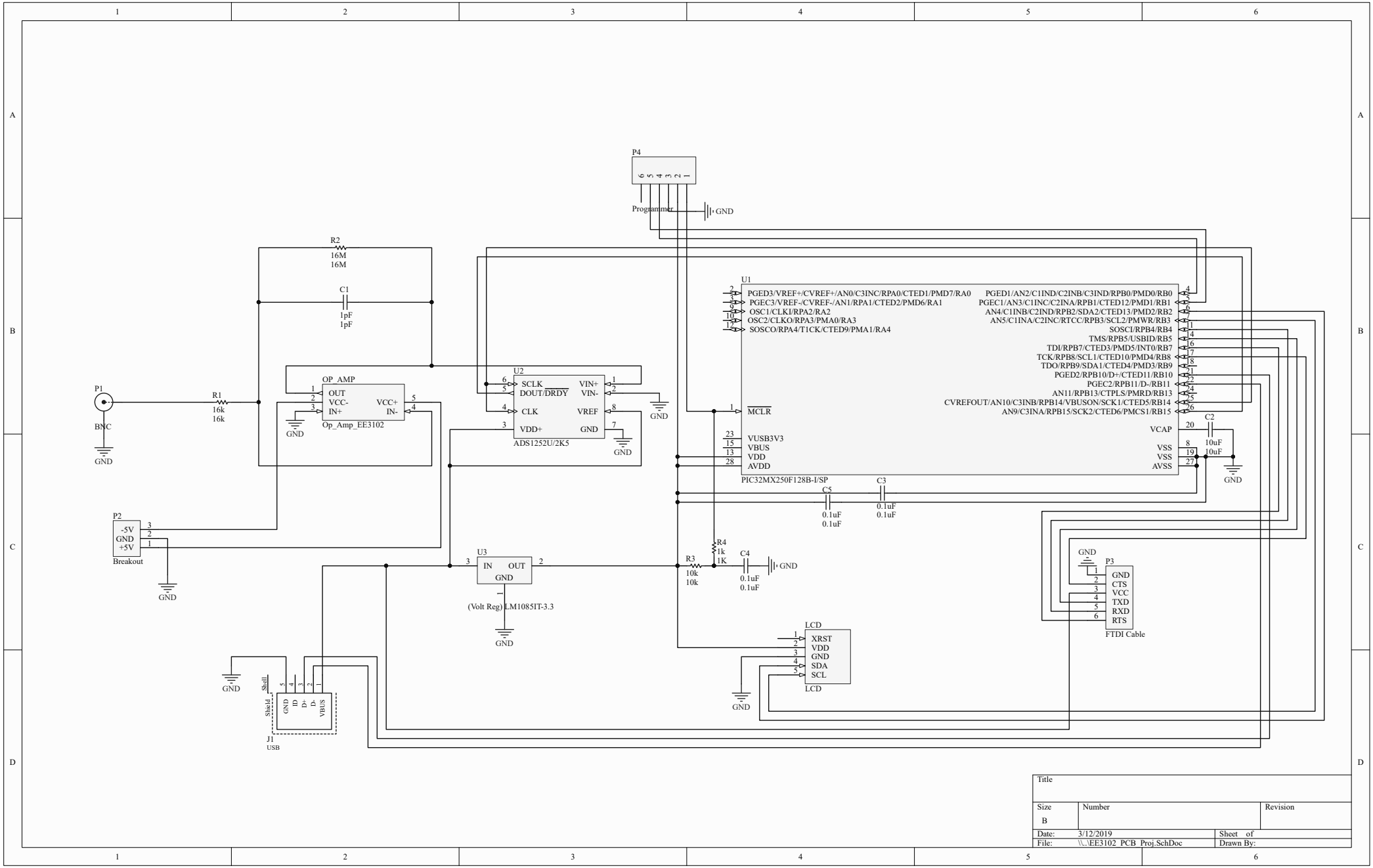
P4
Programmer
GND
R2
16M
16M
C1
1pF
1pF
U1
PGED3/VREF+/CVREF+/AN0/C3INC/RPA0/CTED1/PMD7/RA0
PGEC3/VREF-/CVREF-/AN1/RPA1/CTED2/PMD6/RA1
OSC1/CLKI/RPA2/RA2
OSC2/CLKO/RPA3/PMA0/RA3
SOSCO/RPA4/T1CK/CTED9/PMA1/RA4
PGED1/AN2/C1IND/C2INB/C3IND/RPB0/PMD0/RB0
PGEC1/AN3/C1INC/C2INA/RPB1/CTED12/PMD1/RB1
AN4/C1INB/C2IND/RPB2/SDA2/CTED13/PMD2/RB2
AN5/C1INA/C2INC/RTCC/RPB3/SCL2/PMWR/RB3
SOSCI/RPB4/RB4
TMS/RPB5/USBID/RB5
TDI/RPB7/CTED3/PMD5/INT0/RB7
TCK/RPB8/SCL1/CTED10/PMD4/RB8
TDO/RPB9/SDA1/CTED4/PMD3/RB9
PGED2/RPB10/D+/CTED11/RB10
PGEC2/RPB11/D-/RB11
AN11/RPB13/CTPLS/PMRD/RB13
CVREFOUT/AN10/C3INB/RPB14/VBUSON/SCK1/CTED5/RB14
AN9/C3INA/RPB15/SCK2/CTED6/PMCS1/RB15
MCLR
VUSB3V3
VBUS
VDD
AVDD
VCAP
VSS
VSS
AVSS
PIC32MX250F128B-I/SP
C2
10uF
10uF
C3
0.1uF
0.1uF
C5
0.1uF
0.1uF
P1
BNC
R1
16k
16k
OP_AMP
OUT
VCC-
IN+
VCC+
IN-
Op_Amp_EE3102
U2
SCLK
DOUT/DRDY
CLK
VDD+
VIN+
VIN-
VREF
GND
ADS1252U/2K5
P2
-5V
GND
+5V
Breakout
U3
IN
OUT
GND
(Volt Reg) LM1085IT-3.3
R3
10k
10k
R4
1k
1K
C4
0.1uF
0.1uF
P3
GND
CTS
VCC
TXD
RXD
RTS
FTDI Cable
LCD
XRST
VDD
GND
SDA
SCL
LCD
J1
USB
Shell
GND
ID
D+
D-
VBUS
Title
Size
B
Number
Revision
Date: 3/12/2019
Sheet of
File: \\..\EE3102_PCB_Proj.SchDoc
Drawn By: