

I/O-1 BOARD

I/O 1
PIN FUNCTION

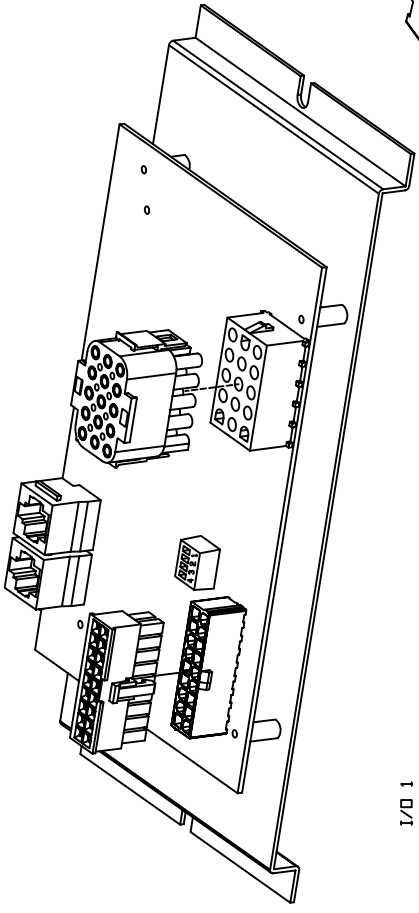
1. RELAY 1 OUTPUT FOR RELAY 1 COIL FOR ALL FACE/HEAD LAMPS AND SHOULDER TANNERS
2. RELAY 1 COMMON FOR RELAY 1 COIL FOR ALL FACE/HEAD LAMPS AND SHOULDER TANNERS
3. VARIABLE AC OUT FEED TO F6 BODY COOLING FAN
4. RELAY 2 OUTPUT FOR RELAY 2 COIL FOR ADDING IN 600W MORE WATTS FOR COL 2 FACE TANNER
5. RELAY 2 COMMON FOR RELAY 2 COIL FOR ADDING IN 600W MORE WATTS FOR COL 2 FACE TANNER
6. VARIABLE AC IN RETURN TO F6 BODY COOLING FAN
7. RELAY 3 OUTPUT FOR RELAY 3 COIL FOR TURNING ON/OFF COL 2 FACE TANNER
8. RELAY 3 COMMON FOR RELAY 3 COIL FOR TURNING ON/OFF COL 2 FACE TANNER
9. NO INTERNAL CONNECTION
10. RELAY 4 OUTPUT FOR RELAY 4 COIL FOR ADDING IN 600W MORE WATTS FOR COL 1 FACE TANNER
11. RELAY 4 COMMON FOR RELAY 4 COIL FOR ADDING IN 600W MORE WATTS FOR COL 1 FACE TANNER
12. LINE 2 IN AC RETURN POWER FOR I/O-1 BOARD
13. RELAY 5 OUTPUT FOR RELAY 5 COIL FOR TURNING ON/OFF COL 1 FACE TANNER
14. RELAY 5 COMMON FOR RELAY 5 COIL FOR TURNING ON/OFF COL 1 FACE TANNER
15. LINE 1 IN AC FEED POWER FOR I/O-1 BOARD

ALL DIP SWITCHES SHOULD BE SET TO OFF FOR I/O-1 BOARD

DIP SWITCHES

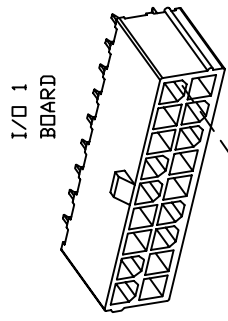
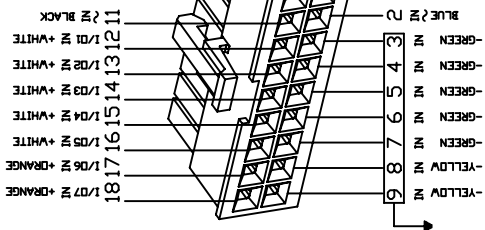


INTER BOARD COMMUNICATIONS PORTS
RJ-45 JACKS
RS-485

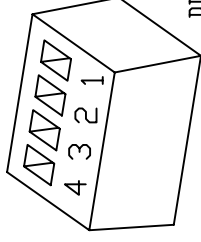


I/O 1
PIN FUNCTION

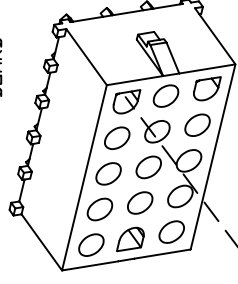
1. +12VDC OUT
2. CURRENT DONUT 2~
3. GND FOR I/O1, COL 1 SS TEMP
4. GND FOR I/O2, COL 2 SS TEMP
5. GND FOR I/O3, COL 3 SS TEMP
6. GND FOR I/O4, COL 3 SS TEMP
7. GND FOR I/O5, FRONT TRAY SS TEMP
8. GND FOR I/O6, HEAD END FILTER SWITCH
9. GND FOR I/O7, INPUT VOLTAGE SENSE
10. PWM GND
11. CURRENT DONUT 1~
12. +5 FOR I/O1, COL 1 SS TEMP
13. +5 FOR I/O2, COL 2 SS TEMP
14. +5 FOR I/O3, COL 3 SS TEMP
15. +5 FOR I/O4, COL 3 SS TEMP
16. +5 FOR I/O5, FRONT TRAY SS TEMP
17. +5 FOR I/O6, HEAD END FILTER SWITCH
18. +5 FOR I/O7, INPUT VOLTAGE SENSE



