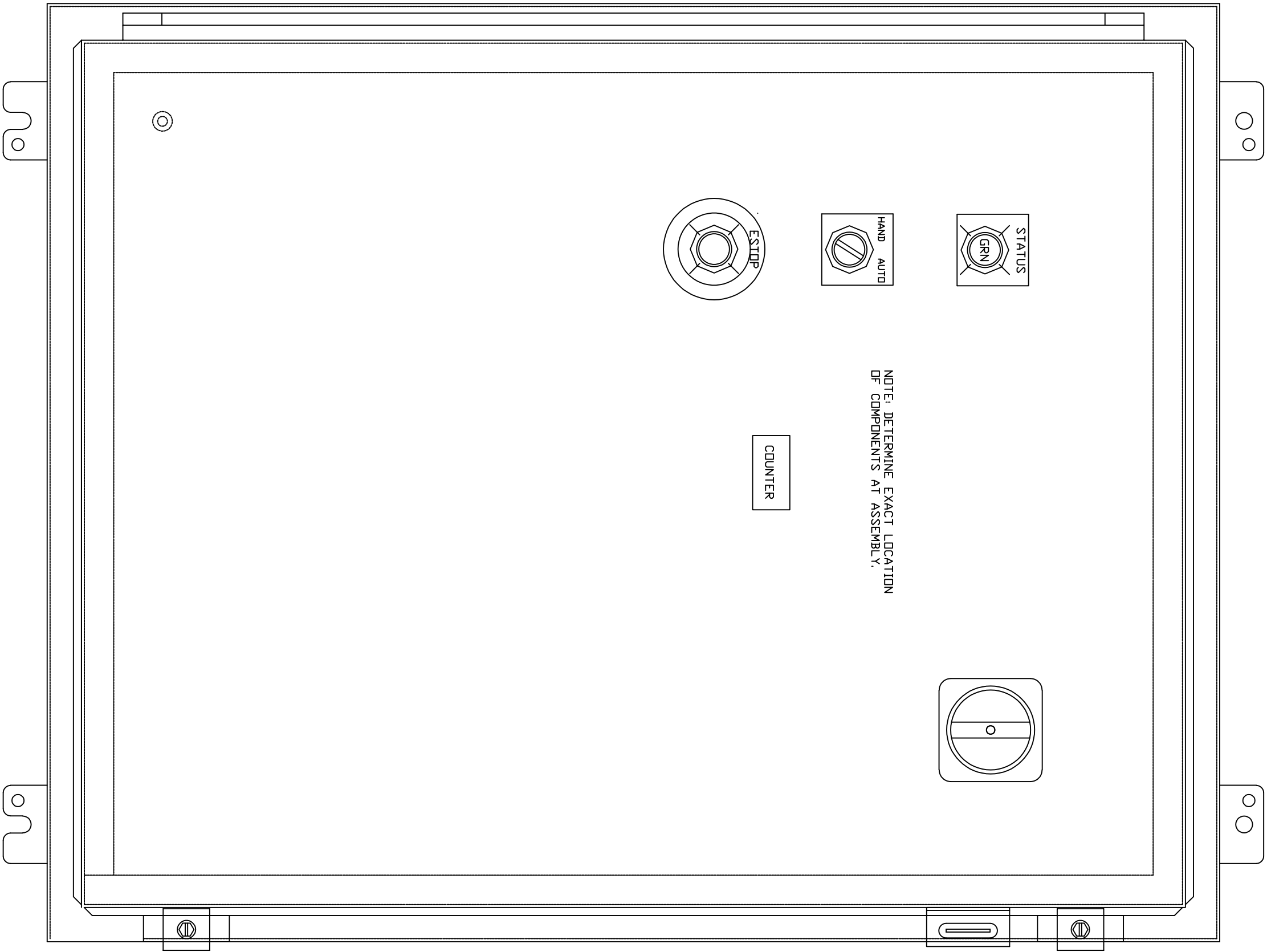
PIN 08 - RED - I0001

PIN 09 - ORANGE - 002-10A (0VDC)

PIN 10 - TAN - 008-08B

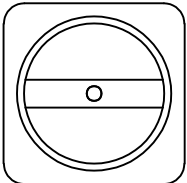
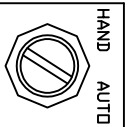
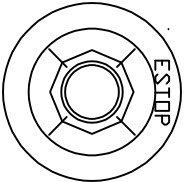
PIN 11 - BLACK - 004-02D


