



# Diagrams Manual

**Multi-Temperature Trailer Edition  
Precedent™ Wiring and Schematic Diagrams**

Revision A

December 2019

**TK 56709-2-DM-EN**

**TRANE**  
TECHNOLOGIES™



## Introduction

This manual is published for informational purposes only. Thermo King® makes no representations warranties express or implied, with respect to the information recommendations and descriptions contained herein. Information provided should not be regarded as all-inclusive or covering all contingencies. If further information is required, Thermo King Corporation Service Department should be consulted.

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## General Information

The information in this manual covers unit models:

Precedent C-600M  
Precedent S-600DE  
Precedent S-600M

Precedent S-610DE  
Precedent S-610M

The information in this manual is provided to assist owners, operators, and service personnel in the proper upkeep and maintenance of Thermo King units.

## Revision History

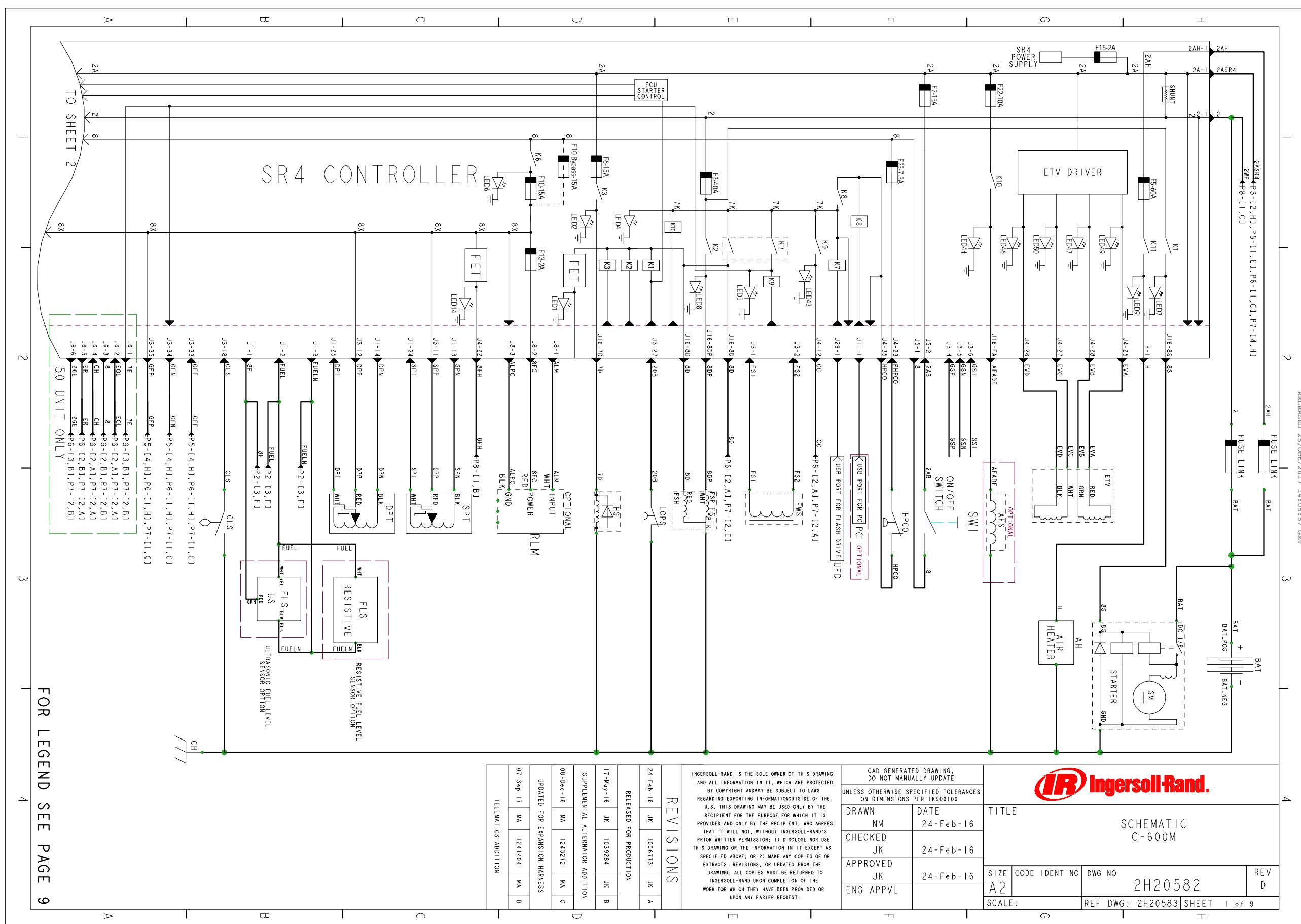
Revision A	(Dec 2019) Manual refresh. 1H78684 removed and replaced by 2H20584 Rev B; removed 1H78685 and replaced by 2H20585 Rev B; 2H20583 updated to Rev E; 2H23814 updated to Rev D; 1H99104 updated to Rev E. Removed Fuel Line Routing diagrams.
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## Diagram Index

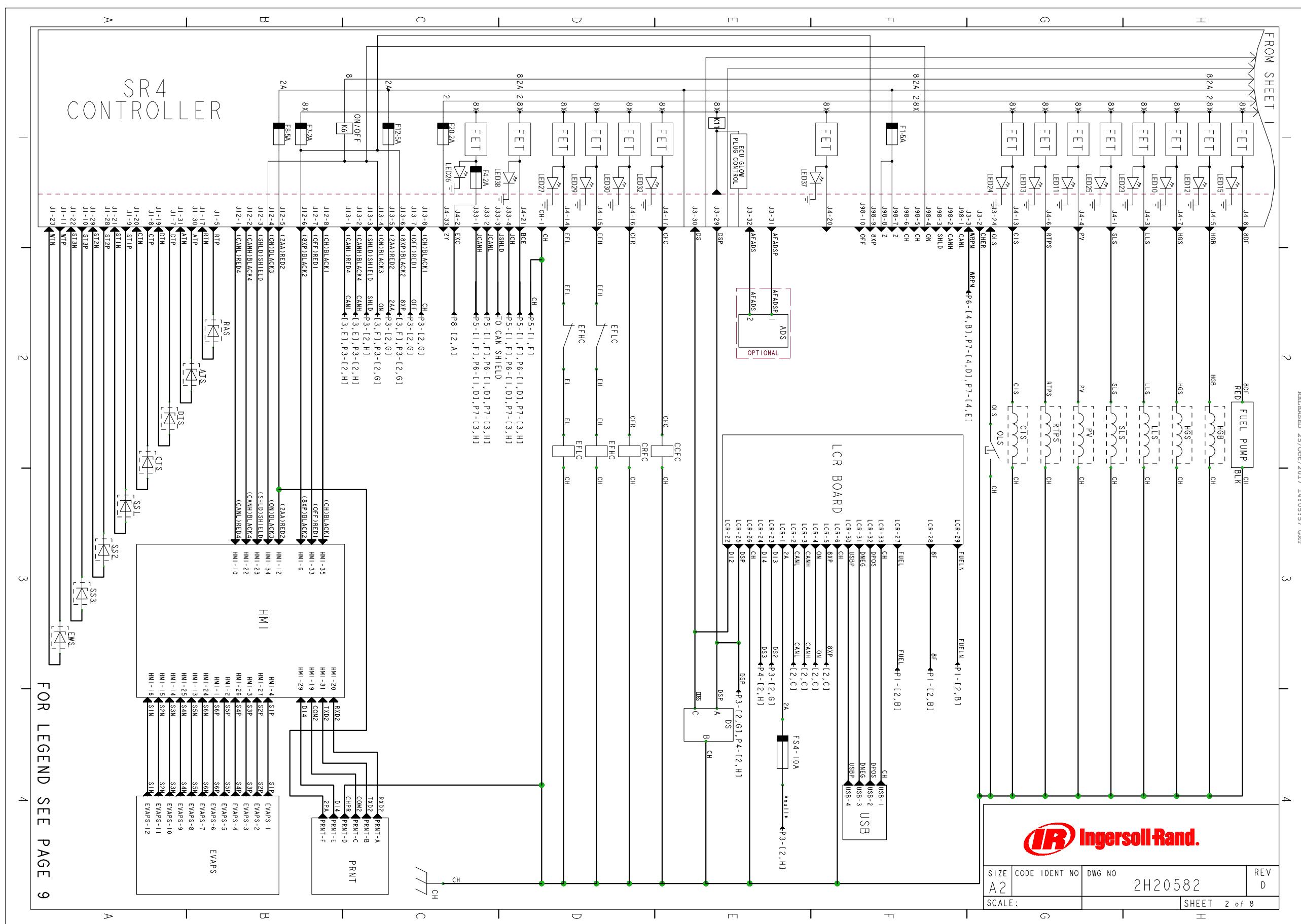
Drawing No.	Title	Page
2H20582	C-600M Schematic Diagram	<a href="#">Figure 1, p. 5 to Figure 9, p. 21</a>
2H20583	C-600M Wiring Diagram	<a href="#">Figure 10, p. 23 to Figure 17, p. 37</a>
2H20586	S-600DE Schematic Diagram	<a href="#">Figure 18, p. 39 to Figure 26, p. 55</a>
2H20587	S-600DE Wiring Diagram	<a href="#">Figure 27, p. 57 to Figure 35, p. 73</a>
2H20584	S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only)	<a href="#">Figure 36, p. 75 to Figure 44, p. 91</a>
2H20585	S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only)	<a href="#">Figure 45, p. 93 to Figure 53, p. 109</a>
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1H99103	S-610M Schematic Diagram	<a href="#">Figure 72, p. 147 to Figure 80, p. 163</a>
1H99104	S-610M Wiring Diagram	<a href="#">Figure 81, p. 165 to Figure 89, p. 181</a>

**Note:** The latest versions of current production unit diagrams show the TK BlueBox™. For the REB option, refer to the non-current unit diagrams such as 1H75822 and 1H75823.

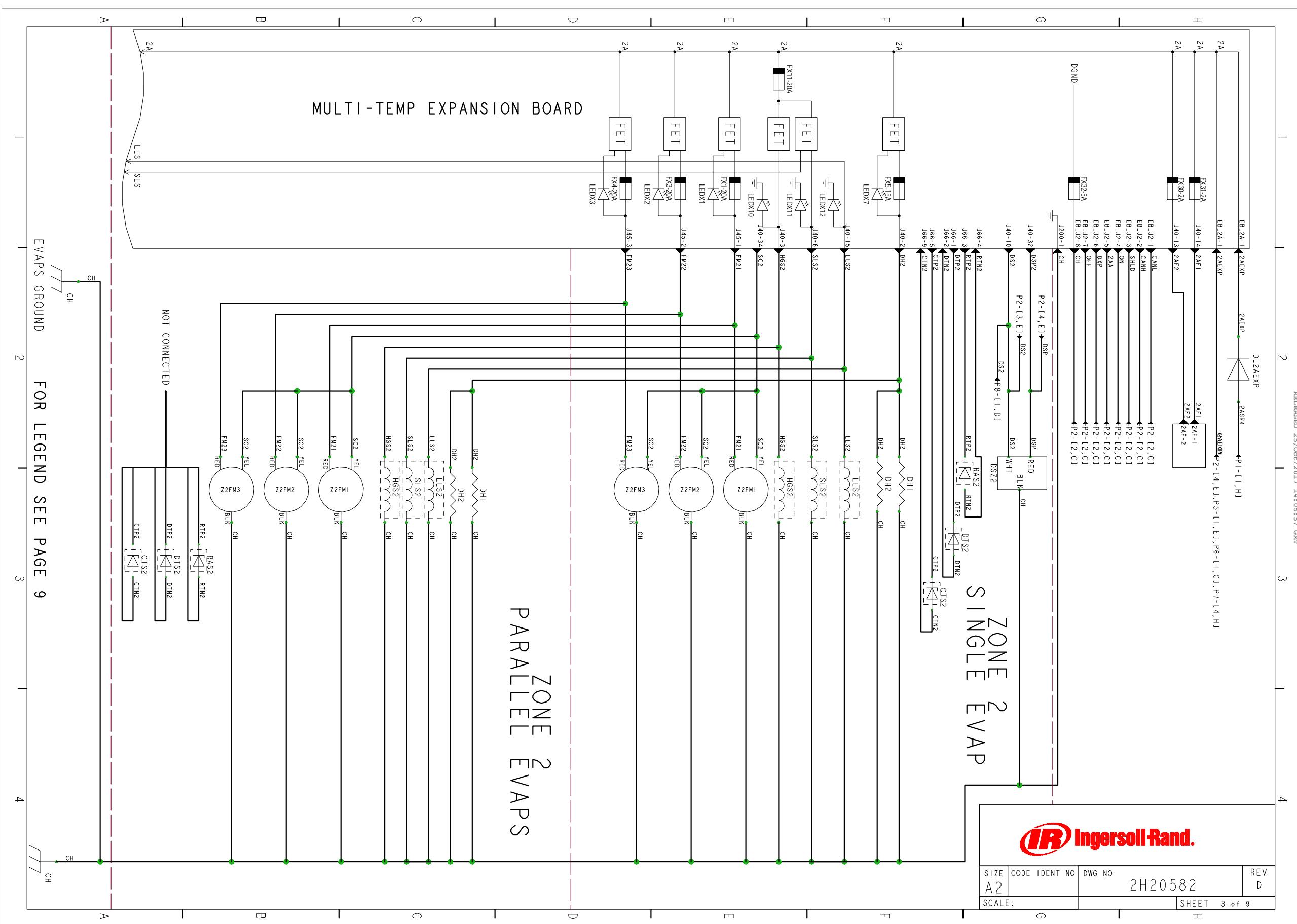
Figure 1. C-600M Schematic Diagram 2H20582 (Sheet 1 of 9)



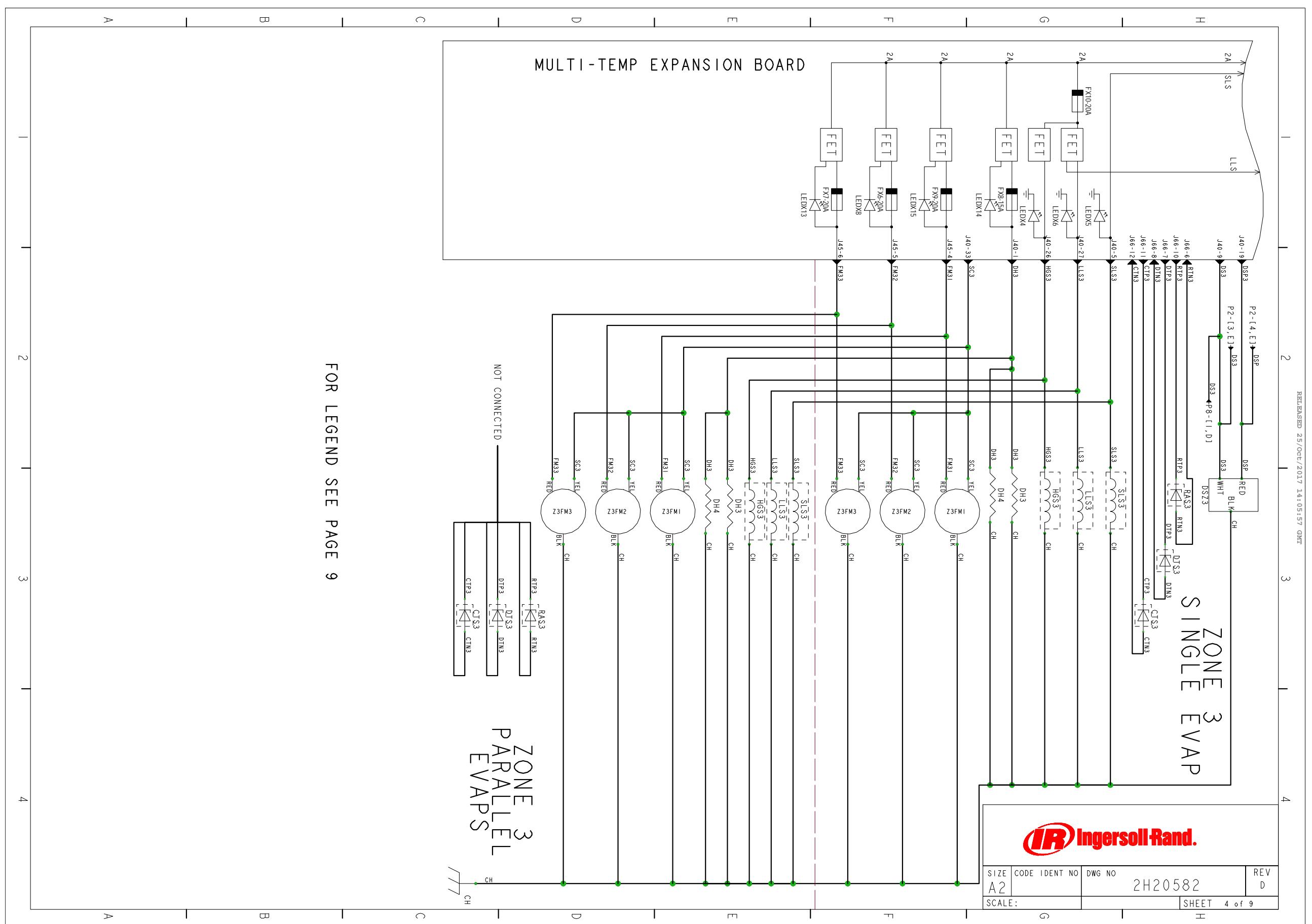
**Figure 2. C-600M Schematic Diagram 2H20582 (Sheet 2 of 9)**



**Figure 3. C-600M Schematic Diagram 2H20582 (Sheet 3 of 9)**

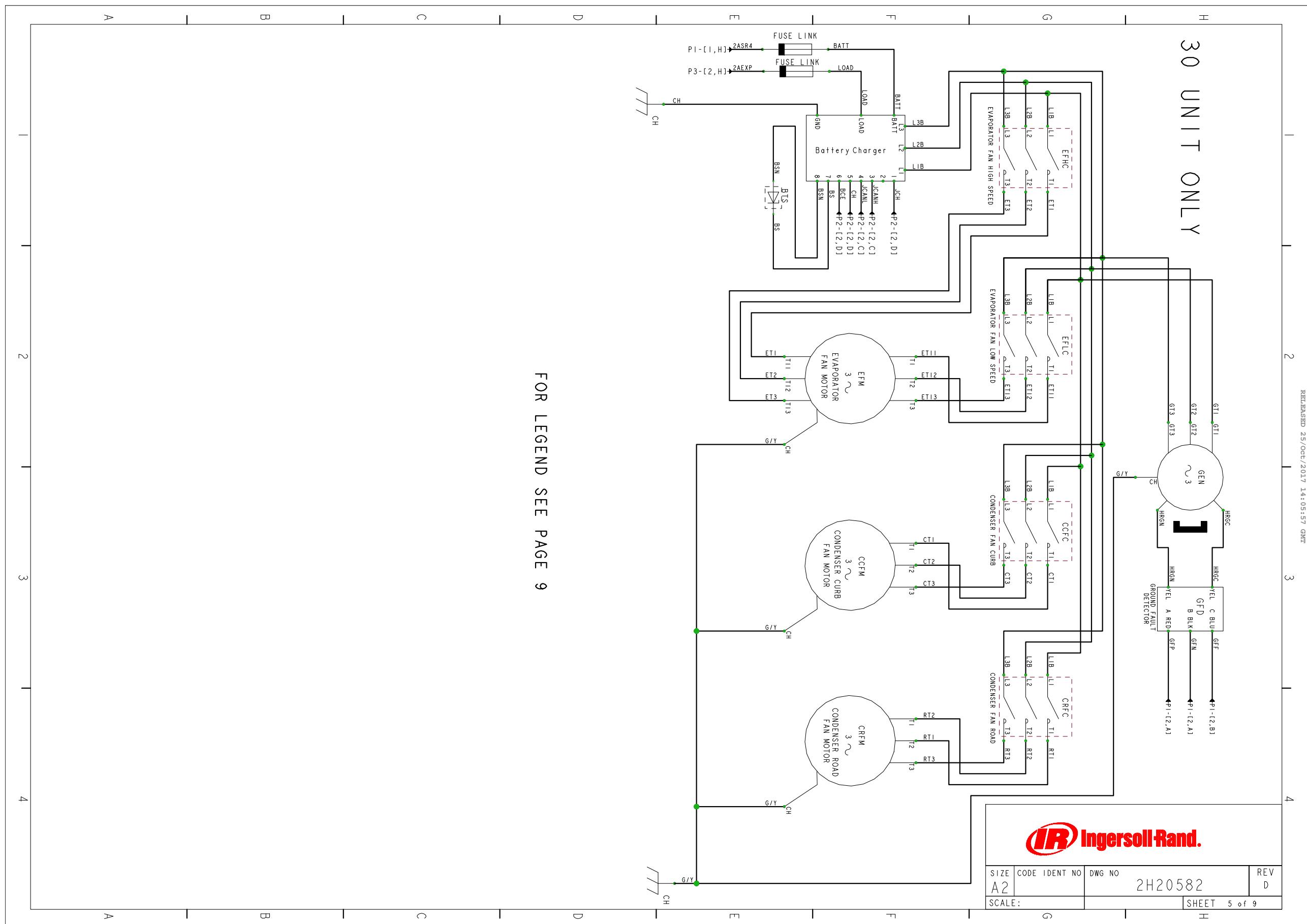


**Figure 4. C-600M Schematic Diagram 2H20582 (Sheet 4 of 9)**

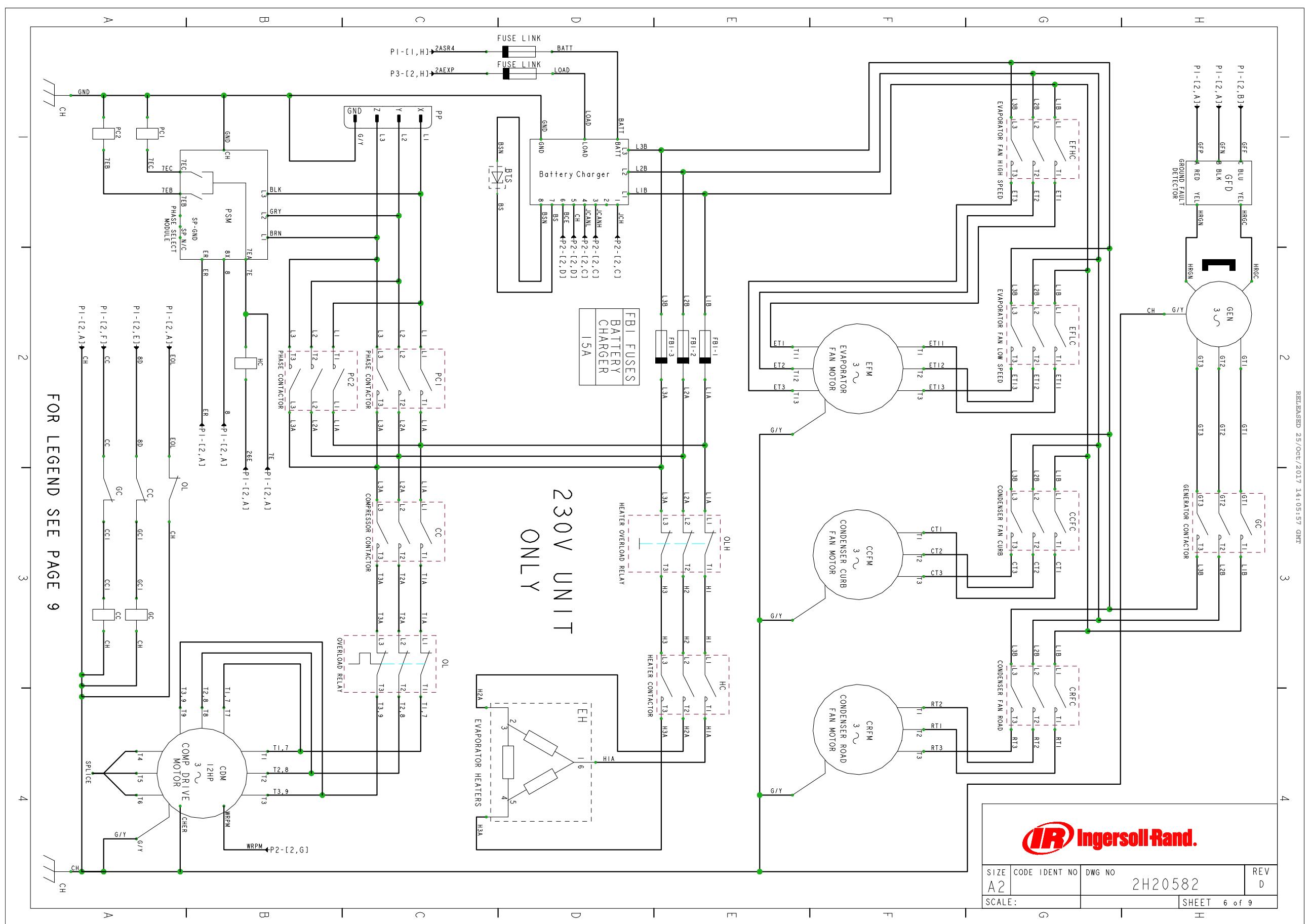


FOR LEGEND SEE PAGE 9

Figure 5. C-600M Schematic Diagram 2H20582 (Sheet 5 of 9)



**Figure 6. C-600M Schematic Diagram 2H20582 (Sheet 6 of 9)**



TK 56709-2-DM-EN

**Figure 7. C-600M Schematic Diagram 2H20582 (Sheet 7 of 9)**

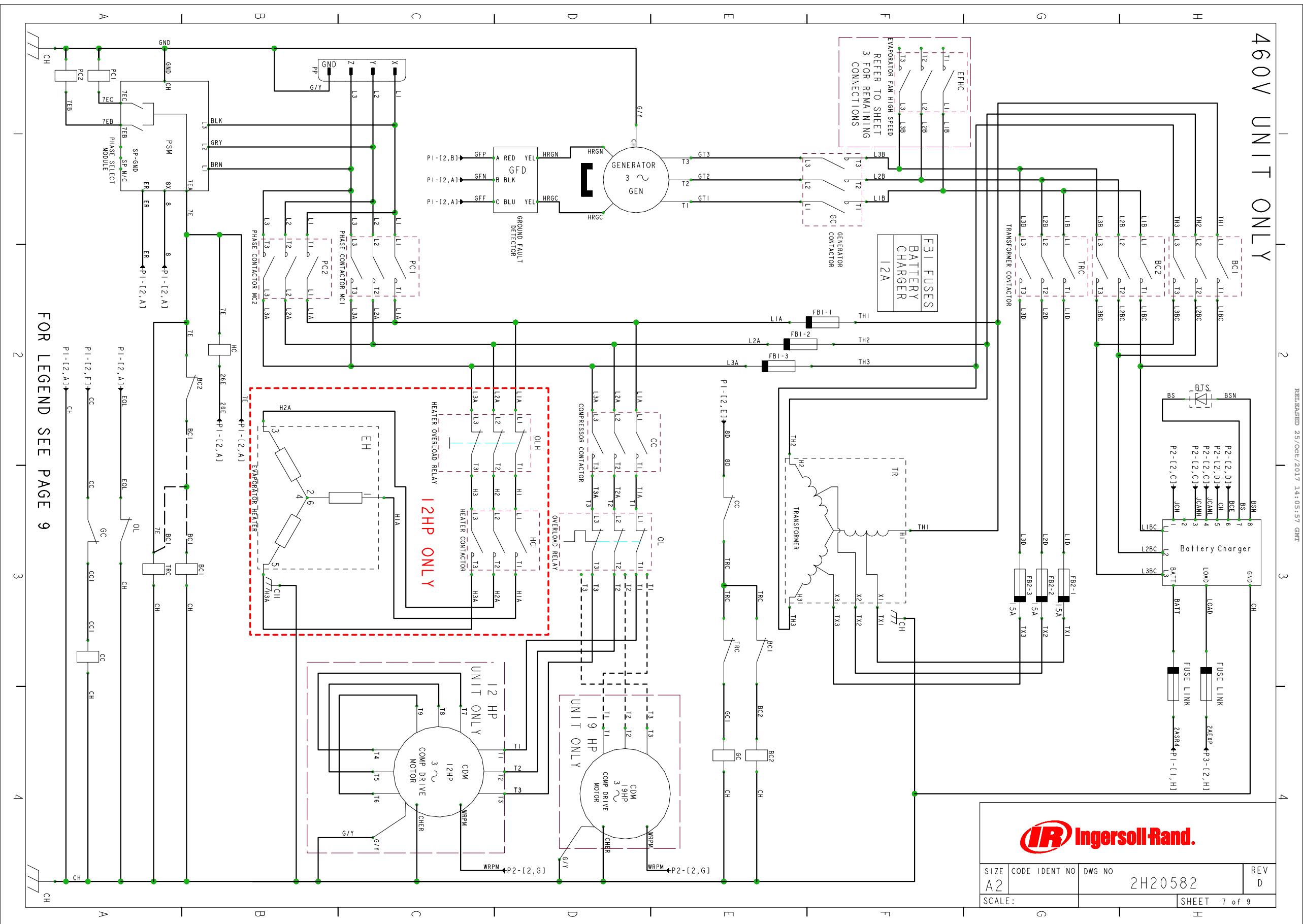


Figure 8. C-600M Schematic Diagram 2H20582 (Sheet 8 of 9)

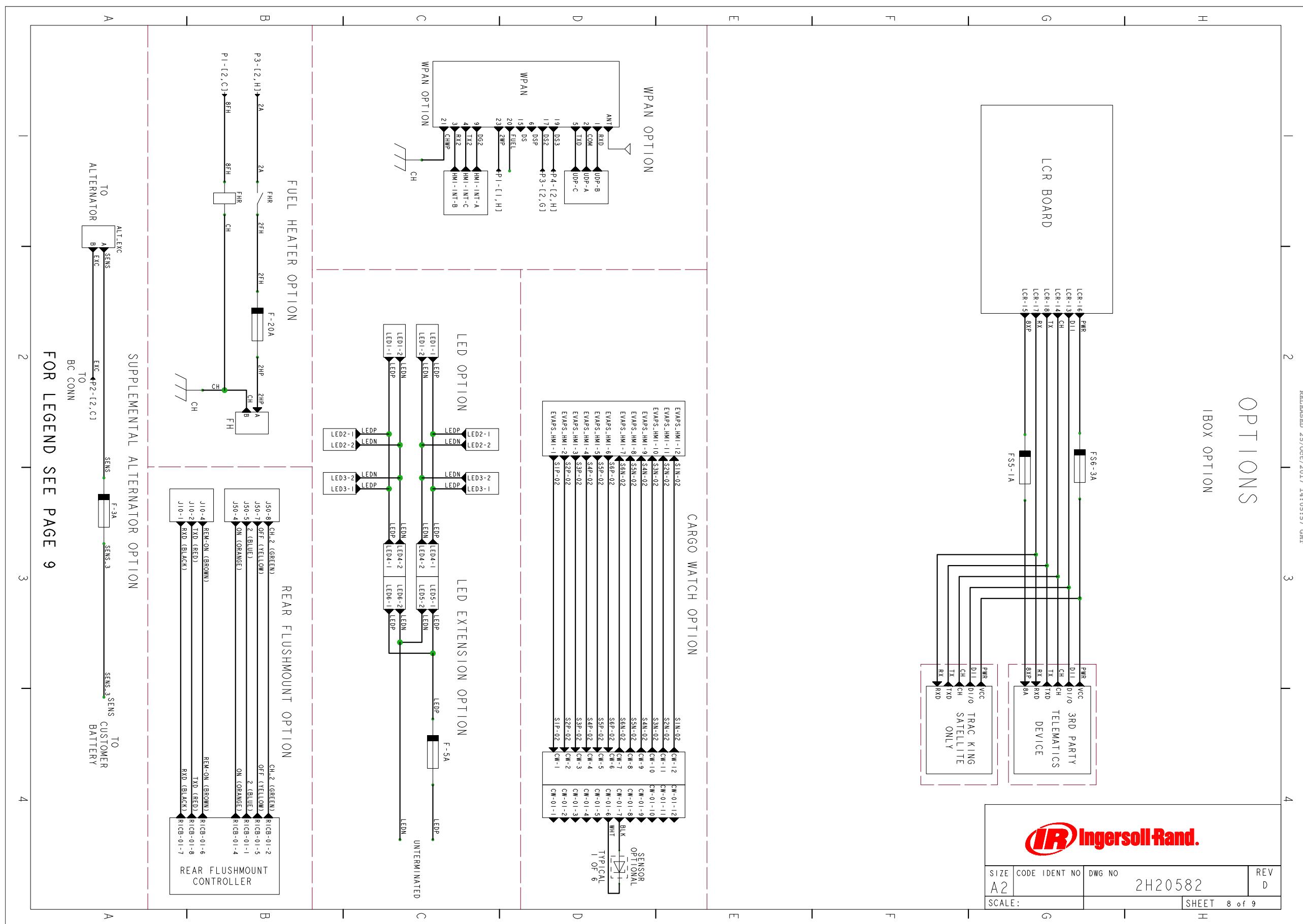


Figure 9. C-600M Schematic Diagram 2H20582 (Sheet 9 of 9)

Schematic Legend					
REF DES	DESCRIPTION	LOCATION	REF DES	DESCRIPTION	LOCATION
F53-1A	FUSE EXPANSION MODULE TO TELEMATICS	8-2G	K8	RELAY ON PCB RUN	1-1F
F54-10A	FUSE TO FB-2A	2-4F	K9	RELAY ON PCB STANDBY MOTOR	1-2F
SUPPLALT	SUPPLEMENTAL ALTERNATOR OPTION	8-2A	K10	RELAY ON PCB AUTO FRESH AIR	1-2D; 1-1G
F-3A	FUSE SENS	8-2A	K11	RELAY ON PCB AIR HEATER	2-1E; 1-1H
F56-3A	FUSE EXPANSION MODULE TO TELEMATICS	8-2G	K12	LED OPTION	8-2C
3TL	3RD PARTY TELEMATICS DEVICE	8-3G	LED1	ECU RUN	1-2D
ADS	AIR DOOR SWITCH OPTION	2-2E	LED2	HIGH SPEED SOLENOID	1-1D
AFS	AUTO FRESH AIR SOLENOID OPTION	1-3G	LED3	LED OPTION	8-3C
AH	AIR HEATER	1-3G	LED4	RUN RELAY 7K	1-1D
ATS	AMBIENT AIR TEMP SENSOR	2-2B	LED5	DIESEL/ELEC RELAY	1-2E
BAT-CHG	BATTERY CHARGER	5-1F; 6-1D; 7-3H	LED6	ON/OFF 8X	1-1D
BC1	BATTERY CHARGER CONTACTOR 1	7-1H	LED7	STARTER RELAY	1-2H
BC2	BATTERY CHARGER CONTACTOR 2	7-1H	LED8	FUEL SOL PULL IN 8DP	1-2E
BTS	BATTERY TEMPERATURE SENSOR	5-1E; 6-1C; 7-2H	LED9	PRE-HEAT RELAY	1-2H
CARGO	CARGO SENSORS	2-4B; 8-2D	LED10	HOT GAS SOLENOID	2-1H
CC	COMPRESSOR CONTACTOR	6-3A; 6-3C; 7-2D; 7-3A; 7-3E	LED11	PURGE VALVE	2-1G
CIS	CONDENSER INLET SOLENOID	1-3B	LED12	HOT GAS BYPASS	2-1H
CCFC	CONDENSER CURB SIDE FAN CONTACTOR	2-5E; 6-3G	LED13	RECEIVER TANK PRESSURE SOLENOID	2-1G
CRIM	CONDENSER ROAD SIDE FAN CONTACTOR	5-4F; 6-4F	LED14	FUEL HEATER	1-2C
CTS	COIL TEMP SENSOR	2-2A	LED15	EVAPORATOR FAN HIGH SPEED	2-1D
CTS2	COIL TEMP SENSOR ZONE 2	3-3F; 3-3A	LED16	ELECTRIC STANDBY MOTOR	1-2E
CTS3	COIL TEMP SENSOR ZONE 3	4-3H; 4-3C	LED17	AUTO FRESH AIR FADE	1-1F
DHT	CONDENSER INLET SOLENOID	1-3C	LED18	ELECTRIC THROTTLING VALVE - EVD	1-1G
DH2	CONDENSER ROAD SIDE FAN	2-2D; 5-4G; 6-4G	LED19	ELECTRIC THROTTLING VALVE - EVB	1-1G
DH3	CONDENSER CURB SIDE FAN	5-4F; 6-4F	LED20	ELECTRIC THROTTLING VALVE - EVA	1-1G
DH4	CONDENSER INLET SOLENOID	2-2A	LED21	ELECTRIC THROTTLING VALVE - EVC	3-1E
DPT	DISCHARGE AIR TEMP SENSOR	3-3F; 3-3A	LED22	MOTOR FM22	3-1E
DS	DISCHARGE PRESSURE TRANSDUCER	4-3H; 4-3C	LED23	MOTOR FM23	4-1G
DS22	DOOR SWITCH	2-4F	LED24	MOTOR FM23	4-1G
DS23	DOOR SWITCH ZONE 2	3-3G	LED25	OVERLOAD RELAY HEATERS	3-1E
DTS	DISCHARGE AIR TEMP SENSOR ZONE 1	4-3H	LED26	OIL LEVEL SWITCH	3-1E
DTS2	DISCHARGE AIR TEMP SENSOR ZONE 2	2-2A	LED27	USB PORT FOR PC OPTION	1-2F
DTS3	DISCHARGE AIR TEMP SENSOR ZONE 3	4-3G; 4-3E	LED28	PHASE SELECT MODULE	4-1E
EFHC	EVAPORATOR FAN HIGH SPEED CONTACTOR	1-3C	LED29	PHASE CONTACTOR (NOT REVERSED)	6-1A; 6-2B; 7-1A; 7-1B
ELFC	EVAPORATOR FAN LOW SPEED CONTACTOR	2-4E	LED30	POWER PLUG	4-1F
EM	EVAPORATOR MOTOR	2-2D; 5-2G; 6-2G	LED31	PRINTER PORT	2-2H
EH	EVAPORATOR HEATERS	5-2F; 6-2G	LED32	RPM	3-1F
ETV	ELECTRIC THROTTLE VALVE	1-2G	LED33	PSM	4-3G; 4-3E
EWS	COOL TEMP SENSOR	2-3A	LED34	PSU	1-3D
FT-5A	FUSE ON SR4 TO HIGH SPEED SOLENOID	8-4C	LED35	RETURN AIR TEMP SENSOR	6-3A; 6-3C; 7-3A; 7-3D
F2-15A	FUSE ON SR4 TO HIGH SPEED SOLENOID	2-1F	LED36	RETURN AIR TEMP SENSOR ZONE 2	6-3E; 7-2C
F3-40A	FUSE ON SR4 TO FUEL SOLENOID POWER/STARTER	1-1E	LED37	REMOTE LIGHT MODULE	2-2G
F4-2A	FUSE ON SR4 TO ALTERNATOR	2-1C	LED38	RECEIVER TANK PRESSURE SOLENOID	3-1F; 3-3C
F5-60A	FUSE ON SR4 TO AIR HEATER	1-1H	LED39	SUCTION LINE SOLENOID ZONE 3	2-2H
F-5A	FUSE LED	8-4C	LED40	SUCTION LINE SOLENOID ZONE 2	3-3F; 3-3C
F5-15A	FUSE ON SR4 TO REB BOARD	2-1F	LED41	SUCTION LINE SOLENOID ZONE 3	4-3G; 4-3D
F7-2A	FUSE ON SR4 TO HIGH SPEED SOLENOID	1-1F	LED42	STARTER MOTOR	1-3H
F8-5A	FUSE ON SR4 TO FUEL SOLENOID	2-1B	LED43	SUCTION LINE SOLENOID ZONE 1	6-1A; 6-2B; 7-1A; 7-1B
F10 Bypass-15A	FUSE ON SR4 TO BYPASS HMI CONTROL	1-1D	LED44	SUCTION LINE SOLENOID ZONE 1	6-1C; 7-1C
F10-15A	FUSE ON SR4 TO BYPASS HMI CONTROL	1-1D	LED45	SUCTION LINE SOLENOID ZONE 1	6-2A; 6-2C; 7-1A; 7-1C
F12-5A	FUSE ON SR4 TO HPCO	2-1F	LED46	SUCTION LINE SOLENOID ZONE 1	6-2B; 7-1A
F13-2A	FUSE ON SR4 TO RTRM	1-2D	LED47	SUCTION LINE SOLENOID ZONE 1	2-4B
F15-2A	FUSE ON SR4 FROM K6, BYPASS HMI CONTROL	1-1G	LED48	SUCTION LINE SOLENOID ZONE 1	2-4B
F20-2A	FUSE ON SR4 TO THRM	2-1C	LED49	SUCTION LINE SOLENOID ZONE 1	3-1F
F20A	FUSE FUEL HEATER	8-2B	LED50	SUCTION LINE SOLENOID ZONE 1	4-1G
F22-10A	FUSE ON SR4 TO AFS	1-1G	LED51	SUCTION LINE SOLENOID ZONE 1	4-1G
F25-7.5A	FUSE ON SR4 FROM K6, BYPASS HMI CONTROL	1-1D	LED52	SUCTION LINE SOLENOID ZONE 1	4-1G
F25-7.5A	FUSE ON SR4 TO HIGH SPEED SOLENOID	2-1B	LED53	SUCTION LINE SOLENOID ZONE 1	4-1G
F81-12A	FUSE ON SR4 TO HMI	2-1B	LED54	SUCTION LINE SOLENOID ZONE 1	4-1G
FB1-15A	FUSE ON SR4 TO BYPASS HMI CONTROL	1-1D	LED55	SUCTION LINE SOLENOID ZONE 1	4-1G
FB2-15A	FUSE ON SR4 TO BYPASS HMI CONTROL	1-1D	LED56	SUCTION LINE SOLENOID ZONE 1	4-1G
FH	FUEL HEATER	2-1F	LED57	SUCTION LINE SOLENOID ZONE 1	4-1G
FHR	FUEL HEATER RELAY	8-1B	LED58	SUCTION LINE SOLENOID ZONE 1	4-1G
FLS	RESISTIVE FUEL LEVEL SENSOR OPTION	1-3C	LED59	SUCTION LINE SOLENOID ZONE 1	4-1G
FLS	ULTRASONIC FUEL LEVEL SENSOR OPTION	1-3B	LED60	SUCTION LINE SOLENOID ZONE 1	4-1G
FP	FLUSHMOUNT	8-4A	LED61	SUCTION LINE SOLENOID ZONE 1	4-1G
FS	FUEL PUMP	2-2H	LED62	SUCTION LINE SOLENOID ZONE 1	4-1G
FU	FUEL SOLENOID	1-3E	LED63	SUCTION LINE SOLENOID ZONE 1	4-1G
FUS	FUSE BATTERY TO SR4 BOARD	1-2H	LED64	SUCTION LINE SOLENOID ZONE 1	4-1G
FUS	FUSE LINK	5-1E; 6-1D; 7-3H	LED65	SUCTION LINE SOLENOID ZONE 1	4-1G
FUS	FUSE LINK BATTERY TO ECU	1-2H	LED66	SUCTION LINE SOLENOID ZONE 1	4-1G
FUS	FUSE BLOCK TRANSFORMER SECONDARY	7-3G	LED67	SUCTION LINE SOLENOID ZONE 1	4-1G
FWS	FUEL HEATER	8-2B; 8-2B	LED68	SUCTION LINE SOLENOID ZONE 1	4-1G
FY	FYEWHEEL SENSOR	1-3E	LED69	SUCTION LINE SOLENOID ZONE 1	4-1G
FX1-20A	FUSE ZONE 2 MOTOR 1	3-1E	LED70	SUCTION LINE SOLENOID ZONE 1	4-1G
FX3-20A	FUSE ZONE 2 MOTOR 2	3-1E	LED71	SUCTION LINE SOLENOID ZONE 1	4-1G
FX4-20A	FUSE ZONE 2 MOTOR 3	3-1D	LED72	SUCTION LINE SOLENOID ZONE 1	4-1G
FX5-15A	FUSE ZONE 2 DURAN HOSE HEATER	3-1F	LED73	SUCTION LINE SOLENOID ZONE 1	4-1G
FX6-20A	FUSE ZONE 2 DURAN HOSE HEATER	4-1F	LED74	SUCTION LINE SOLENOID ZONE 1	4-1G
FX7-20A	FUSE ZONE 2 MOTOR 3	4-1F	LED75	SUCTION LINE SOLENOID ZONE 1	4-1G
FX8-15A	FUSE ZONE 3 DURAN HOSE HEATER	4-1G	LED76	SUCTION LINE SOLENOID ZONE 1	4-1G
FX9-20A	FUSE ZONE 3 DURAN HOSE HEATER	4-1F	LED77	SUCTION LINE SOLENOID ZONE 1	4-1G
FX10-20A	FUSE LLS2/LSL3/HG53	4-1G	LED78	SUCTION LINE SOLENOID ZONE 1	4-1G
FX11-20A	FUSE SL2/SLS3/HG52	4-1G	LED79	SUCTION LINE SOLENOID ZONE 1	4-1G
FX12-20A	SPARE	3-1H	LED80	SUCTION LINE SOLENOID ZONE 1	4-1G
FX13-2A	SPARE	3-1H	LED81	SUCTION LINE SOLENOID ZONE 1	4-1G
FX14-20A	DIGITAL GROUND	3-1G	LED82	SUCTION LINE SOLENOID ZONE 1	4-1G
GC	GENERATOR CONTACTOR	4-1F	LED83	SUCTION LINE SOLENOID ZONE 1	4-1G
GEN	GENERATOR	4-1F	LED84	SUCTION LINE SOLENOID ZONE 1	4-1G
GFD	GROUND FAULT DETECTOR	5-3H; 6-2H; 7-1D	LED85	SUCTION LINE SOLENOID ZONE 1	4-1G
HC	HEATER CONTACTOR	5-3H; 6-1H; 7-1D	LED86	SUCTION LINE SOLENOID ZONE 1	4-1G
HGB	HOT GAS BYPASS	6-2B; 6-3E; 7-3D	LED87	SUCTION LINE SOLENOID ZONE 1	4-1G
HS	HOT GAS SOLENOID HOST ZONE 1	2-2H	LED88	SUCTION LINE SOLENOID ZONE 1	4-1G
K1	HUMAN/MACHINE INTERFACE	3-3E	LED89	SUCTION LINE SOLENOID ZONE 1	4-1G
K2	HOT GAS SOLENOID ZONE 2	3-3E	LED90	SUCTION LINE SOLENOID ZONE 1	4-1G
K3	HOT GAS SOLENOID HOST ZONE 3	4-3G; 4-3E	LED91	SUCTION LINE SOLENOID ZONE 1	4-1G
K6	HIGH SPEED SOLENOID	2-2B	LED92	SUCTION LINE SOLENOID ZONE 1	4-1G
K7	RELAY ON PCB STARTER	1-2D; 1-2H	LED93	SUCTION LINE SOLENOID ZONE 1	4-1G
RELAY ON PCB FUEL SOL PULL IN	1-2D; 1-2E	LED94	SUCTION LINE SOLENOID ZONE 1	4-1G	
RELAY ON PCB HIGH SPEED SOL	1-2D; 1-1D	LED95	SUCTION LINE SOLENOID ZONE 1	4-1G	
RELAY ON PCB ON/OFF	1-2D; 1-1D	LED96	SUCTION LINE SOLENOID ZONE 1	4-1G	
RELAY ON PCB DIESEL/ELECTRIC	1-2F	LED97	SUCTION LINE SOLENOID ZONE 1	4-1G	

 Ingersoll Rand.

