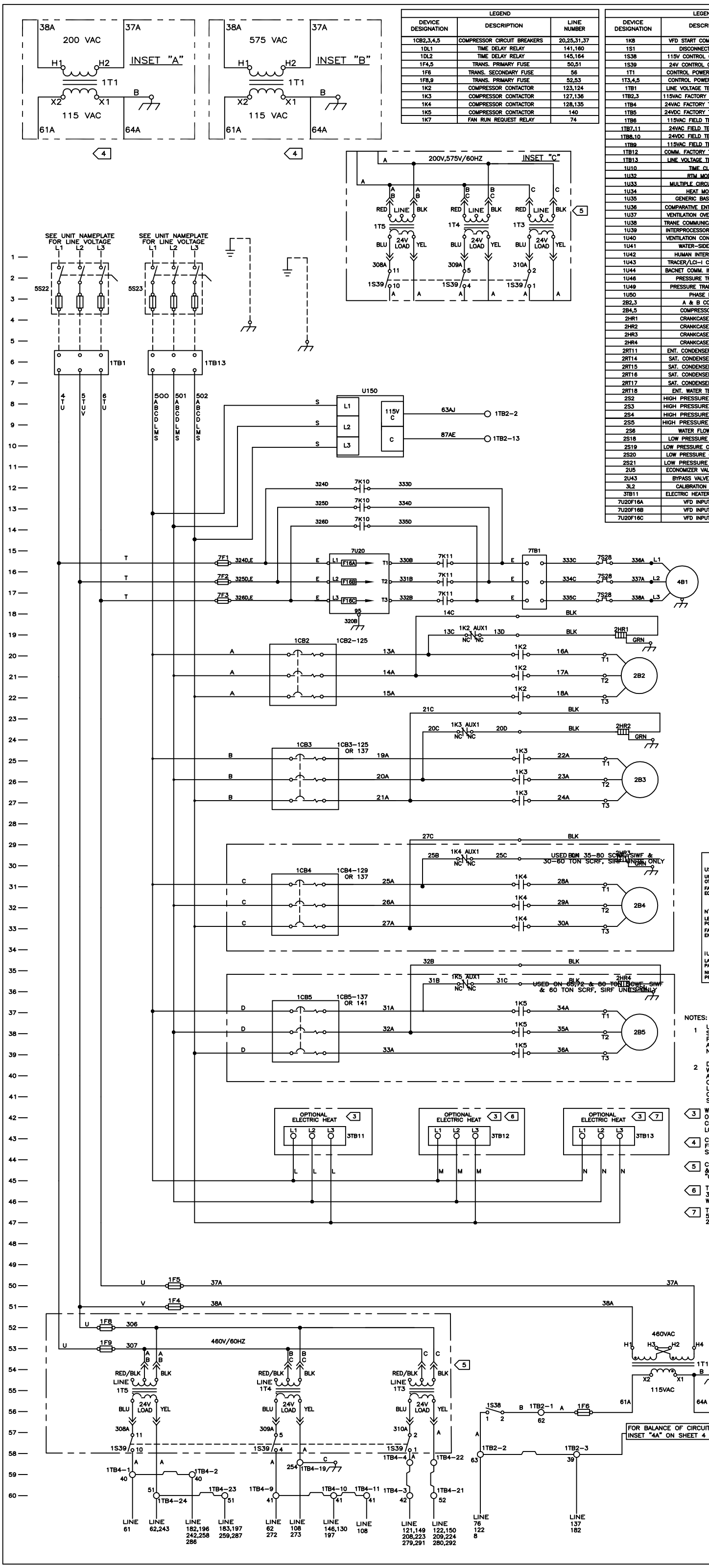

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1CB2,3,4,5	COMPRESSOR CIRCUIT BREAKERS	20,25,31,37
1DL1	TIME DELAY RELAY	141,160
1DL2	TIME DELAY RELAY	145,164
1F4,5	TRANS. PRIMARY FUSE	50,51
1F6	TRANS. SECONDARY FUSE	56
1F8,9	TRANS. PRIMARY FUSE	52,53
1K2	COMPRESSOR CONTACTOR	123,124
1K3	COMPRESSOR CONTACTOR	127,136
1K4	COMPRESSOR CONTACTOR	128,135
1K5	COMPRESSOR CONTACTOR	140
1K7	FAN RUN REQUEST RELAY	74

