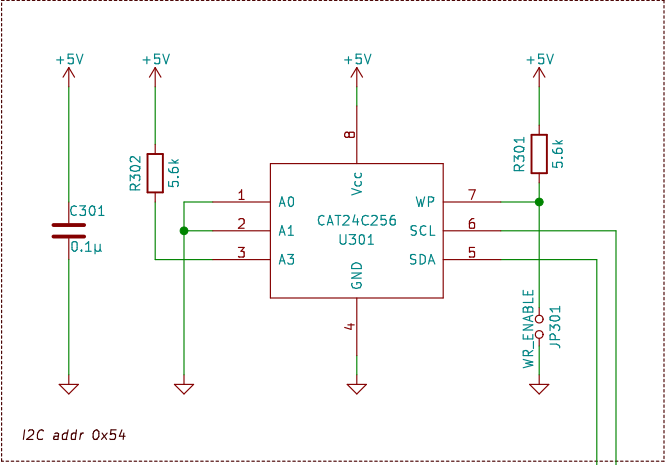
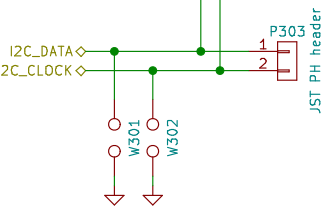


BeagleBone Expansion Headers



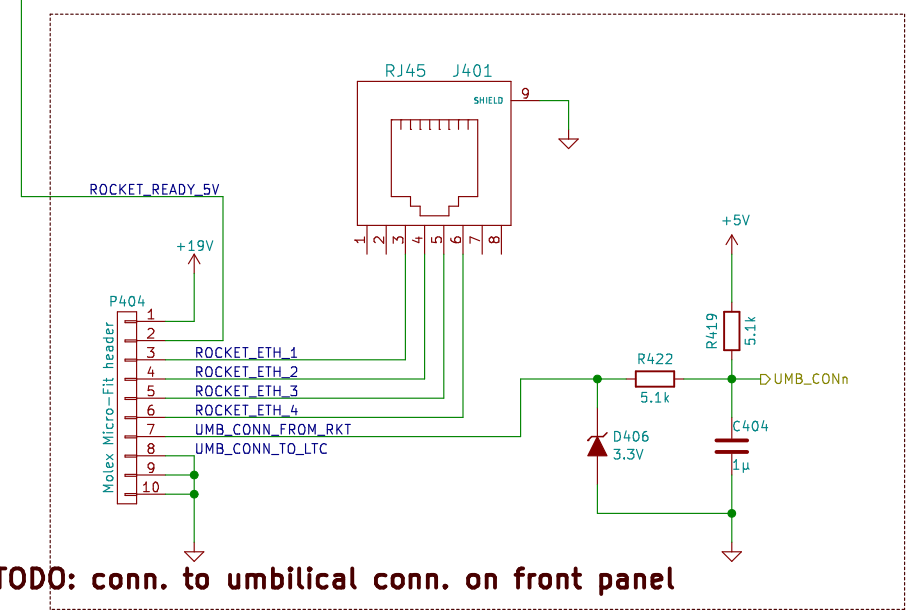
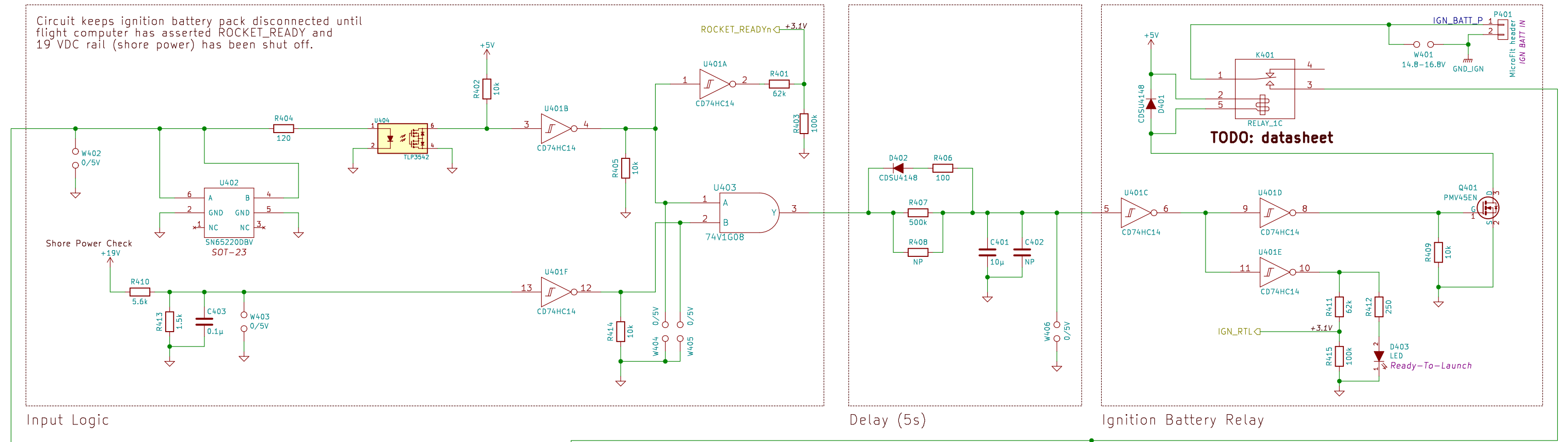
Cape EEPROM



