

A

A

B

B

C

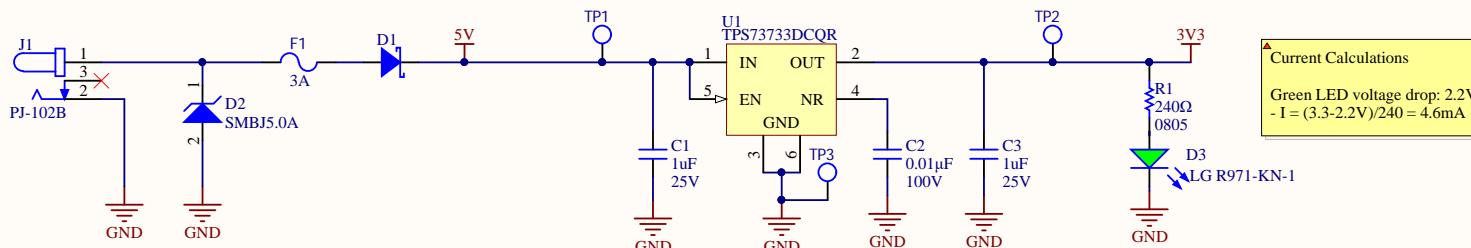
C

D

D

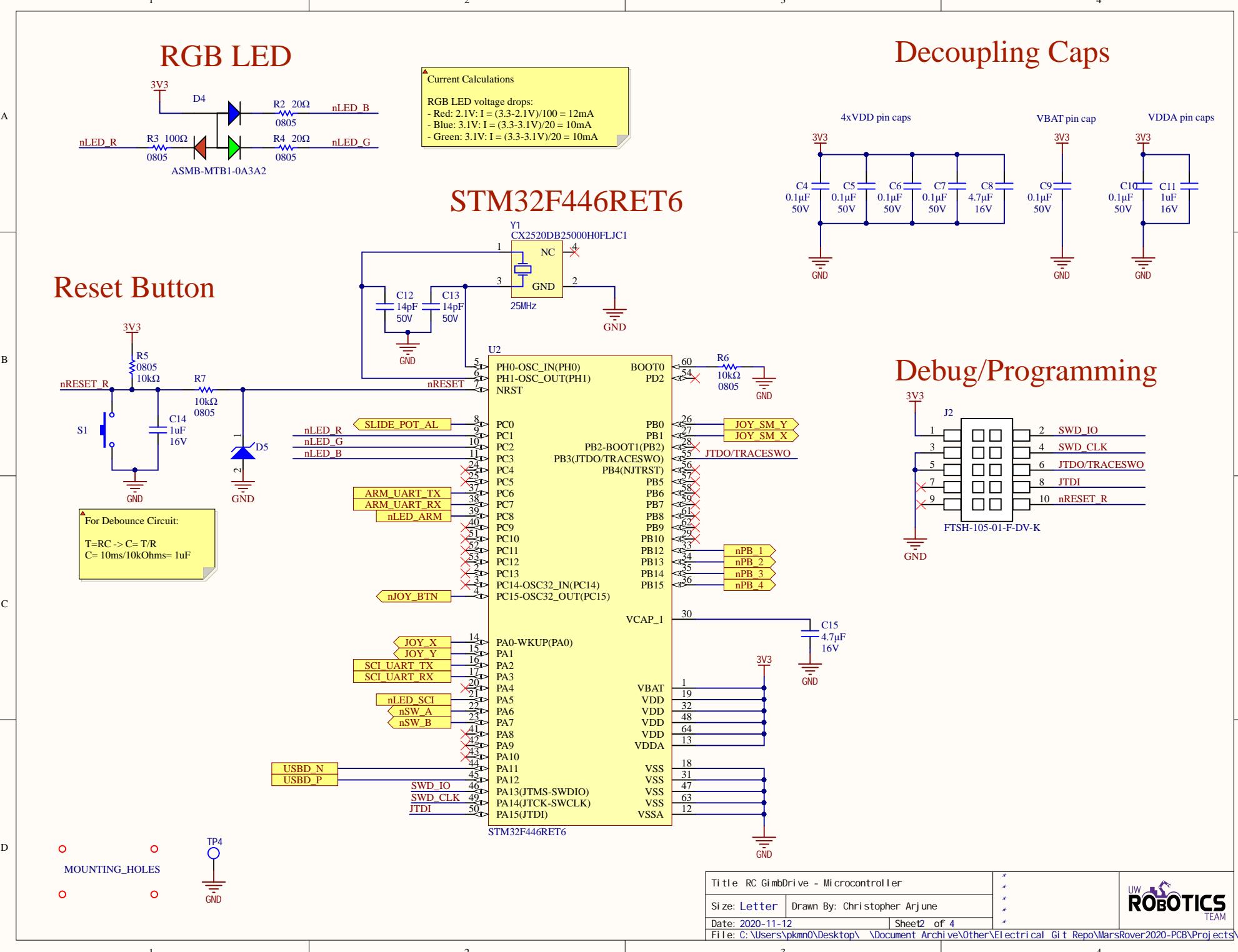
Power In

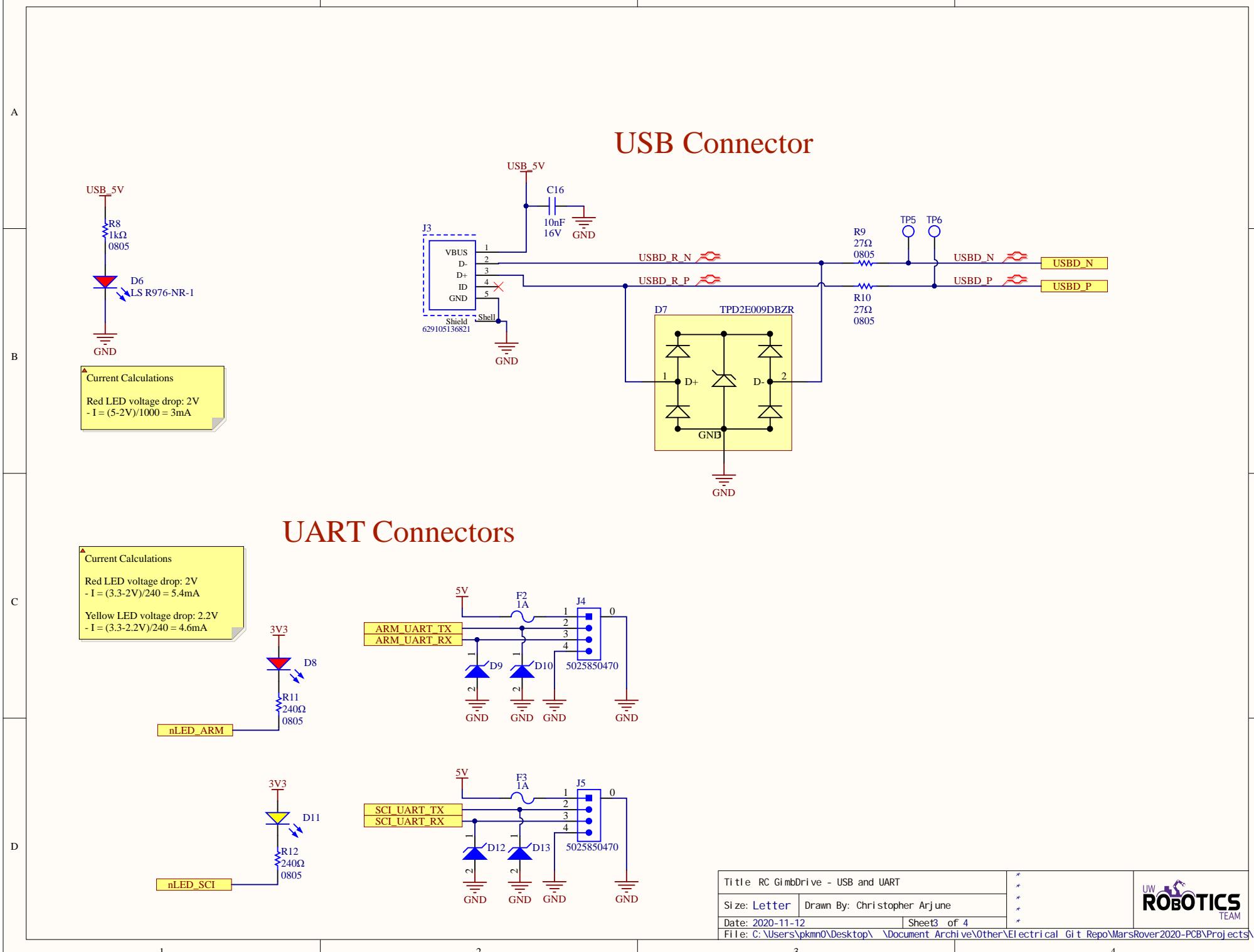
5V to 3V3 LDO



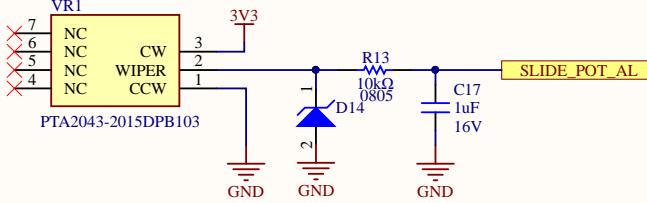
Title: RC GimbalDrive - Power	*
Size: Letter	Drawn By: Christopher Arjune
Date: 2020-11-12	Sheet1 of 4
