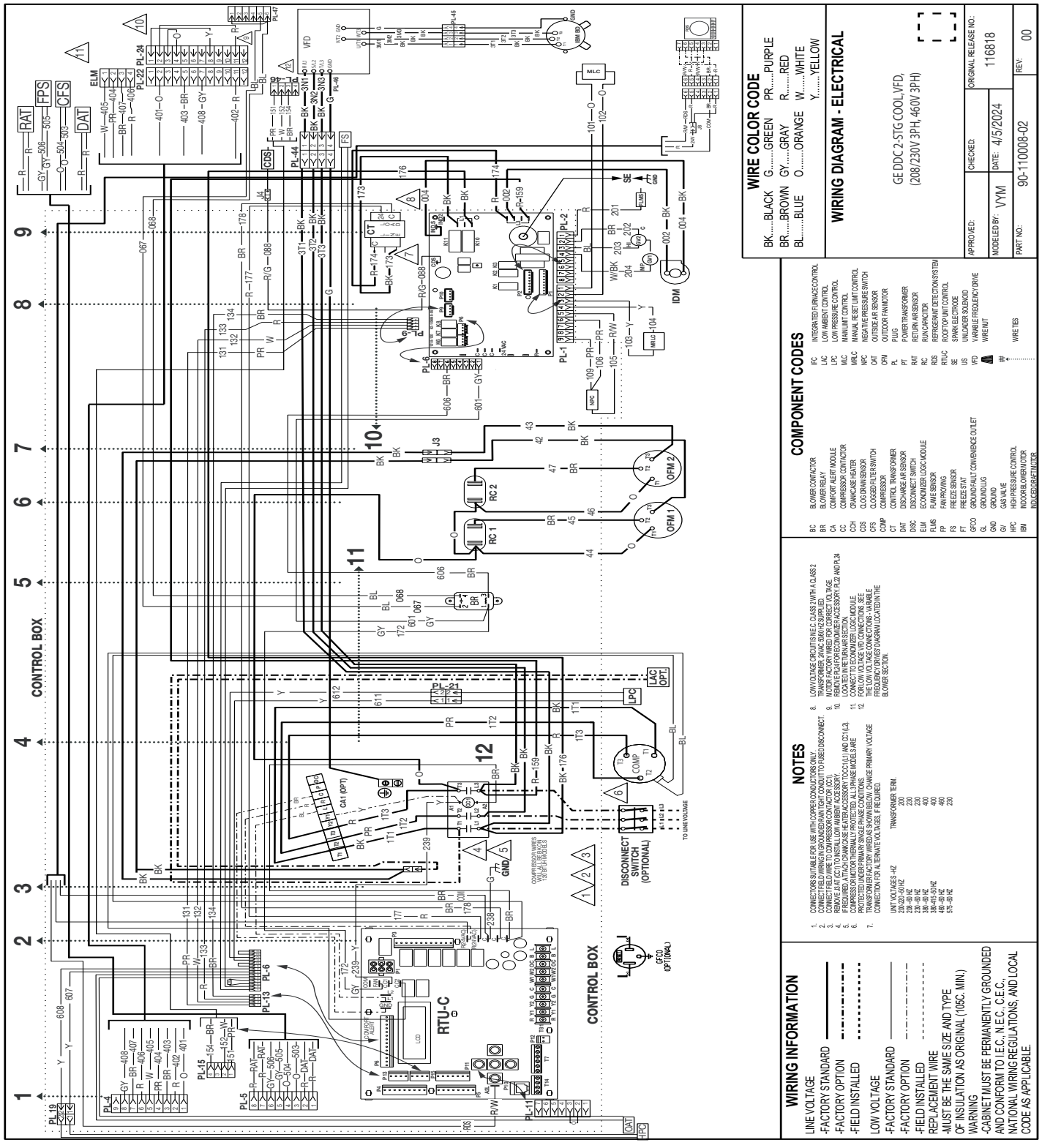
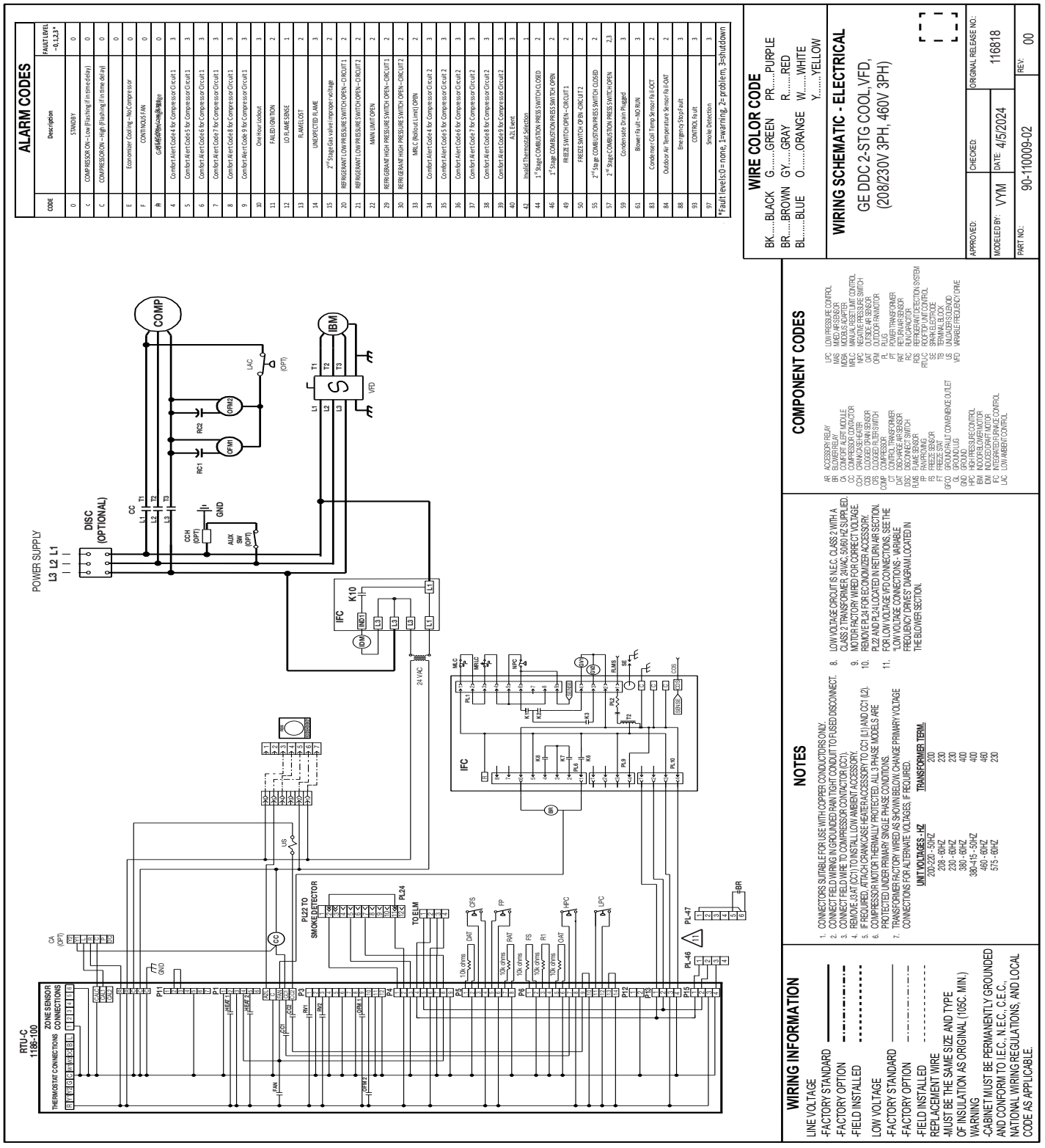
P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

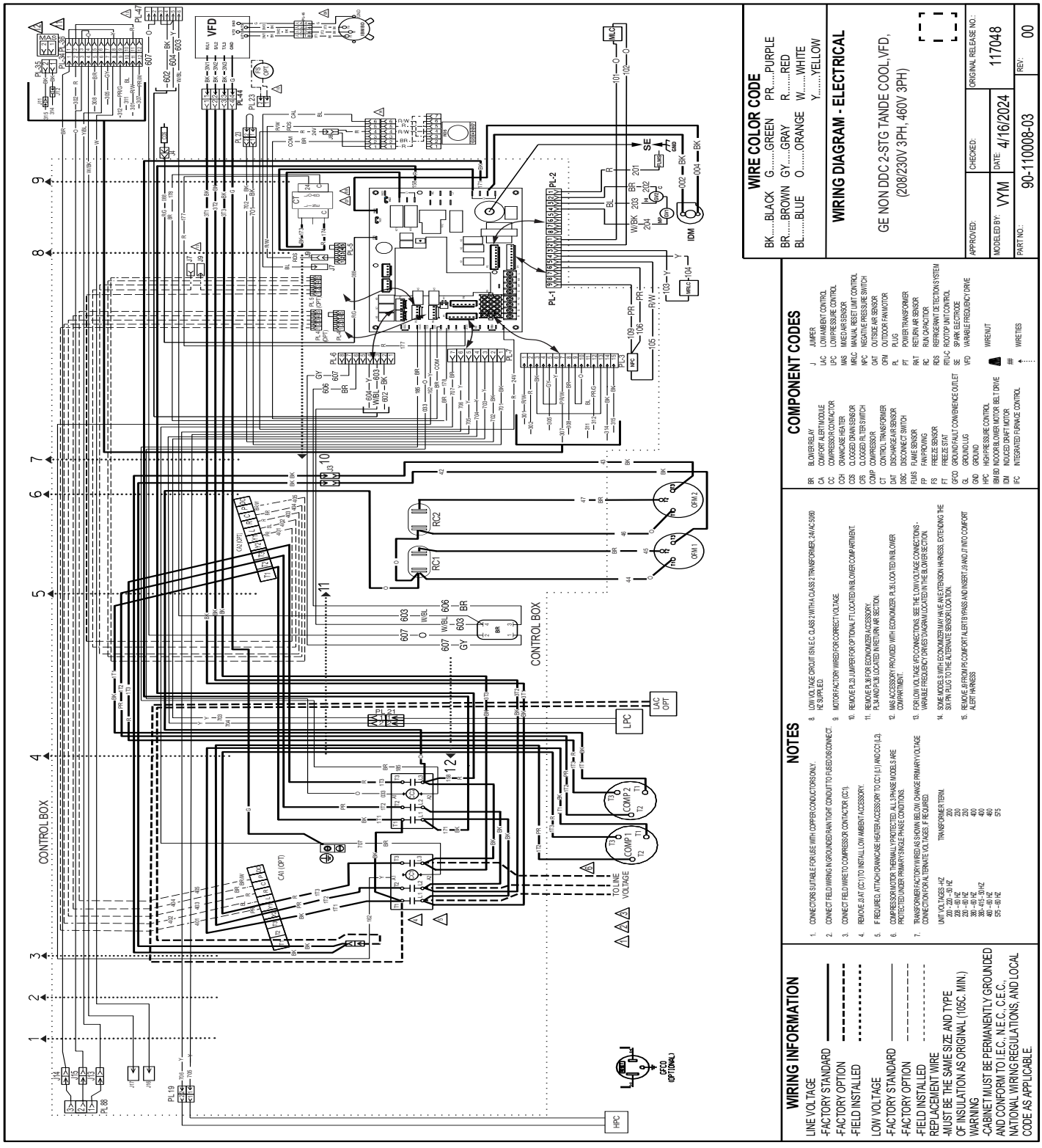


Appendix H. Wiring Diagrams & Schematics (Cont.)

