This PCB will be used for the remote e-stop system in two places. 1. This PCB interfaces a sender Feather MO with the button and the Adafruit Nokia 5110 breakout board. 2. This PCB interfaces a receiver Feather MO with the kill signal which will signal the e-stop PCB to kill the motor signals. +5٧ 5V was chosen as it was required for the 5110 but also works with the Feather MO using its internal 3v3 regulator. U1 AdafruitFeatherMOLoRa GND 32 RST 31 30 ARf SIG\_KILL 2 Kill Signal J2 +5٧ 29 GND 29 GND
27 A0
26 A1
25 A2
24 A3
23 A4
22 A5
21 SCK
21 MOSI
20 MISO Ţ GND VBAT 16 VUSB 14 GND D13 13 SIG\_KILL SW1 D12 12 DSPL\_RST Stop Button
Note: SIG\_STOP is active low and uses the Feather MO's internal pullup resistor. D11 D10 10 DSPL\_DC 9 SIG\_STOP 8 DSPL\_DIN 20 MISO 19 RX0 D5 SCL SDA GND 18 TX1 17 DIO1 Ant DI05 DSPL\_SCLK 3 CLK 4 3 5 DSPL\_DIN 4 DIN DSPL\_DC 5 D/C Nokia5110LED GND Noah Zemlin, Sooner Competitive Robotics Sheet: / File: Estop Remote.sch Title: E-Stop Remote Size: USLetter Date: 2020-03-02 Rev: 1 KiCad E.D.A. kicad (5.1.5)-3 ld: 1/1