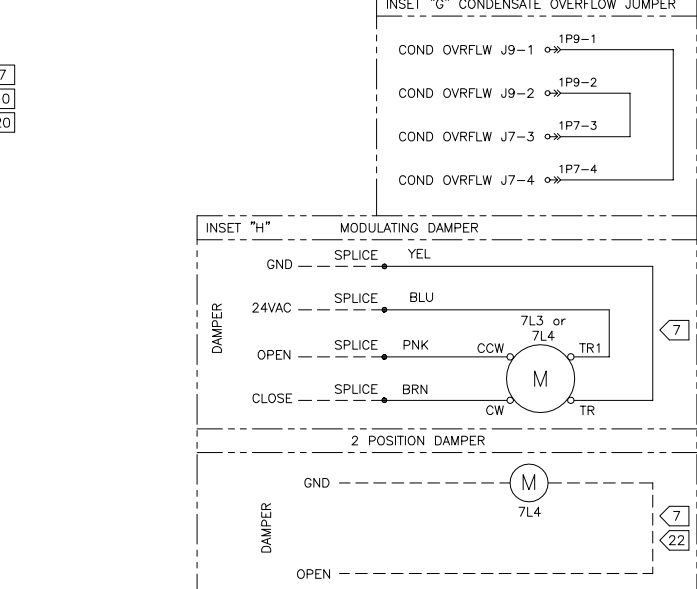
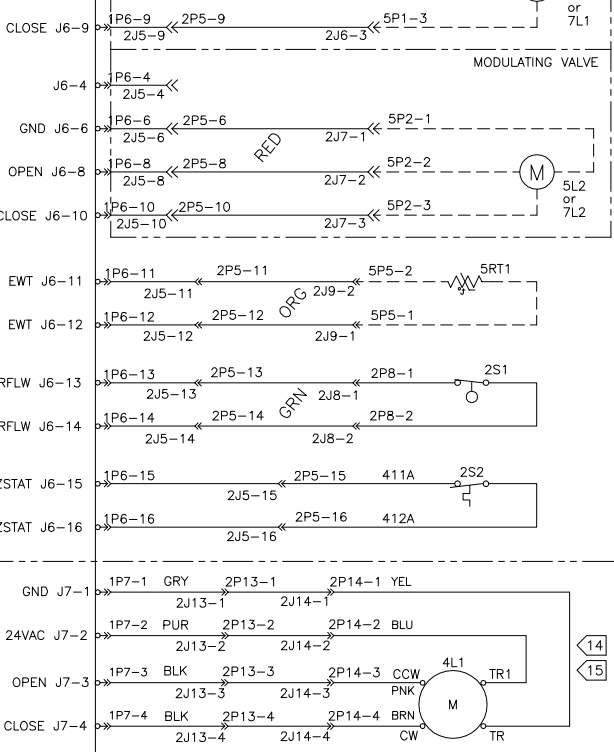
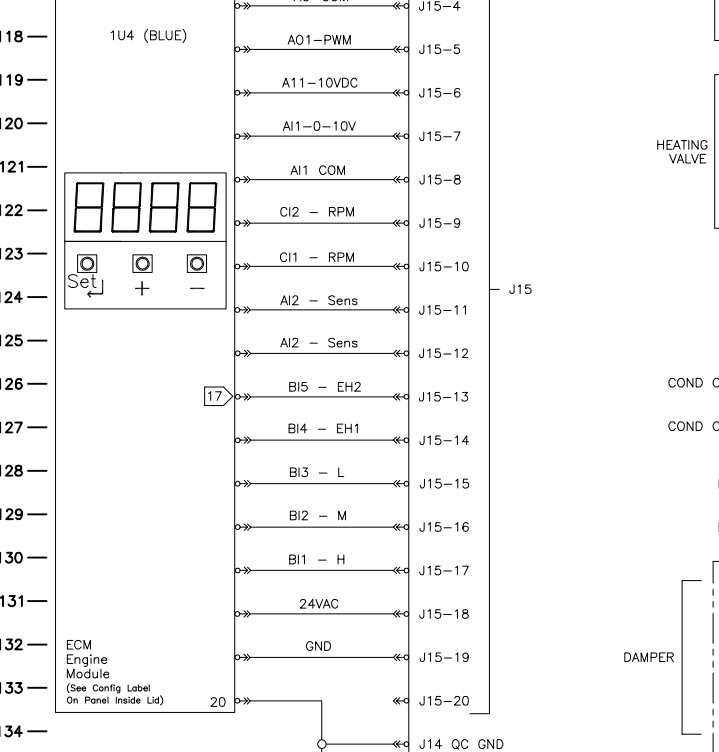