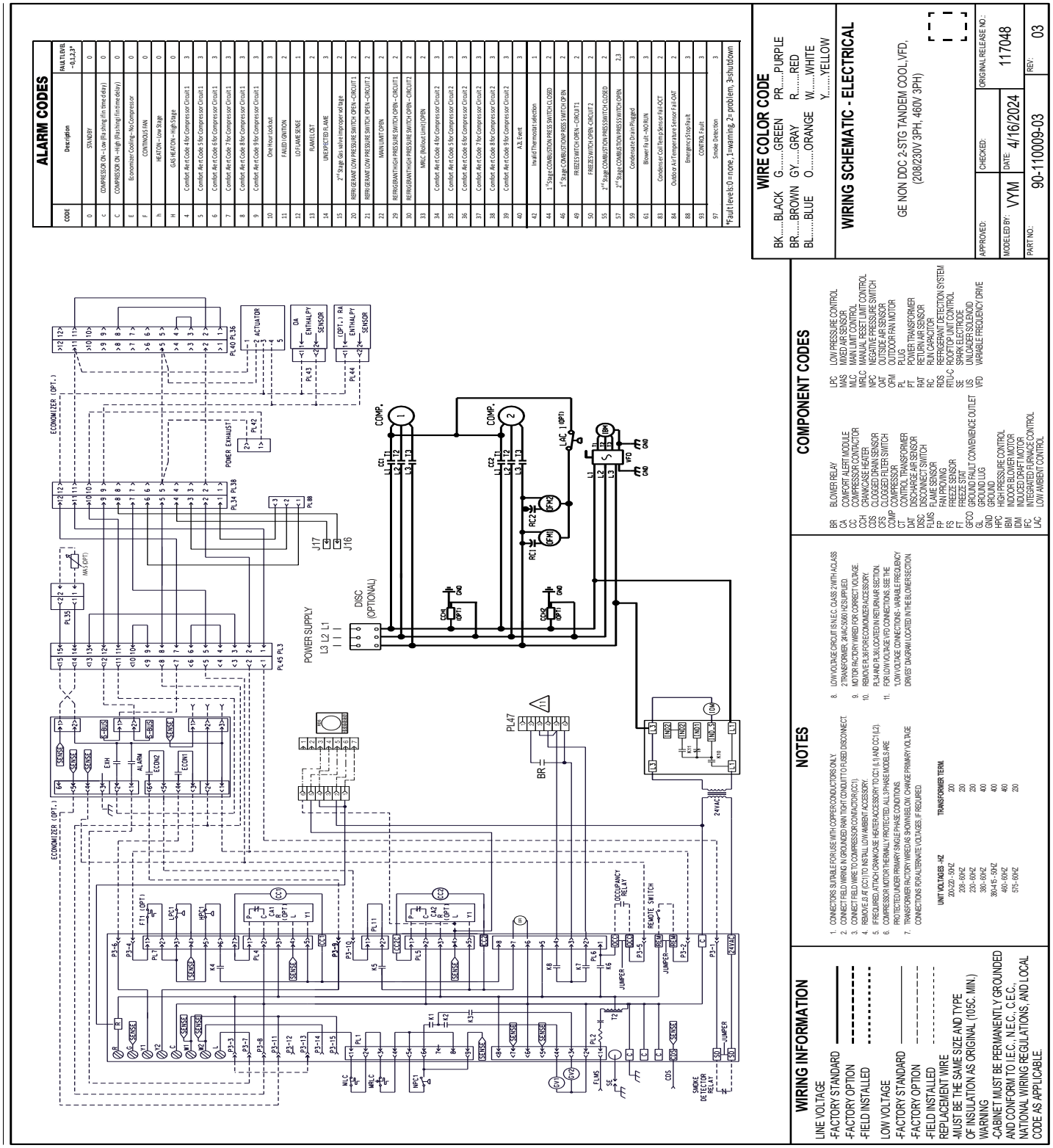


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

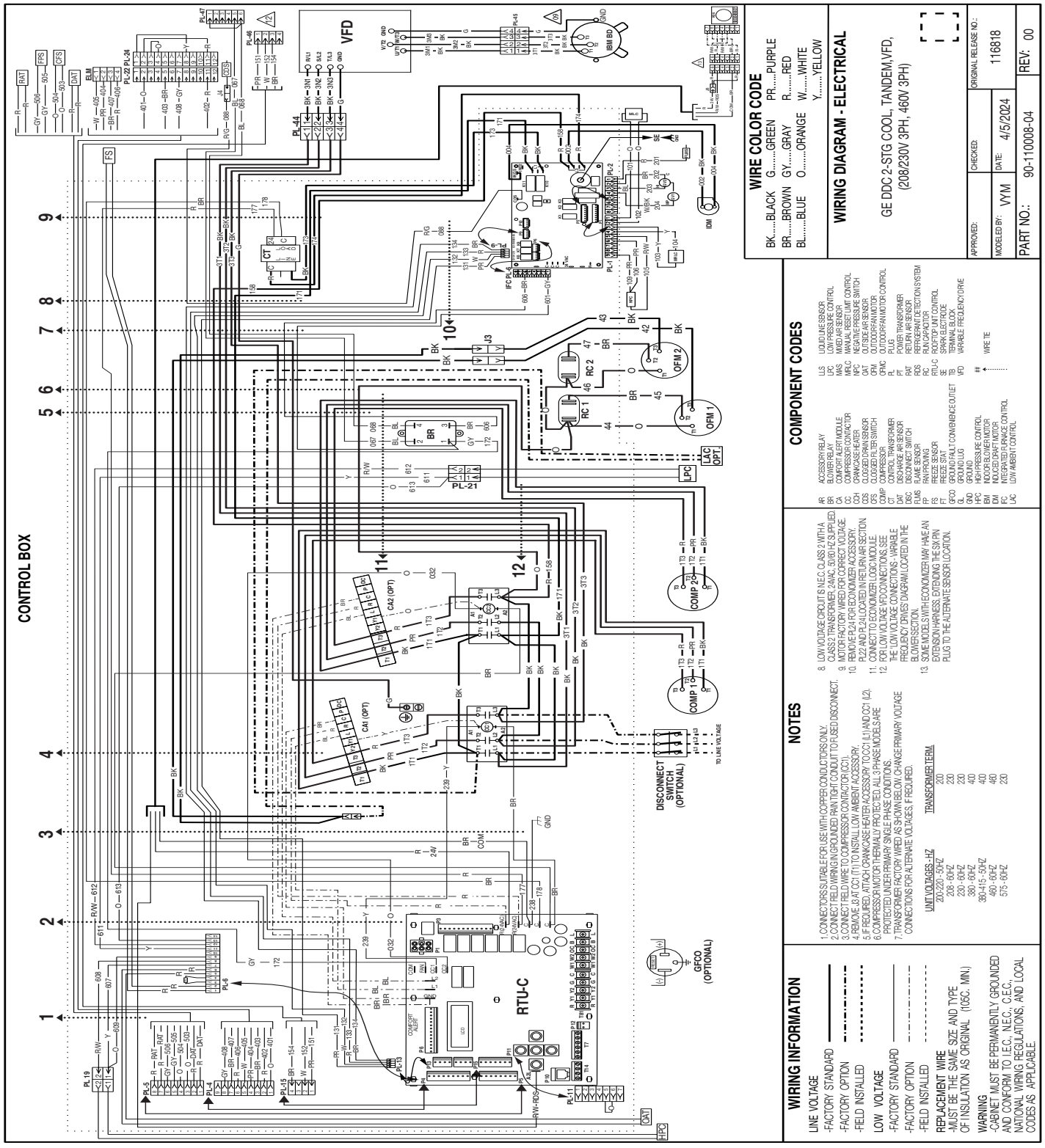


Appendix H. Wiring Diagrams & Schematics (Cont.)