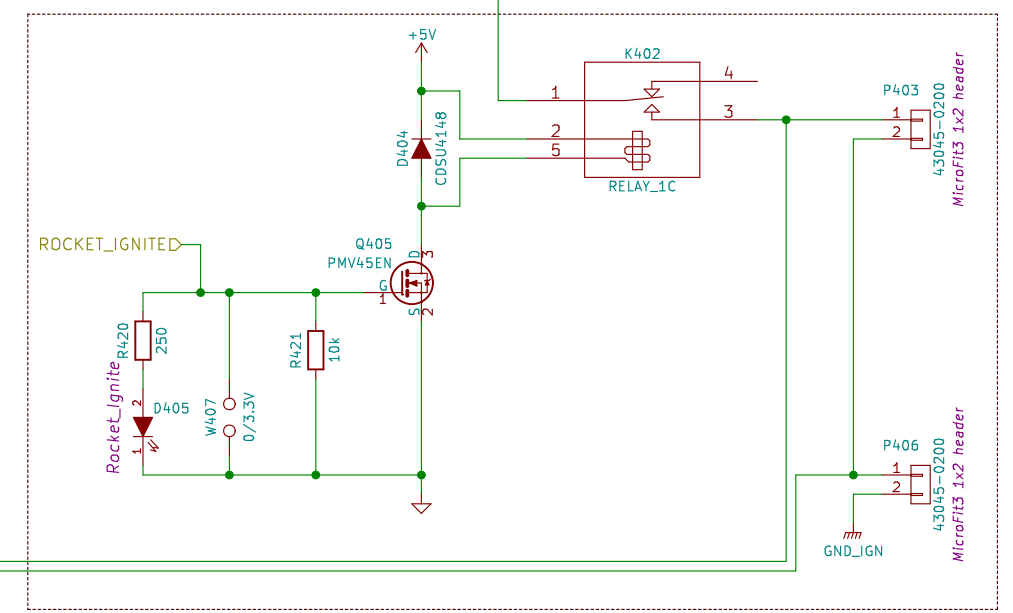
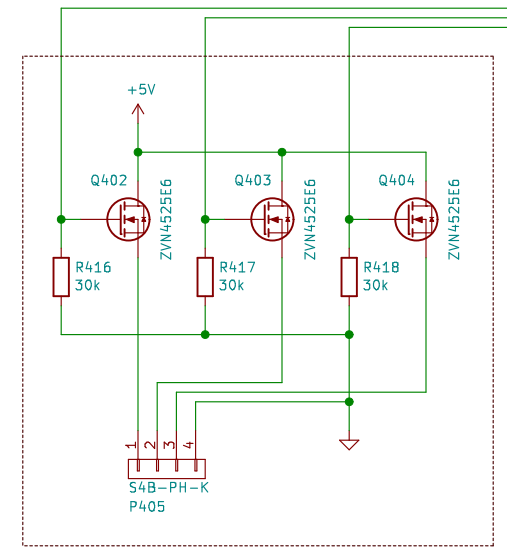
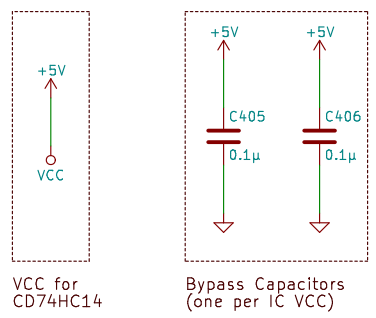
I2C Devices			
ADDR	Part	Type	Location
0x10	U203	BQ77PL900	B/PM
0x54	U501	EEPROM	BBB
0x90	U402	LTC2991	DC-DC
0x98	U203	LTC2990	Power In
0x9A	U301	LTC2990	B/PM

