

TERMINAL TYPES:

- #

HONEYWELL
RM 7800
SUBBASE
- #

COMPRESSION
- #

MOLEX
CONNECTOR
- #

MALE SPADE
TERMINAL
- #

FEMALE SPADE
TERMINAL
- #

RJ11 OR RJ45
CONNECTOR

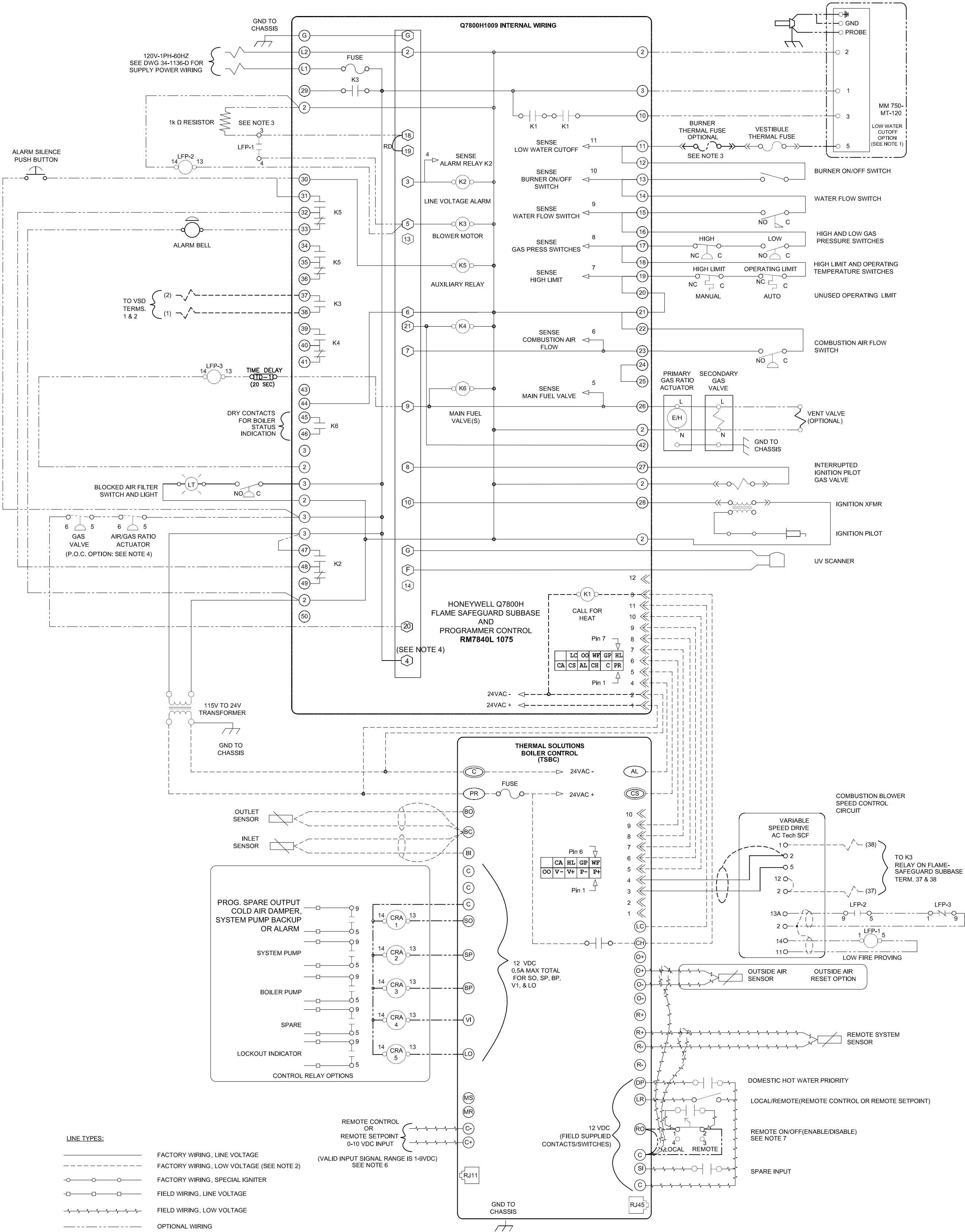
RELAY / SWITCH
TERMINALS:
C = COMMON
NC = NORM. CLOSED
NO = NORM. OPEN

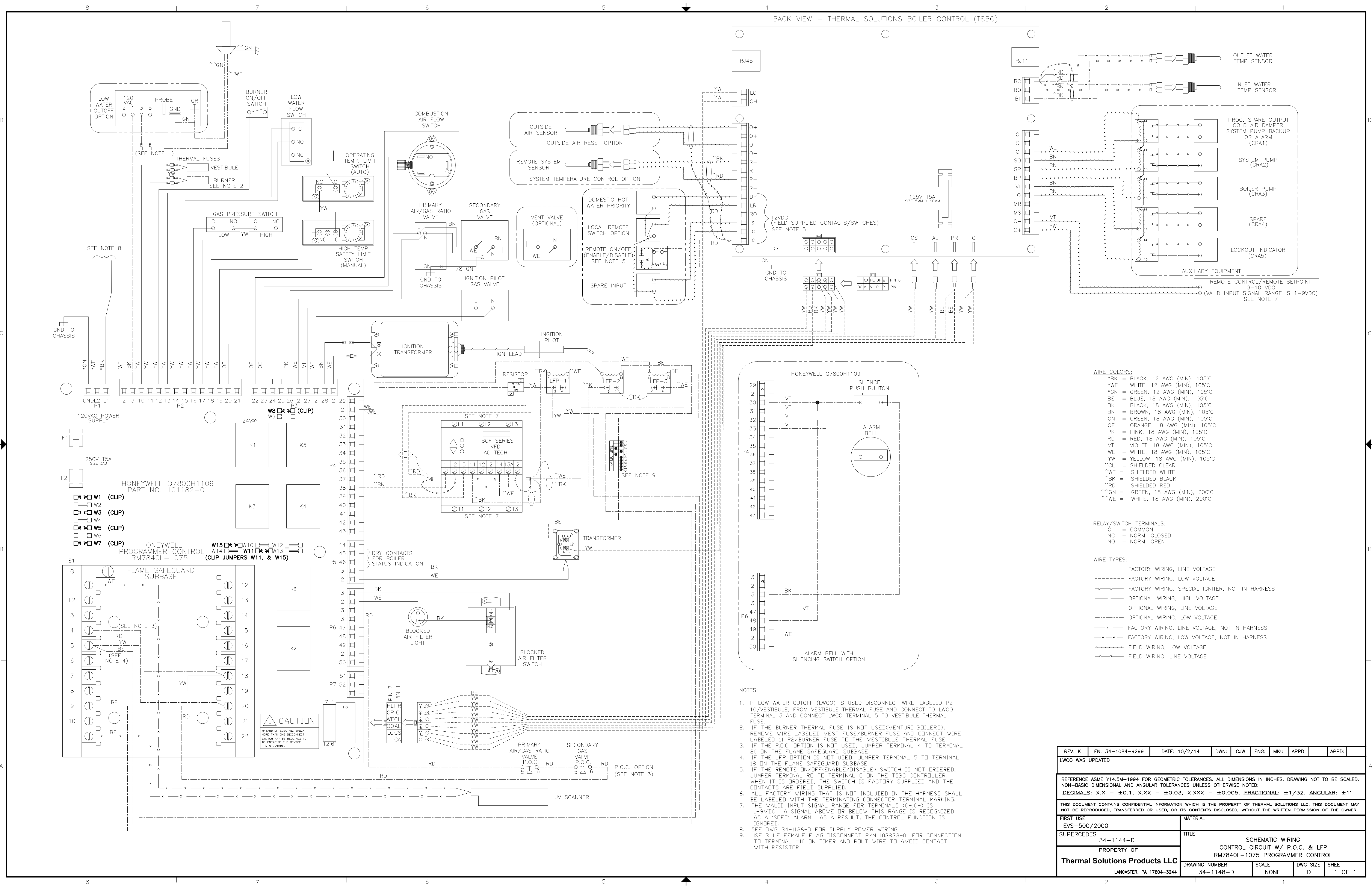
REV: 0	EN: 34-1084-9299	DATE: 10/2/14	DWN:	CJW	CHKD:	MKU	APPD:	APPD:
LWCO WAS UPDATED								

Thermal Solutions Products LLC PROPERTY OF LANCASTER, PA 17604-3244	TITLE CONTROL CIRCUIT W/ P.O.C. & L.F.P. RM7840L 1075 PROGRAMMER CONTROL: EYS-500/2000	SUPERCEDES: 34-1143-C	REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED. NON-BASIC DIMENSIONAL AND ANGULAR TOLERANCES UNLESS OTHERWISE NOTED: DECIMALS: X.X - ±0.1, X.XX - ±0.03, X.XXX - ±0.005, FRACTIONAL: ±1/32, ANGULAR: ±1°
DRAWING NUMBER 34-1147-C	SCALE NONE	DWG SIZE C	SHEET 1 OF 1

