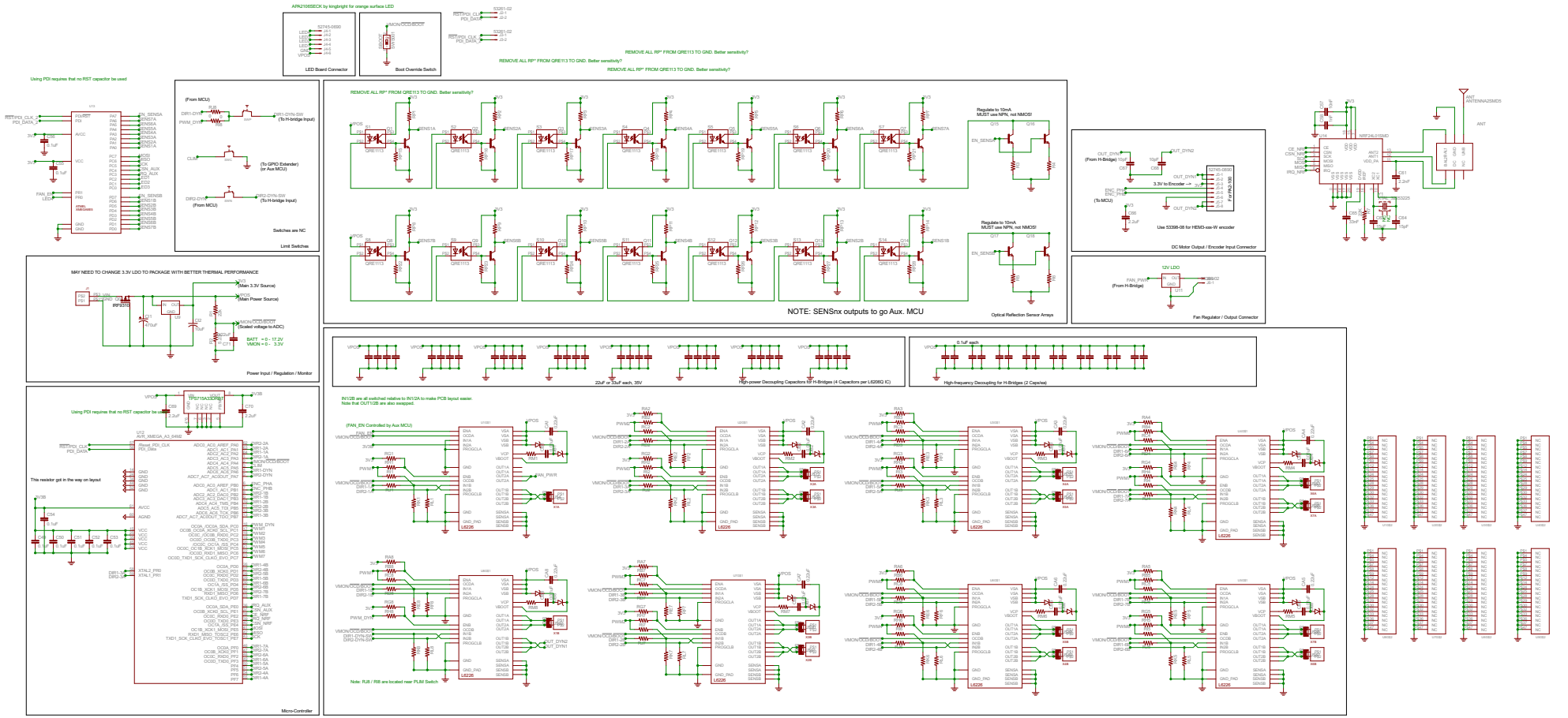
Using PDI requires that no RST capacitor be used
Limit Switches
Switches are NC
Power Input / Regulation / Monitor
MAY NEED TO CHANGE 3.3V LDO TO PACKAGE WITH BETTER THERMAL PERFORMANCE
Micro-Controller
This resistor got in the way on layout
REMOVE ALL RP* FROM QRE113 TO GND. Better sensitivity?
NOTE: SENSnx outputs to go Aux. MCU
Optical Reflection Sensor Arrays
Regulate to 10mA
MUST use NPN, not NMOS!
DC Motor Output / Encoder Input Connector
Use 53398-08 for HEM3-xxx-W encoder
Fan Regulator / Output Connector
12V LDO
22uF or 33uF each, 35V
High-power Decoupling Capacitors for H-Bridges (4 Capacitors per L6206Q IC)
0.1uF each
High-frequency Decoupling for H-Bridges (2 Caps/ea)
IN1/2B are all switched relative to IN1/2A to make PCB layout easier.
Note that OUT1/2B are also swapped.
(FAN_EN Controlled by Aux MCU)
Note: RJ8 / RI8 are located near PLIM Switch
Boot Override Switch
LED Board Connector