PIN 12 - VIOLET - 004-05A

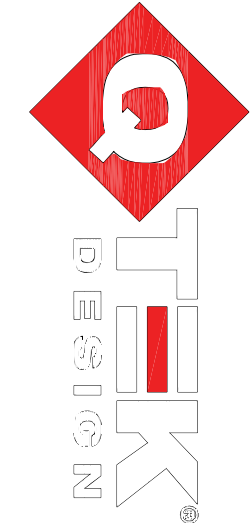


NOTE: DETERMINE EXACT LOCATION
OF COMPONENTS AT ASSEMBLY.

COUNTER



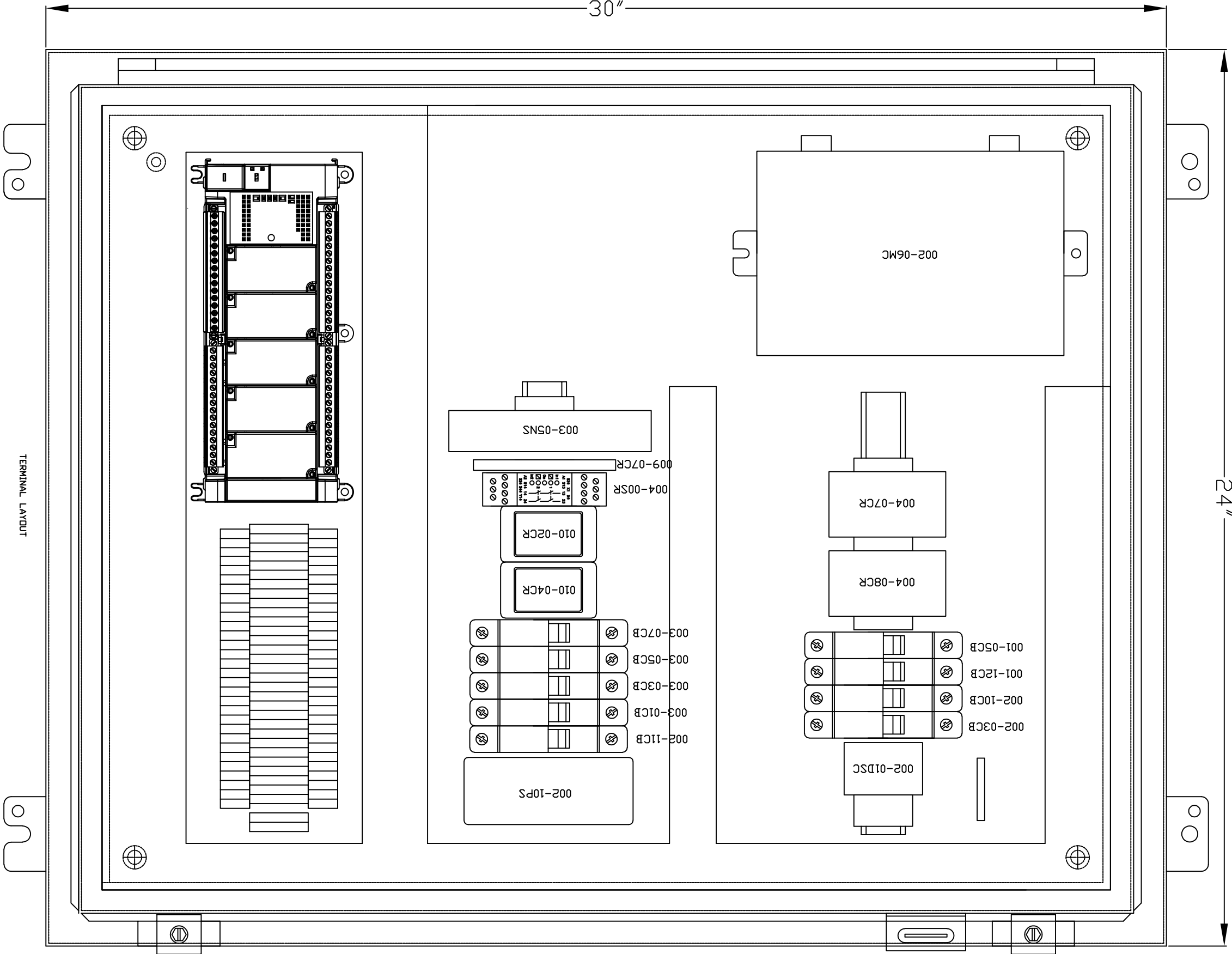
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		ACP	5			DRN ACP		JOB NO.																													
		ACP	4			CH'D ACP		DWG. TITLE		PANEL DOOR LAYOUT																											
		ACP	3							D		0		2		6		4		6		0		0		0		7		A		A		1		4	
		ACP	2			SCALE: N.T.S.		PART NO.		MAJOR REV.		MINOR REV.		SHEET																							