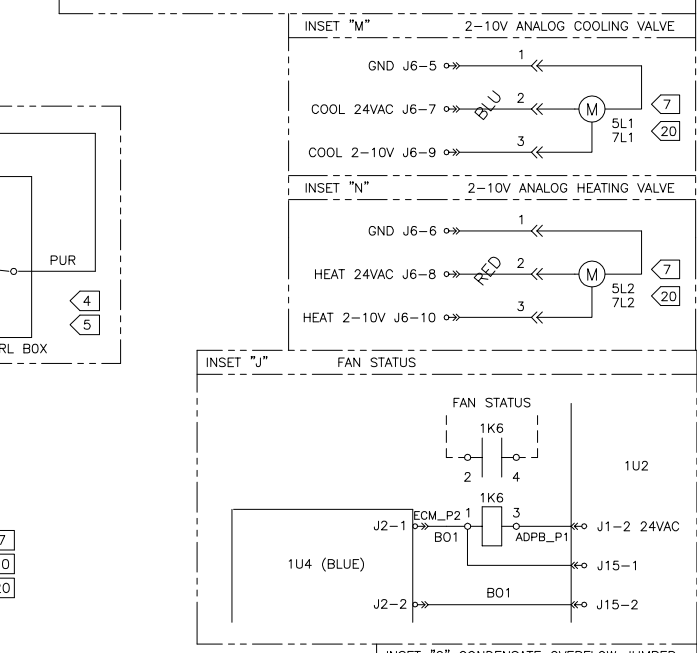
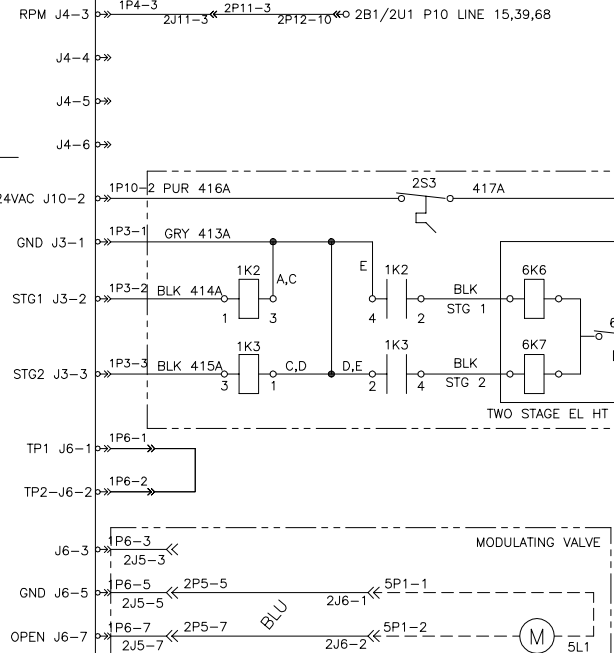
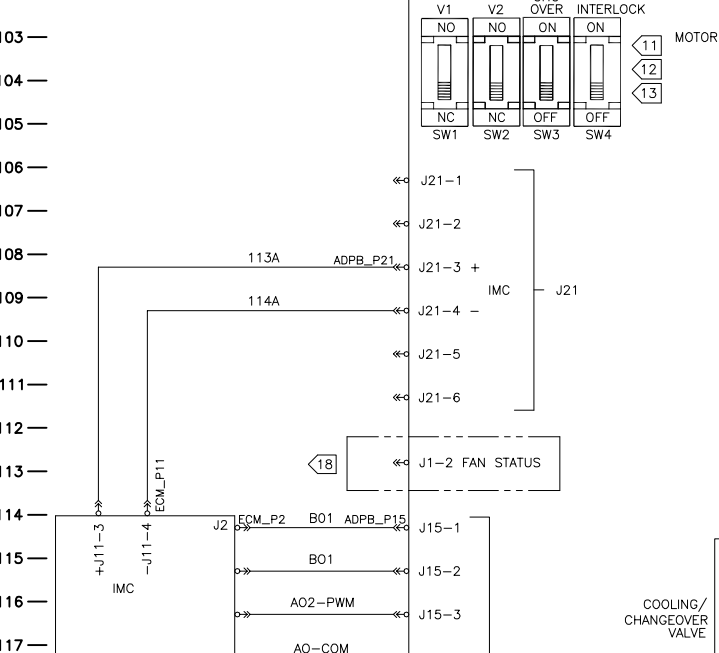
