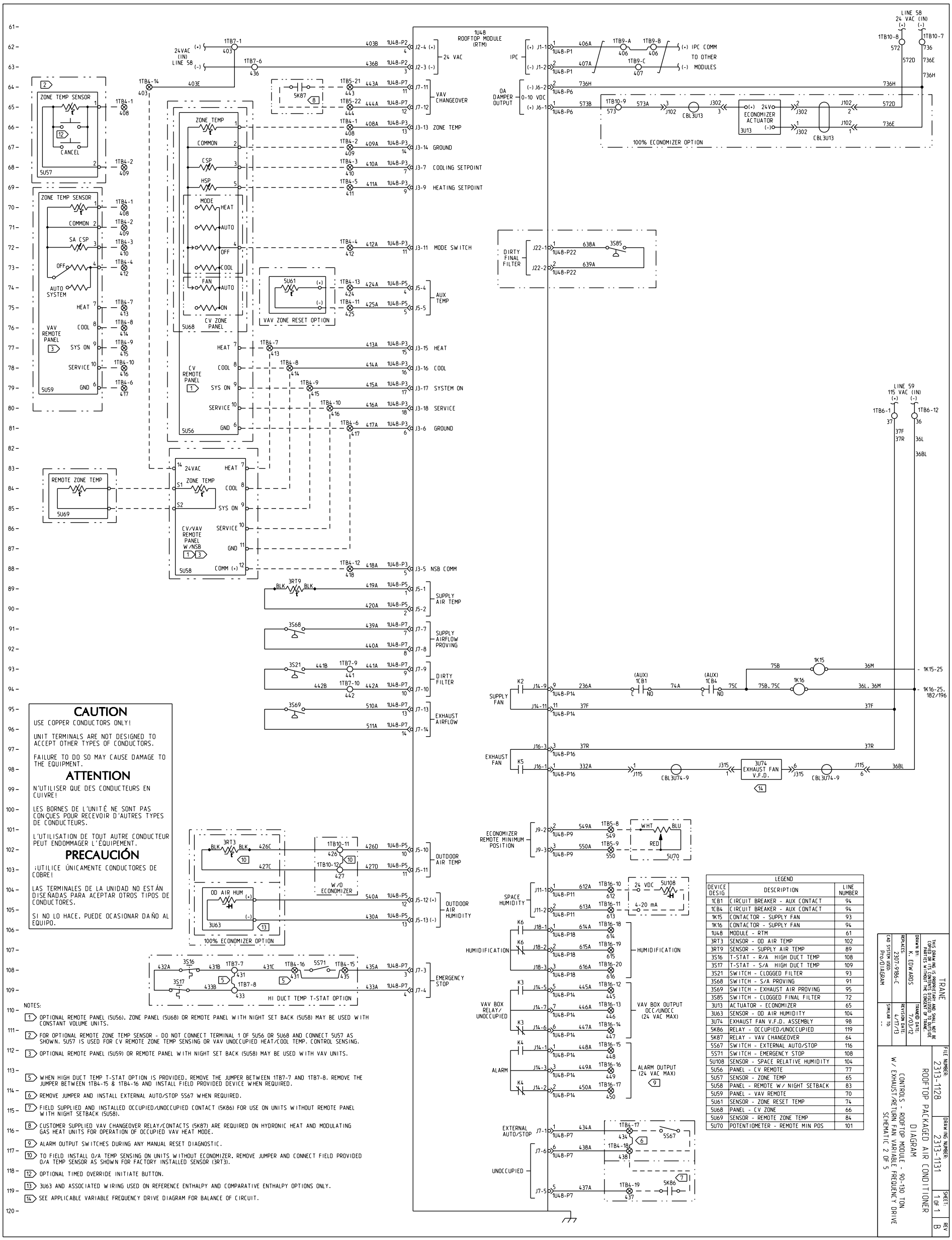

CAUTION

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.

ATTENTION

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'ÉQUIPEMENT.

