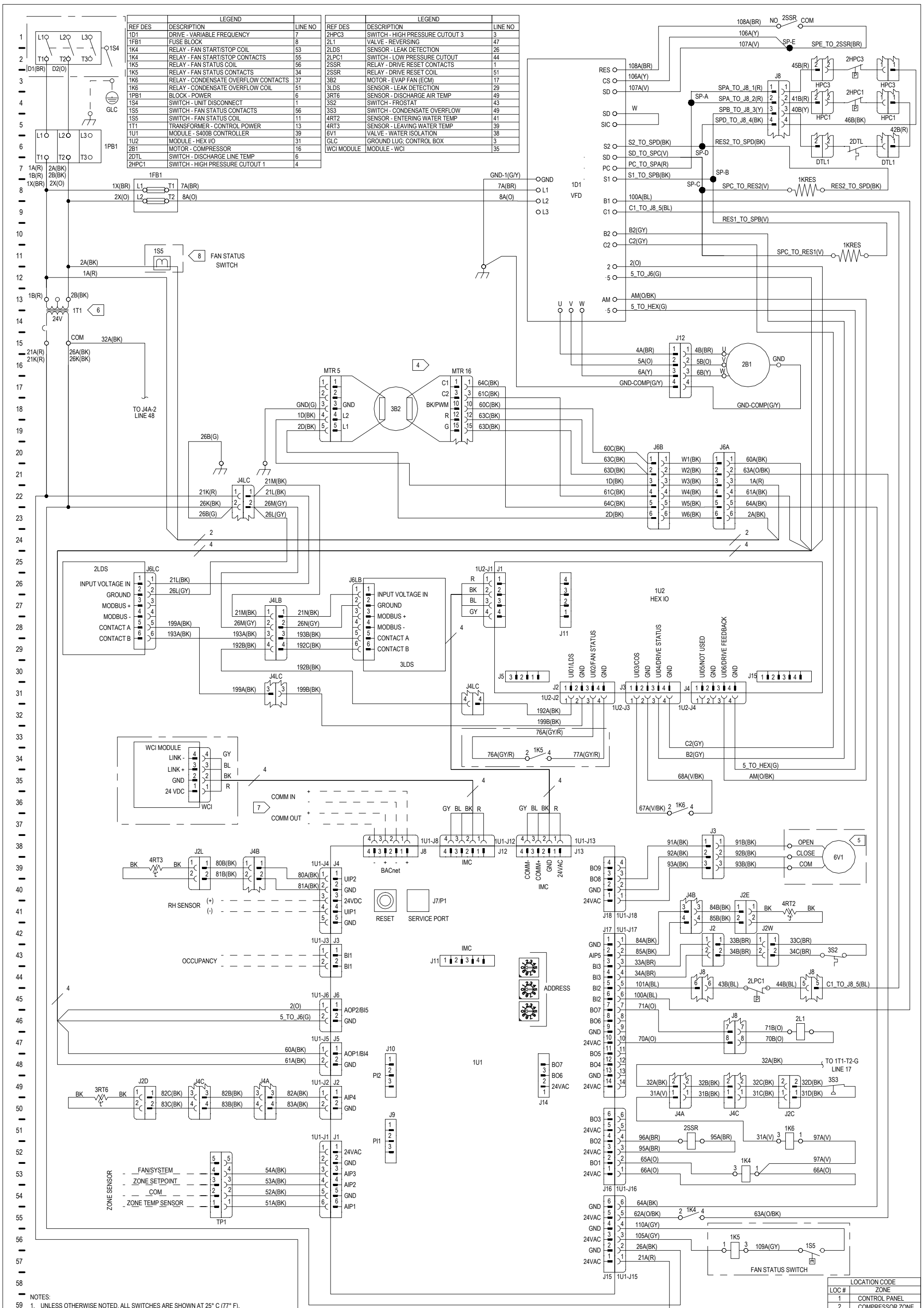


| LEGEND | | |
|---|---|---|
| REF DES | DESCRIPTION | LINE NO |
| 1D1 | DRIVE - VARIABLE FREQUENCY | 7 |
| 1FB1 | FUSE BLOCK | 8 |
| 1K4 | RELAY - FAN START/STOP COIL | 53 |
| 1K4 | RELAY - FAN START/STOP CONTACTS | 55 |
| 1K5 | RELAY - FAN STATUS COIL | 56 |
| 1K5 | RELAY - FAN STATUS CONTACTS | 34 |
| 1K6 | RELAY - CONDENSATE OVERFLOW CONTACTS | 37 |
| 1K6 | RELAY - CONDENSATE OVERFLOW COIL | 51 |
| 1PB1 | BLOCK - POWER | 6 |
| 1S4 | SWITCH - UNIT DISCONNECT | 1 |
| 1S5 | SWITCH - FAN STATUS CONTACTS | 56 |
| 1S5 | SWITCH - FAN STATUS COIL | 11 |
| 1T1 | TRANSFORMER - CONTROL POWER | 13 |
| 1U1 | MODULE - S400B CONTROLLER | 39 |
| 1U2 | MODULE - HEX I/O | 31 |
| 2B1 | MOTOR - COMPRESSOR | 16 |
| 2DTL | SWITCH - DISCHARGE LINE TEMP | 6 |
| 2HPC1 | SWITCH - HIGH PRESSURE CUTOUT 1 | 4 |

| LEGEND | | |
|---|---|---|
| REF DES | DESCRIPTION | LINE NO |
| 2HPC3 | SWITCH - HIGH PRESSURE CUTOUT 3 | 3 |
| 2L1 | VALVE - REVERSING | 47 |
| 2LDS | SENSOR - LEAK DETECTION | 26 |
| 2LPC1 | SWITCH - LOW PRESSURE CUTOUT | 44 |
| 2SSR | RELAY - DRIVE RESET CONTACTS | 1 |
| 2SSR | RELAY - DRIVE RESET COIL | 51 |
| 3B2 | MOTOR - EVAP FAN (ECM) | 17 |
| 3LDS | SENSOR - LEAK DETECTION | 29 |
| 3RT6 | SENSOR - DISCHARGE AIR TEMP | 49 |
| 3S2 | SWITCH - FROSTAT | 43 |
| 3S3 | SWITCH - CONDENSATE OVERFLOW | 49 |
| 4RT2 | SENSOR - ENTERING WATER TEMP | 41 |
| 4RT3 | SENSOR - LEAVING WATER TEMP | 39 |
| 6V1 | VALVE - WATER ISOLATION | 38 |
| GLC | GROUND LUG; CONTROL BOX | 3 |
| WCI MODULE | MODULE - WCI | 35 |

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 SHUT DOWN HAS OCCURRED.
