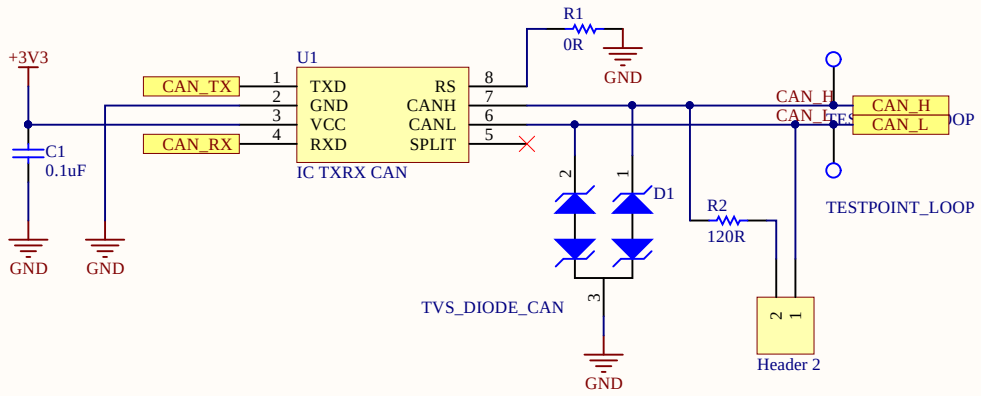
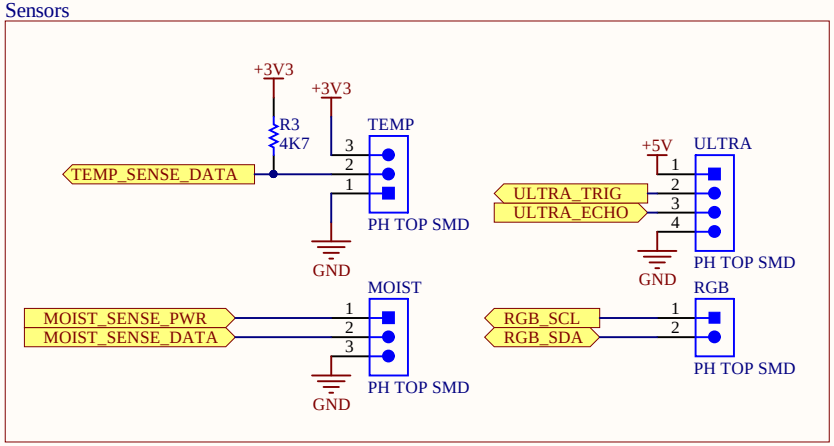
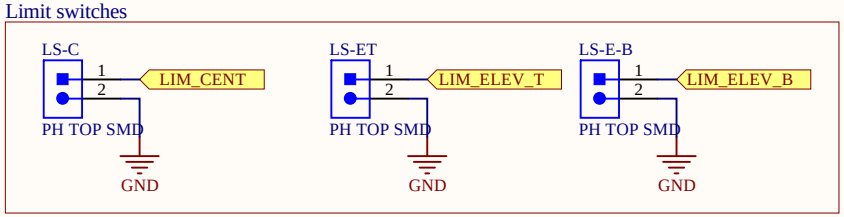


Title		
Science Board CAN		
Size: A4	Number:	Revision: *
Date: 2019-01-27		Sheet * of *
File: C:\Users\..\can.SchDoc		Drawn By: *