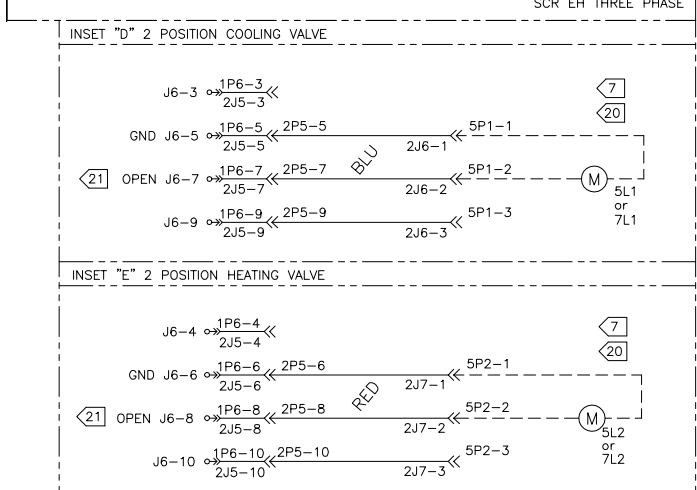
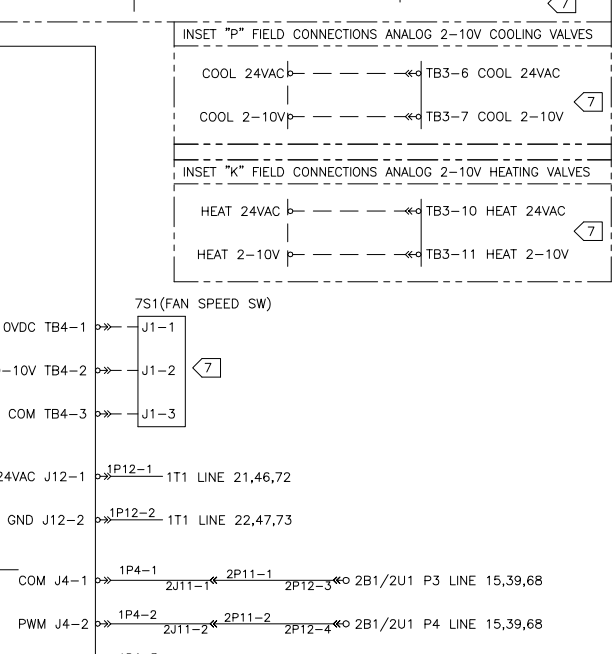
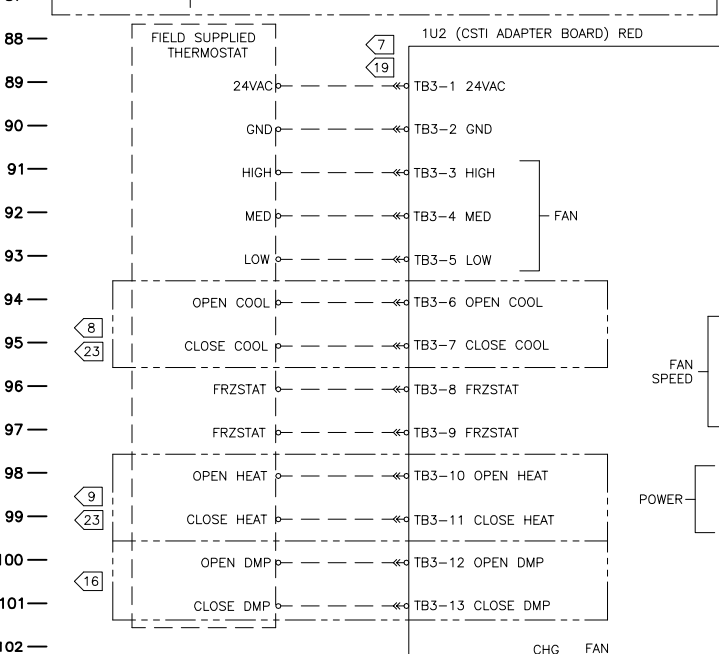
