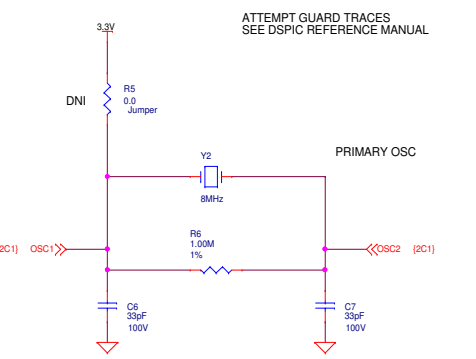
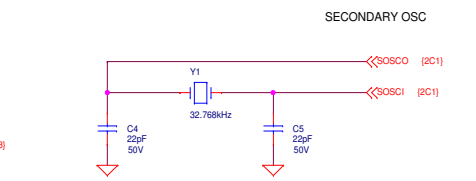
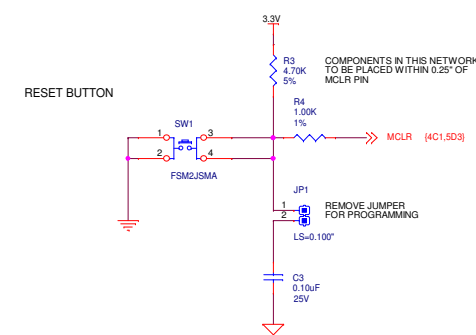