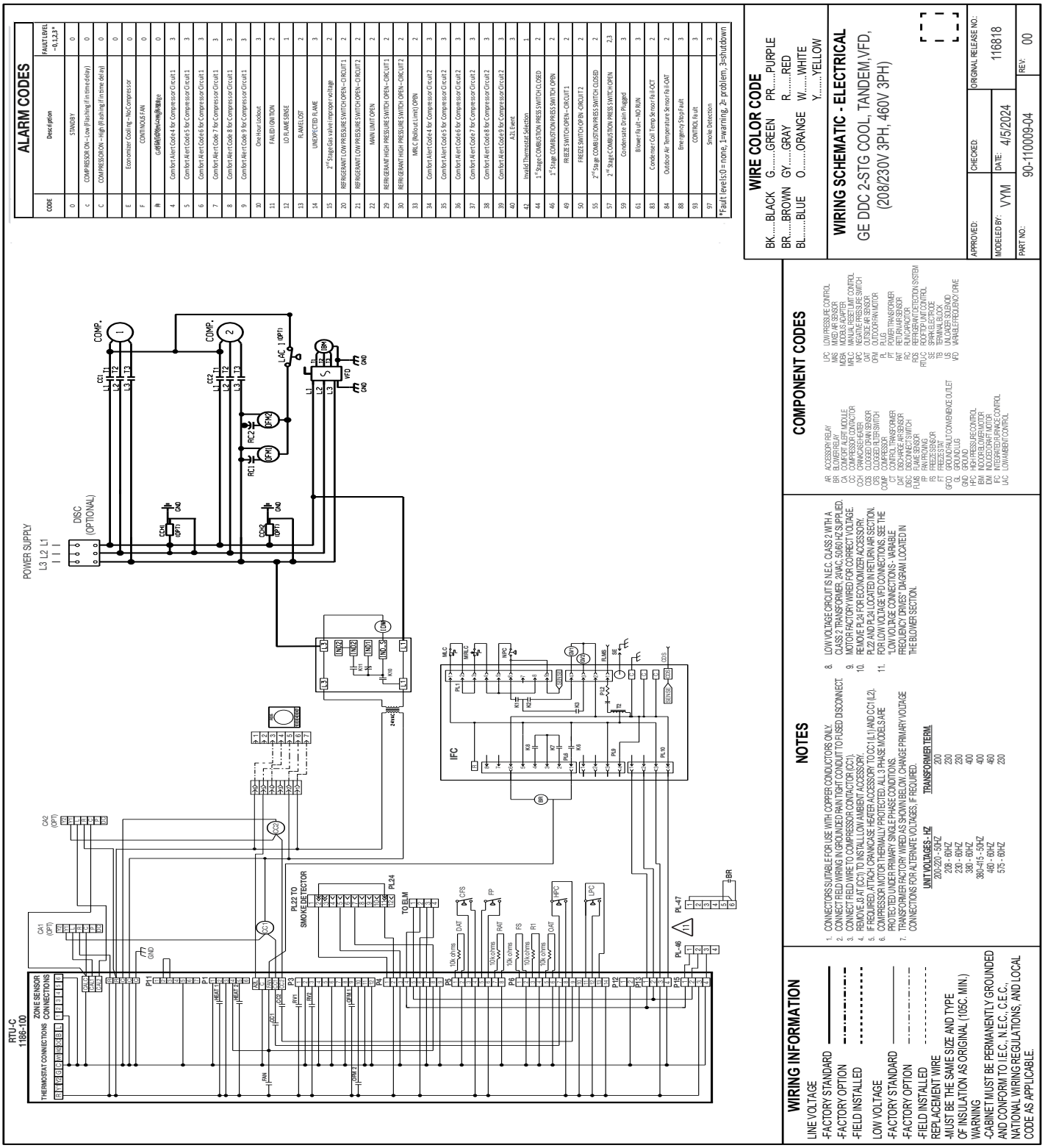


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

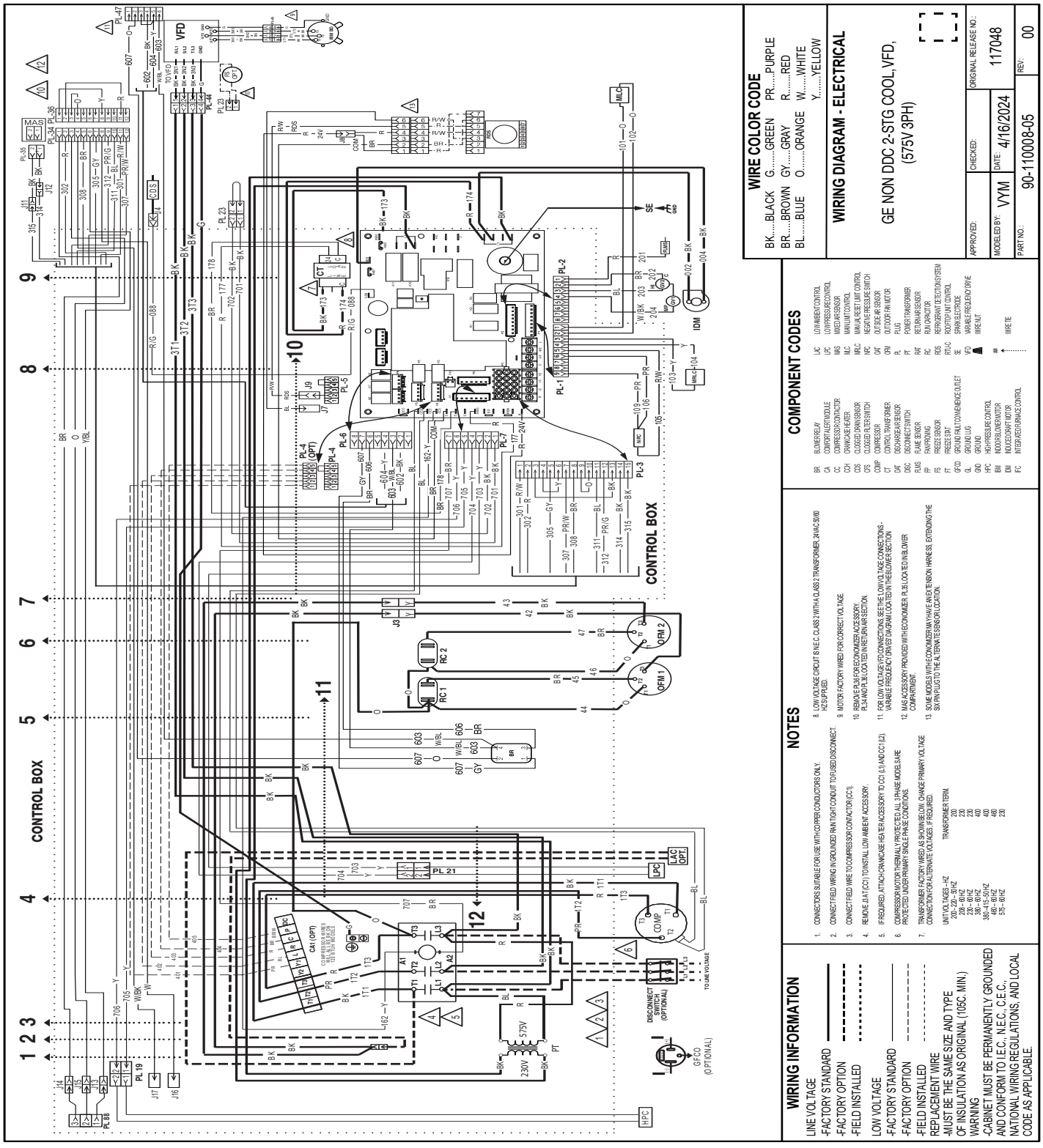


Appendix H. Wiring Diagrams & Schematics (Cont.)

