IMPORTANT!

DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1K16 (AUX)	SUPPLY FAN CONTACTOR	3
1TB8	CONTROL TERMINAL BLOCK	
1U50	HEAT MODULE	10.14.27
3U72	SUPPLY VAR. FREQ. DRIVE	34
4B11	COMBUSTION BLOWER MOTOR	17
4E1	ELECTRODE	28
4HR11	GAS VALVE HEATER	6
4K117	HEAT RELAY	14
4K118	HEAT INTERLOCK RELAY	37
4K119	ACTUATOR INTERLOCK RELAY	38
4K120	HEAT FAIL RELAY	22
4L22	GAS SOLENOID VALVE	23.36
4L9	PILOT SOLENOID	23
4S24	CONTROL CIRCUIT SWITCH	3.4
4S25	COMBUSTION AIR FLOW SWITCH	18
4S26	HIGH LIMIT CUTOUT	21
4S38	SUPPLY AIR FLOW SWITCH	18
4S75	GAS VALVE HEATER T-STAT	6
4T7	IGNITION TRANSFORMER	25
4T19	24 VOLT TRANSFORMER	8
4TB14,4TB15	CONTROL TERMINAL BLOCK	
4U18	IGNITION CONTROL BOARD	21
4U19	FLAME ROD	33
4U82	COMBUSTION AIR ACTUATOR	12.23

CAUTION

IF ANY OF THE EXISTING WIRING AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED. IT MUST BE REPLACED WITH WIRING RATED FOR 105°C OR ITS EQUIVALENT

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	INSIDE UNIT CONTROL PANEL
3	AIR HANDLER SECTION
4	GAS HEAT SECTION

⚠ 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.

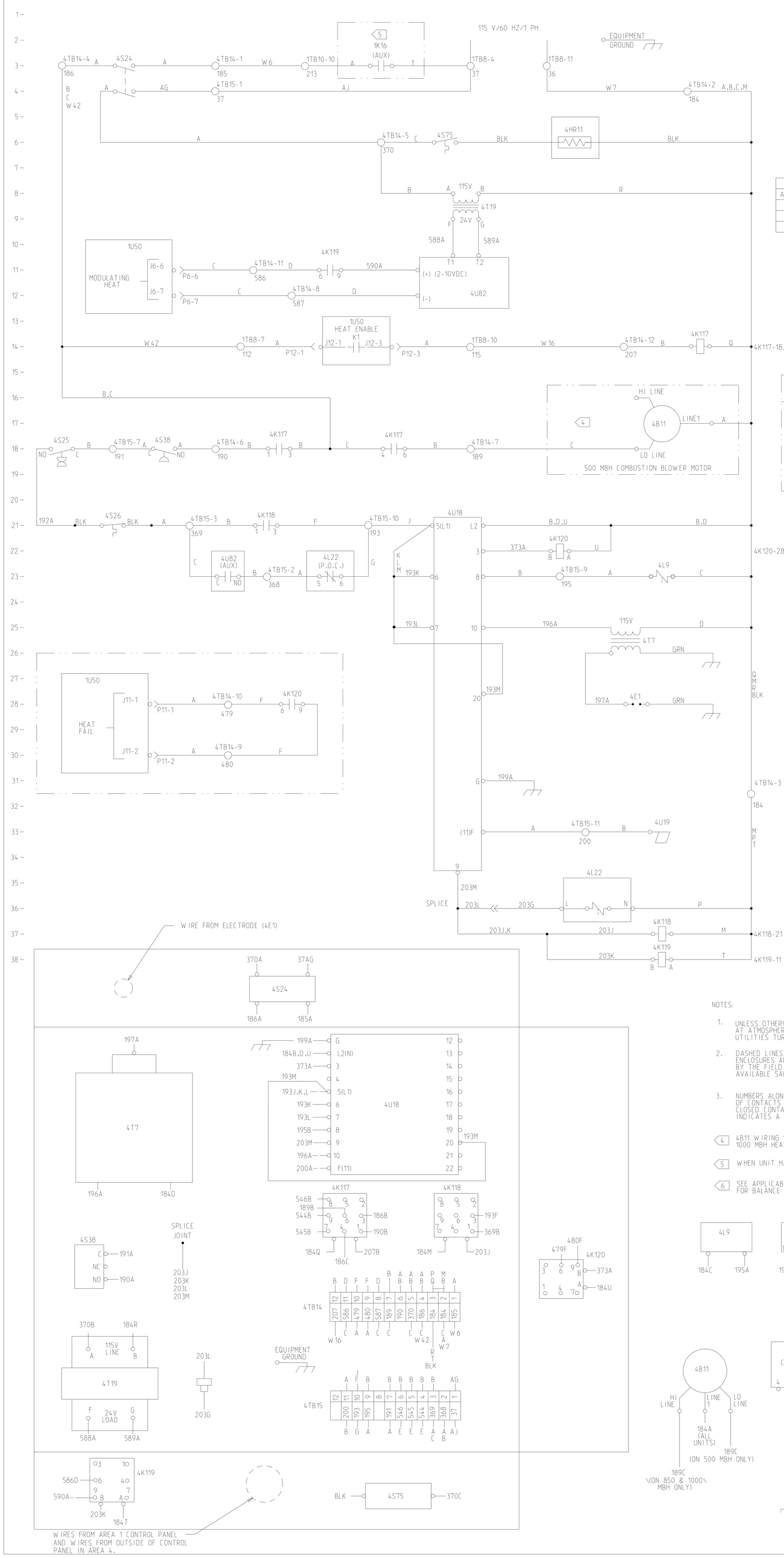
FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

