

WARNING

 HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRIC POWER
 INCLUDING REMOTE DISCONNECTS
 BEFORE SERVICING. FOLLOW THE
 PROCEDURES BEFORE SERVICING.
 INSURE THAT ALL MOTOR
 CAPACITORS HAVE DISCHARGED
 STORED VOLTAGE. UNITS WITH
 VARIABLE SPEED DRIVE: REFER
 TO THE SERVICE INSTRUCTIONS FOR
 CAPACITOR DISCHARGE.
 FAILURE TO DO THE ABOVE
 BEFORE SERVICING COULD RESULT
 IN DEATH OR SERIOUS INJURY.

NOTICE

USE COPPER CONDUCTORS ONLY!
 UNIT TERMINALS ARE DESIGNED TO ACCEPT
 ONLY COPPER 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 CONÇUES
 QUE POUR RECEVOIR DES FICHES EN CUIVRE.
 LE NON RESPECT DE CES RÈGLES POURRAIT
 ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.

AVISO

UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
 LAS BORNAS DE LA UNIDAD SON DISEÑADAS
 PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
 NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE
 PROVOCAR DAÑOS EN EL EQUIPO.

LEGEND		LINE NUMBER
DEVICE DESIGNATION	DESCRIPTION	
1CB2,3,4,5,6	COMPRESSOR CIRCUIT BREAKERS	20,25,30,35,39
10L3	TIME DELAY RELAY	132
1F4,5	TRANS. PRIMARY FUSE	50,51
1F6	TRANS. SECONDARY FUSE	56
1F8,9	TRANS. PRIMARY FUSE	52,53
1K2	COMPRESSOR CONTACTOR	124
1K3	COMPRESSOR CONTACTOR	127,136,158
1K4	COMPRESSOR CONTACTOR	128,135
1K5	COMPRESSOR CONTACTOR	140
1K6	COMPRESSOR CONTACTOR	131
1K7	FAN RUN REQUEST RELAY	82
1K8	VFD START COMMAND RELAY	81
1K15	VFD 5 CONTROL RELAY	136
1K16	STAGE 5 LOCK-IN RELAY	133
151	DISCONNECT SWITCH	5
153,8	115V CONTROL CIRCUIT SWITCH	56
153,9	24V CONTROL CIRCUIT SWITCH	57
1T1	CONTROL POWER TRANS. (115V)	54
1T3,4,5	CONTROL POWER TRANS. (24V)	55
1T81	LINE VOLTAGE TERMINAL BLOCK	8
1T82,3	115VAC FACTORY TERMINAL BLOCK	
1T84	24VAC FACTORY TERMINAL BLOCK	
1T85	24VDC FACTORY TERMINAL BLOCK	
1T86	115VAC FIELD TERMINAL BLOCK	
1T87,11	24VAC FIELD TERMINAL BLOCK	
1T88,10	24VDC FIELD TERMINAL BLOCK	
1T89	115VAC FIELD TERMINAL BLOCK	
1T91	COMM. FACTORY TERMINAL BLOCK	
1U10	RTM MODULE	111
1U32	RTM MODULE	61