SIZE	CODE IDENT NO	DWG NO	REV D
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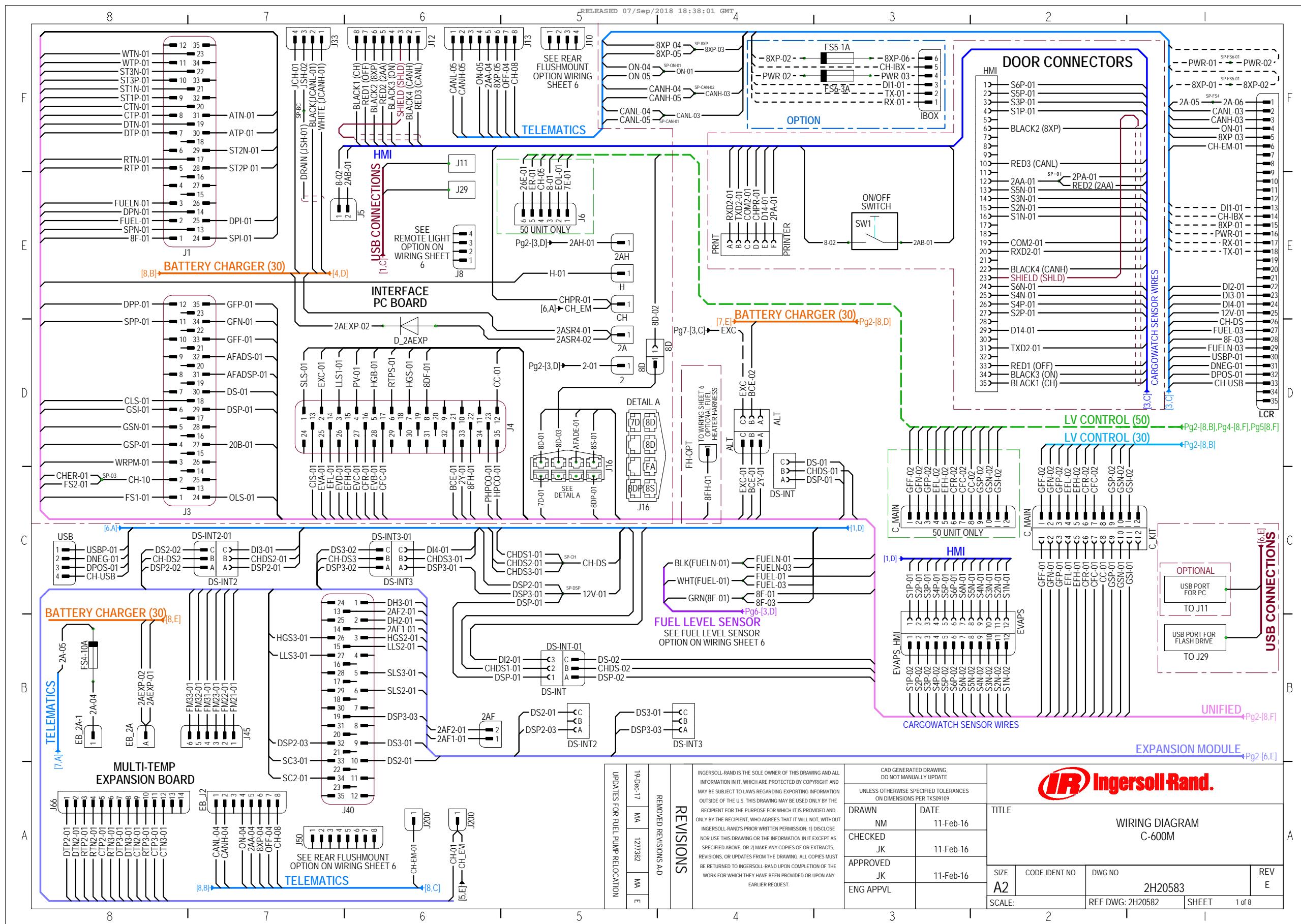
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Figure 10. C-600M Wiring Diagram 2H20583 (Sheet 1 of 8)



**Figure 11. C-600M Wiring Diagram 2H20583 (Sheet 2 of 8)**

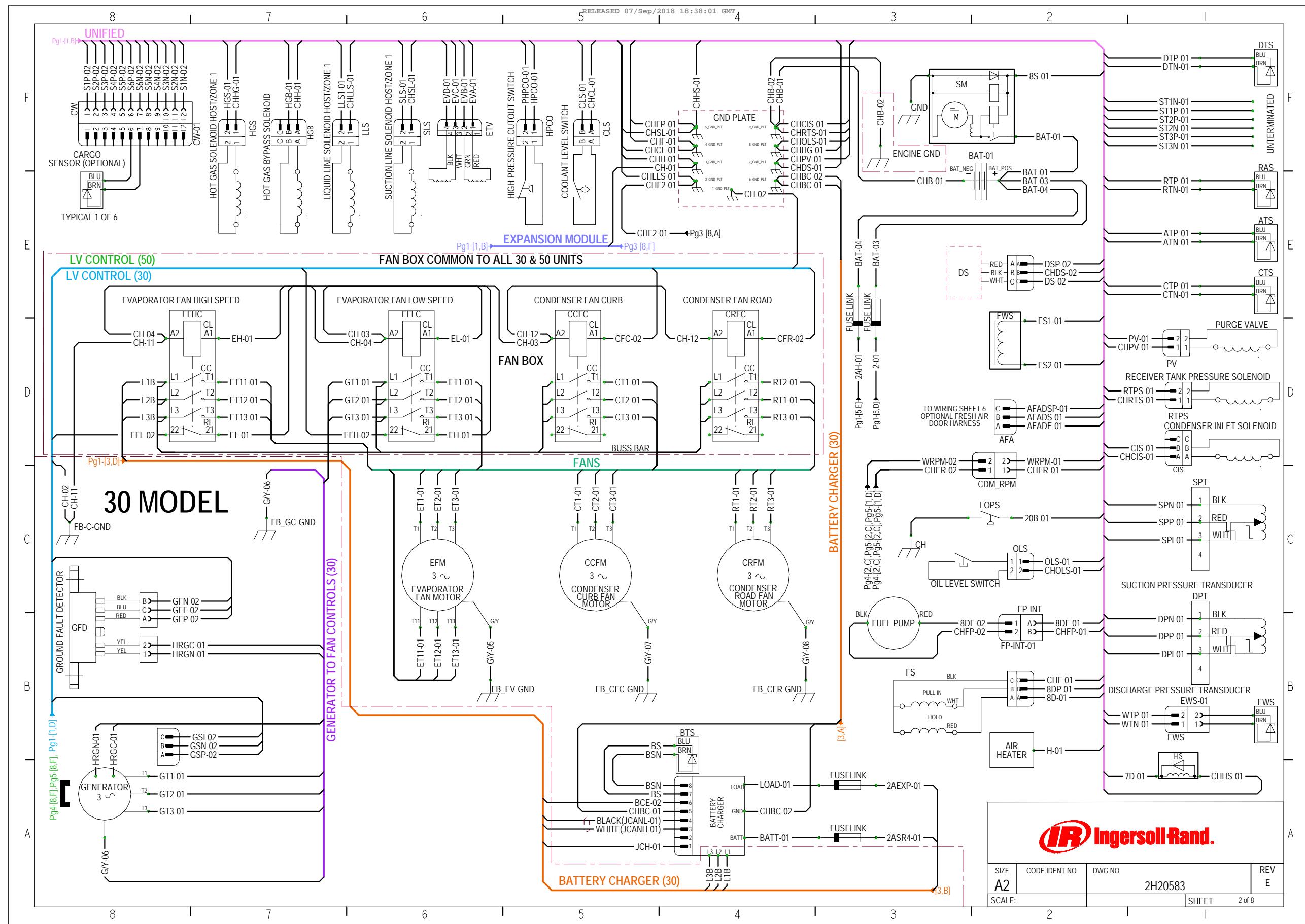


Figure 12. C-600M Wiring Diagram 2H20583 (Sheet 3 of 8)

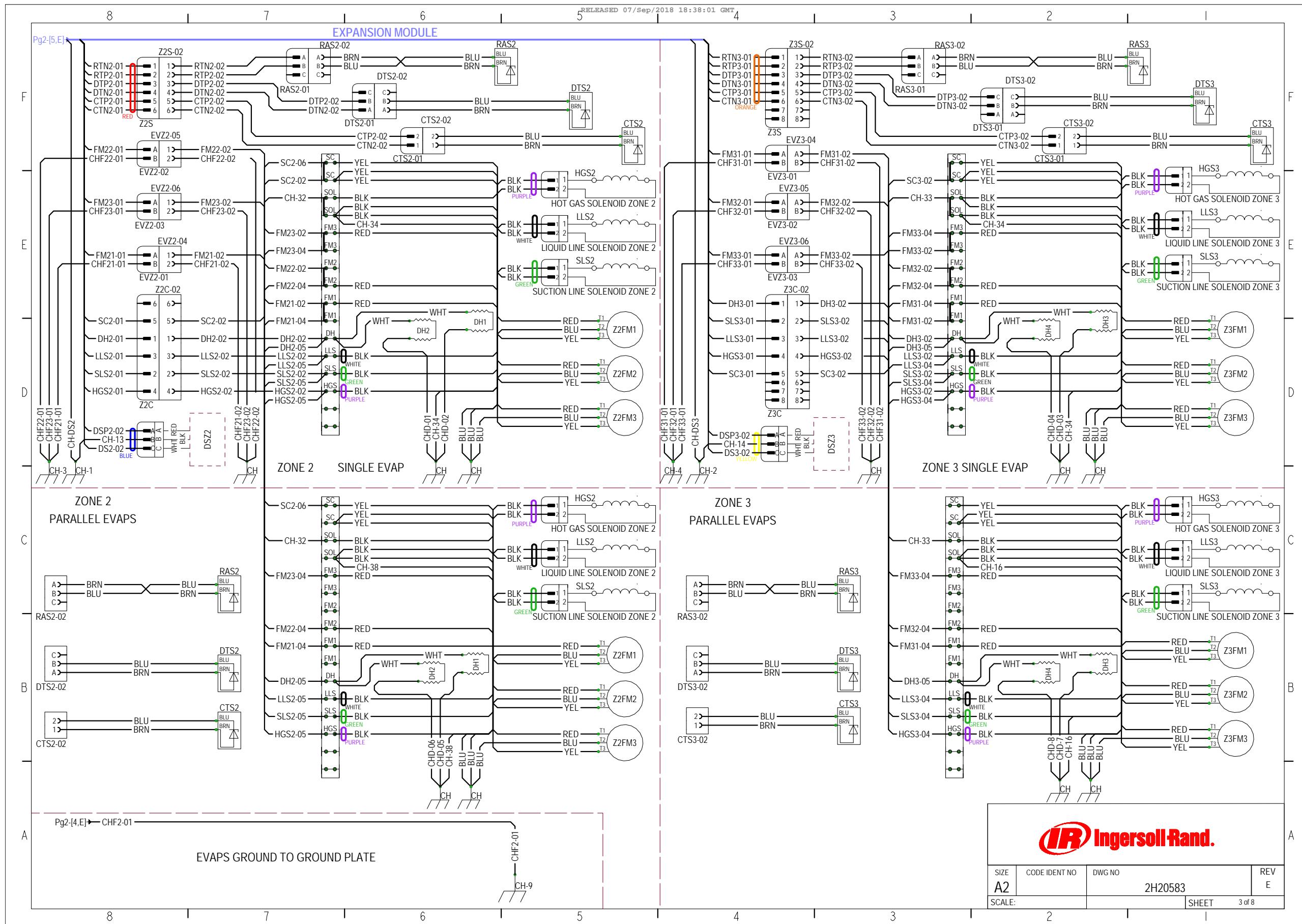


Figure 13. C-600M Wiring Diagram 2H20583 (Sheet 4 of 8)

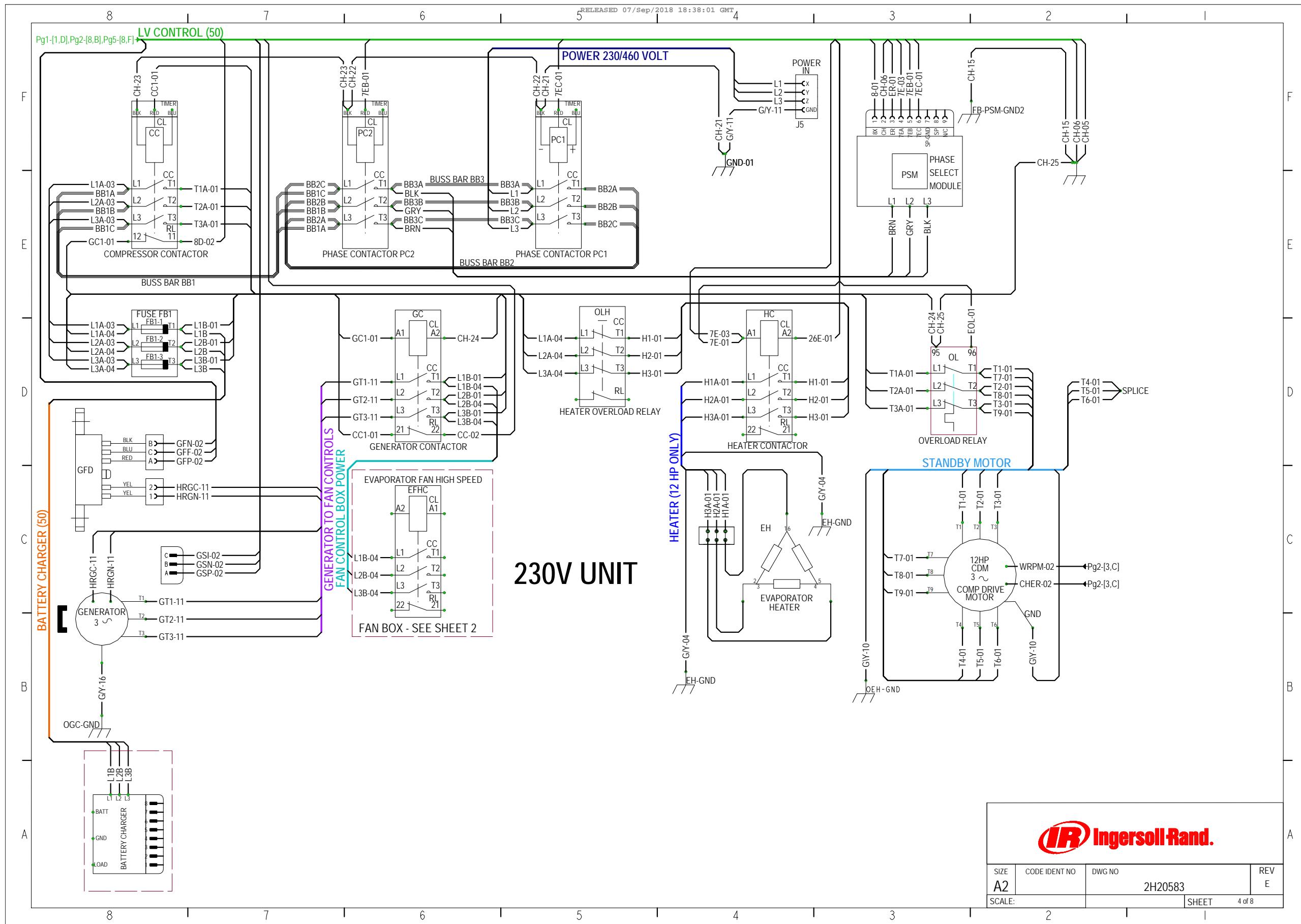


Figure 14. C-600M Wiring Diagram 2H20583 (Sheet 5 of 8)

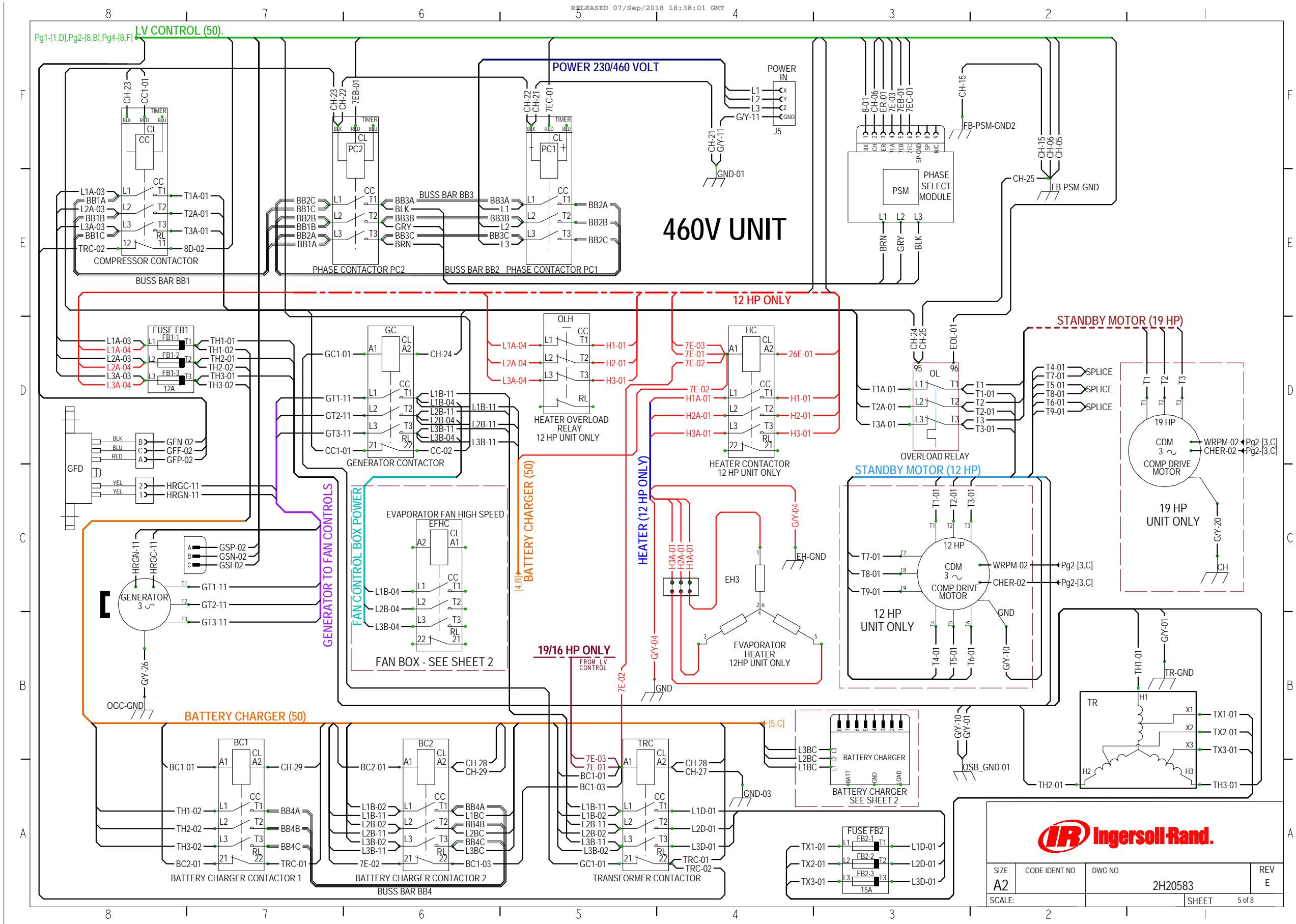


Figure 15. C-600M Wiring Diagram 2H20583 (Sheet 6 of 8)

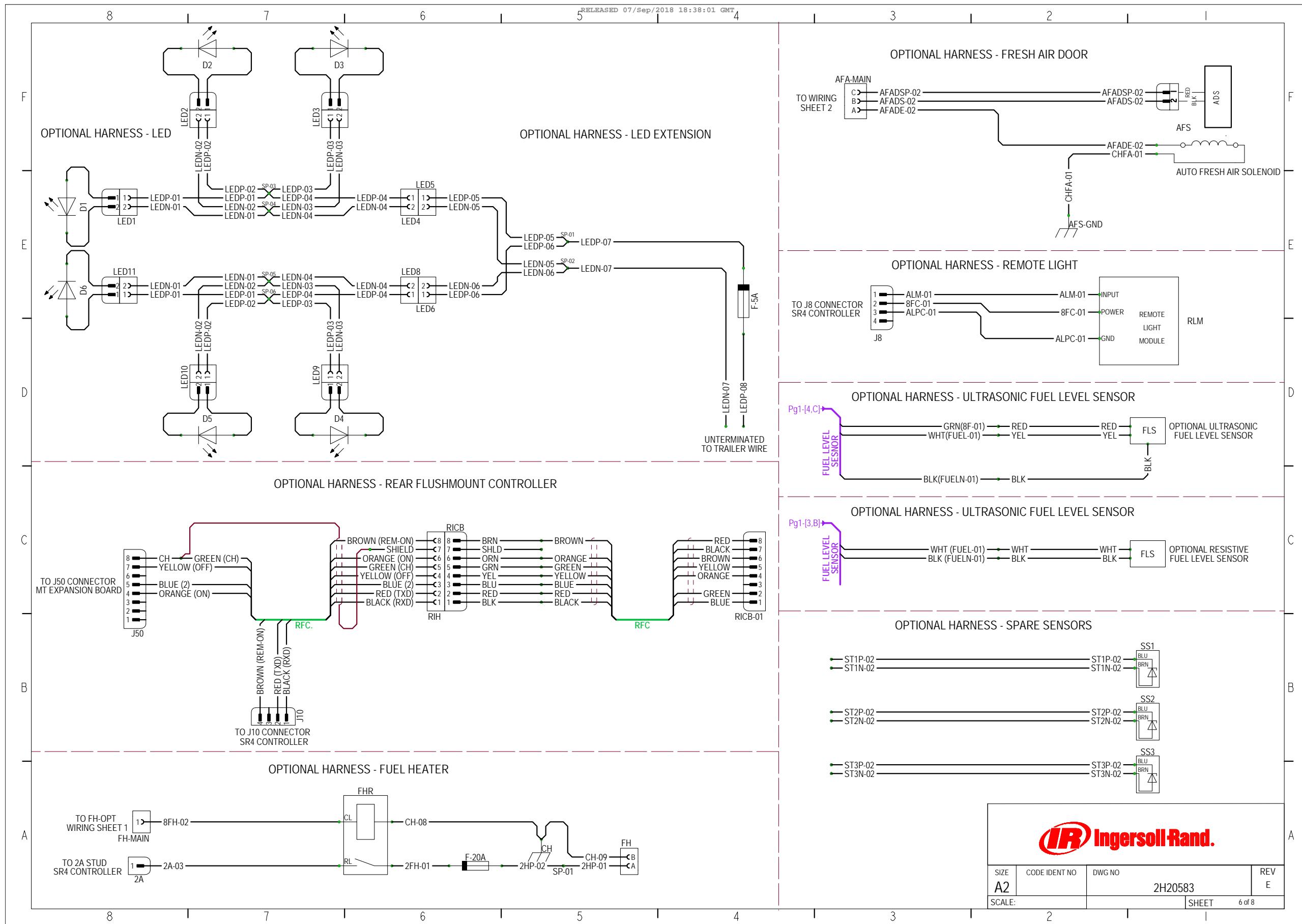
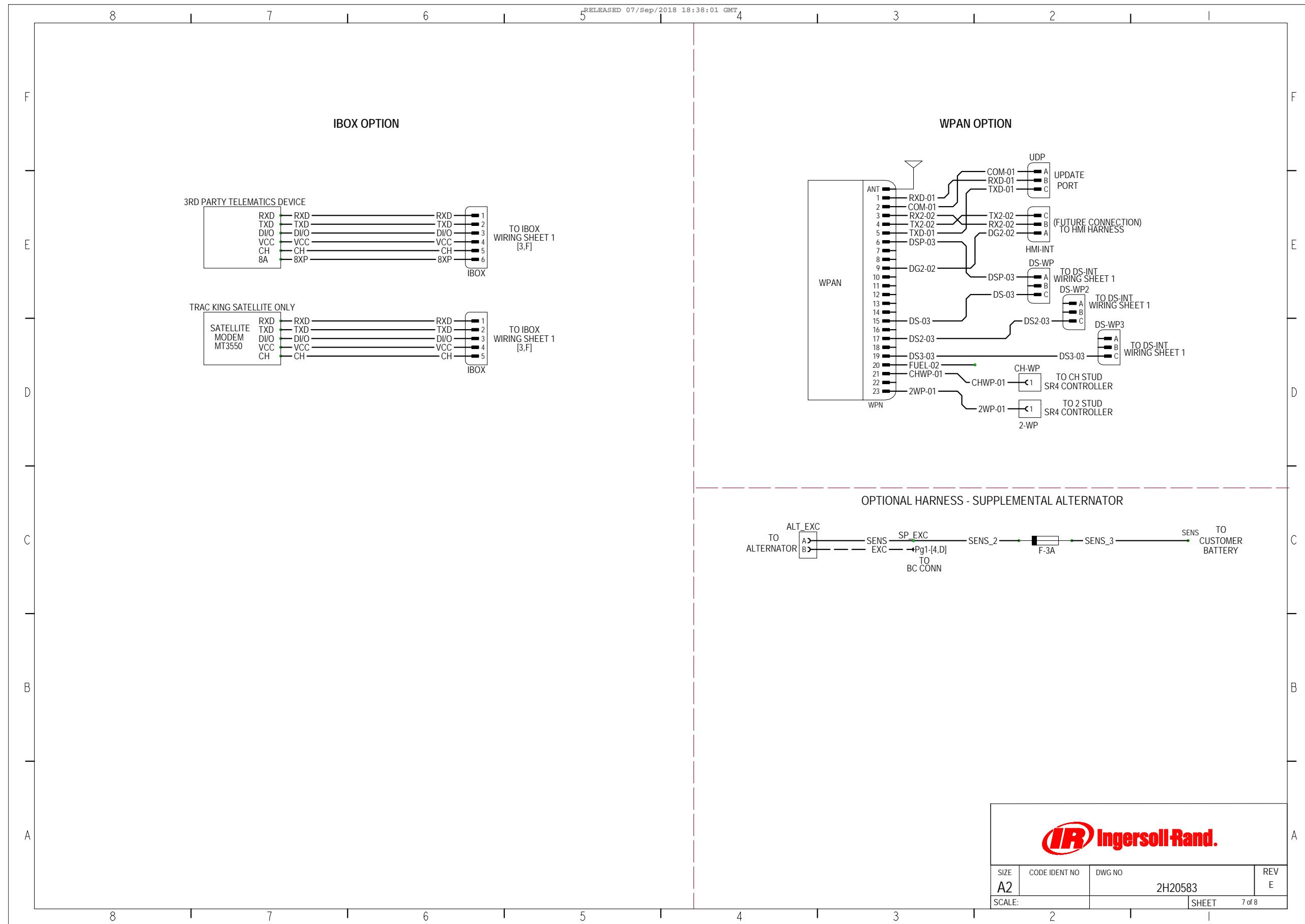
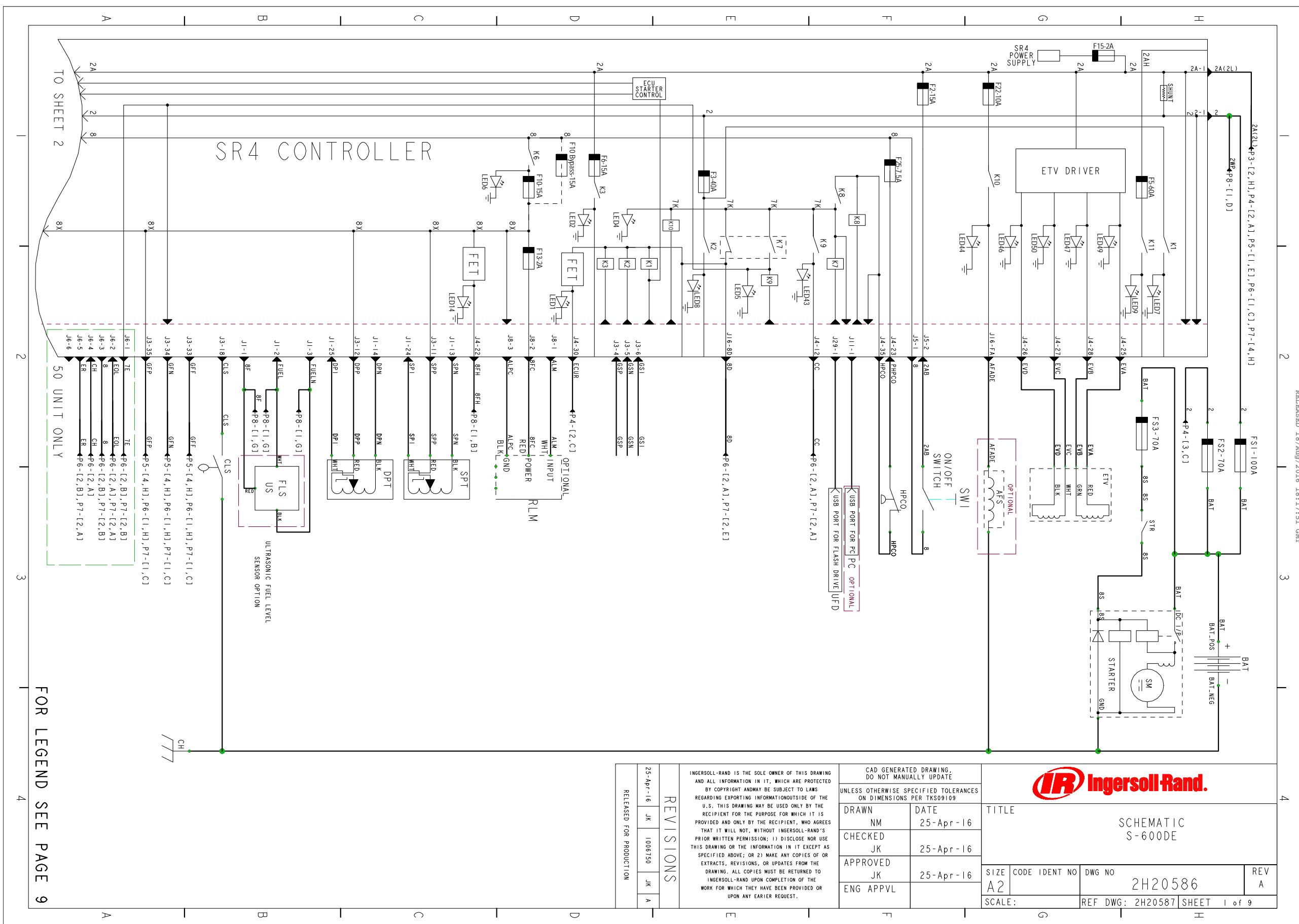


Figure 16. C-600M Wiring Diagram 2H20583 (Sheet 7 of 8)

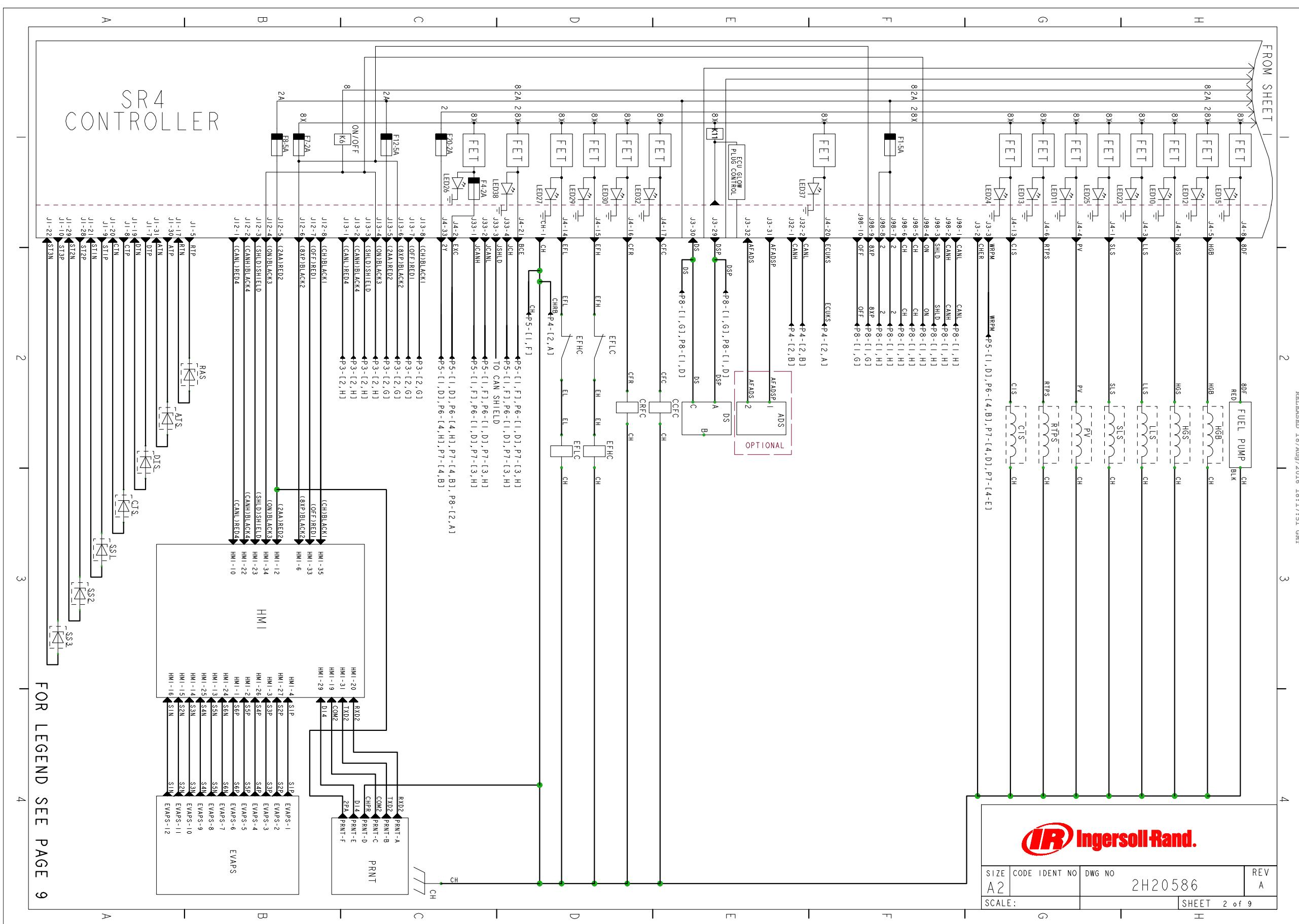


**Figure 17. C-600M Wiring Diagram 2H20583 (Sheet 8 of 8)**

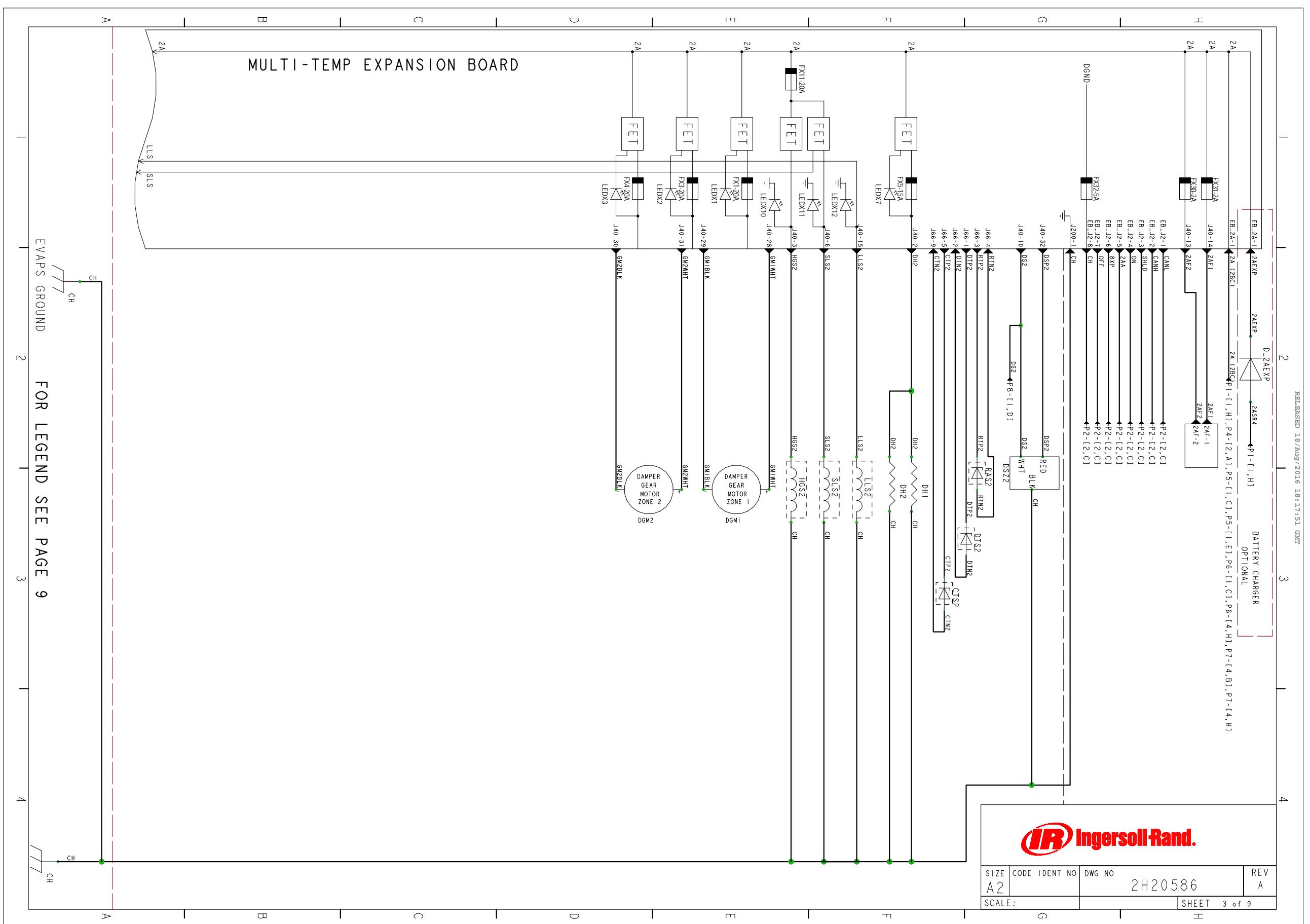
Figure 18. S-600DE Schematic Diagram 2H20586 (Sheet 1 of 9)