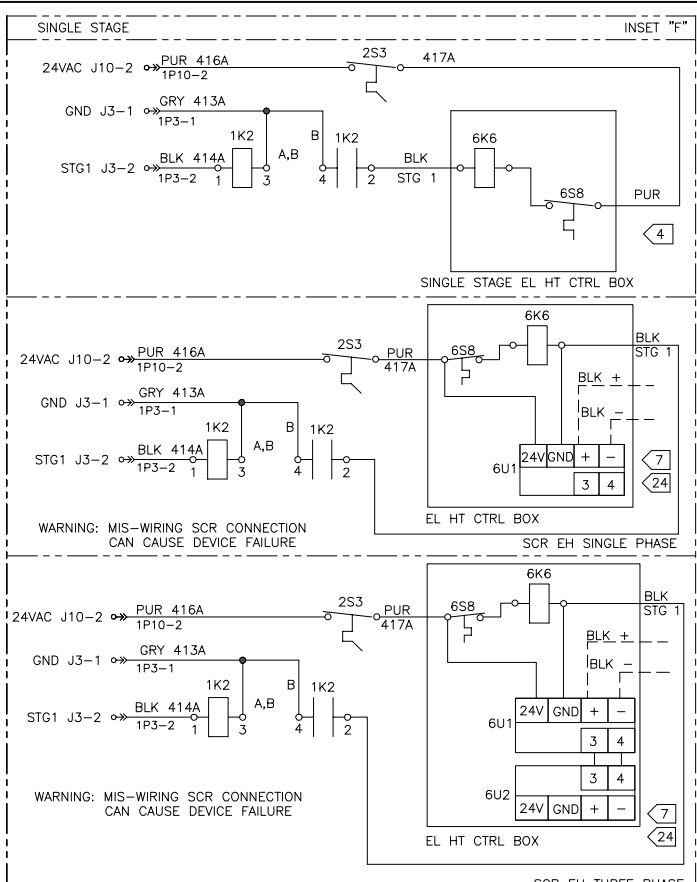
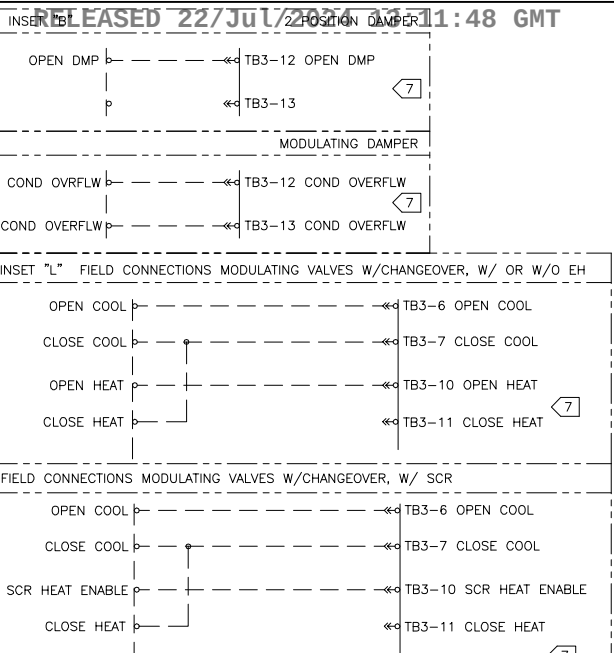
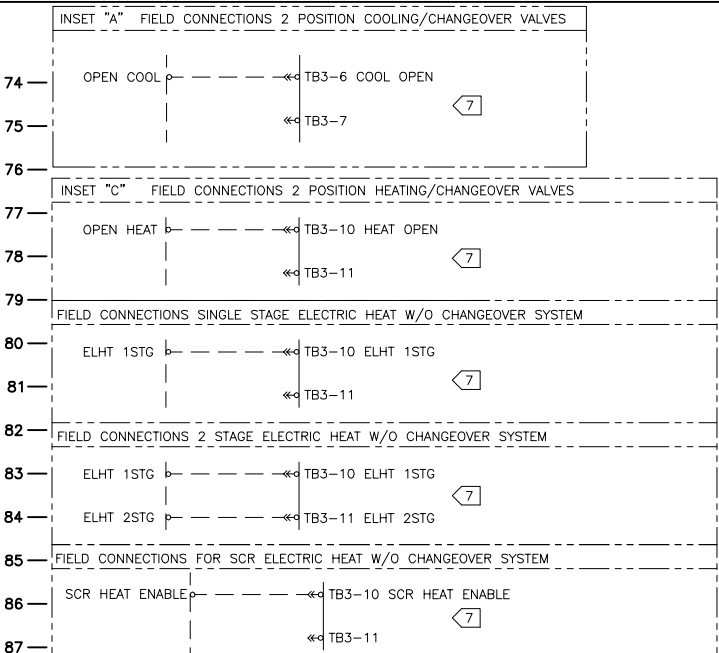




