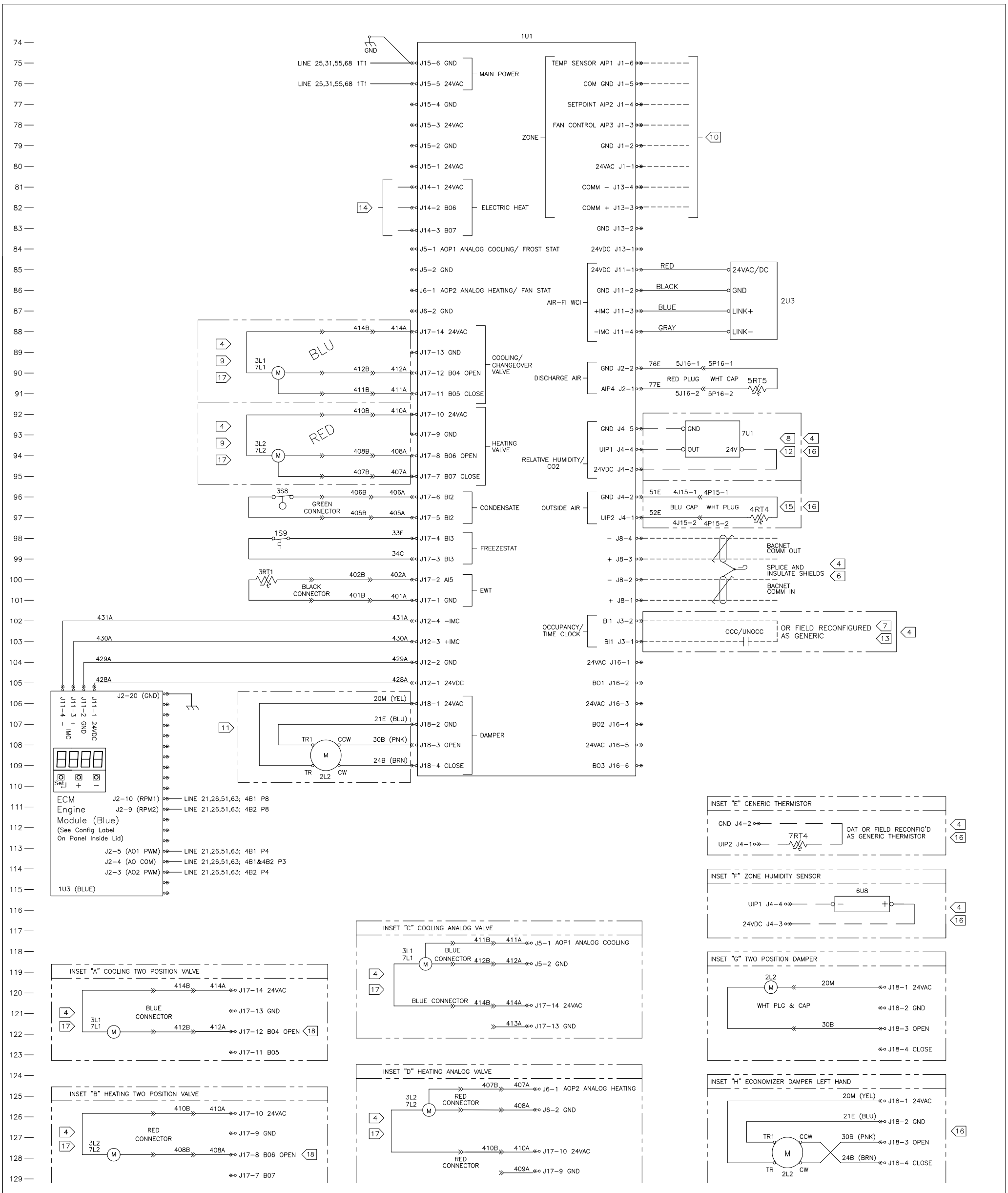

NOTES:

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 RECOMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. SOLID LINES INDICATE WIRING BY TRANE CO.

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 USE CLASS 2 WIRING.

5. FIELD POWER SUPPLY CONDUCTORS MUST HAVE MINIMUM 90C INSULATION.

6 COMUNICATION WIRE MUST BE TRANE PART NO. 400-20-28, OR WINDY CITY OR CONNECT AIR "LEVEL 4" CABLE. MAXIMUM OF 4500 FOOT AGGREGATE RUN. CAUTION! DO NOT RUN POWER IN THE SAME CONDUIT OR WIRE BUNDLE WITH COMUNICATION LINK. FOR ADDITIONAL INFORMATION REFER TO EMTX-EB-68.

7 1U1'S GENERIC BINARY OUTPUT IS RATED 24VAC, 12VA, PILOT DUTY.

8 CONFIGURE THE CO2 SENSOR FOR 4-20mA OPERATION USING THE OUT2 JUMPER SUPPLIED WITH SENSOR.

9 WIRING SHOWN IS FOR MODULATING VALVE SECTION. FOR TWO POSITION VALVES SEE INSET "A" FOR COOLING AND INSET "B" FOR HEATING. FOR ANALOG VALVES SEE INSET "C" FOR COOLING AND INSET "D" FOR HEATING.

10 SEE SHEET 2311-4676 FOR ZONE SENSOR CONNECTIONS.

11 WIRING SHOWN IS FOR ECONOMIZER DAMPER RH SELECTION SEE INSET "G" FOR TWO POSITION DAMPER AND INSET "H" FOR ECONOMIZER DAMPER LH WIRING.

12 WIRING SHOWN IS FOR CO2 SENSOR. SEE INSET "F" FOR RELATIVE HUMIDITY SENSOR.

13 WIRING SHOWN IS FOR OCCUPIED/ UNOCCUPIED.

14 ELECTRIC HEAT WIRING IS SHOWN ON SHEETS 23114699 THRU 23114714.

15 WIRING SHOWN IS FOR OUTSIDE AIR SENSOR (AIRD=G,H,J). SEE INSET "E" FOR GENERIC THERMISTOR WIRING (AIRD ≠G,H,J).

16 OPTION NOT AVAILABLE ON LOW VERTICAL (MODL=K,L).

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

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

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL
2	CONTROL END
3	PIPING END
4	FAN SECTION
5	COIL SECTION
6	CUSTOMER INSTALLED
7	FIELD SUPPLIED DEVICE

LEGEND

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U1	UC400-B, SYMBIO 400-B MODULE	74
1U3	ECM ENGINE BOARD	106
2U3	AIR-FI WIRELESS COM INTERFACE	85
3L1	COOLING/ CHANGEOVER VALVE	90,119,122
7L1	COOLING/ CHANGEOVER VALVE	90,119,122
3L2	HEATING COIL VALVE	94,126,128
7L2	HEATING COIL VALVE	94,126,128
5RT5	DISCHARGE AIR TEMP SNSR	91
7U1	CO2 SENSOR	93
3S8	CONDENSATE OVERFLOW SWITCH	96
4RT4	OUTSIDE AIR TEMP SENSOR	97
1S9	FREEZE-STAT	98
3RT1	AUTOCHG TEMP SENSOR\ EH LO	100
2L2	ECON DMPR RH/LH, DMPR ACTUATOR	108,120,127
7RT4	GENERIC THERMISTOR	113
6U8	ZONE HUMIDITY SENSOR	116

REPLACES

REVISION DATE

DRAWN BY G.HUDGINS

DATE 24-JUL-2023

SIMILAR TO

TRANE

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3518-6105

SCHEMATIC DIAGRAM
UC400-B, SYMBIO 400-B
STANDARD COIL
FAN COIL/FORCE-FLO

REV F