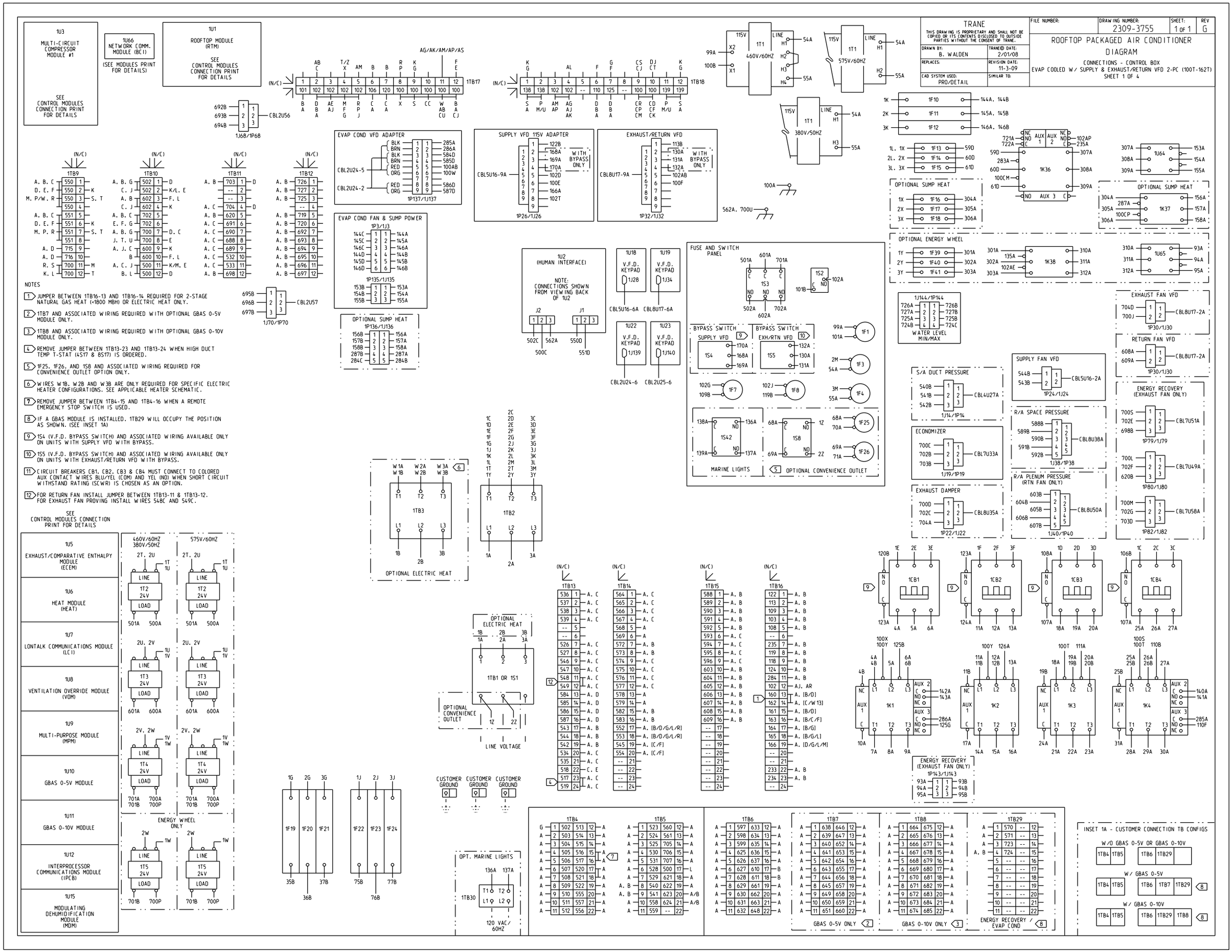
TRANE
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DRAWN BY: B. WALDEN
TRANE® DATE: 2/01/08
REPLACES:
REVISION DATE: 11-3-09
CAD SYSTEM USED: PRO/DETAIL
SIMILAR TO:
FILE NUMBER:
DRAWING NUMBER: 2309-3755
SHEET: 1 OF 1
REV G
ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM
CONNECTIONS - CONTROL BOX
EVAP COOLED W/ SUPPLY & EXHAUST/RETURN VFD 2-PC (100T-162T)
SHEET 1 OF 4
1U3 MULTI-CIRCUIT COMPRESSOR MODULE #1
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U66 NETWORK COMM. MODULE (BCI)
(SEE MODULES PRINT FOR DETAILS)
1U1 ROOFTOP MODULE (RTM)
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
EVAP COND VFD ADAPTER
SUPPLY VFD 115V ADAPTER
EXHAUST/RETURN VFD
WITH BYPASS ONLY
OPTIONAL SUMP HEAT
OPTIONAL ENERGY WHEEL
EVAP COND FAN & SUMP POWER
1U2 (HUMAN INTERFACE)
NOTE: CONNECTIONS SHOWN FROM VIEWING BACK OF 1U2
FUSE AND SWITCH PANEL
BYPASS SWITCH
SUPPLY VFD
EXH/RTN VFD
MARINE LIGHTS
OPTIONAL CONVENIENCE OUTLET
WATER LEVEL MIN/MAX
S/A DUCT PRESSURE
SUPPLY FAN VFD
ECONOMIZER
R/A SPACE PRESSURE
EXHAUST DAMPER
R/A PLENUM PRESSURE (RTN FAN ONLY)
EXHAUST FAN VFD
RETURN FAN VFD
ENERGY RECOVERY (EXHAUST FAN ONLY)
OPTIONAL ELECTRIC HEAT
OPTIONAL CONVENIENCE OUTLET
LINE VOLTAGE
CUSTOMER GROUND
OPT. MARINE LIGHTS
120 VAC/ 60HZ
NOTES
1 JUMPER BETWEEN 1TB16-13 AND 1TB16-14 REQUIRED FOR 2-STAGE NATURAL GAS HEAT (<1800 MBH) OR ELECTRIC HEAT ONLY.
2 1TB7 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS 0-5V MODULE ONLY.
3 1TB8 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS 0-10V MODULE ONLY.