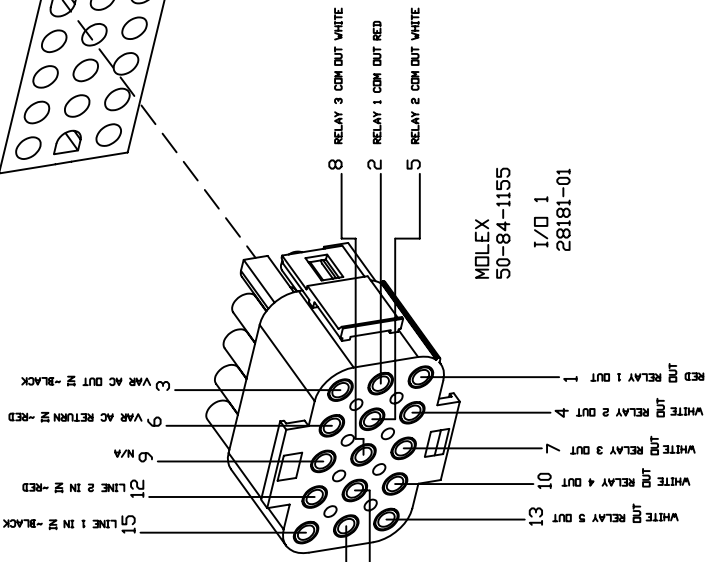
MOLEX
39-01-2185



I/O 1
BOARD



MOLEX
10-84-4152



RELAY 5 COM OUT WHITE 14
RELAY 4 COM OUT WHITE 11

MOLEX
50-84-1155

I/O 1
28181-01

I/O-2 BOARD

I/O 2
PIN FUNCTION

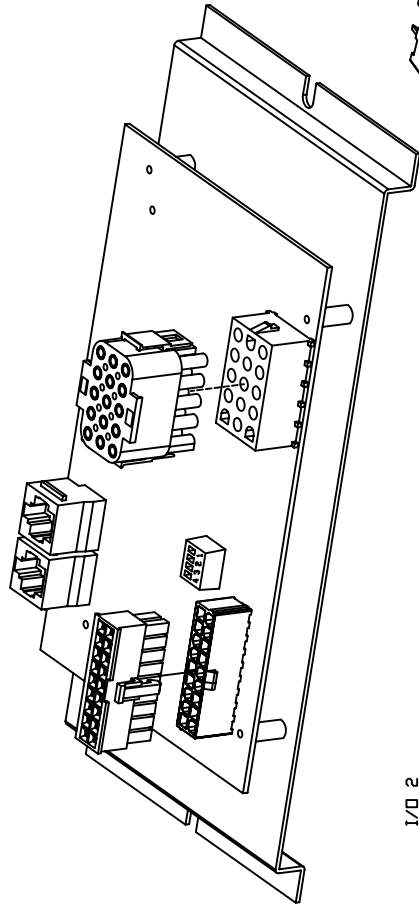
1. RELAY 1 OUTPUT FOR RELAY 6 COIL FOR BOTH SHOULDER TANNERS
2. RELAY 1 COMMON FOR RELAY 6 COIL FOR BOTH SHOULDER TANNERS
3. VARIABLE AC OUT FEED TO F7 BODY COOLING FAN
4. RELAY 2 OUTPUT FOR RELAY 7 COIL FOR ALL CHEST AND BUTT LAMPS
5. RELAY 2 COMMON FOR RELAY 7 COIL FOR ALL CHEST AND BUTT LAMPS
6. VARIABLE AC IN RETURN TO F7 BODY COOLING FAN
7. RELAY 3 OUTPUT FOR RELAY 8 COIL FOR ALL FEET AND HEAL LAMPS
8. RELAY 3 COMMON FOR RELAY 8 COIL FOR ALL FEET AND HEAL LAMPS
9. NO INTERNAL CONNECTION
10. RELAY 4 OUTPUT FOR RELAY 9 COIL FOR ALL UNIT COOLING FANS
11. RELAY 4 COMMON FOR RELAY 9 COIL FOR ALL UNIT COOLING FANS
12. LINE 2 IN AC RETURN POWER FOR I/O-2 BOARD
13. RELAY 5 OUTPUT FOR RELAY 10 COIL FOR ALL COLUMN DECORATIVE LIGHTING
14. RELAY 5 COMMON FOR RELAY 10 COIL FOR ALL COLUMN DECORATIVE LIGHTING
15. LINE 1 IN AC FEED POWER FOR I/O-2 BOARD

ALL DIP SWITCHES SHOULD BE SET TO OFF EXCEPT FOR DIP SWITCH 1. IT SHOULD BE SET TO ON FOR I/O-2 BOARD

DIP SWITCHES

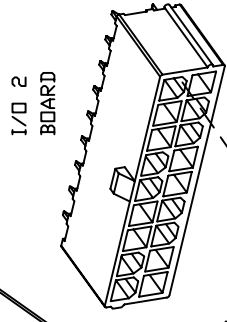
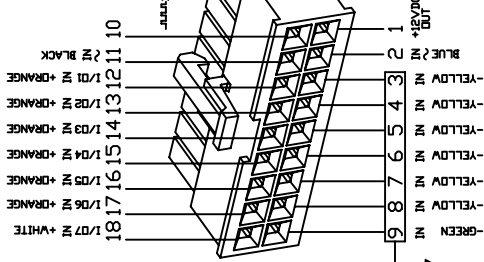


INTER BOARD COMMUNICATIONS PORTS
RJ-45 JACKS
RS-485

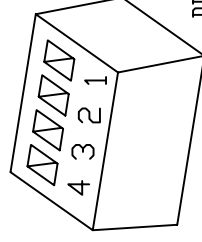


I/O 2
PIN FUNCTION

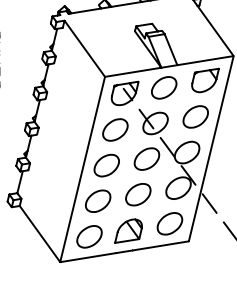
1. +12VDC OUT
2. CURRENT DONUT 4~
3. GND FOR I/O1, COL 1 GLASS SENSORS
4. GND FOR I/O2, COL 2 GLASS SENSORS
5. GND FOR I/O3, COL 3 GLASS SENSORS
6. GND FOR I/O4, COL 1 AIR SWITCH
7. GND FOR I/O5, COL 2 AIR SWITCH
8. GND FOR I/O6, COL 3 AIR SWITCH
9. GND FOR I/O7, TIME RESISTOR
10. PWM GND
11. CURRENT DONUT 3~
12. +5 FOR I/O1, COL 1 GLASS SENSORS
13. +5 FOR I/O2, COL 2 GLASS SENSORS
14. +5 FOR I/O3, COL 3 GLASS SENSORS
15. +5 FOR I/O4, COL 1 AIR SWITCH
16. +5 FOR I/O5, COL 2 AIR SWITCH
17. +5 FOR I/O6, COL 3 AIR SWITCH
18. +5 FOR I/O7, TIME RESISTOR



