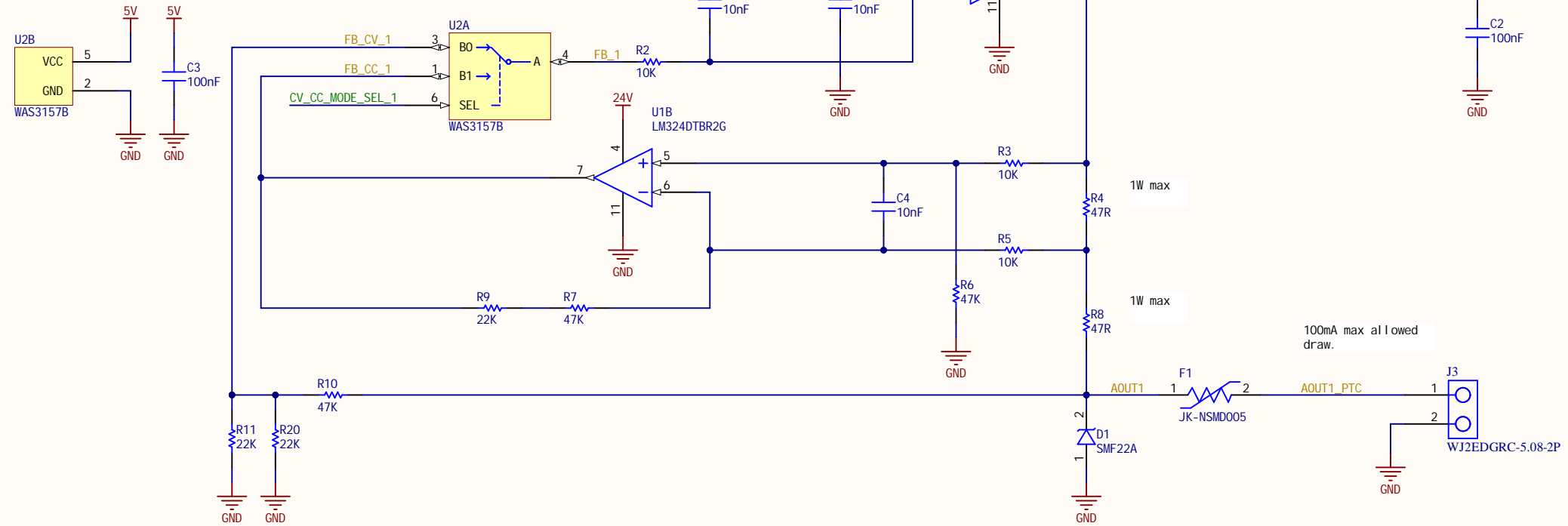
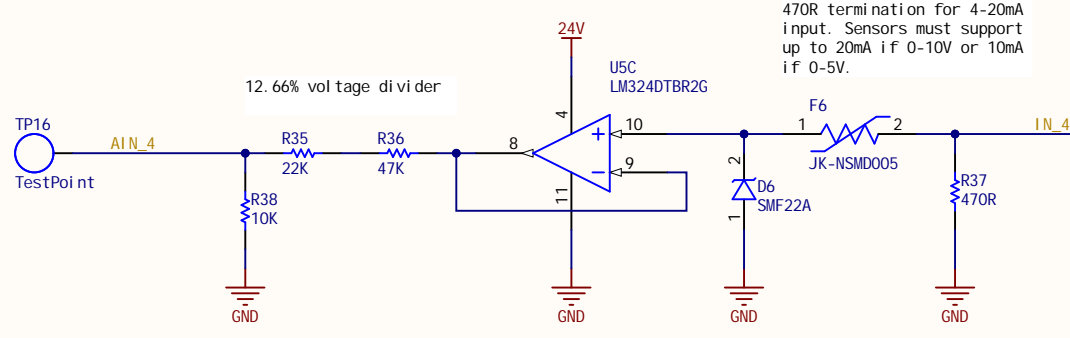
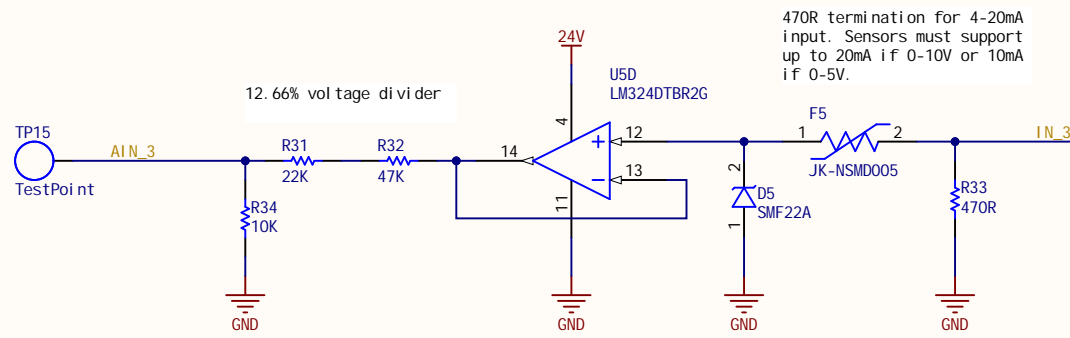
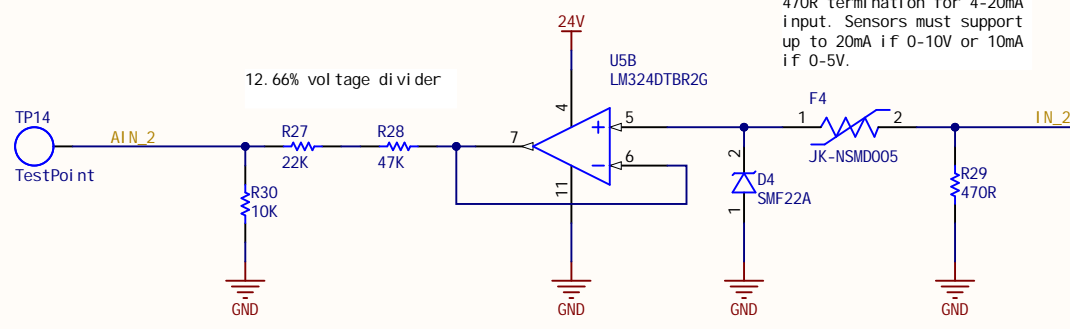
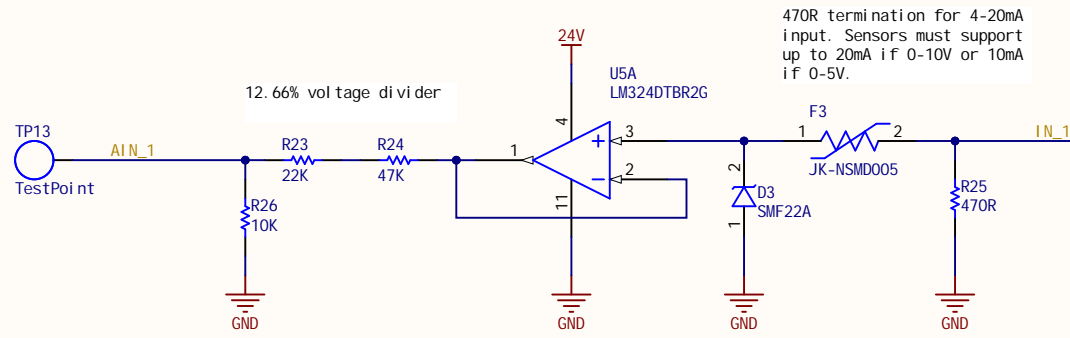
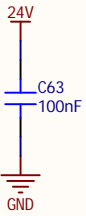
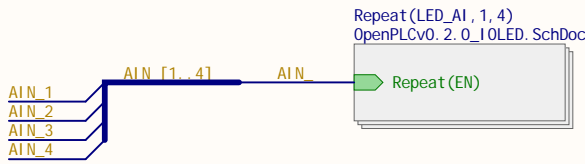
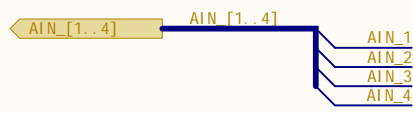