NOTES:
* Do NOT change ROCKET_IGNITE, pin default reset state is High-Z w/ pulldown resistor. Other pins can be configured in EEPROM at boot time.
* All I2C devices on LTC3 are slaves. The BBB is the only master so the LTC will not need arbitration.

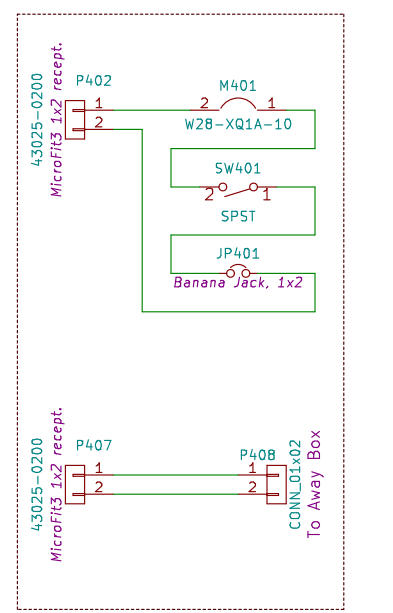
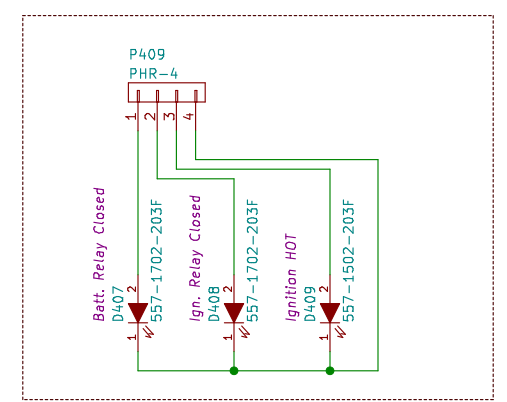
Circuit keeps ignition battery pack disconnected until flight computer has asserted ROCKET_READY and 19 VDC rail (shore power) has been shut off.