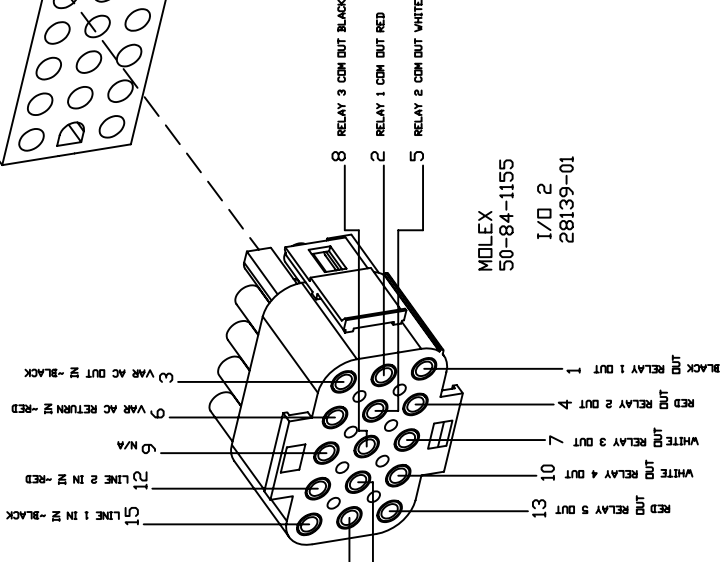
MOLEX
39-01-2185



I/O 2
BOARD



MOLEX
10-84-4152



RELAY 5 COM OUT WHITE 14
RELAY 4 COM OUT BLACK 11

MOLEX
50-84-1155

I/O 2
28139-01

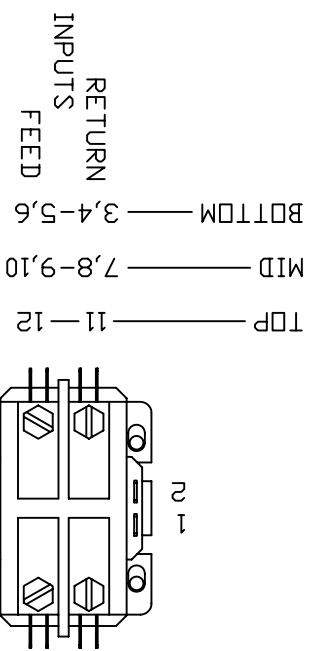
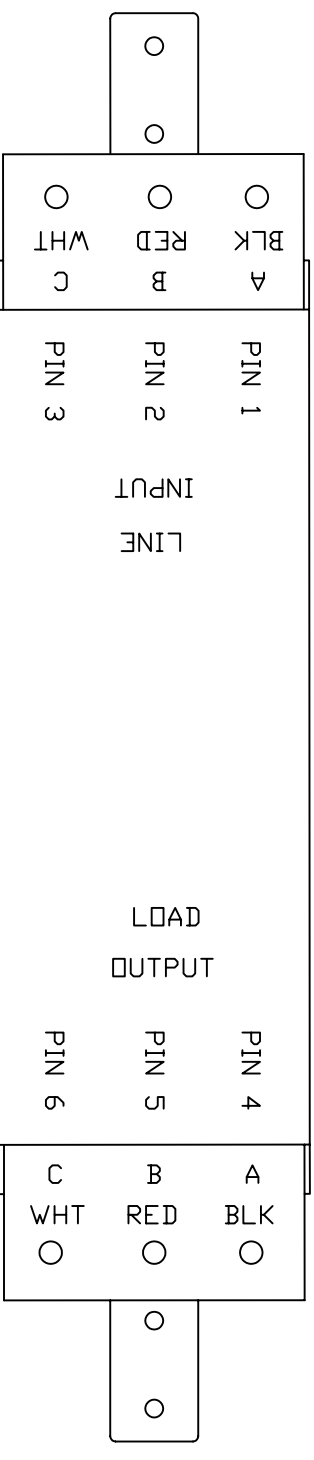
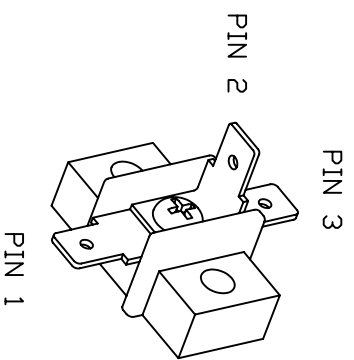
AC COLOR SCHEME

FEED/RETURN	AB	FEED/RETURN	CA	FEED/RETURN	BC
INPUT BLACK/RED		INPUT WHITE/BLACK		INPUT RED/WHITE	
OUTPUT BLACK/WHITE		OUTPUT BROWN/GRAY		OUTPUT RED/BLUE	