**Figure 19.** S-600DE Schematic Diagram 2H20586 (Sheet 2 of 9)



**Figure 20. S-600DE Schematic Diagram 2H20586 (Sheet 3 of 9)**



**Figure 21. S-600DE Schematic Diagram 2H20586 (Sheet 4 of 9)**

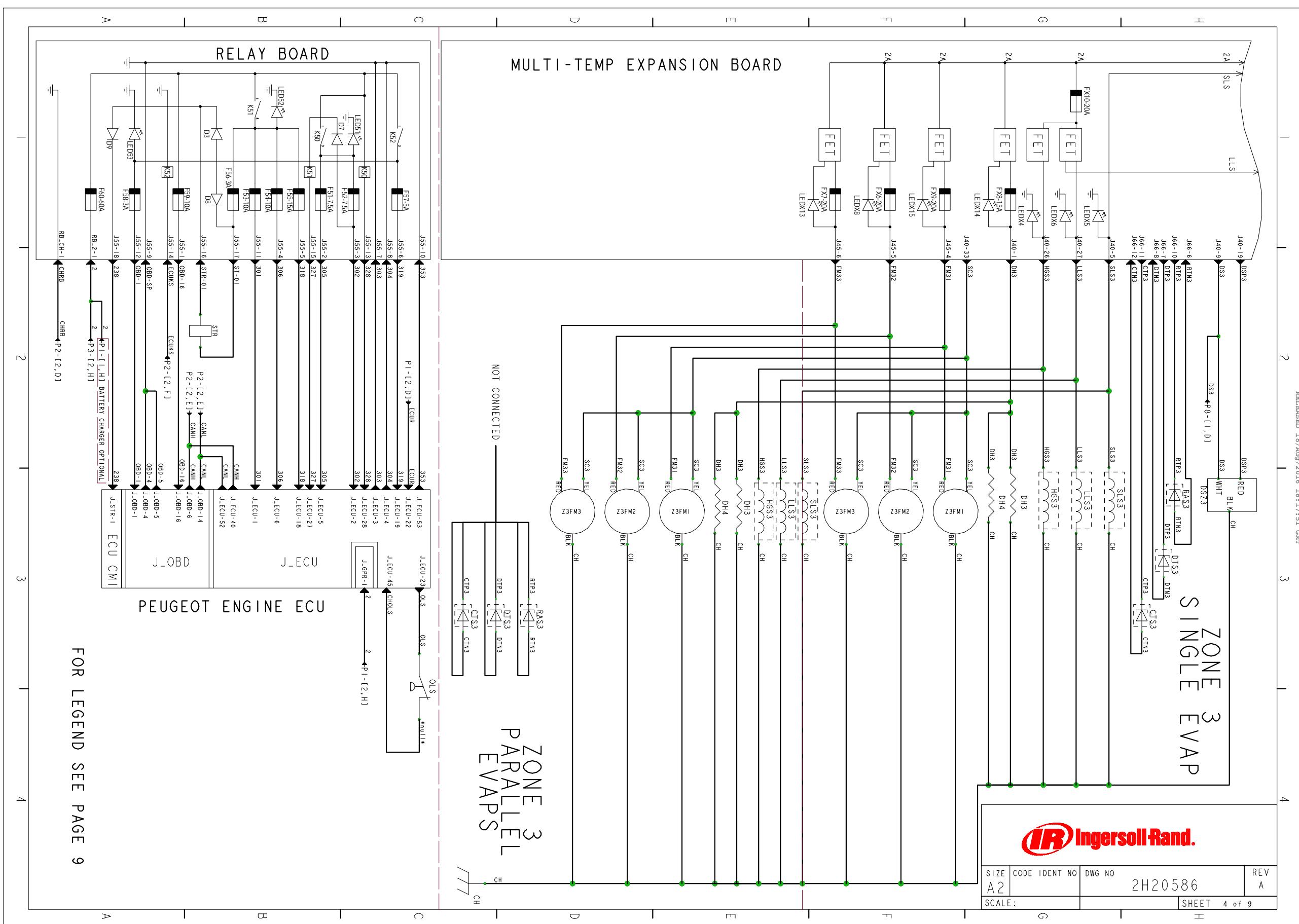


Figure 22. S-600DE Schematic Diagram 2H20586 (Sheet 5 of 9)

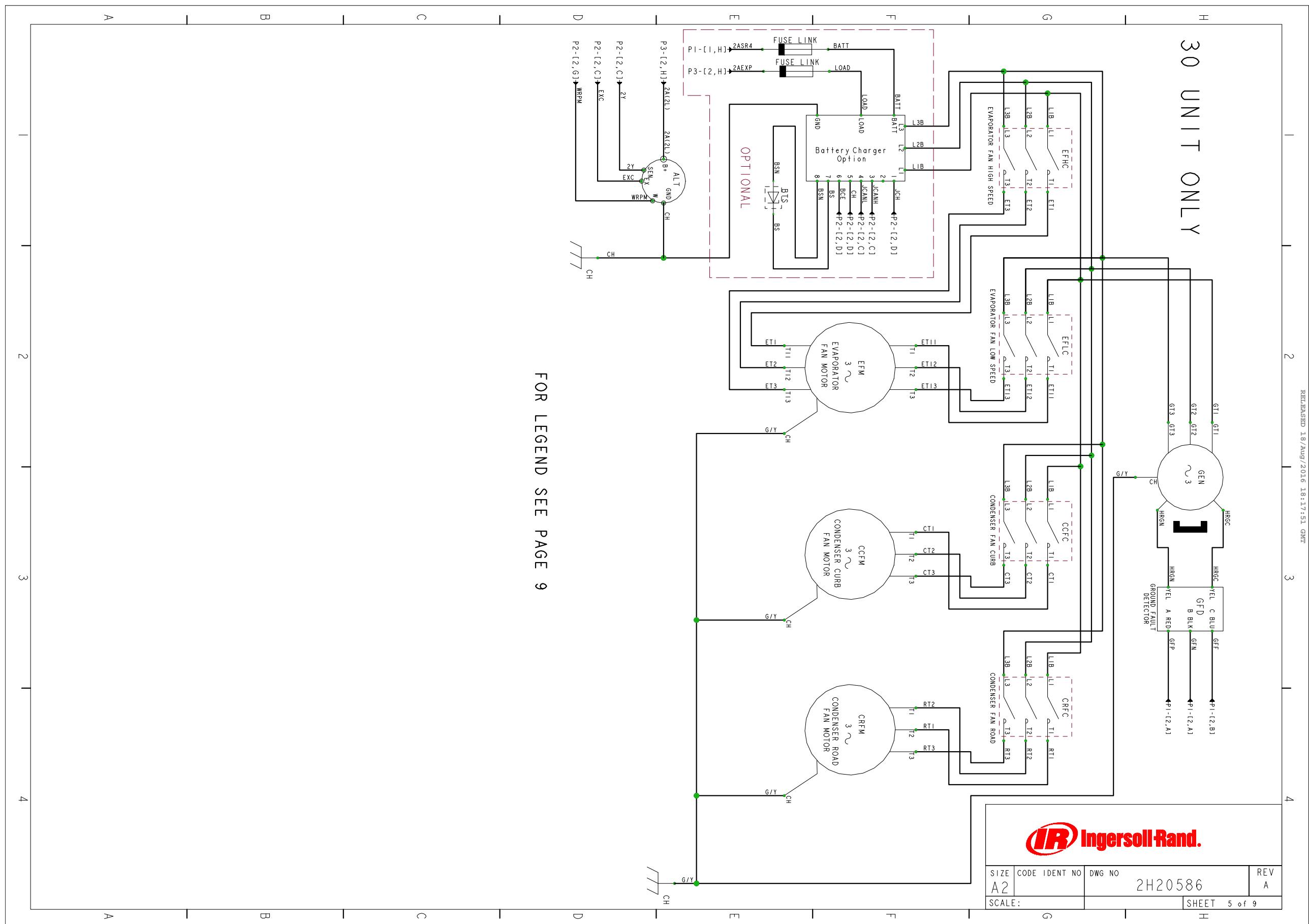
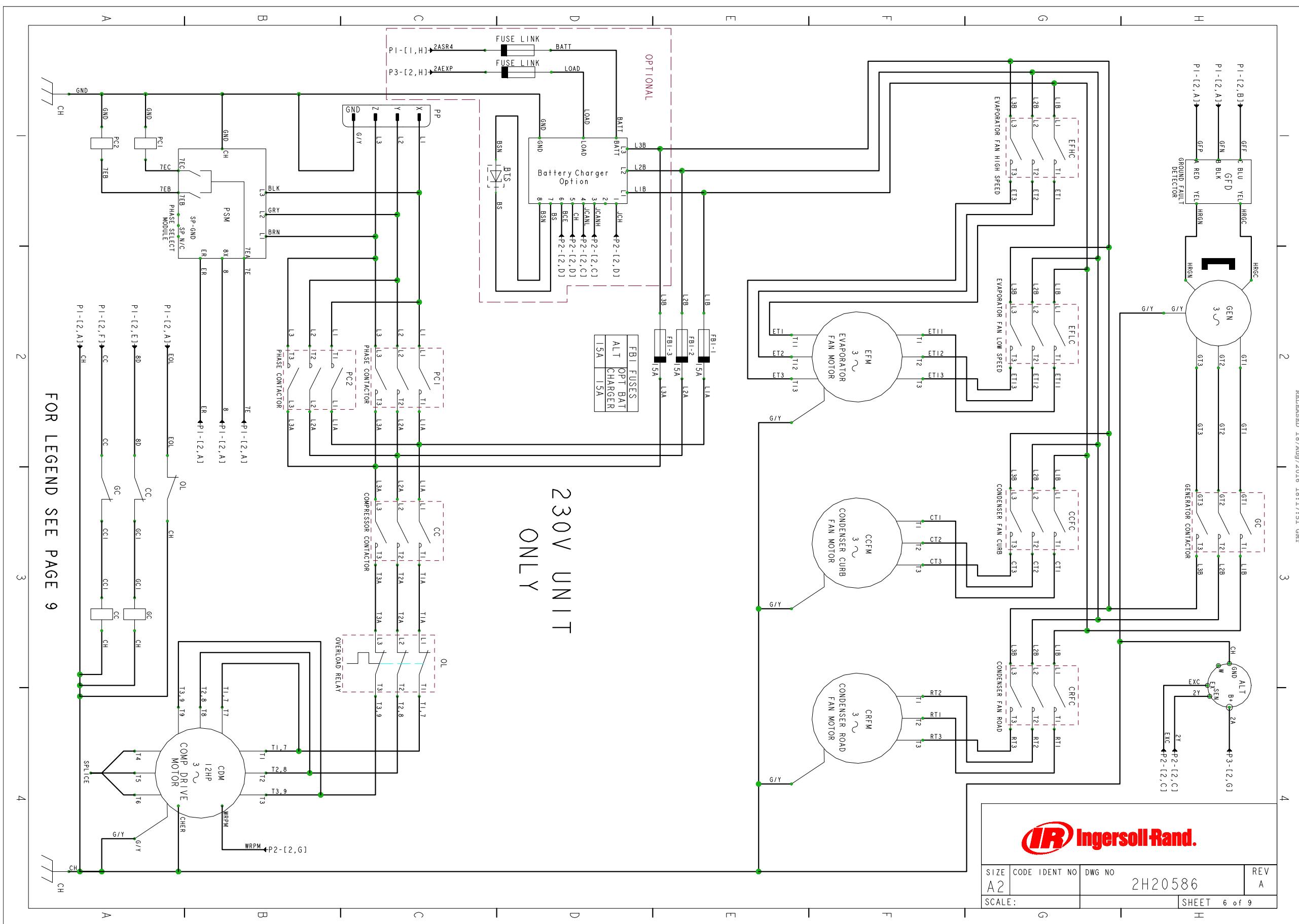


Figure 23. S-600DE Schematic Diagram 2H20586 (Sheet 6 of 9)



**Figure 24. S-600DE Schematic Diagram 2H20586 (Sheet 7 of 9)**

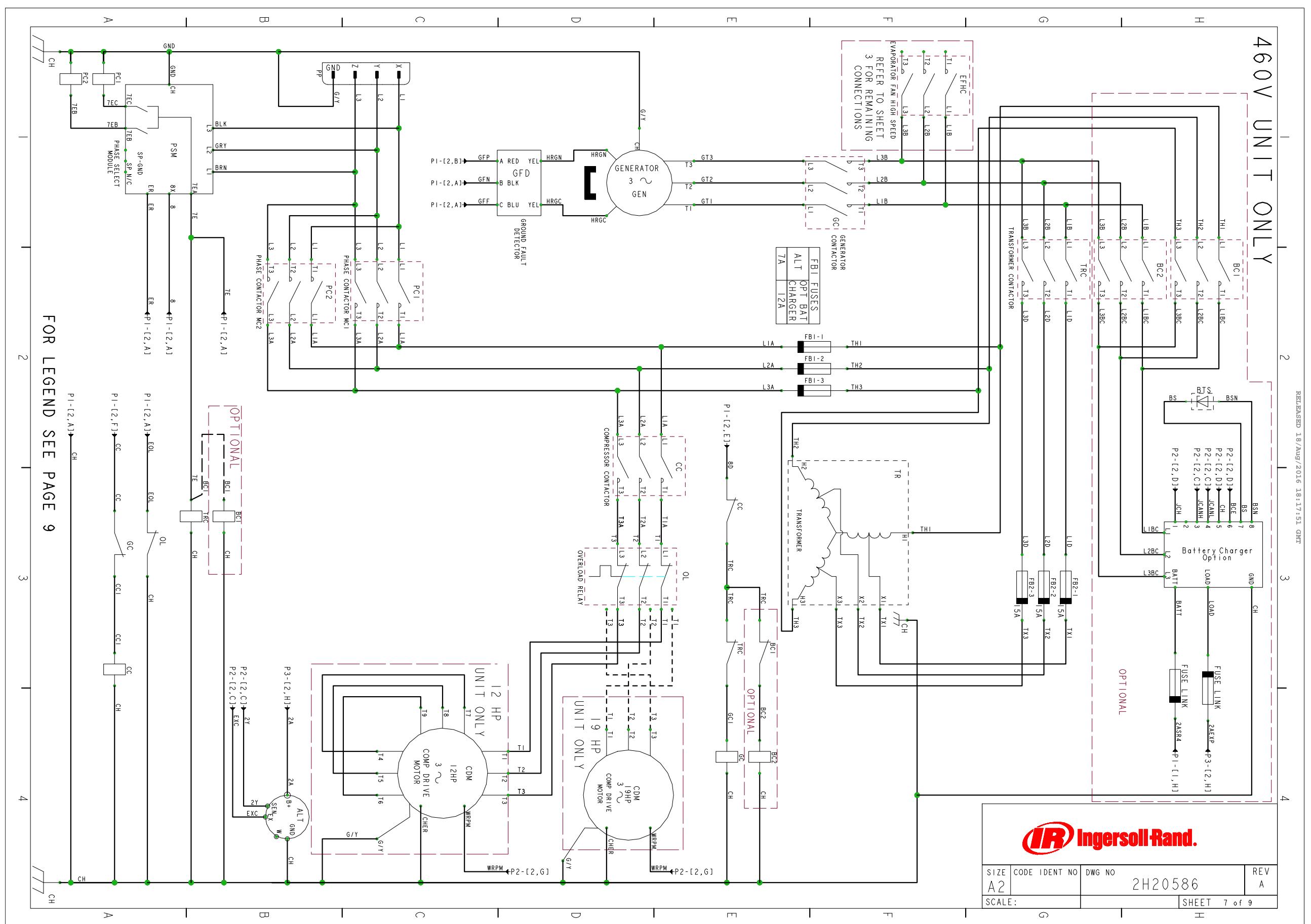


Figure 25. S-600DE Schematic Diagram 2H20586 (Sheet 8 of 9)

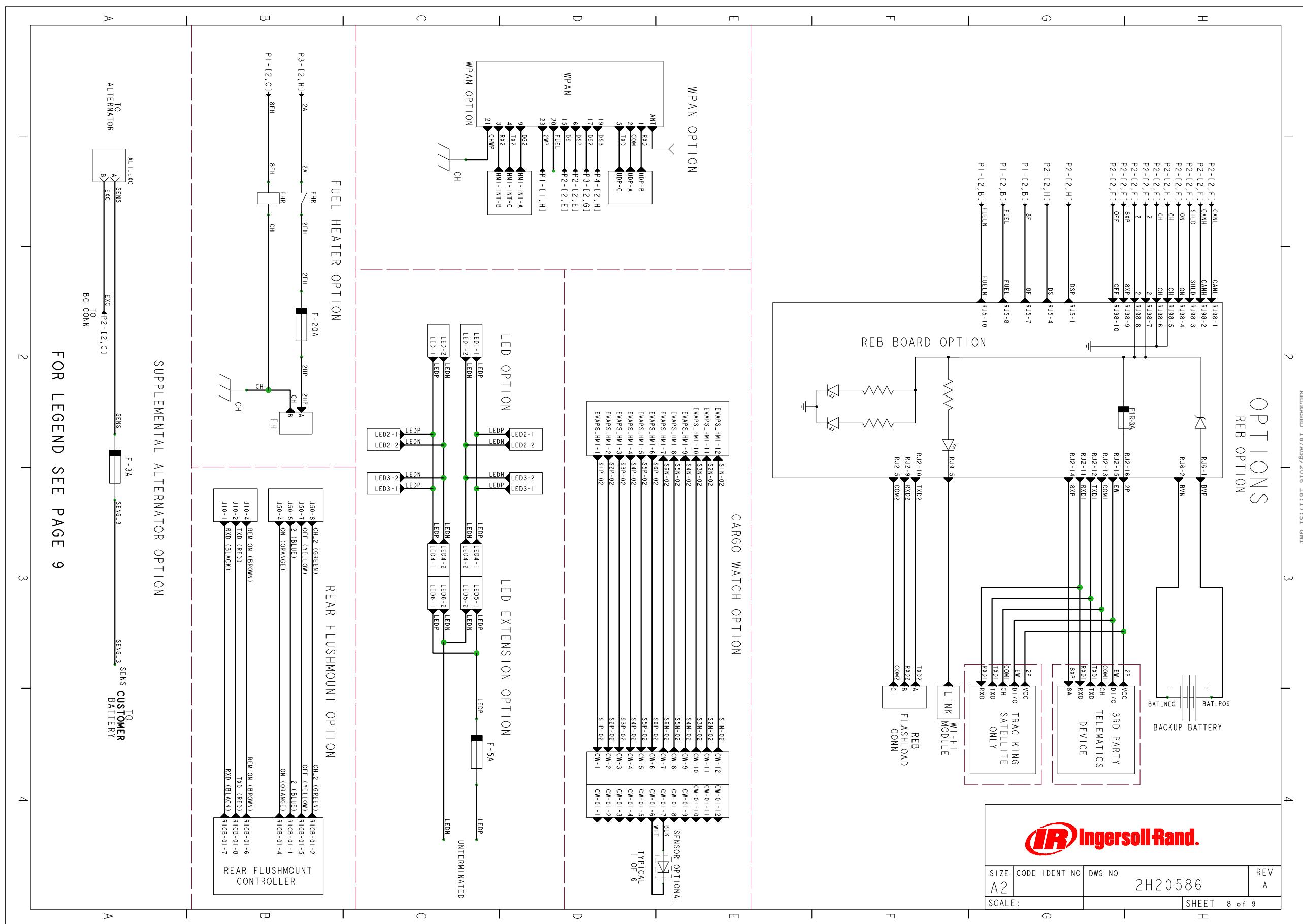


Figure 26. S-600DE Schematic Diagram 2H20586 (Sheet 9 of 9)

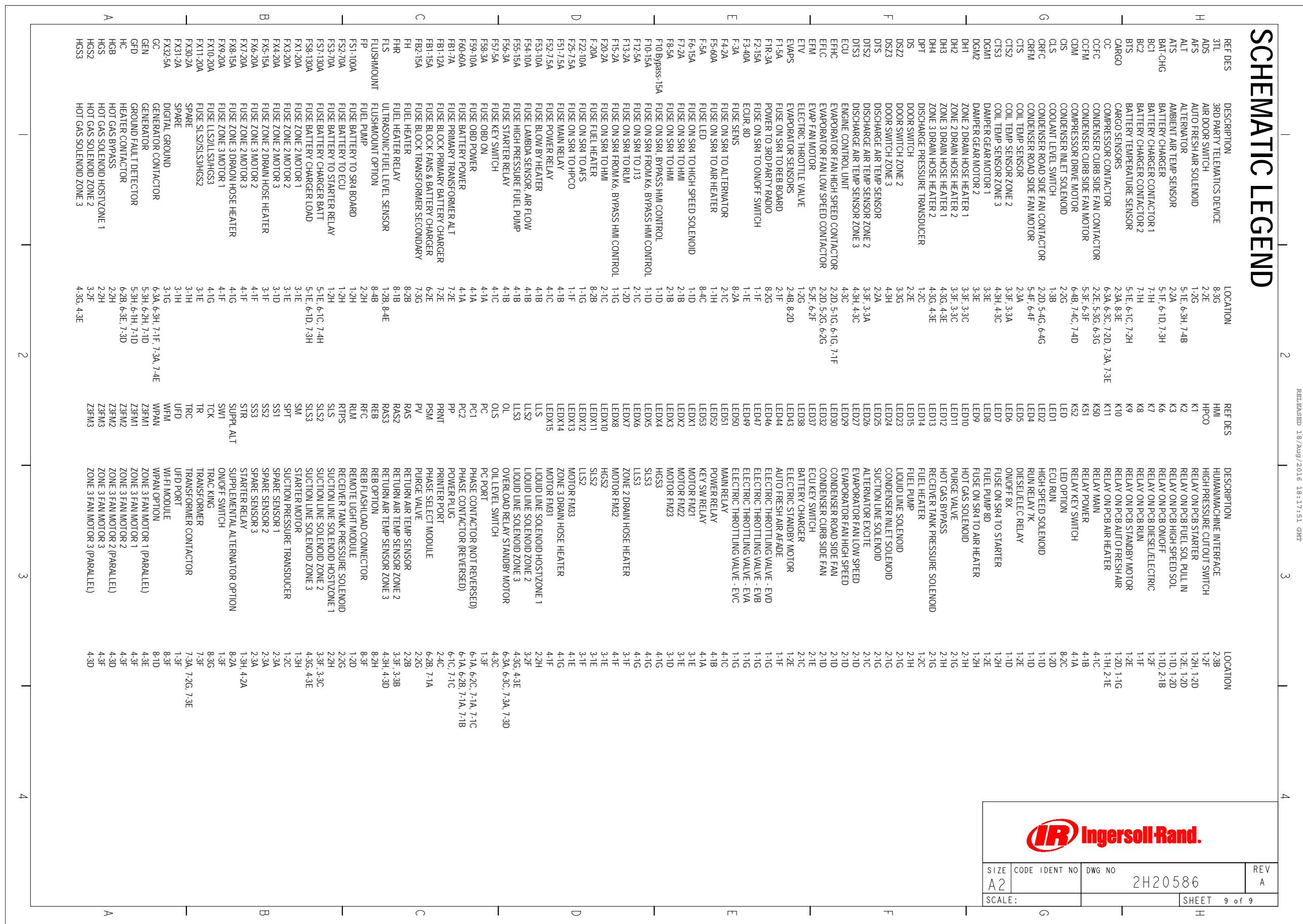


Figure 27. S-600DE Wiring Diagram 2H20587 (Sheet 1 of 9)

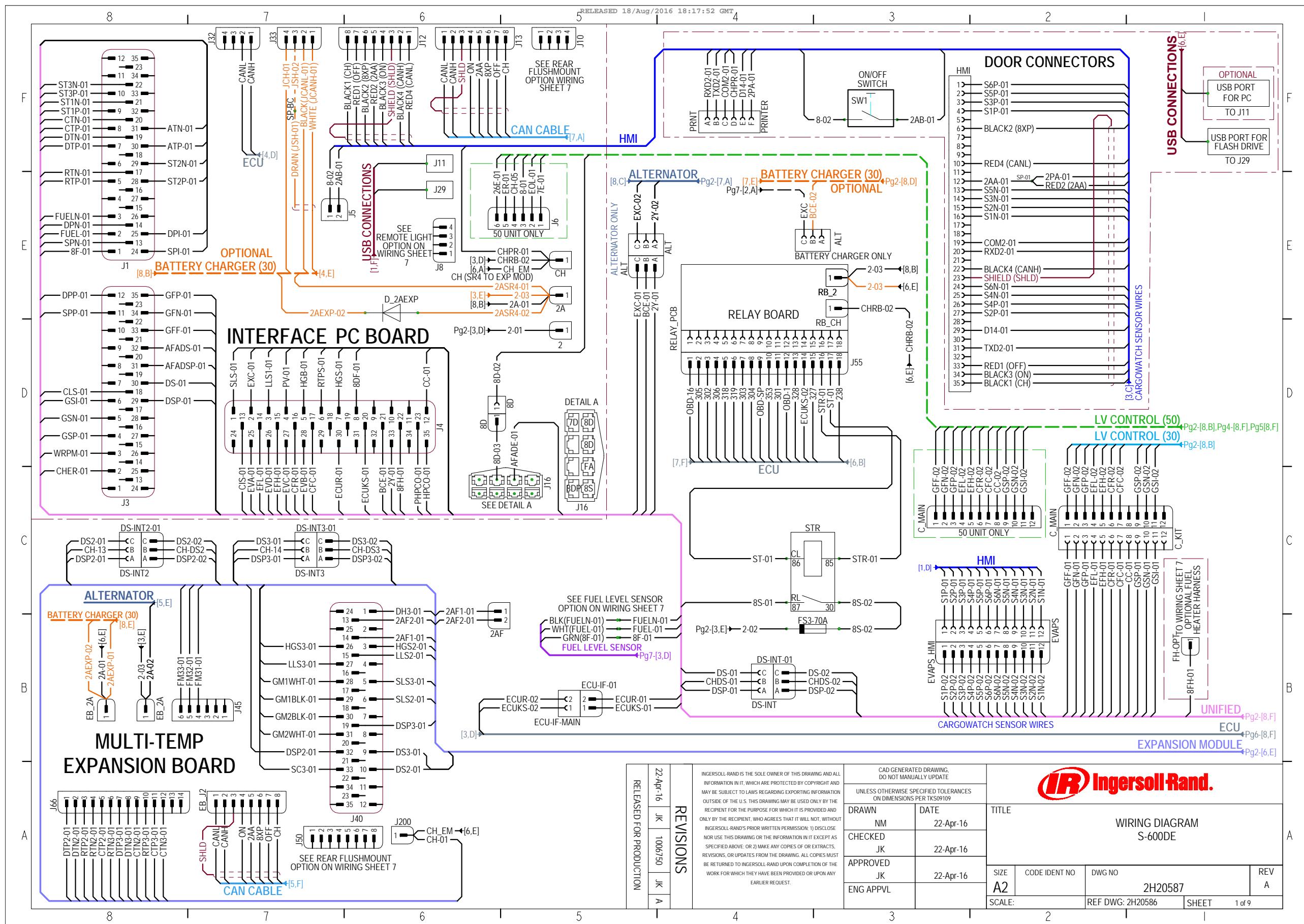


Figure 28. S-600DE Wiring Diagram 2H20587 (Sheet 2 of 9)

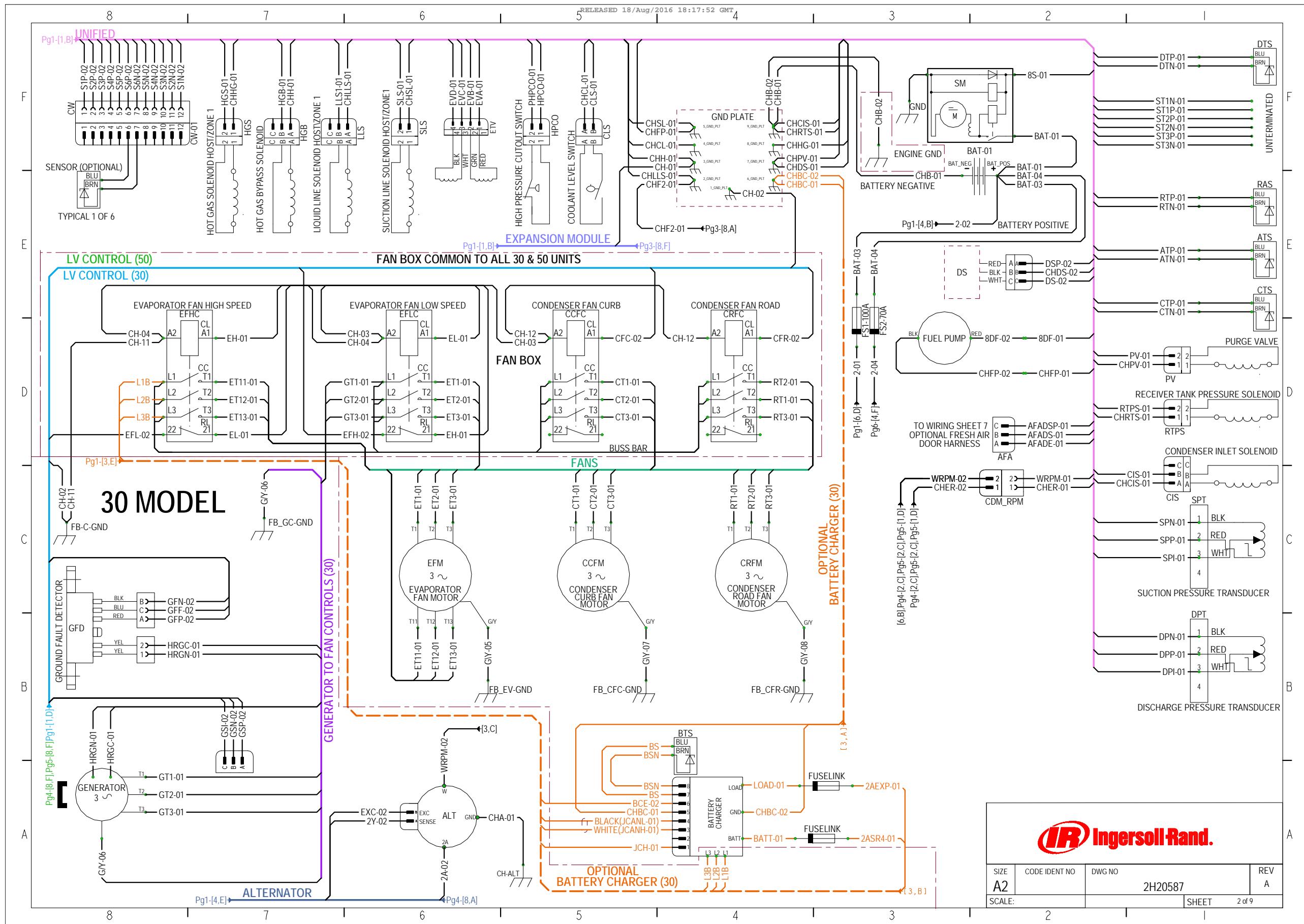


Figure 29. S-600DE Wiring Diagram 2H20587 (Sheet 3 of 9)

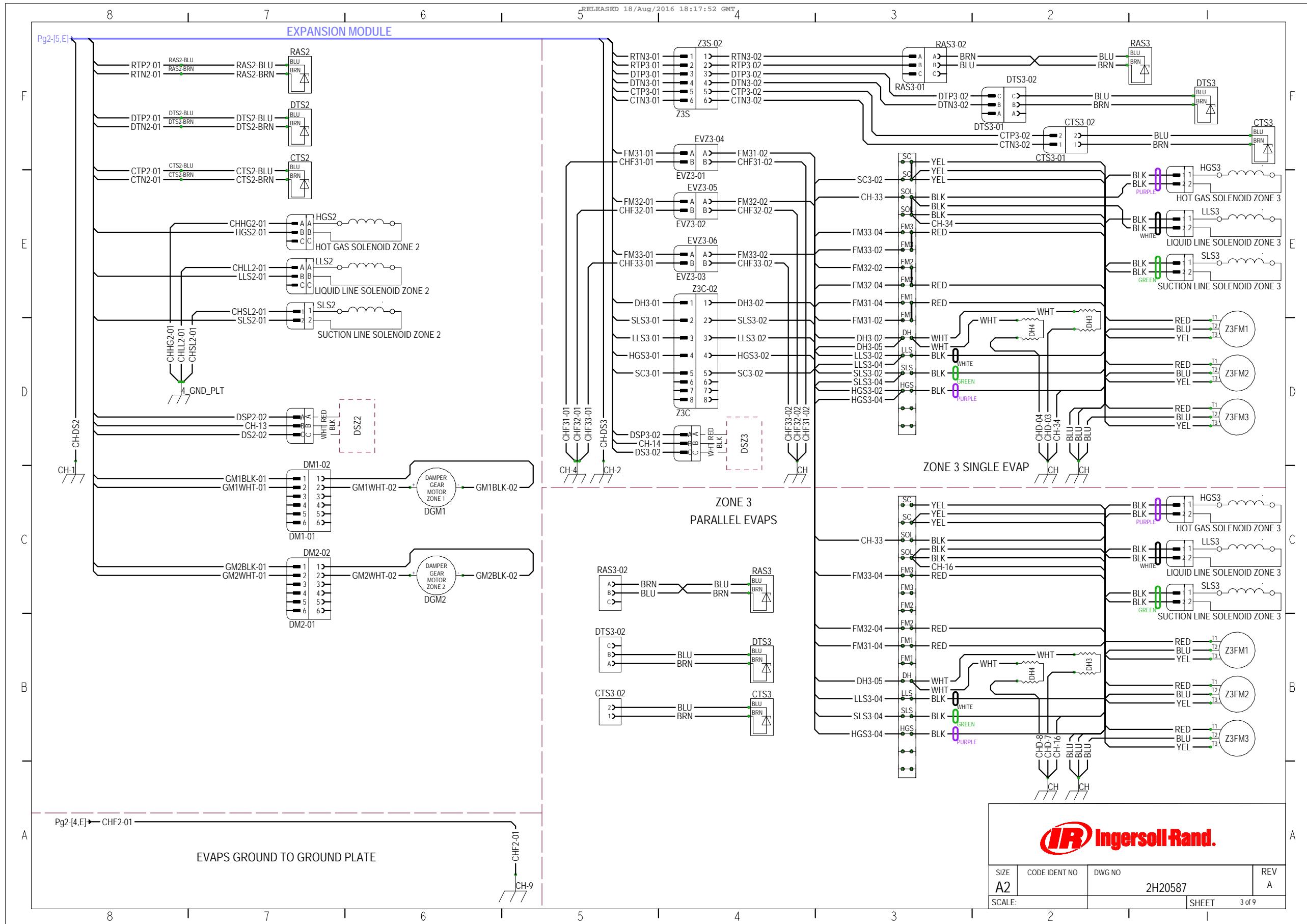


Figure 30. S-600DE Wiring Diagram 2H20587 (Sheet 4 of 9)

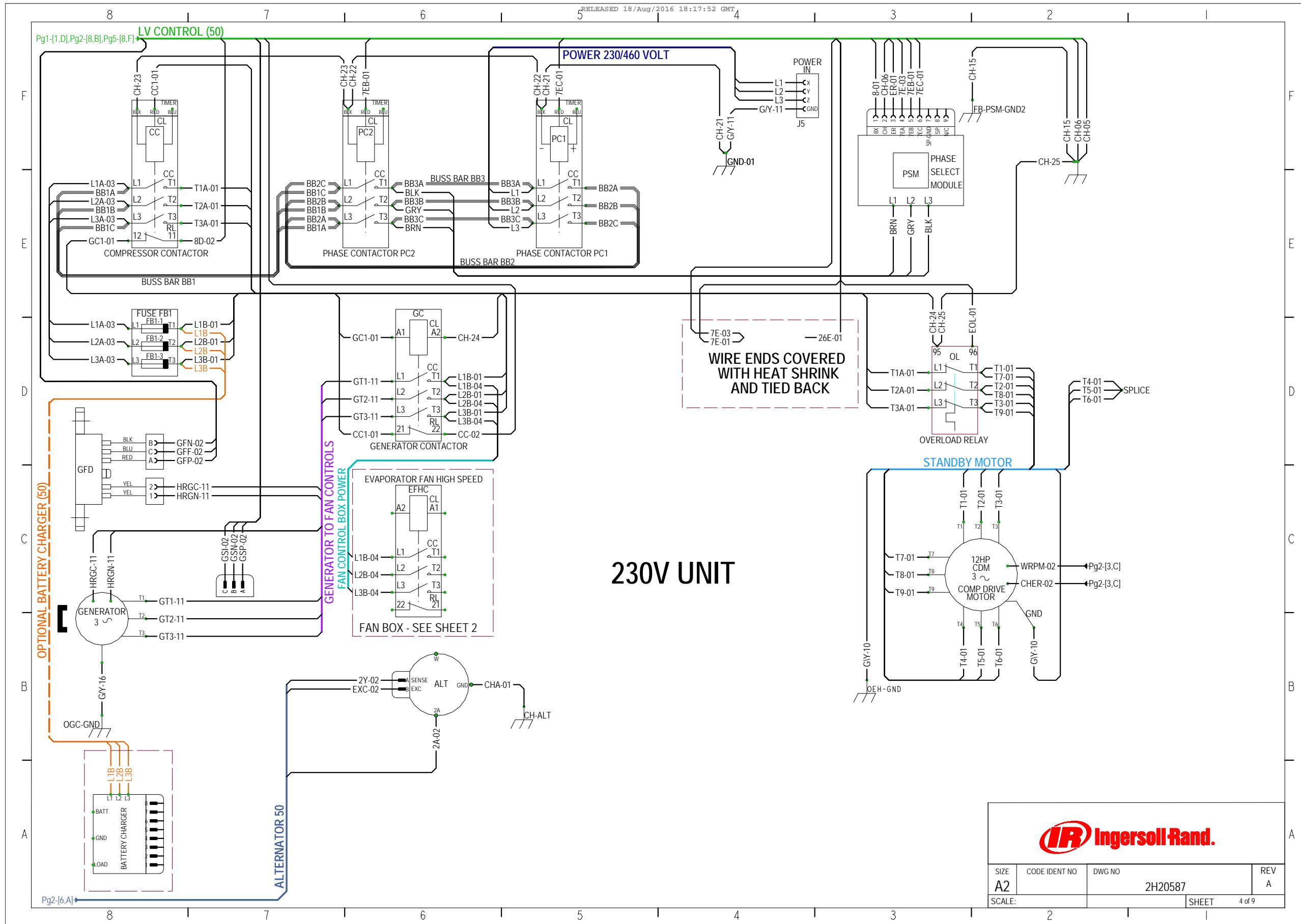


Figure 31. S-600DE Wiring Diagram 2H20587 (Sheet 5 of 9)

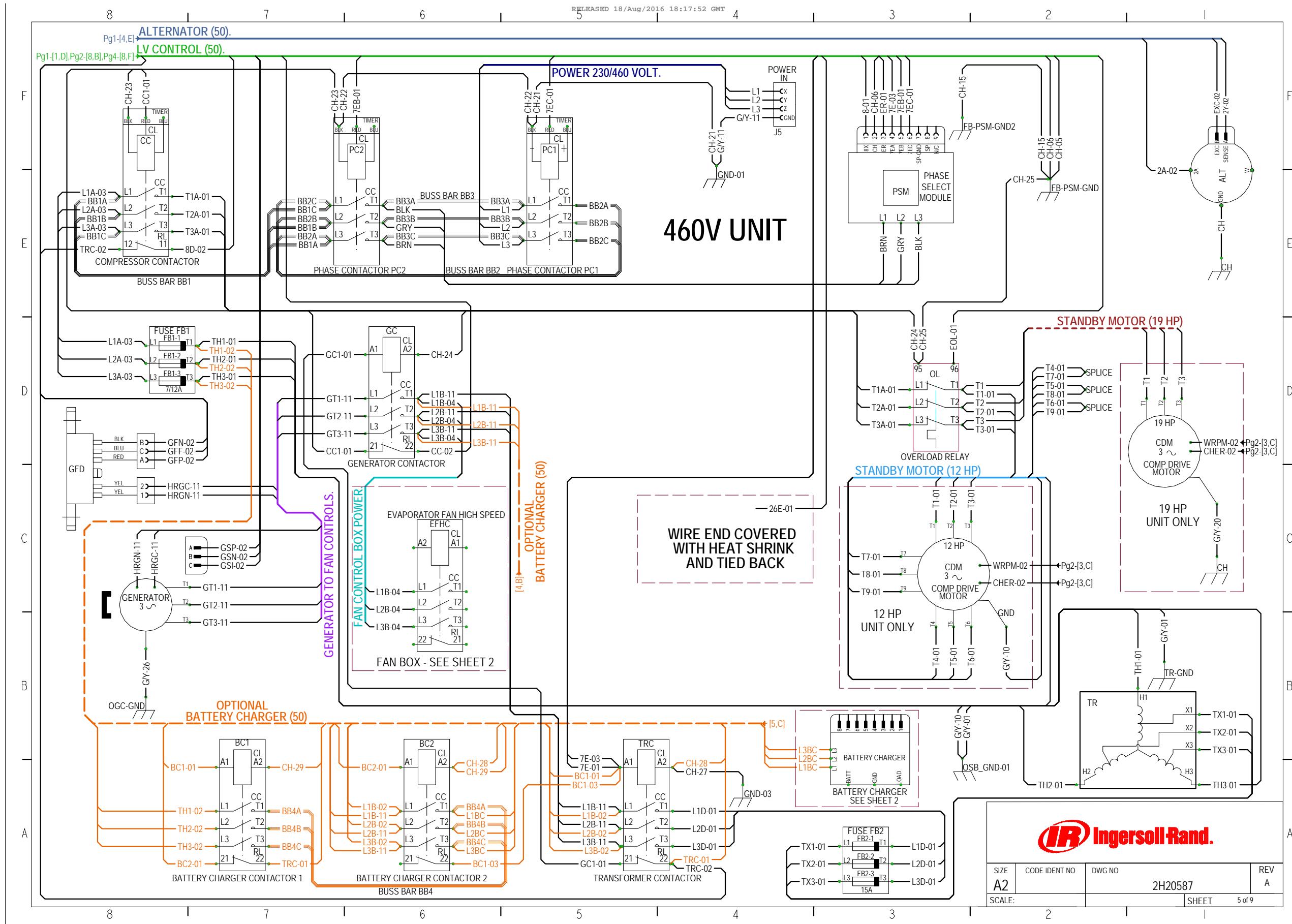


Figure 32. S-600DE Wiring Diagram 2H20587 (Sheet 6 of 9)

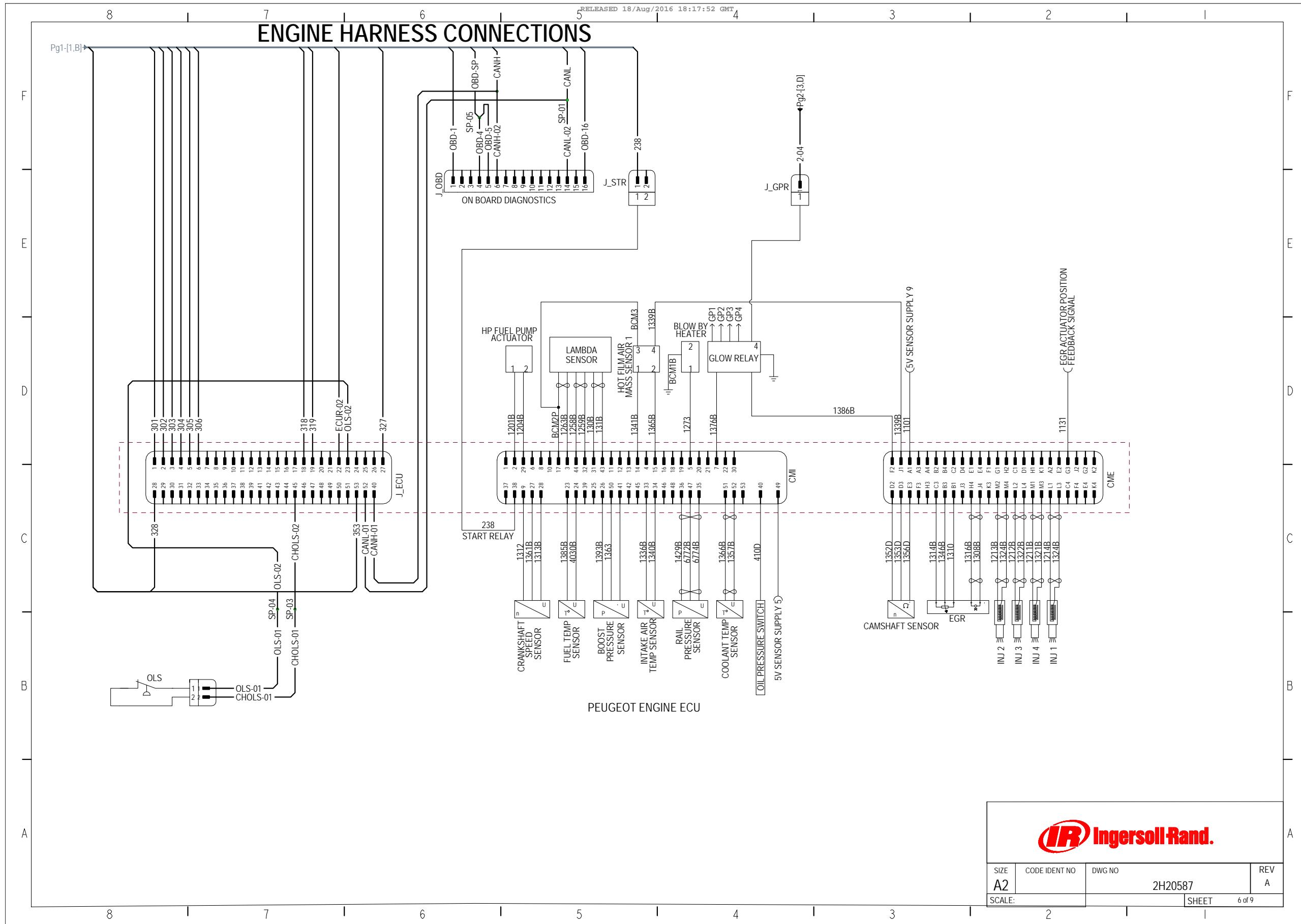


Figure 33. S-600DE Wiring Diagram 2H20587 (Sheet 7 of 9)