2. SOLID LINES INDICATE WIRING PROVIDED BY TRANE CO. DASHED LINES INDICATE RECOMMENDED FIELD WIRING PROVIDED BY THE CUSTOMER. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE CUSTOMER. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS. ALL LOW VOLTAGE FIELD CONNECTIONS ARE CLASS 2.

4 CONNECTOR "MTR 16" PINS 2, 4, 5, 6, 7, 8, 9, 11, 13, 14, 16 ARE NOT USED.

5 FOR TWO WIRE VALVES CONNECT TO WIRES 91B AND 93B.

6 FOR 208/230V UNITS TRANSFORMER IS FACTORY WIRED FOR 230V. FOR 208V APPLICATION MOVE PRIMARY WIRE FROM THE 230V TAB TO THE 208V TAB.

7 USE 18 AWG (25PF/FT. NOM.) COMMUNICATION-STYLE WIRE, BRAID- OR FOIL- SHIELDED, TWISTED PAIR, IMPEDANCE: 60.7 OHMS, MAXIMUM LENGTH: 4,000 FT. CAUTION! DO NOT RUN POWER IN THE SAME CONDUIT WITH COMMUNICATION WIRE.

8 WIRE 2A MUST PASS THROUGH DEVICE CENTER 2 TIMES FOR PROPER OPERATION.

| LOCATION CODE | |
|---|---|
| LOC # | ZONE |
| 1 | CONTROL PANEL |
| 2 | COMPRESSOR ZONE |
| 3 | SUPPLY FAN ZONE |
| 4 | WATER COIL ZONE |
| 5 | RETURN AIR ZONE |
| 6 | FIELD INSTALLED |

SYMBOL LEGEND

| | | | | | |
|---|---|---|---|---|---|
| TRANE WIRING: | CUSTOMER PROVIDED: | EARTH GROUND: | SPLICE (SP): | MULTIPLE WIRE SYMBOL: | SHIELDED CABLE: |
| FIELD WIRING: | ALTERNATE/OPTIONS: | EQUIPMENT CHASSIS: | JUNCTION: | TWISTED CONDUCTORS: | LINE BREAK: |

**TRANE ®**

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WATER SOURCE HEAT PUMP
SCHEMATICS
WSHP VARIABLE SPEED SINGLE PHASE

| DESIGNER: | ENGINEER: | NUMBER: | TRANE © DATE: | REV | SHEET |
|---|---|---|---|---|---|
| C. COLLINS | D. SHELTON | 23116740 | 7/08/2025 | B | 1 |