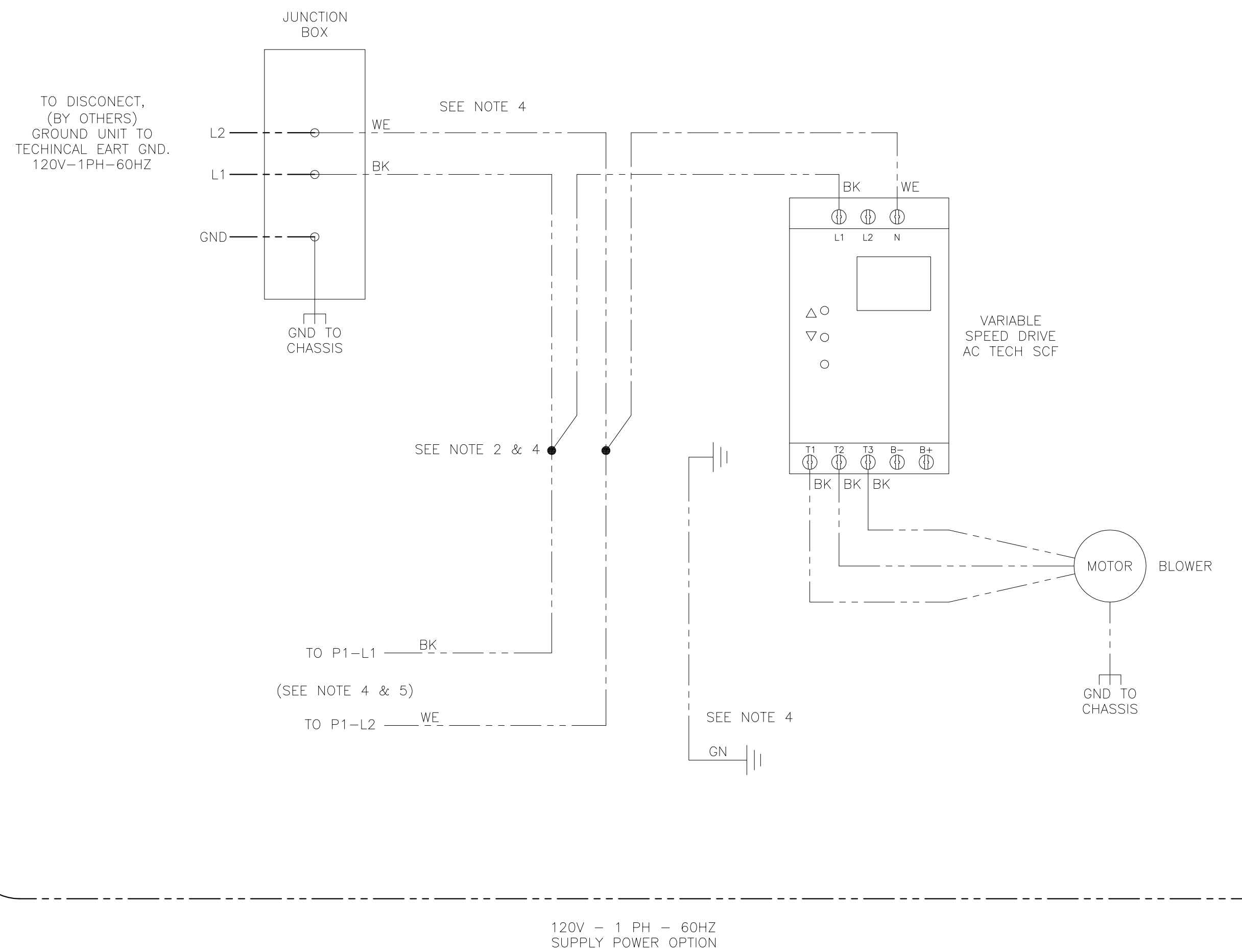
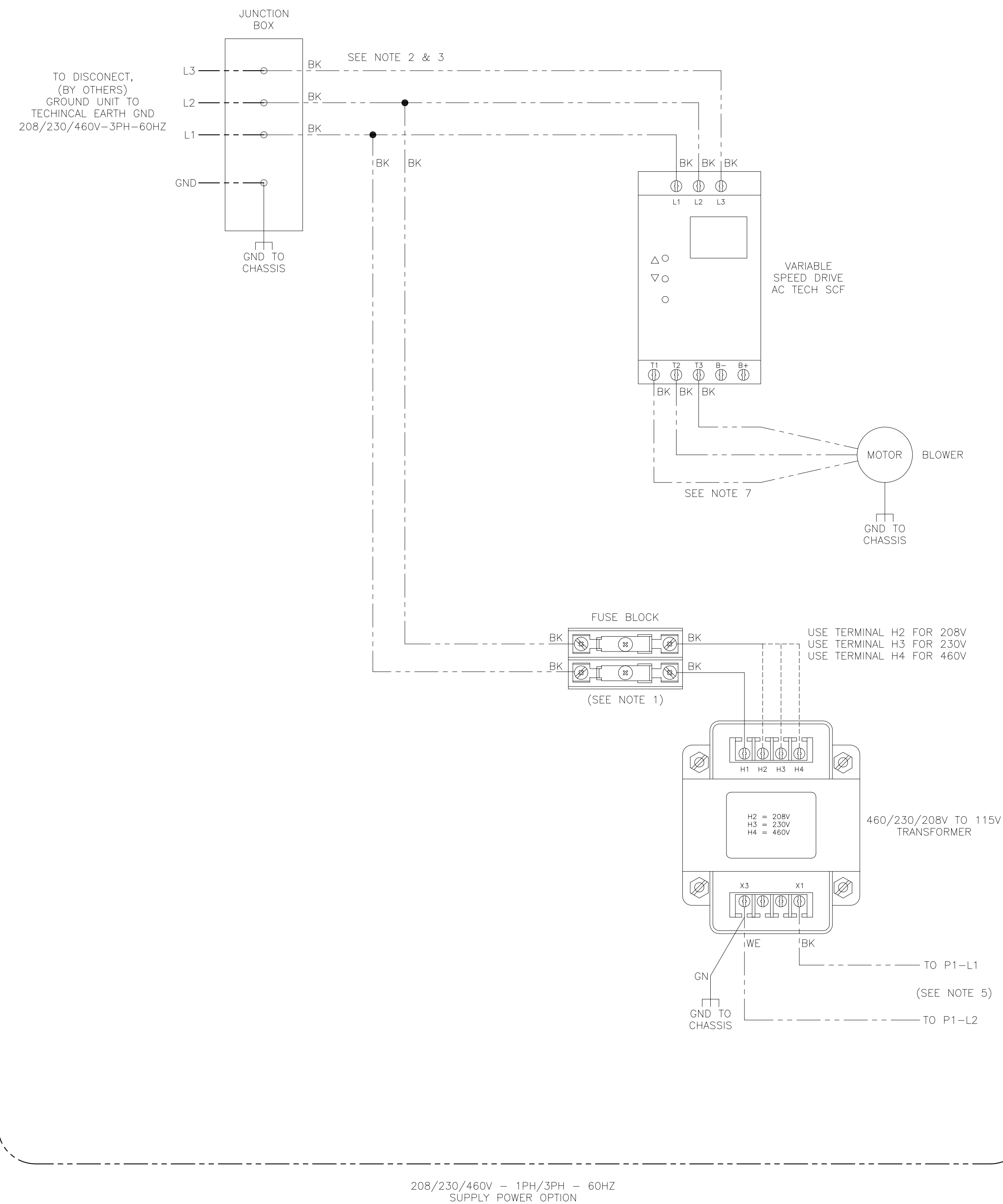
- NOTES:
- IF LOW WATER CUTOFF (LWCO) IS USED DISCONNECT WIRE, LABELED P2 10/VESTIBULE, FROM VESTIBULE THERMAL FUSE AND CONNECT TO LWCO TERMINAL 3 AND CONNECT LWCO TERMINAL 5 TO VESTIBULE THERMAL FUSE.
 - FACTORY WIRING, LOW VOLTAGE IS 24VAC UNLESS OTHERWISE INDICATED.
 - IF THE BURNER THERMAL FUSE IS NOT USED(VENTURI BOILERS), REMOVE WIRE LABELED VEST FUSE/BURNER FUSE AND CONNECT WIRE LABELED 11 P2/BURNER FUSE TO THE VESTIBULE THERMAL FUSE.
 - IF THE P.O.C. OPTION IS NOT USED, JUMPER TERMINAL 4 TO TERMINAL 20 ON THE FLAME SAFEGUARD SUBBASE.
 - IF THE LFP OPTION IS NOT USED, JUMPER TERMINAL 5 TO TERMINAL 18 ON THE FLAME SAFEGUARD SUBBASE.