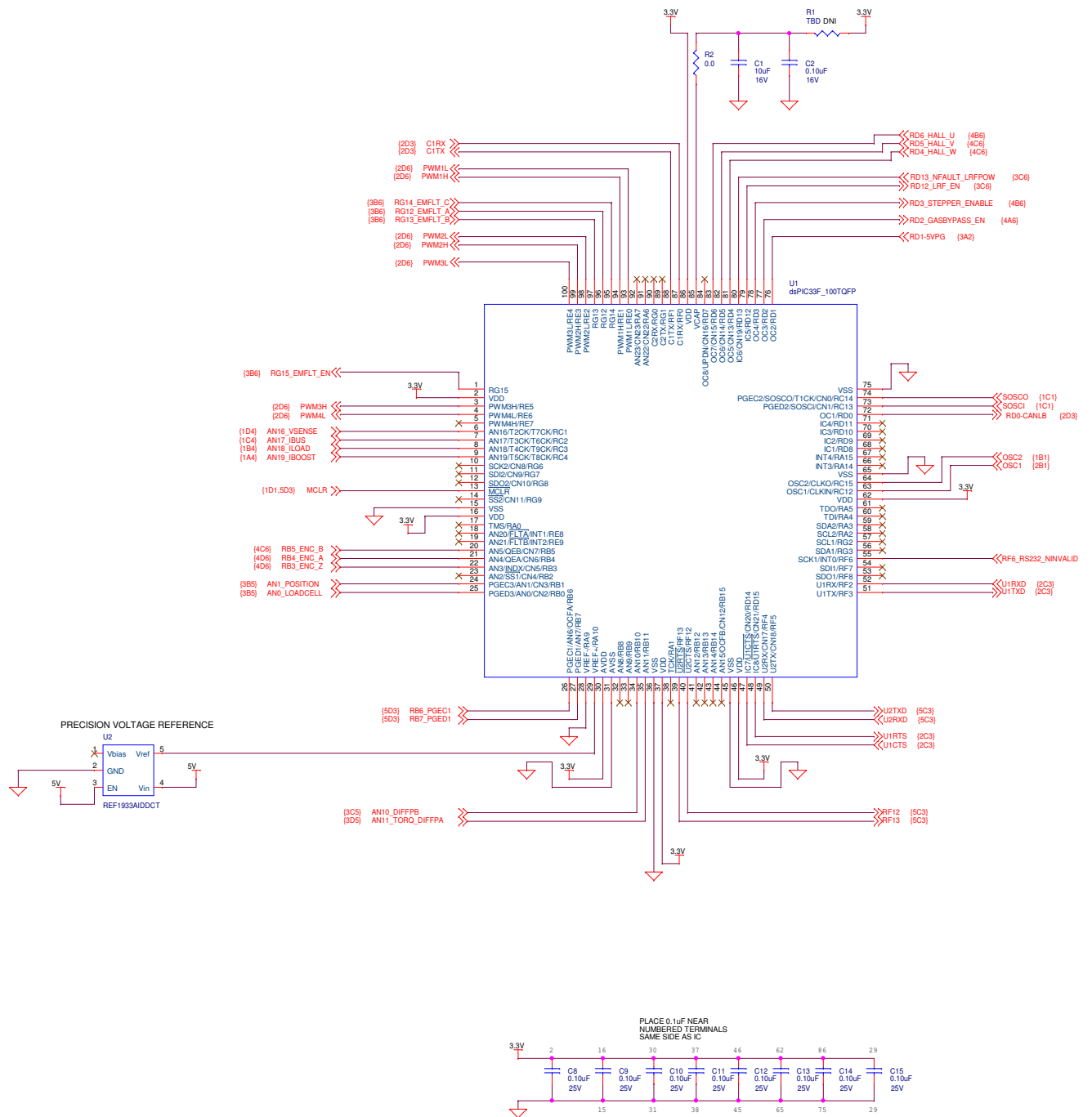
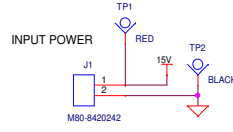
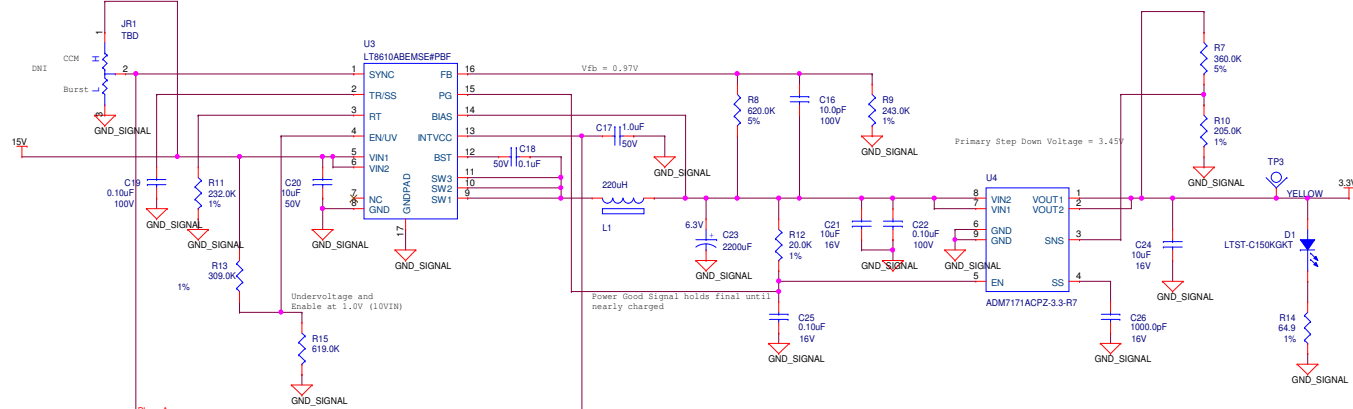