NOTES:

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 LINED ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE.

3. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS. ALL FIELD WIRING MUST HAVE INSULATION VOLTAGE RATING THAT EQUALS OR EXCEEDS UNIT RATED VOLTAGE.

4. ELECTRIC HEAT SCHEMATIC IS LOCATED IN THE ELECTRIC HEAT CONTROL BOX PANEL.

5. WIRING SHOWN IS FOR TWO STAGE ELECTRIC HEAT. FOR SINGLE STAGE ELECTRIC HEAT OR SCR ELECTRIC HEAT SEE INSET "F".

6. USE CLASS 2 WIRING.

7. FIELD CONNECTIONS SHOWN ON TB3-6 AND TB3-7 ARE FOR COOLING MODULATING VALVES.

8. FIELD CONNECTIONS TO COOLING TWO POSITION VALVES OR CHANGEVER VALVES, SEE INSET "A".

9. FIELD CONNECTIONS SHOWN ON TB3-10 AND TB3-11 ARE FOR HEATING MODULATING VALVES.

10. WIRING SHOWN IS FOR MODULATING VALVES. FOR COOLING 2 POSITION VALVE, SEE INSET "D". FOR HEATING 2 POSITION VALVE, SEE INSET "E". FOR COOLING ANALOG 2-10V VALVE, SEE INSET "M". FOR HEATING ANALOG 2-10V VALVE, SEE INSET "N".