DC COLOR SCHEME

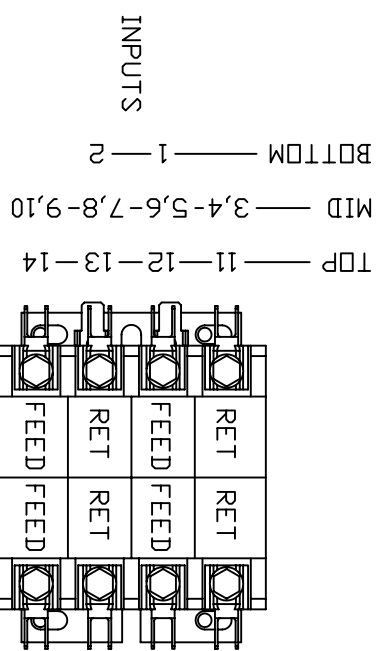
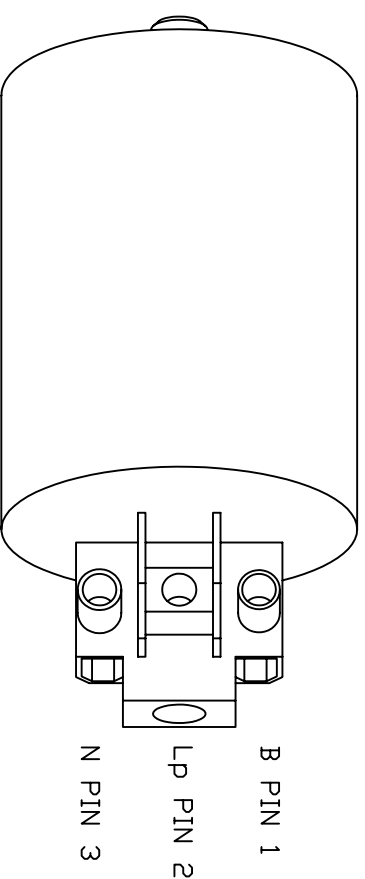
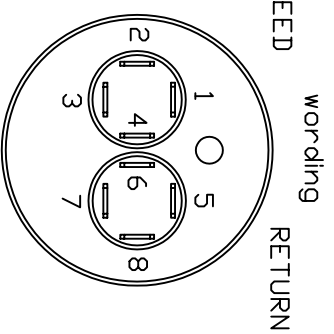
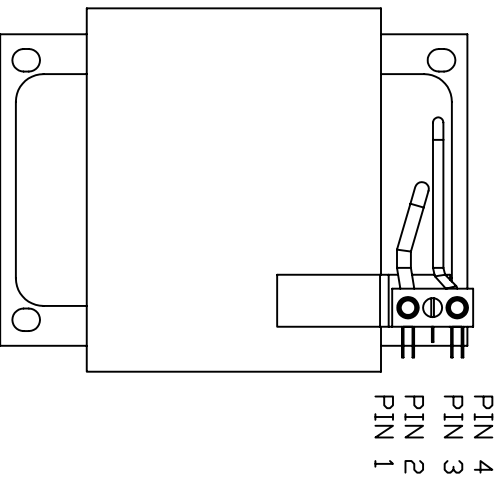
+5VDC	ORANGE, WHITE, RED	-5VDC	YELLOW, GREEN, BLACK	VIOLET
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CURRENT DONUTS
BLACK/BLUE



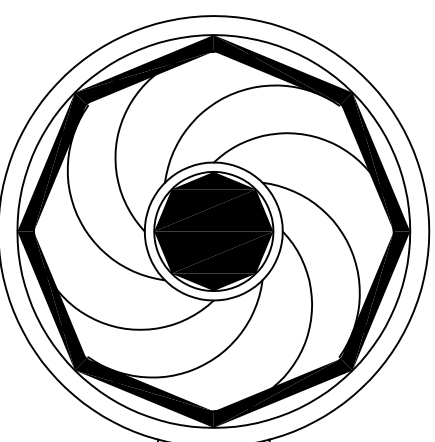
TOP — 23-24
MID — 19,20-21,22
BOTTOM — 15,16 - 17,18

RETURN
OUTPUTS
FEED

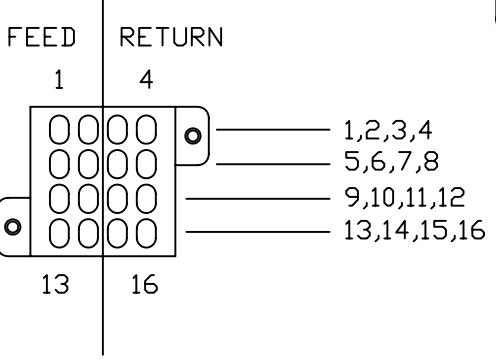


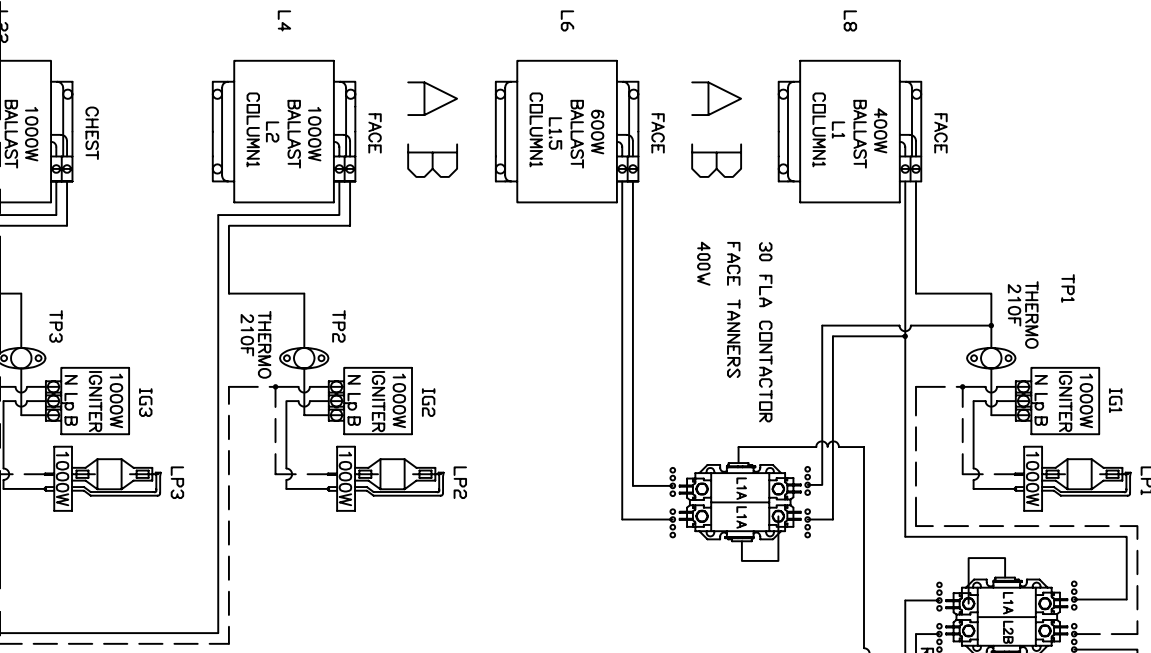
TOP — 23-24-25-26
MID 15,16 - 17,18-19,20-21,22
BOTTOM

