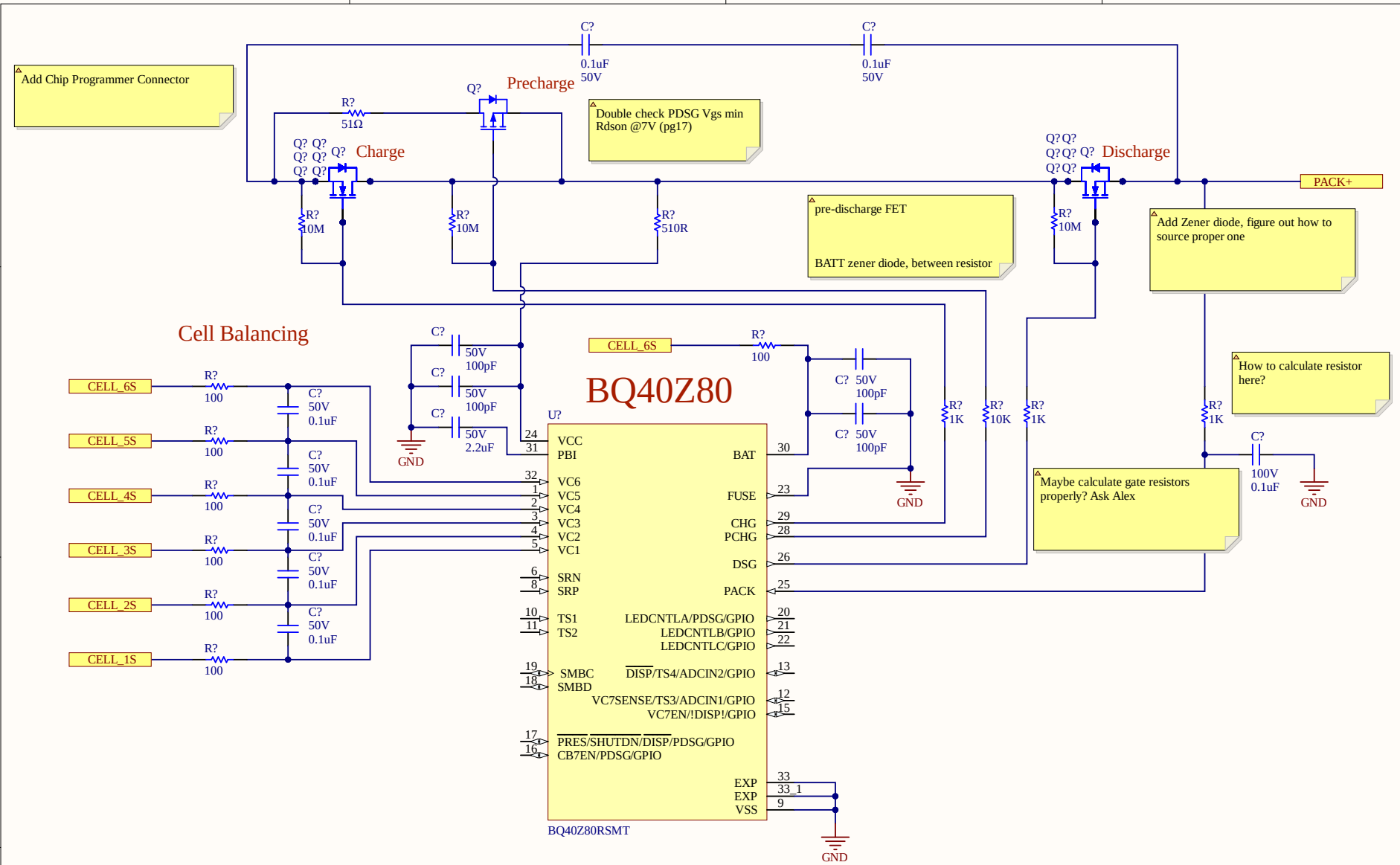
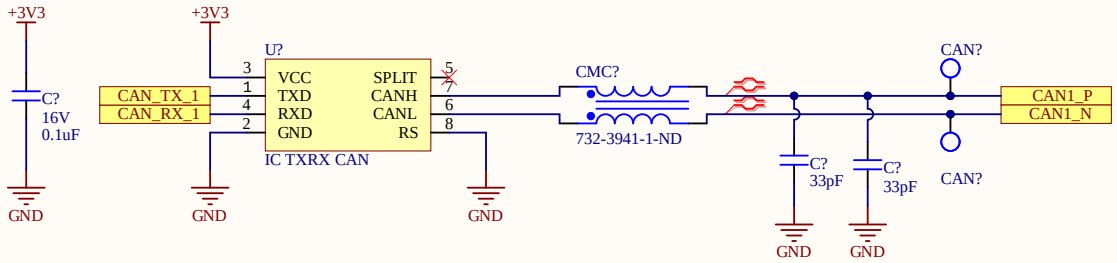
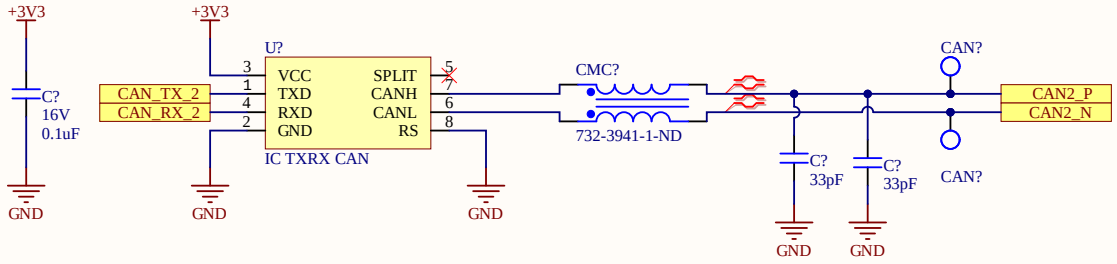