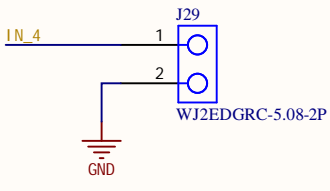
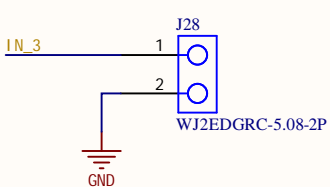
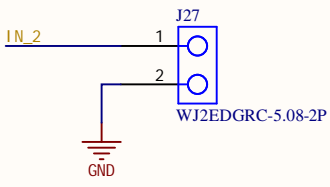
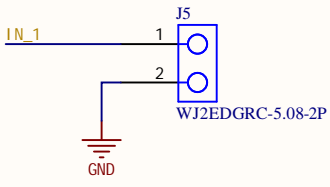
CV / CC Drivers



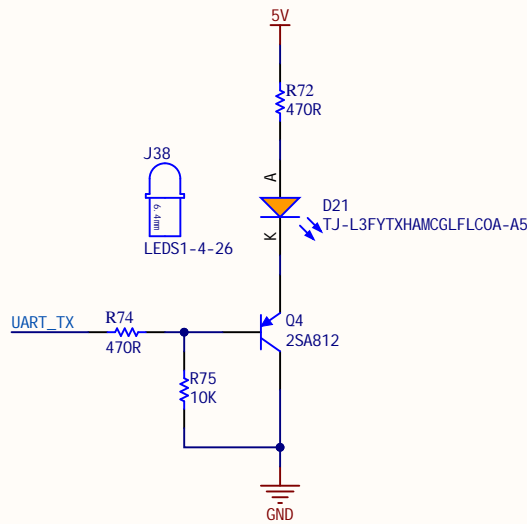
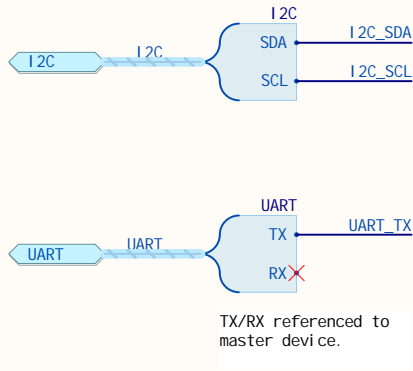
Buffers and Dividers



Connectors

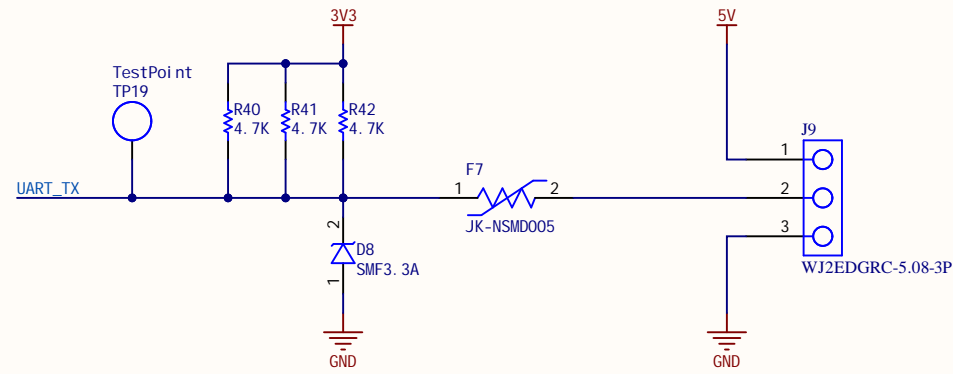


TITLE	Analogue Input	AUTHOR	Callum Nunes-Vaz			
PROJECT	Open PLC	REV	SIZE	DATE	XX/XX/XXXX	
FILE NAME	OpenPLCv0.2.0_AnalogueInput.SchDoc	REV	A3	SHEET	5	OF 22

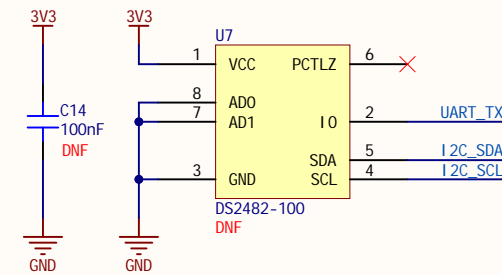


1Wire via UART (preferred)