DATE		APP'D	REVISIONS		DATE	CUSTOMER	
		ACP	6		10/23	JOB TITLE	Electrical Control, Bomber
		ACP	5			JOB NO.	
		ACP	4			DWG. TITLE	PANEL BACKPLANE LAYOUT
		ACP	3				
08/13	ACP	2			SCALE: N.T.S.	PART NO.	MAJOR REV. MINOR REV. SHEET

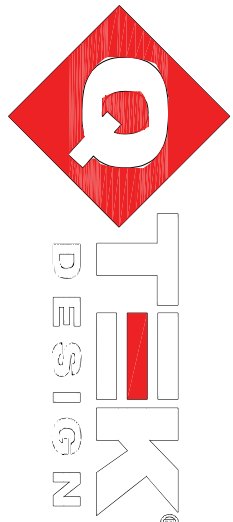
BOT	TOP
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002-10A	002-11B
002-10A	002-11B
002-10A	002-11B
002-10A	002-11B
002-10A	002-11B
002-10A	002-11B
002-10A	002-11B
003-03A	004-02E
003-07A	004-03D
004-02A	004-03E
004-02C	004-04A
004-02D	004-04B
004-03A	004-05A
004-03B	004-05B
004-03C	I0001
004-08A	I0002
004-08A	I0003
004-09A	I0004
008-08B	I0005
010-02A	I0006
010-04A	I0008
I0000	I0009
I0001	I0010
I0003	I0011
I0004	I0012
I0005	I0015
I0006	I0016
I0007	I0017
I0008	I0018
I0009	007-02A
I0010	I0019
I0011	007-02B
I0012	007-04A
I0013	I0020
I0014	007-04B
I0015	I0021
006-01A	I0016

