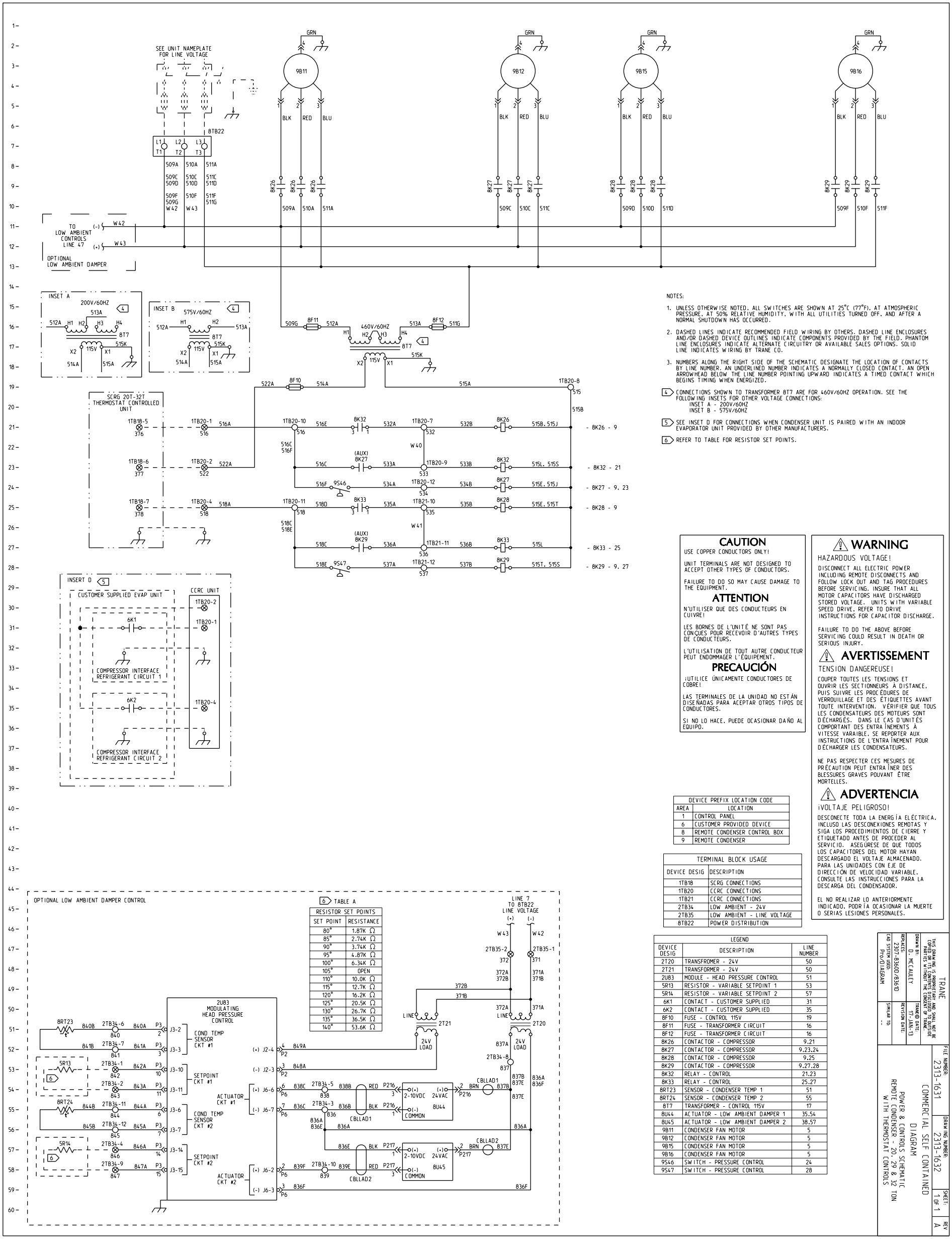

NOTES:

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 CONNECTIONS SHOWN TO TRANSFORMER 8T7 ARE FOR 460V/60HZ OPERATION. SEE THE FOLLOWING INSETS FOR OTHER VOLTAGE CONNECTIONS:
INSET A - 200V/60HZ
INSET B - 575V/60HZ

5 SEE INSET D FOR CONNECTIONS WHEN CONDENSER UNIT IS PAIRED WITH AN INDOOR EVAPORATOR UNIT PROVIDED BY OTHER MANUFACTURERS.