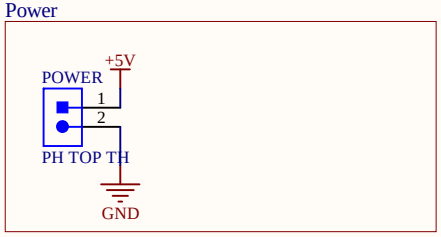
Sensors



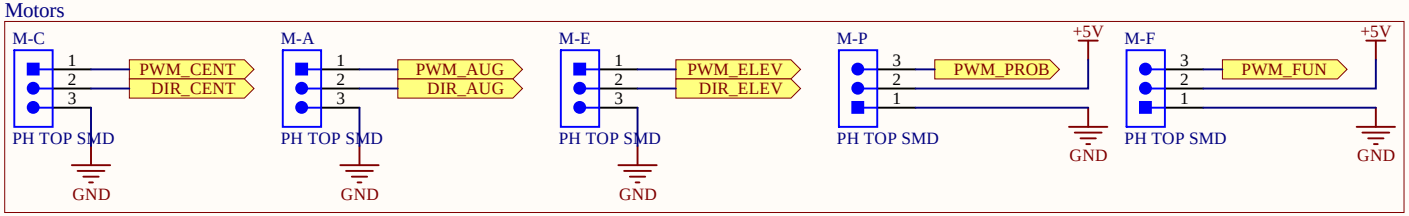
Limit switches



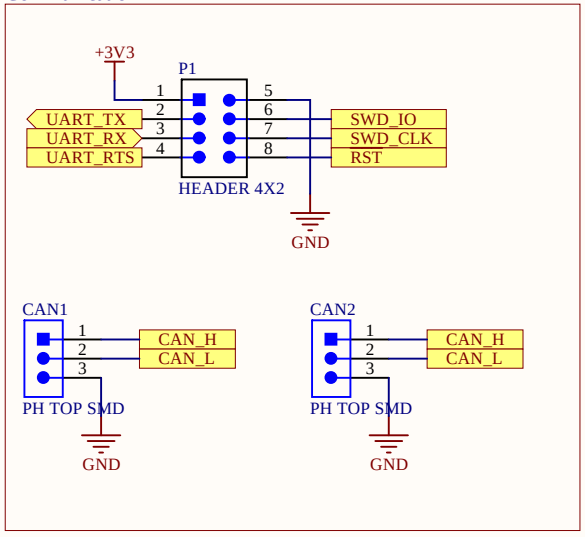
Power



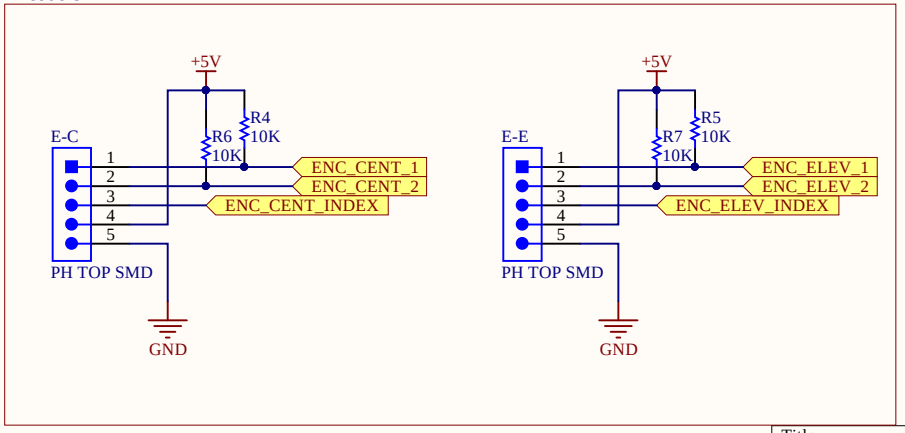
Motors



Communication



Encoders



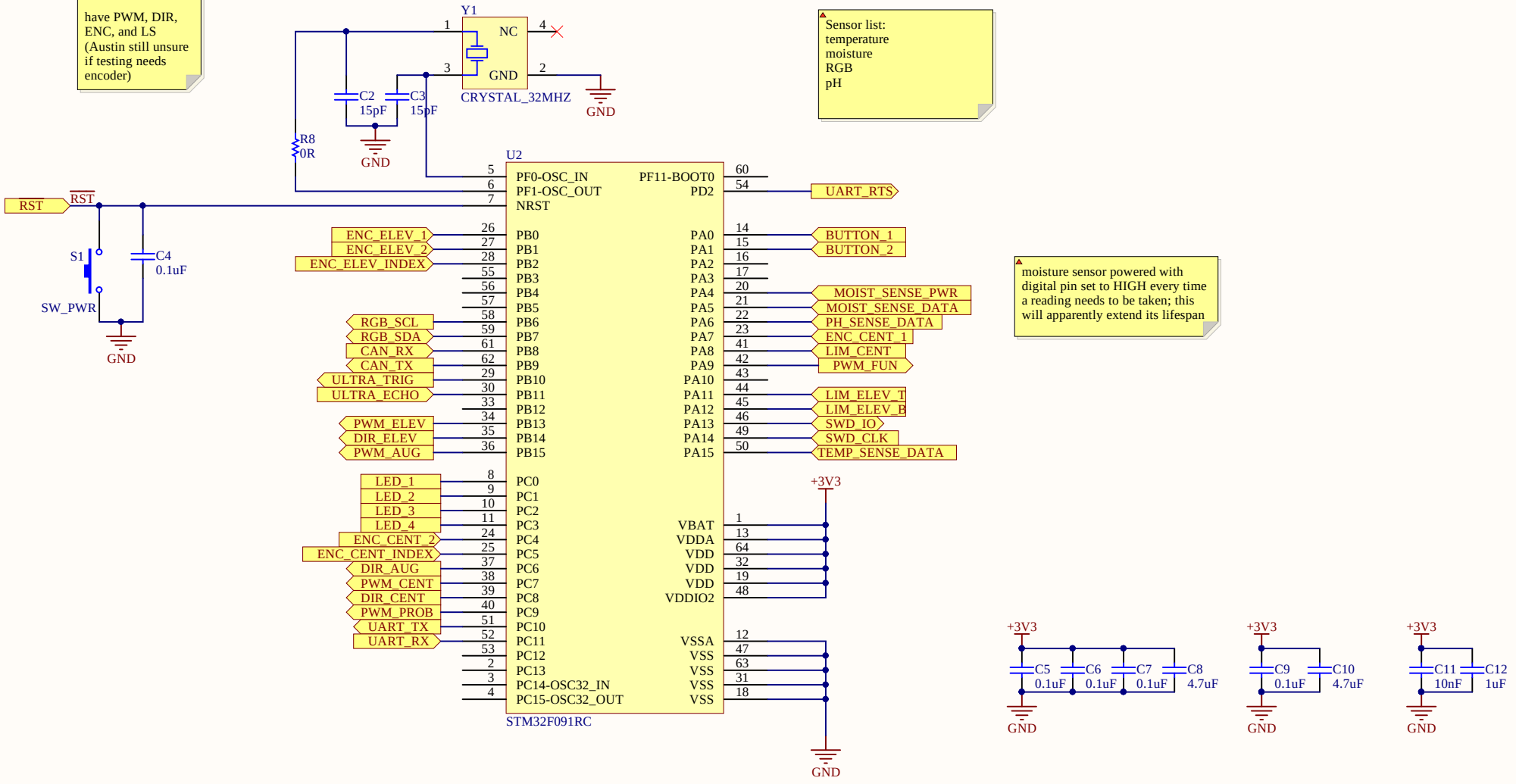
Title: Science Board Connectors		
Size: A4	Number:	Revision: *
Date: 2019-01-27		Sheet * of *
File: C:\Users\..\connectors.SchDoc		Drawn By: Adrianna Ascalon

motors:
testing
elevator
auger

have PWM, DIR, ENC, and LS (Austin still unsure if testing needs encoder)