002-06A1
002-07A2



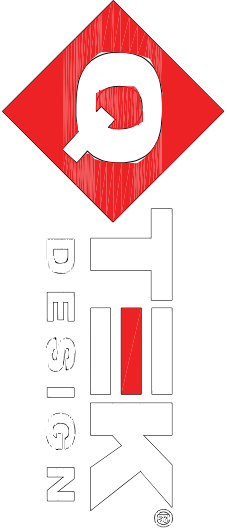
BILL OF MATERIAL

ITEM	QUANTITY	REFERENCE	MANUFACTURER	DESCRIPTION	PART NUMBER
1	1		KLASSENS	30"x24"x8" MILD STEEL ENCL. NEMA 12	CUSTOM
2	1		ABB	3 POLE, NON-FUSE, 25A, 20HP/600V	DT25F3
3	1		PENTA	KBPC SCR DRIVE - NEMA 4 2 HP 90V	KBRC-240D
4	4		SCHNIEDER	Multi C60BP UL489-MCB-1P-1A-C Curve	M9F42101
5	1		SCHNIEDER	Multi C60BP UL489-MCB-1P-2A-C Curve	M9F42102
6	1/3(op)		SCHNIEDER	Multi C60BP UL489-MCB-1P-15A-D Curve	M9F42115
7	1		SCHNIEDER	Multi C60BP UL489-MCB-1P-4A-C Curve	M9F42104
8	A/R		PANDUIT	WIRE DUCT TYPE F LT GRY 1X3	F1X3LG6/C1LG6
9	A/R		PANDUIT	WIRE DUCT TYPE F LT GRY 2X3	F2X3LG6/C2LG6
10	1		ALLEN BRADLEY	Micro830 PLC 48 I/D C/W ENET	2080-LC50E-48QWB
11	1		ALLEN BRADLEY	22.5mm GREEN ILLUMINATE PB	800FB-LF3
12	1		ALLEN BRADLEY	22.5mm ILL. PUSHBUTTON POWER MODULE	800FP-N3W
13	1		ALLEN BRADLEY	PUSHBUTTON CONTACT BLOCKS	800F-X10
14	1		ALLEN BRADLEY	22.5mm EMERGENCY STOP BUTTON	800FP-MT64
15	3		ALLEN BRADLEY	PUSHBUTTON CONTACT BLOCKS	800F-X01
16	1		ALLEN BRADLEY	22.5mm 2 POS. KEYED SELECTOR SWITCH	800FP-KM22
17	3		ALLEN BRADLEY	PUSHBUTTON LATCH	800F-ALP
18	5		PHOENIX	TERMINAL BLOCK	30444102
19	39		PHOENIX	TERMINAL BLOCK	30444636
20	2		PHOENIX	TERMINAL BLOCK END PLATE	3047293
21	16		PHOENIX	ENDSTOP	3022276
22	3		PHOENIX	TERMINAL BLOCK ENDPLATE	3047028
23	2		PHOENIX	2 POLE JUMPER (RED)	3030161
24	2		PHOENIX	10 POLE JUMPER (RED)	3030213
25	2		PHOENIX	2 POLE JUMPER (BLUE)	3036877
26	1		PHOENIX	TRID-PS/24VDC-5AMP	2866310
27	2		ALLEN-BRADLEY	CONTACTOR-ELECTRONIC	100-C16E J01
28	1		ABB	DISCONNECT HANDLE	DHB45J6
29	1		ABB	DISCONNECT SHAFT	DXP6X290
30	A/R		PHOENIX	DIN RAIL 35X7.5	0801733
31	1		ALLEN BRADLEY	22.5mm GREEN PILOT LIGHT	800FP-P3
32	1		GRACEPORT	RJ45 BULKHEAD COUPLER	N206-BC01-1ND
33	1		ALLEN BRADLEY	SAFETY RELAY	440R-N23114
34	2		ALLEN BRADLEY	CONTROL RELAY	700-HA33Z24-3-4
35	2		ALLEN BRADLEY	CONTROL RELAY BASE	700-HN101
36	1		BAUMER	TOTALIZER COUNTER	IS130.013AA01
37	2		HAMMOND MFG	100W RESISTOR HEATER (OPTIONAL)	SHG14007
38	2		STEGO	FIXED THERMOSTAT (OPTIONAL)	01160.0-00
39	1		ALLEN BRADLEY	CONTROL RELAY, TB STYLE 24VDC SPDT	700-HLT1Z24
40	1		PHOENIX	5-PORT UNMANAGED ETHERNET SWITCH	1085039
41	1		BAUMER	DIFFUSE SENSORS	DT500.GL-PLPLB.72F
42	2		ALLEN BRADLEY	AUXILIARY CONTACT 1ND 1NC	100-FA11
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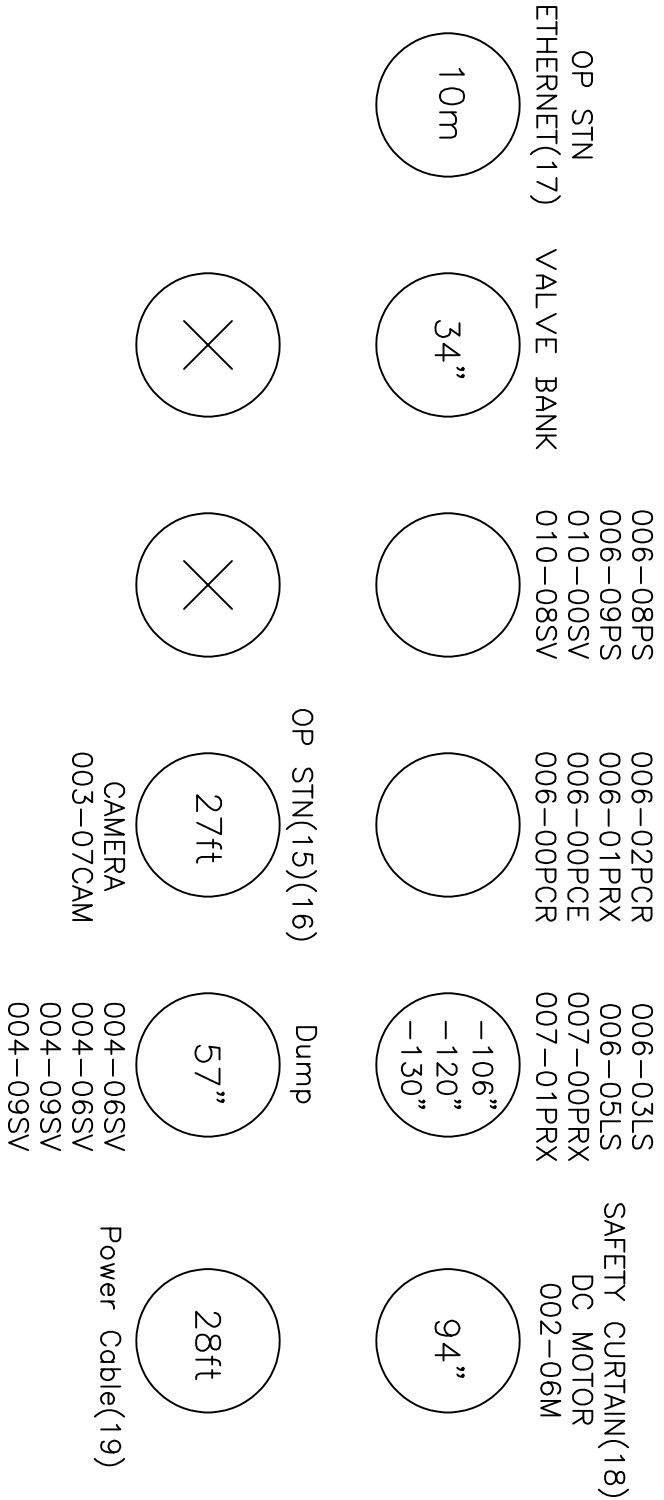
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		RH	6																
		RH	5																
		RH	4																
		RH	3																
		RH	2																
DATE		CUSTOMER																	
10/23		JTB TITLE	Electrical Control, Bomber																
DRN		JOB NO.																	
RH		DWG. TITLE	BOM - MAIN PANEL																
CH'D			D	0	2	6	4	6	0	0	0	7	A	A	1	7			
RH																			
SCALE:		N.T.S.																	

