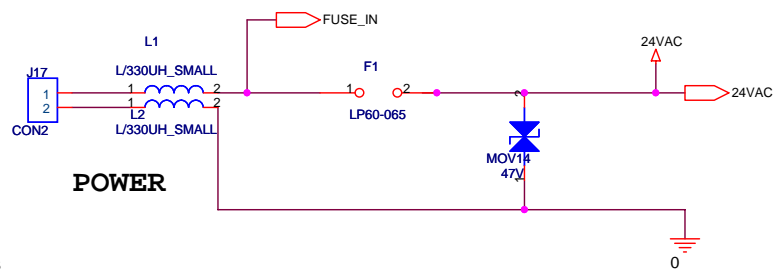
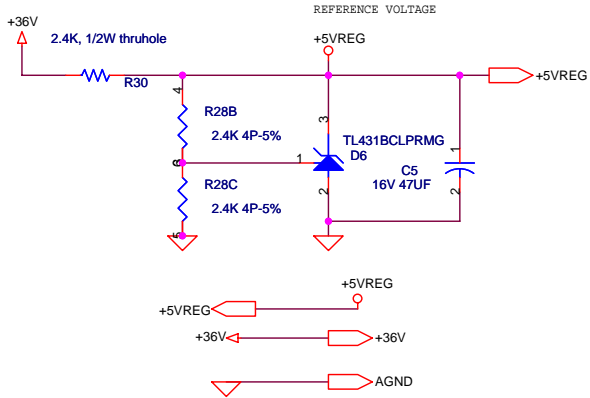
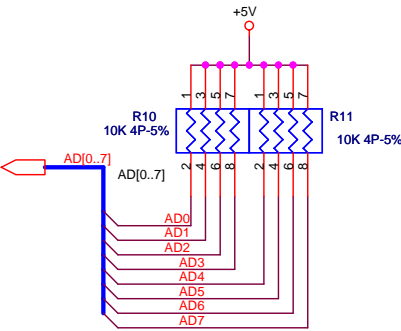
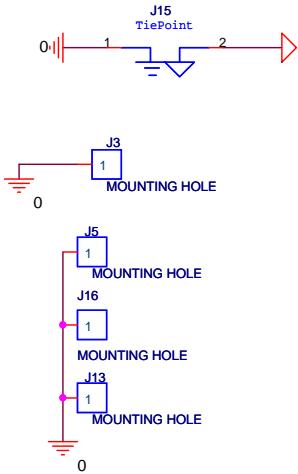
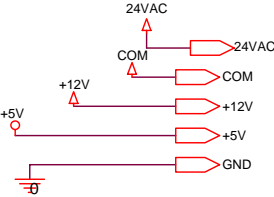


POWER



Mounting Holes



Title		
T3-8I-13R		
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	POWER	08
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TBD: on analog board, all the above chanegs

TBD: isolated network gnd

TBD: change riser card header from 0.1inch to 0.2 inch

TBD: on upper board, no vias allowed under switches, add 4 holes to switch footprint

TBD: try to pass 110VAC on any pin

InOut Relay Rev4

Done: use DS2003 chip to drive relays

Done: change LM4040 to 7405

Done: move board to board header away from relays, to make room for shrouded header

Done: replaced output filter caps with TVSs

SINKING REV0

Done: Use new crystal footprint

Done: added voltage regulator to the system and added capacitor for stability

TBD: make sure all outputs are off during RS485 flash update, no relays jumping allowed

TBD: add resistor on RS485 GND line

TBD: make hardware rev visible on board while inside the enclosure

T3-8IN-16OUT REV0 (05/02/11)

Done: fix RX and TXEN lines. They were swapped.

Done: spread MOVs out a bit so they are not so crammed

Done: spread switches out just a bit so they are not so crammed

Done: verify connections to the out connector. 12 V was not done properly

Done: connect zero crossing and low voltage.

T3-8IN-16OUT REV1 (05/03/14)

Done: corrected the ground connection on the lower INPUT line

Done: correct footprint of 2803 and 273 chips

Done: update thermal relief

Done: make space for 20 pin header

T3-8IN-16OUT REV2 (05/06/02)

Done: change the VCC supply to the pic chip to 5Vreg

Done: made more space between Goal and PIC for sockets

Done: move the 12V output jumper (J2) cuz too close to output header

T3-8IN-16OUT REV3

Done: move the i2c data line, conflict with ISP

Done: shift LED board to the left

Done: high speed counter signal added to pic and CPU.

note that firmware will not be same anymore given

some pin connections had to be swapped

Done: add p-channel mosfet to driver chip

Done: out connector with REX header to be more centered

Done: in connector top header not aligned

Done: added a 12V_enable for the 2003 enable chips

note forgot to change label on silk screen... still

writes rev02

T3-8IN-16OUT REV4

Done: remove pull-up and pull-down resistor on RS485 line

Done: fix BAS40 on RS485 line

Done: add PIC for high speed analog inputs

Done: no need for 12V supply, deleted

Done: added 16 relays, 5V

Done: add the Clear line on the Latches to reduce relay startup problems.

Done: add an RC on latches to reduce relay flicker on startup

Need to experiment with values

T3-8IN-13RELAY_REV0

TBD: add terminal for 12V aux output

Done: change to larger PIC for high speed inputs

Done: delete hand_off_auto_2 pins

Done: get rid of one latch, use CPU

Done: similar hardware connections as 8out type

Done: put header to the side of the board

Done: clean up board output

T3-8IN-13RELAY_REV01

DONE:Change the part NO of the mov1..mov13

DONE: fix the part no of the mcu chip

DONE: add the pic chip programming jumper

T3-8IN-13RELAY_REV05

TBD: put notes from the last revisions

TBD: add 0-10V jumper positions if there is room

TBD: change the TVS to be MOV components for the relay side

TBD: change the rs485 chip to opto module

TBD: change the rs485 chip to 34063 fixed connector

TBD: Change I2CLOCK to pin RC5 of PIC, conflict with ICD2

TBD: Add ISP jumper, put this jumper nearby terminal, the user does not open the encloure to put/take this jumper.