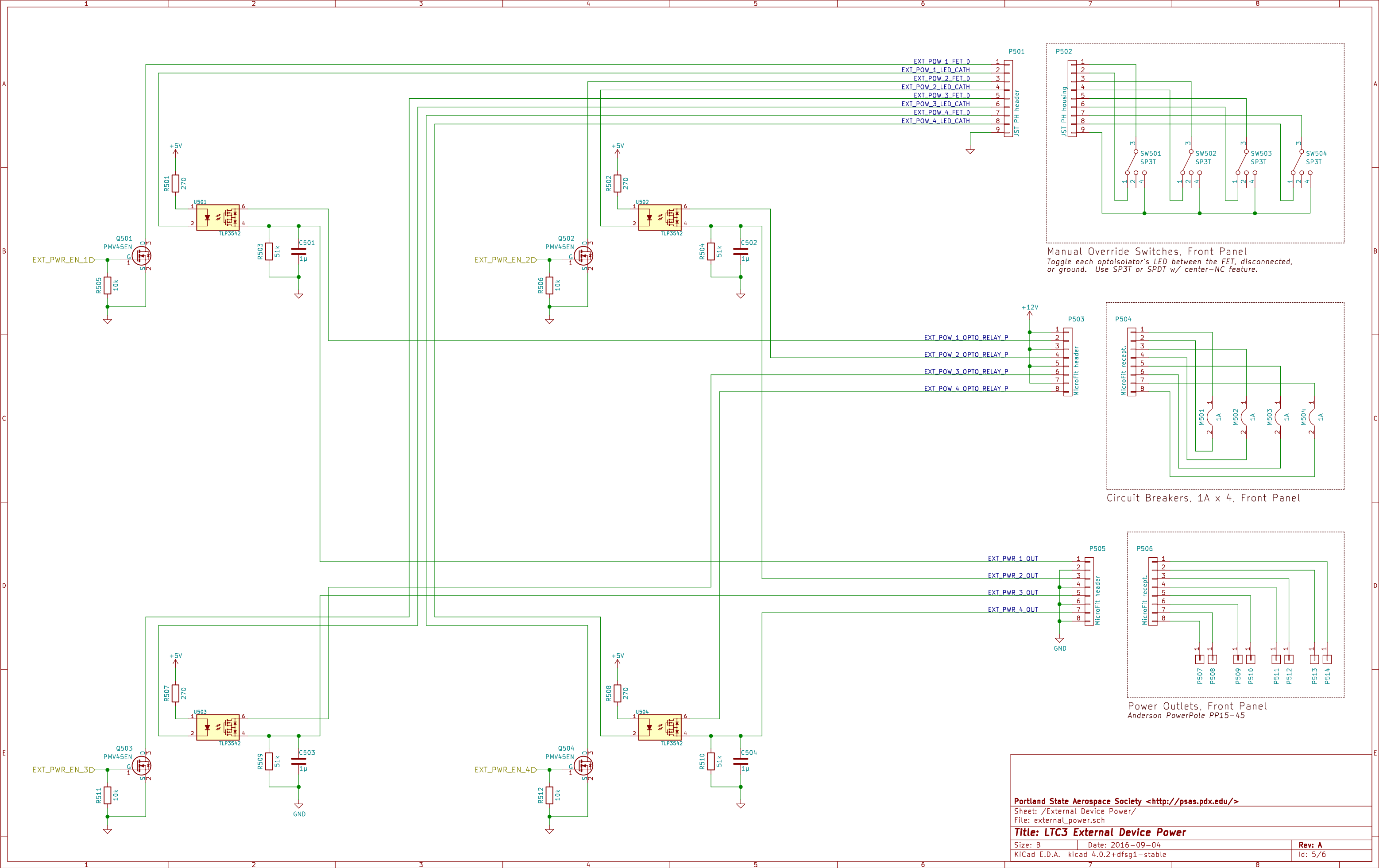
Rocket Umbilical
Rocket-to-BeagleBone Ethernet