3.3V STEPDOWN



5V STEPDOWN

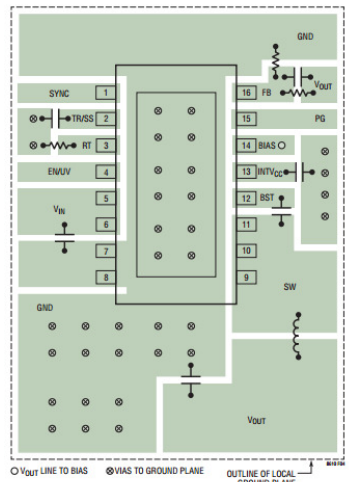
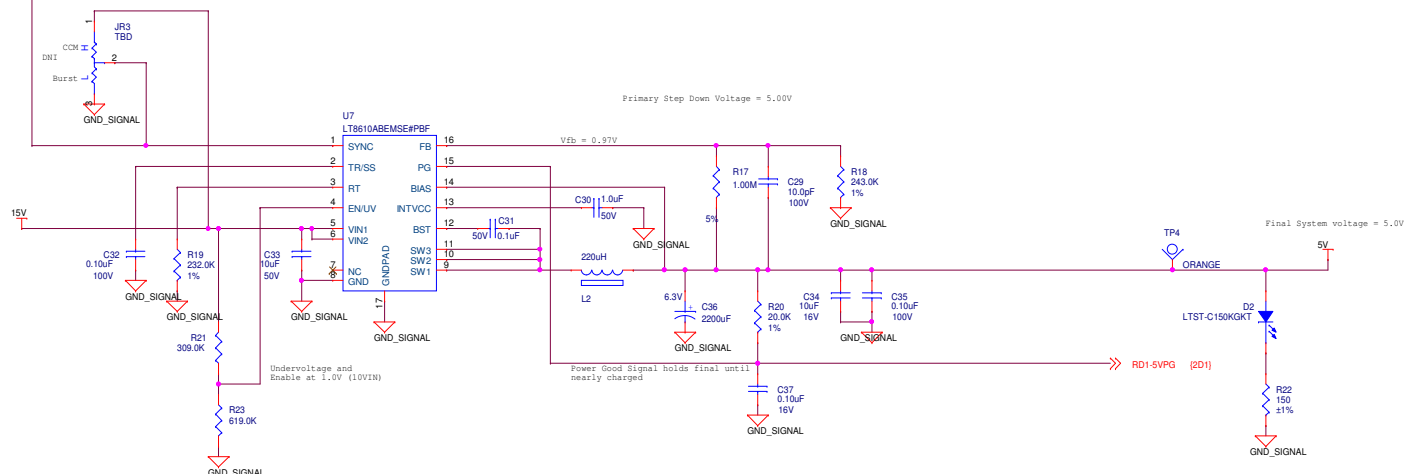
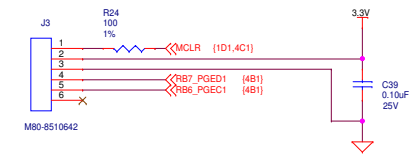
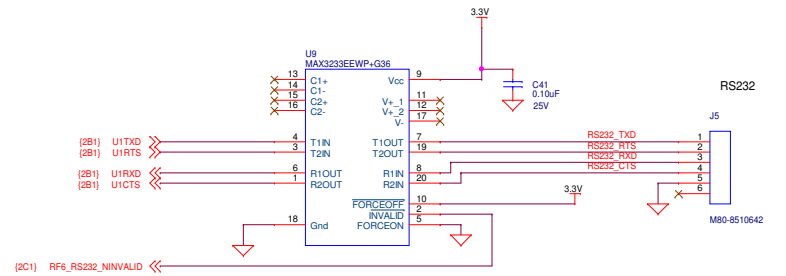
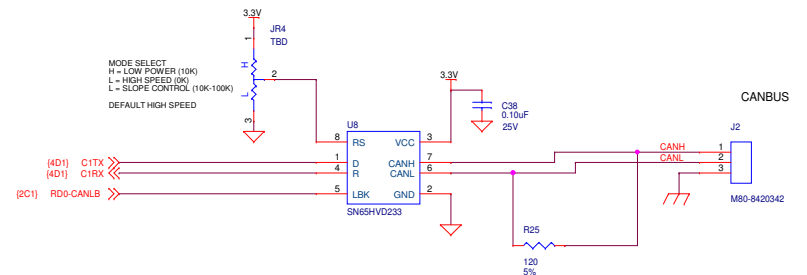
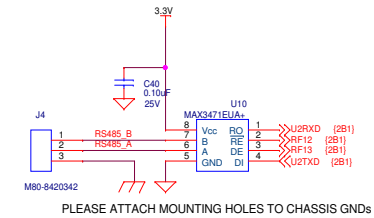


