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_600.
4. REQUIRED FOR OPTIONAL REFERENCE ENTHALPY CONTROL
5. REQUIRED FOR OPTIONAL COMPARATIVE ENTHALPY CONTROL
6. LPC1 & LPC2 ARE LOW PRESSURE CUTOUT SWITCHES USED FOR COMPRESSOR PROTECTION. CAUTION!! DO NOT JUMPER ACROSS SWITCHES 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.

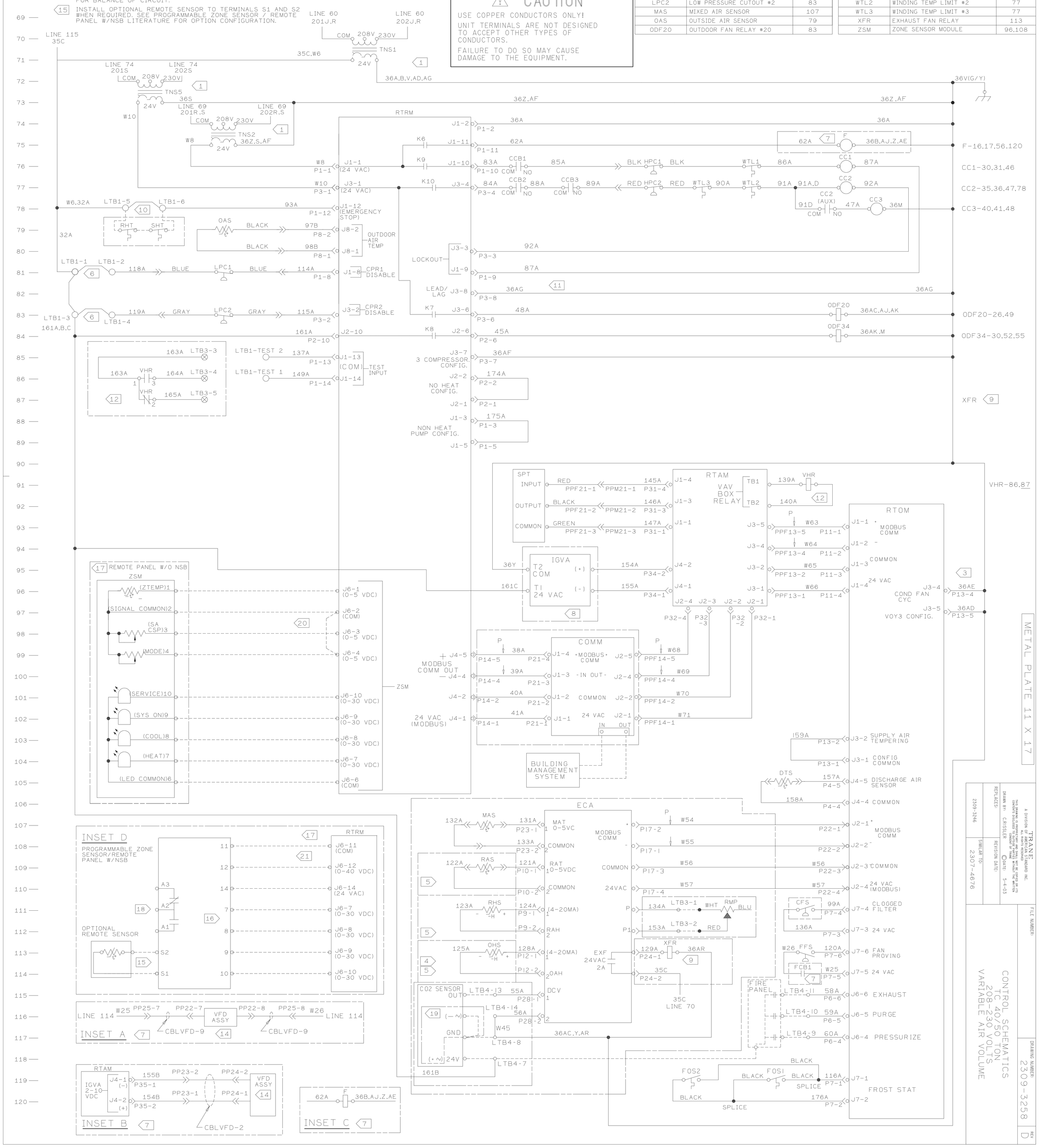
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

** LEGEND **

| DEVICE DESIGNATION | DESCRIPTION | LINE NUMBER |
|---|---|---|
| CC1 | COMPRESSOR CONTACTOR #1 | 76 |
| CC2 | COMPRESSOR CONTACTOR #2 | 77 |
| CC3 | COMPRESSOR CONTACTOR #3 | 78 |
| 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 |
| FOS2 | FROSTAT 2 | 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 |
| LPC2 | LOW PRESSURE CUTOUT #2 | 83 |
| 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 |
| WTL3 | WINDING TEMP LIMIT #3 | 77 |
| XFR | EXHAUST FAN RELAY | 113 |
| ZSM | ZONE SENSOR MODULE | 96,108 |

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DRAWN BY: CRISSLER
DATE: 5-4-03
REPLACES: 2309-3246
REVISION DATE:
SIMILAR TO: 2307-4676

CONTROL SCHEMATICS
TC 40/50 TON
208-230 VOLTS
VARIABLE AIR VOLUME

FILE NUMBER:
DRAWING NUMBER: 2309-3258
REV D