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1K8	VFD START COMMAND RELAY	93
1S1	DISCONNECT SWITCH	5
1S38	115V CONTROL CIRCUIT SWITCH	56
1S39	24V CONTROL CIRCUIT SWITCH	57
1T1	CONTROL POWER TRANS. (115V)	10,42
1T3,4,5	CONTROL POWER TRANS. (24V)	2,55
1TB1	LINE VOLTAGE TERMINAL BLOCK	6
1TB2,3	115VAC FACTORY TERMINAL BLOCK	
1TB4	24VAC FACTORY TERMINAL BLOCK	
1TB5	24VDC FACTORY TERMINAL BLOCK	
1TB6	115VAC FIELD TERMINAL BLOCK	
1TB7,11	24VAC FIELD TERMINAL BLOCK	
1TB8,10	24VDC FIELD TERMINAL BLOCK	
1TB9	115VAC FIELD TERMINAL BLOCK	
1TB12	COMM. FACTORY TERMINAL BLOCK	
1TB13	LINE VOLTAGE TERMINAL BLOCK	6
1U10	TIME CLOCK	111
1U32	RTM MODULE	61
1U33	MULTIPLE CIRCUIT MODULE	121
1U34	HEAT MODULE	182,196
1U35	GENERIC BAS MODULE	223
1U36	COMPARATIVE ENTHALPY MODULE	242
1U37	VENTILATION OVERRIDE MODULE	258
1U38	TRANE COMMUNICATION INTERFACE	272
1U39	INTERPROCESSOR COMM. BRIDGE	279
1U40	VENTILATION CONTROL MODULE	208
1U41	WATER-SIDE MODULE	149
1U42	HUMAN INTERFACE MODULE	286
1U43	TRACER/LCI-I COMM. INTERFACE	272
1U44	BACNET COMM. INTERFACE (BCI-I)	272
1U46	PRESSURE TRANSDUCER	93
1U49	PRESSURE TRANSDUCER (VCM)	211
1U50	PHASE MONITOR	8
2B2,3	A & B COMPRESSOR	21,26
2B4,5	COMPRESSOR C & D	32,38
2HR1	CRANKCASE HEATER	19
2HR2	CRANKCASE HEATER	24
2HR3	CRANKCASE HEATER	30
2HR4	CRANKCASE HEATER	36
2RT11	ENT. CONDENSER WATER TEMP.	151
2RT14	SAT. CONDENSER TEMP. CKT.1	127
2RT15	SAT. CONDENSER TEMP. CKT.2	139
2RT16	SAT. CONDENSER TEMP. CKT.3	153
2RT17	SAT. CONDENSER TEMP. CKT.4	164
2RT18	ENT. WATER TEMP. SENSOR	161
2S2	HIGH PRESSURE CUTOUT CKT.1	124
2S3	HIGH PRESSURE CUTOUT CKT.2	125
2S4	HIGH PRESSURE CUTOUT CKT.3	129,137
2S5	HIGH PRESSURE CUTOUT CKT.4	137,141
2S6	WATER FLOW SWITCH	158
2S18	LOW PRESSURE CUTOUT CKT.1	125
2S19	LOW PRESSURE CUTOUT CKT. 2	137
2S20	LOW PRESSURE CUTOUT CKT. 3	132
2S21	LOW PRESSURE CUTOUT CKT.4	144
2U5	ECONOMIZER VALVE ACTUATOR	151
2U43	BYPASS VALVE ACTUATOR	155
3L2	CALIBRATION SOLENOID	210
3TB11	ELECTRIC HEATER CONNECTION	43
7U20F16A	VFD INPUT FUSE	15
7U20F16B	VFD INPUT FUSE	16
7U20F16C	VFD INPUT FUSE	17

