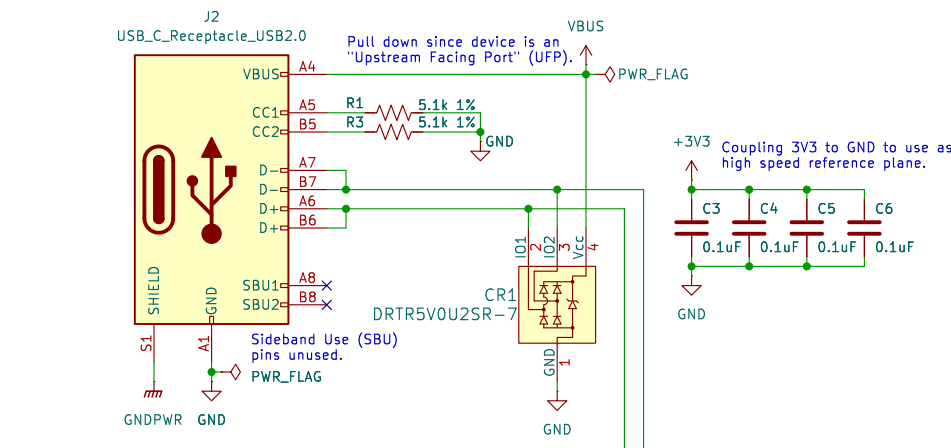
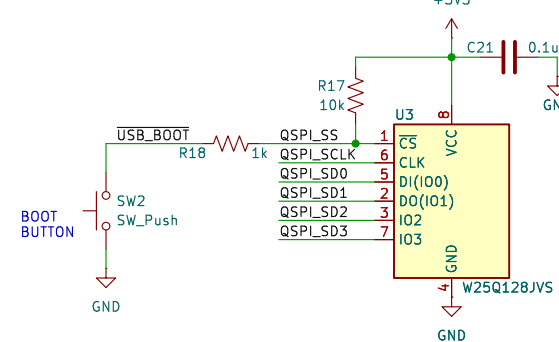