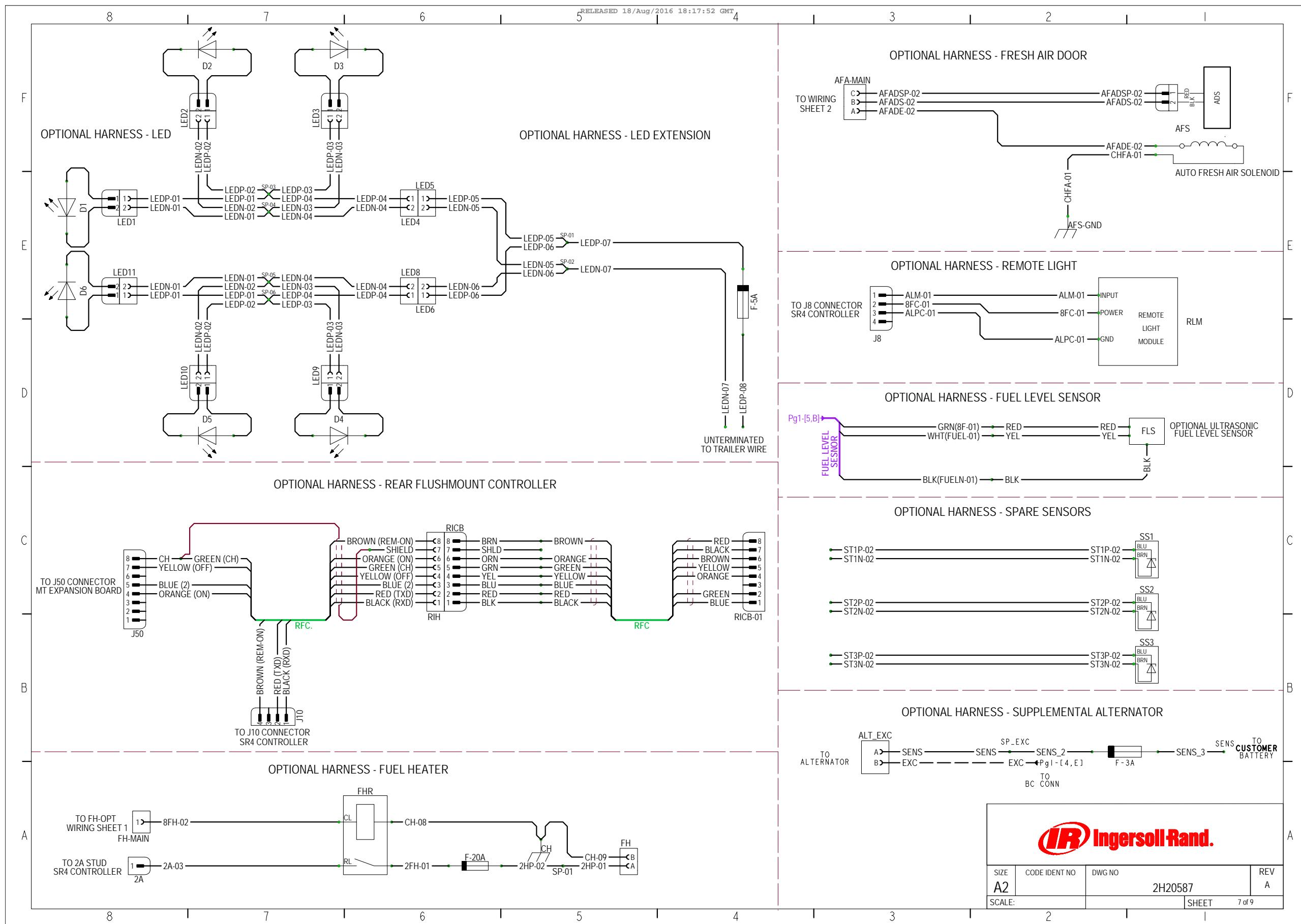
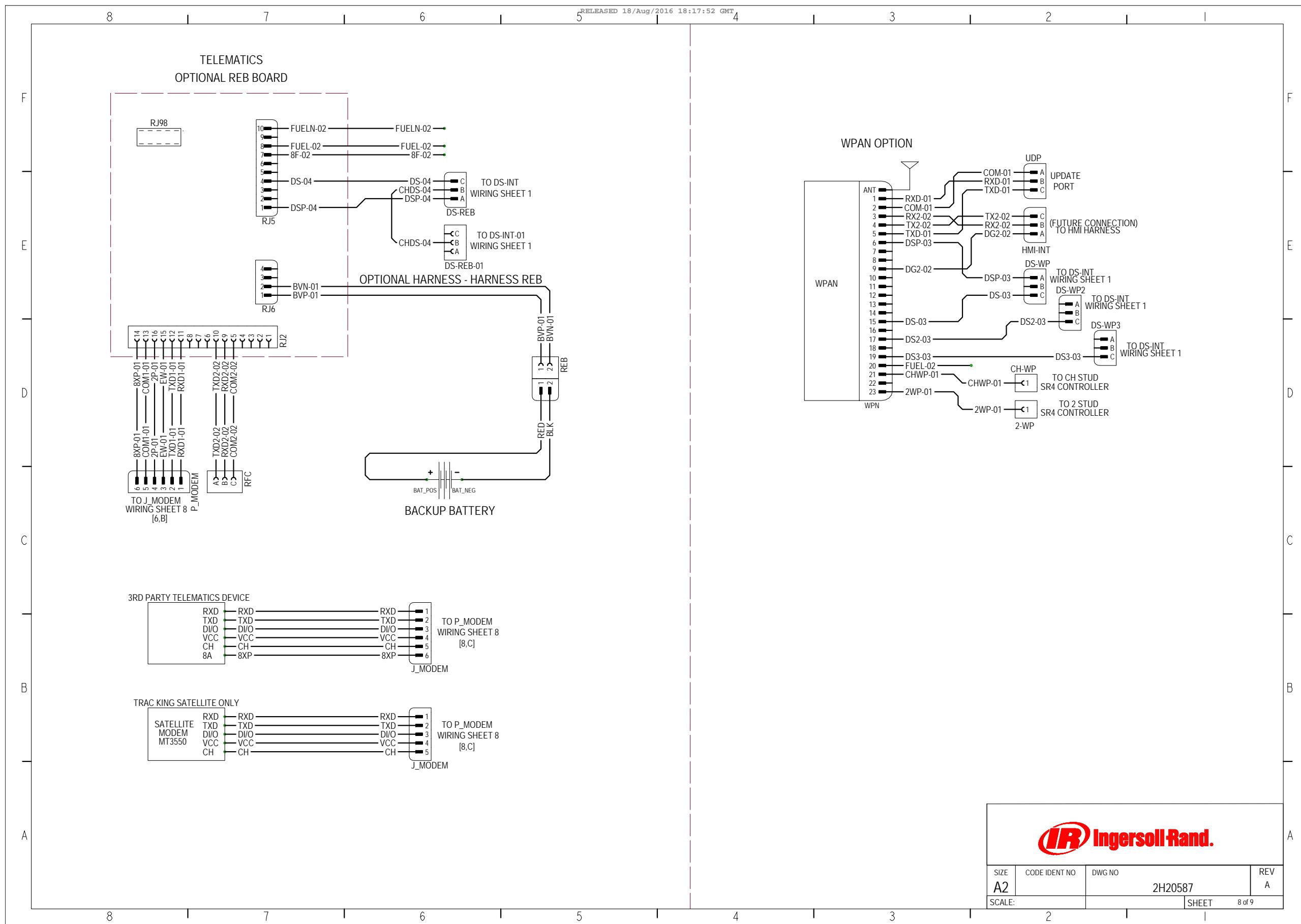


Figure 34. S-600DE Wiring Diagram 2H20587 (Sheet 8 of 9)



**Figure 35. S-600DE Wiring Diagram 2H20587 (Sheet 9 of 9)**

Figure 36. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 1 of 9)

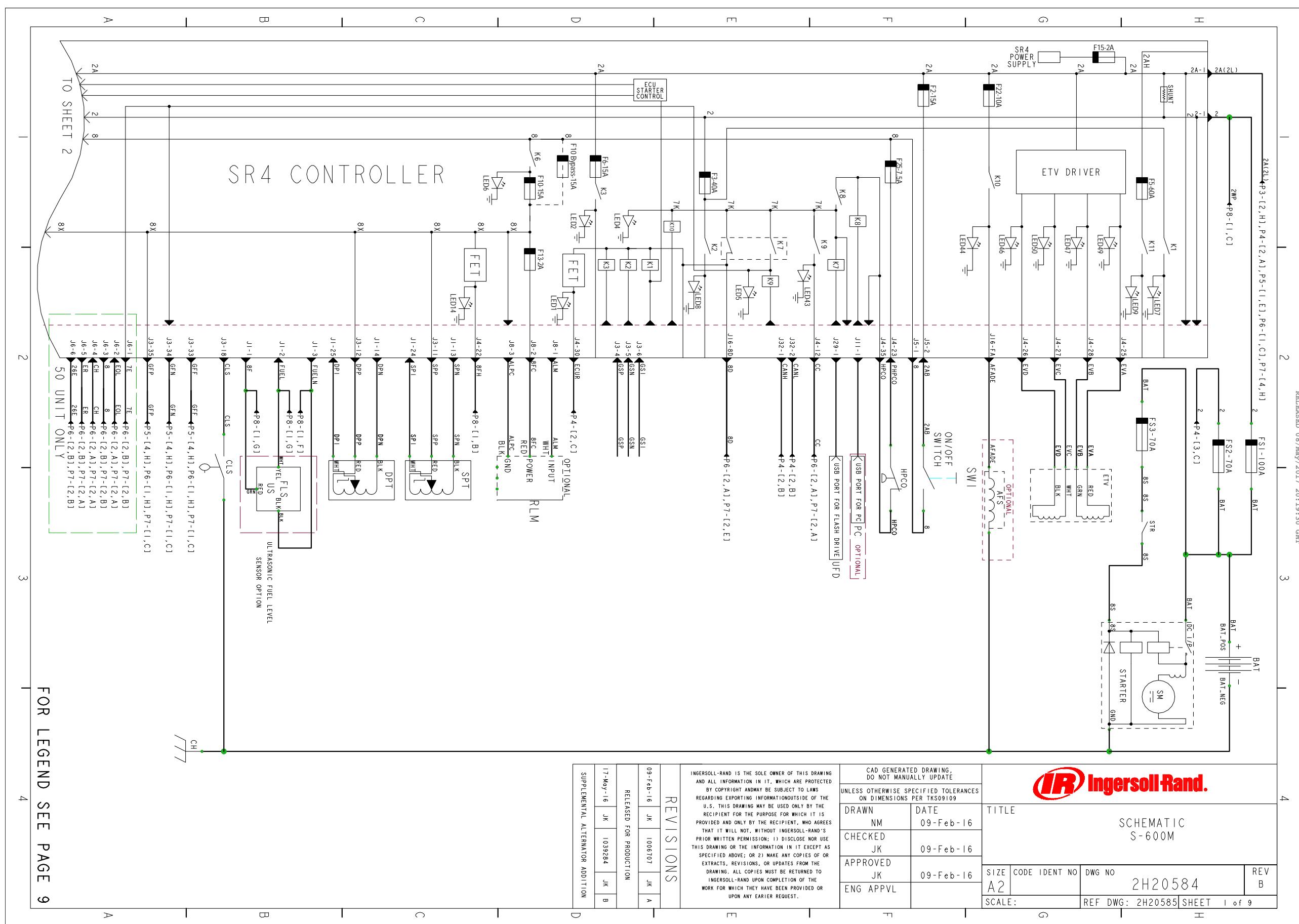


Figure 37. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 2 of 9)

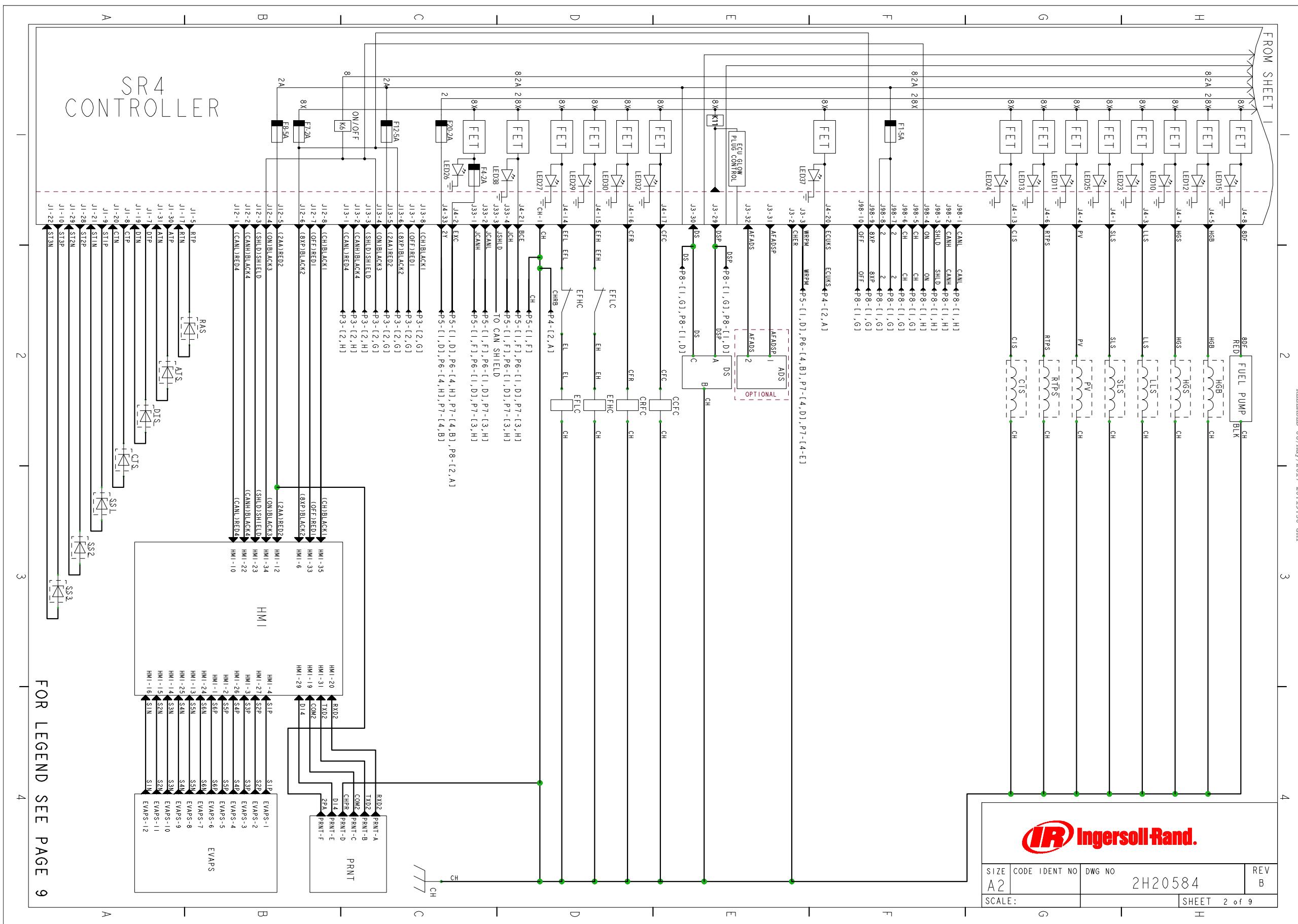


Figure 38. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 3 of 9)

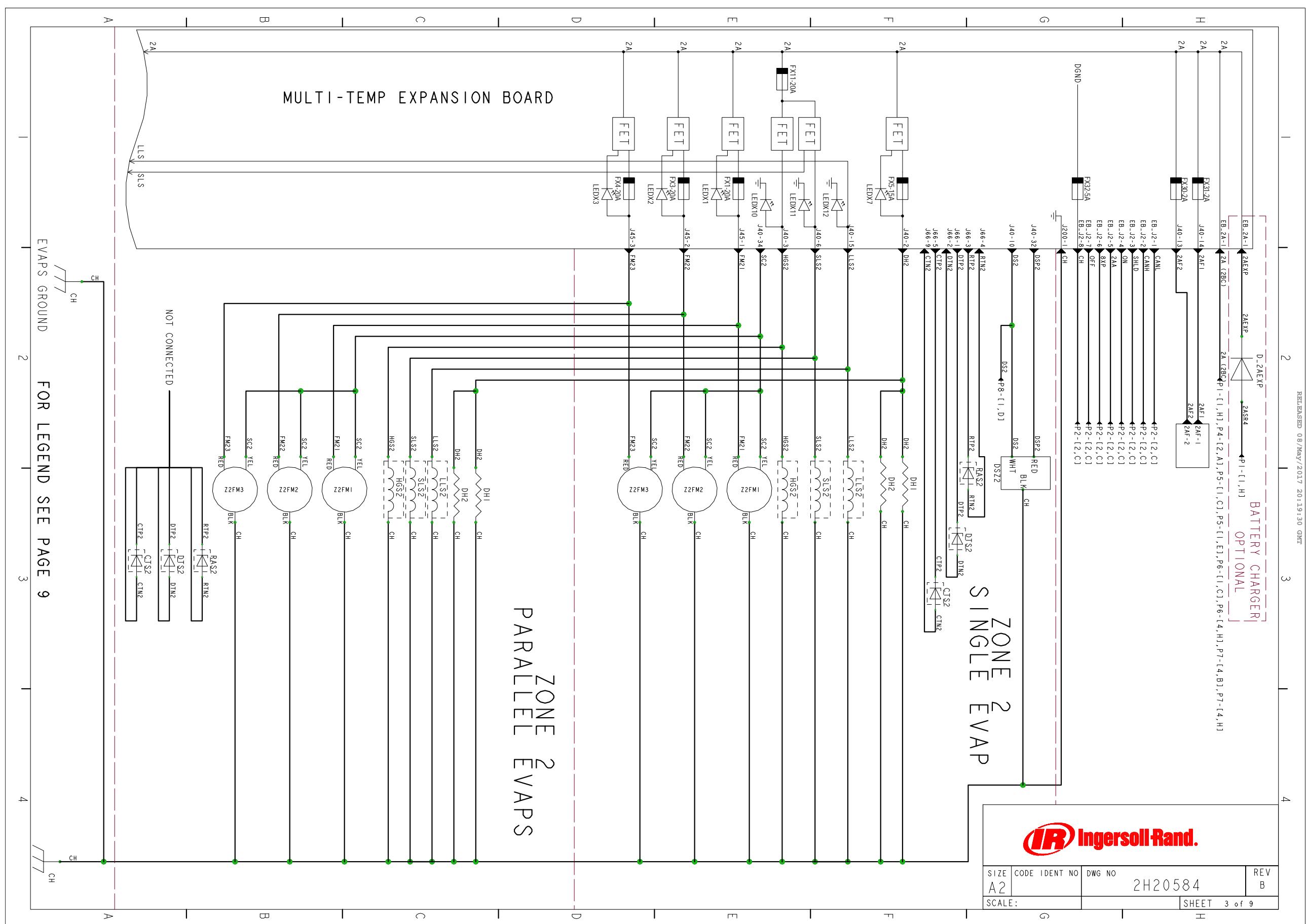


Figure 39. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 4 of 9)

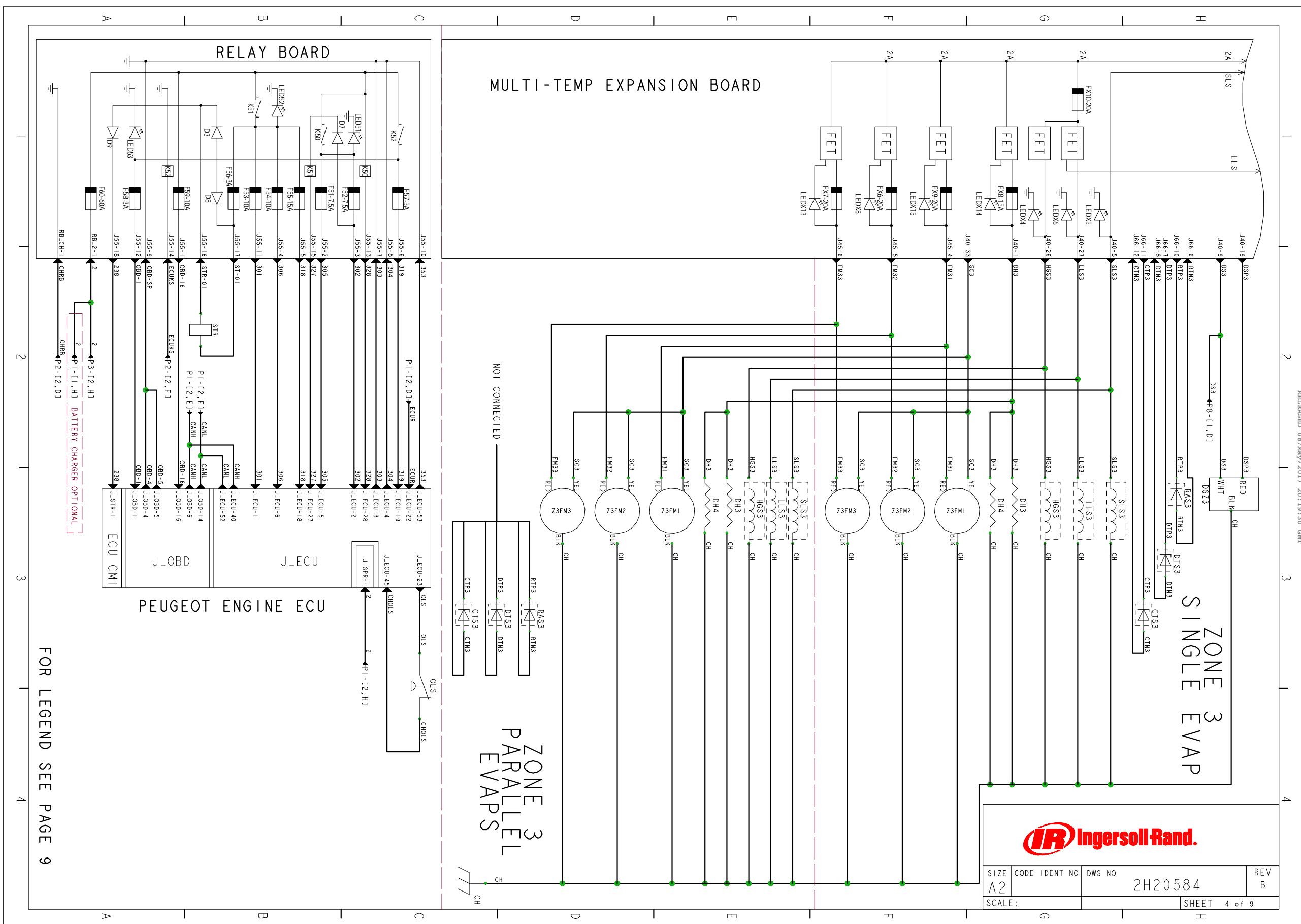


Figure 40. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 5 of 9)

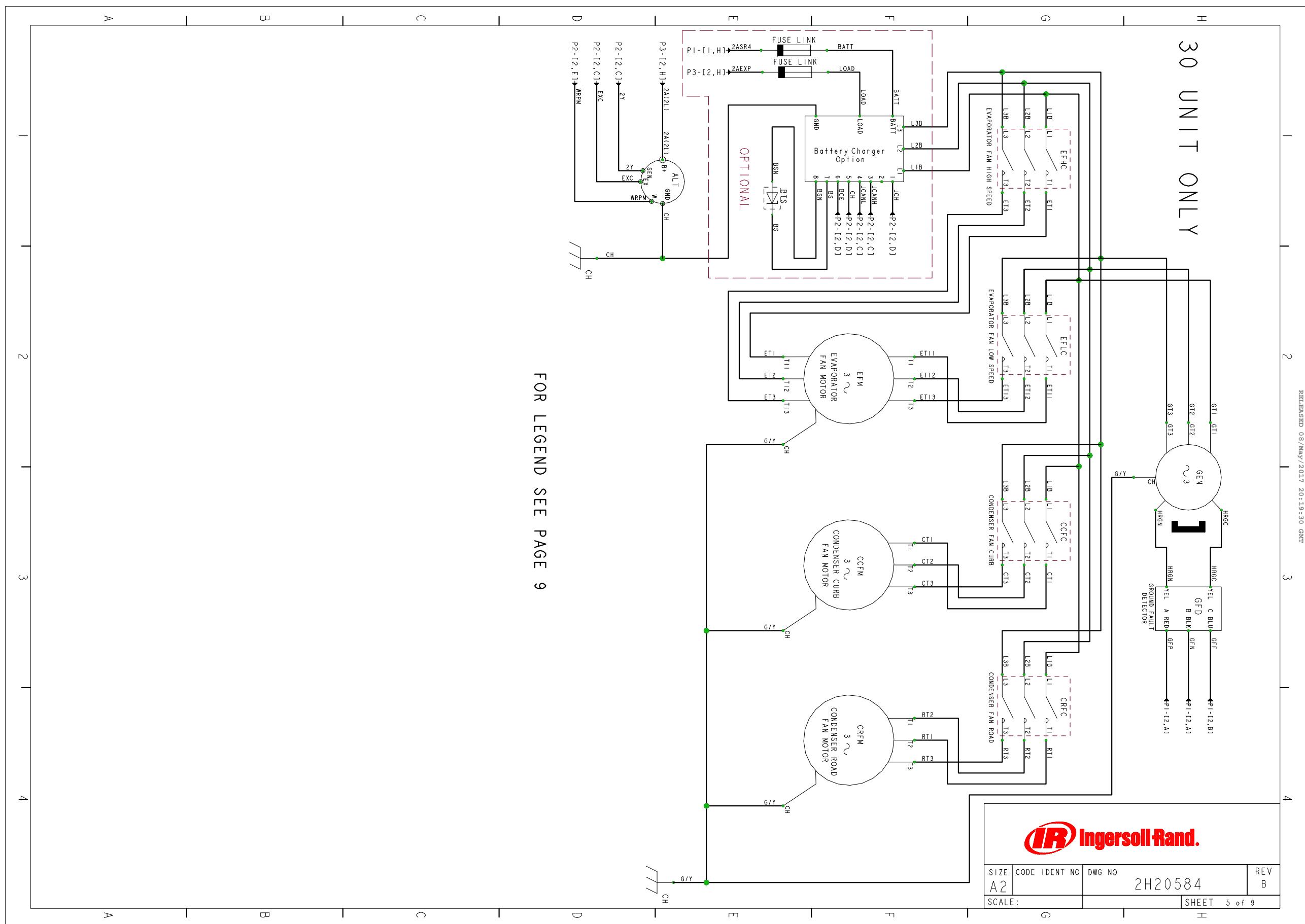


Figure 41. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 6 of 9)

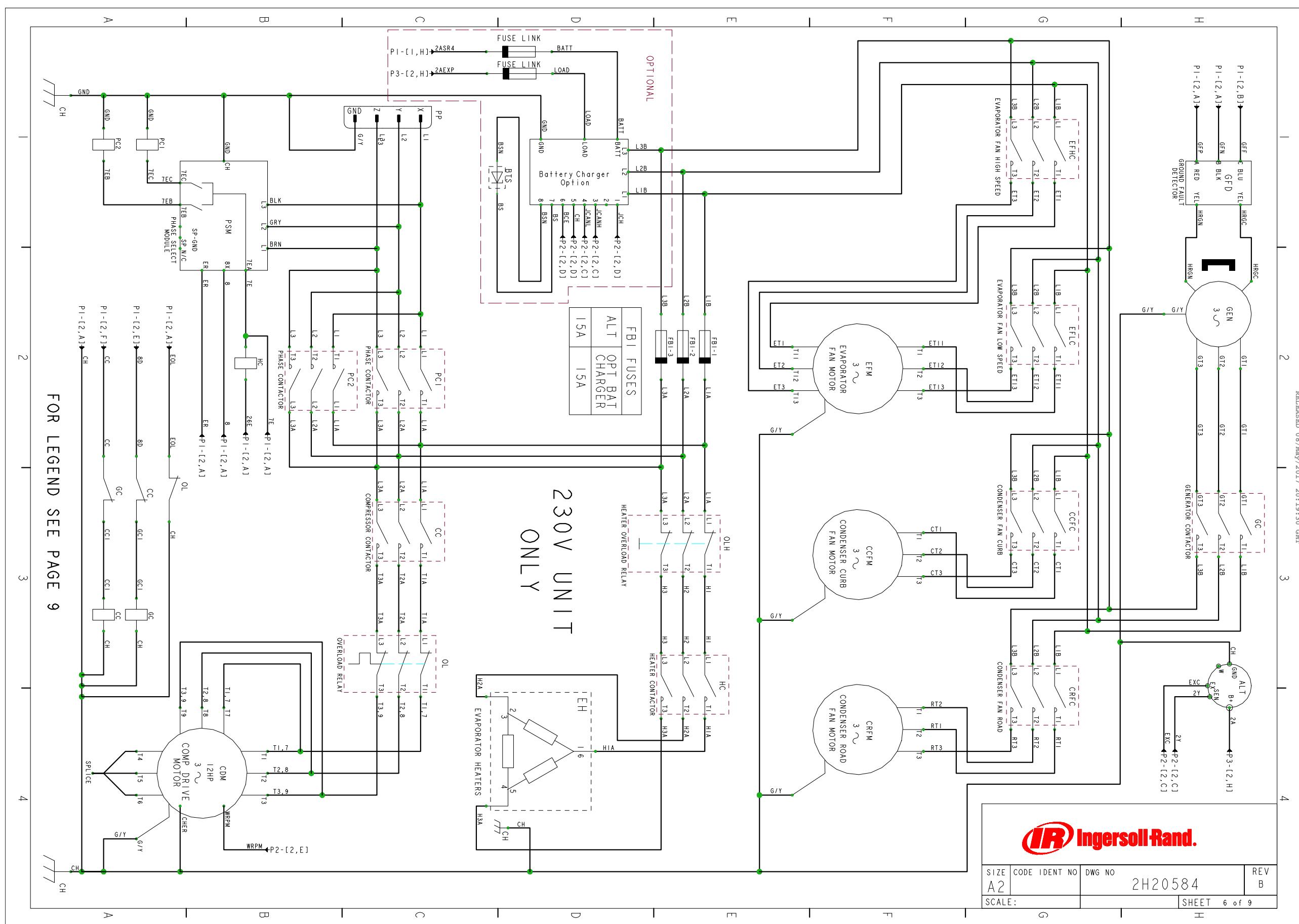


Figure 42. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 7 of 9)

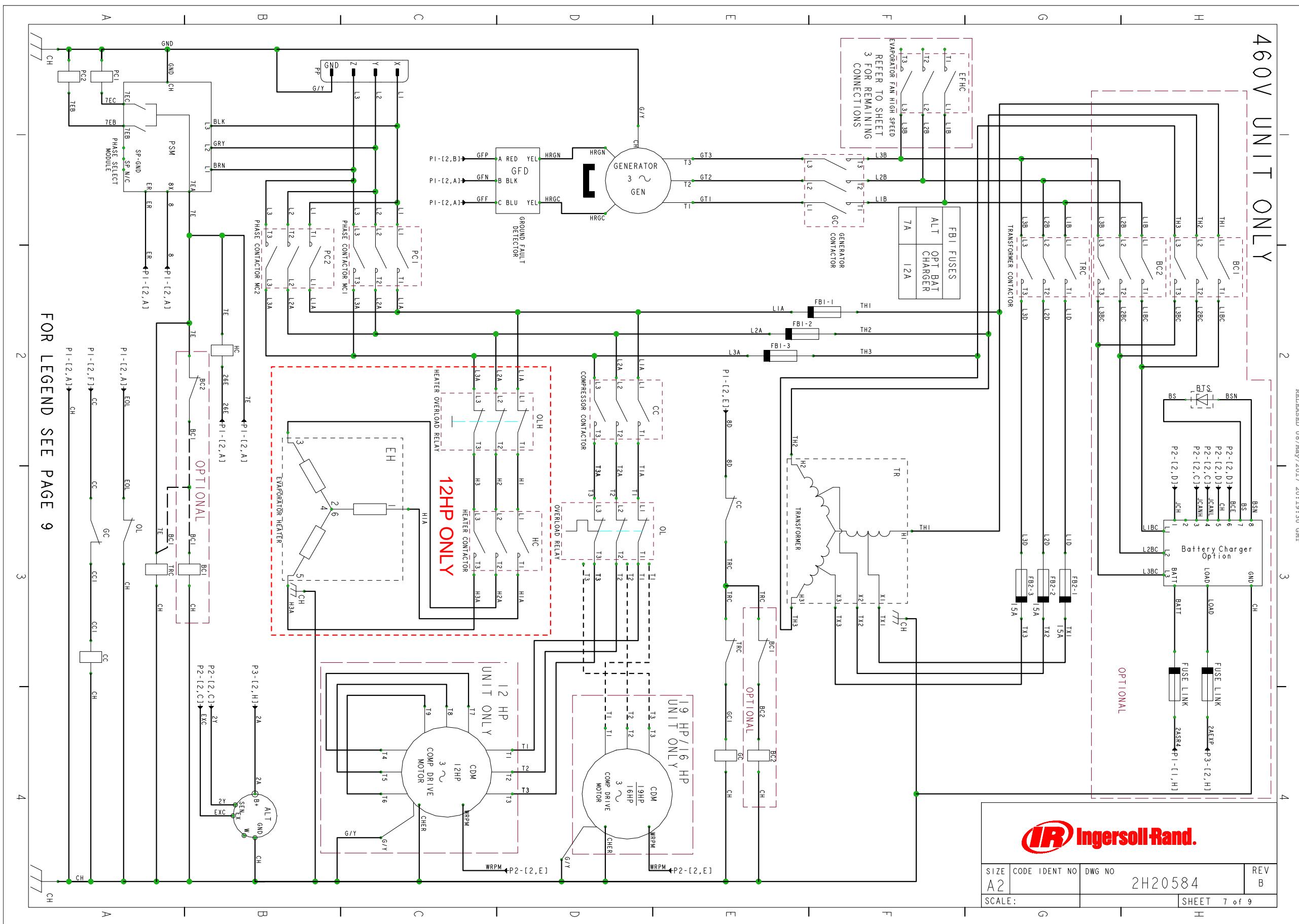
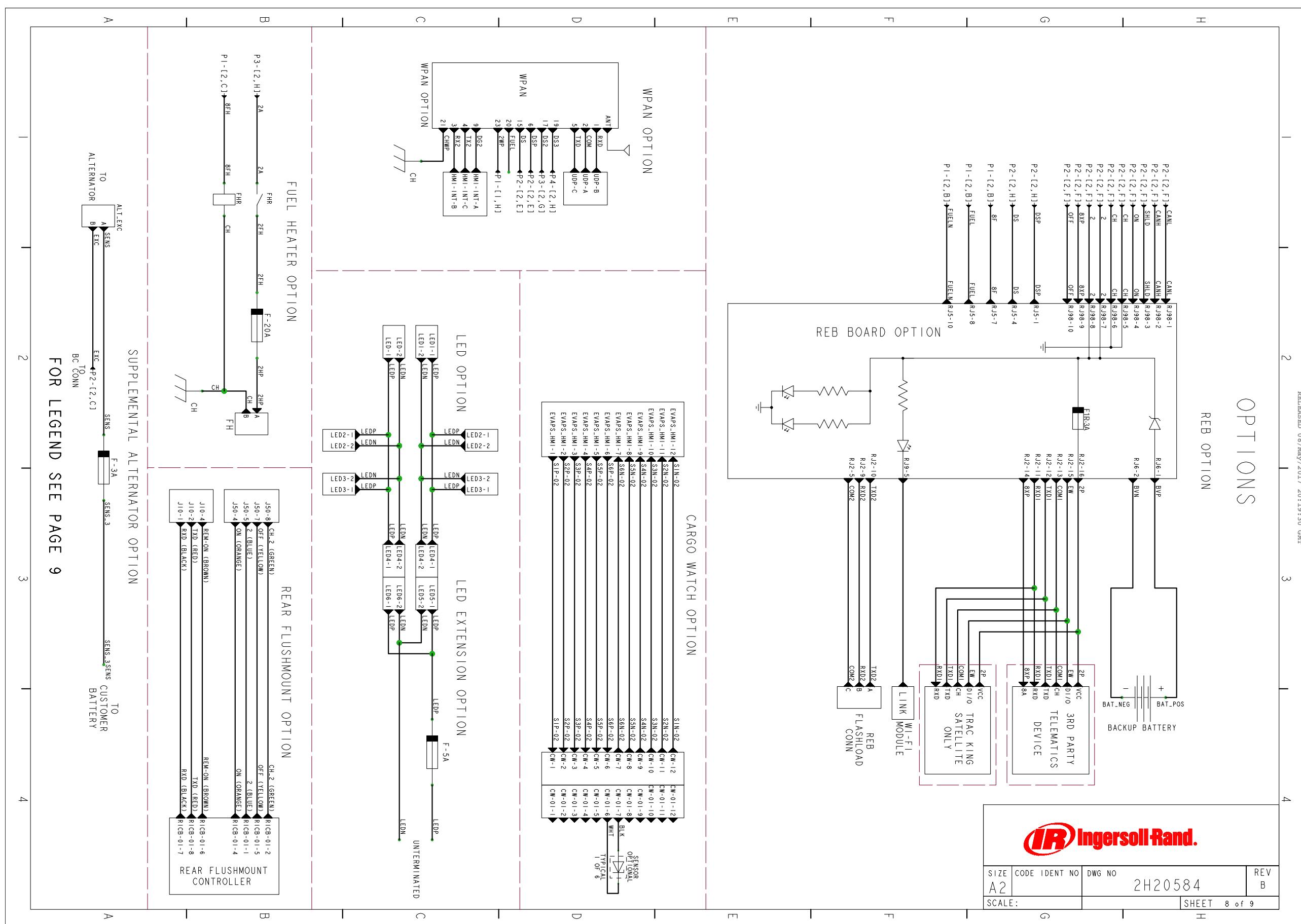


Figure 43. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 8 of 9)