Rocket Ignition Relay



TODO: find out if Dialight 557 LED indicators require current-limiting resistor



Portland State Aerospace Society <<http://psas.pdx.edu/>>

Sheet: /External Device Power/

File: external_power.sch

Title: LTC3 External Device Power

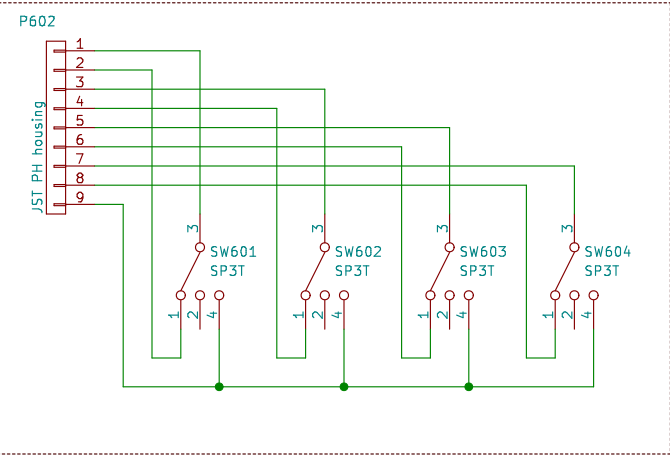
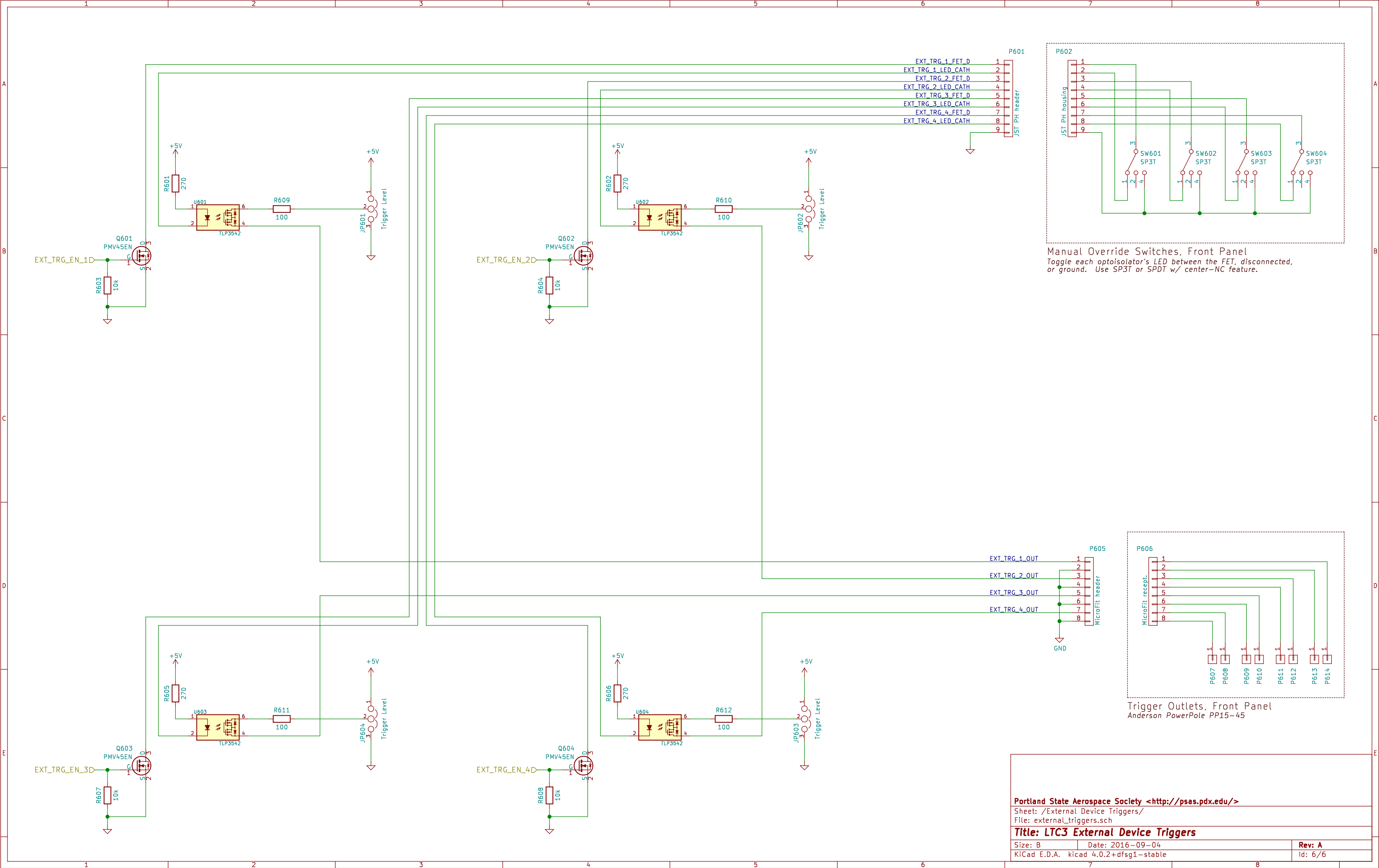
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Date: 2016-09-04

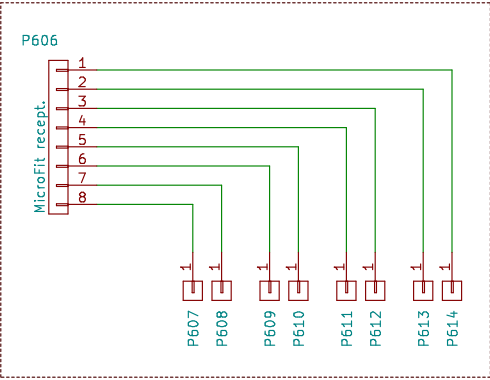
Rev: A

KiCad E.D.A. kicad 4.0.2+dfsg1-stable

Id: 5/6



Manual Override Switches, Front Panel
Toggle each optoisolator's LED between the FET, disconnected, or ground. Use SP3T or SPDT w/ center-NC feature.



Trigger Outlets, Front Panel
Anderson PowerPole PP15-45