OUTPUTS

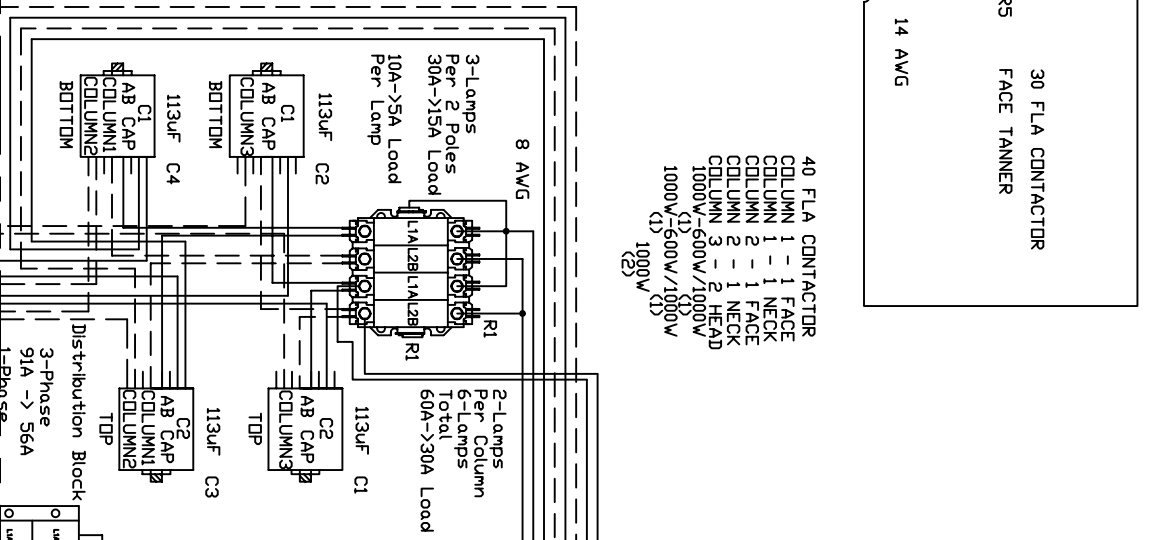


PIN 1 BLUE (L2-VAC) MALE
PIN 2 BLACK (CAP/L1-VAC) FEMALE
PIN 3 BROWN (CAP) FEMALE
