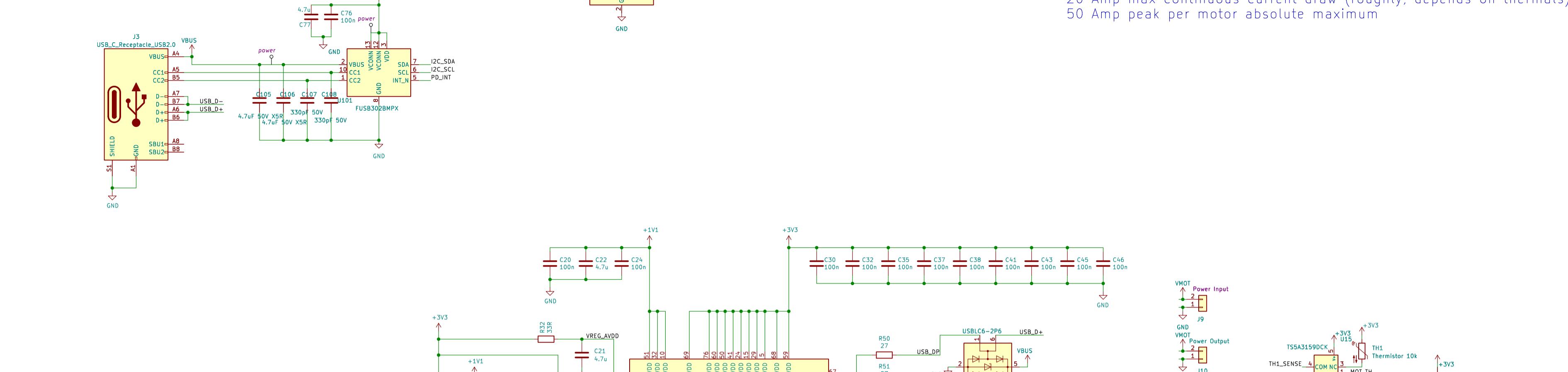
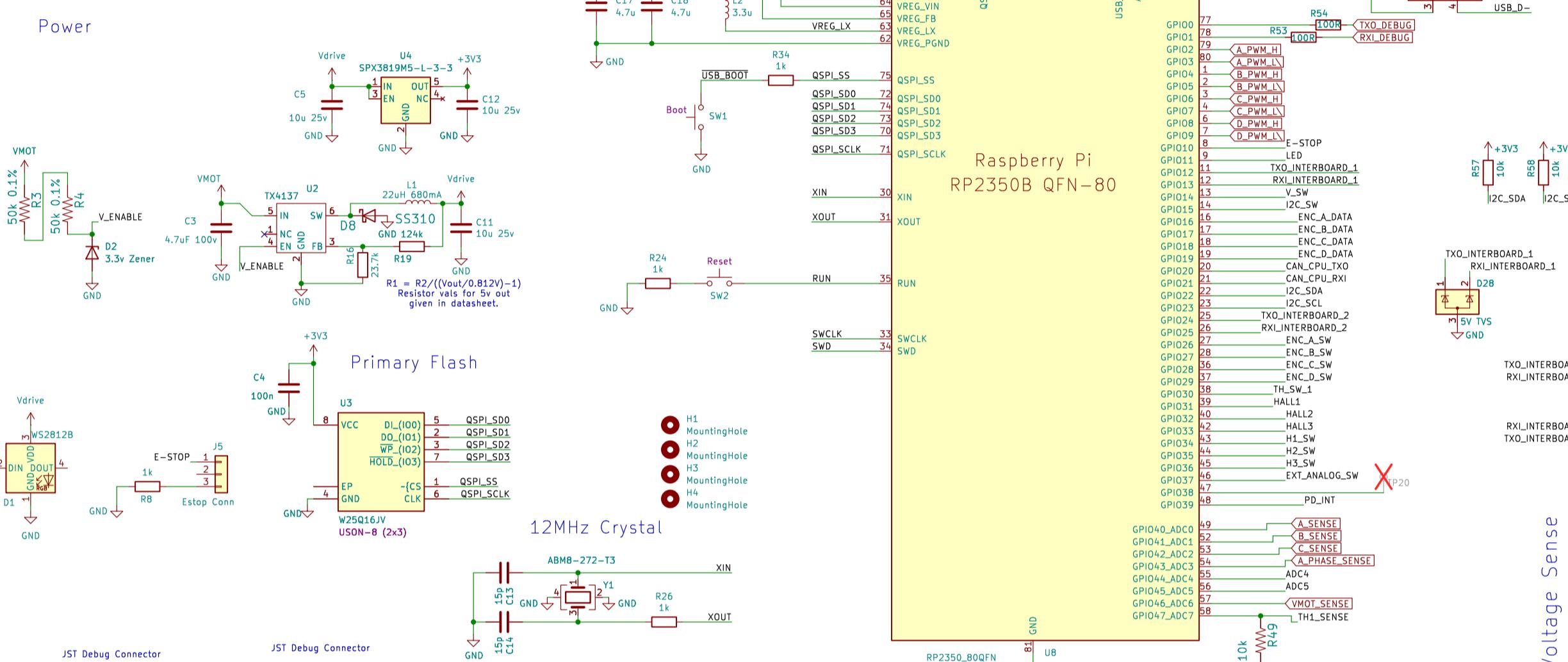