4 REMOVE JUMPER BETWEEN 1TB13-23 AND 1TB13-24 WHEN HIGH DUCT TEMP T-STAT (4S17 & 8S17) IS ORDERED.
5 1F25, 1F26, AND 1S8 AND ASSOCIATED WIRING REQUIRED FOR CONVENIENCE OUTLET OPTION ONLY.
6 WIRES W1B, W2B AND W3B ARE ONLY REQUIRED FOR SPECIFIC ELECTRIC HEATER CONFIGURATIONS. SEE APPLICABLE HEATER SCHEMATIC.
7 REMOVE JUMPER BETWEEN 1TB4-15 AND 1TB4-16 WHEN A REMOTE EMERGENCY STOP SWITCH IS USED.
8 IF A GBAS MODULE IS INSTALLED, 1TB29 WILL OCCUPY THE POSITION AS SHOWN. (SEE INSET 1A)
9 1S4 (V.F.D. BYPASS SWITCH) AND ASSOCIATED WIRING AVAILABLE ONLY ON UNITS WITH SUPPLY VFD WITH BYPASS.
10 1S5 (V.F.D. BYPASS SWITCH) AND ASSOCIATED WIRING AVAILABLE ONLY ON UNITS WITH EXHAUST/RETURN VFD WITH BYPASS.
11 CIRCUIT BREAKERS CB1, CB2, CB3 & CB4 MUST CONNECT TO COLORED AUX CONTACT WIRES BLU/YEL (COM) AND YEL (NO) WHEN SHORT CIRCUIT WITHSTAND RATING (SCWR) IS CHOSEN AS AN OPTION.
12 FOR RETURN FAN INSTALL JUMPER BETWEEN 1TB13-11 & 1TB13-12. FOR EXHAUST FAN PROVING INSTALL WIRES 548C AND 549C.
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U5 EXHAUST/COMPARATIVE ENTHALPY MODULE (ECEM)
1U6 HEAT MODULE (HEAT)
1U7 LONTALK COMMUNICATIONS MODULE (LCI)
1U8 VENTILATION OVERRIDE MODULE (VOM)
1U9 MULTI-PURPOSE MODULE (MPM)
1U10 GBAS 0-5V MODULE
1U11 GBAS 0-10V MODULE
1U12 INTERPROCESSOR COMMUNICATIONS MODULE (IPCB)
1U15 MODULATING DEHUMIDIFICATION MODULE (MDM)
460V/60HZ 380V/50HZ
575V/60HZ
ENERGY WHEEL ONLY
OPTIONAL ELECTRIC HEAT
1TB3
1TB2
1TB1 OR 1S1
1TB13
1TB14
1TB15
1TB16
1TB4
1TB5
1TB6
1TB7
1TB8
1TB29
GBAS 0-5V ONLY
GBAS 0-10V ONLY
ENERGY RECOVERY / EVAP COND
INSET 1A - CUSTOMER CONNECTION TB CONFIGS
W/O GBAS 0-5V OR GBAS 0-10V
W/ GBAS 0-5V
W/ GBAS 0-10V