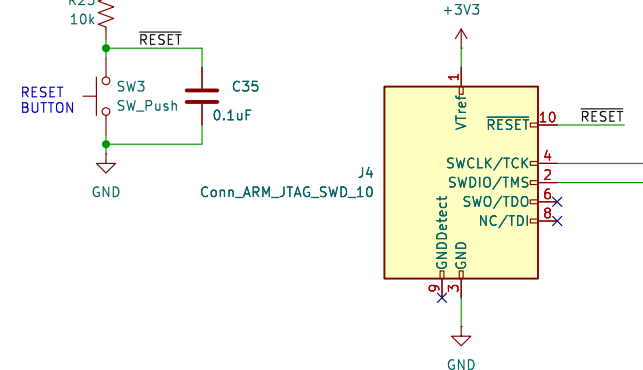
USB C Connector



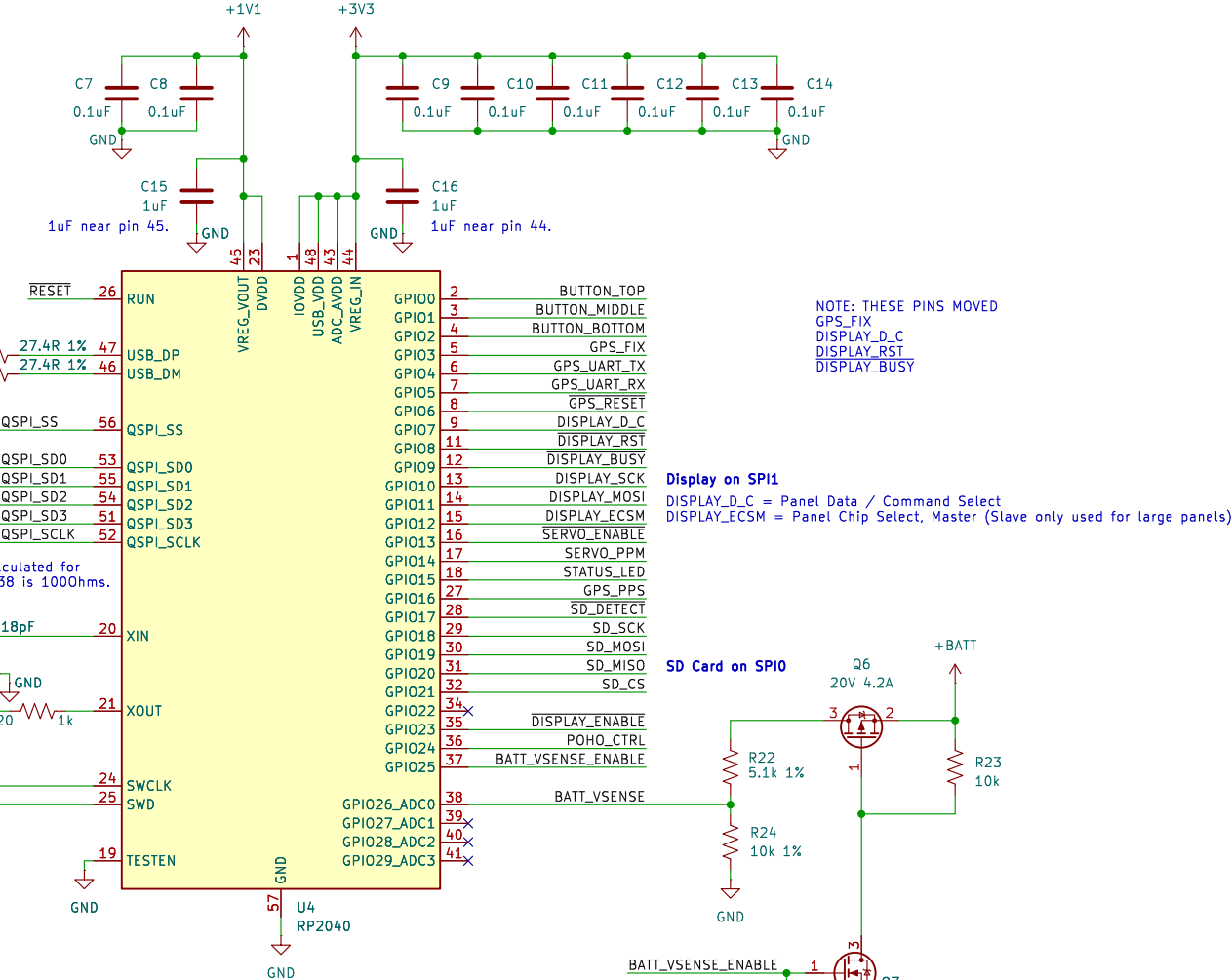
Flash Memory



Programming Connector



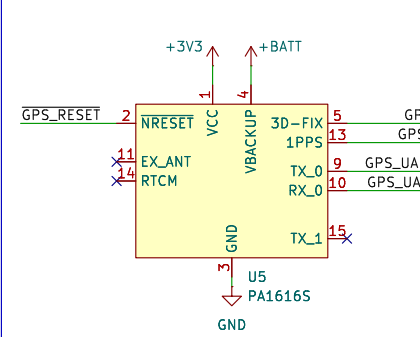
RP2040 Microcontroller



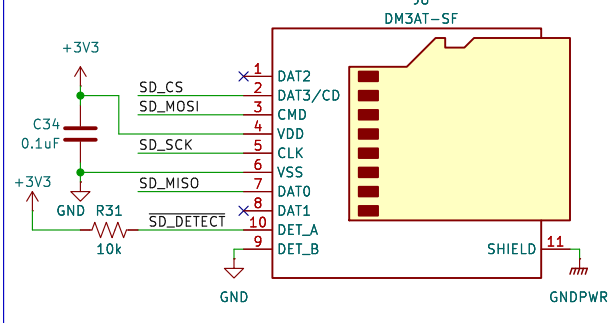
NOTE: THESE PINS MOVED
GPS_FIX
DISPLAY_D_C
DISPLAY_RST
DISPLAY_BUSY

Display on SPI1
DISPLAY_D_C = Panel Data / Command Select
DISPLAY_ECSCM = Panel Chip Select, Master (Slave only used for large panels)

