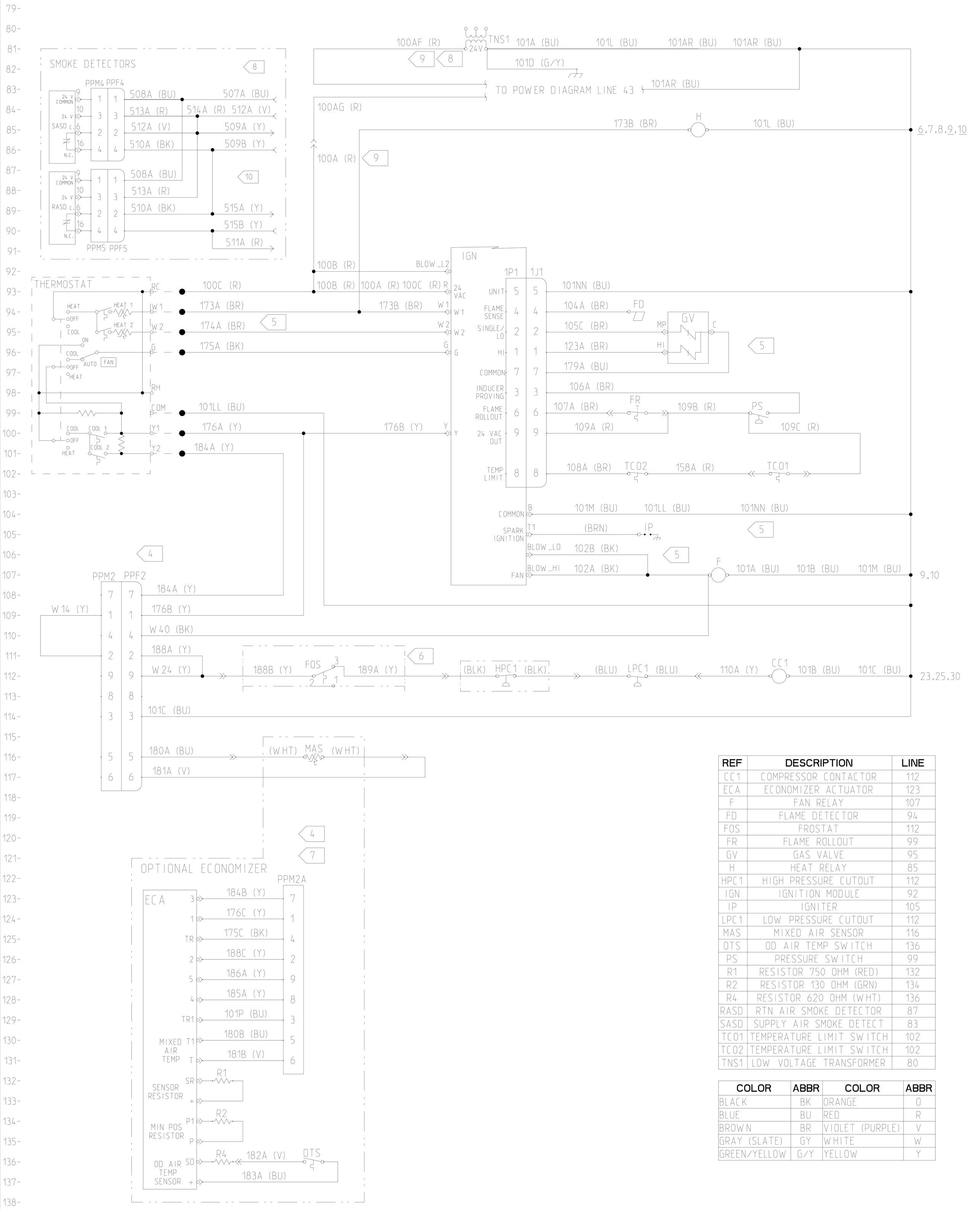

REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	112
ECA	ECONOMIZER ACTUATOR	123
F	FAN RELAY	107
FD	FLAME DETECTOR	94
FOS	FROSTAT	112
FR	FLAME ROLLOUT	99
GV	GAS VALVE	95
H	HEAT RELAY	85
HPC1	HIGH PRESSURE CUTOUT	112
IGN	IGNITION MODULE	92
IP	IGNITER	105
LPC1	LOW PRESSURE CUTOUT	112
MAS	MIXED AIR SENSOR	116
OTS	OD AIR TEMP SWITCH	136
PS	PRESSURE SWITCH	99
R1	RESISTOR 750 OHM (RED)	132
R2	RESISTOR 130 OHM (GRN)	134
R4	RESISTOR 620 OHM (WHT)	136
RASD	RTN AIR SMOKE DETECTOR	87
SASD	SUPPLY AIR SMOKE DETECT	83
TC01	TEMPERATURE LIMIT SWITCH	102
TC02	TEMPERATURE LIMIT SWITCH	102
TNS1	LOW VOLTAGE TRANSFORMER	80

COLOR	ABBR	COLOR	ABBR
BLACK	BK	ORANGE	O
BLUE	BU	RED	R
BROWN	BR	VIOLET (PURPLE)	V
GRAY (SLATE)	GY	WHITE	W
GREEN/YELLOW	G/Y	YELLOW	Y

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.

2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.

3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.

4. WHEN INSTALLING OPTIONAL ECONOMIZER, REMOVE CONFIG PLUG PPM2, AND CONNECT ECONOMIZER PLUG PPM2A TO PPF2, AND CONNECT MAS TO WIRES 180A AND 181A.

5. (FUTURE) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 102B IS REMOVED, WIRES 101NN AND 174A ARE NOT CONNECTED TO IGN, AND WIRE 123A IS NOT CONNECTED TO GV.

6. CONNECTIONS SHOWN INCLUDE FOS AND HPC1. IF NEITHER OPTION IS INSTALLED, CONNECT WIRE LPC1-BLU TO WIRES W24/188A. IF ONLY FOS IS INSTALLED, CONNECT WIRE 189A TO WIRE LPC1-BLU. IF ONLY HPC1 IS INSTALLED, CONNECT WIRE HPC1-BLK TO WIRES W24/188A.

7. FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND OTS (AND ASSOCIATED WIRING) ARE NOT USED, AND R4 IS REMOVED BETWEEN SO AND +.

8. WHEN INSTALLING OPTIONAL SMOKE DETECTOR (SD), CONNECT SASD PLUG PPM4 TO PPF4 AND RASD PLUG PPM5 TO PPF5. REMOVE 100AF OR 100A AS REQUIRED FROM TNS1, 24V PWR AND CONNECT TO 511A. CONNECT 514A/512A TO TNS1, 24V PWR. CONNECT 507A TO TNS1 SECONDARY COM.

9. (FUTURE) PHASE MONITOR (PHM) CONNECTIONS SHOWN. IF PHM NOT INSTALLED CONNECT WIRE 100A TO TNS1 24V PWR, OR WIRE 511A IF SD IS INSTALLED. WIRES 100AF, 100AG ANDD 101AR ARE NOT PRESENT.

10. CONNECTIONS SHOWN INCLUDE RASD AND SASD. IF RASD IS NOT INSTALLED, CONNECT 515A TO 515B. IF SASD IS NOT INSTALLED, CONNECT 509A TO 509B.

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DRAWN BY: K. Vickmark
© DATE: 12Dec2000
DO NOT SCALE PRINT
SIMILAR TO:
THIRD ANGLE PROJECTION

DIAGRAM
CONTROLS - GAS HEAT,
3-5 TON, EM CNTL,
STD-DD IDM

4-366-1001

REV K