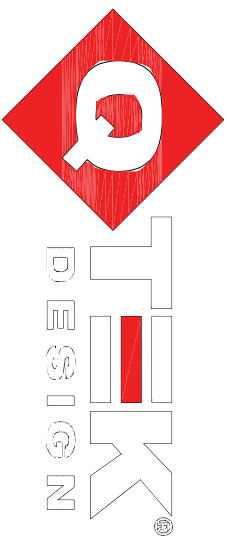
BILL OF MATERIAL

ITEM	QUANTITY	REFERENCE	MANUFACTURER	DESCRIPTION	PART NUMBER
1	1		PHOENIX	4 pin M12 STR 10M CORDSET	1683002
2	1		MURR	3 pin VALE CABLE	7000-11081-6160500
3	3		PHOENIX	3 pin VALVE CABLE	1415943
4	1		PHOENIX	8 pin M12 STR 10M CORDSET	1520372
5	1		HUBBELL	120VAC MALE PLUG (YELLOW)	HBL5965VY
6	1		ALLEN-BRADLEY	18MM BARREL PE THROUGH BEAM REC	42CA-R1MPA1-D4
7	1		ALLEN-BRADLEY	18MM BARREL PE THROUGH BEAM EMT	42CA-E1E2B1-C4
8	4		PHOENIX	4 PIN M12 90 DEG 5M CORDSET	1668247
9	1		PHOENIX	4 PIN M12 90 DEG 10M CORDSET	1681389
10	5		PHOENIX	4 PIN M12 STR 5M CORDSET	1668124
11	1		PHOENIX	5 PIN M12 STR 5M CORDSET	1669848
12	2		PHOENIX	3 PIN M8 STR 5M CORDSET	1669628
13	1		MENCOM	12 PIN MICRO STR 10M CORDSET	MDCM-12MFP-10-B
14	1		MENCOM	4 PIN MICRO 10M CORDSET	MDCM-4FP-10M
15	2		DMRON	18MM BARREL SHIELDED PROX 8MM PNP	E2A-M18KS08-M1-B1
16	2		DMRON	LIMIT SW. DPDT 7DEG MAKE(PREWired)	D4A-110-2N
17	2		DMRON	LIMIT SWITCH ADJUST ROLLER ARM	D4A-C00
18	1		BANNER ENG.	MAGNETORESISTIVE SENSOR	S18MBQ
19	1		BAUMER	DIFFUSE SENSORS	DT500.GL-PLPLB.72F
20	1		ALLEN BRADLEY	MINI CABLE 9PIN/12M/FEMALE	889N-F9AF-2
21					
22					
23					
24					
25					