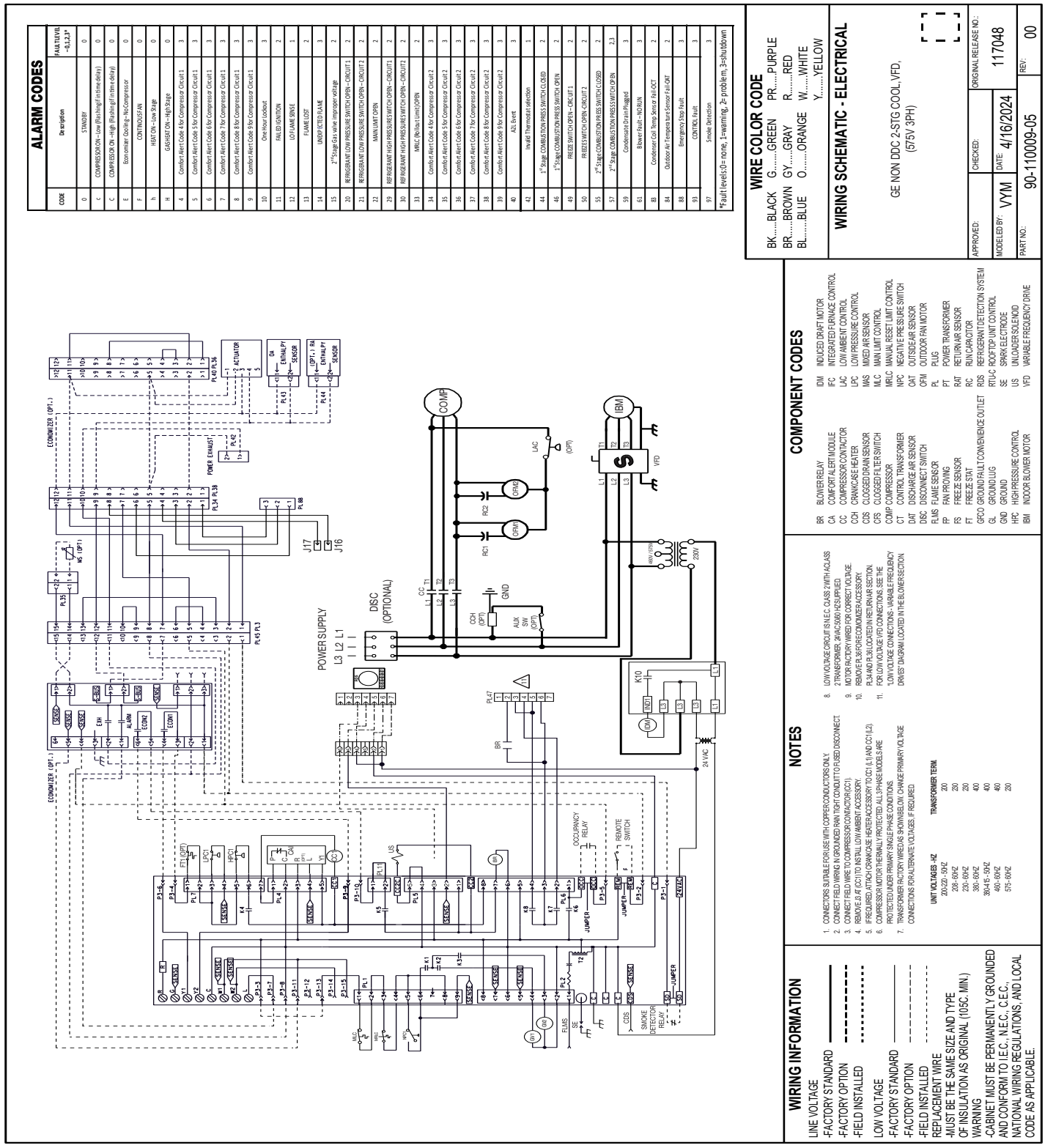


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

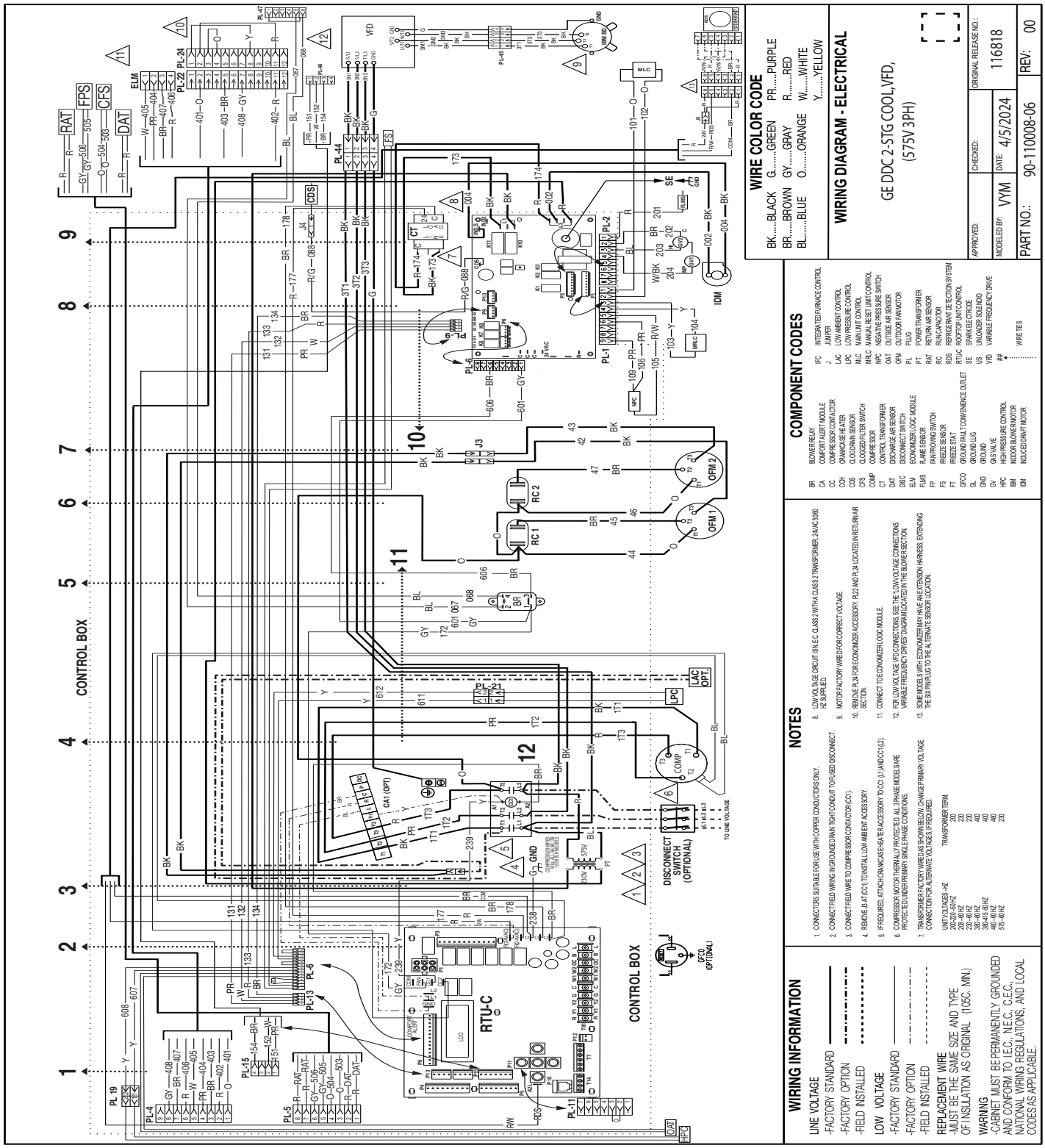


Appendix H. Wiring Diagrams & Schematics (Cont.)

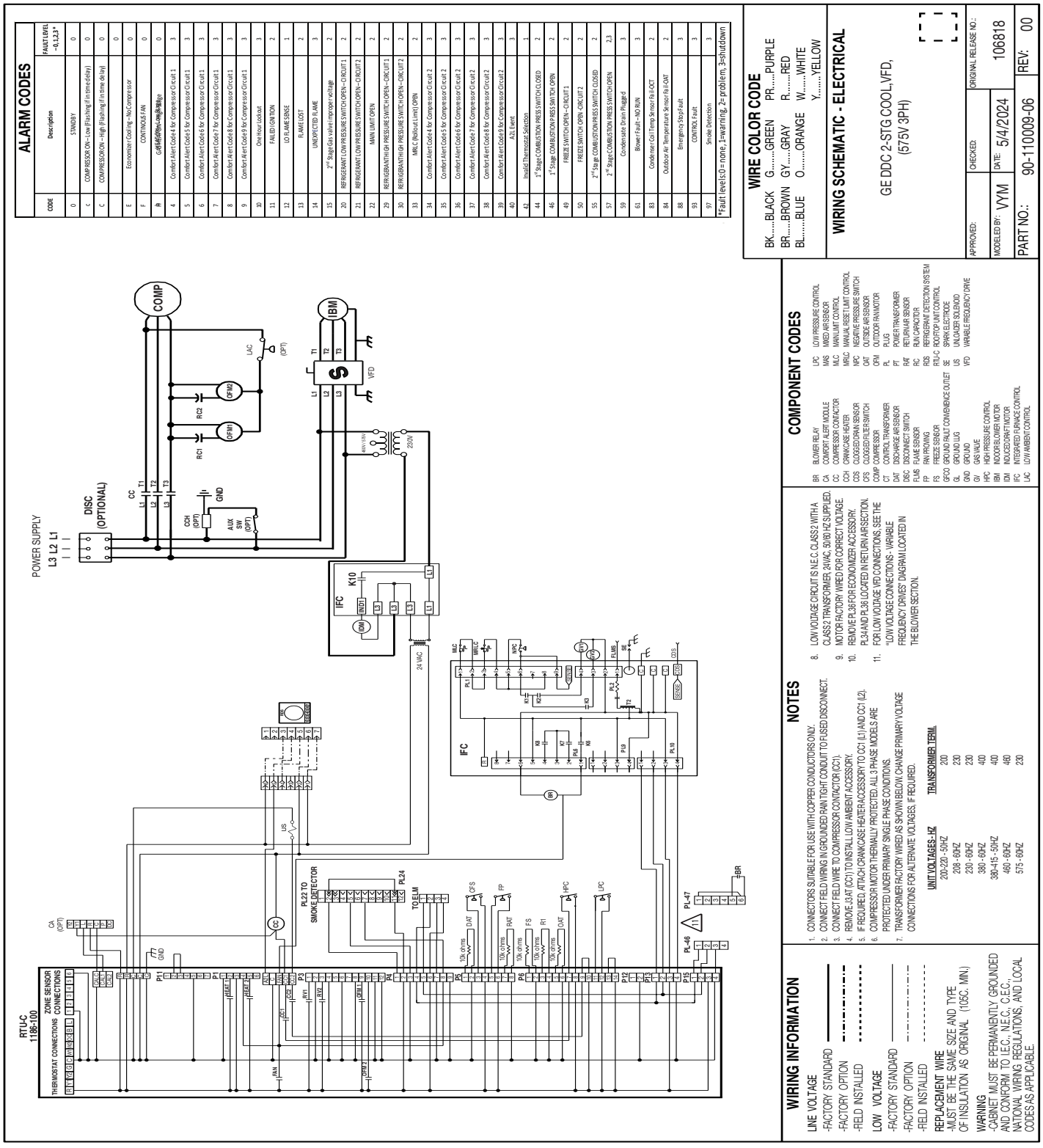


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

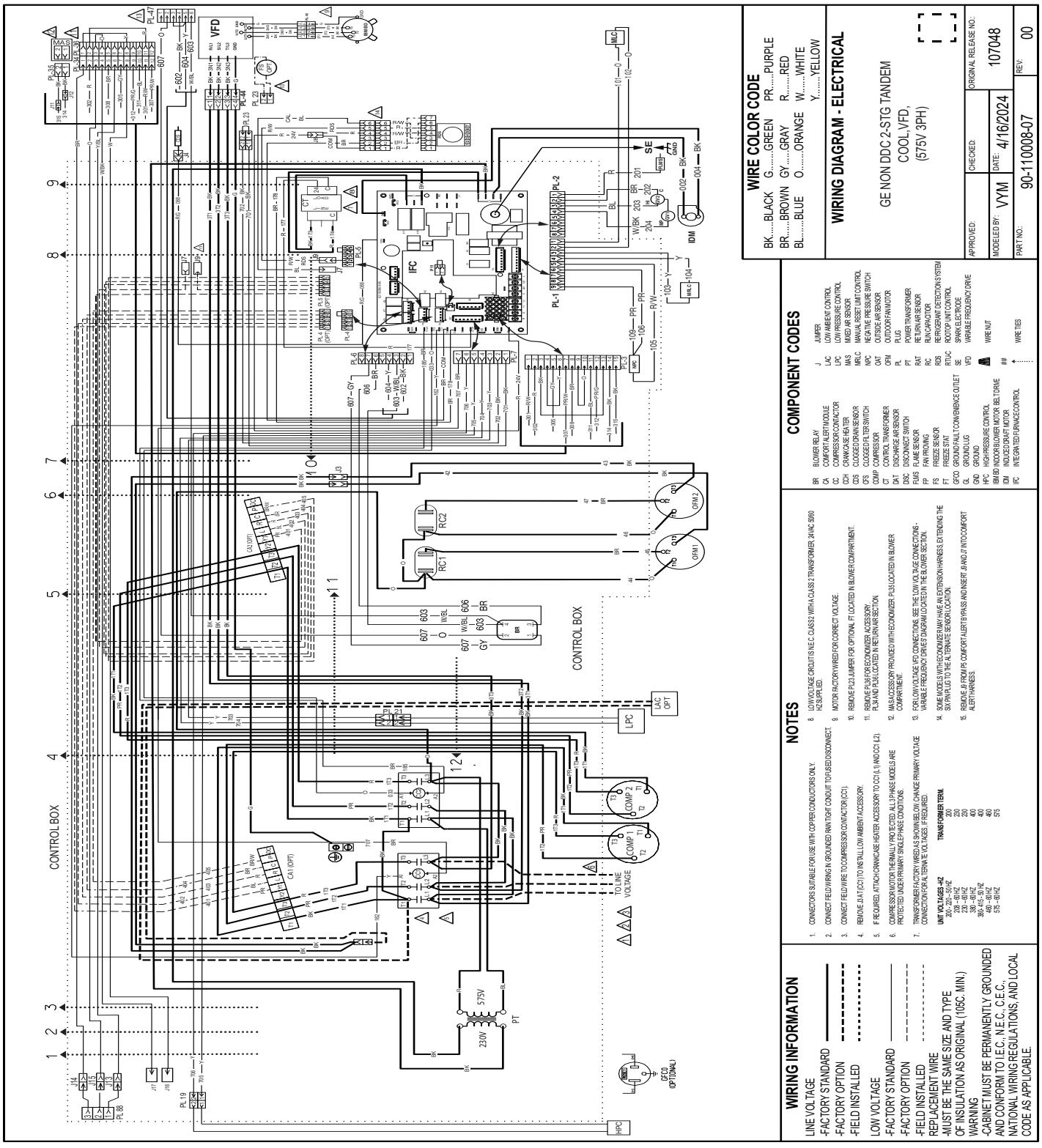


Appendix H. Wiring Diagrams & Schematics (Cont.)

