NOTES:

1. WIRING SHOWN IS FOR 230V. FOR 208V MOVE ALL WIRES FROM 230V TERMINAL TO 208V TERMINAL ON TNS1,TNS2 AND TNS5.
3. WIRE NUMBER 36AE IS NOT USED FOR TC_420.
4. REQUIRED FOR OPTIONAL REFERENCE ENTHALPY CONTROL
5. REQUIRED FOR OPTIONAL COMPARATIVE ENTHALPY CONTROL
6. LPC1 IS A LOW PRESSURE CUTOUT SWITCH USED FOR COMPRESSOR PROTECTION. CAUTION!! DO NOT JUMPER ACROSS SWITCH UNDER ANY CIRCUMSTANCES. TO DISABLE COMPRESSORS, REMOVE JUMPERS AND CONNECT FIELD SUPPLIED DEVICE.
7. WIRING SHOWN IS FOR UNIT WITH INDOOR FAN MOTOR DRIVES. WHEN UNIT HAS OPTIONAL VARIABLE FREQUENCY DRIVE SEE INSETS A,B,C.
8. NOT USED ON UNITS WITH VARIABLE FREQUENCY DRIVES (SEE INSET B).
9. XFR CAN BE FOUND ON LINES 21,26 & 113.
10. REMOVE JUMPER BETWEEN LTB-5 AND LTB-6 AND INSTALL FIELD PROVIDE DEVICE WHEN REQUIRED.
11. TO ENABLE COMPRESSOR LEAD/LAG OPERATION, CUT WIRE 36AG.
12. RELAY ENERGIZED DURING ALL CV MODES: UNOCC, DWU, MWU.
14. SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.
15. INSTALL OPTIONAL REMOTE SENSOR TO TERMINALS S1 AND S2 WHEN REQUIRED. SEE PROGRAMMABLE ZONE SENSOR / REMOTE PANEL W/NSB LITERATURE FOR OPTION CONFIGURATION.
16. TERMINALS 7,8,9 & 10 ARE FOR OPTIONAL INDICATORS.
17. INSET D IS FOR OPTIONAL PROGRAMMABLE ZONE SENSOR.
18. AUXILIARY RELAY ENERGIZED DURING OCCUPIED PERIODS.
19. 0-10 VDC DUCT MOUNTED SENSOR ONLY.
20. PROVIDE JUMPER BETWEEN RTRM J6-2 & RTRM J6-4 TO ENABLE AUTO MODE WHEN NO OTHER MODE INPUT IS USED.
21. PROVIDE CONTACT CLOSURE BETWEEN RTRM J6-11 & RTRM J6-12 TO ENABLE UNOCCUPIED MODE WHEN NOT USING PROGRAMMABLE ZSM/REMOTE PANEL OR BMS.

⚠ 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.