	DATE	APP'D	REVISIONS		DATE	CUSTOMER														
		RH	6		10/23	JOB TITLE	Electrical Control, Bomber													
		RH	5		DRN RH	JOB NO.														
		RH	4		CH'D	DWG.TITLE	BOM - FIELD DEVICES													
		RH	3		RH		D	0	2	6	4	6	0	0	0	7	A	A	1	8
		RH	2		SCALE:	N.T.S.	PART NO.					MAJOR REV.	MINOR REV.		SHEET					

CABLE NUMBER	CABLE DESCRIPTION	CABLE TYPE	LENGTH (INCHES)
19	POWER CABLE	14/3 CAB	28'
18	002-06M INCOMING POWER CABLE	14/3 CAB	94"
5	006-00PCE SAFETY CURTAIN CLEAR EMITTER	1681389	230'
4	006-00PCR SAFETY CURTAIN CLEAR RECEIVER	1668247	180"
1	006-01PRX LIFT TRUCK IN POSITION	1668124	125"
3	006-03LS SAFETY CURTAIN EXTEND DT	1668124	106"
3	006-05LS SAFETY CURTAIN RETRACT DT	1668124	106"
9	006-08PS LOW PRESSURE SWITCH	1669628	45"
9	006-09PS HIGH PRESSURE SWITCH	1669628	45"
2	007-00PRX SAFETY CURTAIN EXTENDED	1668247	130"
2	007-01PRX SAFETY CURTAIN RETRACTED	1668247	120"
8	010-00SV PD CHECK VALVE	70000-11081-6160500	45"
7	010-08SV HIGH PRESSURE VALVE SOLENOID	1415943	40"
6	VALVE BANK VALVE BANK CABLE	889W-F9AF-2	34"
15	DP-STN-4PIN DP STATION 4 PIN CABLE	1683002	27'
16	DP-STN-12PIN DP STATION 12 PIN CABLE	MDCM-12FP-10M-B	27'
17	DP-STN-ENET DP STATION ETHERNET CABLE	7000-44711-7961000	27'
10	003-07CAM 24 VDC CAMERA POWER	1668124	10M
11	004-06SDL DUMP VALVE SOLENOID	1415943	84"
12	004-09SDL DUMP VALVE SOLENOID	1415943	84"
13	004-06LS DUMP VALVE LIMIT SWITCH	1668124	84"
14	004-09LS DUMP VALVE LIMIT SWITCH	1668124	84"
15	006-02PCR LIFT TRUCK IN POSITION (PE)	1668247	27"





DATE	APP'D	REVISIONS	DATE	CUSTOMER
	ACP	6	10/23	JOB TITLE
	ACP	5	DRN ACP	JOB NO.
	ACP	4	CH'D ACP	DWG TITLE
	ACP	3	ACP	
	ACP	2	SCALE: N.T.S.	PART NO.

MAJOR REV.

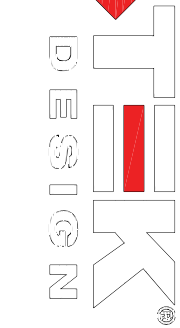
MINOR REV.