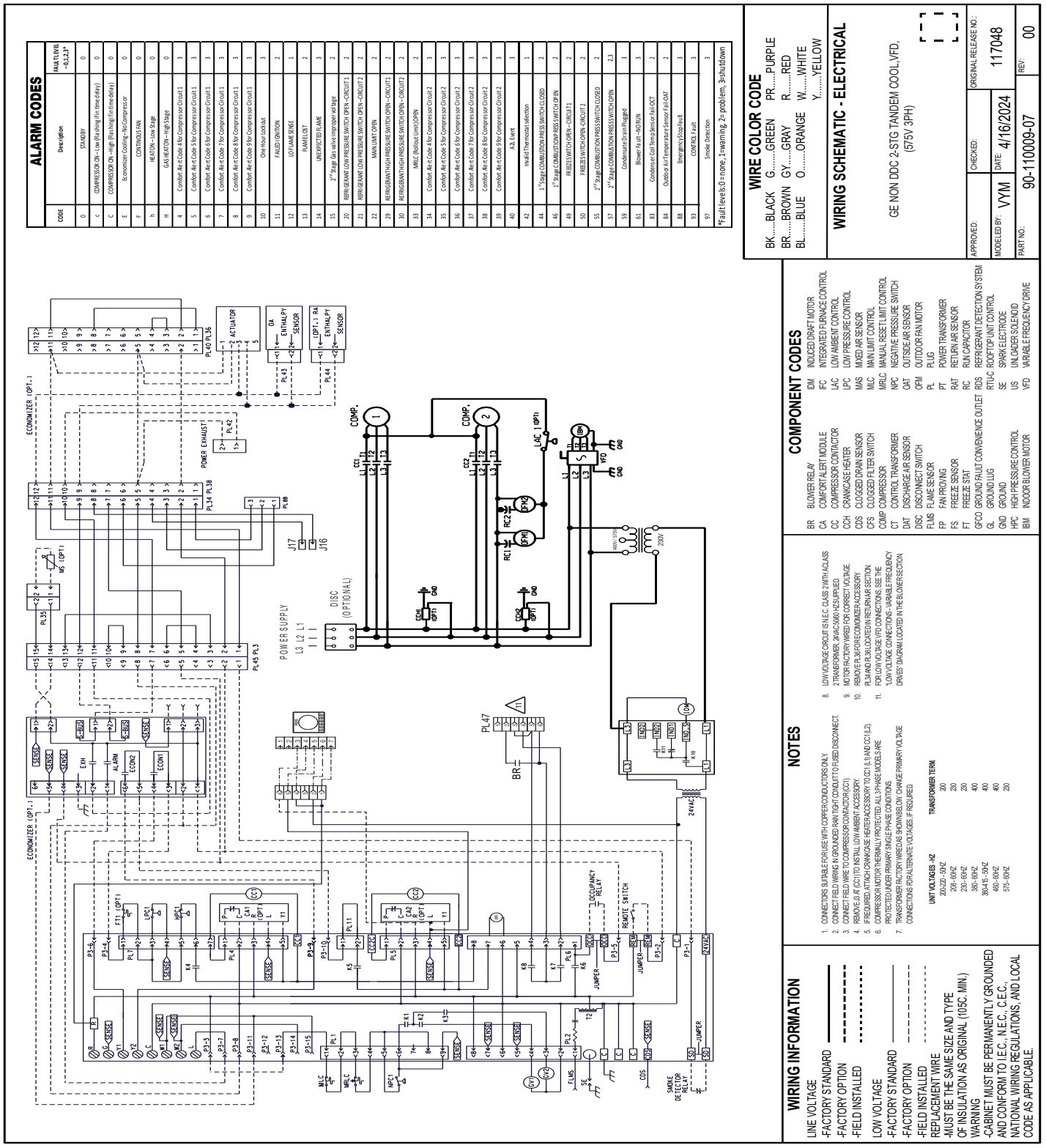


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)



Appendix H. Wiring Diagrams & Schematics (Cont.)



ALARM CODES

CODE	Description	FAULT LEVEL *0-1-2-3*
0	STANDBY	0
C	COMPRESSOR ON – Low (No Jump) (no time delay)	0
C	COMPRESSOR ON – High (Has Jmp) (no time delay)	0
E	Economizer Cooling – No Compressor	0
F	CONTINUOUS FAN	0
h	HEATON – Low Stage	0
H	GAS HEATON – High Stage	0
4	Comfort Alert Code 4 for Compressor Circuit 1	3
5	Comfort Alert Code 5 for Compressor Circuit 1	3
6	Comfort Alert Code 6 for Compressor Circuit 1	3
7	Comfort Alert Code 7 for Compressor Circuit 1	3
8	Comfort Alert Code 8 for Compressor Circuit 1	3
9	Comfort Alert Code 9 for Compressor Circuit 1	3
10	One Hour Lockout	3
11	FAILED IGNITION	2
12	LOT-FLAME SENSE	1
13	FLAME LOST	2
14	UNEXPECTED FLAME	3
15	2nd Stage Gas valve improper rel Stage	2
20	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 1	2
21	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 2	2
22	MAIN UNIT OPEN	2
29	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 1	2
30	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 2	2
33	MRLC (Relocal Lomm) OPEN	2
34	Comfort Alert Code 4 for Compressor Circuit 2	3
35	Comfort Alert Code 5 for Compressor Circuit 2	3
36	Comfort Alert Code 6 for Compressor Circuit 2	3
37	Comfort Alert Code 7 for Compressor Circuit 2	3
38	Comfort Alert Code 8 for Compressor Circuit 2	3
39	Comfort Alert Code 9 for Compressor Circuit 2	3
40	A2L Event	3
42	Invalid Thermostat selection	1
44	1st Stage COMBUSTION PRESS SWITCH CLOSED	2
46	1st Stage COMBUSTION PRESS SWITCH OPEN	2
49	FREESWITCH OPEN – CIRCUIT 1	2
50	FREESWITCH OPEN – CIRCUIT 2	2
55	2nd Stage COMBUSTION PRESS SWITCH CLOSED	2
57	2nd Stage COMBUSTION PRESS SWITCH OPEN	1-3
59	Condensate Drain Plugged	3
61	Blower Fault – NO RUN	3
83	Condenser Coil Temp Sensor Fail-OCT	2
84	Outdoor Air Temperature Sensor Fail-OAT	2
88	Emergency Stop Fault	3
93	CONTROL Fault	3
97	Smoke Detection	3

*Fault Levels: 0 – none, 1 – warning, 2 – problem, 3 – shutdown

WIRE COLOR CODE

BK.....BLACK G.....GREEN PR.....PURPLE
BR.....BROWN GY.....GRAY R.....RED
BL.....BLUE O.....ORANGE W.....WHITE
Y.....YELLOW

WIRING SCHEMATIC - ELECTRICAL

GE NON DDC 2-STG TANDEM COOL,VFD, (575V 3PH)

APPROVED:	CHECKED:		ORIGINAL RELEASE NO.:
MODELED BY: VYM	DATE: 4/16/2024	117048	
PART NO: 90-110009-07		REV:	00

COMPONENT CODES

BR	BLOWER RELAY	IDM	INDUCED DRAFT MOTOR
CA	COMFORT ALERT MODULE	IFC	INTEGRATED FURNACE CONTROL
CC	COMPRESSOR CONTACTOR	LAC	LOW AMBIENT CONTROL
CCH	CRANKCASE HEATER	LPC	LOW PRESSURE CONTROL
CDS	CLOGGED DRAIN SENSOR	MAS	MIXED AIR SENSOR
CFS	CLOGGED FILTER SWITCH	MLC	MAIN LIMIT CONTROL
COMP	COMPRESSOR	MRLC	MANUAL RESET LIMIT CONTROL
CT	CONTROL TRANSFORMER	NPC	NEGATIVE PRESSURE SWITCH
DAT	DISCHARGE AIR SENSOR	OAT	OUTSIDE AIR SENSOR
DISC	DISCONNECT SWITCH	OFM	OUTDOOR FAN MOTOR
FLMS	FLAME SENSOR	PL	PLUG
FP	FAN PROVING	PT	POWER TRANSFORMER
FS	FREEZE SENSOR	RAT	RETURN AIR SENSOR
FT	FREEZE STAT	RC	RUN CAPACITOR
GFCO	GROUND FAULT CONVENIENCE OUTLET	RDS	REFRIGERANT DETECTION SYSTEM
GL	GROUND LUG	RTU-C	ROOFTOP UNIT CONTROL
GND	GROUND	SE	SPARK ELECTRODE
HPC	HIGH PRESSURE CONTROL	US	UNLOADER SOLENOID
IBM	INDOOR BLOWER MOTOR	VFD	VARIABLE FREQUENCY DRIVE

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1).
4. REMOVE ELIF (CC1 TO IN3 FALL LOW AMBIENT ACCESSORY).
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 & 11 AND CC2 (L2).
6. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3-PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTIONS FOR ALTERNATE VOLTAGES, IF REQUIRED

UNIT VOLTAGES - HZ	TRANSFORMER TERM
200-220 - 50HZ	200
208 - 60HZ	208
230 - 60HZ	230
380 - 60HZ	400
380-415 - 50HZ	400
460 - 60HZ	460
575 - 60HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH AGLASS 2 TRANSFORMER. 24VAC/60HZ IS SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PLJUMPER TO COMMUNICATION ACCESSORY. PLJ4 AND PLJ5 LOCATED IN RETURN AIR SECTION.
11. FOR LOW VOLTAGE VFD CONNECTIONS SEE THE LOW VOLTAGE CONNECTIONS - VARIABLE FREQUENCY DRIVES DIAGRAM LOCATED IN THE BLOWER SECTION

