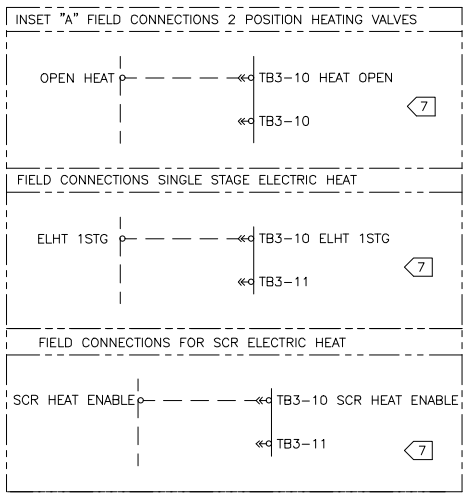

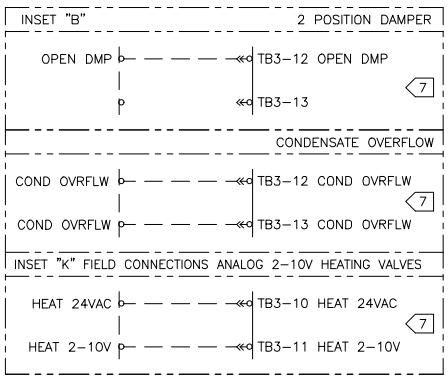

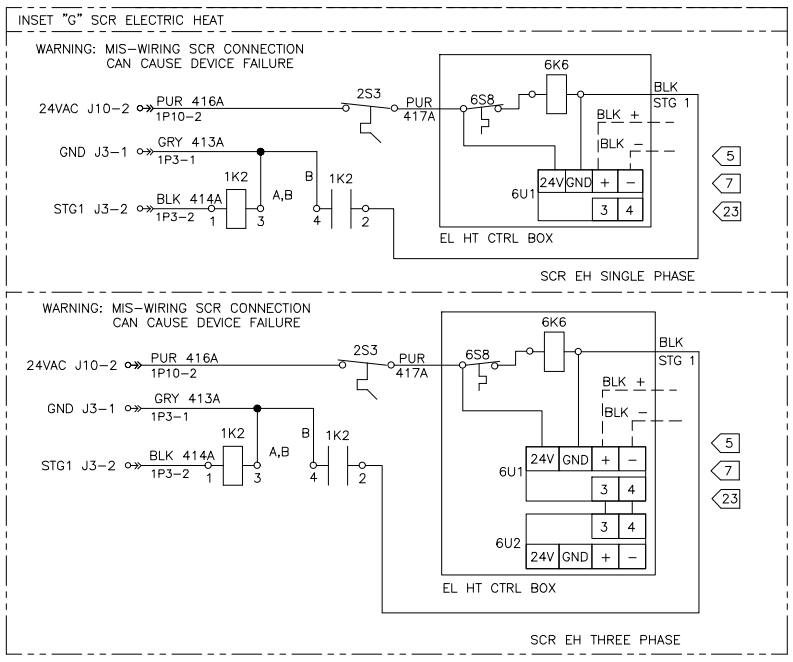

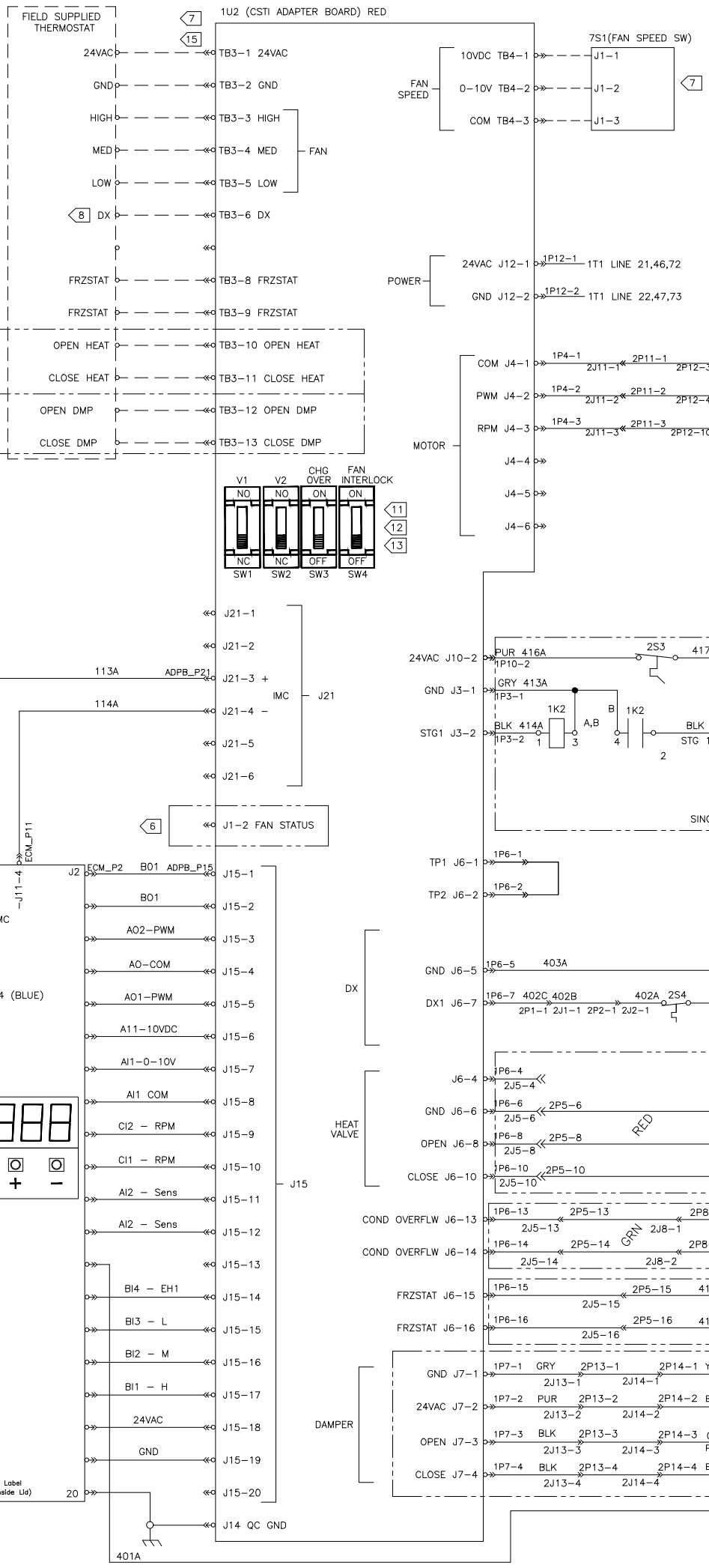

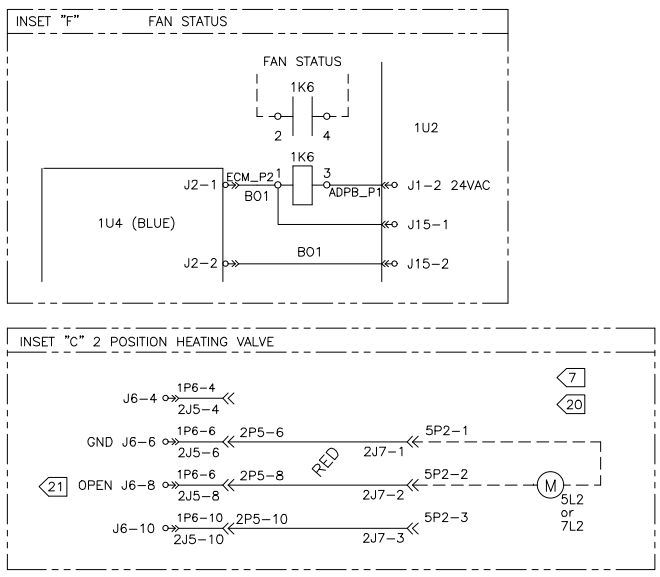

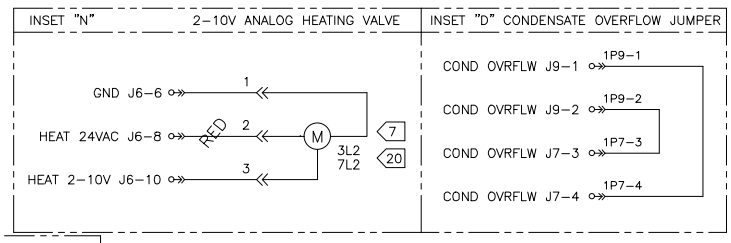

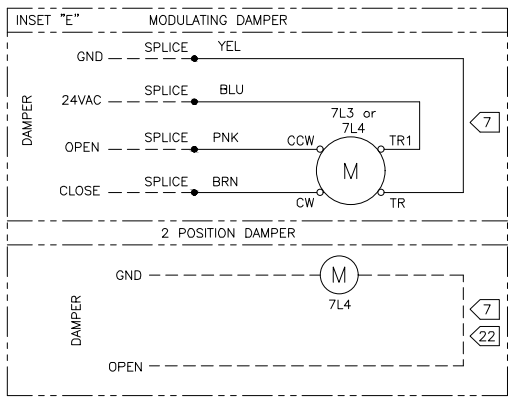

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	MAIN CONTROL PANEL
2	SUPPLY FAN AND COIL SECTION
3	
4	MIXING BOX
5	EXTERNAL PIPING
6	ELECTRIC HEAT CONTROL BOX
7	FIELD INSTALLED DEVICE