11. SW1 AND SW2 ARE SHOWN IN THE OFF POSITION. SW1 AND SW2 ARE TURNED OFF WHEN VALVES ARE NORMALLY CLOSED OR MODULATING (CVT1 OR CVT2 = A,C,E,F,G,J). SW1 AND/OR SW2 ARE TURNED ON WHEN VALVES ARE NORMALLY OPEN. (CVT1 OR CVT2 = B,D,H).

12. SW3 IS SHOWN IN THE OFF POSITION. SW3 IS TURNED ON WHEN CHANGEVER COILS ARE SELECTED (COL1 OR COL2 = J,K).

13. SW4 IS SHOWN IN THE OFF POSITION. SW4 IS TURNED ON WHEN UNIT HAS ELECTRIC HEAT (STGE = 1,2,3).

14. WIRING SHOWN IS FOR FACTORY INSTALLED MODULATING DAMPER.

15. REMOVE TEST JUMPER PRIOR TO CONNECTING MIXING BOX TO MAIN UNIT.

16. FIELD CONNECTIONS SHOWN ON TB3-12 AND TB3-13 ARE FOR MODULATING DAMPER.

17. WIRE IS OMITTED WHEN 2-10V HEATING VALVE IS USED.

18. SEE INSET "J" FOR FAN STATUS WIRING. (CTRL = N).

19. 24V OUTPUT IS RATED 15VA.

20. FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING.

21. VALVES SHOWN IN NORMALLY CLOSED POSITION, FOR NORMALLY OPEN POSITION, THE VALVE SIGNAL BECOMES CLOSE.

22. DAMPER SHOWN IN NORMALLY CLOSED POSITION, FOR NORMALLY OPEN POSITION, THE DAMPER SIGNAL BECOMES CLOSE.

23. FIELD CONNECTIONS SHOWN ON TB3-6, TB3-7, TB3-10, TB3-11 ARE FOR MODULATING VALVES W/O CHANGEVER AND ELECTRIC HEAT SYSTEM.

24. FIELD CONNECTIONS FOR SCR EH ARE IN THE HEATER BOX.

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	ADAPTER BOARD	88,98
1U4	ENGINE BOARD	98,118
253	EL HT LOCKOUT SWITCH	75,105
1U4	ENGINE BOARD	98,118
6K6	CONTACTOR; EL HT STG 1	107,77
6S8	EL HT HIGH TEMP	108,77
6K7	CONTACTOR; EL HT STG 2	109
1K2	CONTACTOR; EL HT	107,77
1K3	CONTACTOR; EL HT	109
1K6	RELAY; FAN STATUS	94,96
5L1	COOLING COIL VALVE MOTOR	84,115
5L2	HEATING COIL VALVE MOTOR	89,119
7L1	COOLING COIL VALVE MOTOR	115,84
7L2	HEATING COIL VALVE MOTOR	89,119
251	CONDENSATE OVERFLOW SWITCH	126
252	FREESTAT	128
7L3	MIXING BOX DAMPER ACTUATOR	125
7L4	OUTSIDE AIR DAMPER ACTUATOR	125,128
4L1	MIXING BOX DAMPER ACTUATOR	133
5RT1	ENTERING WATER TEMP SENSOR	124
7S1	FAN SPEED SW	89

AREA	LOCATION
1	MAIN CONTROL PANEL
2	SUPPLY FAN AND COIL SECTION
3	
4	MIXING BOX
5	EXTERNAL PIPING
6	ELECTRIC HEAT CONTROL BOX
7	FIELD INSTALLED DEVICE

REVISIONS	DATE	BY	REASON
08-JUL-2024			

TRANE

50262930

SCHEMATIC

CSTI--STANDARD COILS

BLOWER COIL -- BOXE