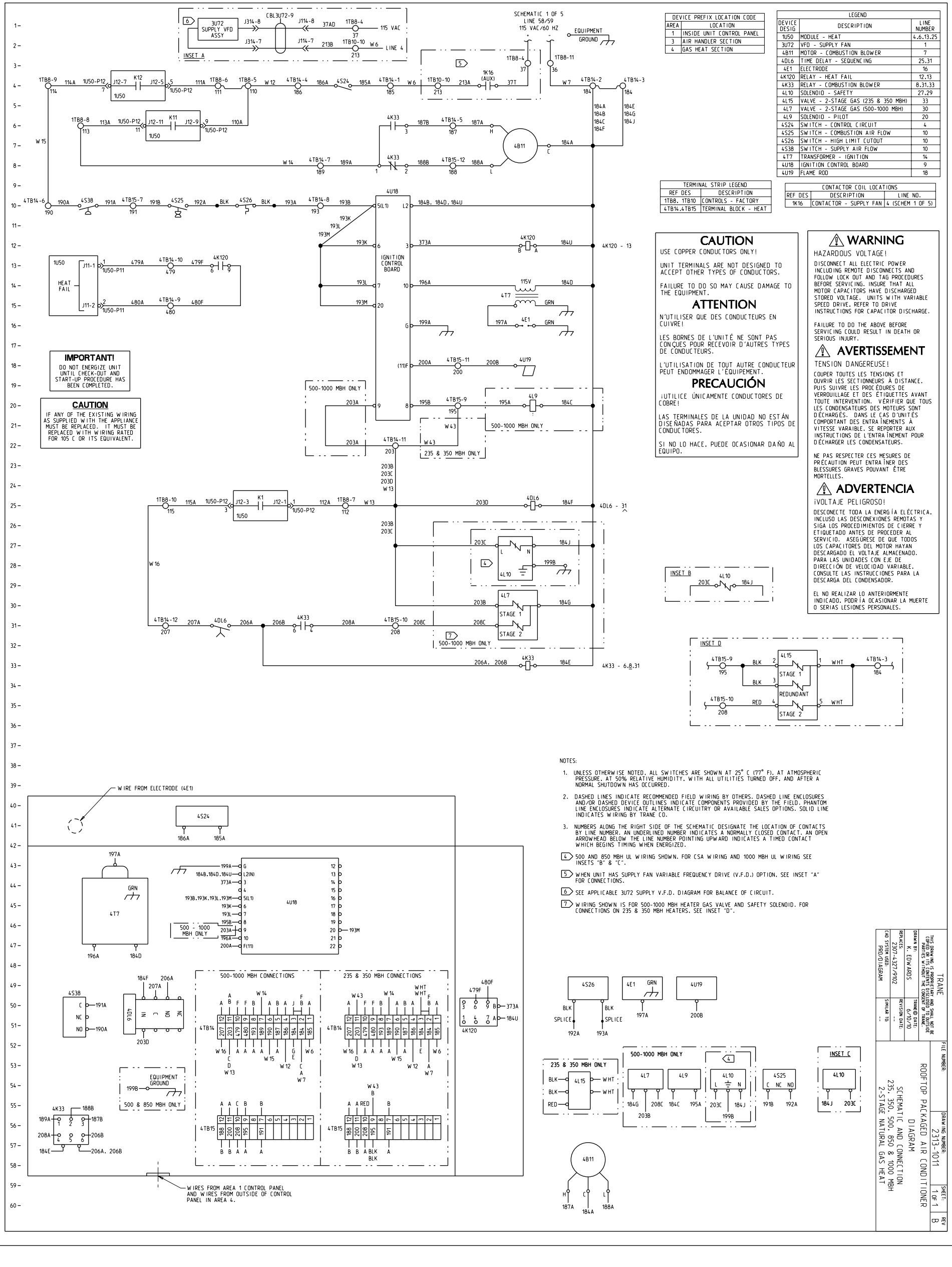

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	INSIDE UNIT CONTROL PANEL
3	AIR HANDLER SECTION
4	GAS HEAT SECTION

LEGEND		
DEVICE DESIG	DESCRIPTION	LINE NUMBER
1U50	MODULE - HEAT	4.6.13.25
3U72	VFD - SUPPLY FAN	1
4B11	MOTOR - COMBUSTION BLOWER	7
4DL6	TIME DELAY - SEQUENCING	25.31
4E1	ELECTRODE	16
4K120	RELAY - HEAT FAIL	12.13
4K33	RELAY - COMBUSTION BLOWER	8.31.33
4L10	SOLENOID - SAFETY	27.29
4L15	VALVE - 2-STAGE GAS (235 & 350 MBH)	33
4L7	VALVE - 2-STAGE GAS (500-1000 MBH)	30
4L9	SOLENOID - PILOT	20
4S24	SWITCH - CONTROL CIRCUIT	4
4S25	SWITCH - COMBUSTION AIR FLOW	10
4S26	SWITCH - HIGH LIMIT CUTOUT	10
4S38	SUPPLY AIR FLOW	10
4T7	TRANSFORMER - IGNITION	14
4U18	IGNITION CONTROL BOARD	9
4U19	FLAME ROD	18

TERMINAL STRIP LEGEND	
REF DES	DESCRIPTION
1TB8, 1TB10	CONTROLS - FACTORY
4TB14,4TB15	TERMINAL BLOCK - HEAT

CONTACTOR COIL LOCATIONS		
REF DES	DESCRIPTION	LINE NO.
1K16	CONTACTOR - SUPPLY FAN	4 (SCHEM 1 OF 5)

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

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.

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.

⚠ WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS À DISTANCE. PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.

⚠ ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

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.

4 500 AND 850 MBH UL WIRING SHOWN. FOR CSA WIRING AND 1000 MBH UL WIRING SEE INSETS "B" & "C".

5 WHEN UNIT HAS SUPPLY FAN VARIABLE FREQUENCY DRIVE (V.F.D.) OPTION, SEE INSET "A" FOR CONNECTIONS.

6 SEE APPLICABLE 3U72 SUPPLY V.F.D. DIAGRAM FOR BALANCE OF CIRCUIT.

7 WIRING SHOWN IS FOR 500-1000 MBH HEATER GAS VALVE AND SAFETY SOLENOID. FOR CONNECTIONS ON 235 & 350 MBH HEATERS, SEE INSET "D".

TRANE
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DRAWN BY: K. EDWARDS
TRANE® DATE: 6/10/10
REVISION DATE:
REPLACES: 2307-4327/9102
SIMILAR TO: --
CAD SYSTEM USED: PRO/DIAGRAM
FILE NUMBER:
DRAWING NUMBER: 2313-1011
SHEET: 1 OF 1
REV B

ROOFTOP PACKAGED AIR CONDITIONER
DIAGRAM
SCHEMATIC AND CONNECTION
235, 350, 500, 850 & 1000 MBH
2-STAGE NATURAL GAS HEAT