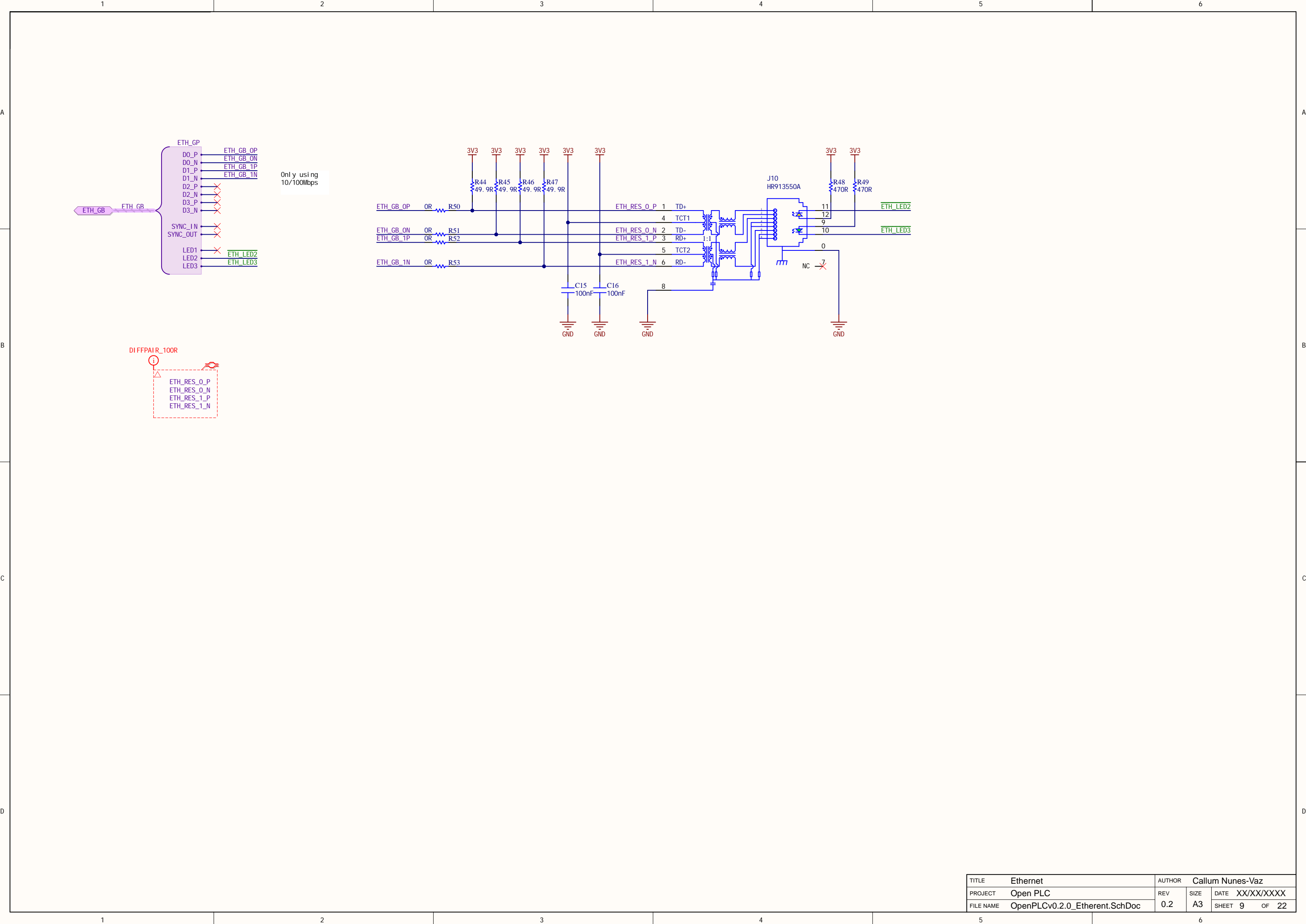
<https://www.maximintegrated.com/en/design/technical-documents/tutorials/2/214.html>



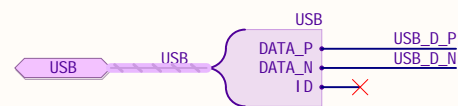
1Wire via Adapter (expensive)



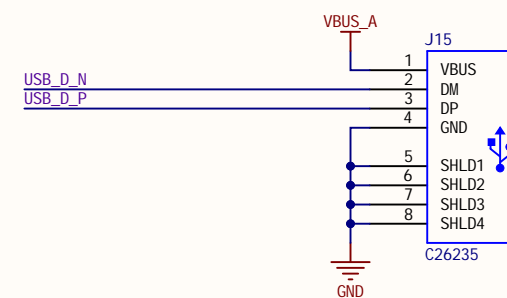
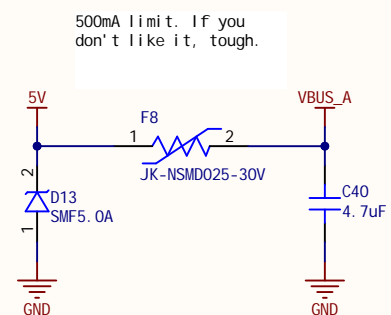
TITLE1-Wire Interface		AUTHORCallum Nunes-Vaz	
PROJECTOpen PLC	REV0.2	SIZEA3	DATEXX/XX/XXXX
FILE NAMEOpenPLCv0.2.0_1Wire.SchDoc		SHEET8	OF22



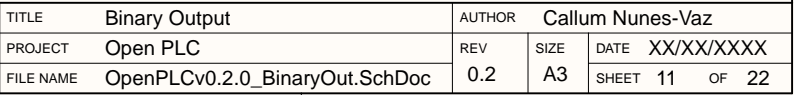
TITLE Ethernet		AUTHOR Callum Nunes-Vaz	
PROJECT Open PLC	REV 0.2	SIZE A3	DATE XX/XX/XXXX
FILE NAME OpenPLCv0.2.0_Etherent.SchDoc		SHEET 9	OF 22



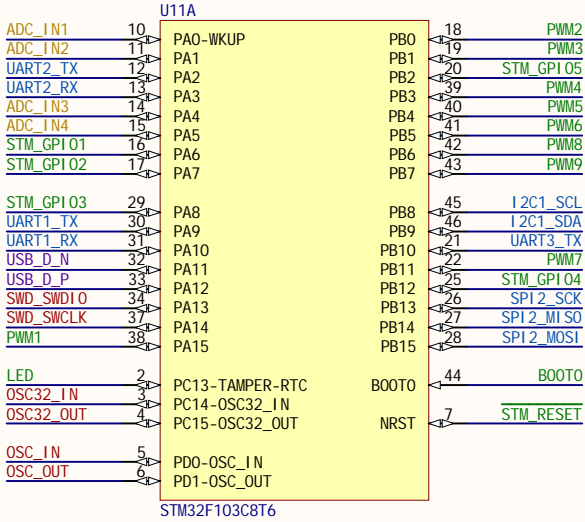
Compute module
datasheet recommends ID
go to GND even if fixed
master.