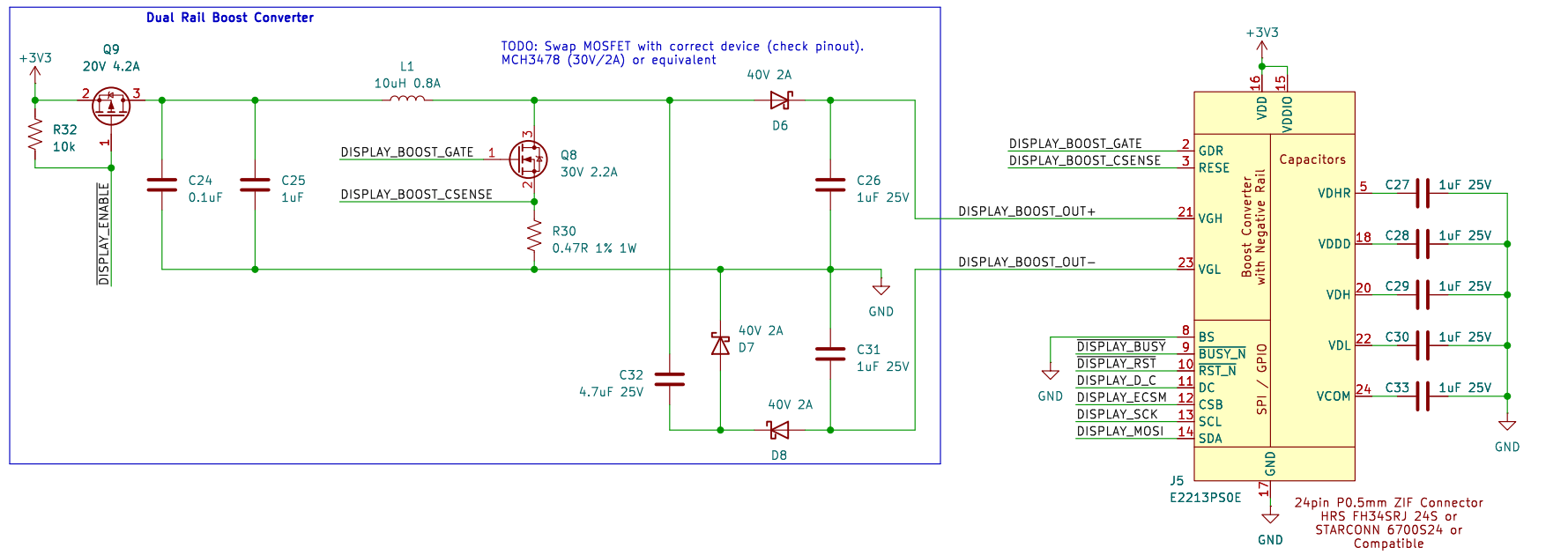
GPS Module



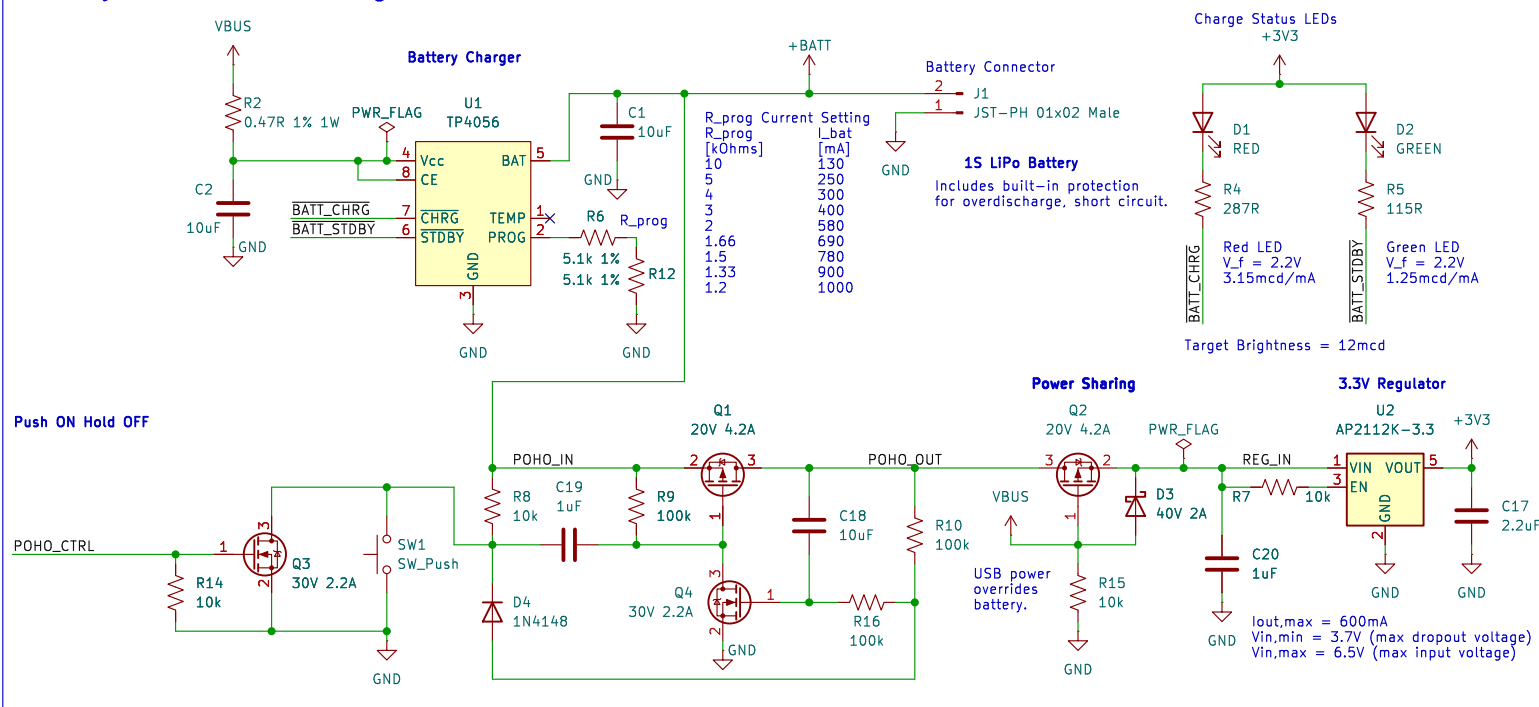
SD Card



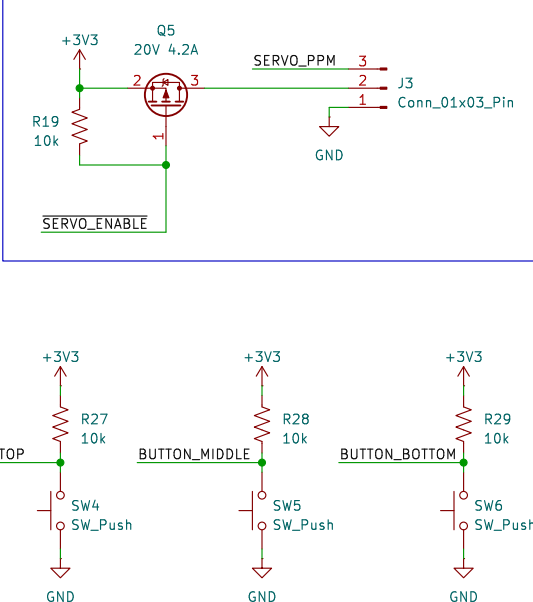
E-Paper Display



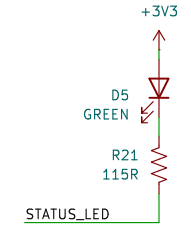
Battery and Power Management



Servo Connector with Power Switch



Status LED



See USB Type-C Spec for resistor values:
<https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf>

RP2040 Hardware Design Guide:
<https://datasheets.raspberrypi.com/rp2040/hardware-design-with-rp2040.pdf>



Pants for Birds

Sheet: /
File: gshps.kicad_sch

Title: Global Scavenger Hunt Positioning System

Size: C Date: 2025-03-12

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Rev: D

Id: 1/1