WIRING INFORMATION

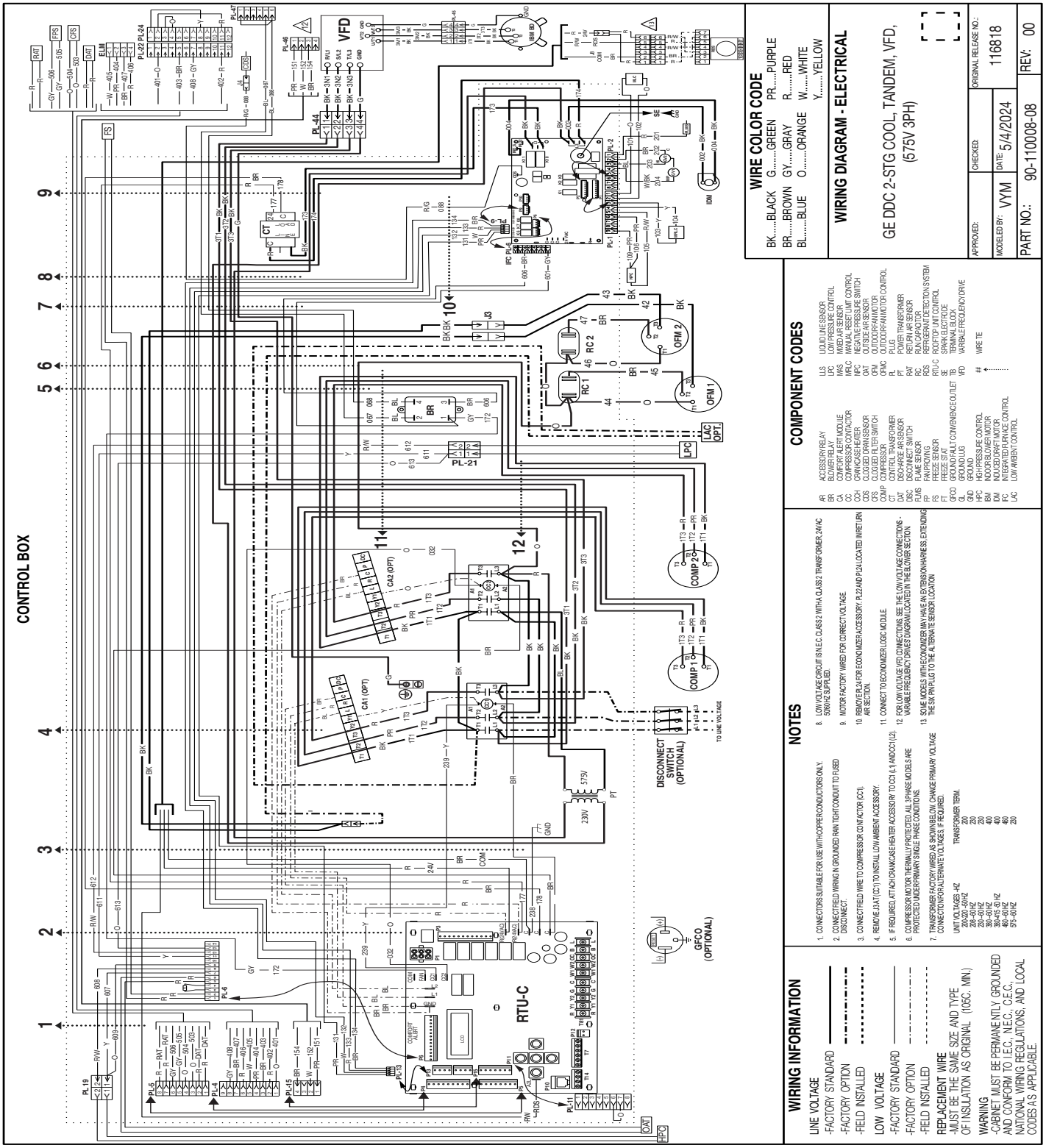
LINE VOLTAGE
-FACTORY STANDARD ——————
-FACTORY OPTION - - - - - - - -
-FIELD INSTALLED . . . . . .

LOW VOLTAGE
-FACTORY STANDARD ——————
-FACTORY OPTION - - - - - - - -
-FIELD INSTALLED
REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105C. MIN.)

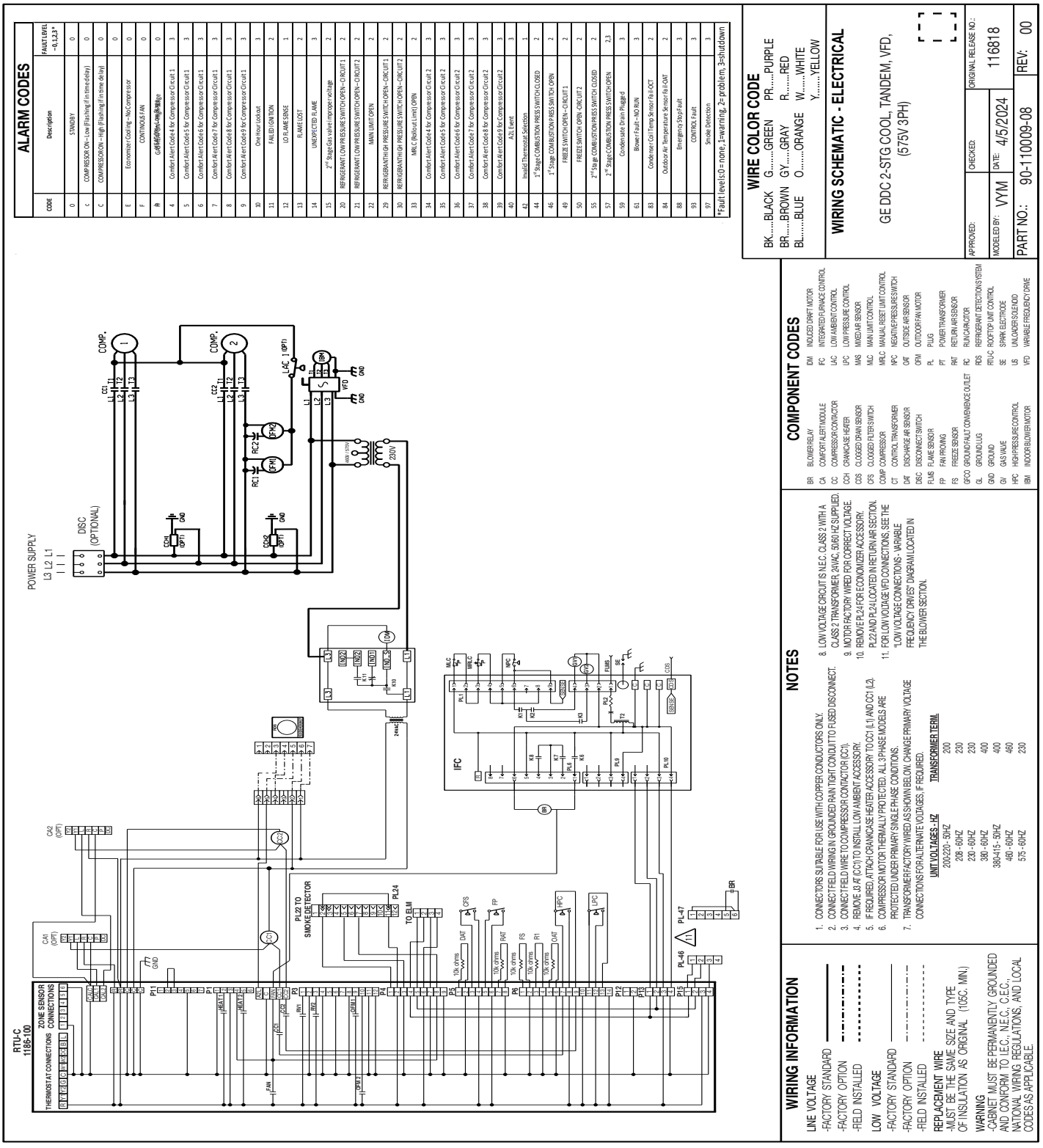
WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODE AS APPLICABLE.

P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

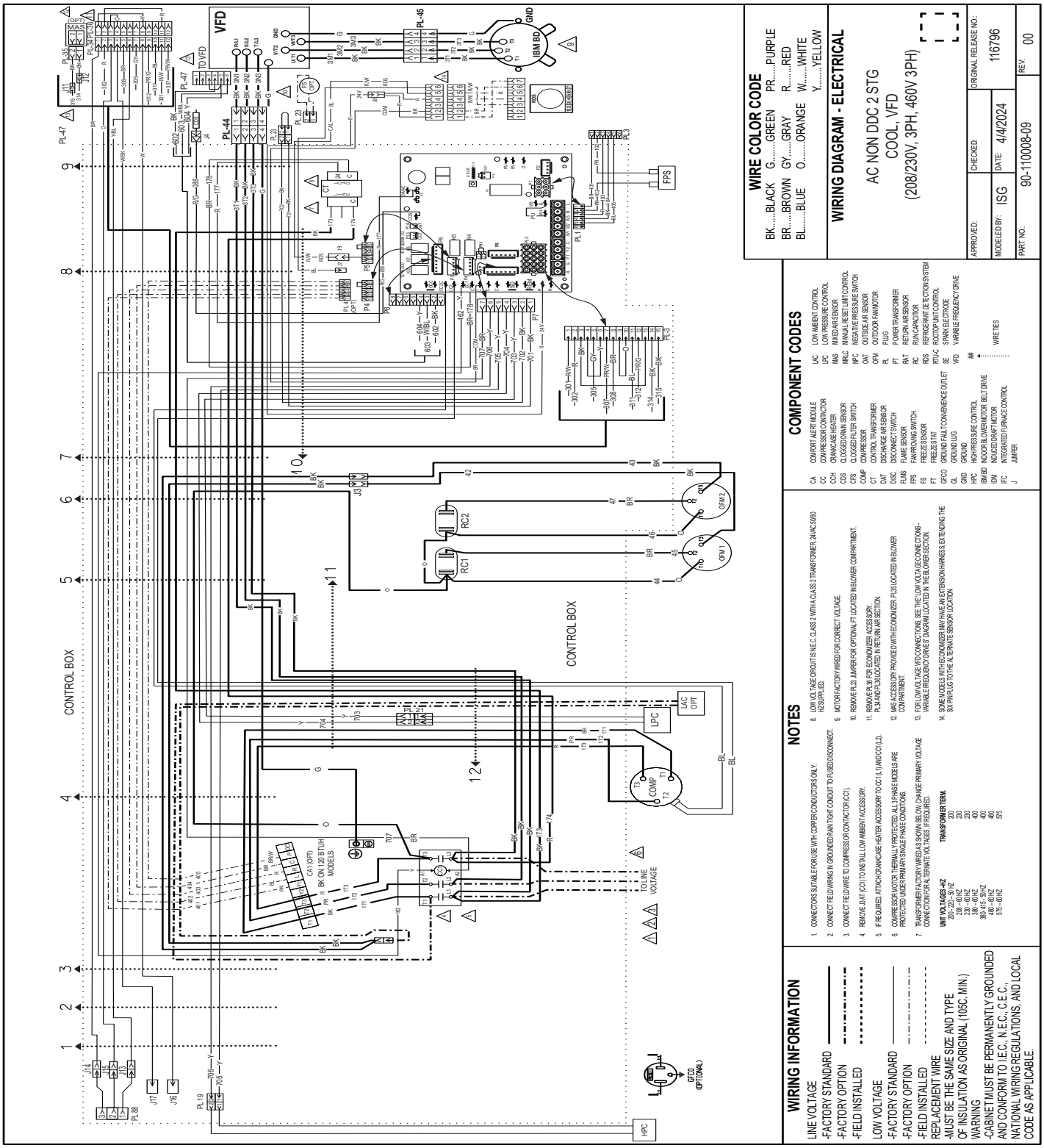


Appendix H. Wiring Diagrams & Schematics (Cont.)