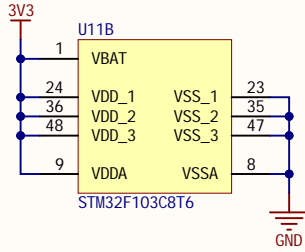
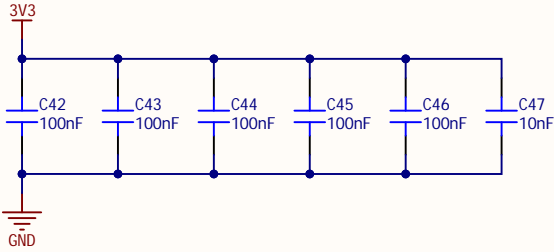
TITLE	USB Type-A	AUTHOR Callum Nunes-Vaz			
PROJECT	Open PLC	REV	SIZE	DATE	XX/XX/XXXX
FILE NAME	OpenPLCv0.2.0_USBPortTypeA.SchDoc	0.2	A3	SHEET 10	OF 22



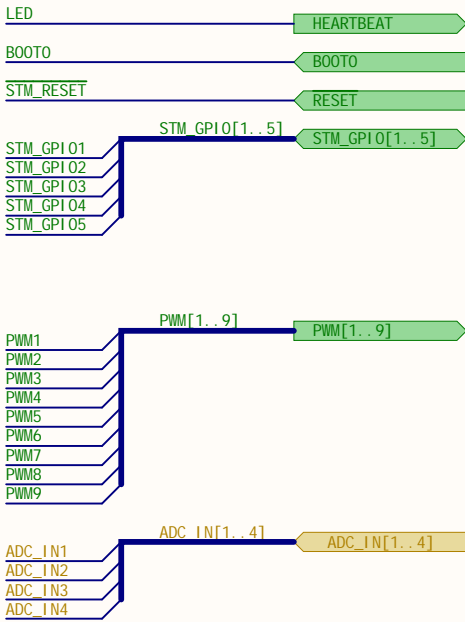
Control l er



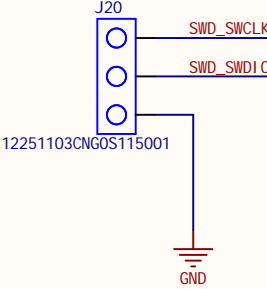
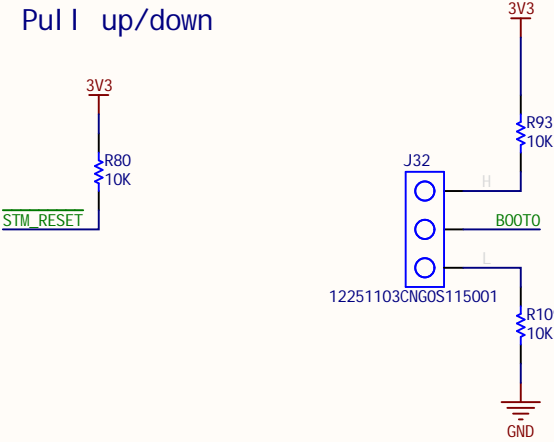
Decoupl ing



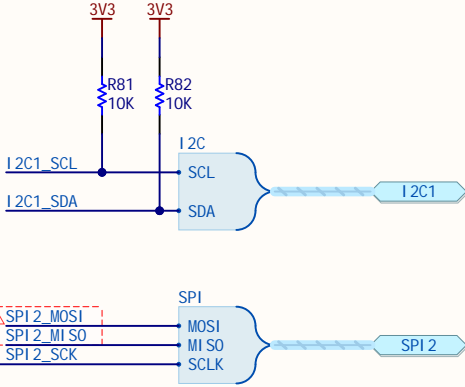
GPI O



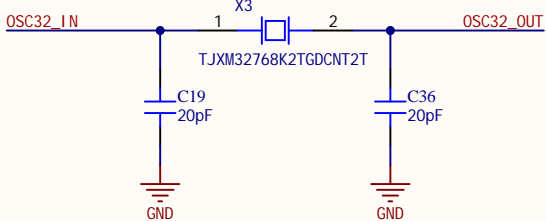
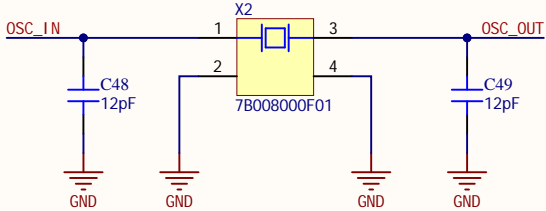
Pul l up/down



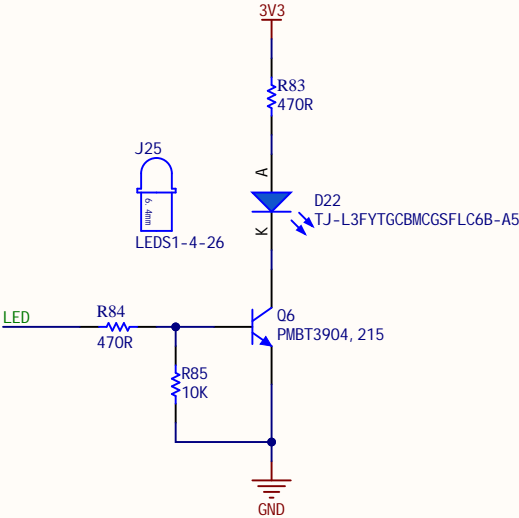
Comms Harnesses



Crystal s

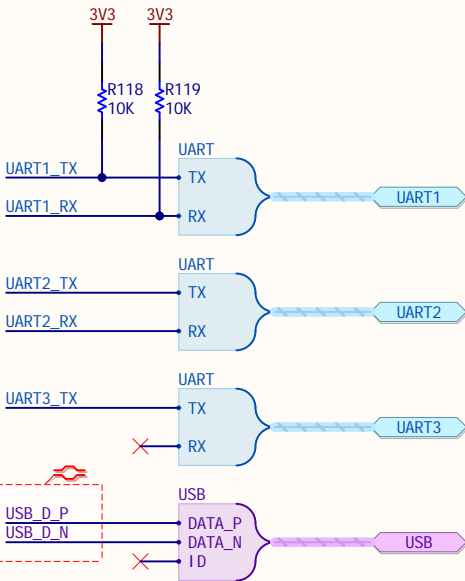
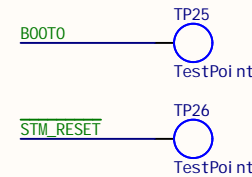


Heartbeat and Status LED

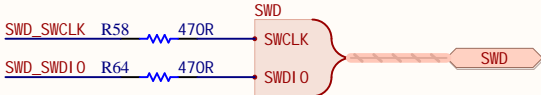


Compatible with default LED for STM32 blue-pill board configuration.