**Figure 44. S-600M Schematic Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20584 (Sheet 9 of 9)**

<b>SCHEMATIC LEGEND</b>		2	3	4	REV B
REF DES	DESCRIPTION	LOCATION	REF DES	DESCRIPTION	LOCATION
3TL	3RD PARTY TELEMETRICS DEVICE	8-3G	K3	RELAY ON PCB HIGH SPEED SOL	1-1D, 1-2D
ADS	AIR DOOR SWITCH	2-2E	K6	RELAY ON PCB ON/OFF	1-1D, 2-1B
AFS	AUTO FRESH AIR SOLENOID	1-2G	K7	RELAY ON PCB DIESEL/ELECTRIC	1-2F
ALT	ALTERNATOR	5-1E, 6-3H, 7-4B	K8	RELAY ON PCB RUN	1-1F
ATS	AMBIENT AIR TEMP SENSOR	2-2A	K9	RELAY ON PCB STANDBY MOTOR	1-2E
BAT-CHG	BATTERY CHARGER	5-1F, 6-1D, 7-3H	K10	RELAY ON PCB AUTO FRESH AIR	1-2D, 1-1G
BCL	BATTERY CHARGER CONTACTOR 1	7-1H	K11	RELAY ON PCB AIR HEATER	1-1H, 2-1E
BZ2	BATTERY CHARGER CONTACTOR 2	7-1H	K50	RELAY MAN	4-1C
BTS	BATTERY TEMPERATURE SENSOR	5-1E, 6-1C, 7-2H	K51	RELAY POWER	4-1B
CARGO	CARGO SENSORS	8-4D	K52	RELAY KEY SWITCH	4-1A
CC	COMPRESSOR CONTACTOR	6-3A, 6-3C, 7-2D, 7-3A, 7-3E	K53	LED OPTION	8-2C
CFCC	CONDENSER CURB SIDE FAN CONTACTOR	2-2E, 5-3G, 6-3G	LED1	ECU RUN	1-1D
CCFM	CONDENSER CURB SIDE FAN MOTOR	5-3F, 6-3F	LED2	HIGH SPEED SOLENOID	1-1D
CDM	COMPRESSOR DRIVE MOTOR	6-4B, 7-4C, 7-4D	LED4	RUN RELAY 7K	1-2H
CIS	CONDENSER INLET SOLENOID	2-2G	LED5	DIESELELEC RELAY	1-2E
CLS	COOLANT LEVEL SWITCH	1-3B	LED6	ON/OFF 8X	1-1D
CRFC	CONDENSER ROAD SIDE FAN CONTACTOR	2-2D, 5-4G, 6-4G	LED7	STARTER RELAY	1-2H
CRFM	CONDENSER ROAD SIDE FAN MOTOR	5-4F, 6-4F	LED8	FUEL SOLPULL IN 80P	2-1G
CTS	COT TEMP SENSOR	2-2A	LED9	FUEL PUMP	2-1G
DT52	DISCHARGE AIR TEMP SENSOR ZONE 2	3-3F, 3-3A	LED10	PRE-HEAT RELAY	2-1D
DT53	DISCHARGE AIR TEMP SENSOR ZONE 3	4-3H, 4-3C	LED11	HOT GAS SOLENOID	2-1H
ECU	ENGINE CONTROL UNIT	4-3C	LED12	PURGE VALVE	2-1G
EFHC	EVAPORATOR FAN HIGH SPEED CONTACTOR	2-2D, 5-1G, 6-1G, 7-1F	LED13	HOT GAS BYPASS	2-1H
EFLC	EVAPORATOR FAN LOW SPEED CONTACTOR	2-2D, 5-2G, 6-2G	LED14	RECEIVER TANK PRESSURE SOLENOID	2-1G
EFM	EVAPORATOR FAN MOTOR	5-2F, 6-2F	LED15	FUEL HEATER	1-2C
EH	EVAPORATOR HEATERS	6-4D, 7-3B	LED16	EVAPORATOR FAN HIGH SPEED	2-1D
ETV	ELECTRIC THROTTLE VALVE	1-2G	LED17	CONDENSER ROAD SIDE FAN	2-1D
EVAPS	EVAPORATOR SENSORS	2-4B, 8-2D	LED18	CONDENSER CURB SIDE FAN	2-1G
F15A	FUSE ON SR4 TO REB BOARD	2-1F	LED37	EQU KEY SWITCH	2-1E
F1R-3A	POWER TO 3RD PARTY RADIO	8-2G	LED38	BATTERY CHARGER	2-1C
F215A	FUSE ON SR4 TO ON/OFF SWITCH	1-1F	LED43	ELECTRIC STANDBY MOTOR	2-1E
F3-40A	FUSE ON SR4 TO FULE SOLENOID POWER/STARTER	1-1E	LED44	AUTO FRESH AIR AFAD	1-1F
F3A	FUSE SENS	1-2E	LED46	ELECTRIC THROTTLING VALUE - EVD	1-1G
F4-2A	FUSE ON SR4 TO ALTERNATOR	8-2A	LED47	ELECTRIC THROTTLING VALUE - EVA	1-1G
F5-60A	FUSE ON SR4 TO AIR HEATER	2-1C	LED49	ELECTRIC THROTTLING VALVE - EVC	1-1G
F-5A	FUSE LED	8-4C	LED50	MAIN RELAY	1-1G
F6-15A	FUSE ON SR4 TO J13	1-1D	LED51	POWER RELAY	4-1B
F7-2A	FUSE ON SR4 TO RIM	1-2B	LED52	KEY SW RELAY	4-1A
F8-5A	FUSE ON SR4 TO HMI	2-1B	LED53	MOTOR FM21	3-1E
F10 Bypass-15A	FUSE ON SR4 BYPASS HMI CONTROL	1-1D	LEDX1	MOTOR FM22	3-1E
F10-15A	FUSE ON SR4 FROM K6, BYPASS HMI CONTROL	1-1D	LEDX2	MOTOR FM23	3-1D
F12-5A	FUSE ON SR4 TO RIM	2-1C	HGS2		
F13-2A	FUSE ON SR4 TO SR4 TO RIM	1-2D	SLS2		
F15-2A	FUSE ON SR4 FROM K6, BYPASS HMI CONTROL	1-1G	LEDX12		
F20-2A	FUSE ON SR4 TO HMI	2-1C	LEDX13	MOTOR FM33	3-1F
F2-20A	FUSE FUEL HEATER	8-2B	LEDX14	ZONE 3 DEAN HOSE HEATER	4-1E
F22-10A	FUSE SR4 TO AF'S	1-1G	LEDX15	MOTOR FM31	4-1F
F25-7,5A	FUSE ON SR4 TO HPCO	1-1F	LSS	LIQUID LINE SOLENOID HOST ZONE 1	2-2H
F51-7,5A	FUSE MAIN RELAY	4-1B	LSS2	LIQUID LINE SOLENOID HOST ZONE 2	3-2F
FB-15A	FUSE POWER RELAY	4-1C	LSS3	LIQUID LINE SOLENOID ZONE 3	4-2G
F52-7,5A	FUSE BLOCK FANS & BATTERY CHARGER	4-1B	OL	OIL LEVEL SWITCH	7-3D
F53-10A	FUSE HIGH PRESSURE FUEL PUMP	4-1B	OLS	OVERLOAD RELAY	7-2C
F55-15A	FUSE STARTER RELAY	4-1B	PC	OVERLOAD RELAY HEATERS	4-3C
F57-5A	FUSE KEY SWITCH	4-1C	PC1	PC PORT	4-1G
FP	FUSE OBD ON	4-1A	PC2	PHASE CONTACTOR (NOT REVERSED)	3-1E
FS-1-100A	FUSE OBD POWER	4-1A	PP	PHASE CONTACTOR(REVISED)	3-1E
FS6-60A	FUSE BATTERY POWER	4-1A	PRINT	POWER PLUG	4-1F
FB1-7A	FUSE PRIMARY TRANSFORMER ALT	7-2E	PSM	PRINTER PORT	4-1F
FB1-12A	FUSE BLOCK PRIMARY BATTERY CHARGER	7-2E	PV	PHASE SELECT MODULE	3-1E
F52-15A	FUSE POWER RELAY	6-2E	RAS	PURGE VALVE	3-1E
F53-10A	FUSE BLOW BY HEATER	7-3G	RAS2	RETURN AIR TEMP SENSOR	4-1E
F54-10A	FUSE LAMBDA SENSOR AIR FLOW	8-2B	RAS3	RETURN AIR TEMP SENSOR ZONE 2	4-1G
F55-15A	FUSE HIGH PRESSURE FUEL PUMP	8-2B	REB	RETURN AIR TEMP SENSOR ZONE 3	4-2H
FH	FUEL HEATER RELAY	8-1B	RFC	REB FLUSH LOAD CONNECTOR	8-3F
FHR	FUEL HEATER	8-1B	RLM	REMOTE LIGHT MODULE	1-2F
FIS	ULTRASONIC FUEL LEVEL SENSOR	1-2B	RIPS	RECEIVER TANK PRESSURE SOLENOID	6-1A, 6-2C, 7-1A, 7-1C
FLS	FLUSHMOUNT OPTIION	8-4A	SLS	SUCTION LINE SOLENOID HOST ZONE 1	6-1C, 7-1C
FP	FUSE PUMP	2-2H	SLS2	SUCTION LINE SOLENOID ZONE 2	2-2H
FS-20A	FUSE BATTERY TO SR4 BOARD	1-2H	SLS3	SUCTION LINE SOLENOID ZONE 3	3-3F, 3-3C
FS-3-70A	FUSE BATTERY TO ECU	1-2H	SM	STARTER MOTOR	2-2G
FX-4-20A	FUSE BATTERY TO STARTER RELAY	3-1D	SPT	SUCTION LINE PRESSURE TRANSDUCER	3-3F, 3-3B
FX-5-15A	FUSE BATTERY TO CHARGER	3-1F	SS1	SPARE SENSOR 1	2-3A
FUSE LINK	FUSE ZONE 3 MOTOR 2	4-1F	SS2	SPARE SENSOR 2	4-3F, 4-3E
FUSE ZONE 2 MOTOR 3	FUSE ZONE 3 MOTOR 2 MOTOR 3	4-1F	SS3	SPARE SENSOR 3	2-3A
FX-6-20A	FUSE ZONE 3 MOTOR 3	5-1E, 6-1D, 7-3H	STR	STARTER RELAY	1-3H, 4-2A
FX-6-20A	FUSE ZONE 2 MOTOR 3	5-1F, 6-1D, 7-3H	SW1	SUPPL ALT	1-2D
FX-8-15A	FUSE ZONE 3 MOTOR 3	3-1E	TCK	ON/OFF SWITCH	1-2G
FX-3-20A	FUSE ZONE 2 MOTOR 2	3-1E	TR	TRAC KING	1-2G
FX-4-20A	FUSE ZONE 2 MOTOR 3	3-1D	TRC	TRANSFORMER	1-2G
FX-5-15A	FUSE ZONE 3 MOTOR 2	3-1F	TRD	TRANSFORMER CONTACTOR	1-2G
FUSE ZONE 3 MOTOR 2	FUSE ZONE 2 MOTOR 3	4-1F	UFD	UFD PORT	1-2F
FX-30-2A	FUSE ZONE 3 MOTOR 2	3-1H	WFM	WF-MODULE	8-3F
FX-32-5A	FUSE ZONE 3 MOTOR 2	3-1G	WPAN	WPAN OPTION	8-1D
GC	DIGITAL GROUND	6-3A, 6-3H, 7-1F, 7-3A, 7-4E	ZFFM1	ZONE 2/FAN MOTOR 1	3-2E
GEN	GENERATOR CONTACTOR	5-2H, 6-2H, 7-1E	ZFFM1	ZONE 2/FAN MOTOR 1 (PARALLEL)	3-2B
GFD	GROUND FAULT DETECTOR	5-3H, 6-1H, 7-1D	ZFFM2	ZONE 2/FAN MOTOR 2 (PARALLEL)	3-2B
HC	HEATER CONTACTOR	6-2B, 6-3E, 7-3D	ZFFM3	ZONE 2/FAN MOTOR 3 (PARALLEL)	3-2D
HGB	HOT GAS BYPASS	2-2H	ZFM3	ZONE 3/FAN MOTOR 1 (PARALLEL)	3-2B
HGS	HOT GAS SOLENOID HOSTZONE 1	2-2H	ZFM1	ZONE 3/FAN MOTOR 1	4-3F
HGS2	HOT GAS SOLENOID ZONE 2	3-3E, 3-3C	ZFM2	ZONE 3/FAN MOTOR 2	4-3F
HGS3	HOT GAS SOLENOID ZONE 3	4-3G, 4-3E	ZFM2	ZONE 3/FAN MOTOR 2 (PARALLEL)	4-3F
HM	HUMAN/MACHINE INTERFACE	2-3B	ZFM3	ZONE 3/FAN MOTOR 3 (PARALLEL)	4-3F
HRCO	HIGH PRESSURE CUTOUT SWITCH	1-2F			
K1	RELAY ON PCB FUEL STARTER	1-2H, 1-2D			
K2	RELAY ON PCB FUEL SOL PULL IN	1-2E, 1-2D			

**Ingersoll Rand.**

SIZE A2	CODE IDENT NO	DWG NO	REV B
SCALE:		2H20584	

Figure 45. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 1 of 9)

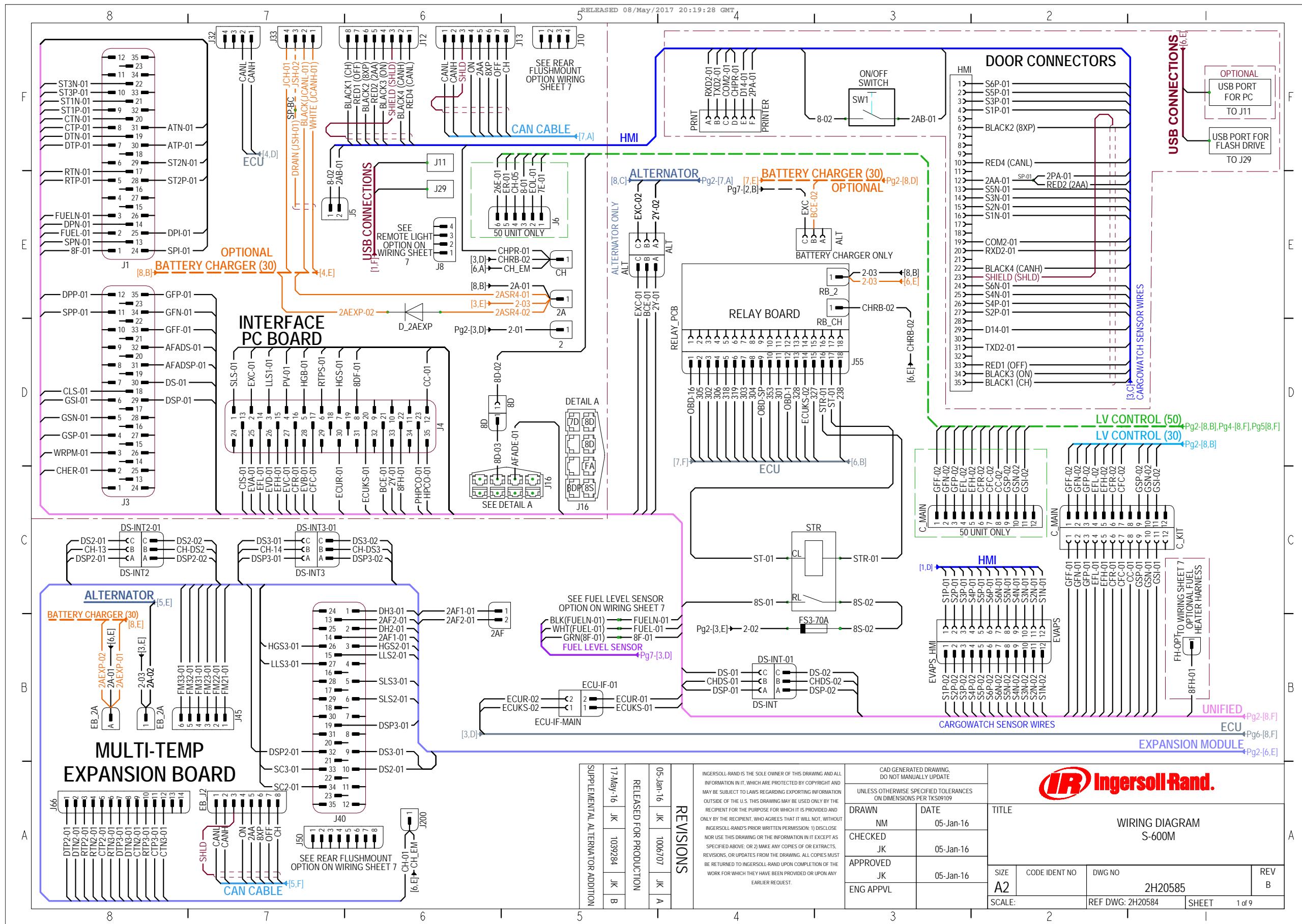


Figure 46. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 2 of 9)

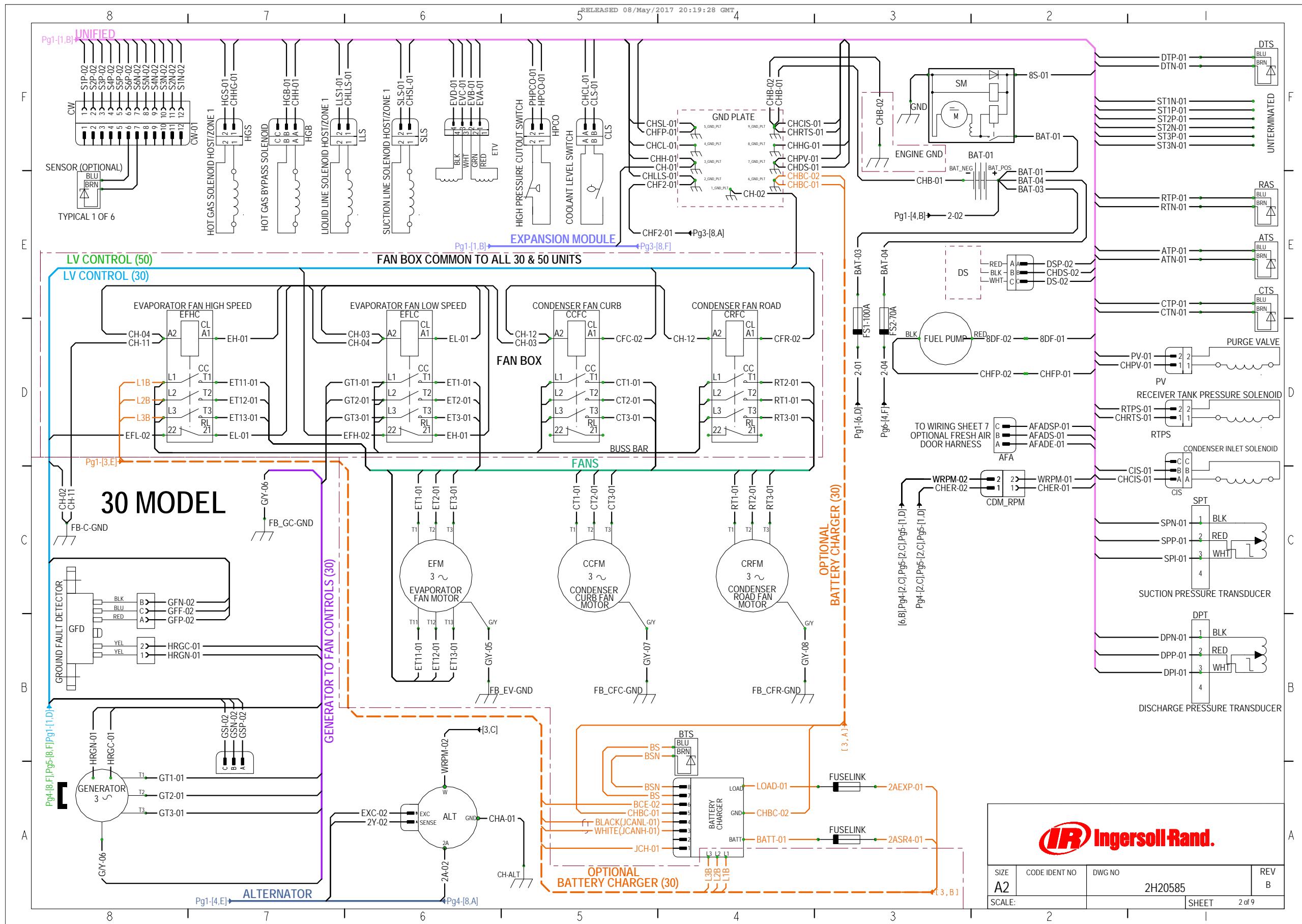


Figure 47. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 3 of 9)

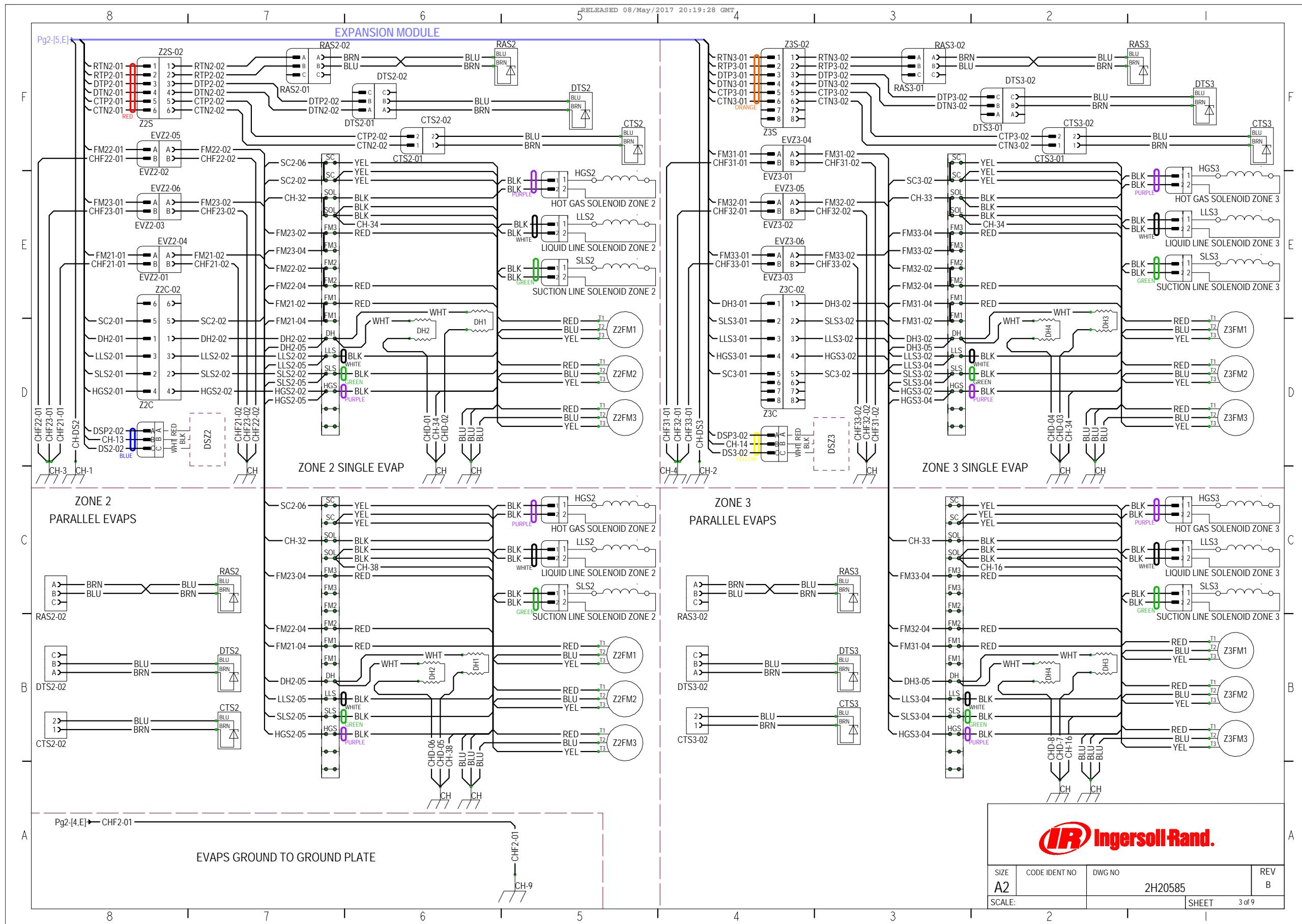


Figure 48. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 4 of 9)

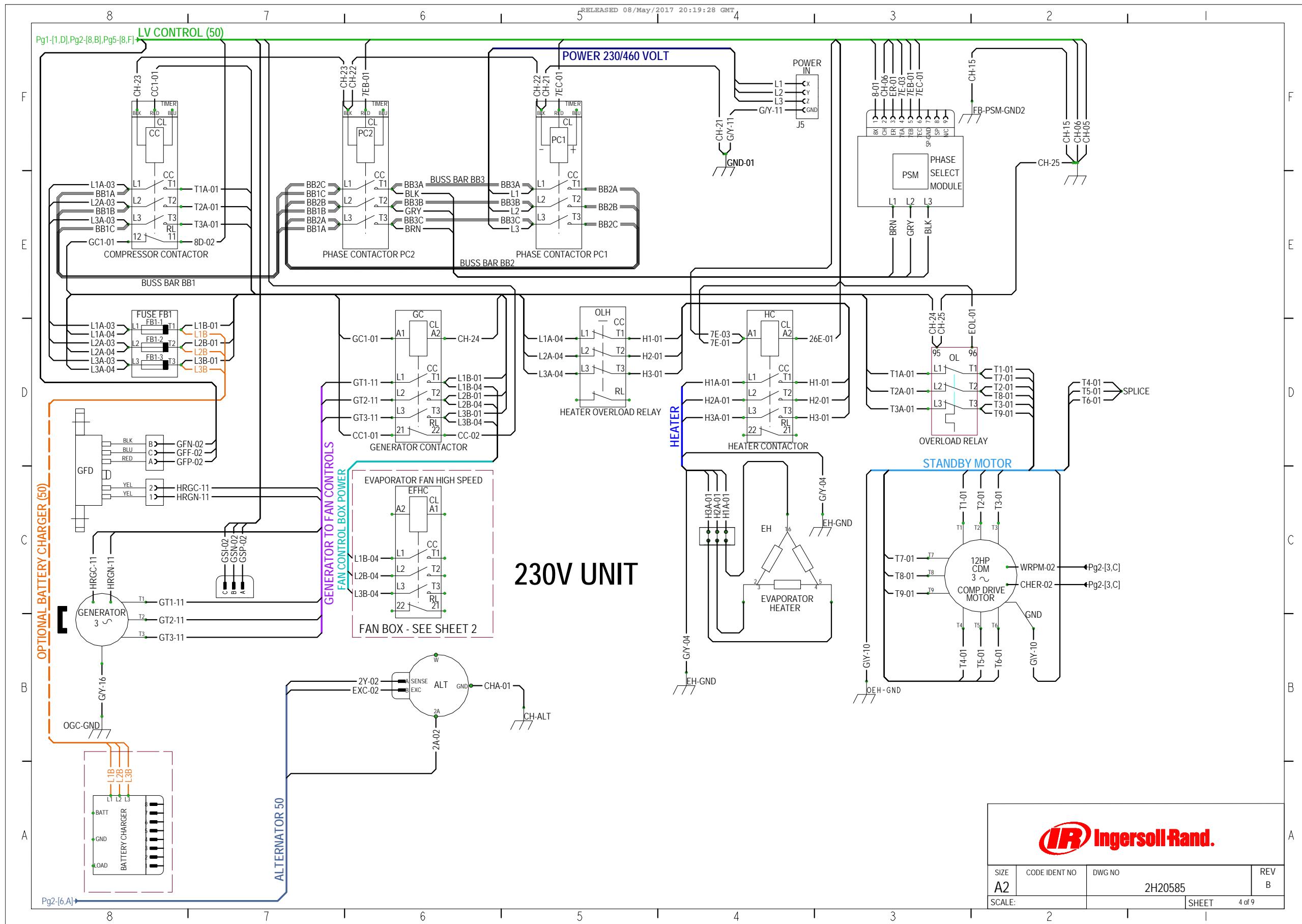


Figure 49. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 5 of 9)

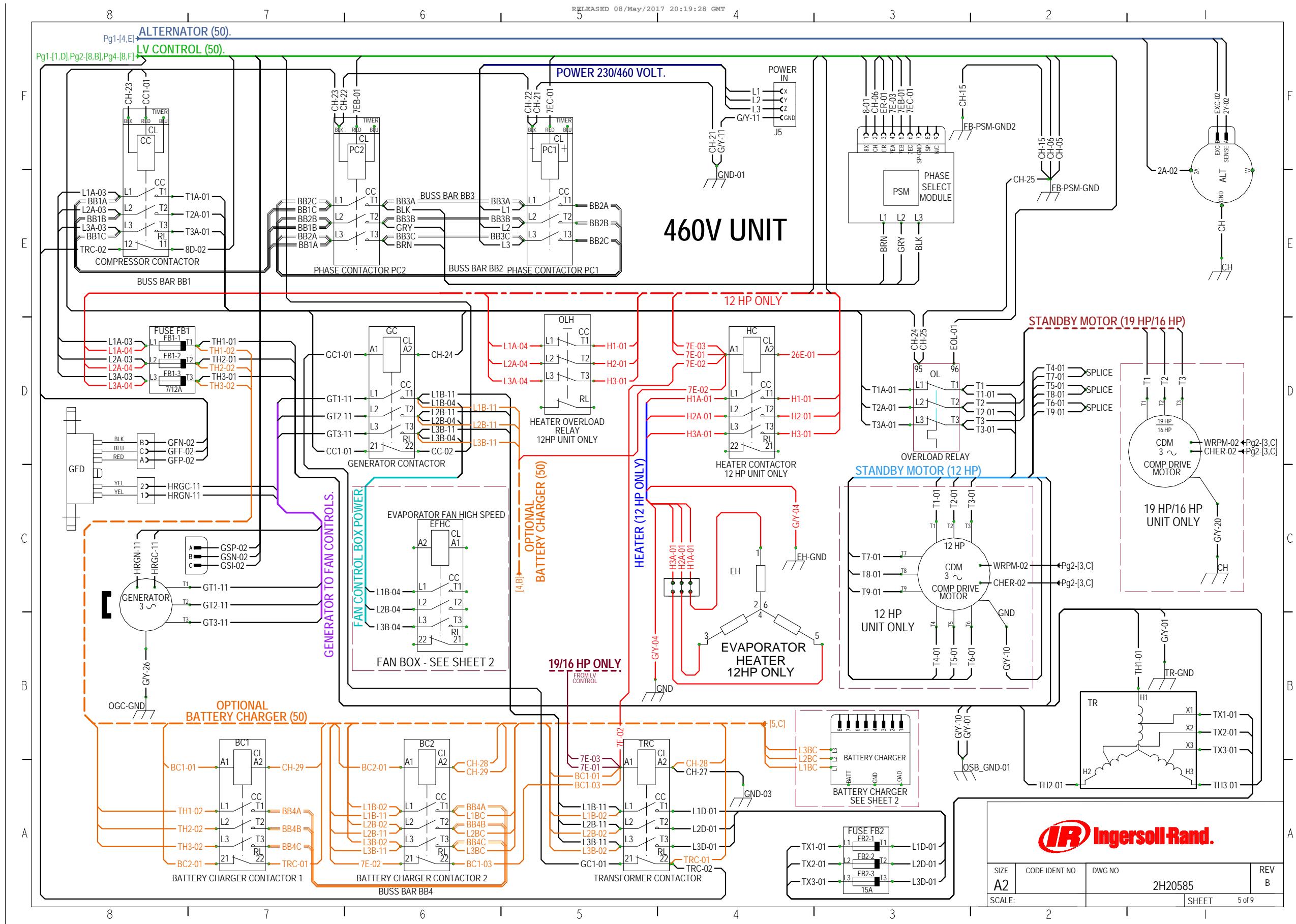


Figure 50. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 6 of 9)

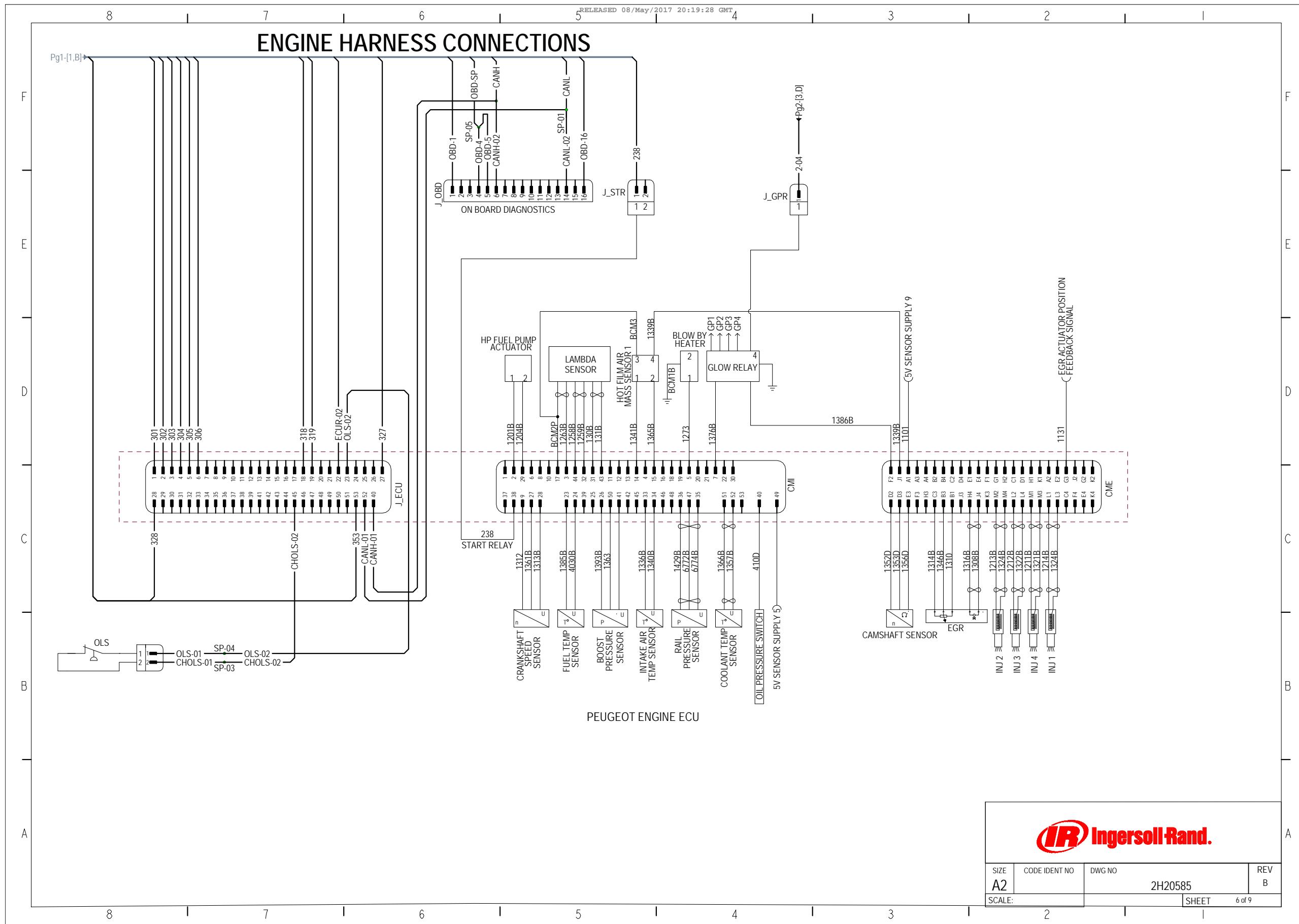


Figure 51. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 7 of 9)

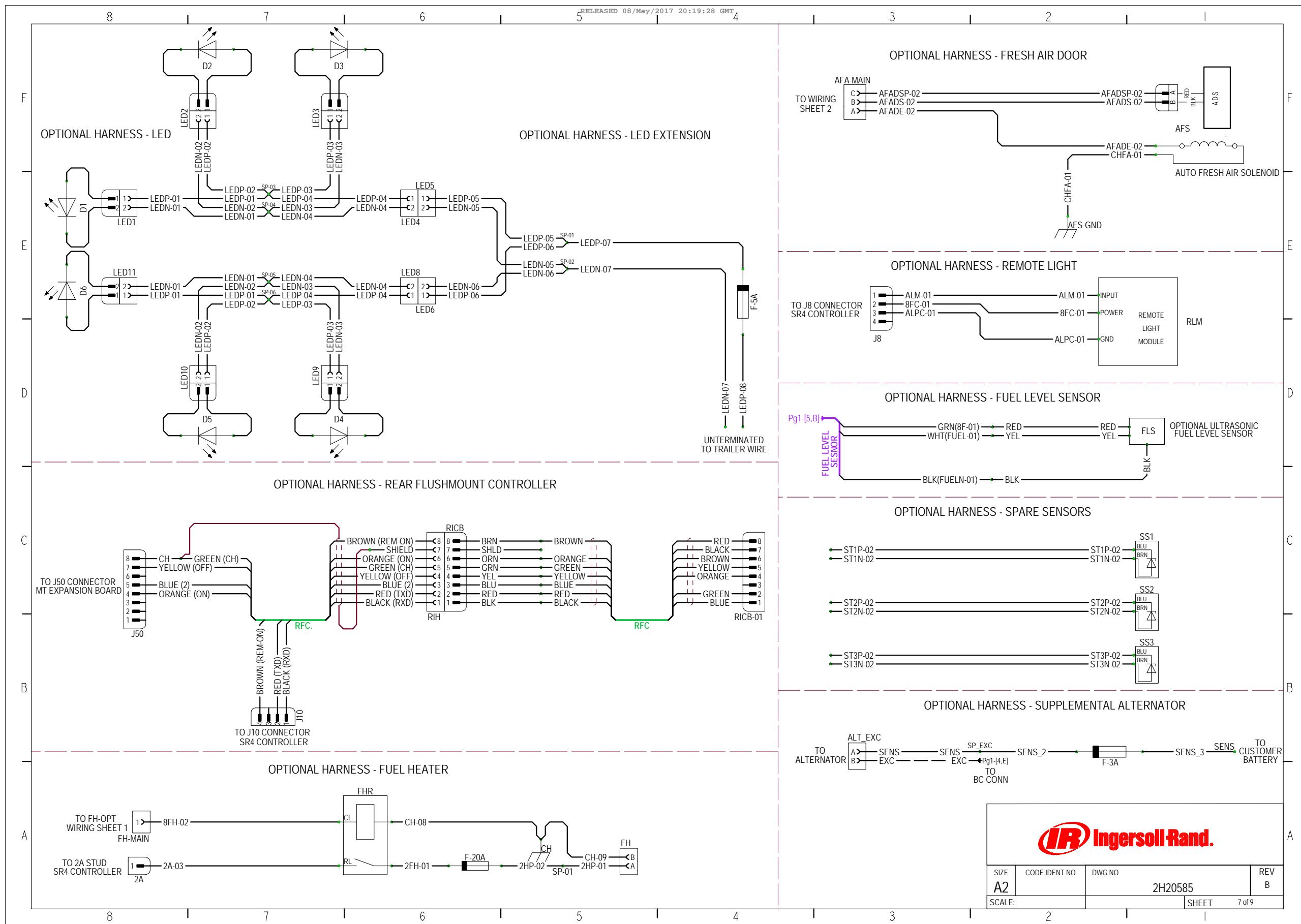
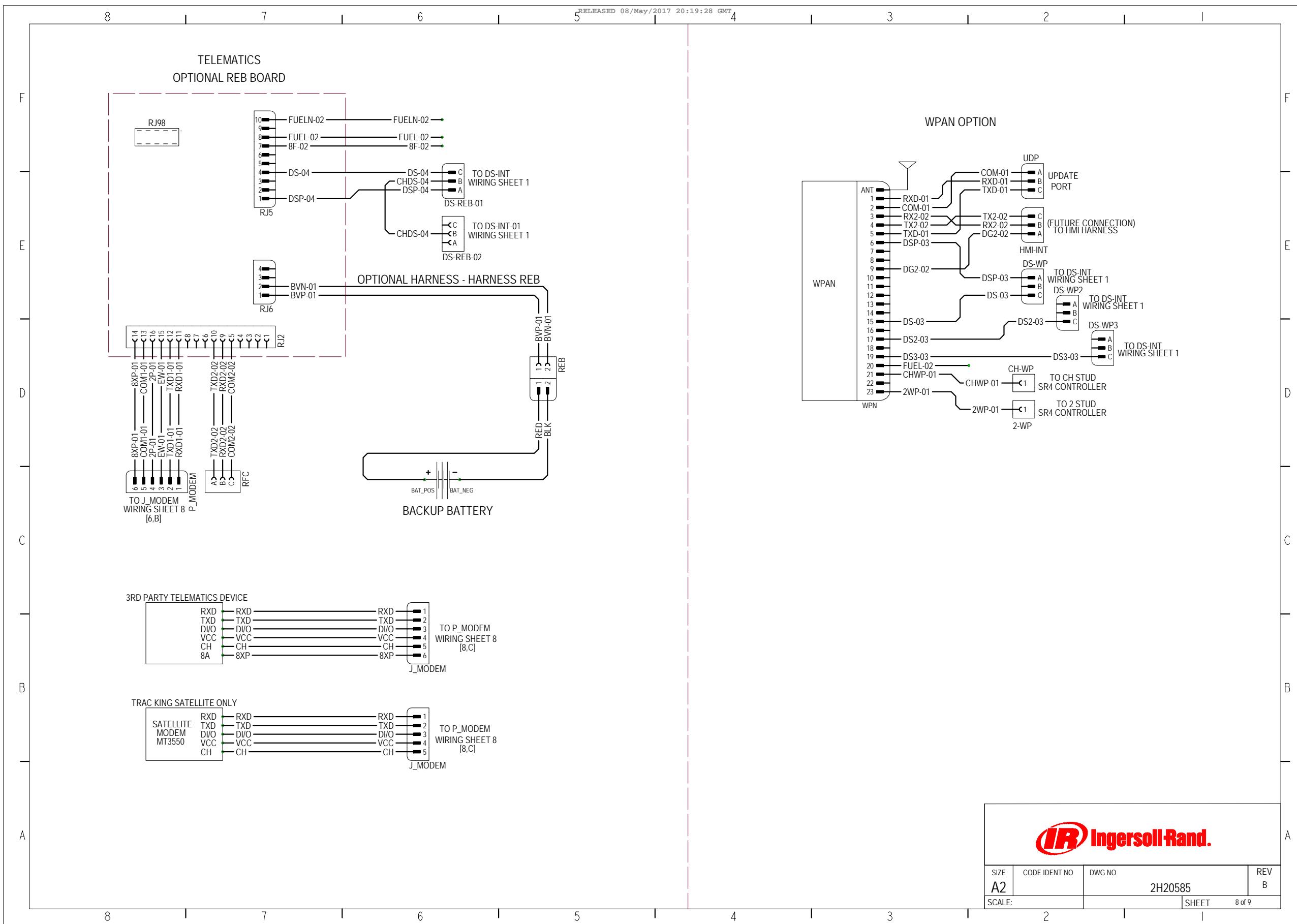


Figure 52. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 8 of 9)



**Figure 53. S-600M Wiring Diagram (Evaporator Heaters on 12 HP SmartPower Units only) 2H20585 (Sheet 9 of 9)**

Figure 54. S-610DE Schematic Diagram 2H23813 (Sheet 1 of 9)

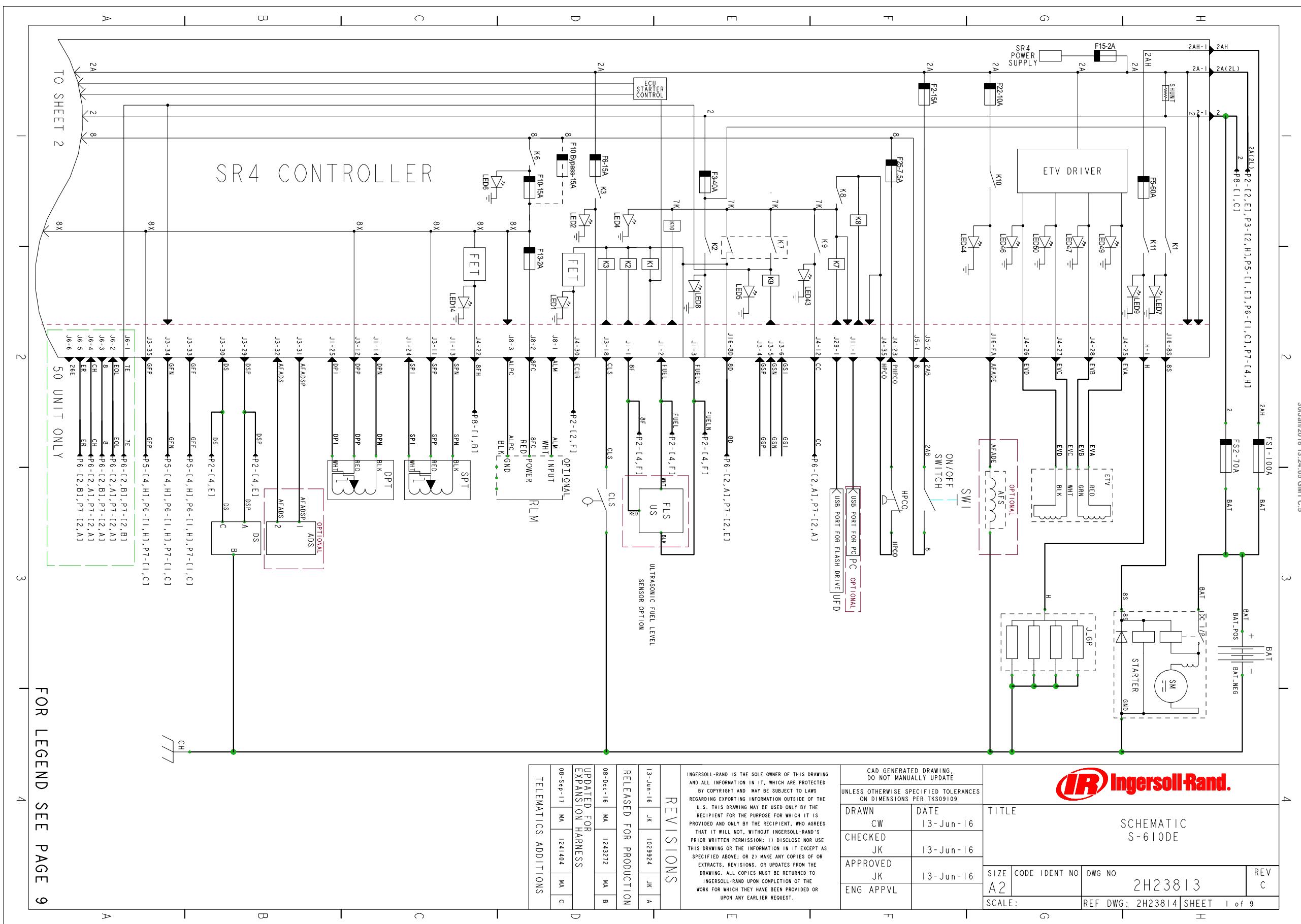


Figure 55. S-610DE Schematic Diagram 2H23813 (Sheet 2 of 9)