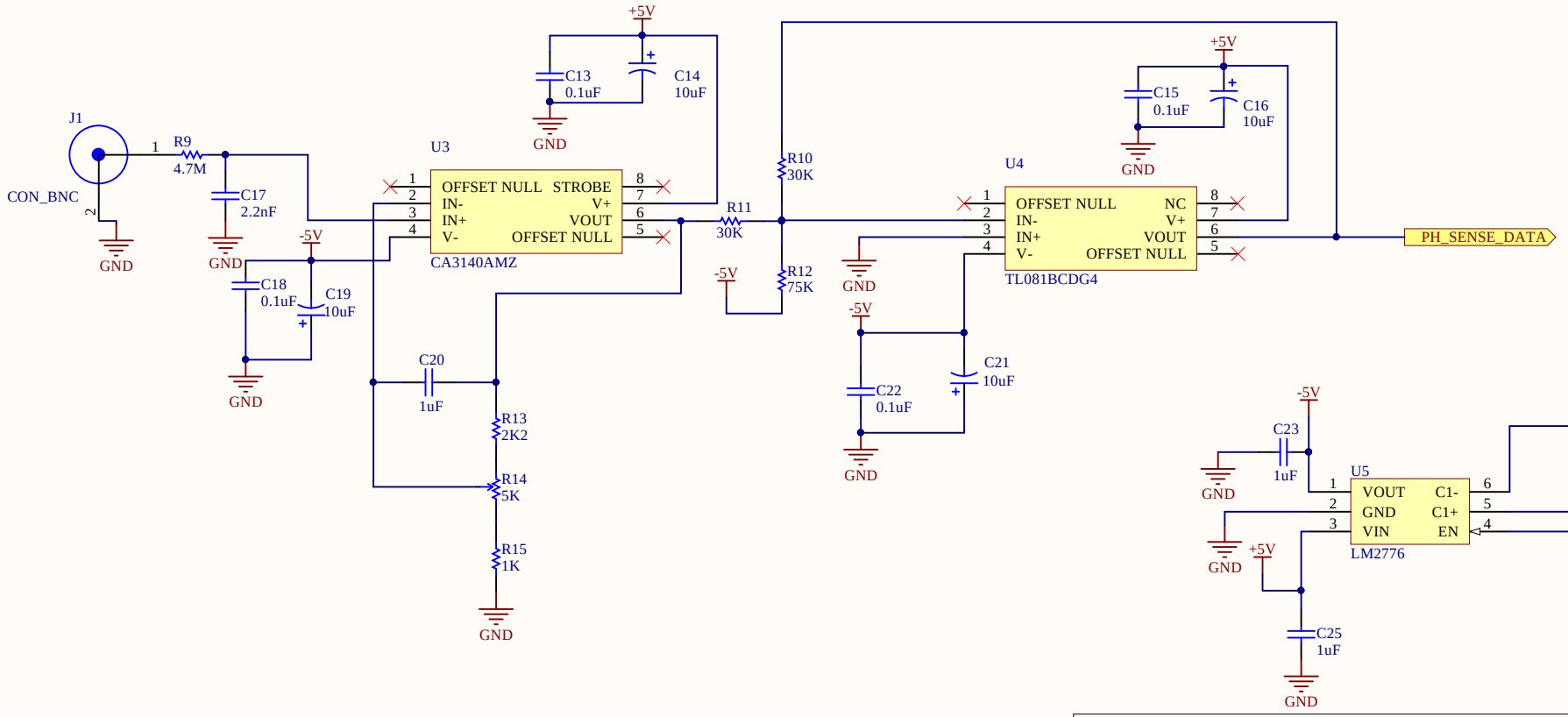
Sensor list:
temperature
moisture
RGB
pH

moisture sensor powered with digital pin set to HIGH every time a reading needs to be taken; this will apparently extend its lifespan

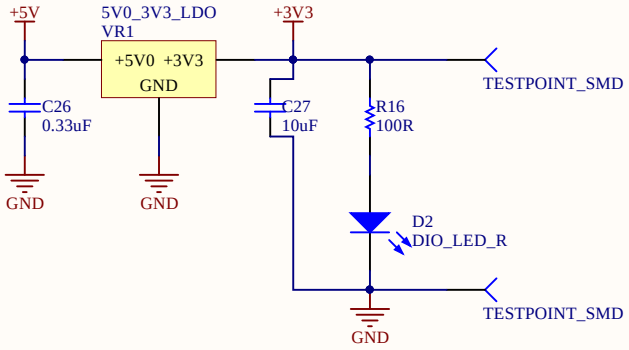


Title: Science Board MCU		
Size: A4	Number:	Revision: *
Date: 2019-01-27		Sheet * of *
File: C:\Users\..\mcu.SchDoc		Drawn By: Adrianna Ascalon