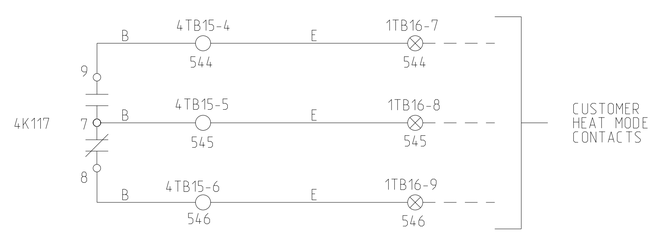
CAUTION

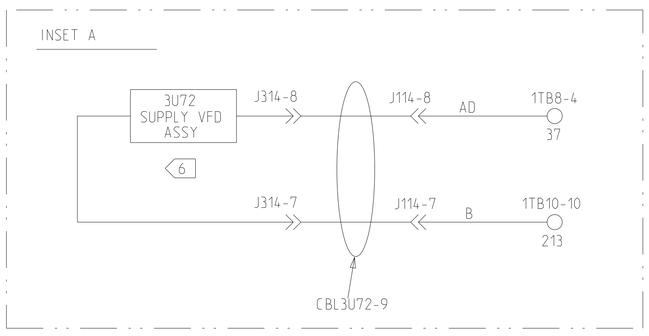
USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.







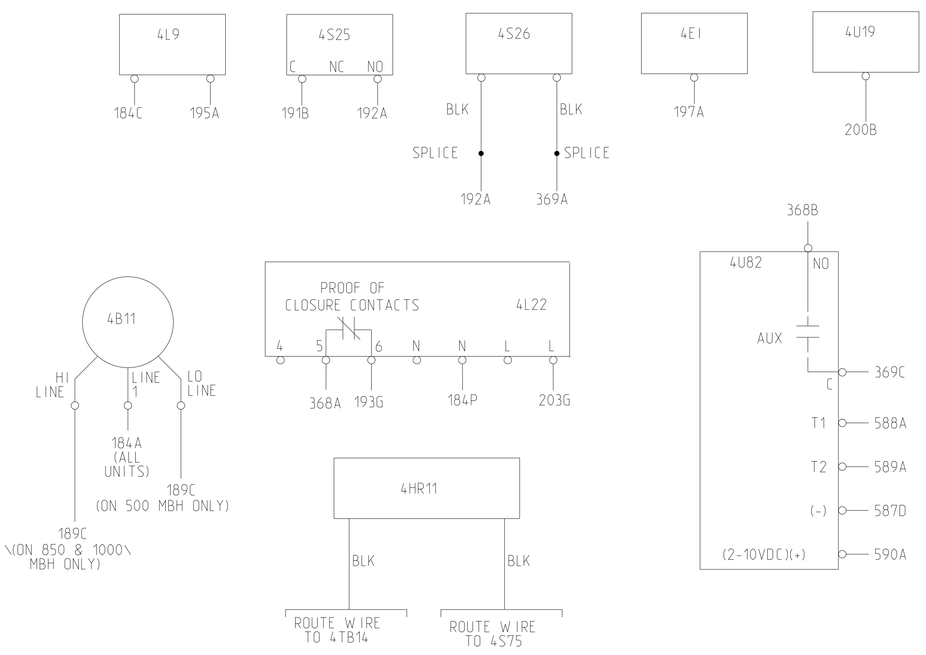
NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE CO.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROWHEAD BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

4 — 4B11 WIRING SHOWN FOR 500 MBH HEATERS ONLY. SEE INSET "B" FOR 850 1000 MBH HEATER WIRING.

5 — WHEN UNIT HAS SUPPLY FAN V.F.D. OPTION SEE INSET "A" FOR CONNECTIONS.

6 — SEE APPLICABLE 3U72 SUPPLY VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.



9.5 X 14.25 METAL PLATE

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DRAWN BY: ANDY S. © DATE: 11-08-06
REPLACES: REVISION DATE:
CAD SYSTEM USED: PROE
SIMILAR TO: 2309-3409 --

FILE NUMBER:
DRAWING NUMBER: 2307-9103
SHEET: 1 OF 1
REV --

ROOFTOP PACKAGED AIR CONDITIONER
DIAGRAM
NAT GAS HT SCHEM
MODULATING NATURAL GAS HEAT
20-130 TON SFHF SFHG