⚠ 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.

NOTES:

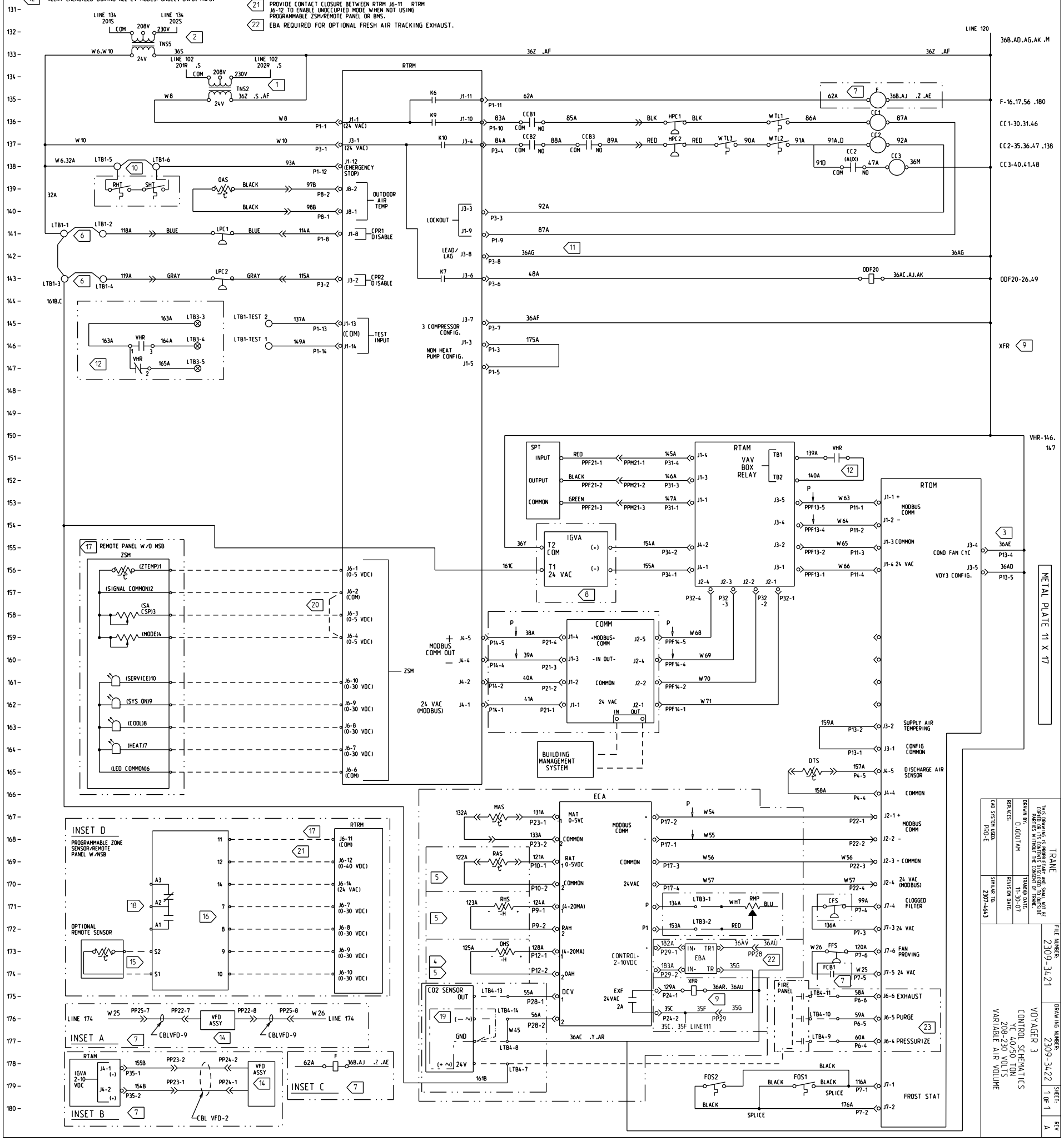
1. WIRING SHOWN IS FOR 230V. FOR 208V MOVE ALL WIRES FROM 230V TERMINAL TO 208V TERMINAL ON TNS2.
2. WIRING SHOWN IS FOR 230V. FOR 208V MOVE ALL WIRES FROM 230V TERMINAL TO 208V TERMINAL ON TNS5.
3. WIRE NUMBER 36AE IS NOT USED FOR YC_600.
4. REQUIRED FOR OPTIONAL REFERENCE ENTHALPY CONTROL
5. REQUIRED 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. AND C.
8. NOT USED ON UNITS WITH VARIABLE FREQUENCY DRIVES (SEE INSET B).
9. XFR CAN BE FOUND ON LINES 20.21. & 175.
10. REMOVE JUMPER BETWEEN LTB-5 AND LTB-6 AND INSTALL FIELD PROVIDED 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.
22. EBA REQUIRED FOR OPTIONAL FRESH AIR TRACKING EXHAUST.
23. OPTIONAL VENTILATION OVERRIDE

• • LEGEND • •

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CC1	COMPRESSOR CONTACTOR #1	136
CC2	COMPRESSOR CONTACTOR #2	137
CC3	COMPRESSOR CONTACTOR #3	138
CFS	CLOGGED FILTER SWITCH	171
CO2 SENSOR	CO2 SENSOR	175
COMM	COMMUNICATIONS MODULE	159
DTS	DISCHARGE TEMP SENSOR	165
ECA	ECONOMIZER ACTUATOR	167
F	IDM FAN CONTACTOR	135
F	IDM FAN RELAY	180
FIRE PANEL	FIRE PANEL	175
FFS	FAN FAILURE SWITCH	173
FOS1	FROST STAT 1	179
FOS2	FROST STAT 2	179
HPC1	HIGH PRESSURE CUTOUT #1	136
HPC2	HIGH PRESURE CUTOUT #2	137
IGVA	INLET GUIDE VANE ACTUATOR	155
LPC1	LOW PRESSURE CUTOUT #1	141
LPC2	LOW PRESSURE CUTOUT #2	143
MAS	MIXED AIR SENSOR	167
OAS	OUTSIDE AIR SENSOR	139
EBA	EXHAUST BLADE ACTUATOR	173

• • LEGEND • •

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
ODF20	OUTDOOR FAN RELAY #20	143
OHS	OUTSIDE HUMIDITY SENSOR	173
RAS	RETURN AIR SENSOR	169
RHS	RETURN HUMIDITY SENSOR	171
RHT	RETURN HIGH TEMP.	139
RMP	REMOTE MINIMUM POSITION	171
RTAM	VAV MODULE	151.179
RTOM	OPTIONS MODULE	153
RTRM	REFRIGERATION MODULE	134.168
SHT	SUPPLY HIGH TEMP.	139
SPT	STATIC PRESS. TRANSDUCER	151
THERMOSTAT	THERMOSTAT	148
TNS2	CONTROL TRANSFORMER	134
TNS5	CONTROL TRANSFORMER	132
VFD	VARIABLE FREQUENCY DRIVE	176.179
VHR	VAV BOX RELAY	146.147 151
WTL1	WINDING TEMP LIMIT #1	136
WTL2	WINDING TEMP LIMIT #2	137
WTL3	WINDING TEMP LIMIT #3	137
XFR	EXHAUST FAN RELAY	175
ZSM	ZONE SENSOR MODULE	156.168



METAL PLATE 11 X 17

TRANE

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SHEET: 1 OF 1
REV A

VOYAGER 3
CONTROL SCHEMATICS
YC 40/50 TON
208-230 VOLTS
VARIABLE AIR VOLUME