6 REFER TO TABLE FOR RESISTOR SET POINTS.

6 TABLE A

RESISTOR SET POINTS	
SET POINT	RESISTANCE
80°	1.87K Ω
85°	2.74K Ω
90°	3.74K Ω
95°	4.87K Ω
100°	6.34K Ω
105°	OPEN
110°	10.0K Ω
115°	12.7K Ω
120°	16.2K Ω
125°	20.5K Ω
130°	26.7K Ω
135°	36.5K Ω
140°	53.6K Ω

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 VARAIBLE, 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.

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL
6	CUSTOMER PROVIDED DEVICE
8	REMOTE CONDENSER CONTROL BOX
9	REMOTE CONDENSER

TERMINAL BLOCK USAGE	
DEVICE DESIG	DESCRIPTION
1TB18	SCRG CONNECTIONS
1TB20	CCRC CONNECTIONS
1TB21	CCRC CONNECTIONS
2TB34	LOW AMBIENT - 24V
2TB35	LOW AMBIENT - LINE VOLTAGE
8TB22	POWER DISTRIBUTION

LEGEND		
DEVICE DESIG	DESCRIPTION	LINE NUMBER
2T20	TRANSFROMER - 24V	50
2T21	TRANSFORMER - 24V	50
2U83	MODULE - HEAD PRESSURE CONTROL	51
5R13	RESISTOR - VARIABLE SETPOINT 1	53
5R14	RESISTOR - VARIABLE SETPOINT 2	57
6K1	CONTACT - CUSTOMER SUPPLIED	31
6K2	CONTACT - CUSTOMER SUPPLIED	35
8F10	FUSE - CONTROL 115V	19
8F11	FUSE - TRANSFORMER CIRCUIT	16
8F12	FUSE - TRANSFORMER CIRCUIT	16
8K26	CONTACTOR - COMPRESSOR	9.21
8K27	CONTACTOR - COMPRESSOR	9.23.24
8K28	CONTACTOR - COMPRESSOR	9.25
8K29	CONTACTOR - COMPRESSOR	9.27.28
8K32	RELAY - CONTROL	21.23
8K33	RELAY - CONTROL	25.27
8RT23	SENSOR - CONDENSER TEMP 1	51
8RT24	SENSOR - CONDENSER TEMP 2	55
8T7	TRANSFORMER - CONTROL 115V	17
8U44	ACTUATOR - LOW AMBIENT DAMPER 1	35.54
8U45	ACTUATOR - LOW AMBIENT DAMPER 2	38.57
9B11	CONDENSER FAN MOTOR	5
9B12	CONDENSER FAN MOTOR	5
9B15	CONDENSER FAN MOTOR	5
9B16	CONDENSER FAN MOTOR	5
9S46	SWITCH - PRESSURE CONTROL	24
9S47	SWITCH - PRESSURE CONTROL	28

THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR DISTRIBUTED WITHOUT THE CONSENT OF TRANE

TRANE

DRAWN BY: D. MCCAULEY
DATE: 17-JAN-13
REPLACES: 2307-8360D/8361D
CAD SYSTEM/CODE: Pro/DIAGRAM
REVISION DATE:
SIMILAR TO: --

FILE NUMBER: 2313-1631
DRAWING NUMBER: 2313-1632
SHEET: 1 OF 1
REV: A

COMMERCIAL SELF CONTAINED DIAGRAM
POWER & CONTROLS SCHEMATIC
REMOTE CONDENSER - 20, 29 & 32 TON
WITH THERMOSTAT CONTROLS