PIN 4 GREEN/YELLOW #8 RING

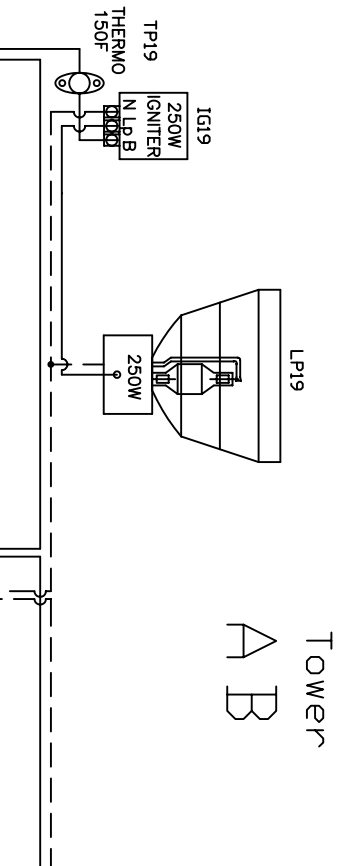
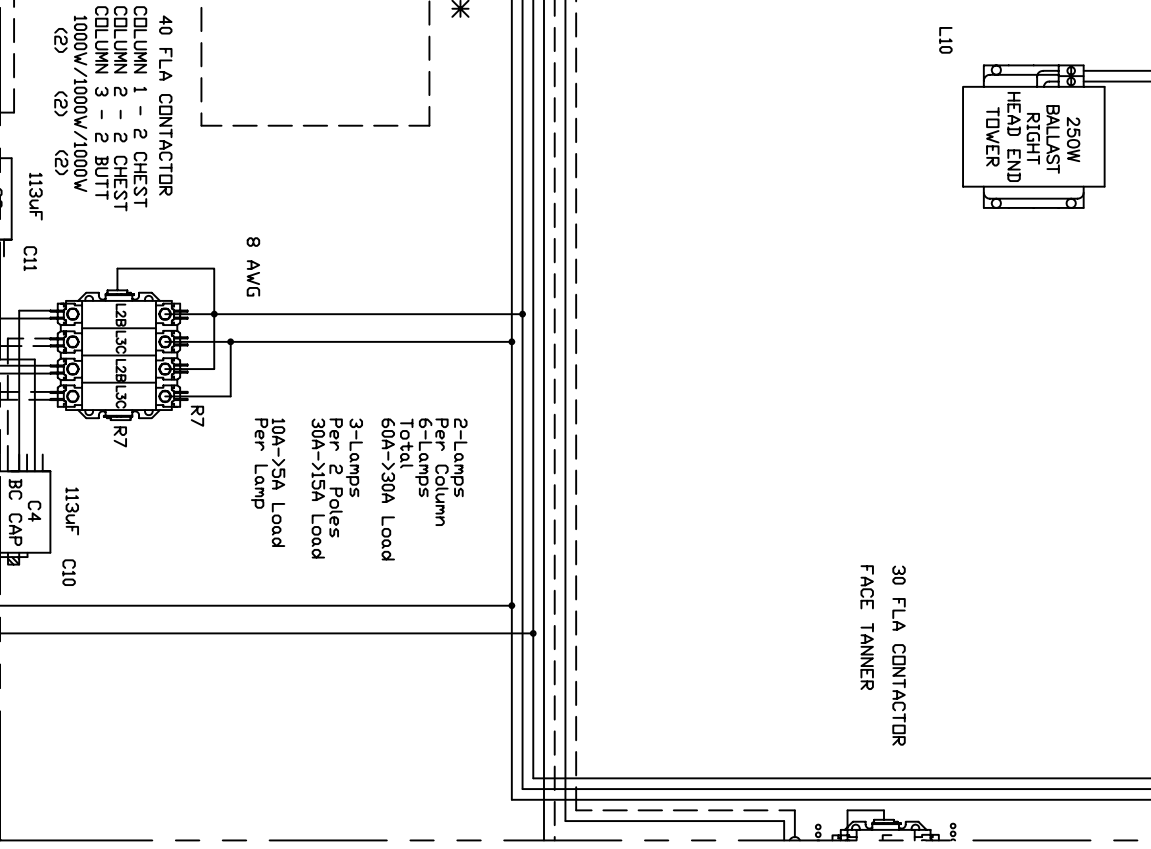
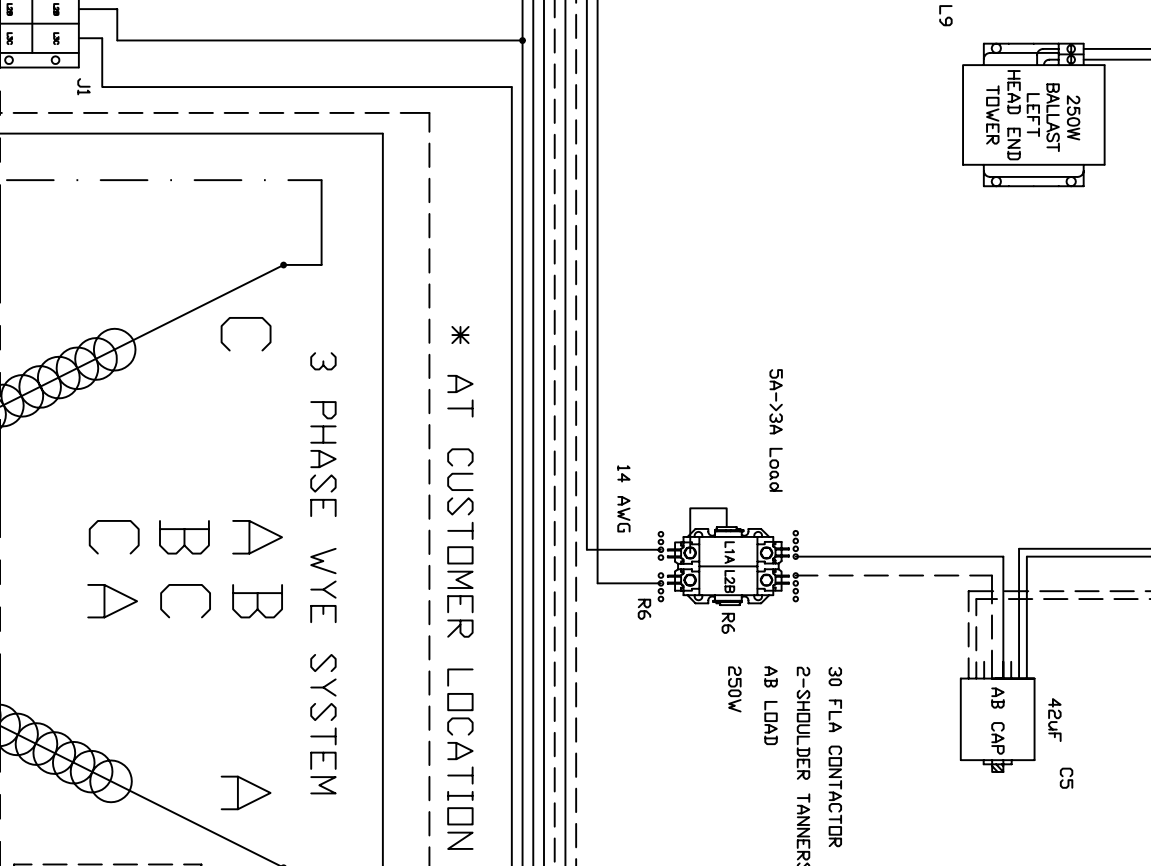