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
3TB12	ELECTRIC HEATER CONNECTION	43
3TB13	ELECTRIC HEATER CONNECTION	43
3TB14	ELECTRIC HEATER CONNECTION	185,186
4B1	SUPPLY FAN MOTOR	15
4EP1	REFRIGERANT VALVE SOLENOID	142,161
4EP2	REFRIGERANT VALVE SOLENOID	143,162
4RT1	SUPPLY AIR TEMP. SENSOR	91
4RT4	MIXED AIR TEMP. SENSOR	174
4RT7	EVAP. TEMP. SENSOR CKT.1	123
4RT8	EVAP. TEMP. SENSOR CKT.2	135
4RT9	EVAP. TEMP. SENSOR CKT.3	177
4RT10	EVAP. TEMP. SENSOR CKT.4	179
4RT11	AUX. TEMP SENSOR	213
4S8	DIRTY FILTER SWITCH	117
4S17	RETURN AIR HIGH TEMP. LIMIT	115
4S40	ENT AIR LOW TEMP. LIMIT	168
4S41	ENT. AIR LOW TEMP. LIMIT	204
4S42	SUPPLY AIRFLOW PROVING SWITCH	113
4S43	HYD. HEAT LEAVE. AIR TEMP. LIMIT	198
4S44	ENT AIR LOW TEMP. LIMIT	168
5RT5	MORNING WARM-UP SENSOR	186,201
5RT19	OUTDOOR AIR TEMP. SENSOR	100
5RT20	RETURN AIR TEMP. SENSOR	251
5U9	ASE ACTUATOR	65,67
5S16	SUPPLY AIR HIGH TEMP. LIMIT	115
5S22	FUSED DISCONNECT SWITCH (FIELD)	2
5S23	FUSED DISCONNECT SWITCH (FIELD)	2
5S45	PLENUM HIGH STATIC PRESSURE SW	115
5U22	CV REMOTE PANEL	78
5U23	ZONE TEMP. SENSOR	65
5U24	REMOTE PANEL W/ NSB	86
5U25	VAV REMOTE PANEL	76
5U26	ZONE RESET TEMP. SENSOR	97
5U27	OUTDOOR AIR HUMIDITY SENSOR	104
5U28	REMOTE HUMAN INTERFACE MODULE	291
5U29	CV ZONE PANEL	76
5U30	REMOTE ZONE TEMP. SENSOR	88
5U47	RETURN AIR HUMIDITY SENSOR	253
5U50	CO2 SENSOR	214
6U13	HYDRONIC HEAT ACTUATOR	198,204
8RT21	SAT. CONDENSER TEMP. CKT.1	127
8RT22	SAT. CONDENSER TEMP. CKT.2	139
8U44	LOW AMBIENT DAMPER ACTUATOR	133,166
8U45	LOW AMBIENT DAMPER ACTUATOR	146
7F1	BYPASS PROTECTION FUSE	14
7F2	BYPASS PROTECTION FUSE	15
7F3	BYPASS PROTECTION FUSE	16
7K10	VFD BYPASS CONTACTOR	10,11,12,78
7K11	VFD OUTPUT CONTACTOR	14,15,16,80
7S28	FAN OVERLOAD RELAY	14,15,16,78
7TB1	VFD W/BYPASS FACTORY TERM BLK	14,15,16
7U20	VARIABLE FREQUENCY DRIVE	15,87
W11	RUN PERMISSION JUMPER	72
W12	EMERGENCY STOP JUMPER	115
W13	SUPP. HIGH TEMP. LIMIT JUMPER	115
W14	EXTERNAL AUTO/STOP JUMPER	109
W30	WATER FLOW SWITCH JUMPER	160
W31	ENT. AIR LOW TEMP. JUMPER	168
W32	GBAS JUMPER	239
W39	CEM JUMPER	244

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	UNIT CONTROL PANEL
2	COMPRESSOR SECTION
3	ELECTRIC HEATER CONTROL PANEL
4	SUPPLY FAN & COIL SECTION
5	FIELD INSTALLED DEVICE
6	STEAM/HOT WATER HEAT SECTION
7	INVERTER CONTROL PANEL
8	REMOTE AIR COOLED COND SECTION (CCRC)

⚠ 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.

NOTICE

USE COPPER CONDUCTORS ONLY!

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

FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.

AVIS

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

FAIRE DÉFAUT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.

AVISO

¡UTILICE ÓNICAMENTE CONDUCTORES DE COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE PROVOCAR DAÑOS EN EL EQUIPO.

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 LINES INDICATE WIRING BY TRANE.
3. WIRING SHOWN IS FOR FACTORY INSTALLED ELECTRIC HEAT OPTION ONLY. FOR THE REMAINDER OF ELECTRIC HEATER CIRCUITS, REFER TO ELECTRICAL SCHEMATIC DIAGRAM LOCATED ON HEATER CONTROL PANEL.
4. CONNECTIONS SHOWN TO TRANSFORMER 1T1 ARE FOR 460V OPERATION. SEE INSET "A" FOR 200V. SEE INSET "B" FOR 575V.
5. CONNECTIONS SHOWN TO TRANSFORMERS 1T3, 1T4, & 1T5 ARE FOR 460V OPERATION. SEE INSET "C" FOR 200/575V.
6. TERMINAL BLOCK 3TB12 PRESENT ONLY ON SCWF, SIWF 35-80 TON AND SCRF, SIRF 30-60 TON UNITS WITH 200V ELECTRIC HEATERS.
7. TERMINAL BLOCK 3TB13 PRESENT ONLY ON SCWF, SIWF 52-80 TON AND SCRF, SIRF 50-60 TON UNITS WITH 200V ELECTRIC HEATERS.

CN: SC6392
06-APR-11
B. SPAINHOUR
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DO NOT SCALE PRINT

THIRD ANGLE PROJECTION

DRAWN BY: M. PETERS

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2307-8296

SCHEMATIC DIAGRAM
COMMERCIAL SELF CONTAINED
VFD W/BYPASS
200, 460, 575V/60HZ/3PH
SCWF, SIWF 20-80T & SCRF, SIRF 20-60T

SHEET 1 OF 5

REV S