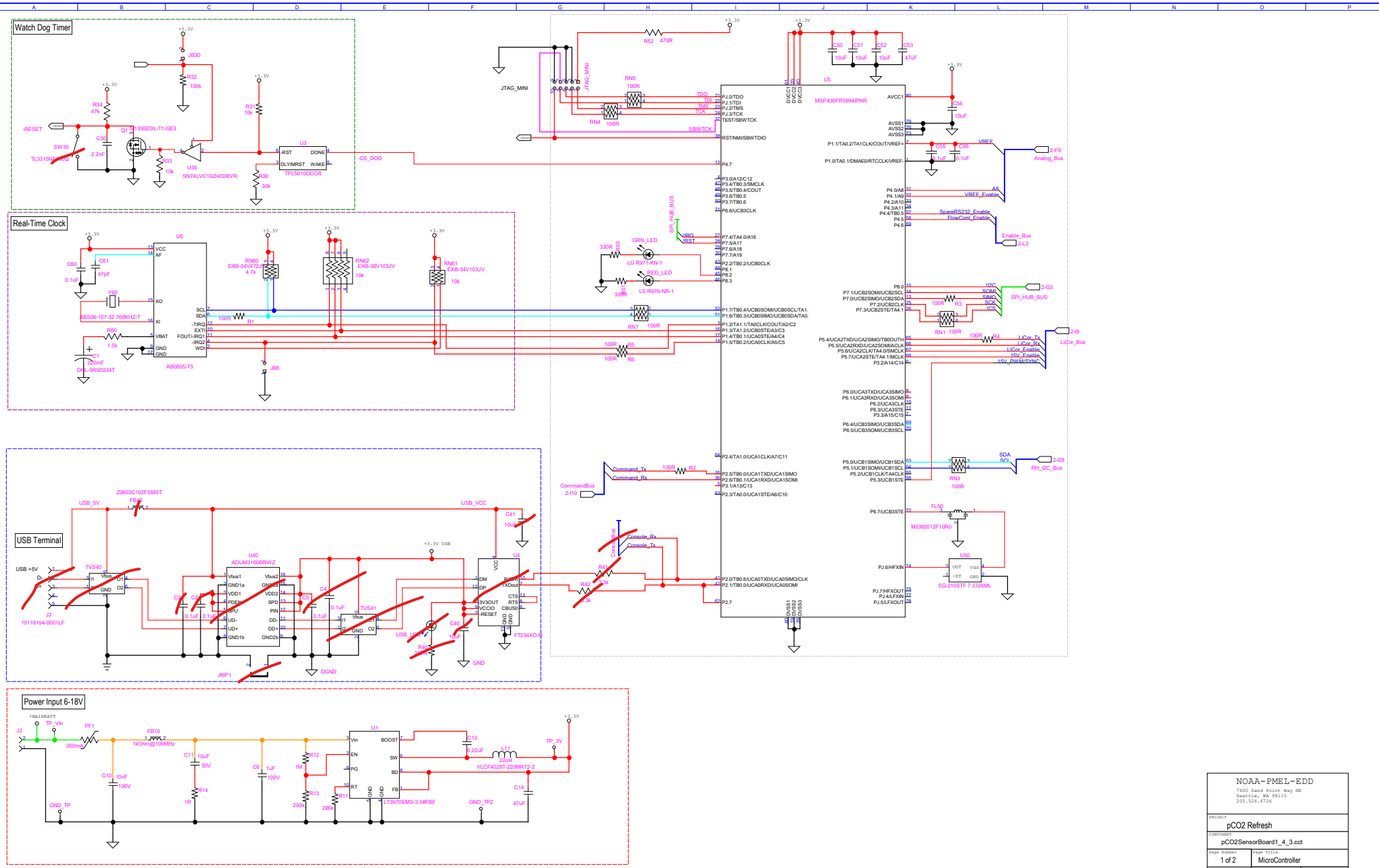
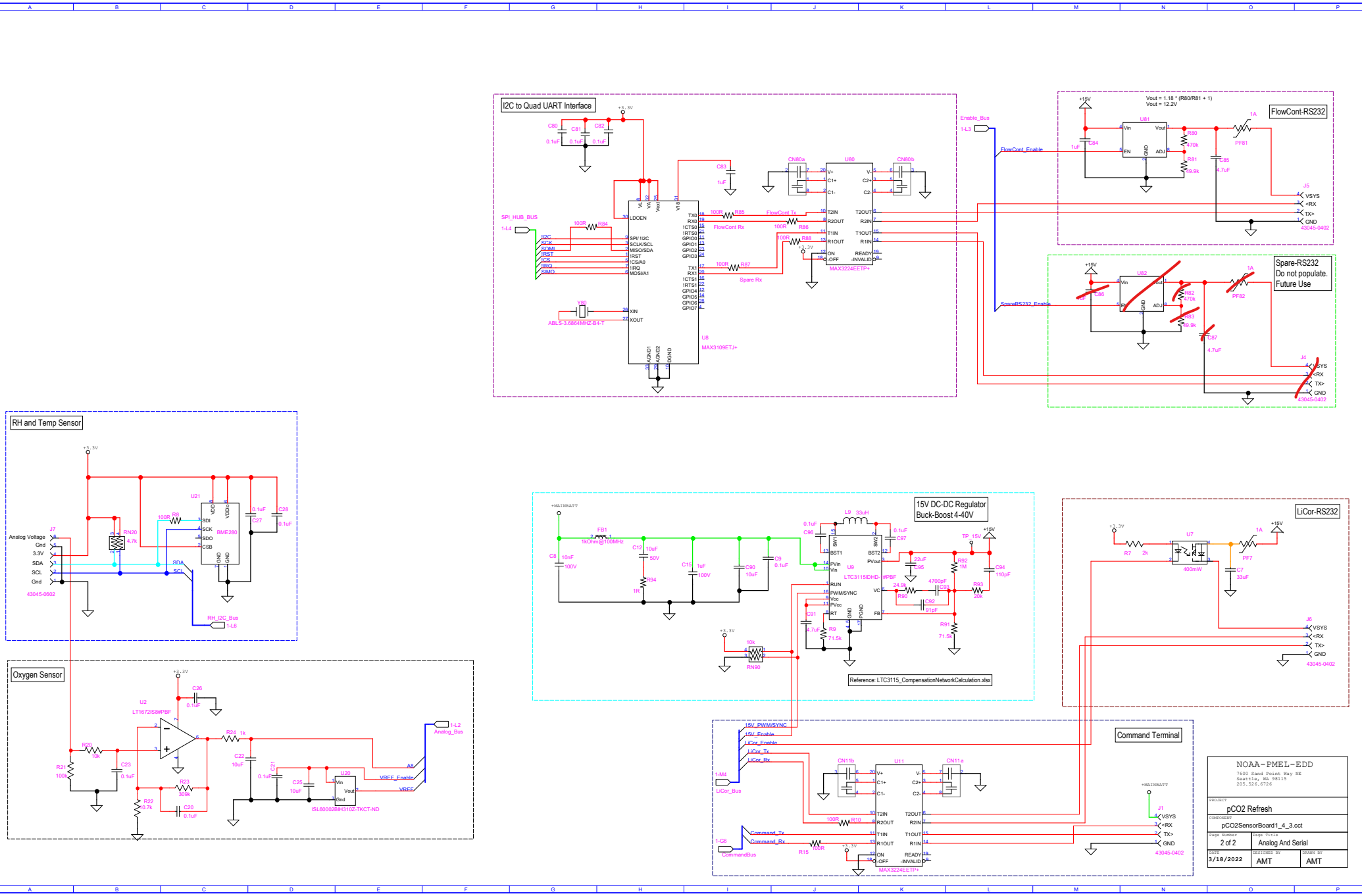

Watch Dog Timer
Real-Time Clock
USB Terminal
Power Input 6-18V
MSP430FR5994IPNR
U5
U3
TPL5010DDCR
U30
SN74LVC1G240DBVR
U6
AB0805-T3
U40
ADUM3160BRWZ
U4
FT234XD-R
U1
LT3970EMS-3.3#PBF
JTAG_MINI
CS_DOG
SPI_HUB_BUS
Analog_Bus
Enable_Bus
LiCor_Bus
RH_I2C_Bus
CommandBus
Console_Bus
USB_5V
USB_VCC
TP_3V
GND_TP
GND_TP2
DGND
NOAA-PMEL-EDD
7600 Sand Point Way NE
Seattle, WA 98115
205.526.6726
PROJECT
pCO2 Refresh
COMPONENT
pCO2SensorBoard1_4_3.cct
Page Number
1 of 2
Page Title
MicroController
DATE
3/18/2022
DESIGNED BY
AMT
DRAWN BY
AMT


I2C to Quad UART Interface
U8
MAX3109ETJ+
U80
MAX3224EETP+
FlowCont-RS232
Vout = 1.18 * (R80/R81 + 1)
Vout = 12.2V
U81
J5
43045-0402
Spare-RS232
Do not populate.
Future Use
U82
J4
43045-0402
Enable_Bus
FlowCont_Enable
SpareRS232_Enable
SPI_HUB_BUS
FlowCont Rx
Spare Rx
RH and Temp Sensor
U21
BME280
J7
43045-0602
RH_I2C_Bus
Oxygen Sensor
U2
LT1672IS8#PBF
U20
ISL60002BIH310Z-TKCT-ND
Analog_Bus
15V DC-DC Regulator
Buck-Boost 4-40V
U9
LTC3115IDHD-#PBF
Reference: LTC3115_CompensationNetworkCalculation.xlsx
LiCor-RS232
U7
J6
43045-0402
Command Terminal
U11
MAX3224EETP+
CommandBus
LiCor_Bus
J1
43045-0402
NOAA-PMEL-EDD
7600 Sand Point Way NE
Seattle, WA 98115
205.526.6726
PROJECT
pCO2 Refresh
COMPONENT
pCO2SensorBoard1_4_3.cct
Page Number
2 of 2
Page Title
Analog And Serial
DATE
3/18/2022
DESIGNED BY
AMT
DRAWN BY
AMT