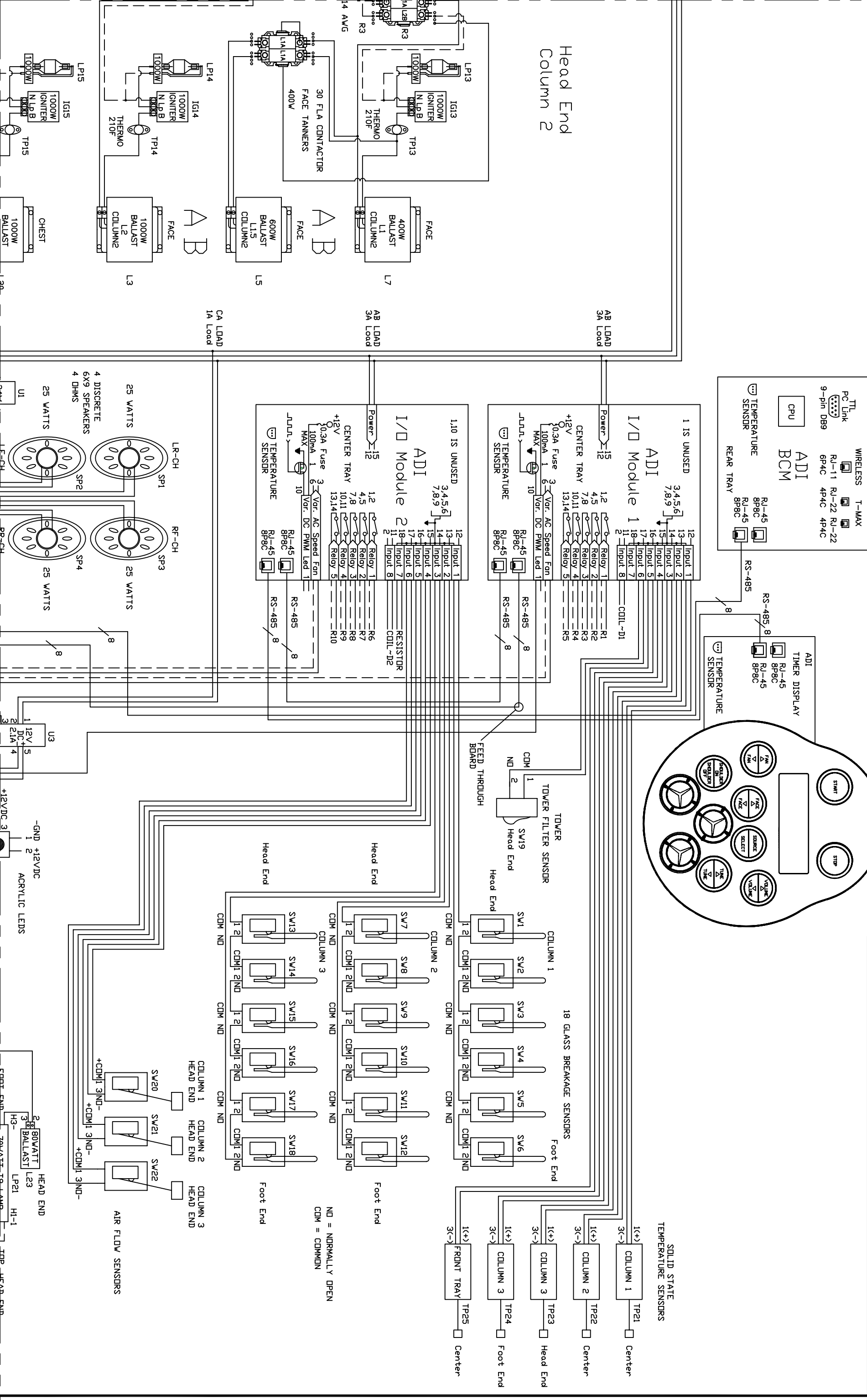
Head End
Column 1



Shoulder Tanners
Head End
Tower

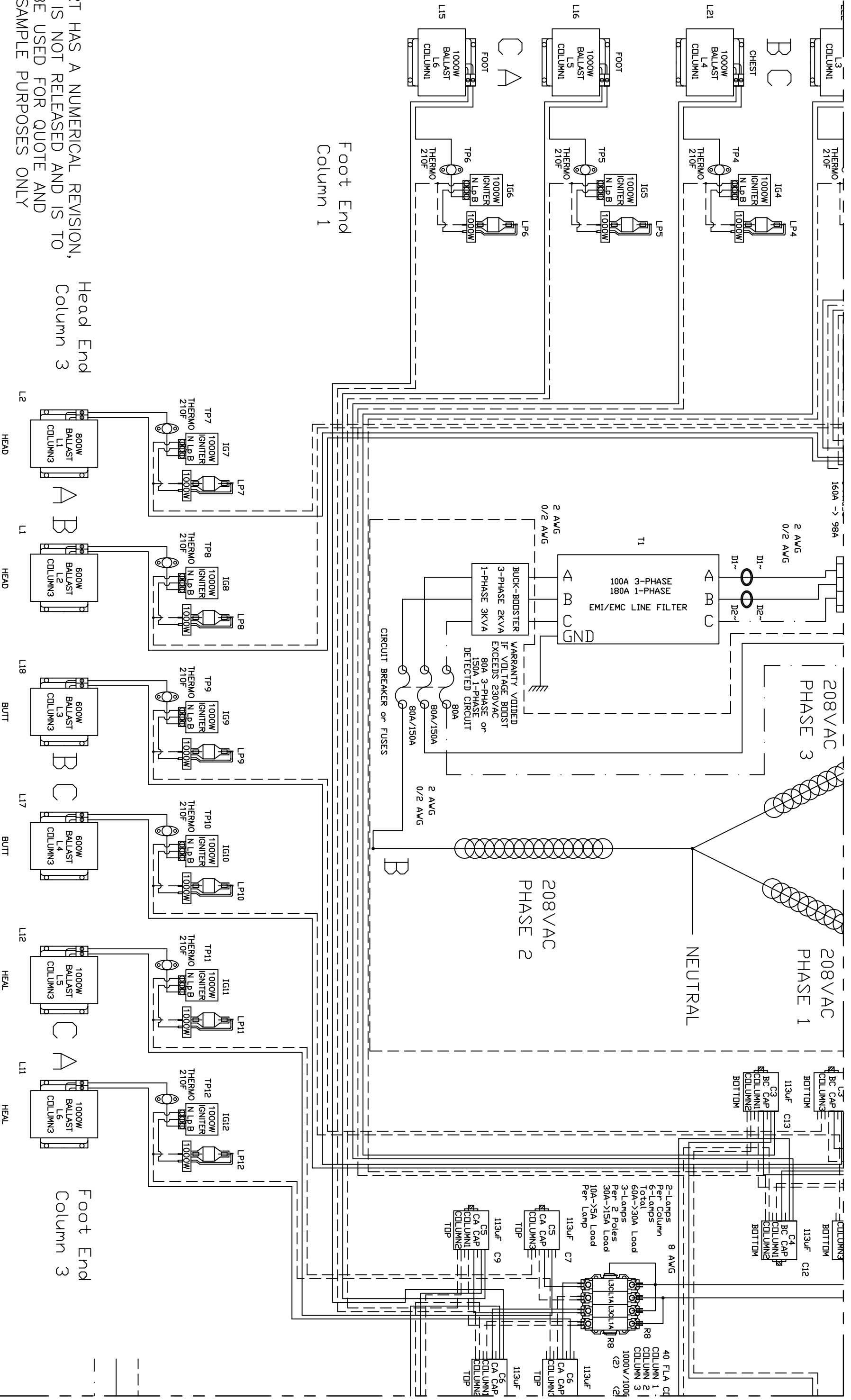


DATE	DWG REV.	DESCRIPTION	ECN #	DR.	APPROVED
-	DA	ORIGINAL RELEASE	-	MIS	



IF PART HAS A NUMERICAL REVISION,
PART IS NOT RELEASED AND IS TO
BE USED FOR QUOTE AND
SAMPLE PURPOSES ONLY

28250-01	A	TB
PART NO.	PART PRD.J.	REV CODE



Head End
Column 3

Foot End
Column 1

Foot End
Column 3

2-1 Lamps
Per Column
6 Lamps
Total
60A->30A Load
3-1 Lamps
Per 2 Poles
30A->15A Load
10A->5A Load
Per Lamp