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	ADAPTER BOARD	88,80
1U4	ENGINE BOARD	83,114
2S3	EL HT LOCKOUT SWITCH	109
6K6	CONTACTOR; EL HT STG 1	111
6S8	EL HT HIGH TEMP	112
1K2	CONTACTOR; EL HT	111
1K6	RELAY; FAN STATUS	80,83
5L2	HEATING COIL VALVE MOTOR	98,123
7L2	HEATING COIL VALVE MOTOR	98,123
2S1	CONDENSATE OVERFLOW SWTCH	126
2S2	FREEZESTAT	128
1R1	RESISTOR; DX STG 1 TEST	118
2S4	FROSTSTAT	119
7L3	MIXING BOX DAMPER ACTUATOR	111
7L4	OUTSIDE AIR DAMPER ACTUATOR	111,114
4L1	MIXING BOX DAMPER ACTUATOR	133
7S1	FAN SPEED SW	89

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 AN 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 SINGLE STAGE ELECTRIC HEAT. FOR SCR ELECTRIC HEAT SINGLE PHASE AND SCR ELECTRIC HEAT THREE PHASES SEE INSET "G".

〈6〉 SEE INSET "F" FOR FAN STATUS WIRING.

〈7〉 USE CLASS 2 WIRING.

〈8〉 FIELD CONNECTIONS SHOWN ON TB3-6 IS FOR SINGLE STAGE DX.

〈9〉 FIELD CONNECTIONS SHOWN ON TB3-10 AND TB3-11 ARE FOR HEATING MODULATING VALVES. FOR FIELD CONNECTIONS TO HEATING TWO POSITION VALVES, SINGLE STAGE EH AND SCR EH, SEE INSET "A".

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

〈11〉 SW1 AND SW2 ARE SHOWN IN THE OFF POSITION. SW1 AND OR SW2 ARE TURNED OFF WHEN COIL 1 OR COIL 2 CONTROL VALVES ARE NORMALLY CLOSED OR MODULATING. SW1 AND/OR SW2 ARE TURNED ON WHEN COIL 1 OR COIL 2 CONTROL VALVES ARE NORMALLY OPEN.

〈12〉 SW3 IS SHOWN IN THE OFF POSITION. SW3 IS TURNED ON WHEN CHANGEOVER COILS ARE SELECTED (6R DX 3/16", 4R DX 3/16" HEAT PUMP).

〈13〉 SW4 IS SHOWN IN THE OFF POSITION. SW4 IS TURNED ON WHEN UNIT HAS ELECTRIC HEAT (1-STAGE, 2-STAGE, SCR).

〈14〉 WIRING SHOWN IS FOR SINGLE STAGE DX SELECTION.

〈15〉 24V OUTPUT IS RATED 15VA

〈16〉 FIELD INSTALLED CONDENSING UNIT CAN BE WIRED BETWEEN TERMINALS 1TB1-1 TO 1TB1-2 FOR SINGLE STAGE. REMOVE RESTISTOR 1R1 PRIOR TO WIRING CONDENSOR. DX1 OUTPUTS RATED FOR 24VAC 6VA MAXIMUM.

〈17〉 WIRING SHOWN IS FOR FACTORY INSTALLED MODULATING DAMPER. FOR CONDENSATE OVERFLOW JUMPER, SEE INSET "D". FOR 2 POSITION DAMPER AND MODULATING FIELD SUPPLIED/ SHIP LOOSE DAMPER WIRING, SEE INSET "E".

〈18〉 REMOVE TEST JUMPER PRIOR TO CONNECTING MIXING BOX TO MAIN UNIT.

〈19〉 FIELD CONNECTIONS SHOWN ON TB3-12 AND TB3-13 ARE FOR MODULATING DAMPER. FOR 2 POSITION DAMPER AND CONDENSATE OVERFLOW FIELD WIRING, SEE INSET "B".

〈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 FOR SCR EH ARE IN THE HEATER BOX.

〈24〉 WIRING IS SHOWN WITH CONDENSATE OVERFLOW SWITCH. SEE INSET D FOR REQUIRED CONDENSATE OVERFLOW JUMPER. FOR UNITS WITHOUT COILS OR UNITS WITHOUT CONDENSATE OVERFLOW, THERE IS NO FACTORY WIRED CONDENSATE OVERFLOW SWITCH.

〈25〉 WIRING SHOWN IS FOR BCHE/BCVE WITH LOW LIMIT/FREEZE STAT. FOR UNITS WITHOUT LOW LIMT/FREEZESTAT OR WITHOUT COILS, THERE IS NO FACTORY WIRED LOW LIMIT/FREEZESTAT SWITCH.

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REPLACES

REVISION DATE

DRAWN BY J. XI

DATE 28-SEP-2025

SIMILAR TO

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TRANE

SCHEMATIC

CSTI--DX COIL W / HEAT VALVE OR CSTI--DX COIL W/ 1 STG OR SCR EH BLOWER COIL --- BOXE

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REV F