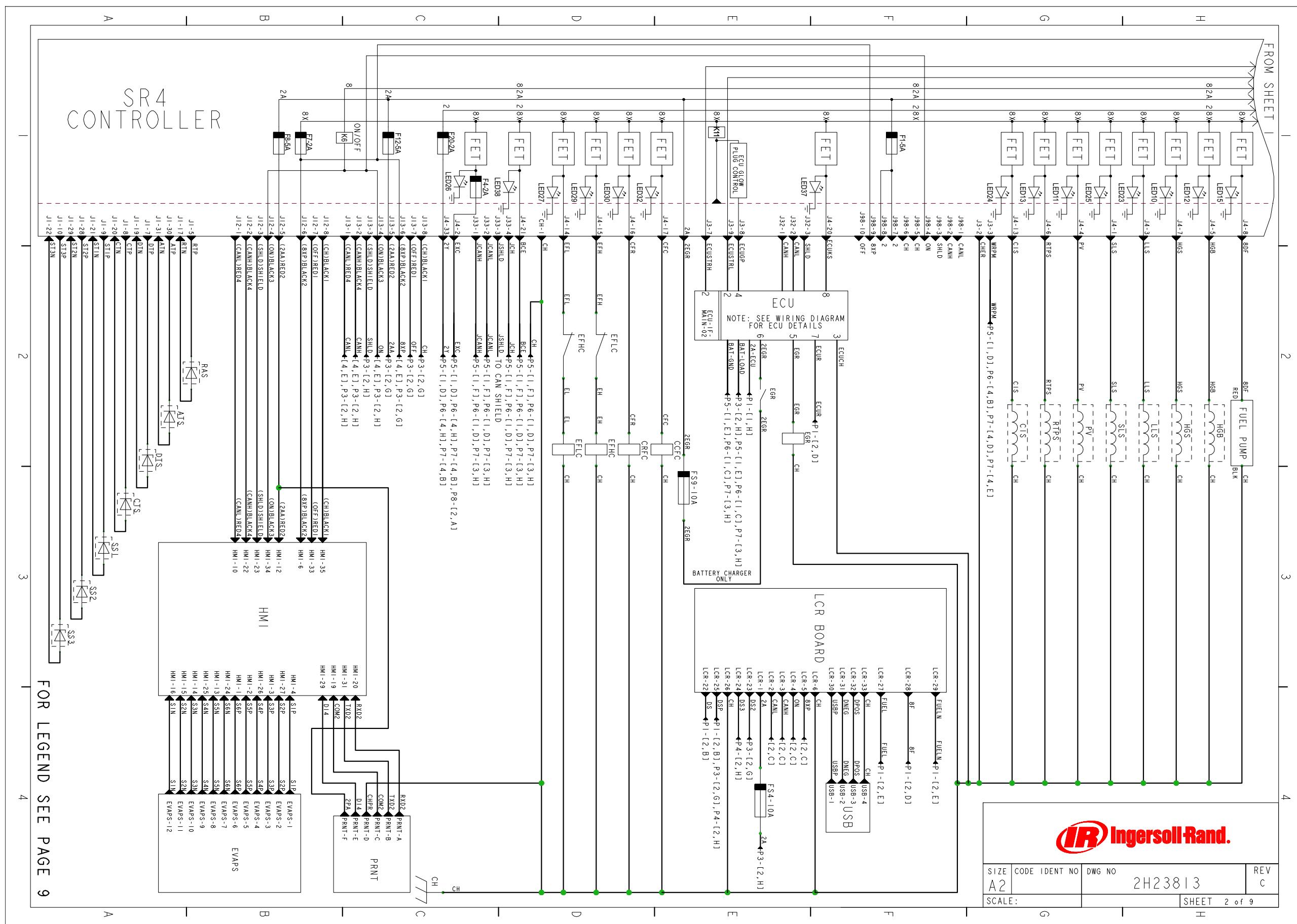


Figure 56. S-610DE Schematic Diagram 2H23813 (Sheet 3 of 9)

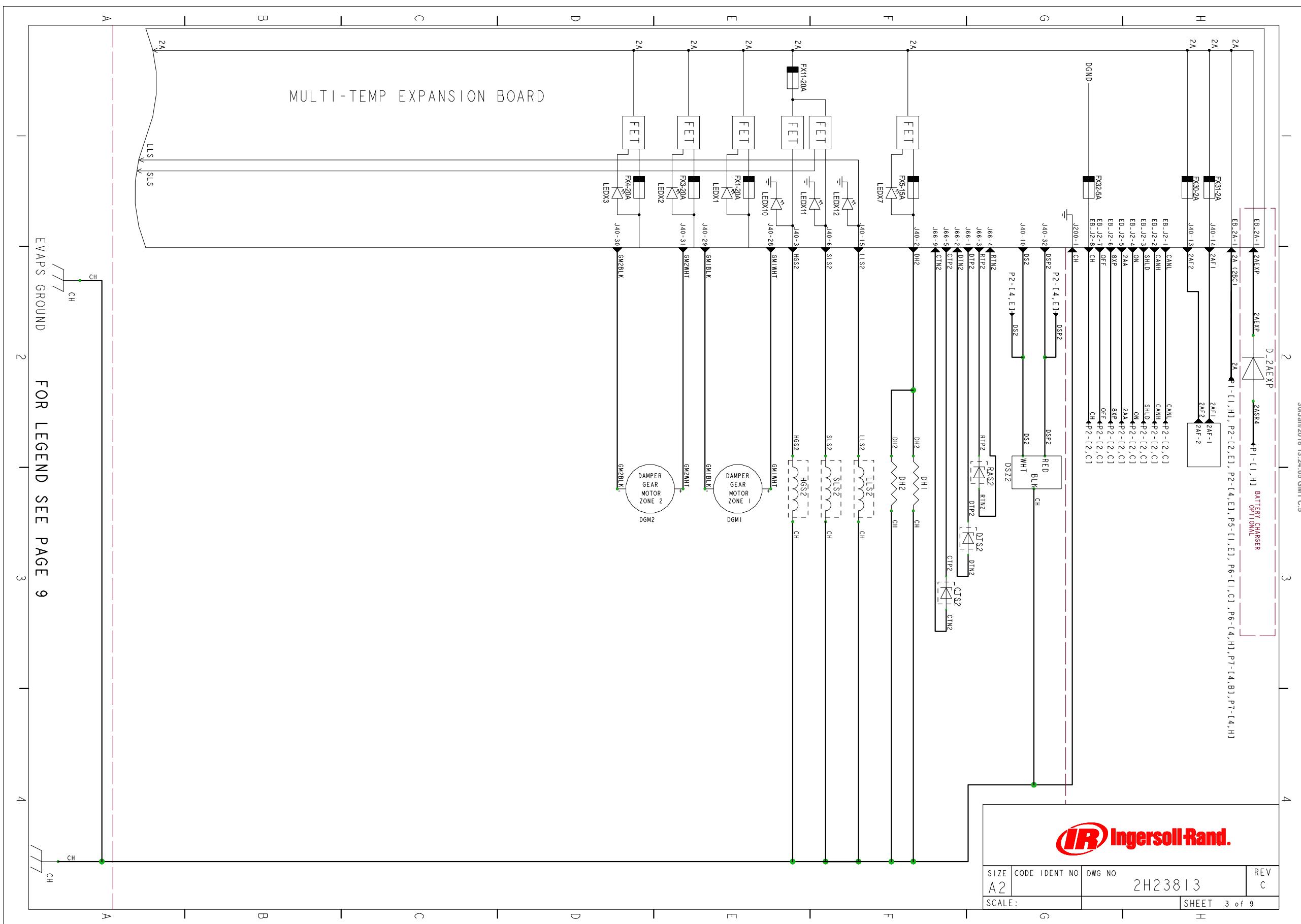


Figure 57. S-610DE Schematic Diagram 2H23813 (Sheet 4 of 9)

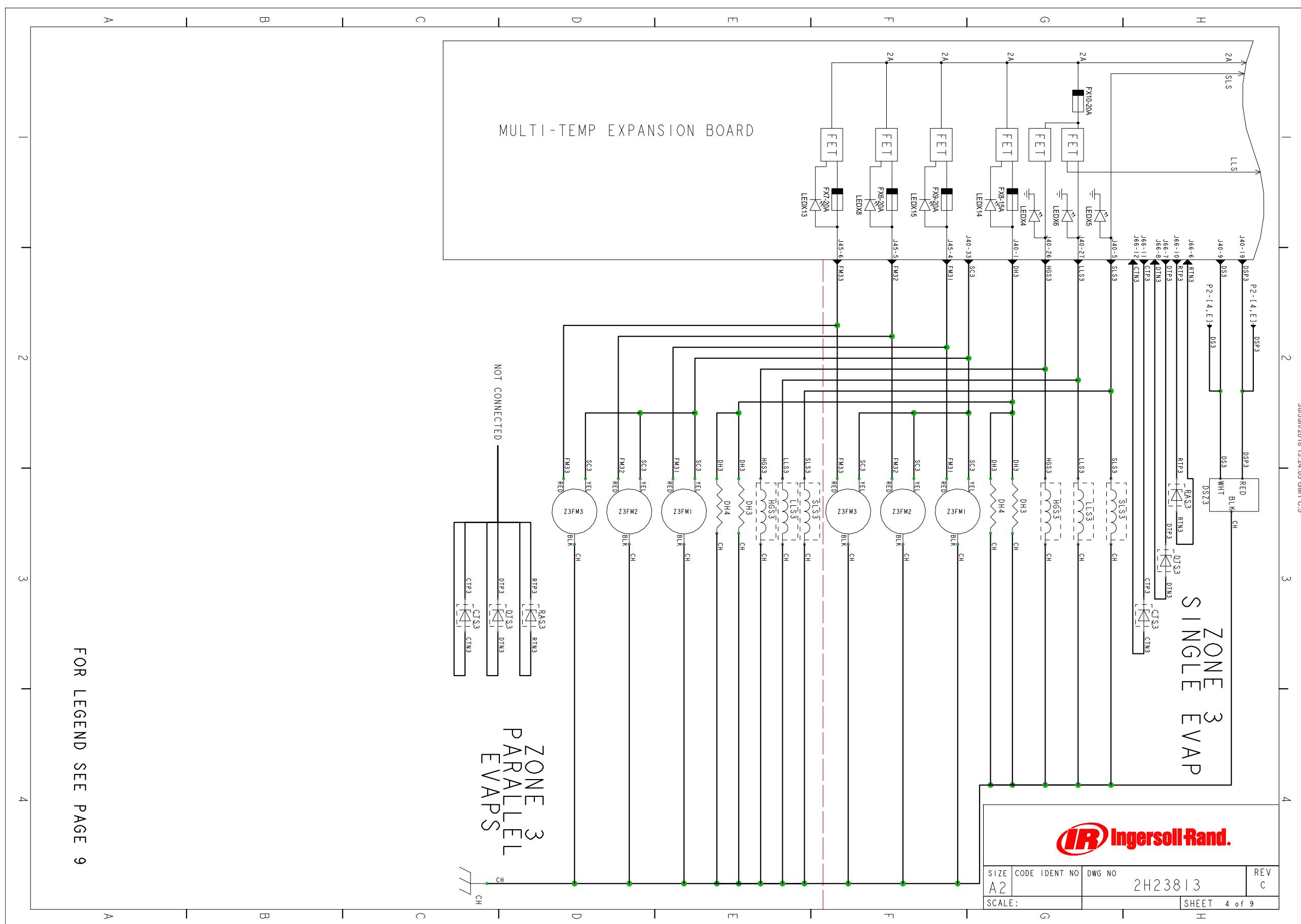
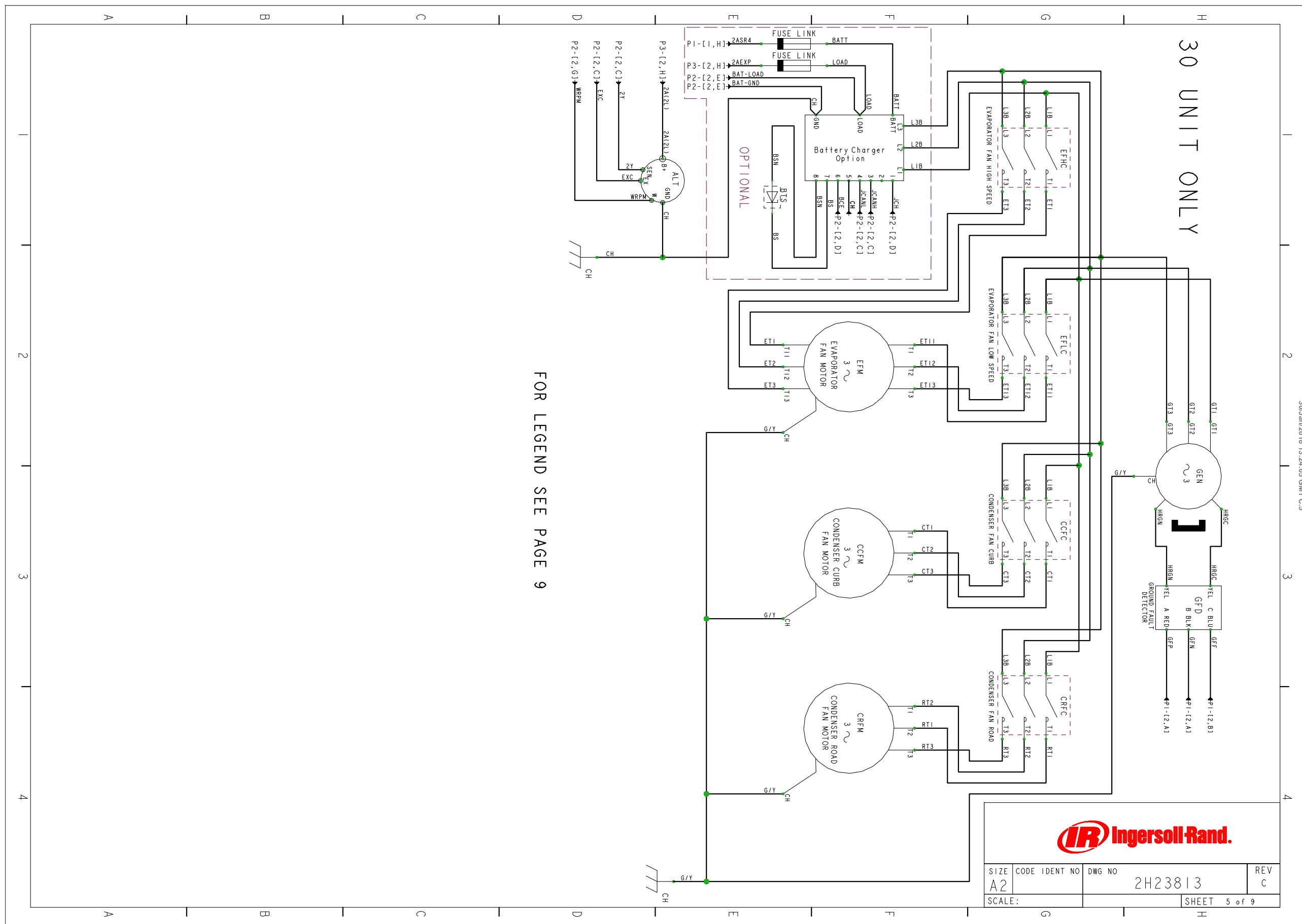
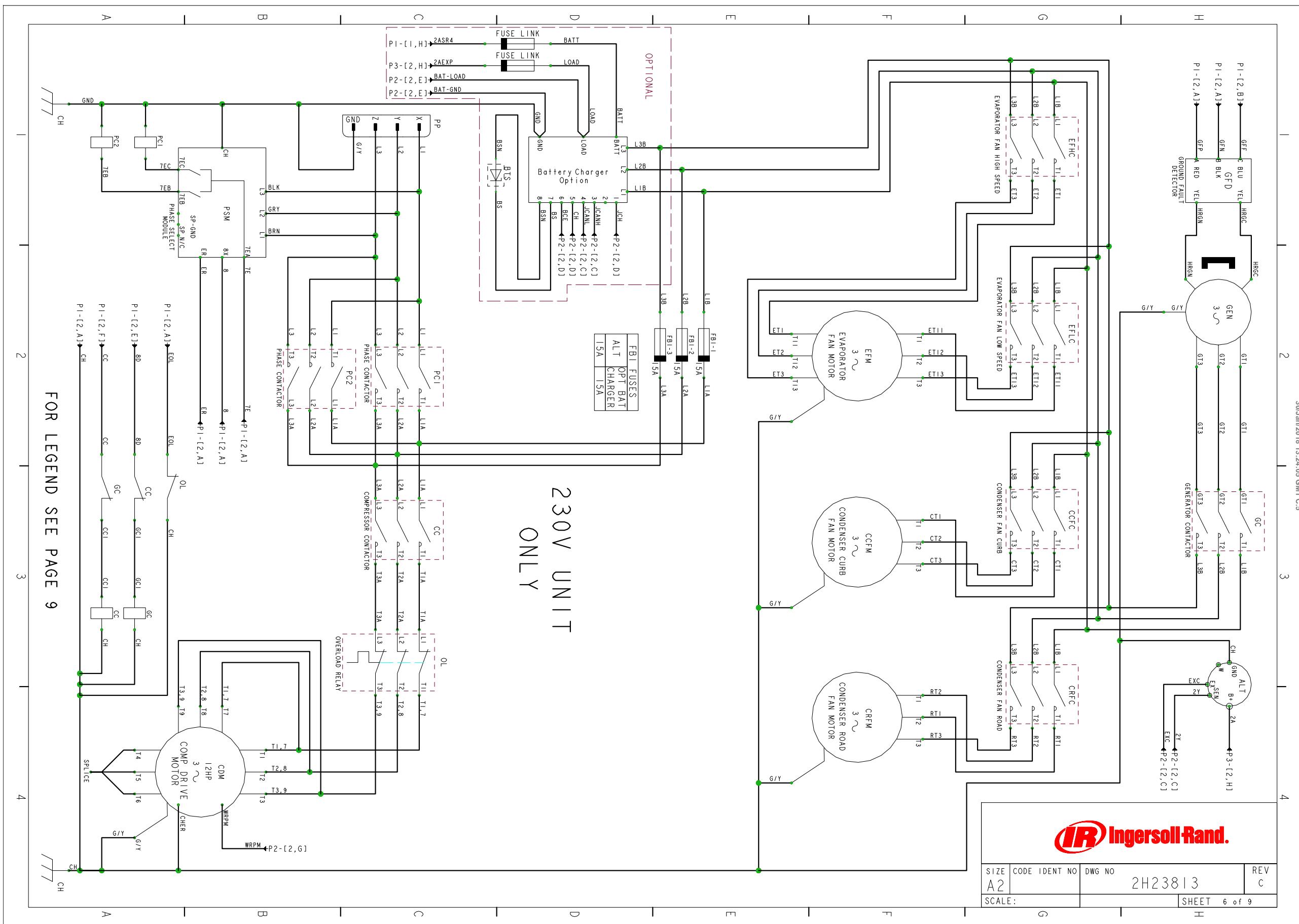


Figure 58. S-610DE Schematic Diagram 2H23813 (Sheet 5 of 9)



FOR LEGEND SEE PAGE 9

Figure 59. S-610DE Schematic Diagram 2H23813 (Sheet 6 of 9)



**Figure 60. S-610DE Schematic Diagram 2H23813 (Sheet 7 of 9)**

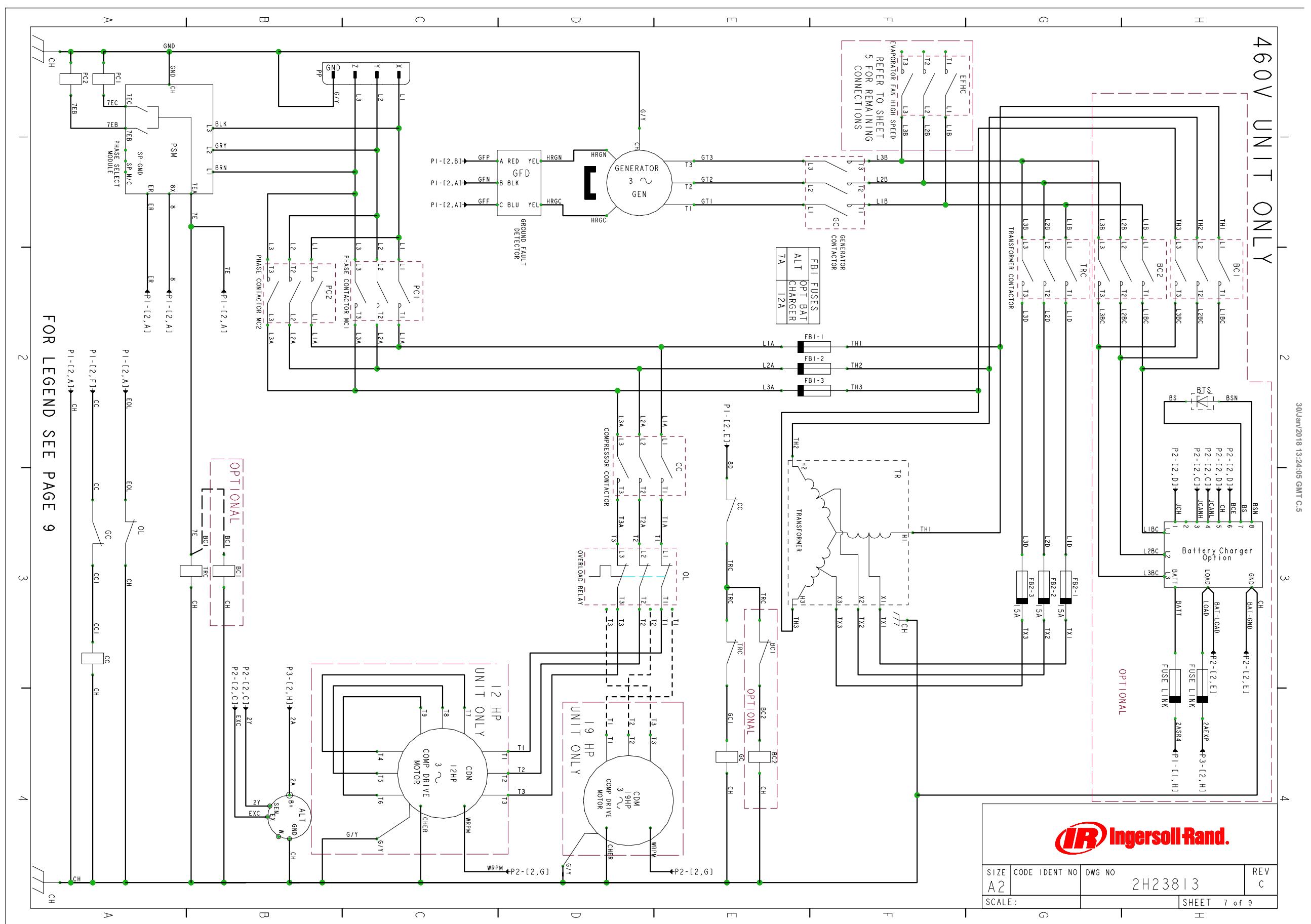


Figure 61. S-610DE Schematic Diagram 2H23813 (Sheet 8 of 9)

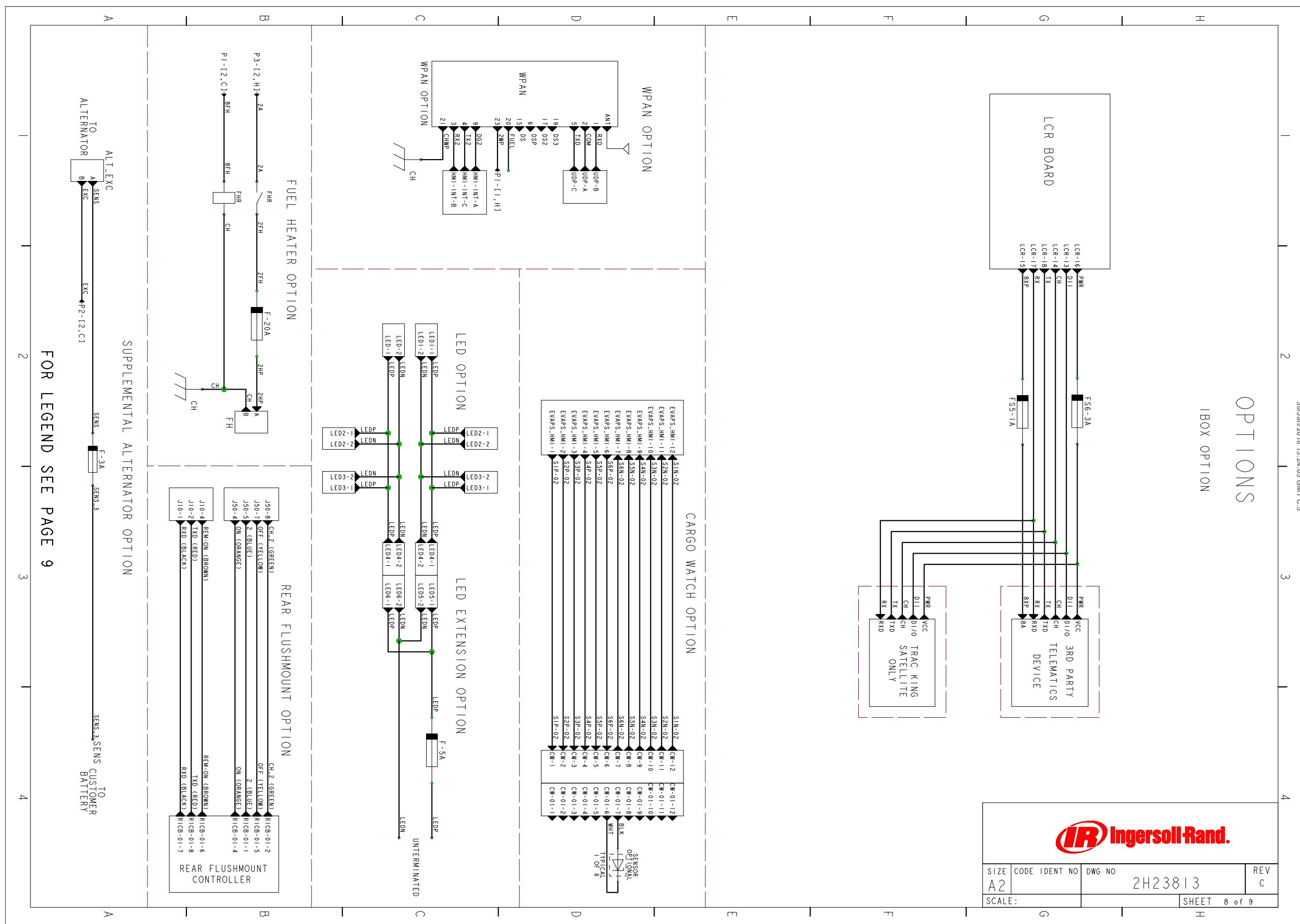


Figure 62. S-610DE Schematic Diagram 2H23813 (Sheet 9 of 9)

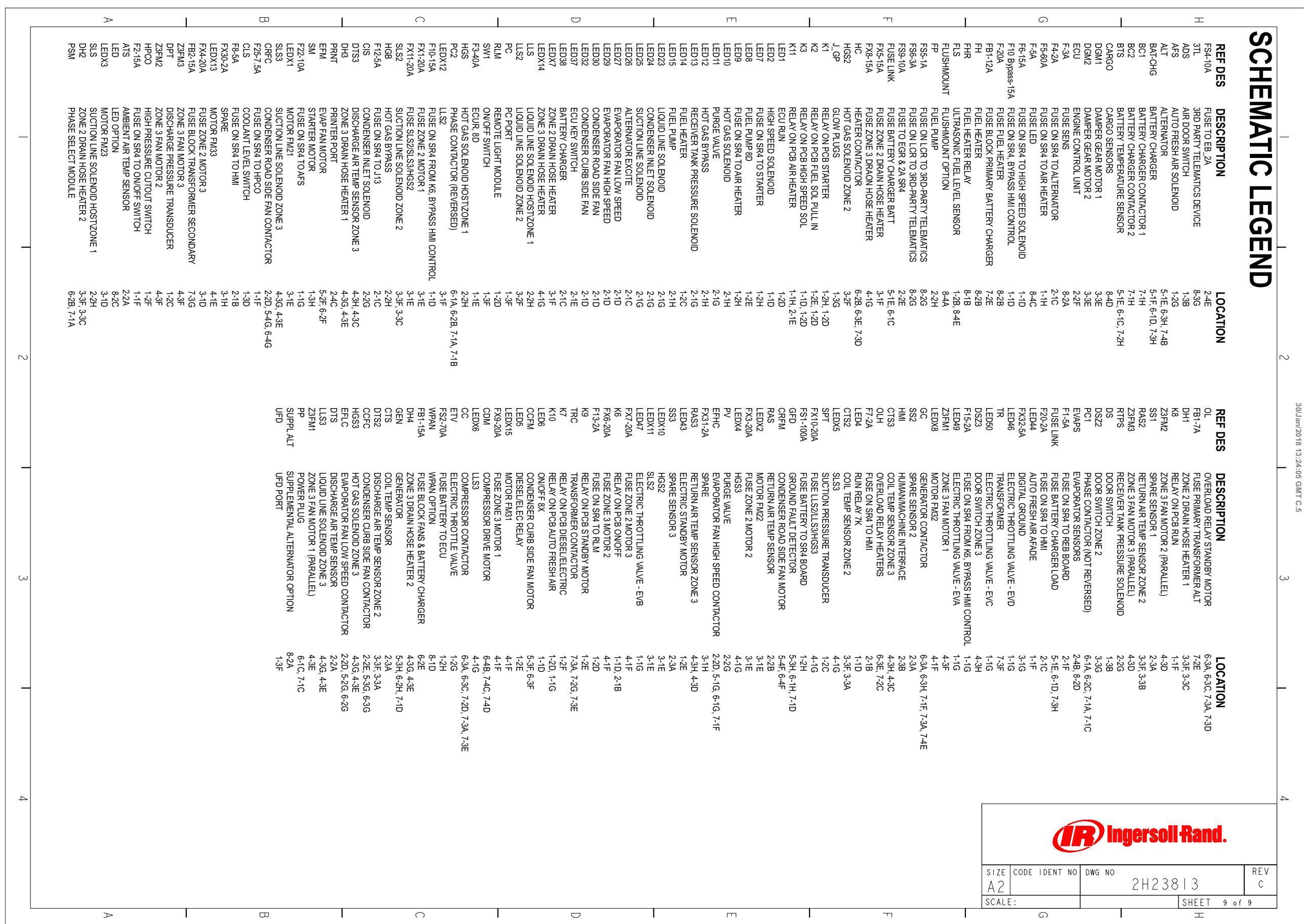


Figure 63. S-610DE Wiring Diagram 2H23814 (Sheet 1 of 9)

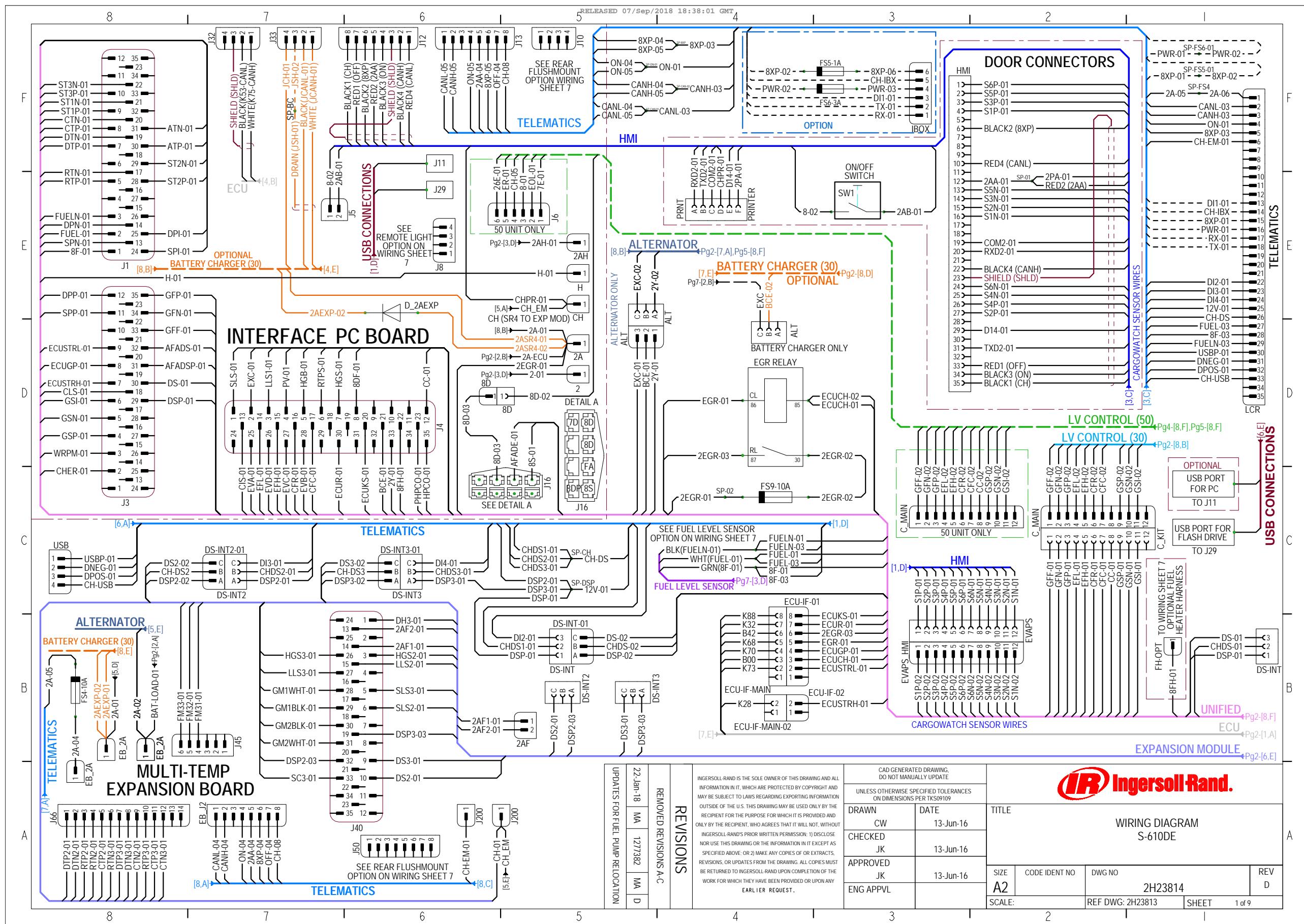


Figure 64. S-610DE Wiring Diagram 2H23814 (Sheet 2 of 9)

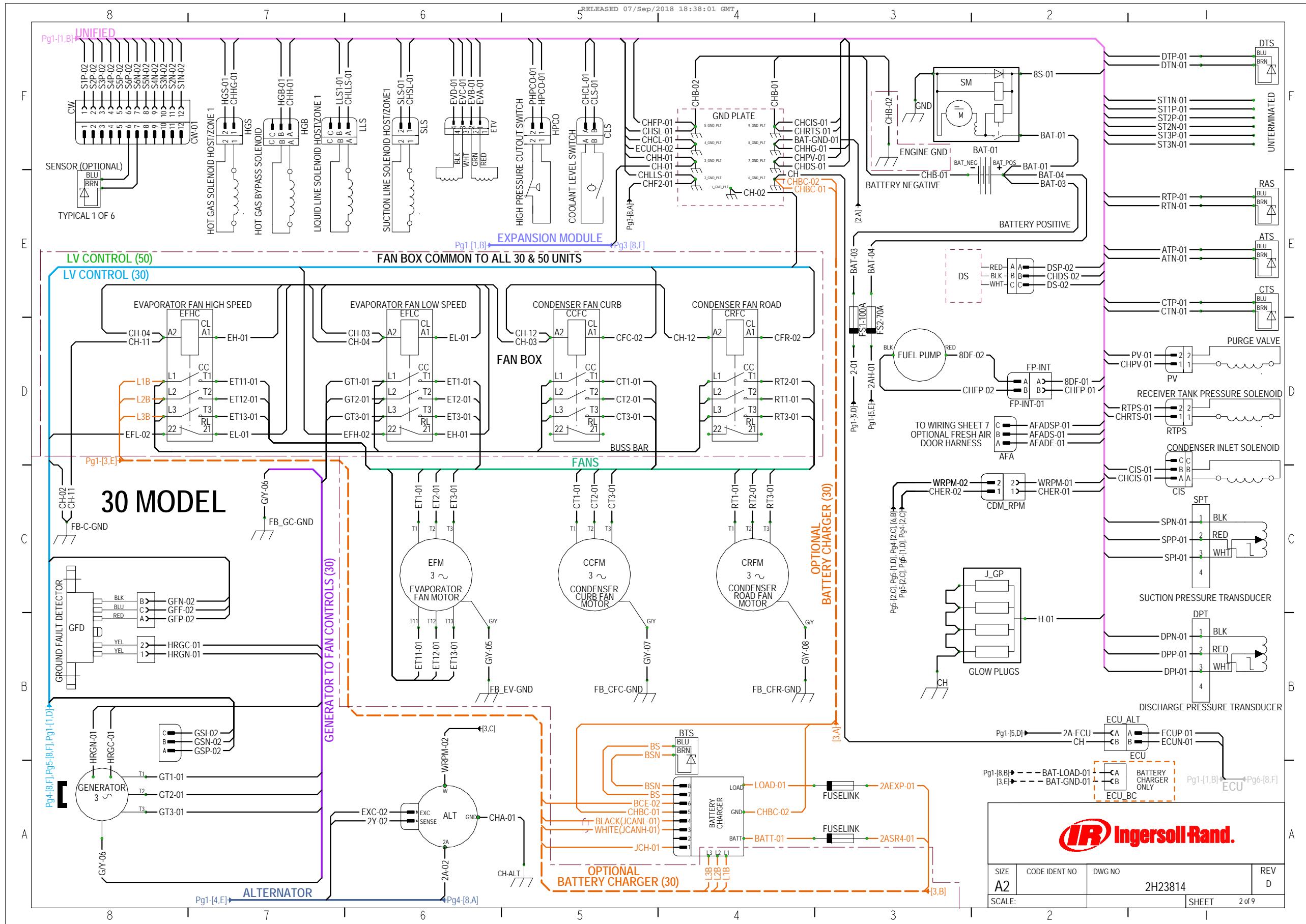
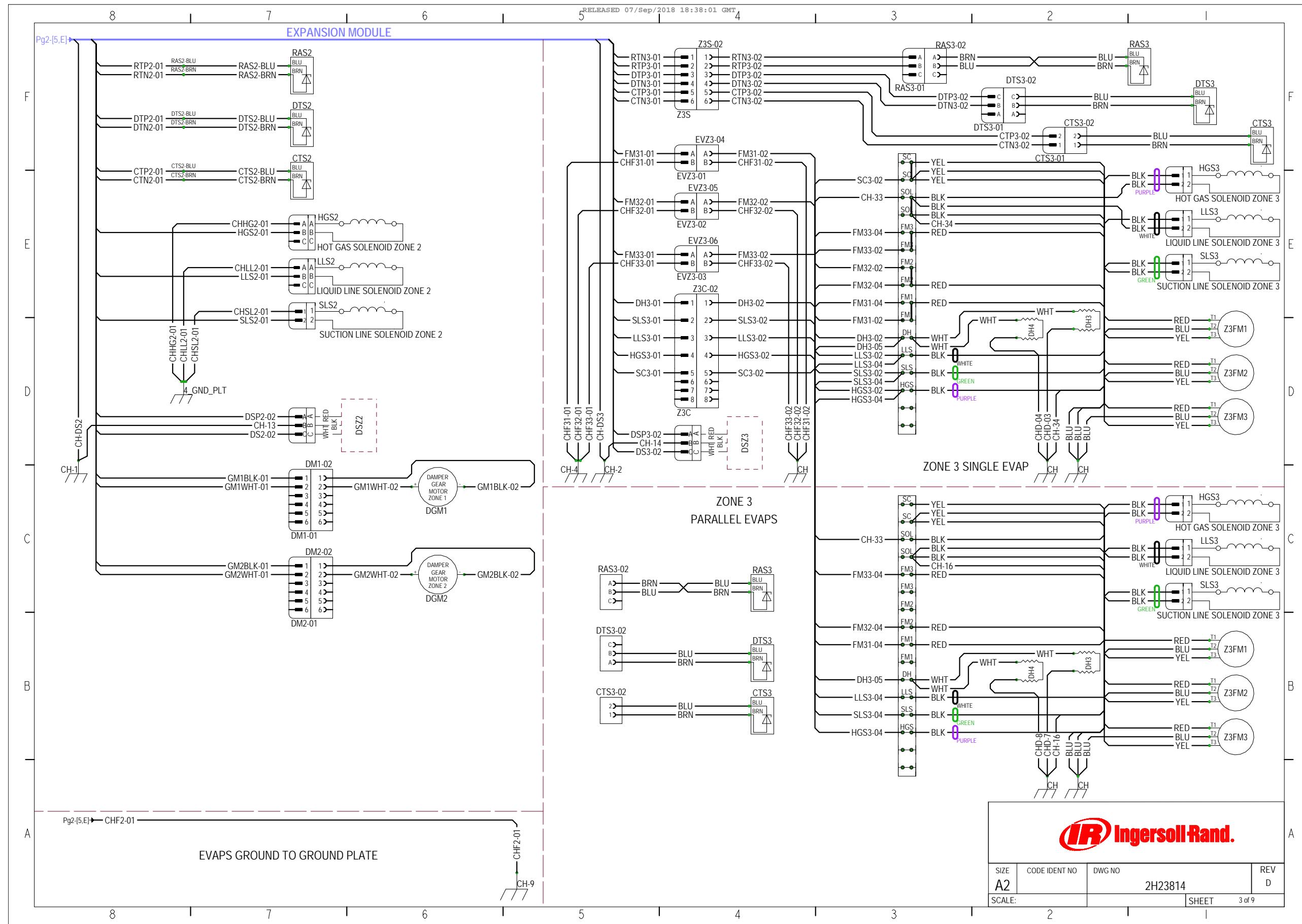


Figure 65. S-610DE Wiring Diagram 2H23814 (Sheet 3 of 9)



