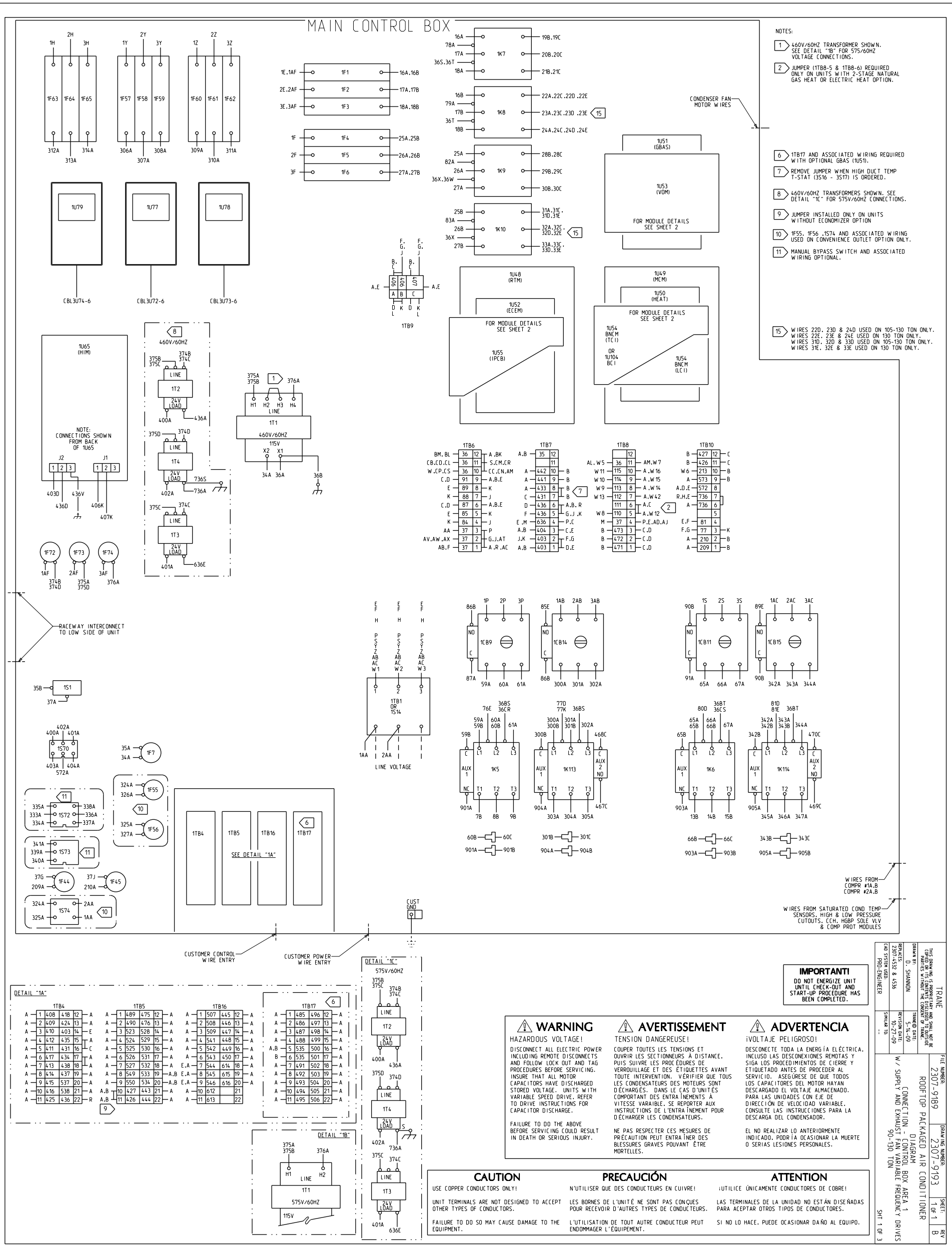
MAIN CONTROL BOX
NOTES:
1 460V/60HZ TRANSFORMER SHOWN. SEE DETAIL "1B" FOR 575/60HZ VOLTAGE CONNECTIONS.
2 JUMPER (1TB8-5 & 1TB8-6) REQUIRED ONLY ON UNITS WITH 2-STAGE NATURAL GAS HEAT OR ELECTRIC HEAT OPTION.
6 1TB17 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS (1U51).
7 REMOVE JUMPER WHEN HIGH DUCT TEMP T-STAT (3S16 - 3S17) IS ORDERED.
8 460V/60HZ TRANSFORMERS SHOWN. SEE DETAIL "1C" FOR 575V/60HZ CONNECTIONS.
9 JUMPER INSTALLED ONLY ON UNITS WITHOUT ECONOMIZER OPTION
10 1F55, 1F56, 1S74 AND ASSOCIATED WIRING USED ON CONVENIENCE OUTLET OPTION ONLY.
11 MANUAL BYPASS SWITCH AND ASSOCIATED WIRING OPTIONAL.
15 WIRES 22D, 23D & 24D USED ON 105-130 TON ONLY. WIRES 22E, 23E & 24E USED ON 130 TON ONLY. WIRES 31D, 32D & 33D USED ON 105-130 TON ONLY. WIRES 31E, 32E & 33E USED ON 130 TON ONLY.
CONDENSER FAN MOTOR WIRES
1U51 (GBAS)
1U53 (VOM)
FOR MODULE DETAILS SEE SHEET 2
1U48 (RTM)
1U52 (ECEM)
1U55 (IPCB)
1U49 (MCM)
1U50 (HEAT)
1U54 BNCM (TCI) OR 1U104 BCI
1U54 BNCM (LCI)
1U79
1U77
1U78
CBL3U74-6
CBL3U72-6
CBL3U73-6
1U65 (HIM)
NOTE: CONNECTIONS SHOWN FROM BACK OF 1U65
1TB9
1TB6
1TB7
1TB8
1TB10
1F72
1F73
1F74
RACEWAY INTERCONNECT TO LOW SIDE OF UNIT
1S1
1S70
1F7
1F55
1F56
1S72
1S73
1S74
1F44
1F45
1TB1 OR 1S14
LINE VOLTAGE
1CB9
1CB14
1CB11
1CB15
1K5
1K6
1K113
1K114
1TB4
1TB5
1TB16
1TB17
SEE DETAIL "1A"
CUST GND
WIRES FROM COMPR #1A,B COMPR #2A,B
WIRES FROM SATURATED COND TEMP SENSORS, HIGH & LOW PRESSURE CUTOUTS, CCH, HGBP SOLE VLV & COMP PROT MODULES
CUSTOMER CONTROL WIRE ENTRY
CUSTOMER POWER WIRE ENTRY
DETAIL "1A"
DETAIL "1B"
DETAIL "1C"
575V/60HZ
IMPORTANT!
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.
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.
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.
PRECAUCIÓN
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.
ATTENTION
¡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.
TRANE
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DRAWN BY: D. SHANNON
TRANE® DATE: 5-14-09
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REPLACES: 2307-4532 & 4536
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SIMILAR TO: --
FILE NUMBER: 2307-9189
DRAWING NUMBER: 2307-9193
SHEET: 1 OF 1
REV B
ROOFTOP PACKAGED AIR CONDITIONER
DIAGRAM
CONNECTION - CONTROL BOX AREA 1
W/ SUPPLY AND EXHAUST FAN VARIABLE FREQUENCY DRIVES
90-130 TON
SHT 1 OF 3