DEVICE DESIGNATION	LEGEND	LINE NUMBER
16B2.3A.3-6	COMPRESSOR CIRCUIT BREAKERS	20,25,30,35,39
10L3	TIME DELAY RELAY	132
1F4.5	TRANS. PRIMARY FUSE	50,51
1F6	TRANS. SECONDARY FUSE	56
1F8.9	TRANS. PRIMARY FUSE	52,53
1K2	COMPRESSOR CONTACTOR	124
1K3	COMPRESSOR CONTACTOR	127,136,158
1K4	COMPRESSOR CONTACTOR	128,135
1K5	COMPRESSOR CONTACTOR	140
1K6	COMPRESSOR CONTACTOR	131
1K7	FAN RUN REQUEST RELAY	82
1K8	VFD START COMMAND RELAY	81
1K15	STAGE 5 CONTROL RELAY	136
1K16	STAGE 5 LOCK-IN RELAY	133
1S1	DISCONNECT SWITCH	5
1S38	115V CONTROL CIRCUIT SWITCH	56
1S39	24V CONTROL CIRCUIT SWITCH	57
1T1	CONTROL POWER TRANS. (115V)	54
1T3.4.5	CONTROL POWER TRANS. (24V)	55
1T8.1	LINE VOLTAGE TERMINAL BLOCK	8
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	
1T10	TIME CLOCK	111
1U32	RTM MODULE	61
1U33	MULTIPLE CIRCUIT MODULE	121
1U34	HEAT MODULE	182,196
1U35	GENERIC GAS 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	LOWALT COMM. INTERFACE	274
1U46	PRESSURE TRANSDUCER	93
1U49	PRESSURE TRANSDUCER (VOM)	211
2B2.3	A & B COMPRESSOR	22,28
2B4.5	COMPRESSOR C & D	35,40
2B6	COMPRESSOR E	48
2B2510	COMPRESSOR A WINDING TSTAT	125
2B3511	COMPRESSOR B WINDING TSTAT	137
2B4512	COMPRESSOR C WINDING TSTAT	129,137
2B5513	COMPRESSOR D WINDING TSTAT	137,141
2B6514	COMPRESSOR E WINDING TSTAT	137,141
2B11	ENT. CONDENSER WATER TEMP.	151
2B14	SAT. CONDENSER TEMP. CKT.1	127
2B15	SAT. CONDENSER TEMP. CKT.2	138
2B16	SAT. CONDENSER TEMP. CKT.3	153
2B17	SAT. CONDENSER TEMP. CKT.4	164
2B18	ENT. WATER TEMP. SENSOR	161
252	HIGH PRESSURE CUTOOUT CKT.1	125
253	HIGH PRESSURE CUTOOUT CKT.2	125,137,156
254	HIGH PRESSURE CUTOOUT CKT.3	139,137
255	HIGH PRESSURE CUTOOUT CKT.4	137,141
256	WATER FLOW SWITCH	158
2518	LOW PRESSURE CUTOOUT CKT.1	125
2519	LOW PRESSURE CUTOOUT CKT.2	137
2520	LOW PRESSURE CUTOOUT CKT.3	132
2521	LOW PRESSURE CUTOOUT CKT.4	144
2540	ENT. AIR LOW TEMP. LIMIT	168
205	ECONOMIZER VALVE ACTUATOR	151
2U43	BYPASS VALVE ACTUATOR	155
3L2	CALIBRATION SOLENOID	210
3TB11	ELECTRIC HEATER CONNECTION	44
3TB14	ELECTRIC HEATER CONNECTION	185,186
4B1	SUPPLY FAN MOTOR	15
4B14	SUPPLY AIR TEMP. SENSOR	91
4B17	MIXED AIR TEMP. SENSOR	174
4B77	EMP. TEMP. SENSOR CKT.1	123
4B78	EMP. TEMP. SENSOR CKT.2	135
4B79	EMP. TEMP. SENSOR CKT.3	177
4B710	EMP. TEMP. SENSOR CKT.4	179
4B711	AUX. TEMP. SENSOR	213
45B	DIRTY FILTER SWITCH	110
4517	RETURN AIR HIGH TEMP. LIMIT	106
4541	EXT. AIR LOW TEMP. LIMIT	204
4542	SUPPLY AIR LOW PROVING SWITCH	113
4543	HID. HEAT LEAVE AIR TEMP. LIMIT	198
4543	OUTDOOR AIR TEMP. SENSOR	100
45719	RETURN AIR TEMP. SENSOR	251
45720	MORNING WARM-UP SENSOR	186,201
5B75	SUPPLY AIR HIGH TEMP. LIMIT	71
5516	ASE ACTUATOR	106