Figure 4. Recommended PCB Layout for the LT8610

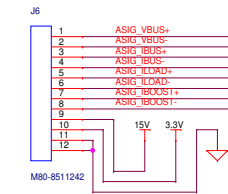
MPLAB ICD CONNECTOR



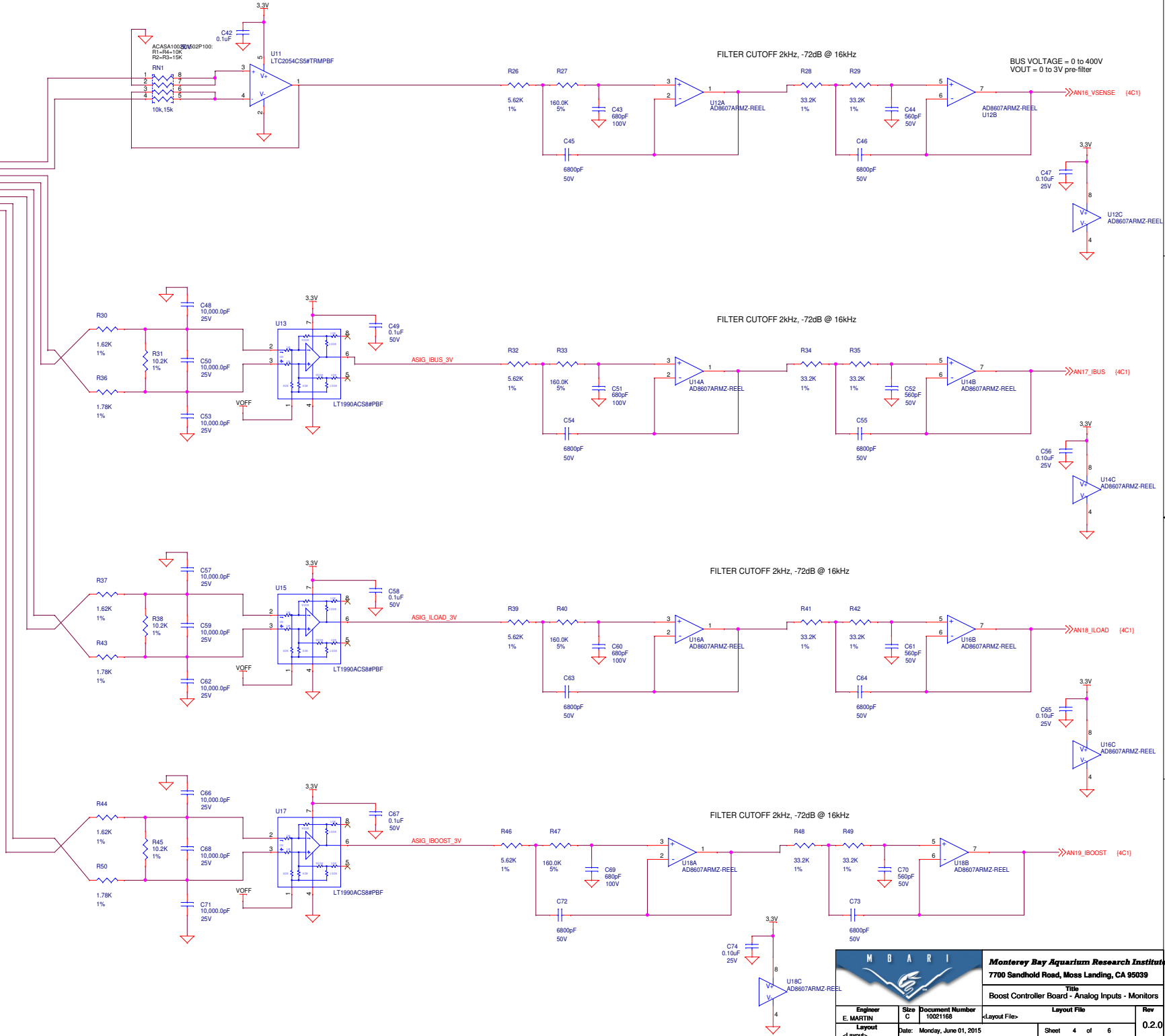
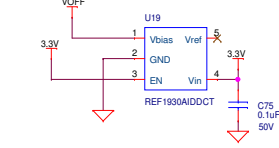
STEPPER MOTOR RS485



