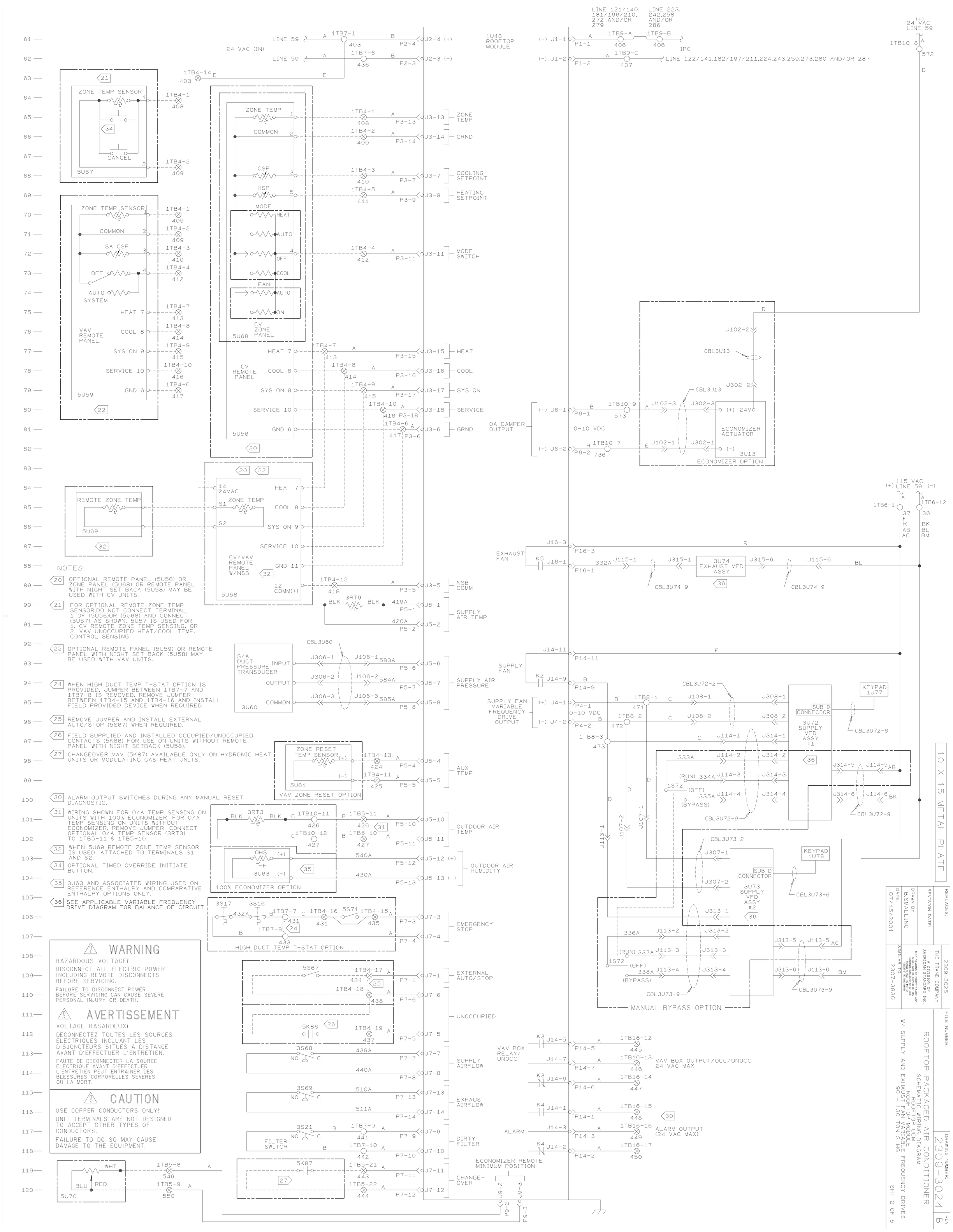
24 VAC (IN)
LINE 59
1TB7-1
1TB7-6
1TB4-14
1U48 ROOFTOP MODULE
J2-4 (+)
J2-3 (-)
LINE 121/140, 181/196/210, 272 AND/OR 279
LINE 223, 242,258 AND/OR 286
1TB9-A
1TB9-B
1TB9-C
IPC
LINE 122/141,182/197/211,224,243,259,273,280 AND/OR 287
24 VAC LINE 59
1TB10-8
ZONE TEMP SENSOR
CANCEL
5U57
COMMON
SA CSP
OFF
AUTO
SYSTEM
VAV REMOTE PANEL
HEAT 7
COOL 8
SYS ON 9
SERVICE 10
GND 6
5U59
ZONE TEMP
CSP
HSP
MODE
HEAT
AUTO
OFF
COOL
FAN
ON
CV ZONE PANEL
5U68
CV REMOTE PANEL
5U56
ZONE
TEMP
GRND
COOLING SETPOINT
HEATING SETPOINT
MODE SWITCH
SYS ON
SERVICE
REMOTE ZONE TEMP
5U69
CV/VAV REMOTE PANEL W/NSB
5U58
GND 11
COMM(+)
NSB COMM
SUPPLY AIR TEMP
S/A DUCT PRESSURE TRANSDUCER
INPUT
OUTPUT
3U60
SUPPLY AIR PRESSURE
ZONE RESET TEMP SENSOR
5U61
VAV ZONE RESET OPTION
AUX TEMP
OUTDOOR AIR TEMP
OHS
3U63
100% ECONOMIZER OPTION
OUTDOOR AIR HUMIDITY
HIGH DUCT TEMP T-STAT OPTION
EMERGENCY STOP
EXTERNAL AUTO/STOP
UNOCCUPIED
SUPPLY AIRFLOW
EXHAUST AIRFLOW
FILTER SWITCH
DIRTY FILTER
5U70
CHANGE-OVER
ECONOMIZER REMOTE MINIMUM POSITION
OA DAMPER OUTPUT
0-10 VDC
ECONOMIZER ACTUATOR
3U13
ECONOMIZER OPTION
EXHAUST FAN
3U74 EXHAUST VFD ASSY
SUPPLY FAN
SUPPLY FAN VARIABLE FREQUENCY DRIVE OUTPUT
3U72 SUPPLY VFD ASSY #1
KEYPAD 1U77
SUB D CONNECTOR
3U73 SUPPLY VFD ASSY #2
KEYPAD 1U78
MANUAL BYPASS OPTION
115 VAC LINE 59
VAV BOX RELAY/ UNOCC
VAV BOX OUTPUT/OCC/UNOCC 24 VAC MAX
ALARM
ALARM OUTPUT (24 VAC MAX)
NOTES:
20 OPTIONAL REMOTE PANEL (5U56) OR ZONE PANEL (5U68) OR REMOTE PANEL WITH NIGHT SET BACK (5U58) MAY BE USED WITH CV UNITS.
21 FOR OPTIONAL REMOTE ZONE TEMP SENSOR,DO NOT CONNECT TERMINAL 1 OF (5U56)OR (5U68) AND CONNECT (5U57) AS SHOWN. 5U57 IS USED FOR: 1. CV REMOTE ZONE TEMP SENSING, OR 2. VAV UNOCCUPIED HEAT/COOL TEMP. CONTROL SENSING