40 FLA CFL
COLUMNS 1
COLUMNS 2
COLUMNS 3
1000W/1000
(2)

BC CAP
COLUMNS
BOTTOM

113uF C12
113uF C13
113uF C14
113uF C15
113uF C16
113uF C17
113uF C18
113uF C19
113uF C20
113uF C21
113uF C22

C5 CA CAP
COLUMNS
TOP

C6 CA CAP
COLUMNS
TOP

C7 CA CAP
COLUMNS
TOP

C8 CA CAP
COLUMNS
TOP

C9 CA CAP
COLUMNS
TOP

C10 CA CAP
COLUMNS
TOP

C11 CA CAP
COLUMNS
TOP

C12 CA CAP
COLUMNS
TOP

C13 CA CAP
COLUMNS
TOP

C14 CA CAP
COLUMNS
TOP

C15 CA CAP
COLUMNS
TOP

C16 CA CAP
COLUMNS
TOP

C17 CA CAP
COLUMNS
TOP

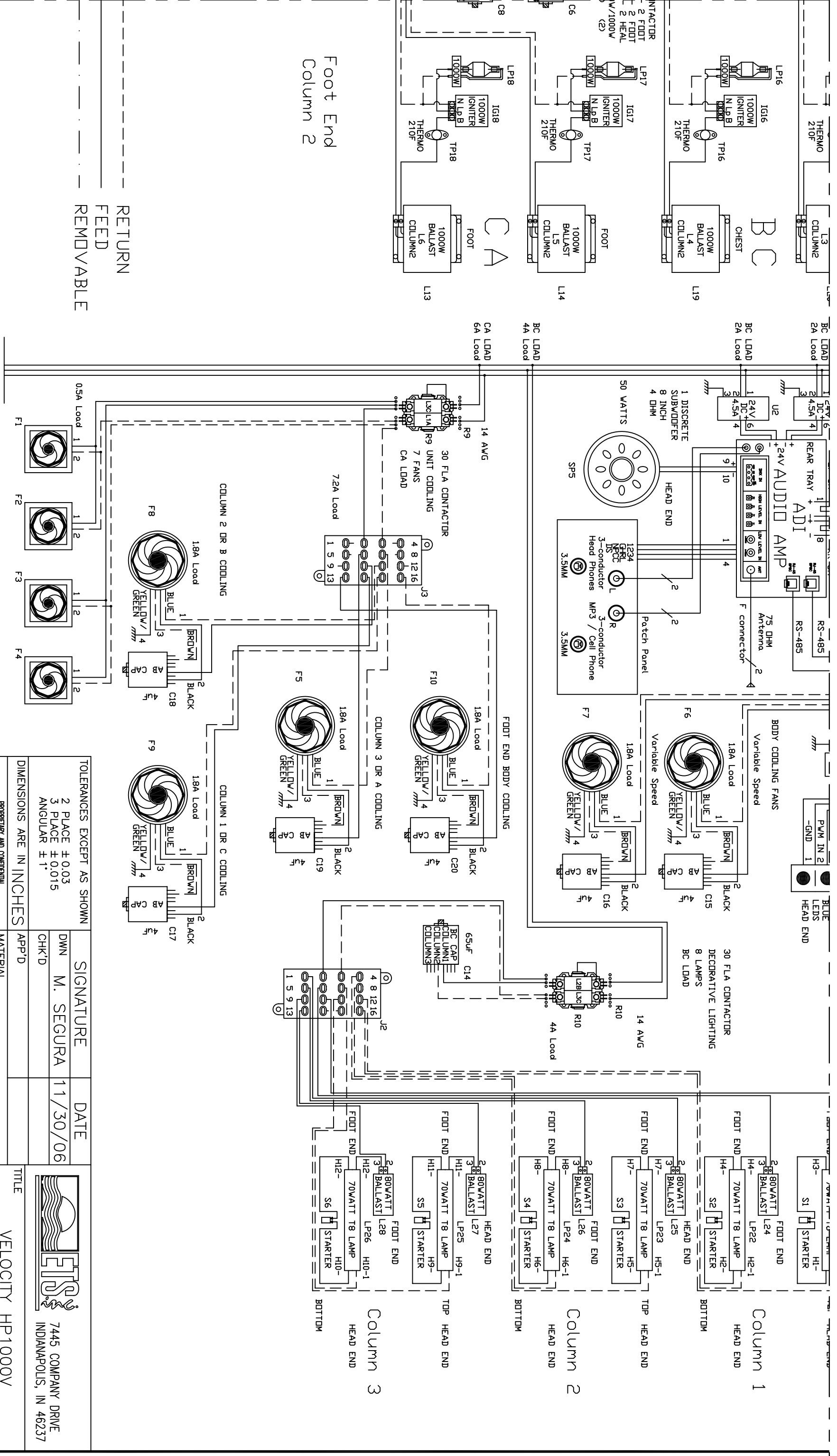
C18 CA CAP
COLUMNS
TOP

C19 CA CAP
COLUMNS
TOP

C20 CA CAP
COLUMNS
TOP

C21 CA CAP
COLUMNS
TOP

C22 CA CAP
COLUMNS
TOP



TOLERANCES EXCEPT AS SHOWN		SIGNATURE		DATE	
2 PLACE ± 0.03		M. SEGURA		11/30/06	
3 PLACE ± 0.015		CHK'D			
ANGULAR ± 1°		APP'D			
DIMENSIONS ARE IN INCHES		MATERIAL		TITLE	
		N/A		VELOCITY HP1000V WIRING DIAGRAM	
		DEVELOPED FROM:		DRAWING NO. 28250	
		-		SEE CHART	
		NO MANUAL REVISIONS		CAD NO. 28250A	
				SHEET 1 OF 1	

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 ETS, INC.

Distribution Block
 MAIN
 POWER BUS

Foot End
 Column 2
 RETURN
 FEED
 REMOVABLE

7445 COMPANY DRIVE
 INDIANAPOLIS, IN 46237