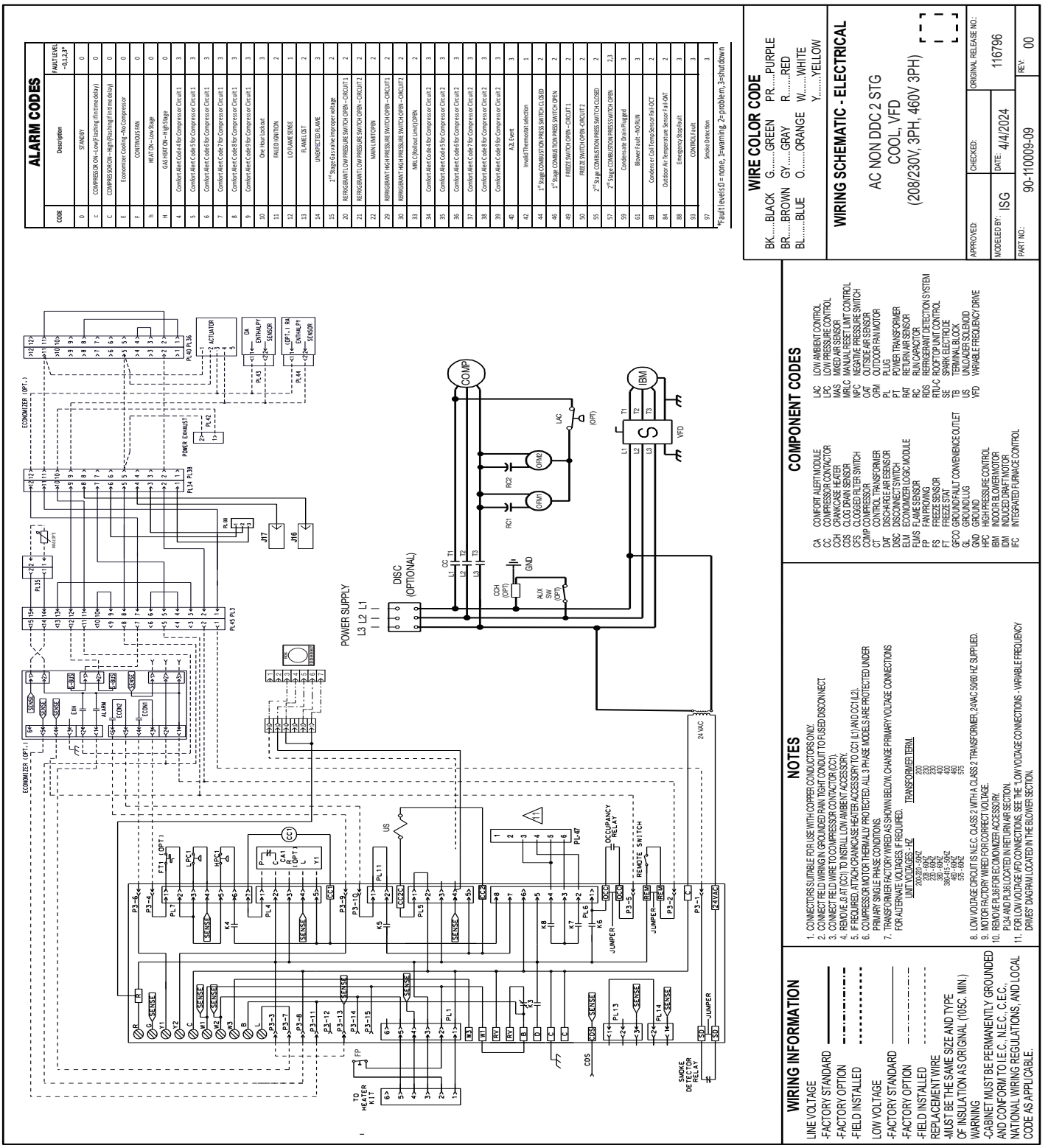


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

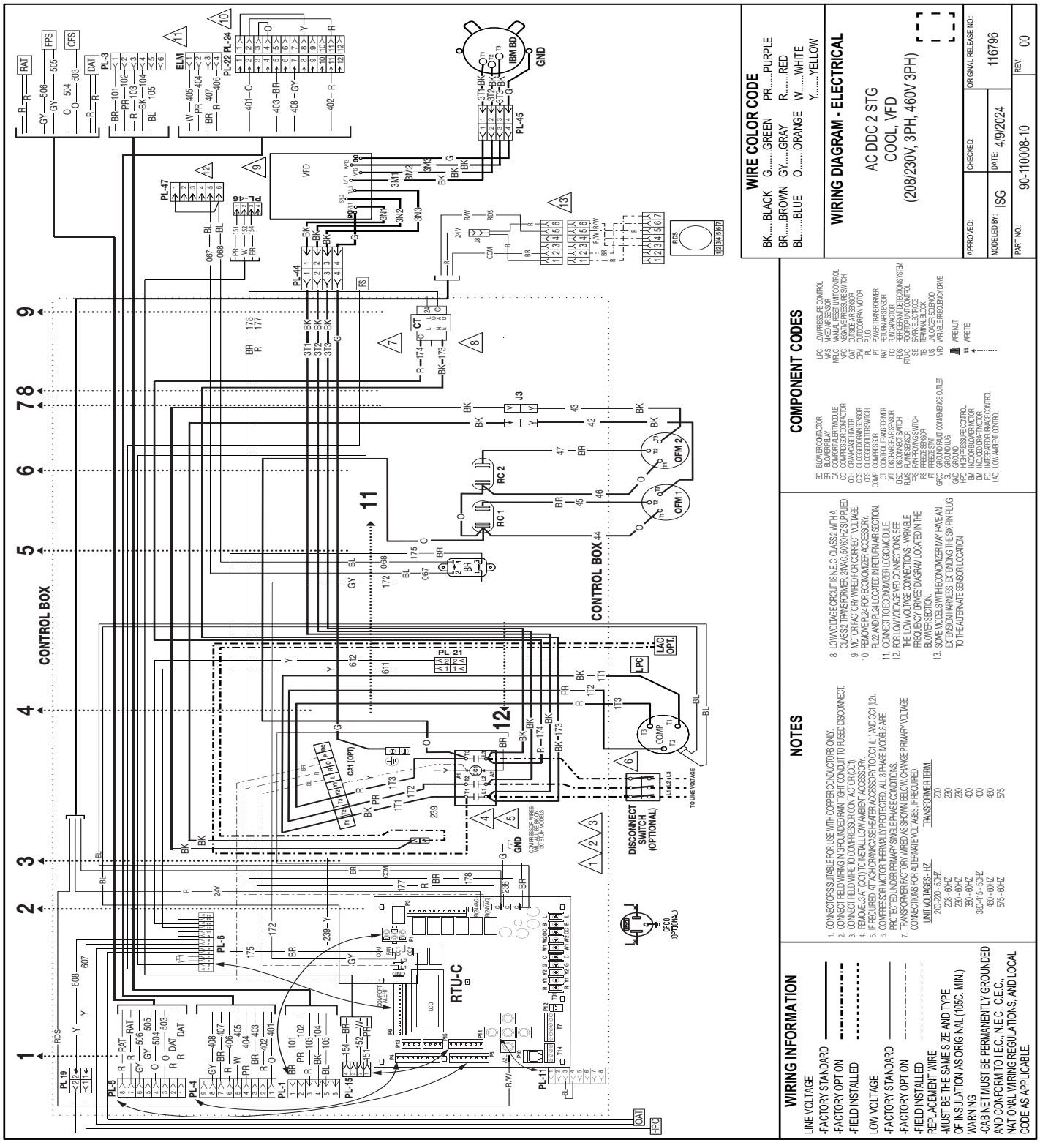


Appendix H. Wiring Diagrams & Schematics (Cont.)