This is a replica of the signal conditioning circuit on the breakout board of the DFRobot SEN0249

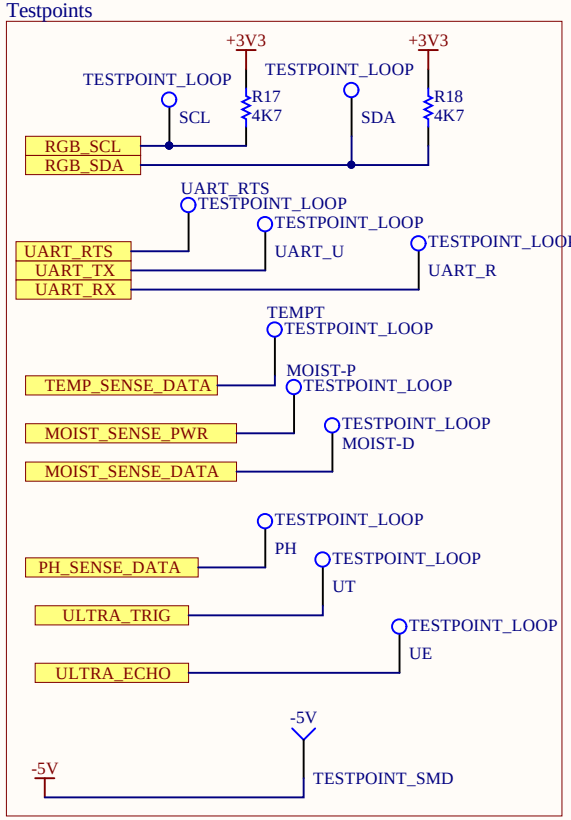


Title	Science Board pH Sensing	
Size: A4	Number:	Revision: *
Date: 2019-01-27		Sheet * of *
File: C:\Users\..\ph.SchDoc		Drawn By:*

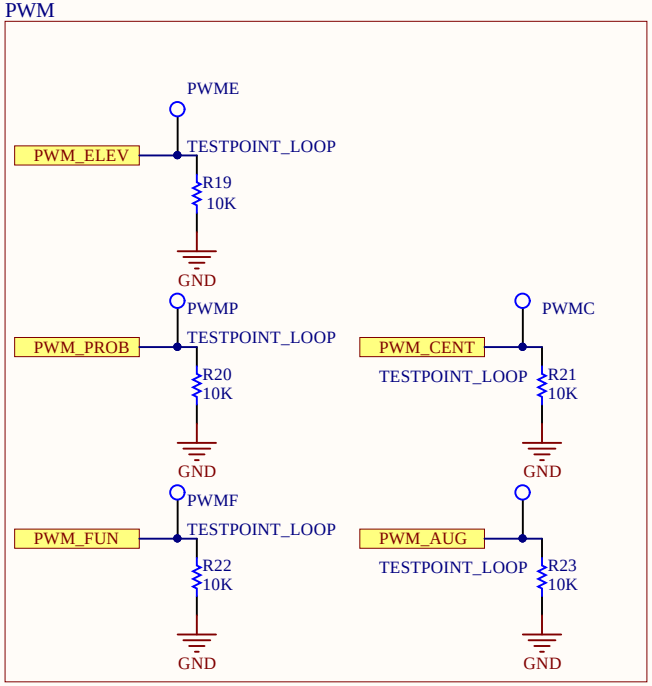


Title		
Power		
Size: A4	Number:	Revision: *
Date: 2019-01-27		Sheet * of *
File: C:\Users\..\power.SchDoc		Drawn By:Adrianna Ascalon