SHEET

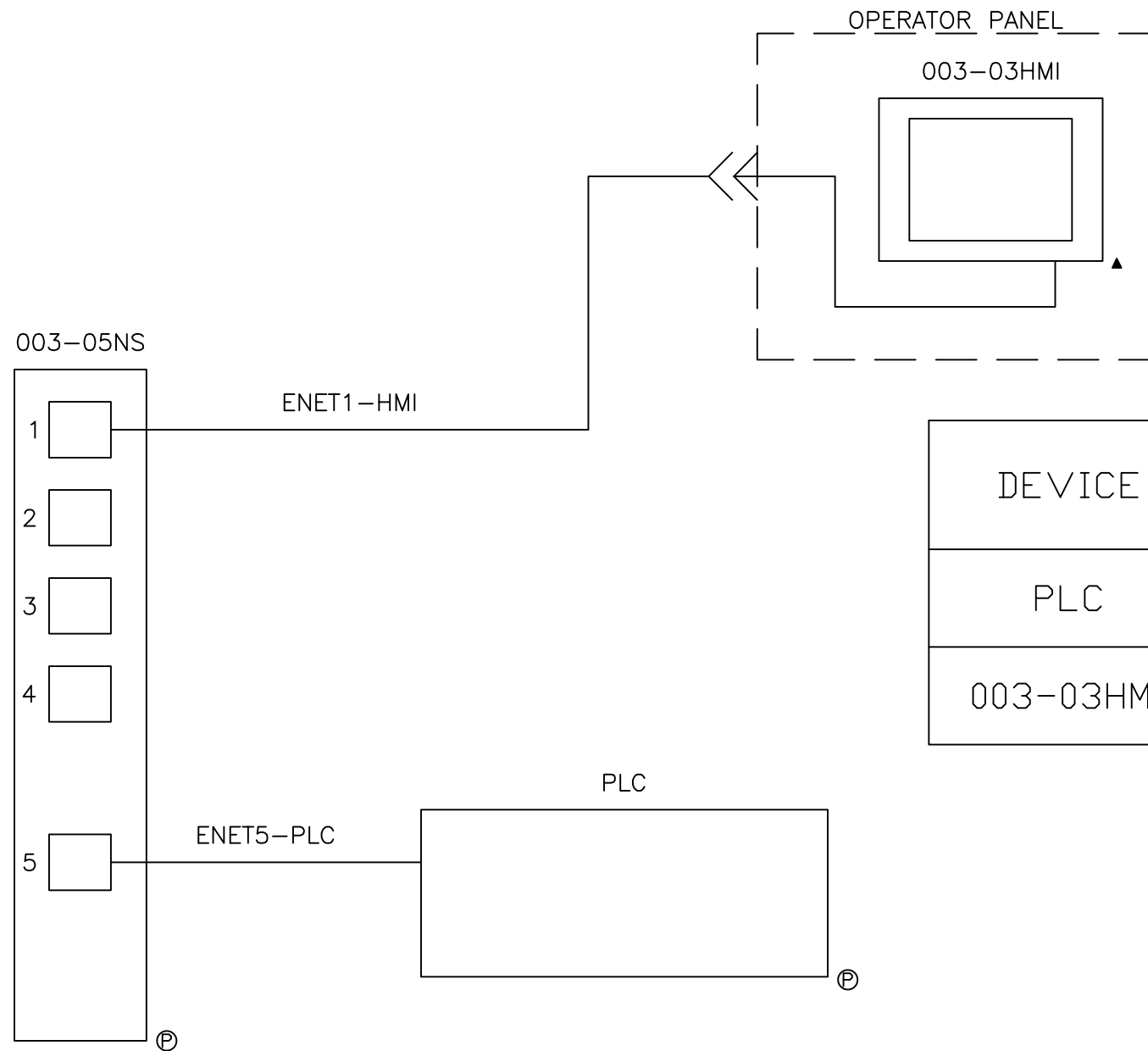
Electrical Control, Bomber

CABLE WIRING CHART

D026460007AA19



DATE	APP'D	REVISIONS		DATE	CUSTOMER														
	ACP	6		10/23	JOB TITLE	Electrical Control, BOMBER													
	ACP	5		DRN ACP	JOB NO.														
	ACP	4		CH'D ACP	DWG. TITLE	NETWORK LAYOUT													
	ACP	3				D	0	2	6	4	6	0	0	0	7	A	A	2	0
	ACP	2		SCALE:	N.T.S.	PART NO.				MAJOR REV.		MINOR REV.		SHEET					



DEVICE	IP ADDRESS	PROGRAM NAME	PROGRAM REV
PLC	192.168.1.5	D026460_PLC	V0_01
003-03HMI	192.168.1.10	D026460_HMI	V0_01

LEGEND

⊙	DENOTES	TERMINALS
Ⓟ	LOCATED	IN PANEL
Ⓡ	LOCATED	ON MACHINE
▲	LOCATED	AT OPERATORS STATION