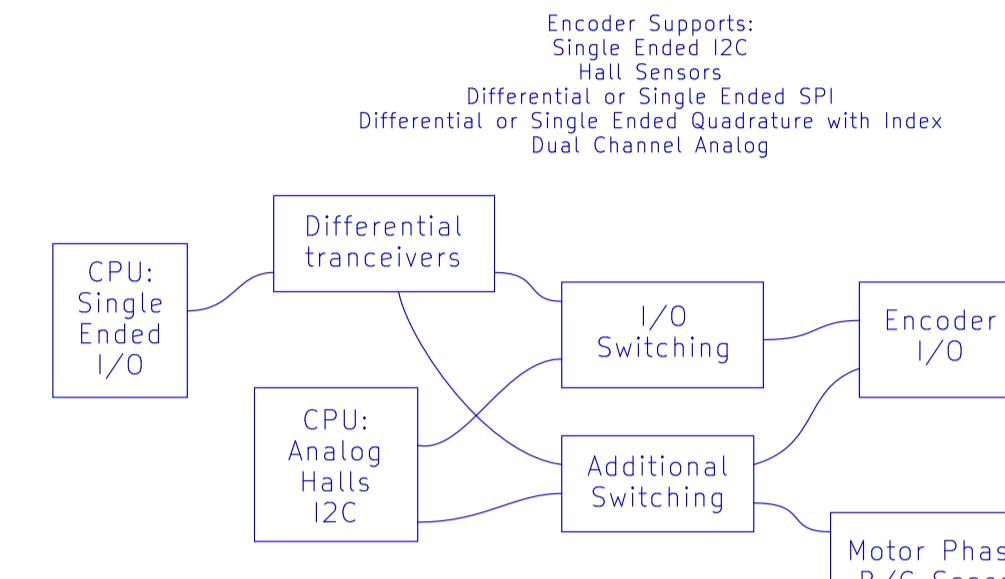
Note: Dual current sense resistors are used to allow for easier use at lower power levels. Remove one resistor or order boards with only one stuffed for more resolution at lower power.