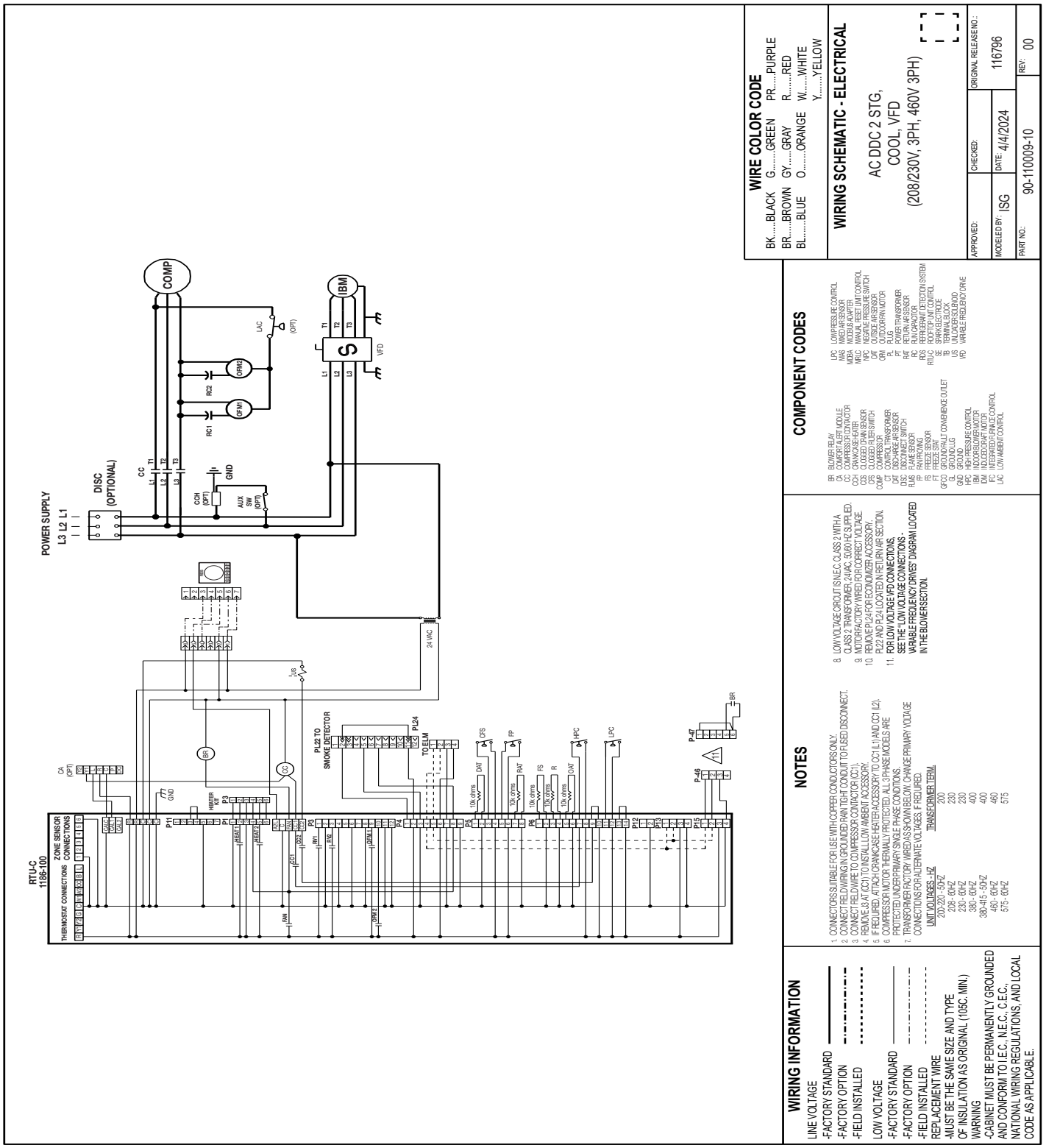


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

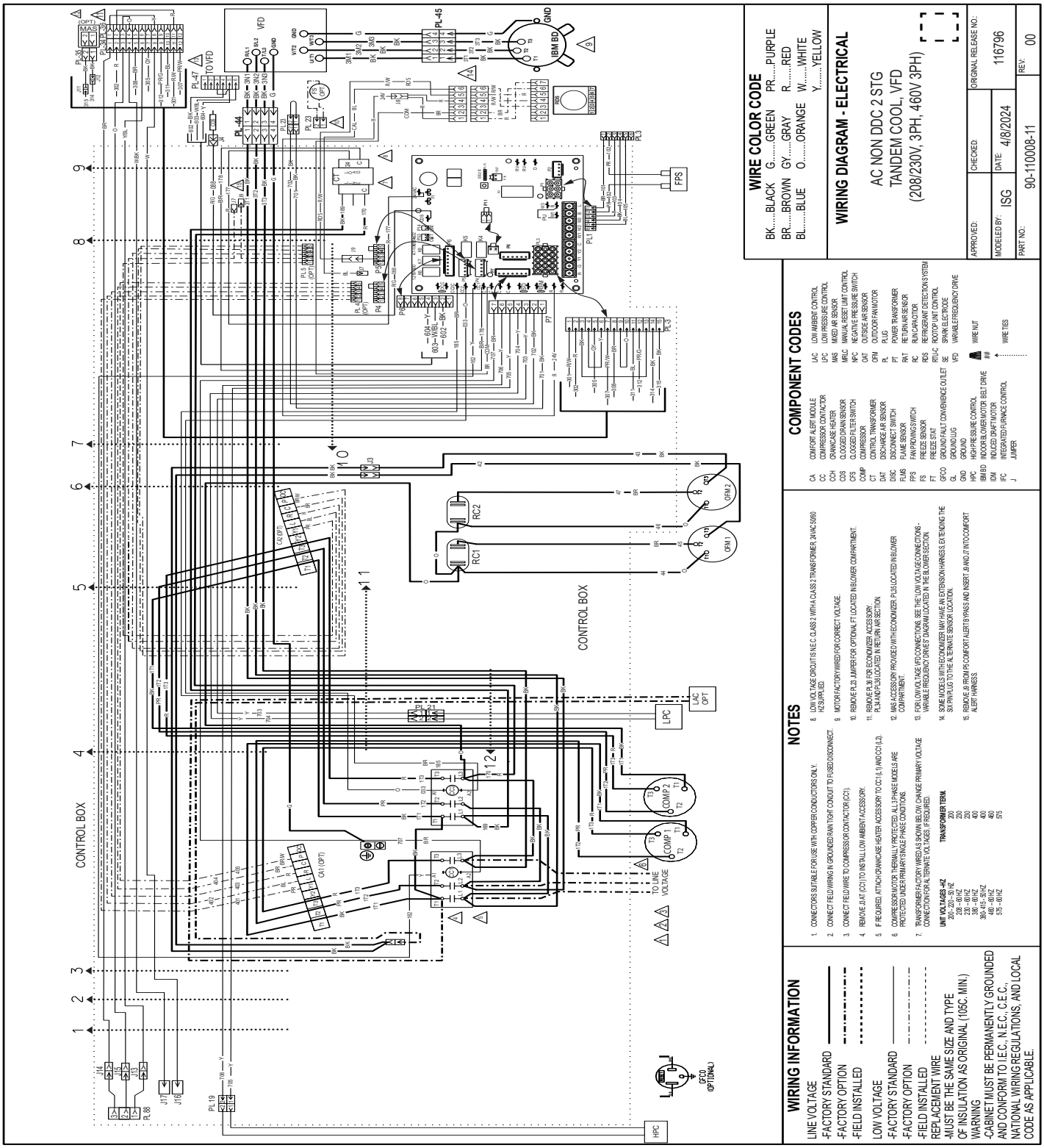


Appendix H. Wiring Diagrams & Schematics (Cont.)

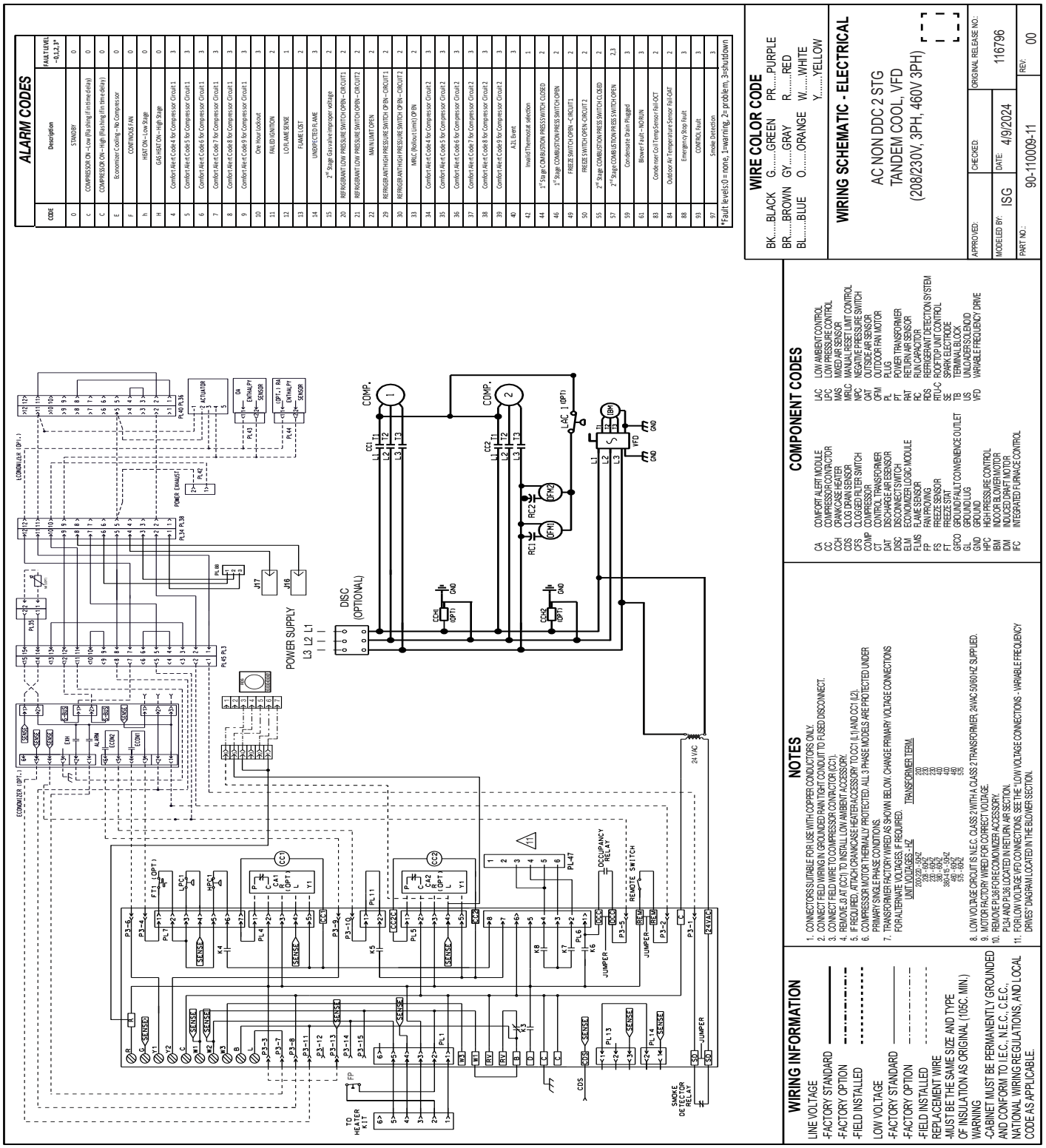


P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)



Appendix H. Wiring Diagrams & Schematics (Cont.)



P. APPENDICES

Appendix H. Wiring Diagrams & Schematics (Cont.)