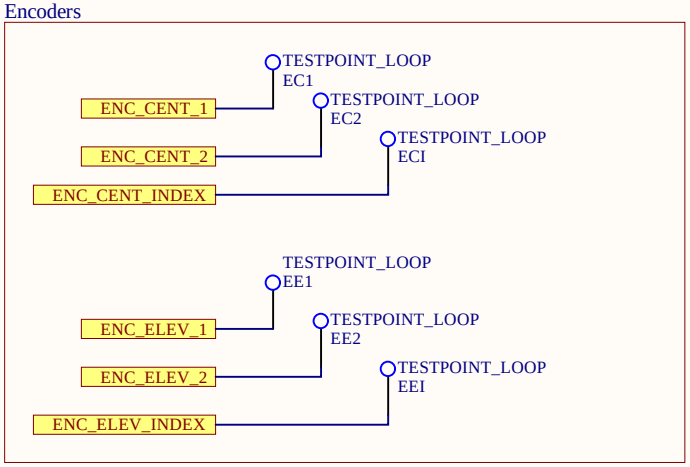
Testpoints



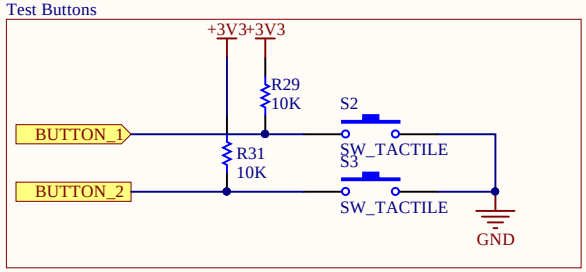
PWM



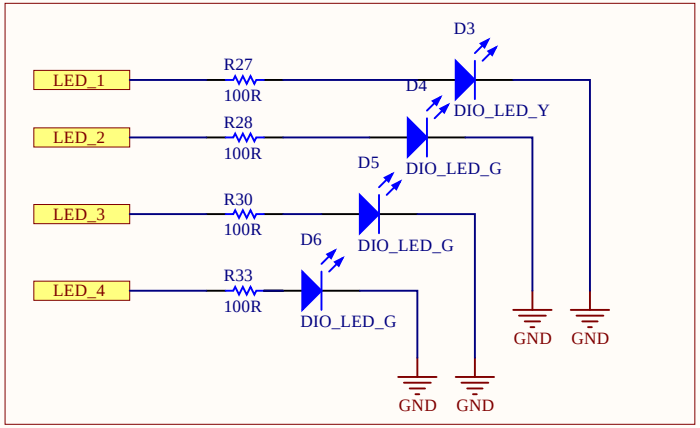
Encoders



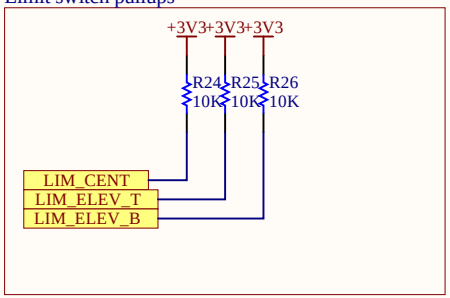
Test Buttons



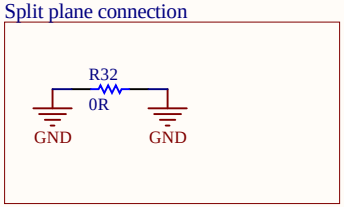
Test LEDs



Limit switch pullups



Split plane connection



MH1 MH2

MOUNTING_HOLES MOUNTING_HOLES

MH3 MH4

MOUNTING_HOLES MOUNTING_HOLES

Title: Support		
Size: A4	Number:	Revision: *
Date: 2019-01-27		Sheet * of *
File: C:\Users\..\support.SchDoc		Drawn By:Adrianna Ascalon