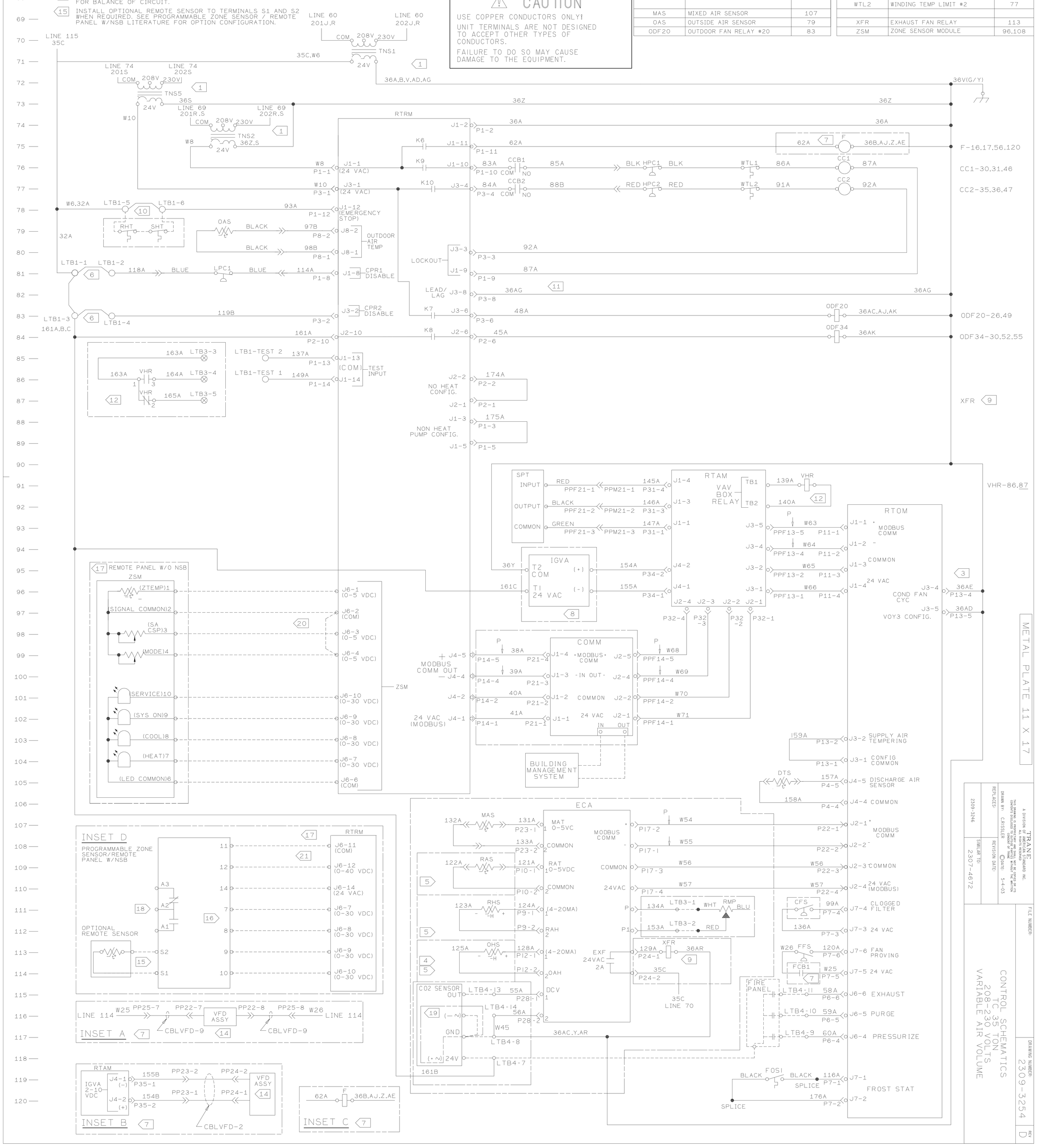
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

** LEGEND **

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CC1	COMPRESSOR CONTACTOR #1	76
CC2	COMPRESSOR CONTACTOR #2	77
CFS	CLOGGED FILTER SWITCH	111
CO2 SENSOR	CO2 SENSOR	115
COMM	COMMUNICATIONS MODULE	99
DTS	DISCHARGE TEMP SENSOR	105
ECA	ECONOMIZER ACTUATOR	107
F	IDM FAN CONTACTOR	75
F	IDM FAN RELAY	120
FFS	FAN FAILURE SWITCH	113
FIRE PANEL	FIRE PANEL	115
FOS1	FROSTAT 1	119
HPC1	HIGH PRESSURE CUTOUT #1	76
HPC2	HIGH PRESURE CUTOUT #2	77
IGVA	INLET GUIDE VANE ACTUATOR	95
LPC1	LOW PRESSURE CUTOUT #1	81
MAS	MIXED AIR SENSOR	107
OAS	OUTSIDE AIR SENSOR	79
ODF20	OUTDOOR FAN RELAY #20	83

** LEGEND **

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
ODF34	OUTDOOR FAN RELAY #34	84
OHS	OUTSIDE HUMIDITY SENSOR	113
RAS	RETURN AIR SENSOR	109
RHS	RETURN HUMIDITY SENSOR	111
RHT	RETURN HIGH TEMP.	79
RMP	REMOTE MINIMUM POSITION	111
RTAM	VAV MODULE	91
RTOM	OPTIONS MODULE	93
RTRM	REFRIGERATION MODULE	74,108
SHT	SUPPLY HIGH TEMP.	79
SPT	STATIC PRESS. TRANSDUCER	91
THERMOSTAT	THERMOSTAT	88
TNS1	CONTROL TRANSFORMER	70
TNS2	CONTROL TRANSFORMER	74
TNS5	CONTROL TRANSFORMER	72
VFD	VARIABLE FREQUENCY DRIVE	116,119
VHR	VAV BOX RELAY	86,87,91
WTL1	WINDING TEMP LIMIT #1	76
WTL2	WINDING TEMP LIMIT #2	77
XFR	EXHAUST FAN RELAY	113
ZSM	ZONE SENSOR MODULE	96,108



METAL PLATE 11 X 17

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REPLACES: 2309-3246
DRAWN BY: C.RISSLER
DATE: 5-4-03
REVISION DATE:
SIMILAR TO: 2307-4672

FILE NUMBER:

CONTROL SCHEMATICS
TC 35 TON
208-230 VOLTS
VARIABLE AIR VOLUME

DRAWING NUMBER: 2309-3254
REV D