**Figure 66. S-610DE Wiring Diagram 2H23814 (Sheet 4 of 9)**

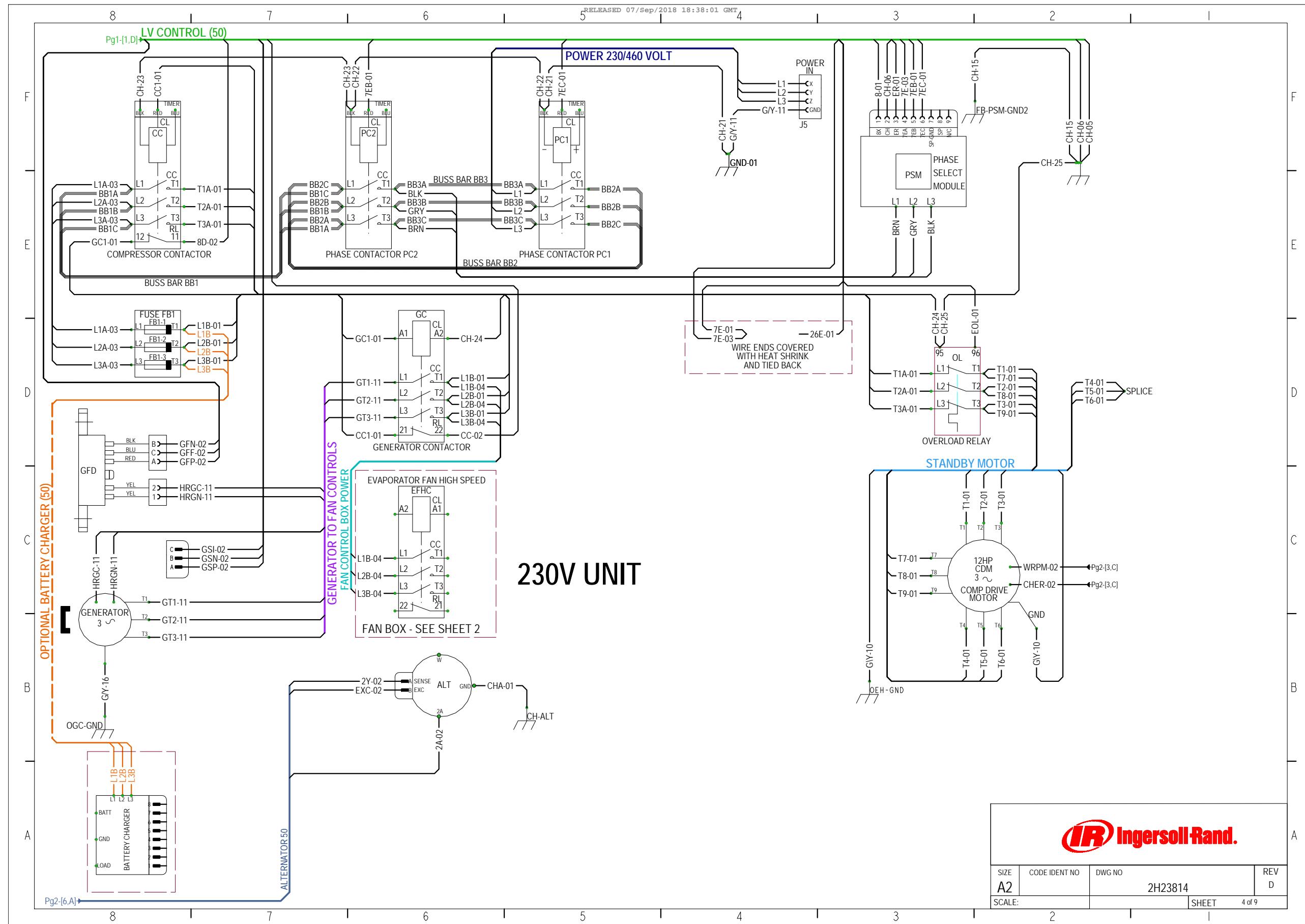
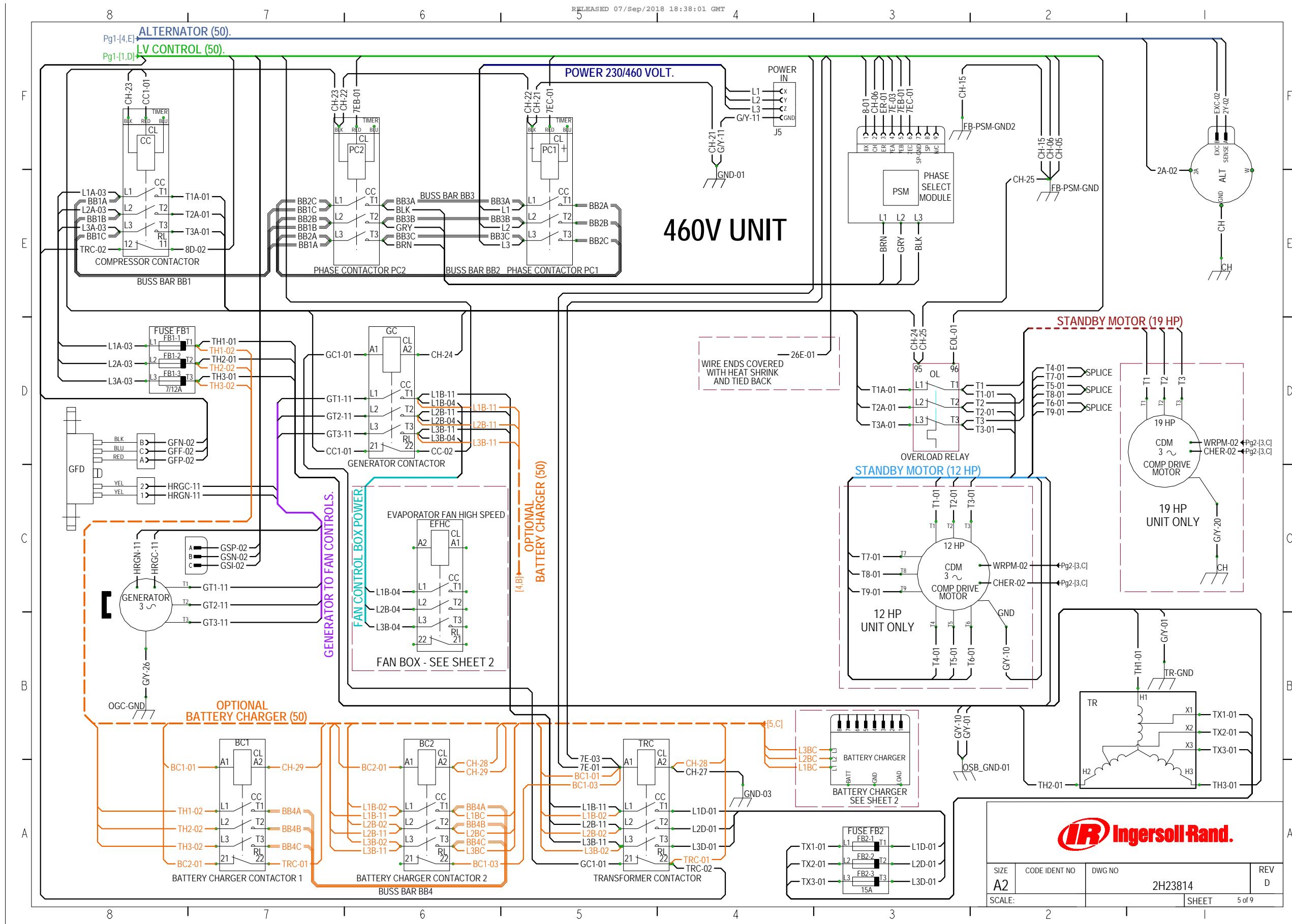


Figure 67. S-610DE Wiring Diagram 2H23814 (Sheet 5 of 9)



**Figure 68. S-610DE Wiring Diagram 2H23814 (Sheet 6 of 9)**

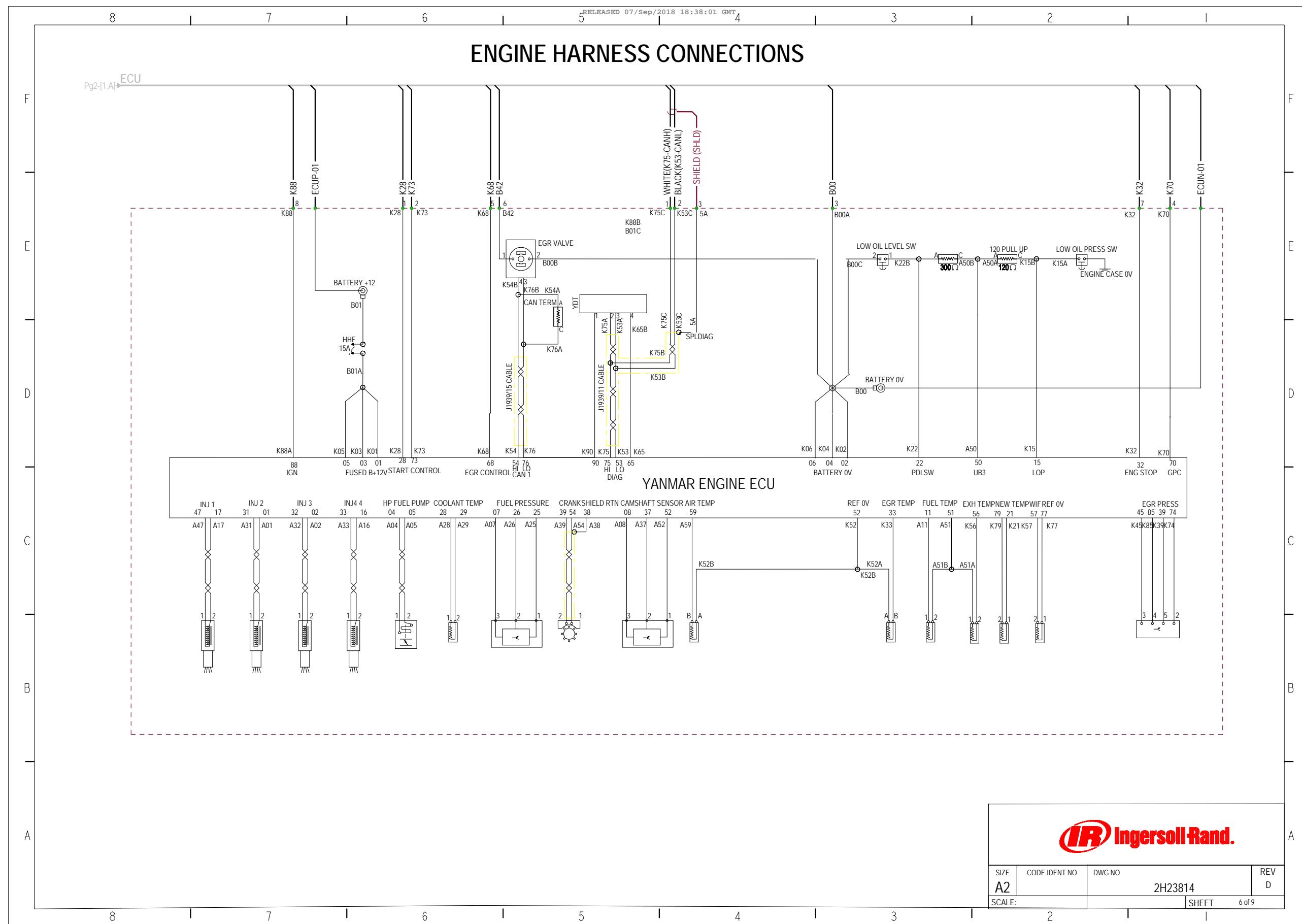


Figure 69. S-610DE Wiring Diagram 2H23814 (Sheet 7 of 9)

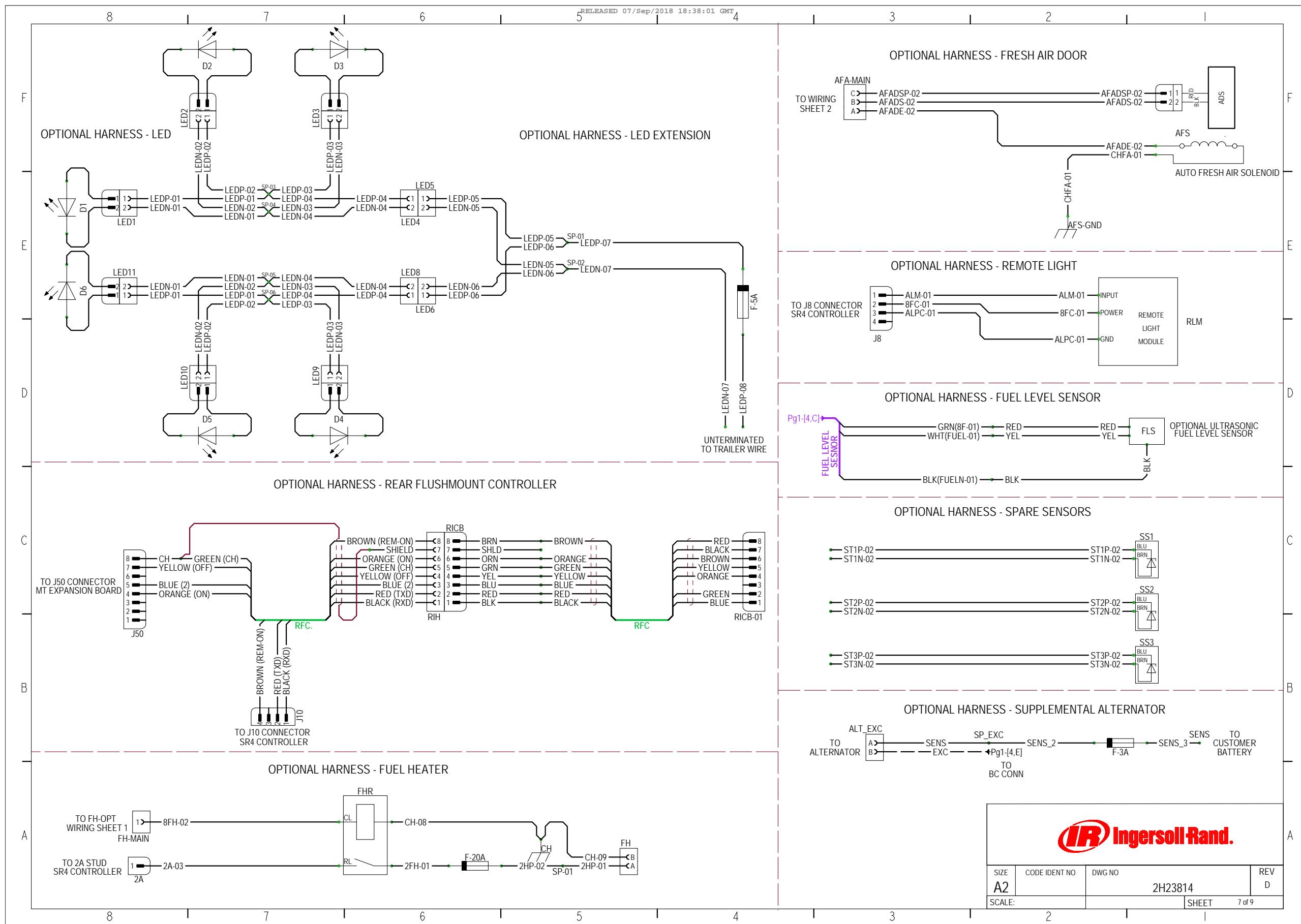
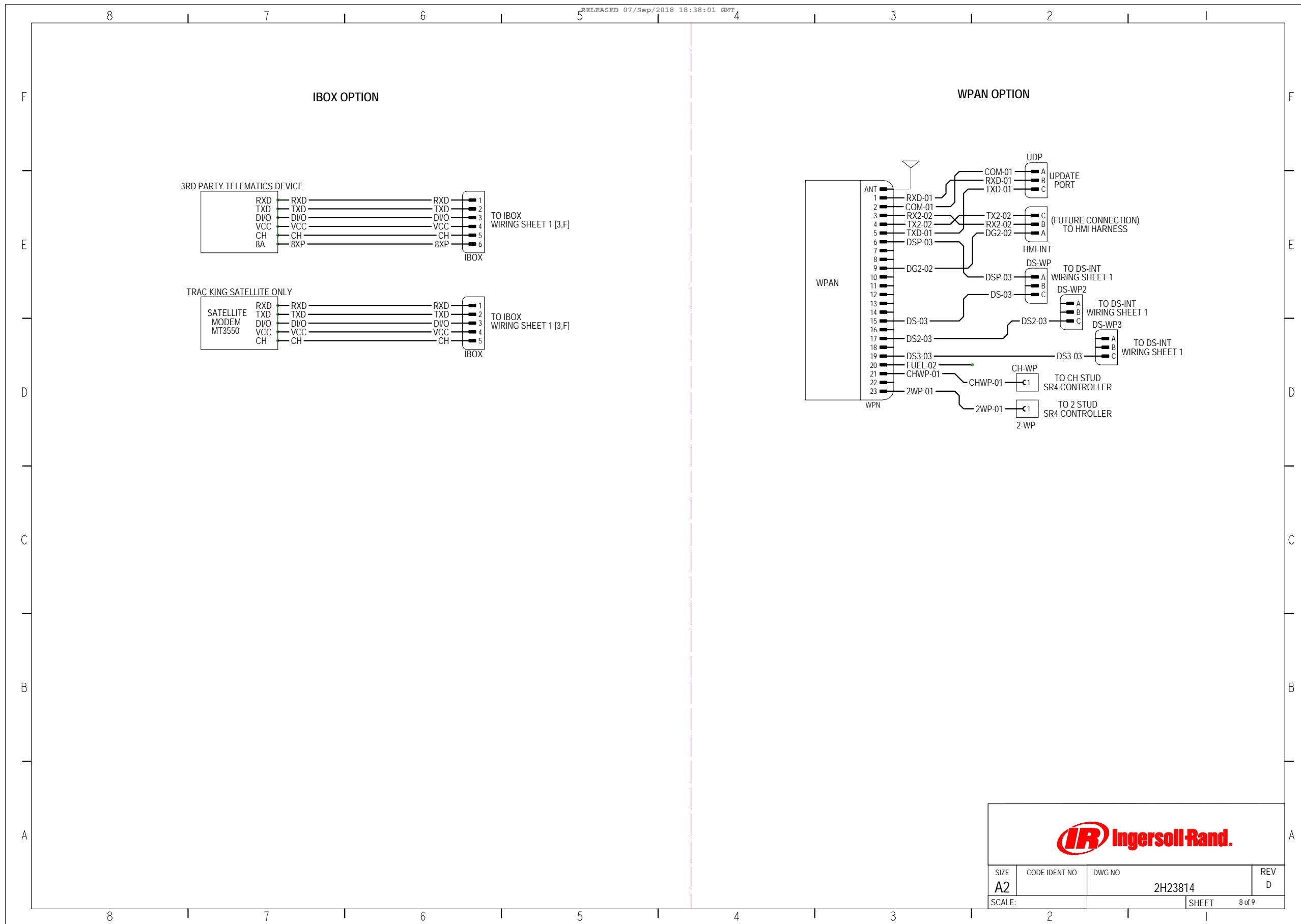


Figure 70. S-610DE Wiring Diagram 2H23814 (Sheet 8 of 9)



**Figure 71. S-610DE Wiring Diagram 2H23814 (Sheet 9 of 9)**

Figure 72. S-610M Schematic Diagram 1H99103 (Sheet 1 of 9)

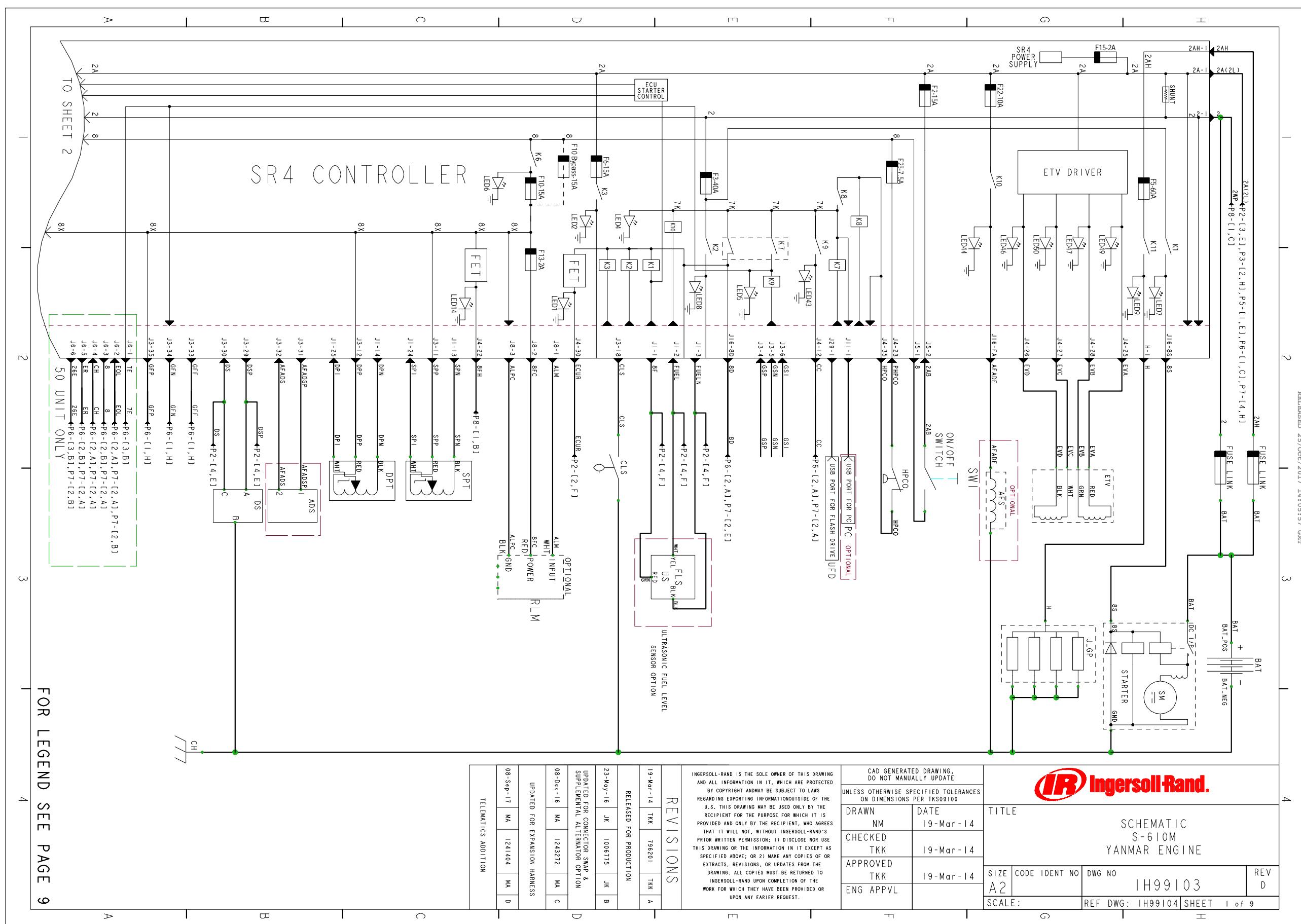


Figure 73. S-610M Schematic Diagram 1H99103 (Sheet 2 of 9)

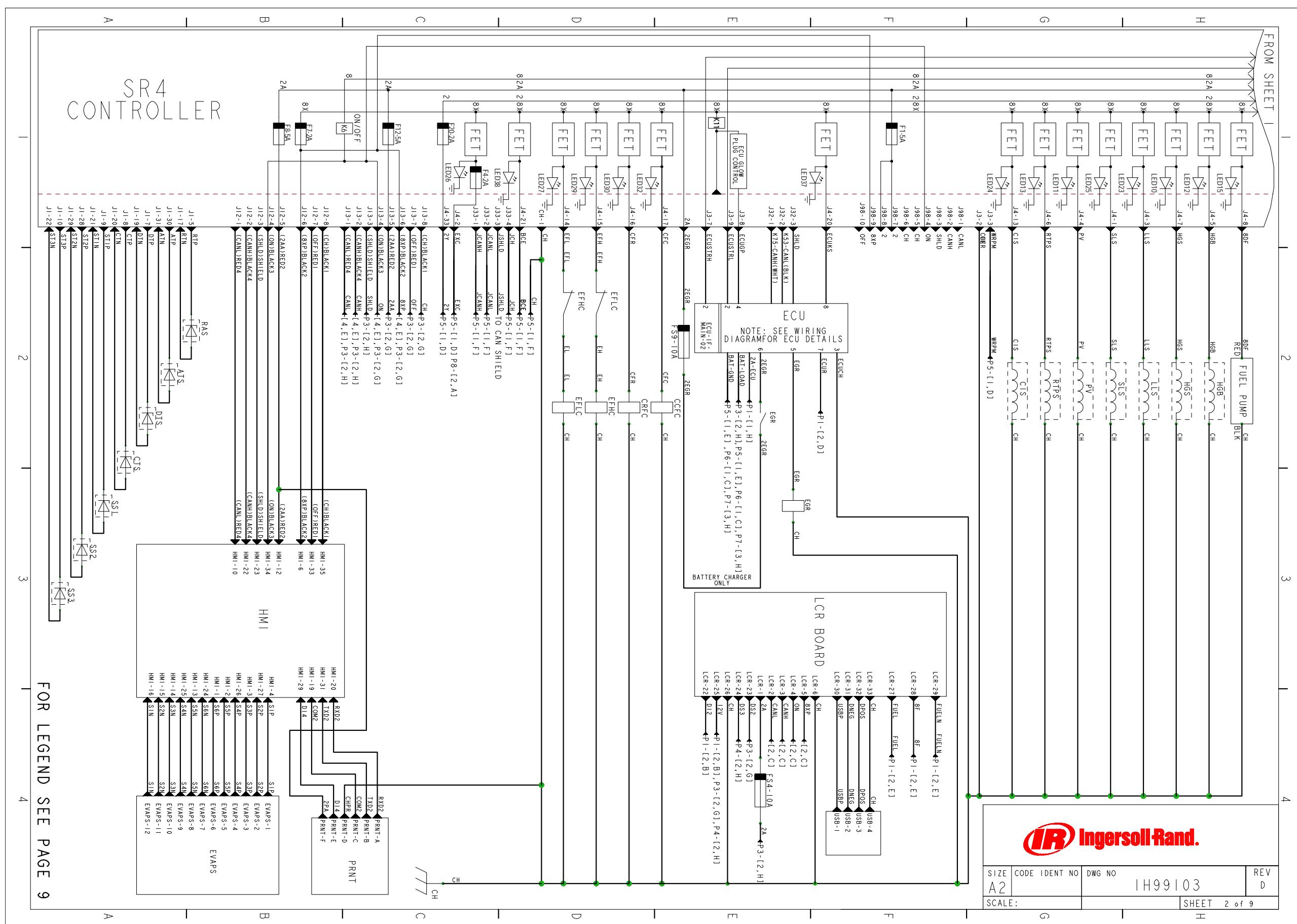


Figure 74. S-610M Schematic Diagram 1H99103 (Sheet 3 of 9)

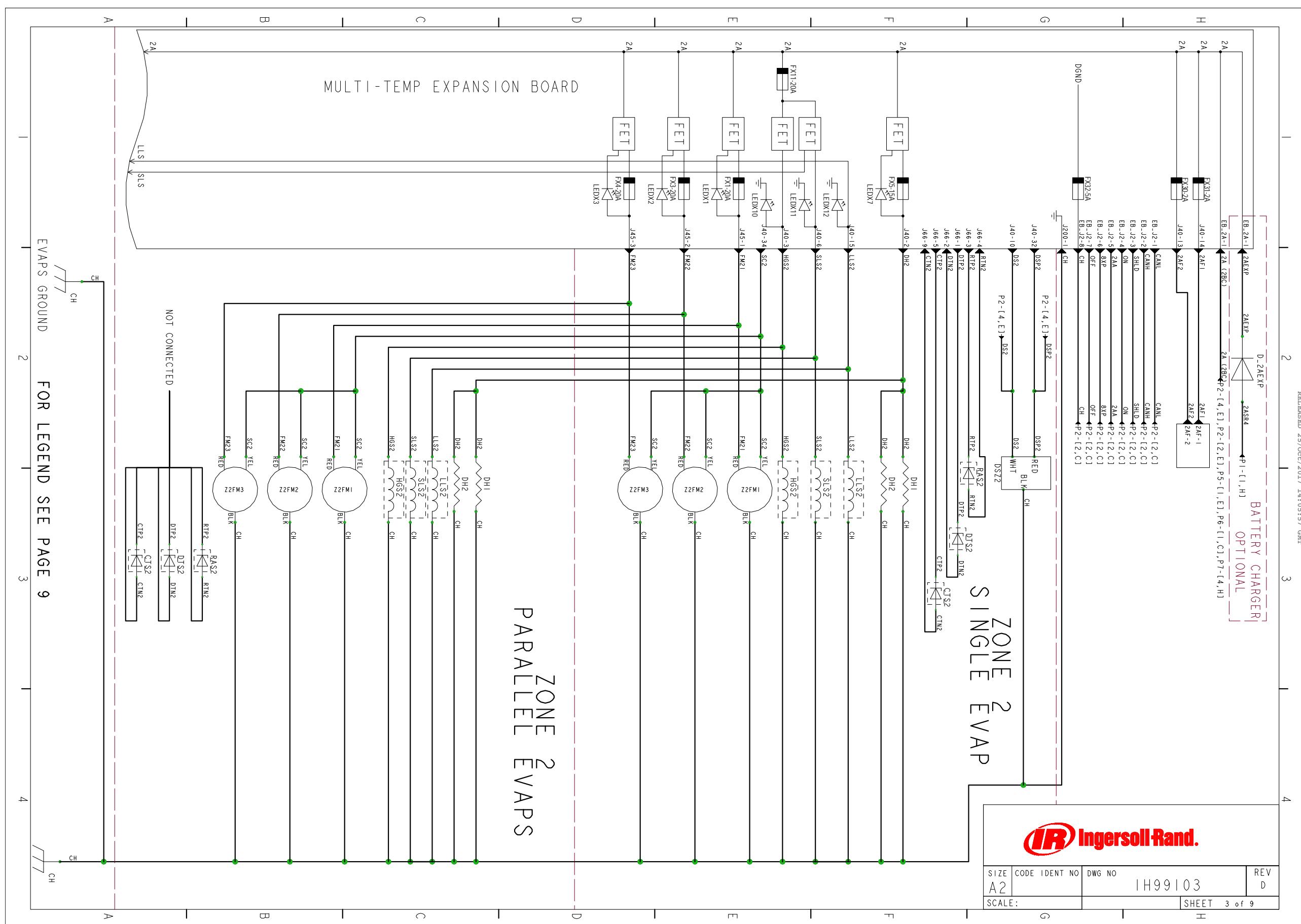


Figure 75. S-610M Schematic Diagram 1H99103 (Sheet 4 of 9)

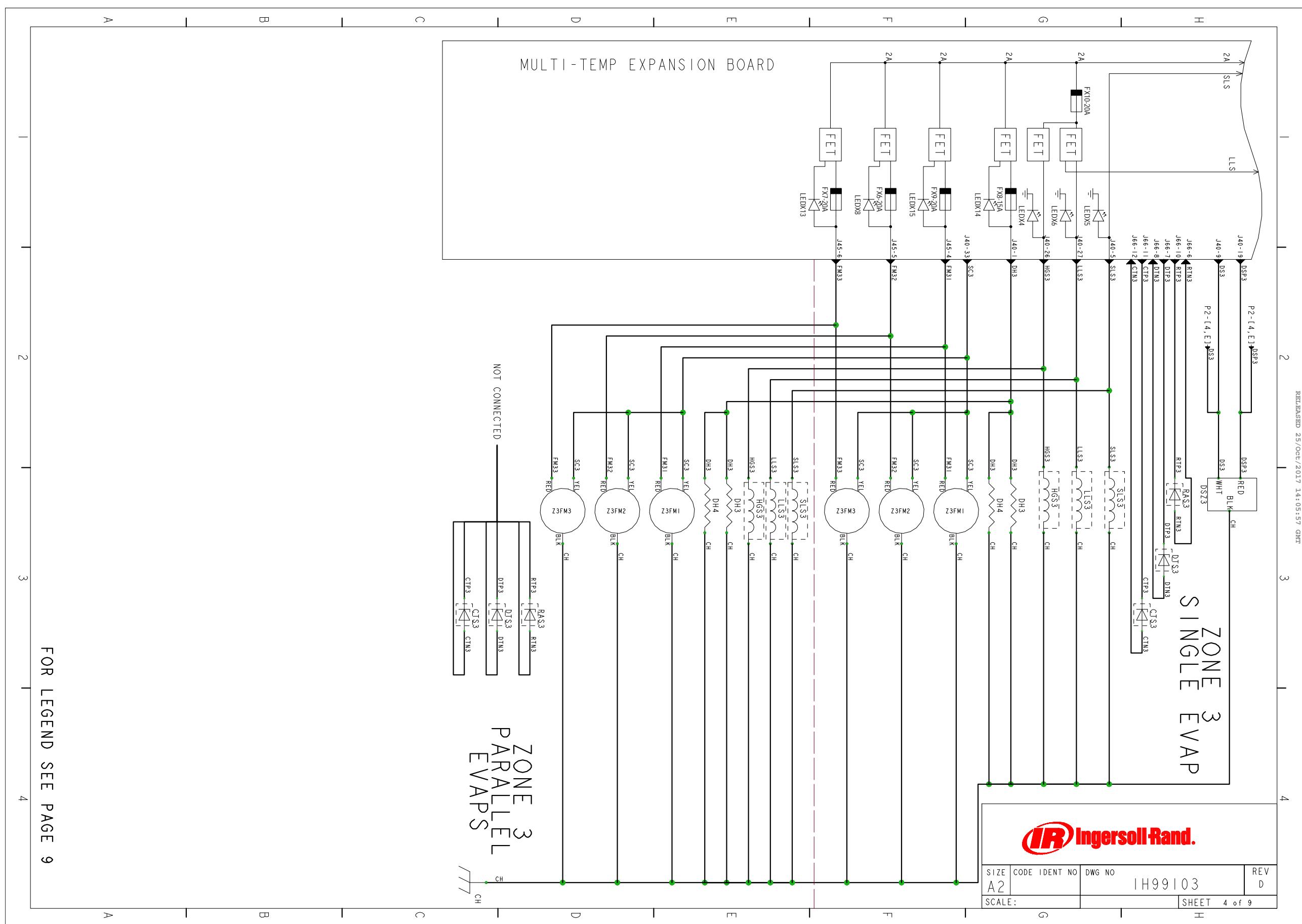
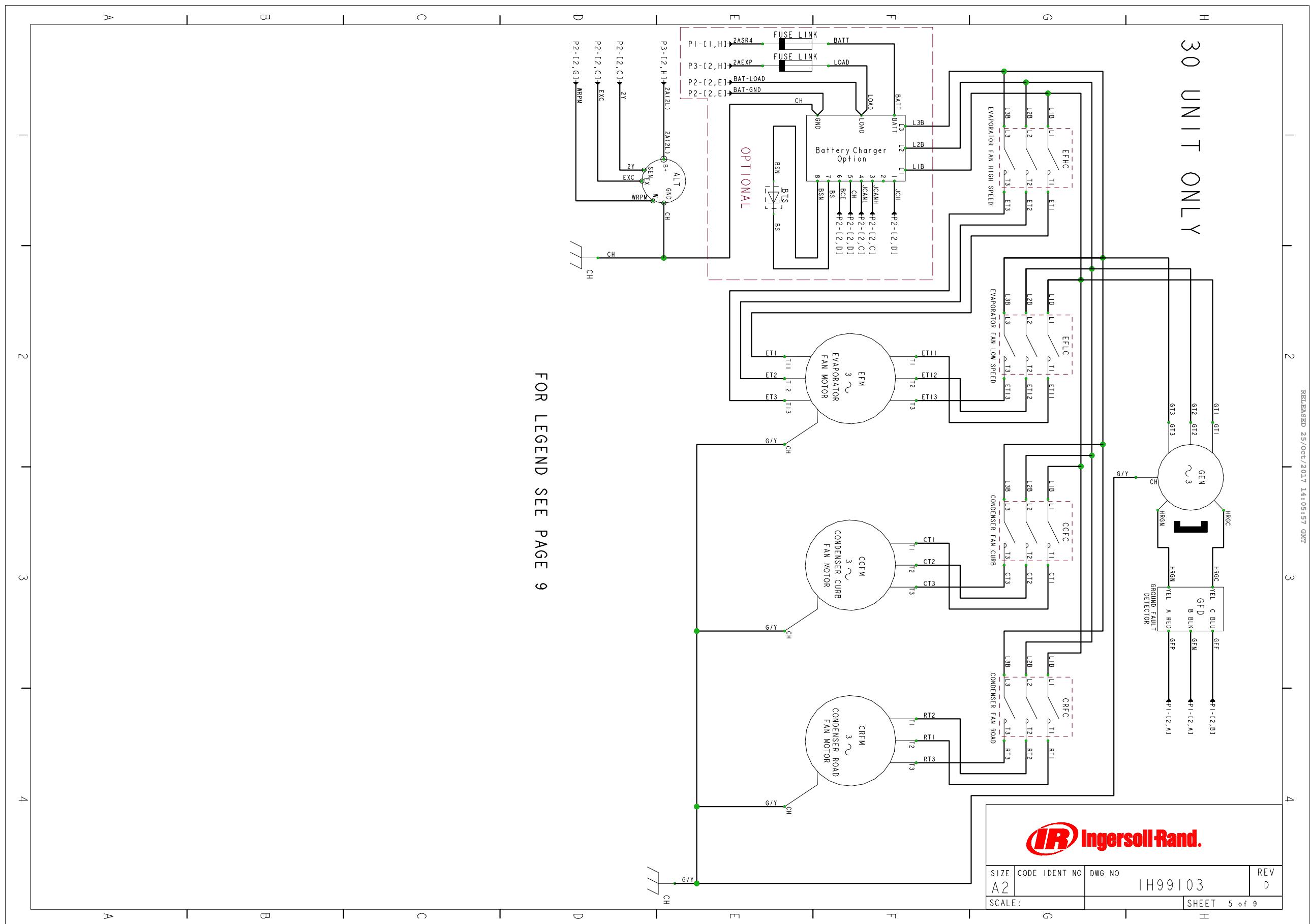
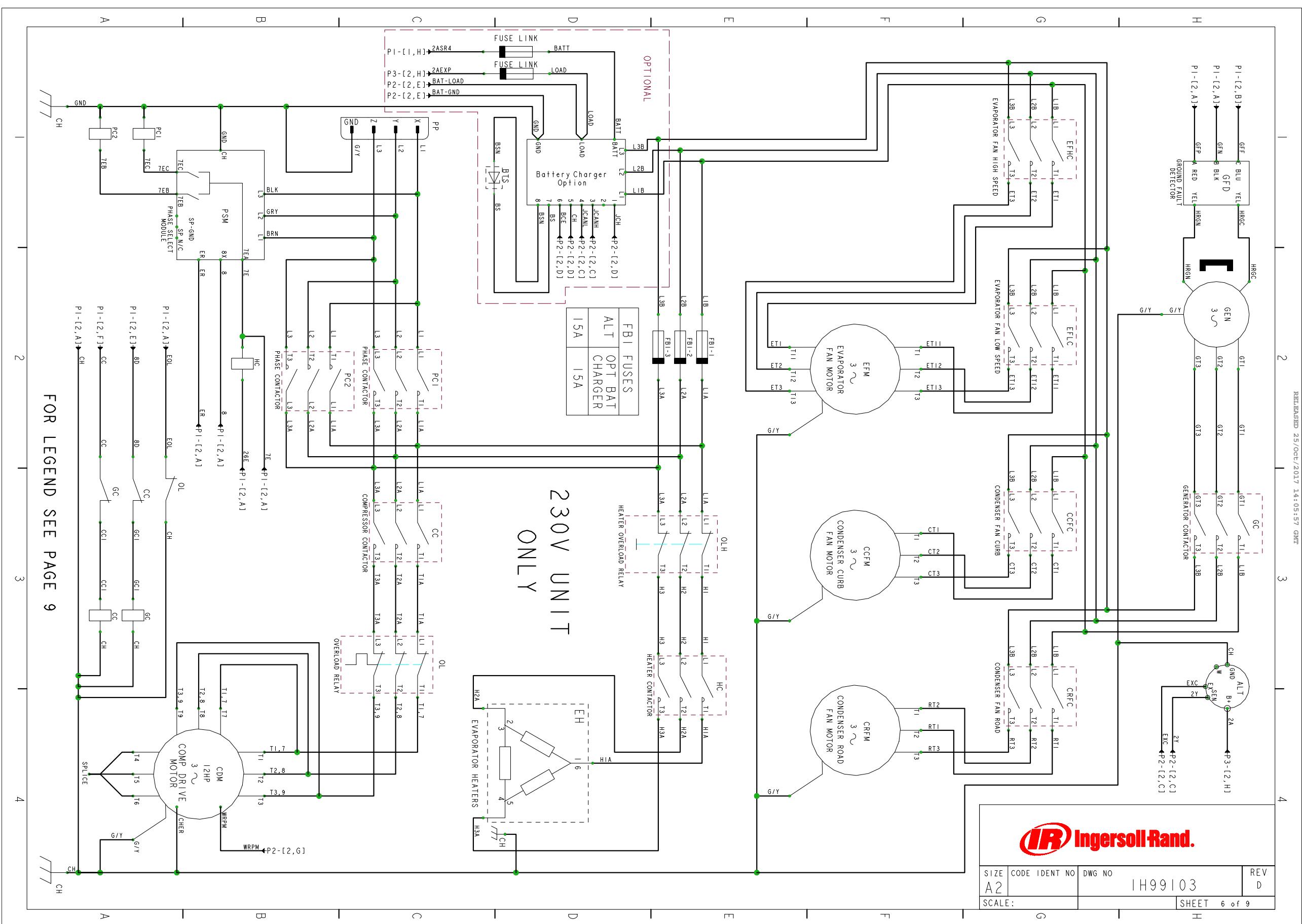


Figure 76. S-610M Schematic Diagram 1H99103 (Sheet 5 of 9)



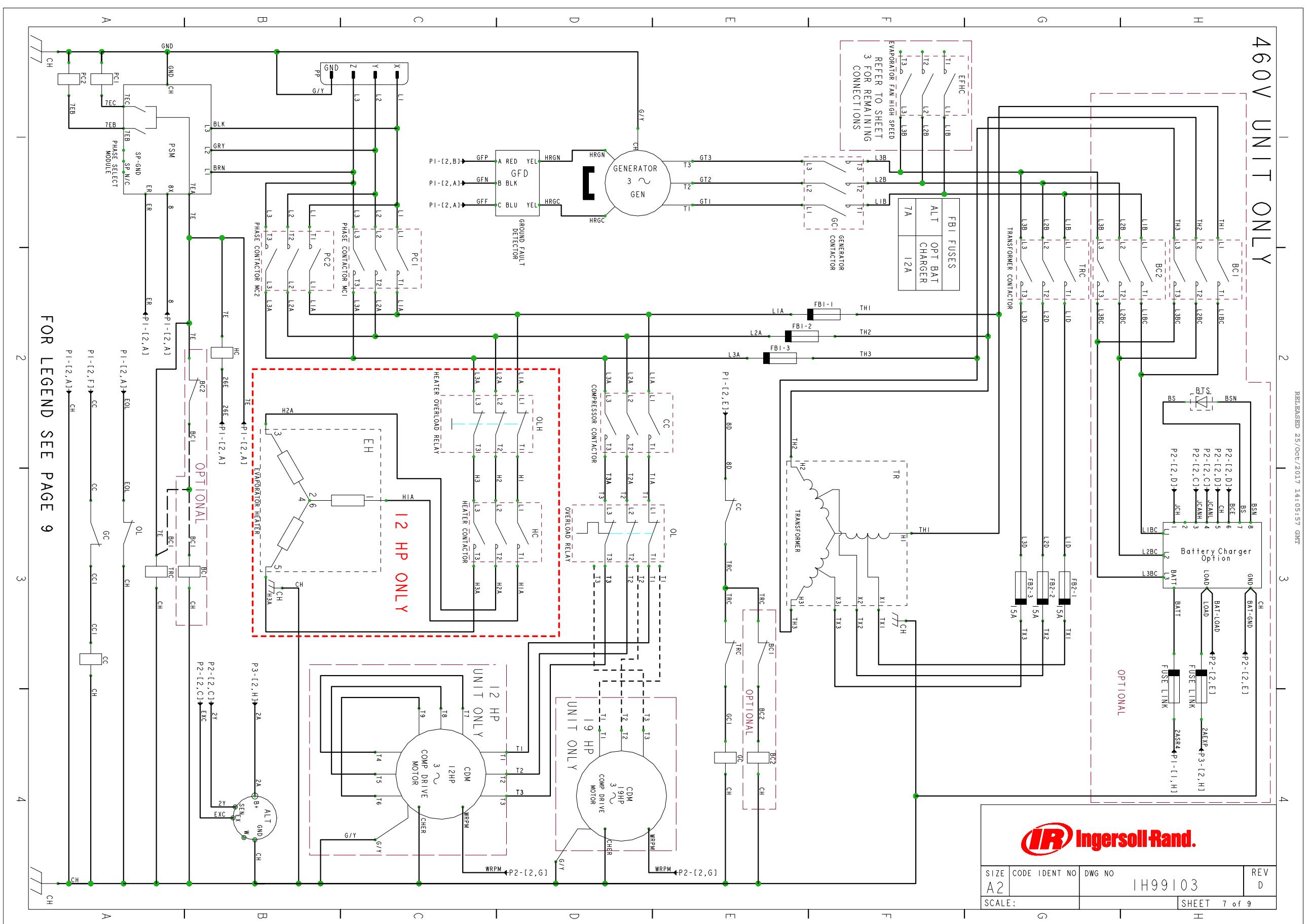
FOR LEGEND SEE PAGE 9

**Figure 77. S-610M Schematic Diagram 1H99103 (Sheet 6 of 9)**



TK 56709-2-DM-EN

**Figure 78. S-610M Schematic Diagram 1H99103 (Sheet 7 of 9)**



**Figure 79. S-610M Schematic Diagram 1H99103 (Sheet 8 of 9)**

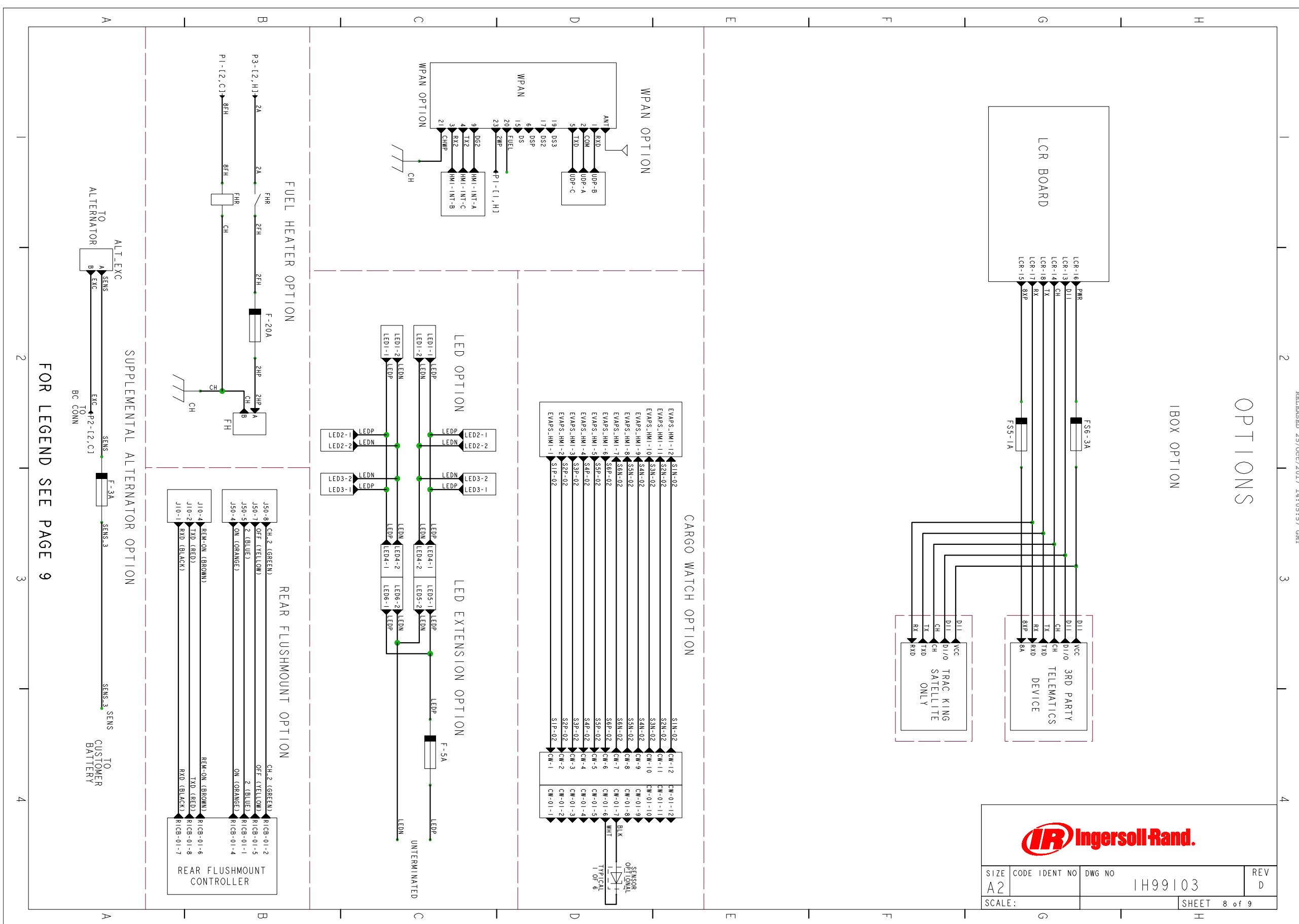


Figure 80. S-610M Schematic Diagram 1H99103 (Sheet 9 of 9)