GEN HOUSING CONFIG:
VOLTAGE/CURRENT SHUNT MONITOR INPUTS
DIFFERENTIAL 0-5V

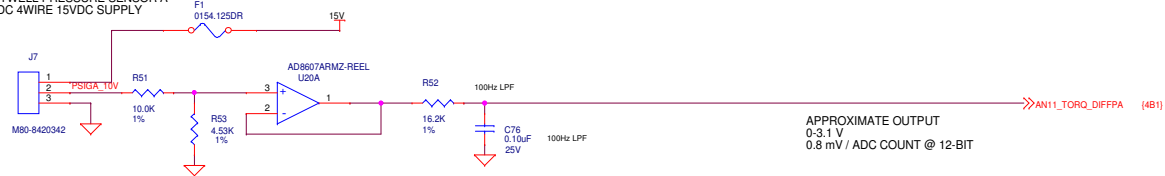


OFFSET VOLTAGE FOR DIFFERENTIAL
TO SINGLE ENDED CONVERSION

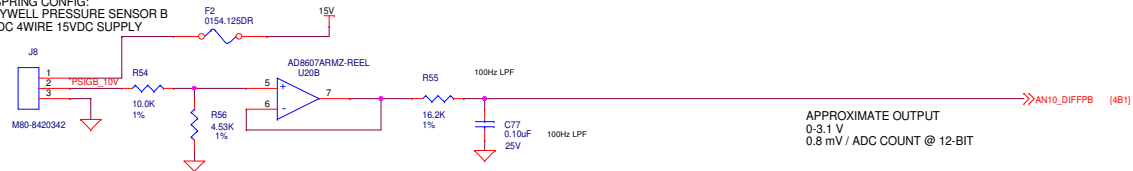


GEN HOUSING CONFIG:
OMEGA DIFF PRESSURE / TORQUE SENSOR
OUTPUT 0-10VDC SUPPLY 15VDC
DO NOT DIRECTLY ATTACH TORQUE SENSOR USE REDLION