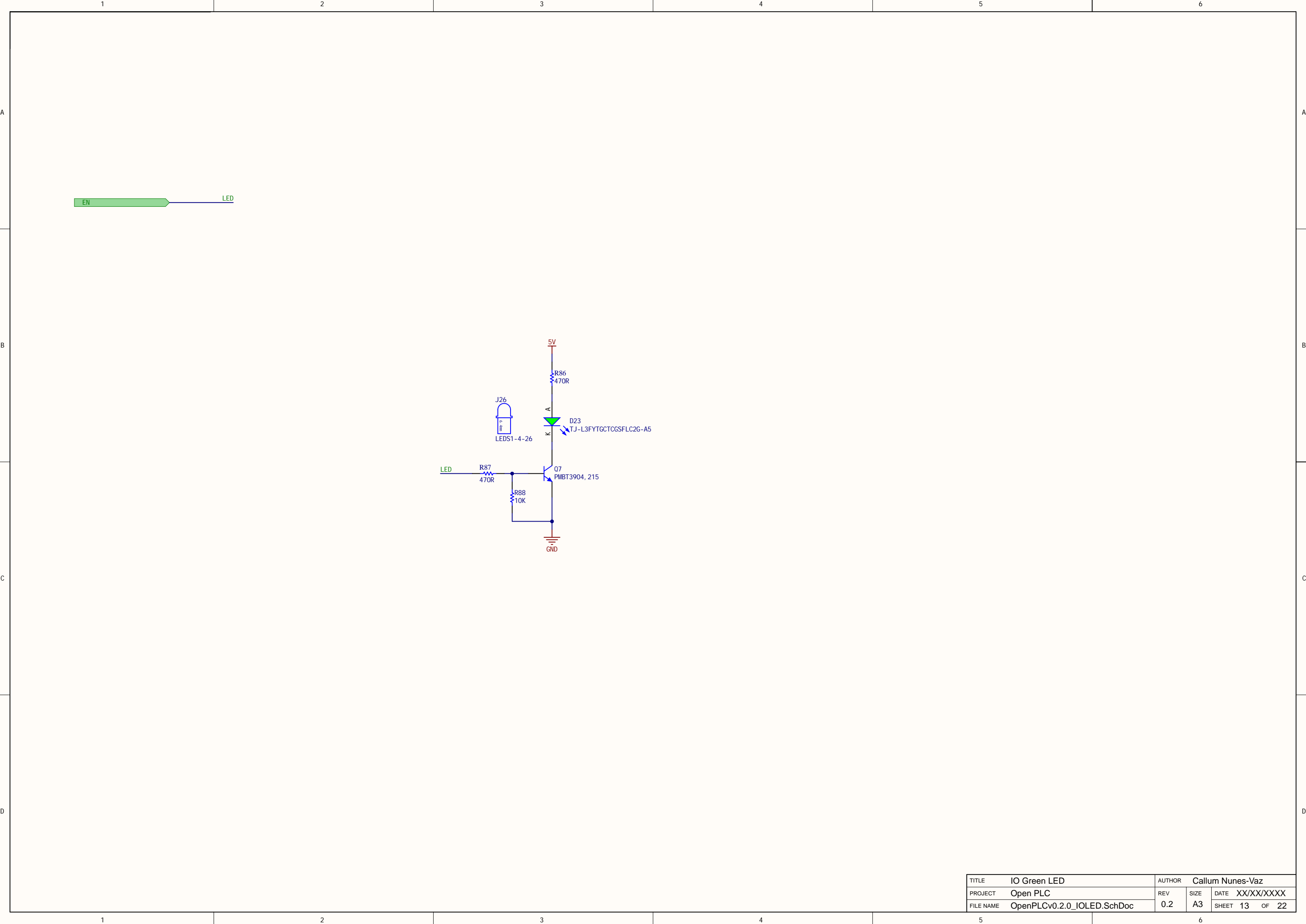
Test points



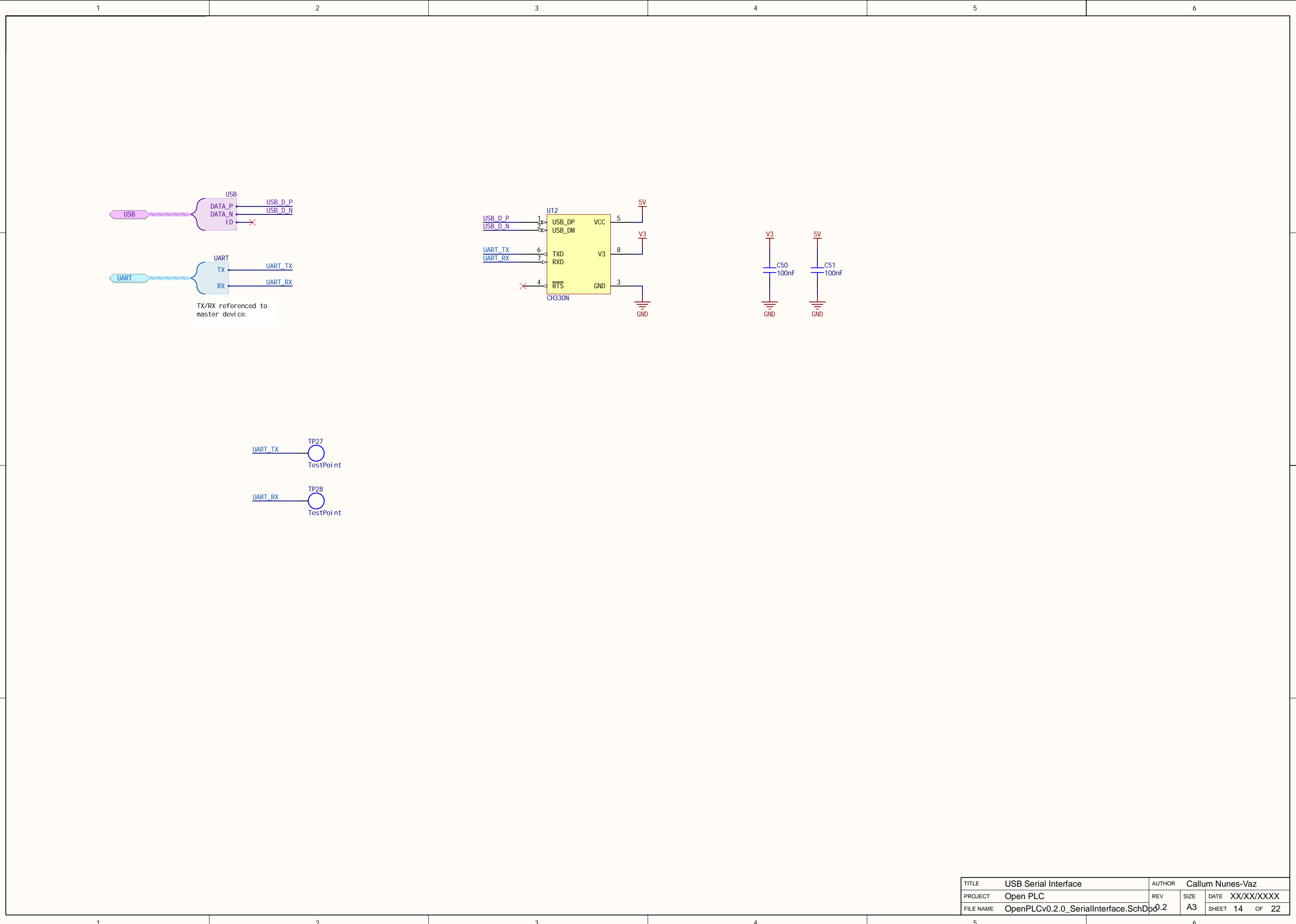
Debug

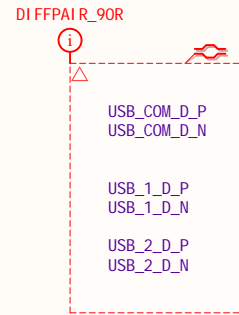
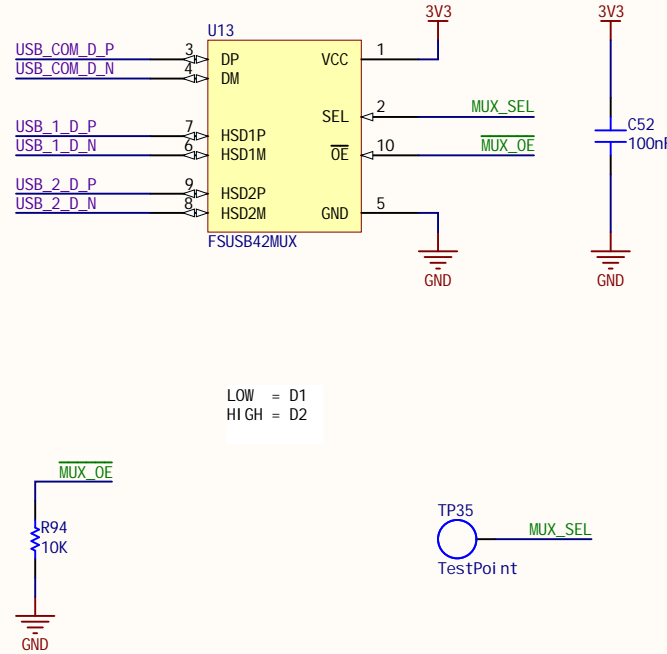
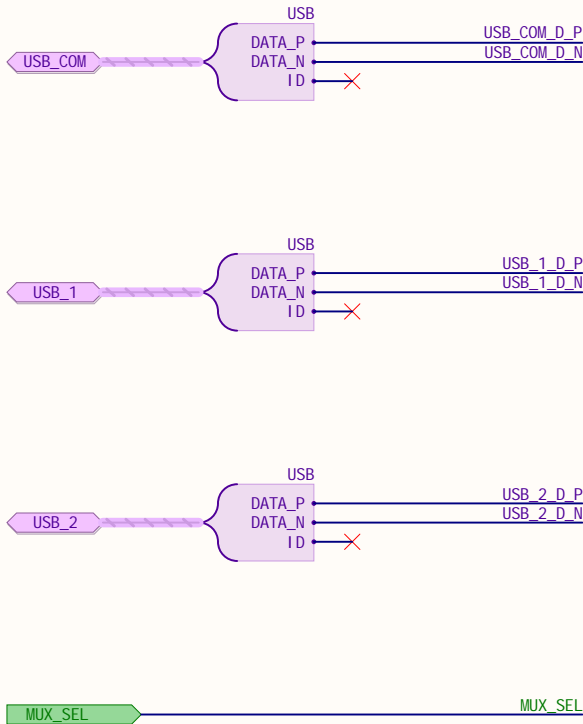


TITLE	IO Controller	AUTHOR	Callum Nunes-Vaz			
PROJECT	Open PLC	REV	0.2	SIZE	A3	DATE XX/XX/XXXX
FILE NAME	OpenPLCv0.2.0_IOController.SchDoc			SHEET	12	OF 22

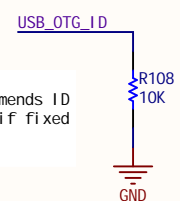
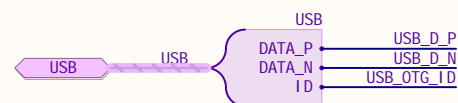


TITLE	IO Green LED			AUTHOR Callum Nunes-Vaz		
PROJECT	Open PLC			REV	SIZE	DATE XX/XX/XXXX
FILE NAME	OpenPLCv0.2.0_IOLED.SchDoc			0.2	A3	SHEET 13 OF 22

