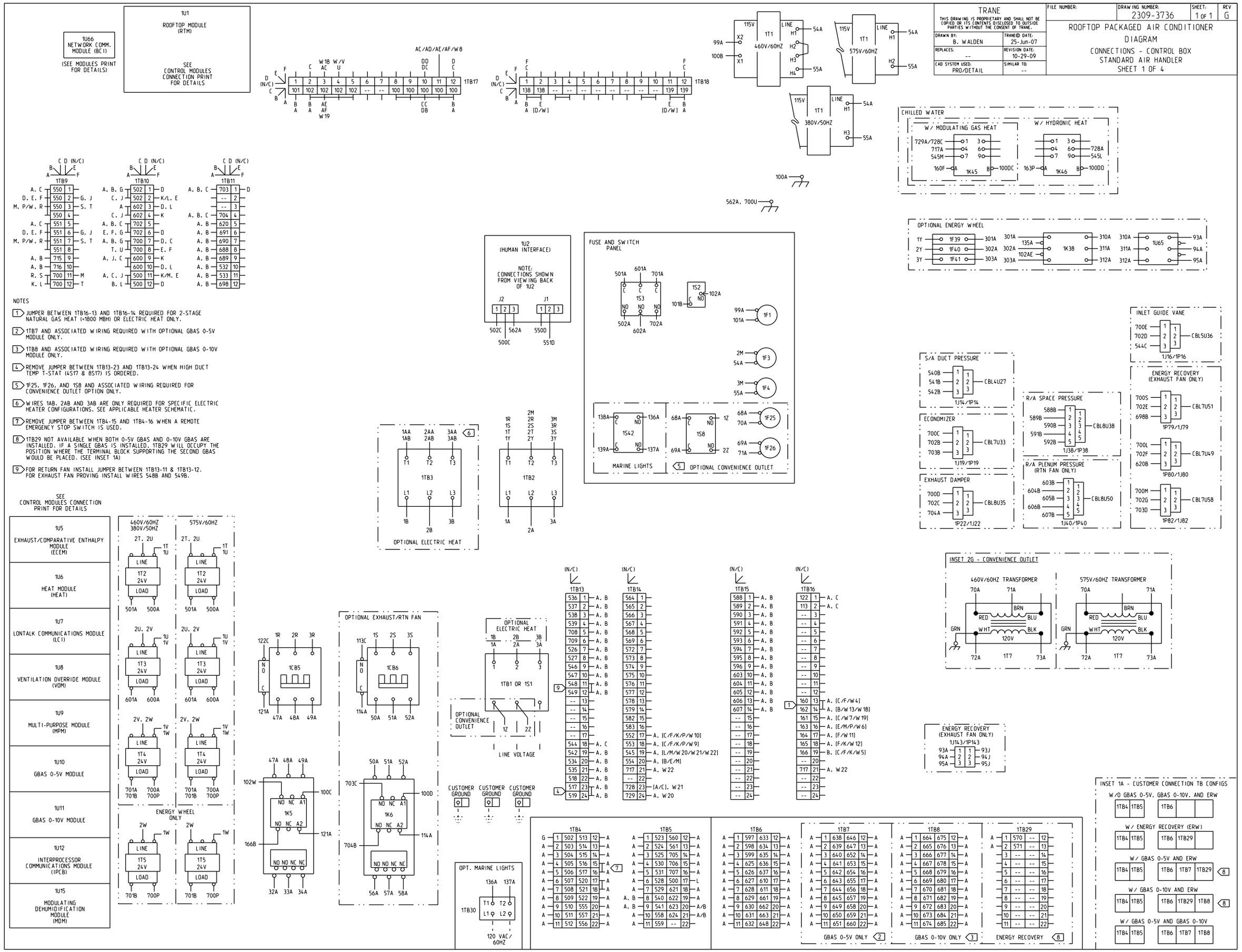
TRANE
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DRAWN BY: B. WALDEN
TRANE® DATE: 25-Jun-07
REPLACES: --
REVISION DATE: 10-29-09
CAD SYSTEM USED: PRO/DETAIL
SIMILAR TO: --
FILE NUMBER:
DRAWING NUMBER: 2309-3736
SHEET: 1 OF 1
REV G
ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM
CONNECTIONS - CONTROL BOX
STANDARD AIR HANDLER
SHEET 1 OF 4
1U1 ROOFTOP MODULE (RTM)
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U66 NETWORK COMM. MODULE (BCI)
(SEE MODULES PRINT FOR DETAILS)
1TB17
1TB18
1T1 460V/60HZ
1T1 575V/60HZ
1T1 380V/50HZ
CHILLED WATER
W/ MODULATING GAS HEAT
W/ HYDRONIC HEAT
1K45
1K46
OPTIONAL ENERGY WHEEL
1K38
1U65
1TB9
1TB10
1TB11
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 1AB, 2AB AND 3AB 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 1TB29 NOT AVAILABLE WHEN BOTH 0-5V GBAS AND 0-10V GBAS ARE INSTALLED. IF A SINGLE GBAS IS INSTALLED, 1TB29 WILL OCCUPY THE POSITION WHERE THE TERMINAL BLOCK SUPPORTING THE SECOND GBAS WOULD BE PLACED. (SEE INSET 1A)
9 FOR RETURN FAN INSTALL JUMPER BETWEEN 1TB13-11 & 1TB13-12. FOR EXHAUST FAN PROVING INSTALL WIRES 548B AND 549B.
1U2 (HUMAN INTERFACE)
NOTE: CONNECTIONS SHOWN FROM VIEWING BACK OF 1U2
FUSE AND SWITCH PANEL
MARINE LIGHTS
OPTIONAL CONVENIENCE OUTLET
OPTIONAL ELECTRIC HEAT
S/A DUCT PRESSURE
ECONOMIZER
EXHAUST DAMPER
R/A SPACE PRESSURE
R/A PLENUM PRESSURE (RTN FAN ONLY)
INLET GUIDE VANE
ENERGY RECOVERY (EXHAUST FAN ONLY)
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 EXHAUST/RTN FAN
1CB5
1CB6
1K5
1K6
OPTIONAL ELECTRIC HEAT
OPTIONAL CONVENIENCE OUTLET
LINE VOLTAGE
CUSTOMER GROUND
OPT. MARINE LIGHTS
120 VAC/ 60HZ
1TB13
1TB14
1TB15
1TB16
INSET 2G - CONVENIENCE OUTLET
460V/60HZ TRANSFORMER
575V/60HZ TRANSFORMER
ENERGY RECOVERY (EXHAUST FAN ONLY) 1J143/1P143
1TB4
1TB5
1TB6
1TB7
1TB8
1TB29
GBAS 0-5V ONLY
GBAS 0-10V ONLY
ENERGY RECOVERY
INSET 1A - CUSTOMER CONNECTION TB CONFIGS
W/O GBAS 0-5V, GBAS 0-10V, AND ERW
W/ ENERGY RECOVERY (ERW)
W/ GBAS 0-5V AND ERW
W/ GBAS 0-10V AND ERW
W/ GBAS 0-5V AND GBAS 0-10V