Title Battery Manager		
Size: Letter	Drawn By: Ayesha Ebrahim	
Date: 2020-04-29	Sheet * of *	
File: C:\Users\ayesh\Documents\GitHub\MarsRover2020-PCB\Projects\BMS\Rev1\Battery Manager.SchDoc		

CAN 1



CAN 2



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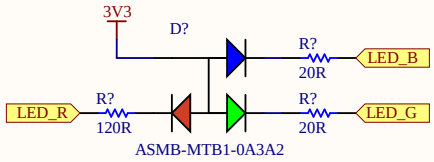
Size: Letter	Drawn By: Ayesha Ebrahim		
Date: 2020-04-29	Sheet * of *		
File: C:\Users\ayesh\Documents\GitHub\MarsRover2020-PCB\Projects\BMS\Rev1\CAN.SchDoc			

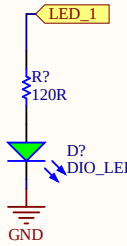
Test LEDs



Current Calculations

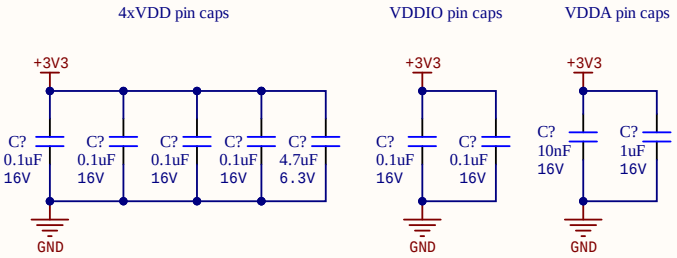
Green LED voltage drop: 2.2V
- I = (3.3-2.2V)/120 = 10.83mA

RGB LED voltage drops:
- Red: 2.1V: I = (3.3-2.1V)/120 = 10mA
- Blue: 3.1V: I = (3.3-3.1V)/20 = 10mA
- Green: 3.1V: I = (3.3-3.1V)/20 = 10mA

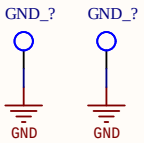


STM32F446RET6

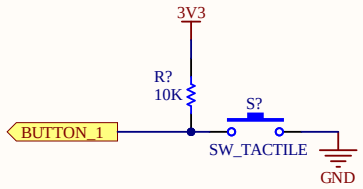
Decoupling Caps



GND Test Points



Test Button



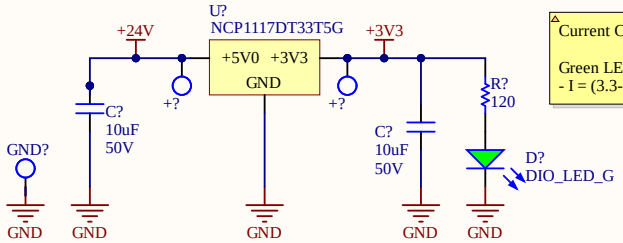
MOUNTING_HOLES

Title MCU			
Size: Letter	Drawn By: Ayesha Ebrahim		
Date: 2020-04-29	Sheet * of *		
File: C:\Users\ayesh\Documents\GitHub\MarsRover2020-PCB\Projects\BMS\Rev1\MCU.SchDoc			

Update to new LDO

Add XTAL Connector and Battery Balancing Connector

24V to 3V3 LDO



Current Calculations

Green LED voltage drop: 2.2V
- I = (3.3-2.2V)/120 = 10.83mA

Title Power			
Size: Letter	Drawn By: Ayesha Ebrahim		
Date: 2020-04-29	Sheet * of *		
File: C:\Users\ayesh\Documents\GitHub\MarsRover2020-PCB\Projects\BMS\Rev1\Power.SchDoc			