- THE VALID INPUT SIGNAL RANGE FOR TERMINALS (C+,C-) IS 1-9VDC. A SIGNAL ABOVE OR BELOW THIS RANGE IS RECOGNIZED AS A 'SOFT' ALARM. AS A RESULT, THE CONTROL FUNCTION IS IGNORED.
- IF THE REMOTE ON/OFF(ENABLE/DISABLE) SWITCH IS NOT ORDERED, JUMPER TERMINAL RD TO TERMINAL C ON THE TSBC. WHEN IT IS ORDERED, THE SWITCH IS FACTORY SUPPLIED AND THE CONTACTS ARE FIELD SUPPLIED.





REV: K	EN: 34-1084-9299	DATE: 10/2/14	DWN: CJW	ENG: MKU	APPD:	APPD:
LWCO WAS UPDATED						
REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED. NON-BASIC DIMENSIONAL AND ANGULAR TOLERANCES UNLESS OTHERWISE NOTED: DECIMALS: X.X - ±0.1, X.XX - ±0.03, X.XXX - ±0.005. FRACTIONAL: ±1/32. ANGULAR: ±1°						
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FIRST USE EVS-500/2000			MATERIAL			
SUPERCEDES			TITLE			
PROPERTY OF Thermal Solutions Products LLC			34-1144-D SCHEMATIC WIRING CONTROL CIRCUIT W/ P.O.C. & LFP RM7840L-1075 PROGRAMMER CONTROL			
LANCASTER, PA 17604-3244			DRAWING NUMBER	SCALE	DWG SIZE	SHEET
			34-1148-D	NONE	D	1 OF 1



NOTES:

1. UL CLASS 'CC' CARTRIDGE FUSE TIME
DELAY, 600V AC, 200K I.R., 3 AMP.
2. USE SPRING CAGE CONNECTORS (PN 81368915) FOR WIRE JUNCTIONS.
3. IF SINGLE PHASE ELECTRICAL INPUT (PN IS USED, L3 IF NOT USED
4. FOR 120V-1PH ONLY:
 - A. REMOVE FORKED CONNECTOR FROM BK WIRE LABELED L1-P1/115V XFMR
X1 AND COMBINE INTO CONNECTOR AS SHOWN.
 - B. CLIP AND REMOVE WE WIRE LABELED L2-P1/115V XFMR X3 FROM FORKED
CONNECTOR AND COMBINE INTO CONNECTOR AS SHOWN.
 - C. SECURE FORKED END AND RING TERMINAL END OF GN WIRE LABELED 115V
XFMR GND/X3 TO THE CONTROL PANEL ASSEMBLY.
5. FOR CONTROL CIRCUIT WIRING, USE THE FOLLOWING DWGS:
SCHEMATIC:

34-1134-D STANDARD	} EVS-500/2000
34-1148-D P.O.C. OPTION	
34-1178-D STANDARD	
34-1179-D P.O.C. OPTION	} EVS-2000S/3000

LADDER:

34-1135-C STANDARD	} EVS-500/2000
34-1147-C P.O.C. OPTION	
34-1180-C STANDARD	
34-1181-C P.O.C. OPTION	} EVS-2000S/3000
6. ALL WIRING SHALL BE LABELED WITH THE TERMINATING CONNECTOR TERMINAL
MARKING
7. FOR 3 PHASE INPUT, THE LEAD WIRES MUST BE REVERSED AS SHOWN BELOW
TO GET PROPER MOTOR ROTATION
 - >L1 TO T2
 - >L2 TO T1
 - >L3 TO T3

WIRING LEGEND

— — — — FACTORY WIRING, 12 AWG, 600V, 105°C
———— FACTORY WIRING, 18 AWG, 600V, 105°C

REV: H	EN: 34-1112-9677	DATE: 02/26/15	DWN:	CJW	ENG:	MKU	APPD:	APPD:
DESCRIPTION: ADDED NOTE 7								
REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED. NON-BASIC DIMENSIONAL AND ANGULAR TOLERANCES UNLESS OTHERWISE NOTED:								
DECIMALS: X.X ± 0.1, X.XX ± 0.03, X.XXX ± 0.005. FRACTIONAL: ± 1/32. ANGULAR: ± 1'								
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FIRST USE EVS-500/3000			MATERIAL					
			TITLE					
PROPERTY OF			SCHEMATIC WIRING SUPPLY POWER					
Thermal Solutions Products LLC			DRAWING NUMBER			SCALE	DWG SIZE	SHEET
LANCASTER, PA 17604-3244			34-1136-D			NONE	D	1 OF 1