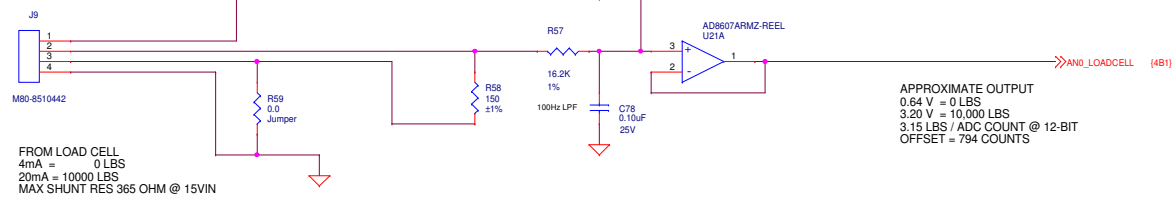
GAS SPRING CONFIG:
HONEYWELL PRESSURE SENSOR A
0-10VDC 4WIRE 15VDC SUPPLY



GAS SPRING CONFIG:
HONEYWELL PRESSURE SENSOR B
0-10VDC 4WIRE 15VDC SUPPLY

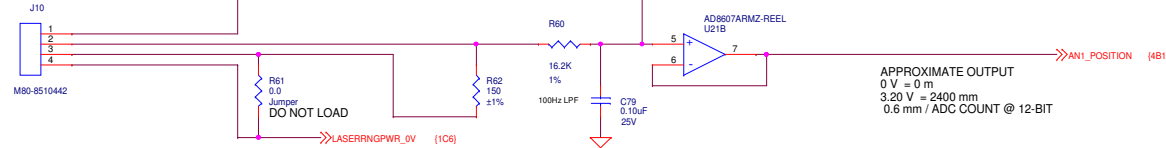


GAS SPRING CONFIG:
LOAD CELL ICA5
OUTPUT 4-20mA 2-WIRE
SUPPLY 7.5-28VDC
LOOP ON PINS 1 & 2

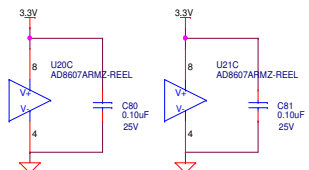


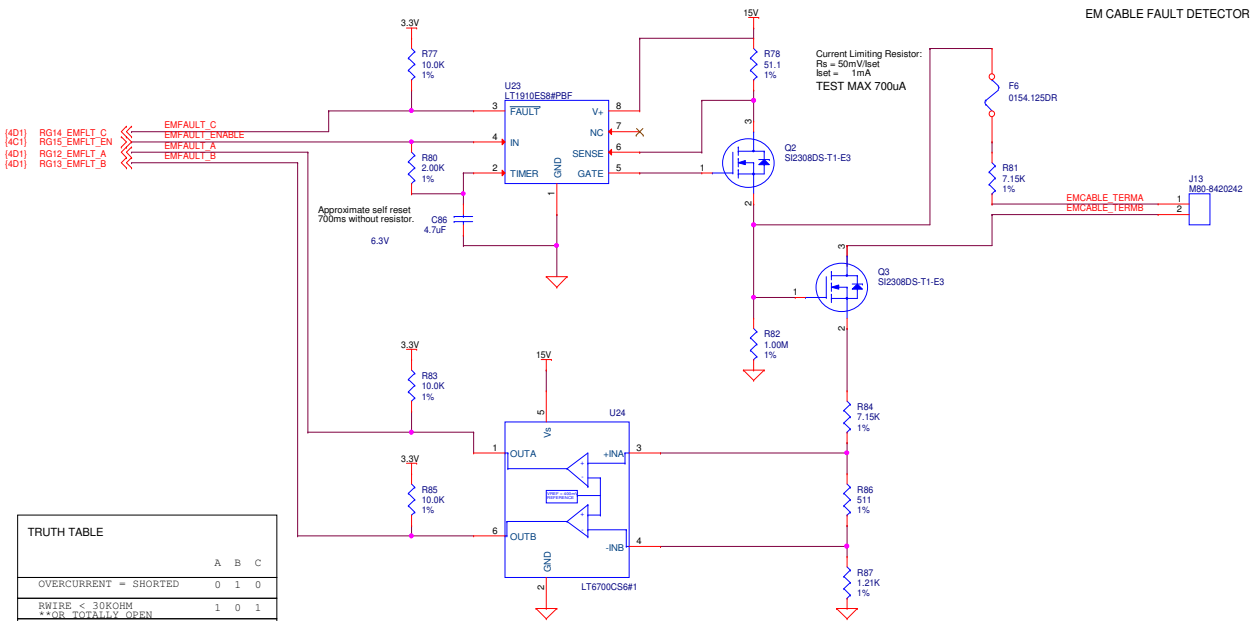
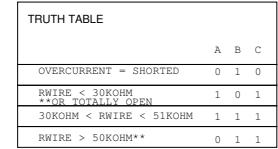
FROM LOAD CELL
4mA = 0 LBS
20mA = 10000 LBS
MAX SHUNT RES 365 OHM @ 15VIN

GAS SPRING CONFIG:
LASER RANGE FINDER MRL-ML1
OUTPUT 0-20mA 4-WIRE
SUPPLY 15-24VDC



FROM LASER RANGE FINDER
(PRECONFIGURED MAX 2.4m)
0 mA = 0 m
20mA = 2.4 m





		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039	
		Title Boost Controller Board - Digital I/O	
Engineer E. MARTIN	Size C	Document Number 10001160	Layout File
Layout <Layout>	Date: Monday, June 01, 2015	Sheet 6 of 6	Rev 0.2.0