Schematic Legend		REF DES		DESCRIPTION		LOCATION		REF DES		DESCRIPTION		LOCATION	
A		3TL		3RD PARTY TELEMATICS DEVICE		8-3G		K8		RELAY ON PCB RUN		1-1F	
B		ADS		AIR DOOR SWITCH		1-3B		K9		RELAY ON PCB STANDBY MOTOR		1-2E	
C		AFS		AUTO FRESH AIR SOLENOID		1-2G		K10		RELAY ON PCB AUTO FRESHAIR		1-2D, 1-1G	
D		ALT		ALTERNATOR		5-1E	6-3H, 7-4B	K11		RELAY ON PCB AIR HEATER		1-1H, 2-1E	
E		ATS		AMBIENT AIR TEMP SENSOR		2-2A		K12		LED OPTION		8-2C	
F		BAT-CHG		BATTERY CHARGER		5-1F	6-1D, 7-3H	LED1		ECU RUN		1-2D	
G		BC1		BATTERY CHARGER CONTACTOR 1		7-1H		LED2		HIGH SPEED SOLENOID		1-10	
H		BC2		BATTERY CHARGER CONTACTOR 2		7-1H		LED4		RUN RELAY 7K		1-10	
I		BTS		BATTERY TEMPERATURE SENSOR		5-1E, 6-1C, 7-2H		LED5		DIESEL/ELECTRIC RELAY		1-2E	
J		CARGO		CARGO SENSORS		4-3A, 8-3E		LED6		ON/OFF 8X		1-1D	
K		CC		COMPRESSOR CONTACTOR		6-3A, 6-3C, 7-2D, 7-3A, 7-3E		LED7		FUSE ON SR4 TO STARTER		1-2H	
L		CCC		CONDENSER CURB SIDE FAN CONTACTOR		2-2E, 5-3G, 6-3G		LED8		FUSE ON SR4 TO REB BOARD		1-2E	
M		CRM		CONDENSER CURB SIDE FAN MOTOR		5-3F, 6-3G, 6-3G		LED9		PRE-HEAT RELAY		1-2H	
N		CTS		COOL TEMP SENSOR		2-2A		LED10		HOT GAS SOLENOID		2-1H	
O		CTS2		COOL TEMP SENSOR ZONE 2		3-3F, 3-3A		LED23		PURGE VALVE		2-1G	
P		CTSS3		COOL TEMP SENSOR ZONE 3		4-3H, 4-3C		LED24		HOT GAS BYPASS		2-1H	
Q		DH1		ZONE 2 DRAIN HOSE HEATER 1		3-3F, 3-3C		LED25		RECEIVE TANK PRESSURE SOLENOID		2-1G	
R		DH2		ZONE 2 DRAIN HOSE HEATER 2		3-3F, 3-3C		LED26		FUEL HEATER		1-2C	
S		DH3		ZONE 3 DRAIN HOSE HEATER 1		4-3G, 4-3E		LED27		FUEL PUMP		2-1H	
T		DH4		ZONE 3 DRAIN HOSE HEATER 2		4-3G, 4-3E		LED29		LIQUID LINE SOLENOID		2-1G	
U		DPT		DISCHARGE PRESSURE TRANSDUCER		1-2C		LED30		CONDENSER INLET SOLENOID		2-1G	
V		DS		DOOR SWITCH		1-3B		LED32		CONDENSER ROAD SIDE FAN		2-1D	
W		DS22		DOOR SWITCH/ZONE 2		3-3G		LED37		CONDENSER CURB SIDE FAN		2-1D	
X		DS23		DISCHARGE AIR TEMP SENSOR		4-3H		LED38		ECU KEY SWITCH		2-1C	
Y		DT5		DISCHARGE AIR TEMP SENSOR ZONE 2		2-2A		LED43		BATTERY CHARGER		2-1C	
Z		DIS2		DISCHARGE AIR TEMP SENSOR ZONE 3		3-3F, 3-3A		LED44		ELECTRIC STANDBY MOTOR		1-2E	
AA		DIS3		DISCHARGE AIR TEMP SENSOR ZONE 3		4-3H, 4-3C		LED46		AUTO FRESH AIR AFAD		1-1F	
AB		ECU		ENGINE CONTROL UNIT		2-2F		LED47		ELECTRIC THROTTLING VALVE - EVD		1-1G	
AC		EFHC		EVAPORATOR FAN HIGH SPEED CONTACTOR		2-2D, 5-1G, 6-1G, 7-1F		LED49		ELECTRIC THROTTLING VALVE - EVA		1-1G	
AD		EFC		EVAPORATOR FAN LOW SPEED CONTACTOR		2-2D, 5-2G, 6-2G		LED50		ELECTRIC THROTTLING VALVE - EVC		1-1G	
AE		EFM		EVAPORATOR FAN MOTOR		2-3E		LEDX1		MOTOR FM21		2-1D	
AF		EGR		EGR RELAY		6-4D, 7-3B		LEDX2		MOTOR FM22		3-1E	
AG		EH		EVAPORATOR HEATERS		6-4G, 8-2D		LEDX3		MOTOR FM23		3-1D	
AH		ETV		EVAPORATOR THROTTLE VALVE		2-4B, 8-2D		LEDX4		HGS		4-1G	
AI		EVAPS		EVAPORATOR SENSORS		2-4C		LEDX5		LLS2		4-1G	
AJ		F1-5A		FUSE ON SR4 TO REB BOARD		1-1F		LEDX6		LLS3		4-1G	
AK		F2-15A		FUSE ON SR4 TO SR4 TO ON/OFF SWITCH		2-1C		LEDX7		ZONE 2 DRAIN HOSE HEATER		3-1F	
AL		F3-40A		FUSE SENS.		1-1E		LEDX8		MOTOR FM32		4-1F	
AM		F4-2A		FUSE ON SR4 TO ALTERNATOR		8-2A		LEDX10		OLH		3-1E	
AN		F5-60A		FUSE ON SR4 TO AIR HEATER		2-1C		LEDX11		HGS2		3-1E	
AO		F6-15A		FUSE LED		1-1H		LEDX12		LLS2		3-1F	
AP		F7-2A		FUSE ON SR4 TO HIGH SPEED SOLENOID		8-4C		LEDX13		MOTOR FM33		4-1F	
AQ		F8-5A		FUSE ON SR4 TO HFM		1-1D		LEDX14		ZONE 3 DRAIN HOSE HEATER		4-1G	
AR		F10-15A		FUSE ON SR4 BYPASS HMI CONTROL		2-1B		LEDX15		MOTOR FM31		4-1G	
AS		F12-5A		FUSE ON SR4 FROM K6, BYPASS HMI CONTROL		1-1D		LS1		LIQUID LINE SOLENOID HOST ZONE 1		2-2H	
AT		F13-2A		FUSE ON SR4 TO RLM		1-1D		LS2		LIQUID LINE SOLENOID HOST ZONE 2		3-3F	
AU		F15-2A		FUSE ON SR4 FROM K6, BYPASS HMI CONTROL		1-1G		LS3		LIQUID LINE SOLENOID HOST ZONE 3		4-3G, 4-3E	
AV		F20-2A		FUSE BLOCK PRIMARY BATTERY CHARGER		2-1C		OLH		OVERLOAD RELAY HEATERS		6-3A, 6-3C, 7-3D	
AW		F21-15A		FUSE BLOCK FAN & BATTERY CHARGER		6-1A		PC PORT		PC PORT		6-3E, 7-2C	
AX		F22-10A		FUSE BLOCK TRANSFORMER SECONDARY		7-3G		PC1		PC1		6-1A, 6-2C, 7-1A, 7-1C	
AY		F25-7,5A		FUSE ON SR4 TO HPCO		1-1G		PC2		PC2		6-1A, 6-2B, 7-1A, 7-1B	
AZ		FH		FUEL HEATER		2-1C		PP		PP		6-1C, 7-1C	
BK		FBI-7A		FUEL HEATER RELAY		7-2E		PRNT		PRINTER PORT		2-4B	
BL		FBR-1,2A		FUSE ON SR4 TO HFM		8-4B		PSM		PSM		6-2B, 7-1A	
BM		FCA-10A		FUSE FLAME PROTECTION		2-2H		RJPS		PURGE VALVE		2-2G	
BN		FCA-20A		FUSE FLAME PROTECTION		2-4E		RAS1		RETURN AIR TEMP SENSOR		2-2B	
BO		FCA-20A		FUSE FLAME PROTECTION		8-2G		RAS2		RETURN AIR TEMP SENSOR ZONE 2		3-3F, 3-3B	
BP		FCA-20A		FUSE FLAME PROTECTION		8-2B		RAS3		RETURN AIR TEMP SENSOR ZONE 3		4-3H, 4-3D	
BP		FCS-3A		FUSE ON LCR TO 3RD-PARTY TELEMATICS		8-2G		REB		REB OPTION		8-2H	
BQ		FEX-20A		FUSE ON LCR BATTERY CHARGER		2-2E		RECEIVER TANK PRESSURE SOLENOID		RECEIVER TANK PRESSURE SOLENOID		1-3D	
BZ		FEX-20A		FUSE ON LCR BATTERY CHARGER		5-1E, 6-1D, 7-3H		SPT		SUCTION LINE SOLENOID HOST ZONE 1		2-2G	
CJ		FEX-20A		FUSE ON LCR BATTERY CHARGER		1-2H		SS1		SUCTION LINE SOLENOID HOST ZONE 2		2-2H	
CP		FEX-20A		FUSE ON LCR BATTERY CHARGER		1-2H		SS2		SUCTION LINE SOLENOID HOST ZONE 3		3-3F, 3-3C	
CR		FEX-20A		FUSE ON LCR BATTERY CHARGER		1-2H		SS3		STARTER MOTOR		4-3G, 4-3E	
CS		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		SM1		REMOTE LIGHT MODULE		6-1A, 6-2C, 7-1A, 7-1C	
CT		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		TCK		RETURN AIR TEMP SENSOR		6-1A, 6-2B, 7-1A, 7-1B	
CU		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		TR		RETURN AIR TEMP SENSOR ZONE 2		6-1C, 7-1C	
CV		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		TRC		RETURN AIR TEMP SENSOR ZONE 3		6-3H, 7-3D	
CW		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		UFD		REMOVAL LIGHT MODULE		6-3E, 7-3F	
DX		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		WPAN		REMOVAL LIGHT MODULE		6-3F, 7-3G	
EX		FEX-20A		FUSE ON LCR BATTERY CHARGER LOAD		5-1E, 6-1D, 7-3H		ZEM1		REMOVAL LIGHT MODULE		6-3G, 7-3H	

Figure 81. S-610M Wiring Diagram 1H99104 (Sheet 1 of 9)

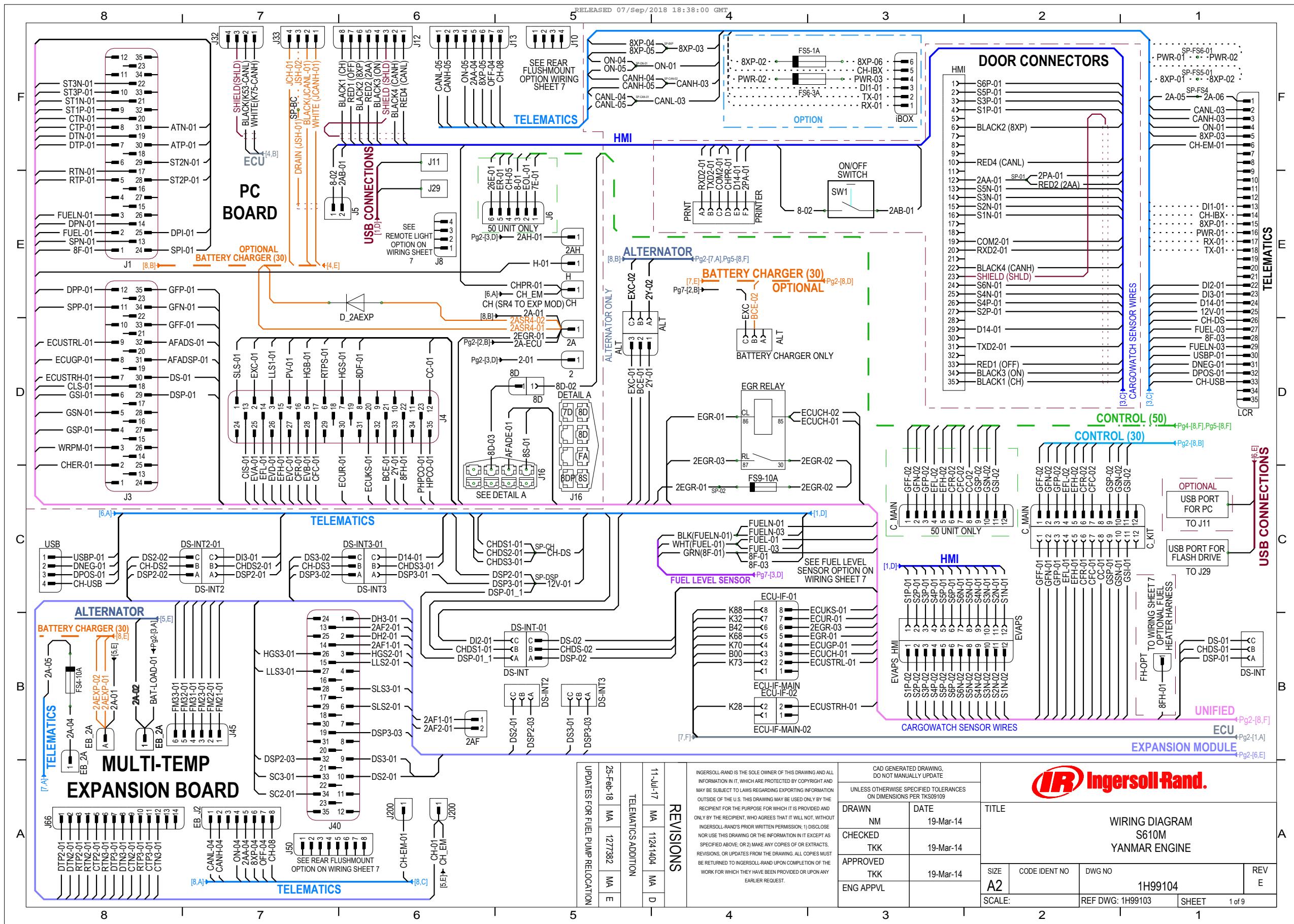


Figure 82. S-610M Wiring Diagram 1H99104 (Sheet 2 of 9)

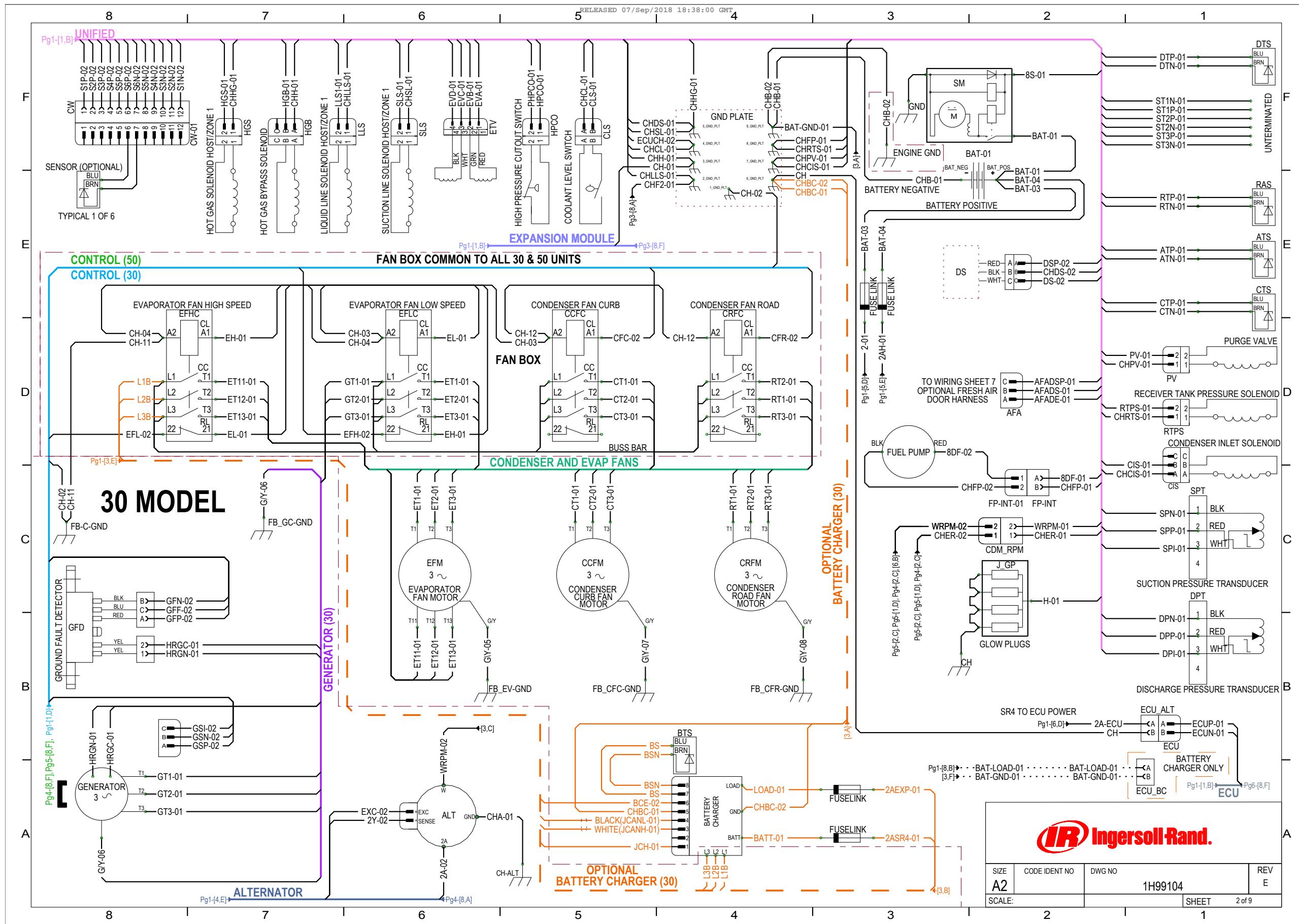


Figure 83. S-610M Wiring Diagram 1H99104 (Sheet 3 of 9)

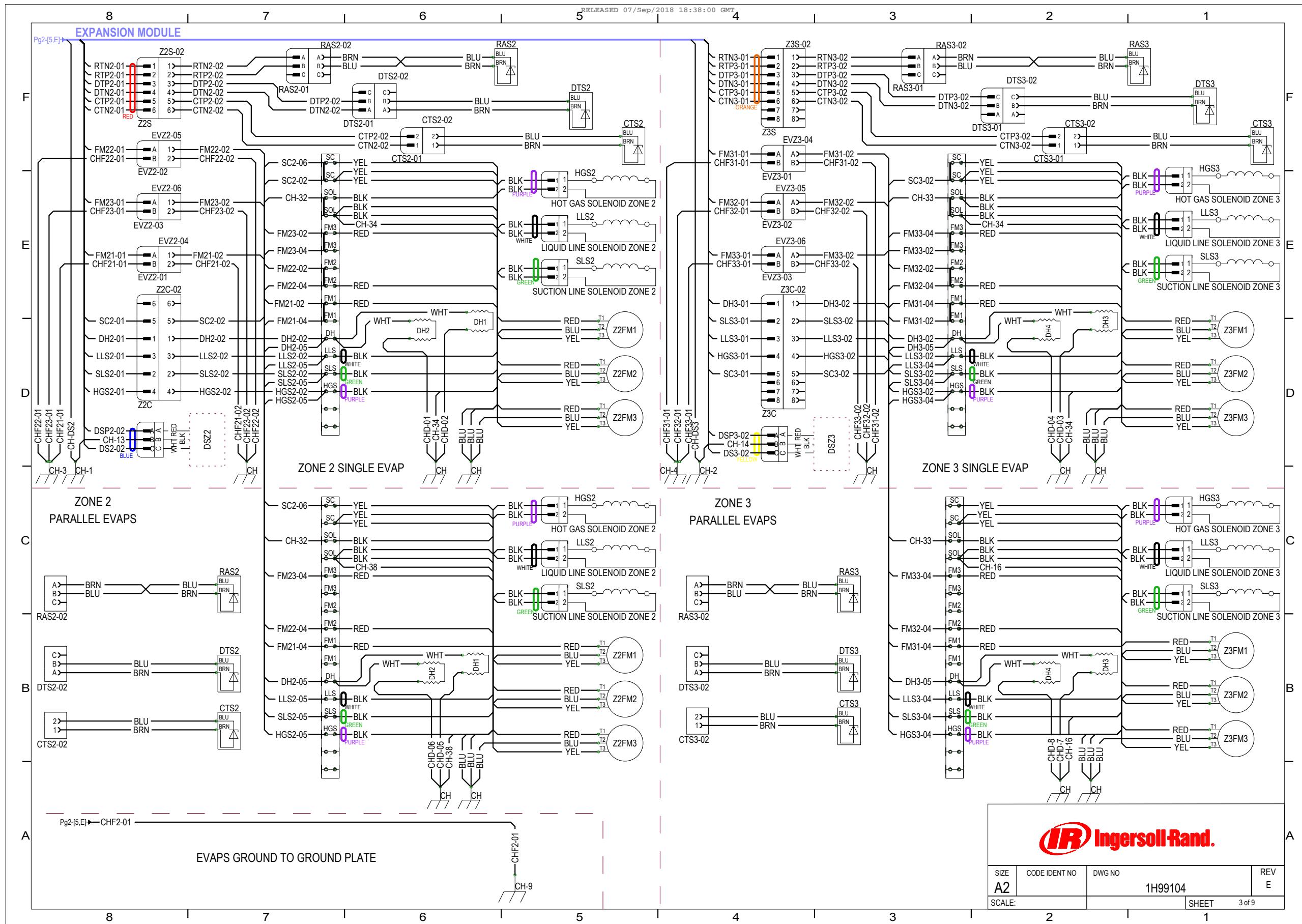


Figure 84. S-610M Wiring Diagram 1H99104 (Sheet 4 of 9)

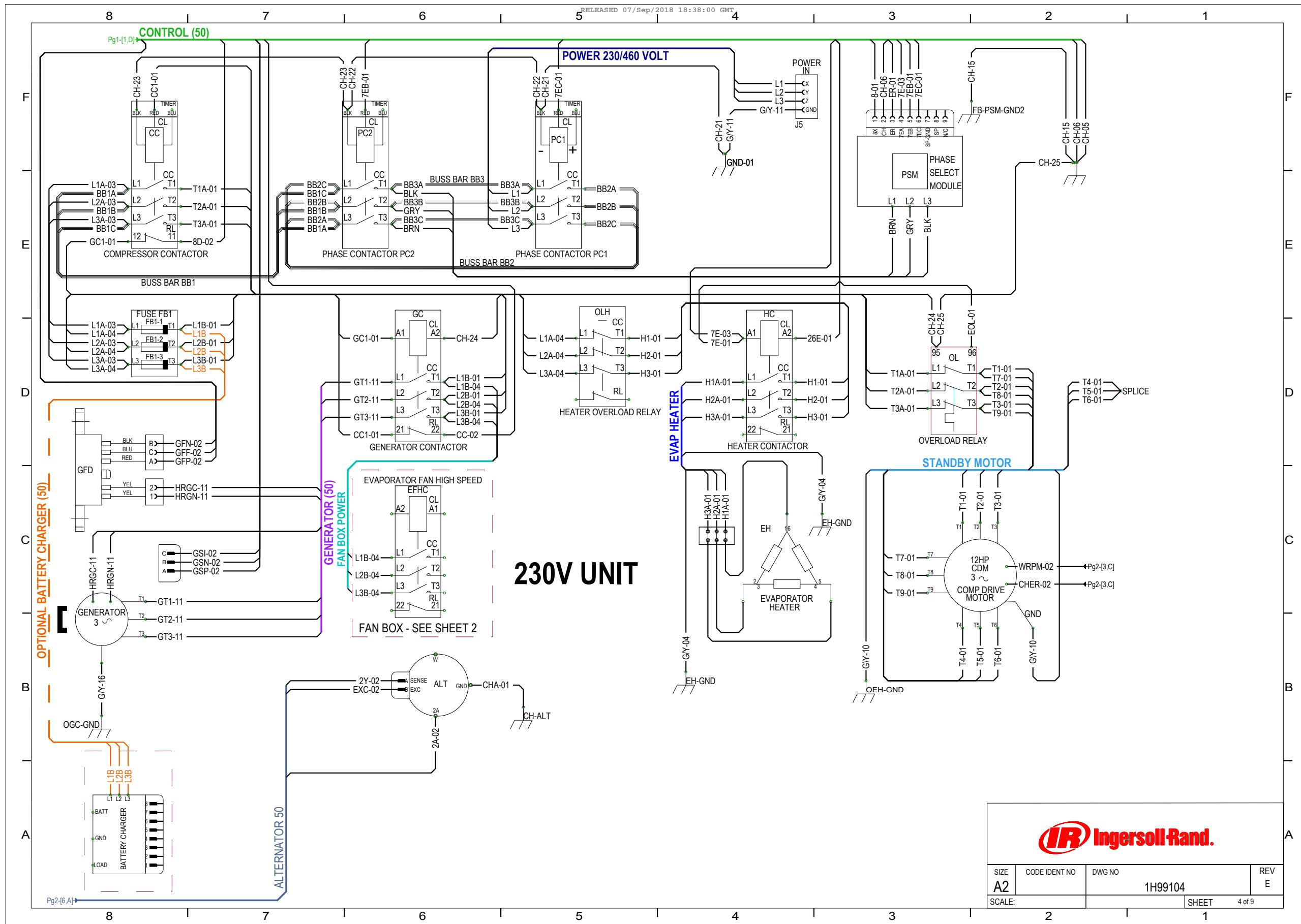


Figure 85. S-610M Wiring Diagram 1H99104 (Sheet 5 of 9)

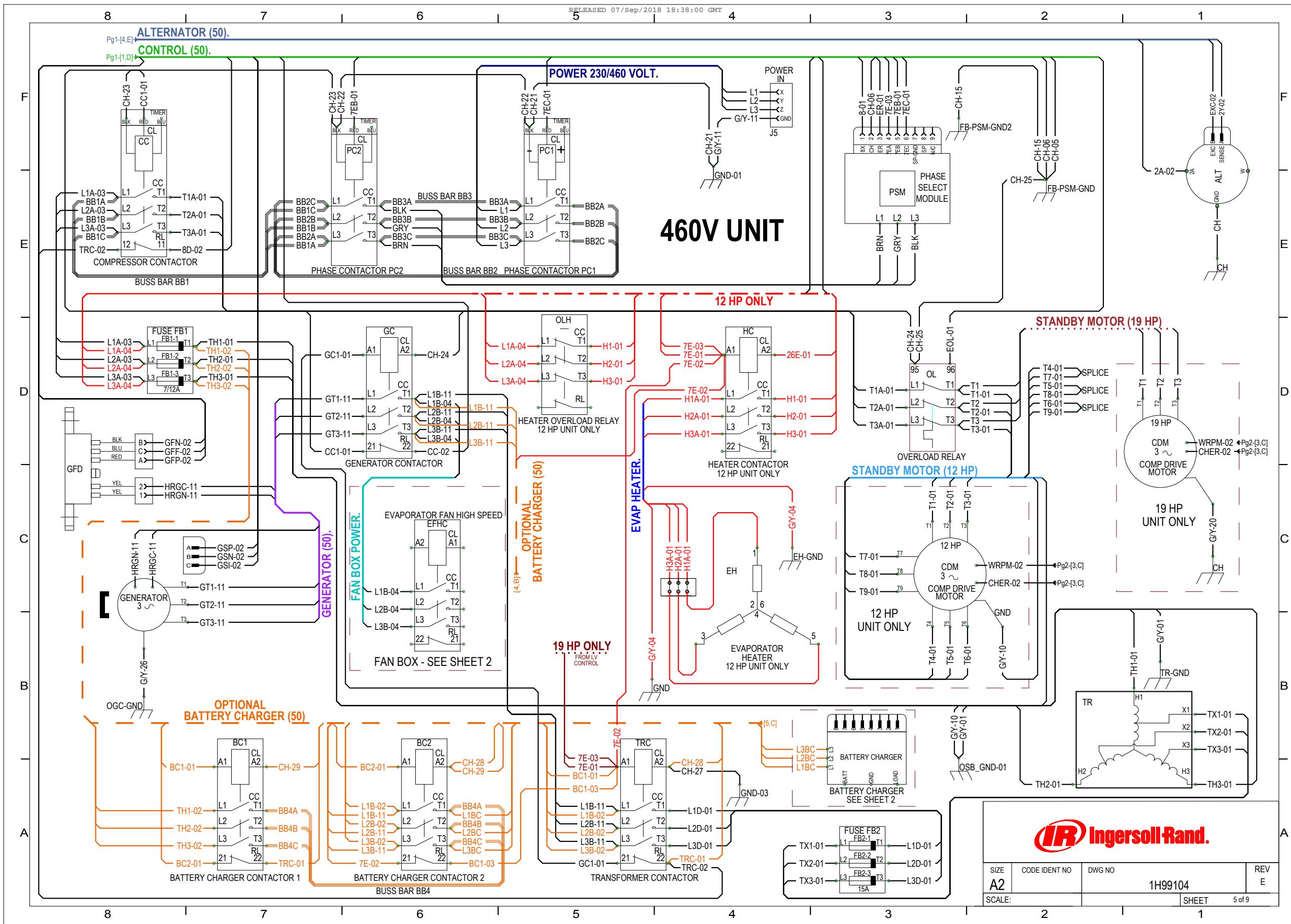


Figure 86. S-610M Wiring Diagram 1H99104 (Sheet 6 of 9)

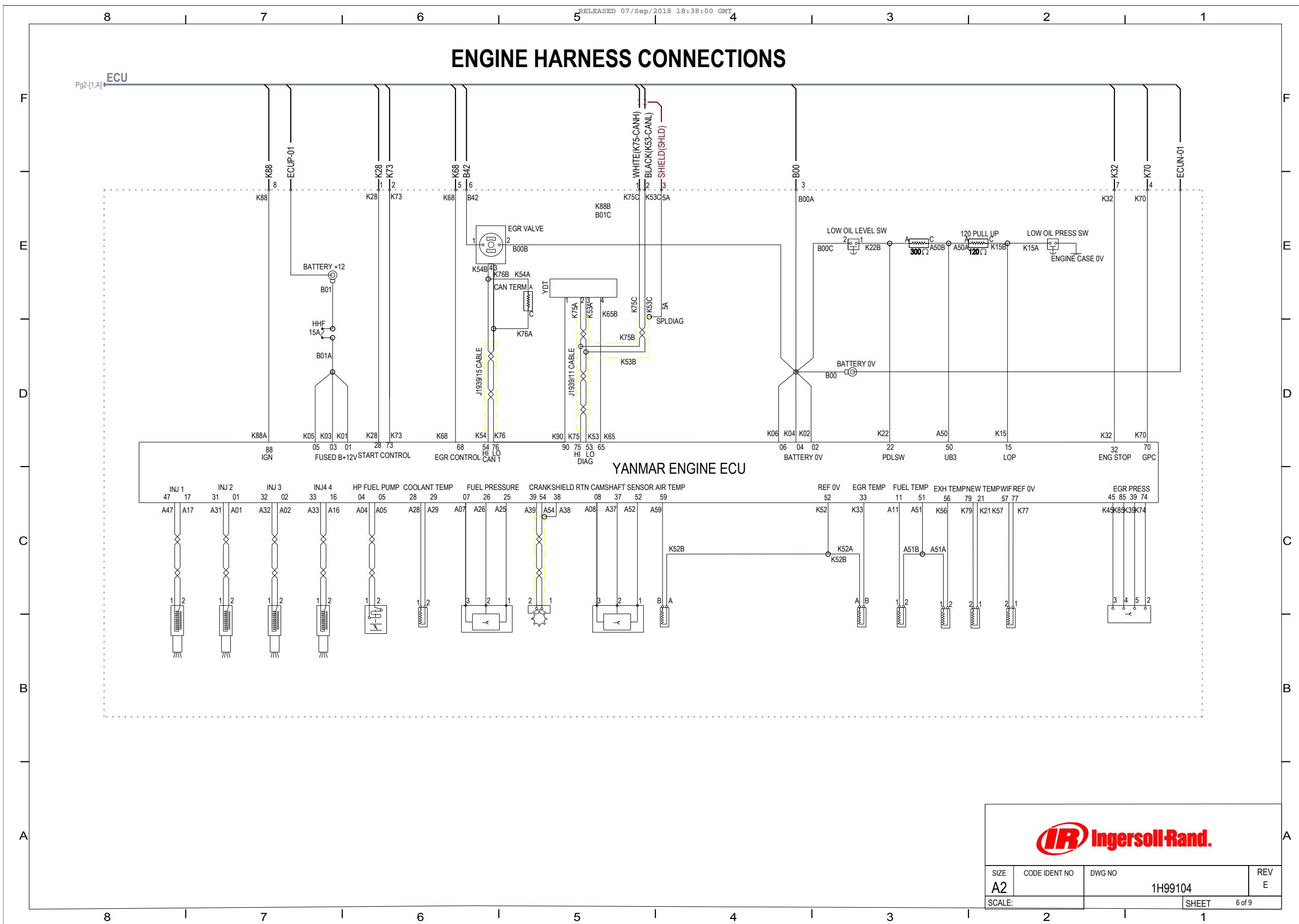


Figure 87. S-610M Wiring Diagram 1H99104 (Sheet 7 of 9)

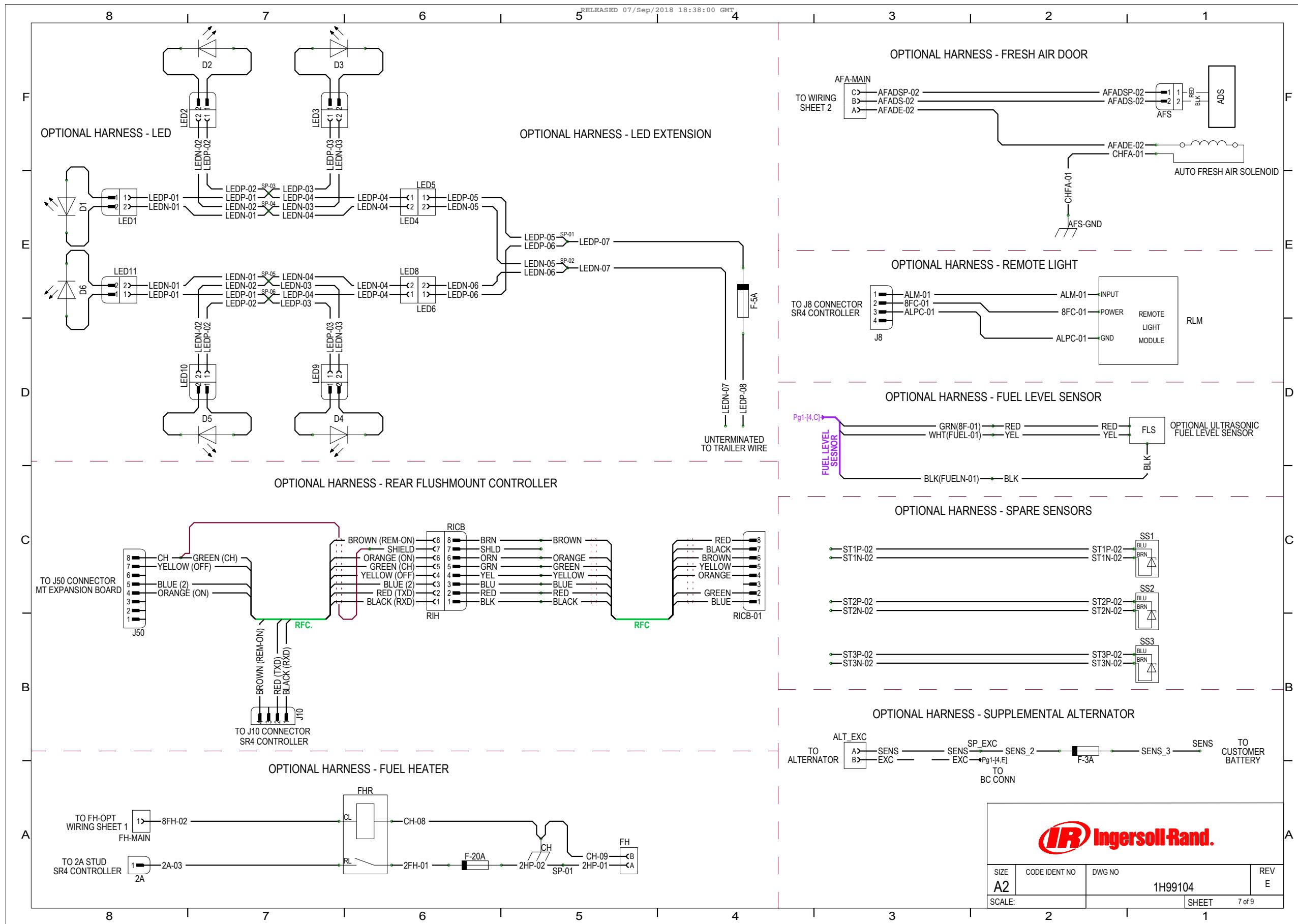
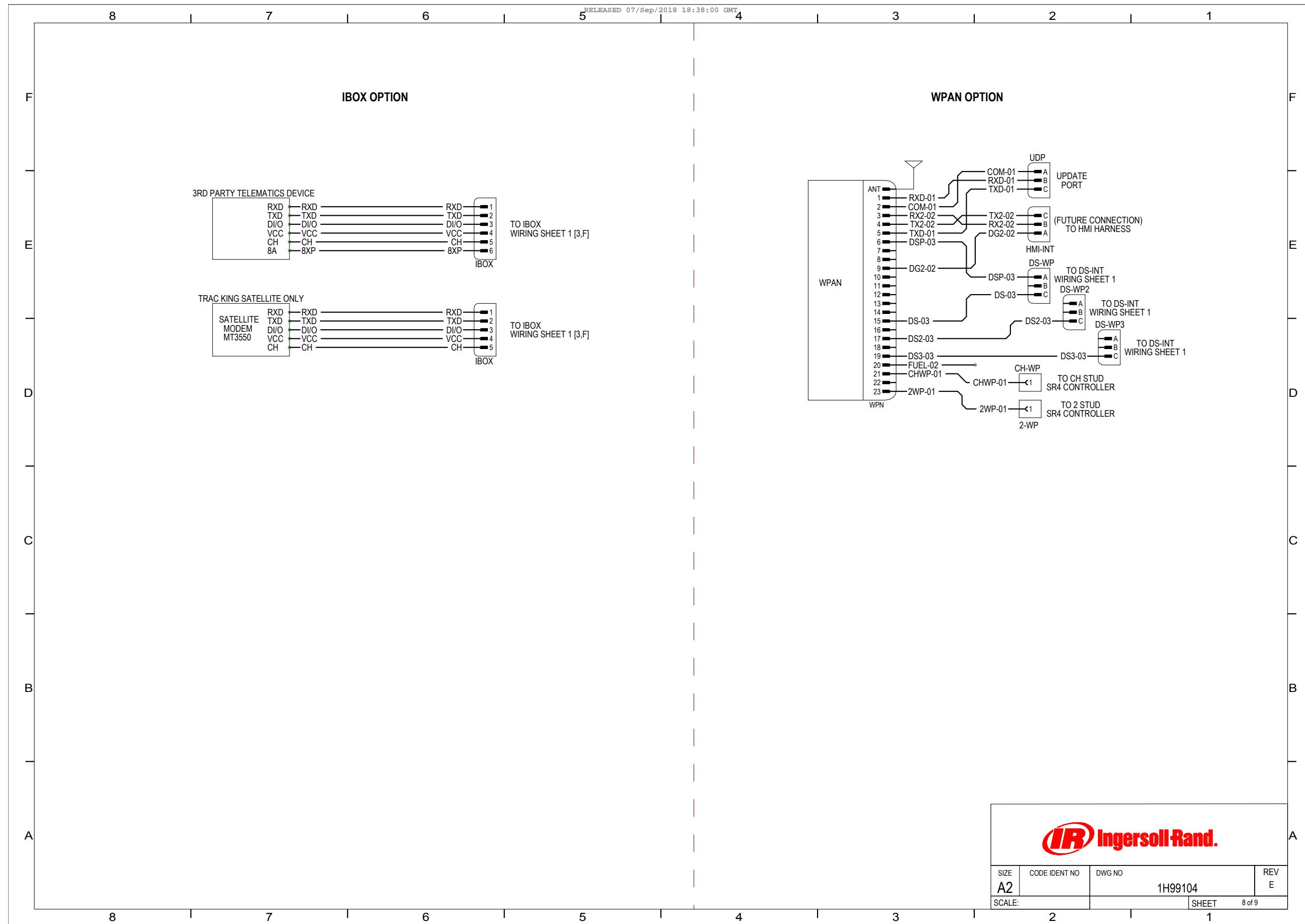


Figure 88. S-610M Wiring Diagram 1H99104 (Sheet 8 of 9)



**Figure 89. S-610M Wiring Diagram 1H99104 (Sheet 9 of 9)**



**Notes**

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**THERMO KING**

Notes

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