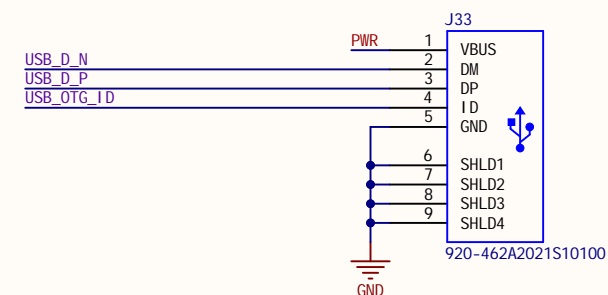
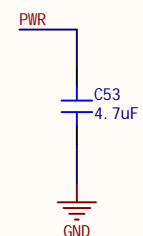




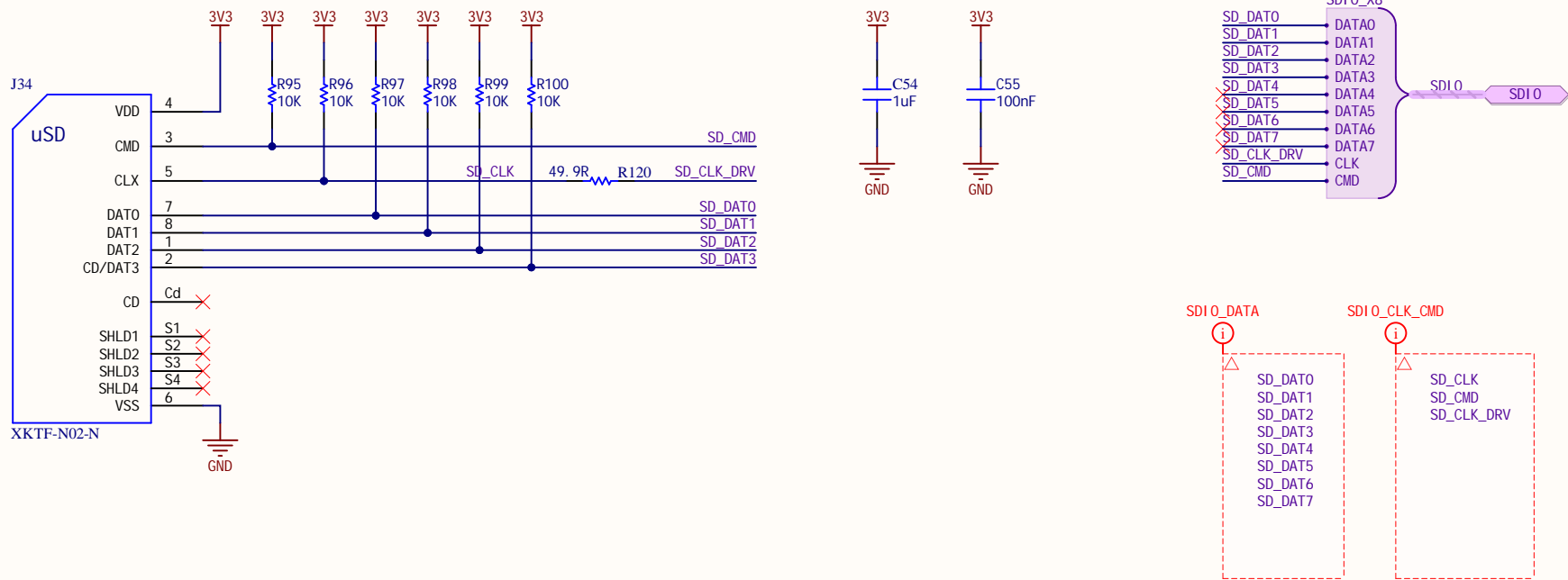
TITLE		USB Mux		AUTHOR		Callum Nunes-Vaz	
PROJECT		Open PLC		REV	SIZE	DATE	XX/XX/XXXX
FILE NAME		OpenPLCv0.2.0_USBSwitch.SchDoc		0.2	A3	SHEET	15 OF 22



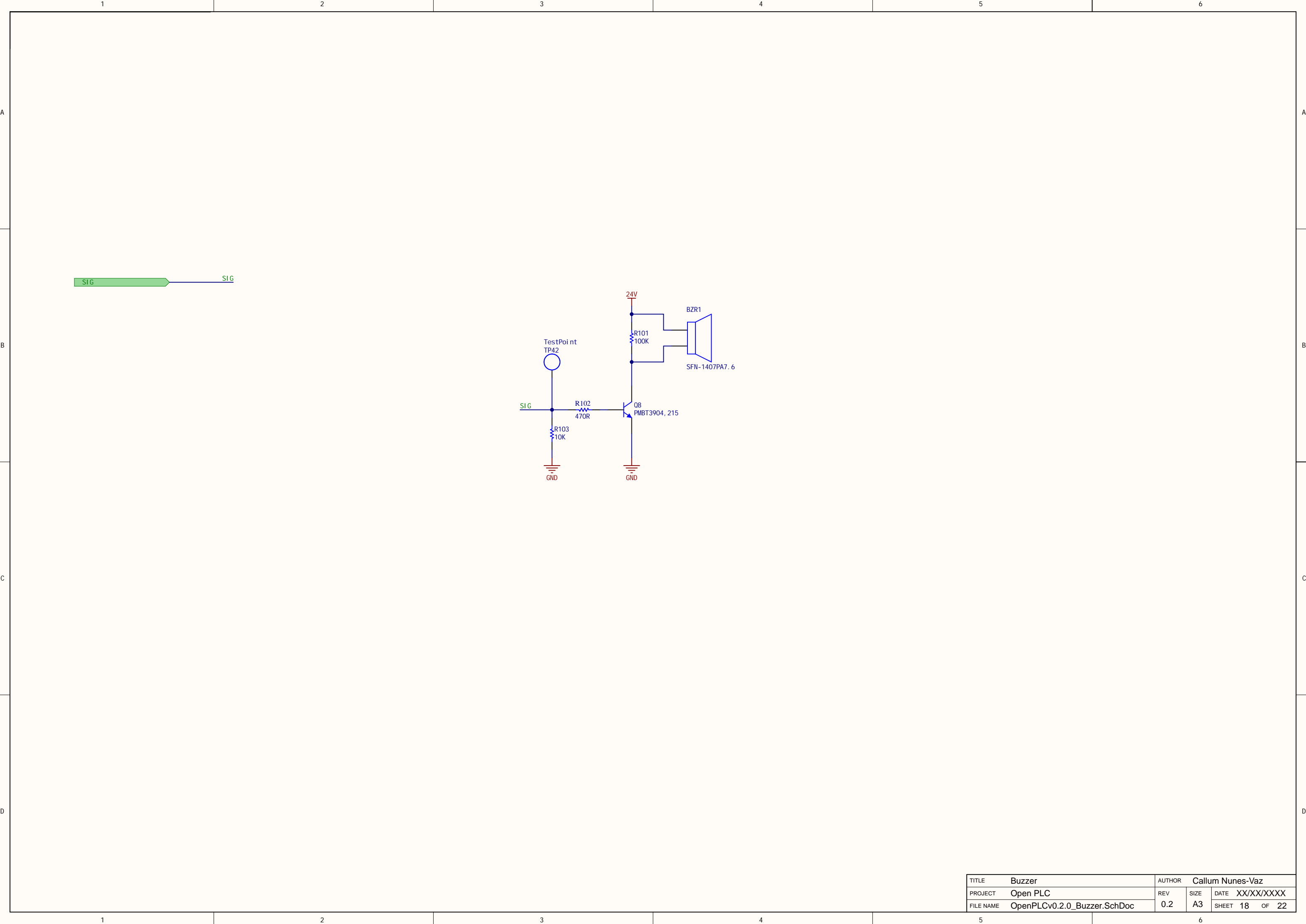
Compute module
datasheet recommends ID
go to GND even if fixed
master.