22 OPTIONAL REMOTE PANEL (5U59) OR REMOTE PANEL WITH NIGHT SET BACK (5U58) MAY BE USED WITH VAV UNITS.
24 WHEN HIGH DUCT TEMP T-STAT OPTION IS PROVIDED, JUMPER BETWEEN 1TB7-7 AND 1TB7-8 IS REMOVED. REMOVE JUMPER BETWEEN 1TB4-15 AND 1TB4-16 AND INSTALL FIELD PROVIDED DEVICE WHEN REQUIRED.
25 REMOVE JUMPER AND INSTALL EXTERNAL AUTO/STOP (5S67) WHEN REQUIRED.
26 FIELD SUPPLIED AND INSTALLED OCCUPIED/UNOCCUPIED CONTACTS (5K86) FOR USE ON UNITS WITHOUT REMOTE PANEL WITH NIGHT SETBACK (5U58).
27 CHANGEOVER VAV (5K87) AVAILABLE ONLY ON HYDRONIC HEAT UNITS OR MODULATING GAS HEAT UNITS.
30 ALARM OUTPUT SWITCHES DURING ANY MANUAL RESET DIAGNOSTIC.
31 WIRING SHOWN FOR O/A TEMP SENSING ON UNITS WITH 100% ECONOMIZER. FOR O/A TEMP SENSING ON UNITS WITHOUT ECONOMIZER, REMOVE JUMPER, CONNECT OPTIONAL O/A TEMP SENSOR (3RT3) TO 1TB5-11 & 1TB5-10.
32 WHEN 5U69 REMOTE ZONE TEMP SENSOR IS USED, ATTACHED TO TERMINALS S1 AND S2.
34 OPTIONAL TIMED OVERRIDE INITIATE BUTTON.
35 3U63 AND ASSOCIATED WIRING USED ON REFERENCE ENTHALPY AND COMPARATIVE ENTHALPY OPTIONS ONLY.
36 SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.
WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.
AVERTISSEMENT
VOLTAGE HASARDEUX!
DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.
CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.
10 X 15 METAL PLATE
REPLACES:
REVISION DATE:
DRAWN BY: B.SMALLING
DATE: 07/15/2001
SIMILAR TO: 2307-3830
2309-3025
THE TRANE COMPANY
A DIVISION OF AMERICAN STANDARD INC.
FILE NUMBER:
ROOFTOP PACKAGED AIR CONDITIONER
SCHEMATIC WIRING DIAGRAM
ROOFTOP UCM
ROOFTOP MODULE
W/ SUPPLY AND EXHAUST FAN VARIABLE FREQUENCY DRIVES
90 - 130 TON S_HG
SHT 2 OF 5
DRAWING NUMBER: 2309-3024
REV B