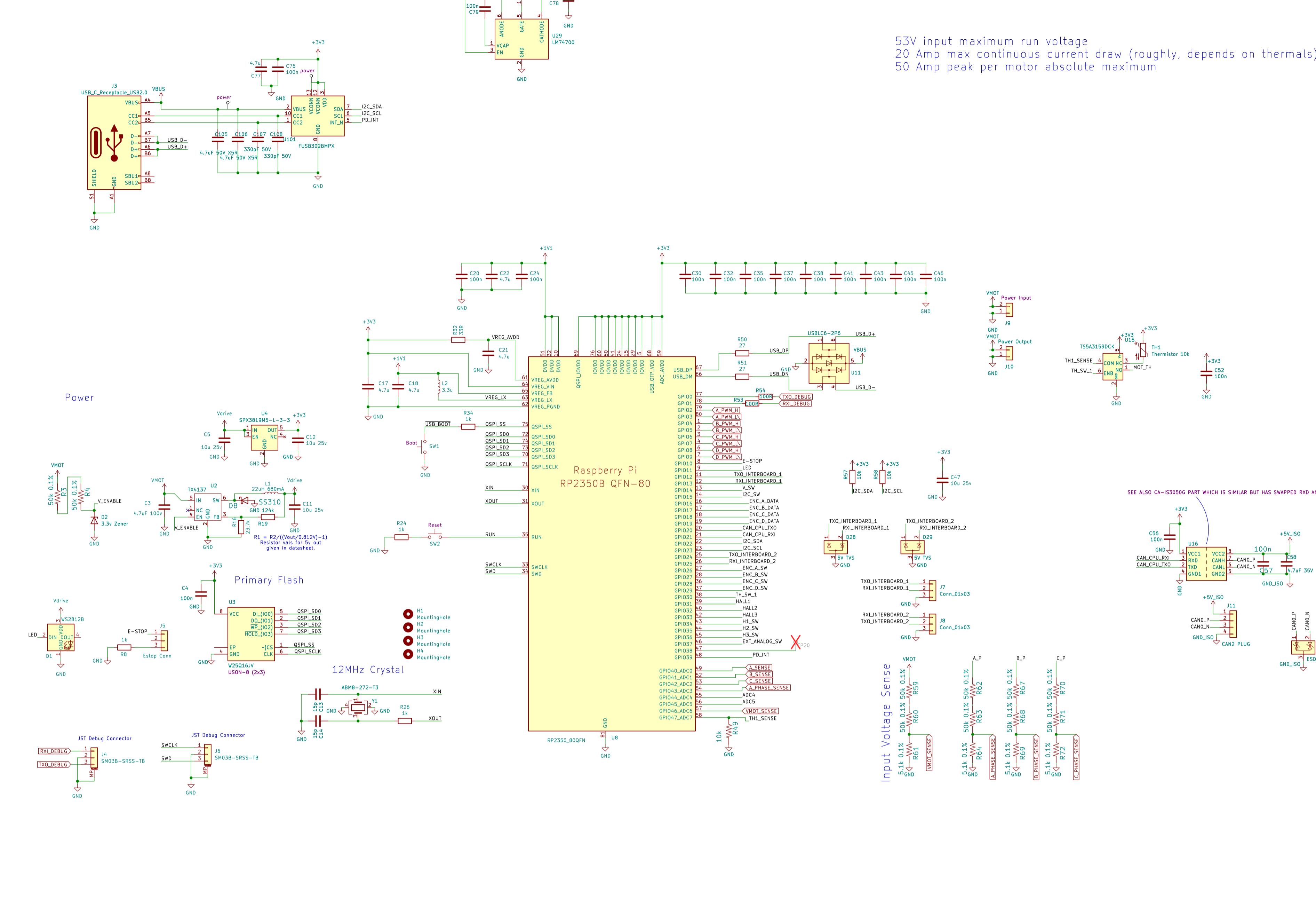
53V input maximum run voltage  
20 Amp max continuous current draw (roughly, depends on thermal)  
50 Amp peak per motor absolute maximum

CONSIDER THERMISTOR VOLTAGE IF MOTOR HALLS RUN AT 5V  
(or punt!?)

## Changelog: July 16 2024



Encoder Supports:  
Single Ended I2C  
Hall Sensors  
Differential or Single Ended SPI  
Differential or Single Ended Quadrature with Index  
Dual Channel Analog



Pinout diagram for the ENC\_C\_P connector:

- Pin 1: NC COM
- Pin 2: GND
- Pin 3: Z
- Pin 4: ENC\_C\_P
- Pin 5: VDD

EXT\_ANALOG\_SW can be shared.  
We either route external lines  
to the ADC or those lines go to  
differential transceivers and we  
d B and C phase sense with analog