PRECAUCIÓN

¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

NOTES:

1. OPTIONAL REMOTE PANEL (5U56), ZONE PANEL (5U68) OR REMOTE PANEL WITH NIGHT SET BACK (5U58) MAY BE USED WITH CONSTANT VOLUME UNITS.
2. FOR OPTIONAL REMOTE ZONE TEMP SENSOR - DO NOT CONNECT TERMINAL 1 OF 5U56 OR 5U68 AND CONNECT 5U57 AS SHOWN. 5U57 IS USED FOR CV REMOTE ZONE TEMP SENSING OR VAV UNOCCUPIED HEAT/COOL TEMP. CONTROL SENSING.
3. OPTIONAL REMOTE PANEL (5U59) OR REMOTE PANEL WITH NIGHT SET BACK (5U58) MAY BE USED WITH VAV UNITS.
5. WHEN HIGH DUCT TEMP T-STAT OPTION IS PROVIDED, REMOVE THE JUMPER BETWEEN 1TB7-7 AND 1TB7-8. REMOVE THE JUMPER BETWEEN 1TB4-15 & 1TB4-16 AND INSTALL FIELD PROVIDED DEVICE WHEN REQUIRED.
6. REMOVE JUMPER AND INSTALL EXTERNAL AUTO/STOP 5S67 WHEN REQUIRED.
7. FIELD SUPPLIED AND INSTALLED OCCUPIED/UNOCCUPIED CONTACT (5K86) FOR USE ON UNITS WITHOUT REMOTE PANEL WITH NIGHT SETBACK (5U58).
8. CUSTOMER SUPPLIED VAV CHANGEOVER RELAY/CONTACTS (5K87) ARE REQUIRED ON HYDRONIC HEAT AND MODULATING GAS HEAT UNITS FOR OPERATION OF OCCUPIED VAV HEAT MODE.
9. ALARM OUTPUT SWITCHES DURING ANY MANUAL RESET DIAGNOSTIC.
10. TO FIELD INSTALL O/A TEMP SENSING ON UNITS WITHOUT ECONOMIZER. REMOVE JUMPER AND CONNECT FIELD PROVIDED O/A TEMP SENSOR AS SHOWN FOR FACTORY INSTALLED SENSOR (3RT3).
12. OPTIONAL TIMED OVERRIDE INITIATE BUTTON.
13. 3U63 AND ASSOCIATED WIRING USED ON REFERENCE ENTHALPY AND COMPARATIVE ENTHALPY OPTIONS ONLY.
14. SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.

LEGEND		
DEVICE DESIG	DESCRIPTION	LINE NUMBER
1CB1	CIRCUIT BREAKER - AUX CONTACT	94
1CB4	CIRCUIT BREAKER - AUX CONTACT	94
1K15	CONTACTOR - SUPPLY FAN	93
1K16	CONTACTOR - SUPPLY FAN	94
1U48	MODULE - RTM	61
3RT3	SENSOR - OD AIR TEMP	102
3RT9	SENSOR - SUPPLY AIR TEMP	89
3S16	T-STAT - R/A HIGH DUCT TEMP	108
3S17	T-STAT - S/A HIGH DUCT TEMP	109
3S21	SWITCH - CLOGGED FILTER	93
3S68	SWITCH - S/A PROVING	91
3S69	SWITCH - EXHAUST AIR PROVING	95
3S85	SWITCH - CLOGGED FINAL FILTER	72
3U13	ACTUATOR - ECONOMIZER	65
3U63	SENSOR - OD AIR HUMIDITY	104
3U74	EXHAUST FAN V.F.D. ASSEMBLY	98
5K86	RELAY - OCCUPIED/UNOCCUPIED	119
5K87	RELAY - VAV CHANGEOVER	64
5S67	SWITCH - EXTERNAL AUTO/STOP	116
5S71	SWITCH - EMERGENCY STOP	108
5U108	SENSOR - SPACE RELATIVE HUMIDITY	104
5U56	PANEL - CV REMOTE	77
5U57	SENSOR - ZONE TEMP	65
5U58	PANEL - REMOTE W/ NIGHT SETBACK	83
5U59	PANEL - VAV REMOTE	70
5U61	SENSOR - ZONE RESET TEMP	74
5U68	PANEL - CV ZONE	66
5U69	SENSOR - REMOTE ZONE TEMP	84
5U70	POTENTIOMETER - REMOTE MIN POS	101

TRANE

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DRAWN BY: K. EDWARDS
TRANE® DATE: 7/03/12
REPLACES: 2307-9186-C
REVISION DATE: 1/17/13
CAD SYSTEM USED: Pro/DIAGRAM
SIMILAR TO: --

FILE NUMBER: 2313-1128
DRAWING NUMBER: 2313-1131
SHEET: 1 OF 1
REV: B

ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM

CONTROLS - ROOFTOP MODULE - 90-130 TON W/ EXHAUST/RETURN FAN VARIABLE FREQUENCY DRIVE SCHEMATIC 2 OF 5