T3-8IN-13RELAY_REV5

TBD: use rs485 module replace 485 circuit

TBD: change the input circuit make it support 40v

TBD: change to relay 2apm N4100

T3-8IN-13RELAY_REV06

DONE: change the pic to 16f882 and add vref chip.

DONE: change RS485 circuit

DONE: move the terminal a little far away. About 2.5mm

DONE: change the 12v chip LM2576 to 34063.

DONE: add the jumper for 10v voltage input .

DONE: change the pic to 16f882 and add vref chip.

T3-8IN-13RELAY_REV07

DONE: CHANGE THE PIC CHIP TO 16F882

DONE: ADD THE INPUT TYPE . 0-5V. 0-10V. 4-20MA

DONE : The sm5964 schematic footprint is copy from the rev 5 , but it is not correct . Correct it

T3-8IN-13RELAY_REV08

DONE: change the 5VRef to match mini panel

DONE: change the input resistors from 1k to 10k, MATCH TSTAT6

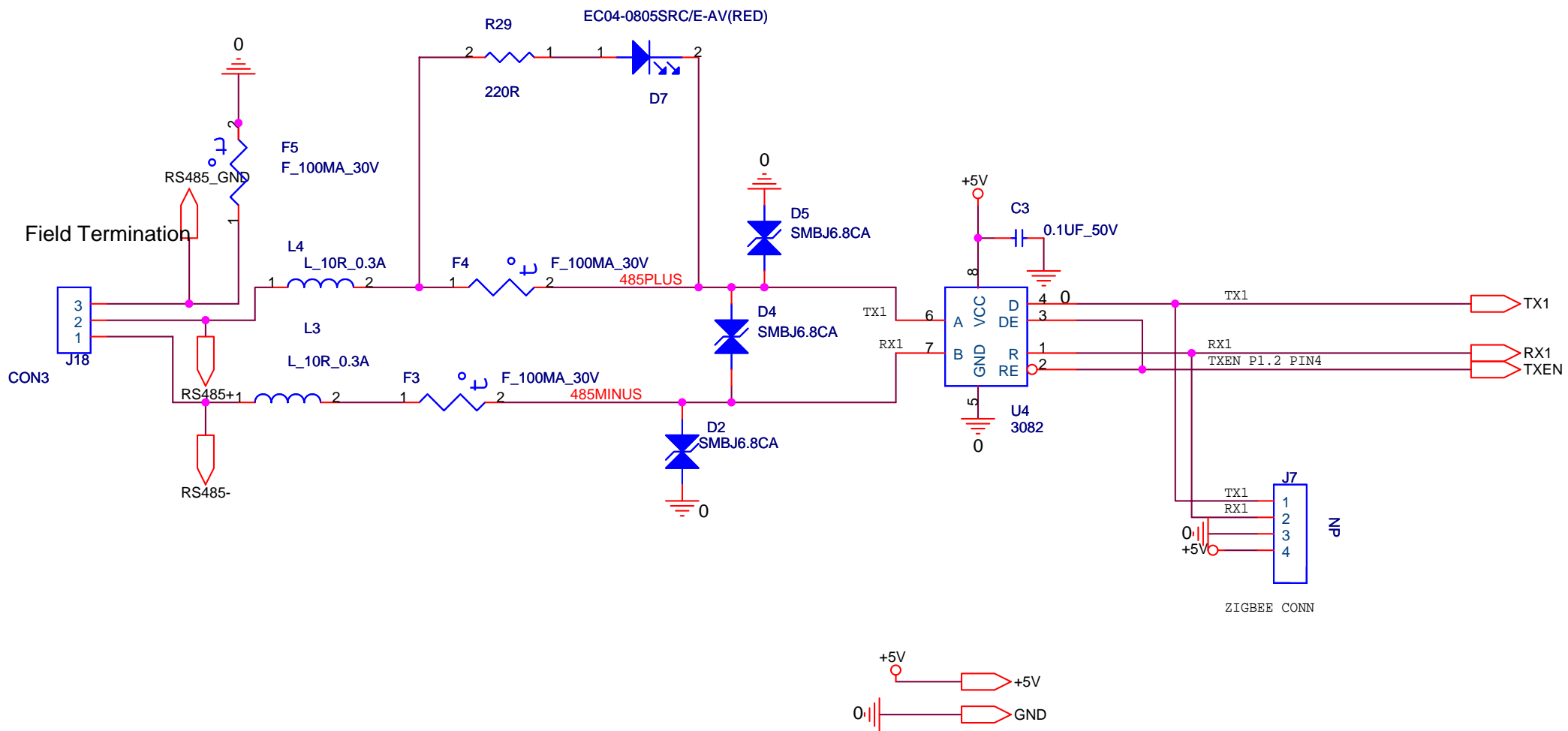
DONE: CHECK ALL SCREW TERMINALS WITH 24VAC ON REV7 BEFORE MAKING REV8

DONE: change this to fuse symbol, not R, update born, SAME PART# AS TSTAT6

DONE: need to add zigbee header

DONE: J6 PIN24 ADD +36V FOR +5VREG INPUT .

DONE: Add RS485 LED .



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TBD: change the input resistors from 1k to 10k