File: C:\Users\pkmn0\Desktop\Document Archive\Other\Electrical Git Repo\MarsRover2020-PCB\Projects\Robot Controller\	







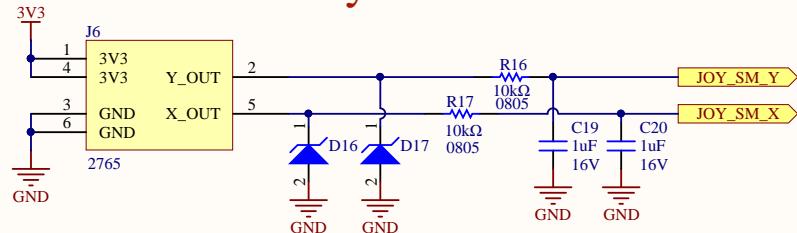
Slide Potentiometer



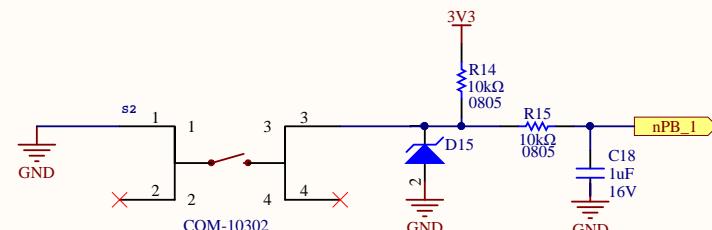
For Debounce Circuits:

$$T=RC \rightarrow C = T/R \\ C = 10\text{ms}/10\text{kOhms} = 1\mu\text{F}$$

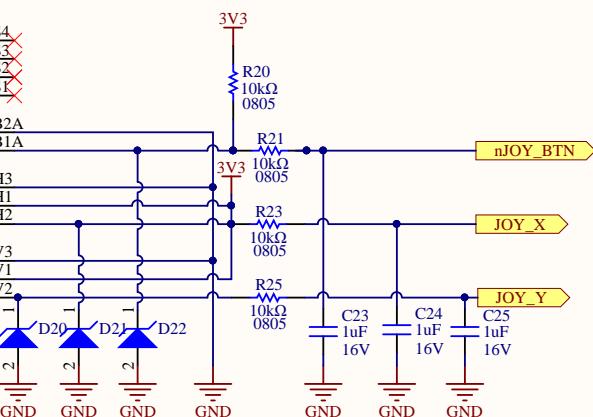
2-Axis Joysticks



Pushbuttons



J7



Controls (subject to change)

Joysticks:

- 1: Large joystick is used for driving
- 2: Small joystick is used for gimbal

Potentiometer:

- Used for driving speed control

Switch:

- Used for reverse-mode toggle

Buttons:

- 1: Full-stop (halt all movement immediately)
- 2-4: Extra, in case additional functionality is requested

SPDT Switch