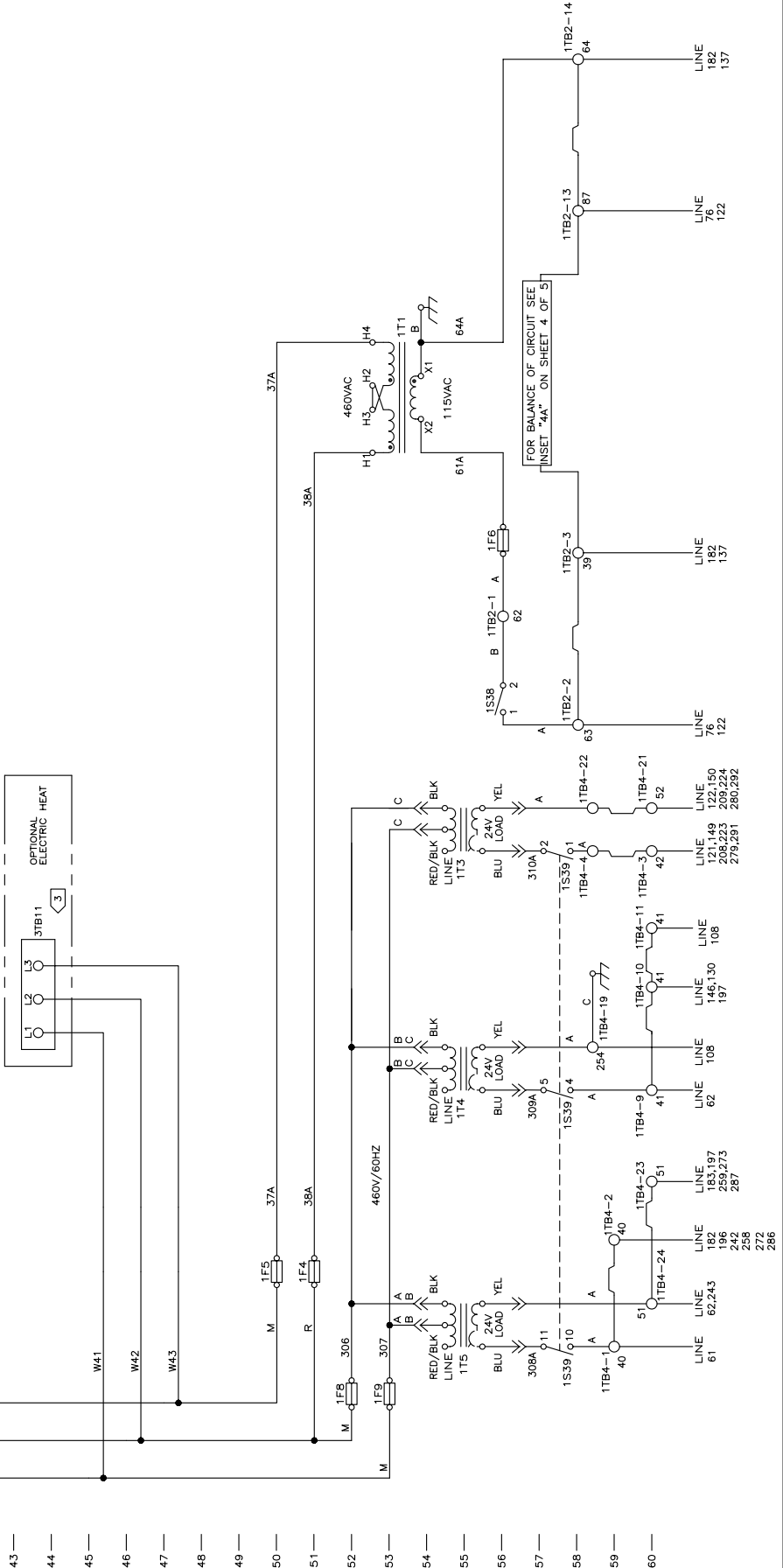
AREA	LOCATION	DEVICE PREFIX	LOCATION CODE
1	UNIT CONTROL PANEL		
2	COMPRESSOR SECTION		
3	ELECTRIC HEATER CONTROL PANEL		
4	SUPPLY FAN & COIL SECTION		
5	FIELD INSTALLED DEVICE		
6	STEAM/HOT WATER HEAT SECTION		
7	INVERTER CONTROL PANEL		

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 FOR THE REMAINDER OF THE ELECTRIC HEATER CIRCUITS, SEE ELECTRICAL SCHEMATIC DIAGRAM LOCATED ON ELECTRIC HEATER CONTROL PANEL.



CN SC5677	26-FEB-09	K. DANIELS	TRAN THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRAN DRAWN BY: M. PETERS ©TRAN DATE: 28-JULY-99		2307-8298 SHEET 1 OF 5 REV K
			DO NOT SCALE PRINT THIRD ANGLE PROJECTION 	SCHEMATIC DIAGRAM CEMMERICAL SELF CONTAINED W/VFD W/SINGLE POINT POWER 460V/60HZ/3PH S*WF 85 TON	