Signal

Power

Sensor

OPEN ITEMS: (SETH)
-USB C input compatibility
-Current limits for parts
-Charge and power rest of circuit at same time
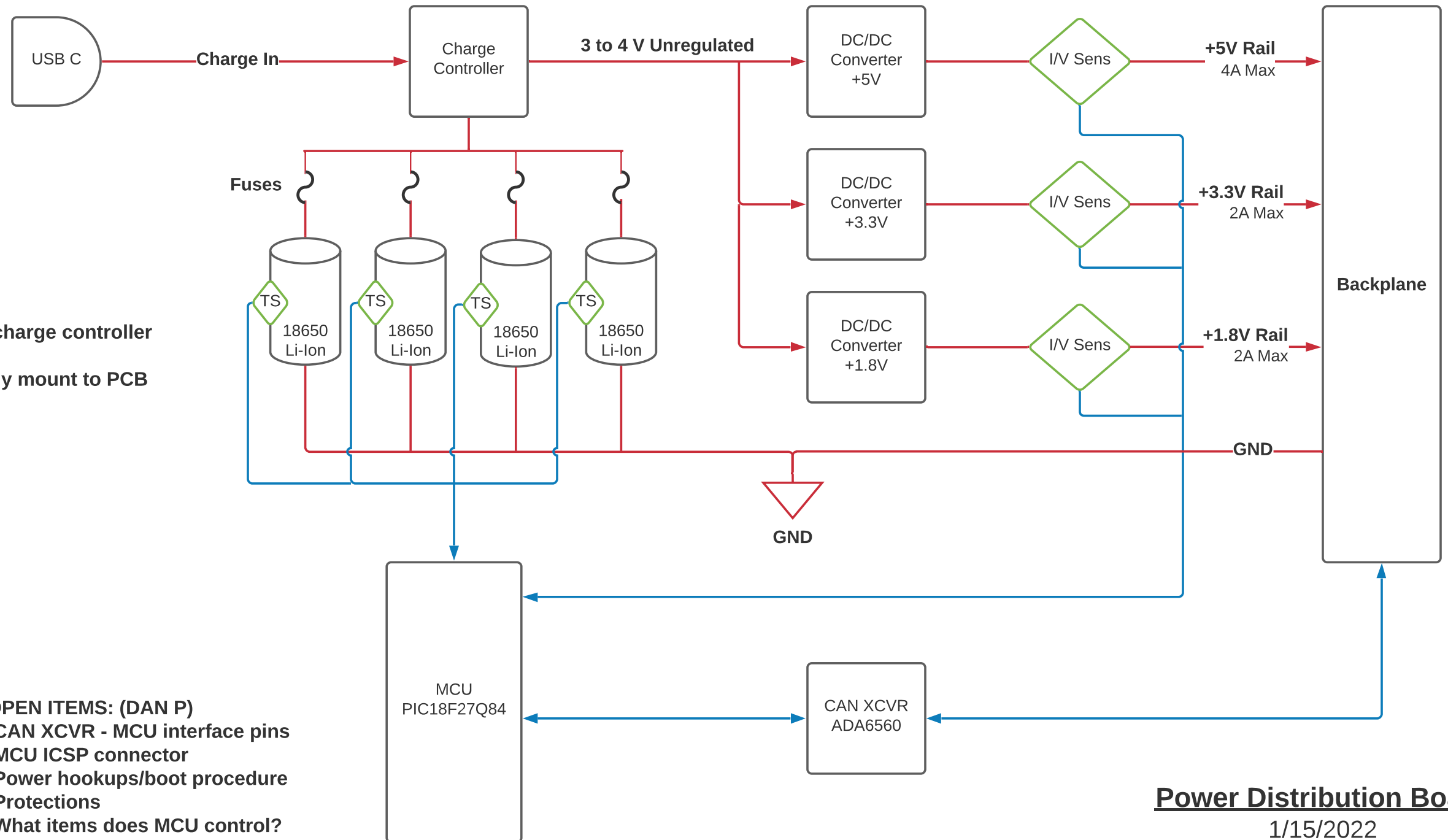-Battery level
-charge status

OPEN ITEMS: (ALEC)
-Find 3.3 and 1.8 regulators (assume 2 amps)
-What currents draw
-OVP (redundancy?)
-OCP (redundancy?)
-TLM (Output voltages & current amounts)

OPEN ITEMS: (DAN T)
-**Individual sensors per bat?**
-**fuse/ and or relay?**
-**do batteries discharge through charge controller or not?**
-**How does battery pack physically mount to PCB (or does it?)**

OPEN ITEMS: (DAN P)
-CAN XCVR - MCU interface pins
-MCU ICSP connector
-Power hookups/boot procedure
-Protections
-What items does MCU control?

USB C

Charge Controller

3 to 4 V Unregulated

Charge In

Fuses

TS
18650 Li-Ion

TS
18650 Li-Ion

TS
18650 Li-Ion

TS
18650 Li-Ion

DC/DC Converter +5V

DC/DC Converter +3.3V

DC/DC Converter +1.8V

I/V Sens

I/V Sens

I/V Sens

+5V Rail
4A Max

+3.3V Rail
2A Max

+1.8V Rail
2A Max

GND

GND

Backplane

MCU
PIC18F27Q84

CAN XCVR
ADA6560

<u>**Power Distribution Board**</u>

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