TITLE	USB Type-B	AUTHOR Callum Nunes-Vaz			
PROJECT	Open PLC	REV	SIZE	DATE	XX/XX/XXXX
FILE NAME	OpenPLCv0.2.0_USBPortTypeB.SchDoc	0.2	A3	SHEET 16	OF 22



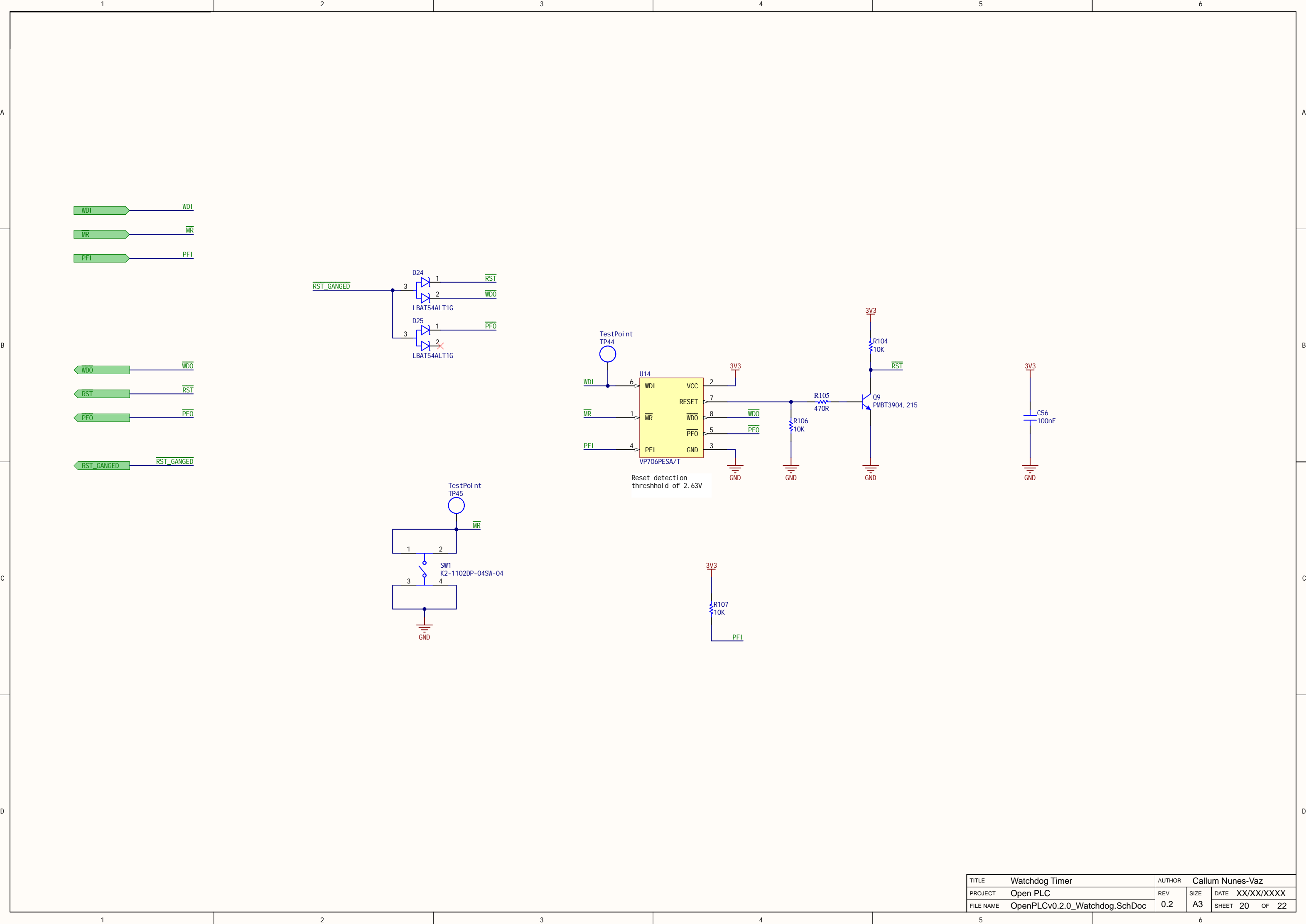
TITLE		SD Card Slot		AUTHOR		Callum Nunes-Vaz	
PROJECT		Open PLC		REV	SIZE	DATE	XX/XX/XXXX
FILE NAME		OpenPLCv0.2.0_SDCard.SchDoc		0.2	A3	SHEET	17 OF 22



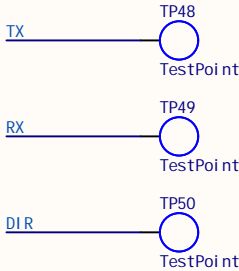
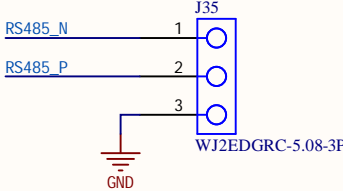
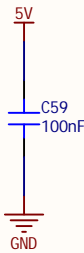
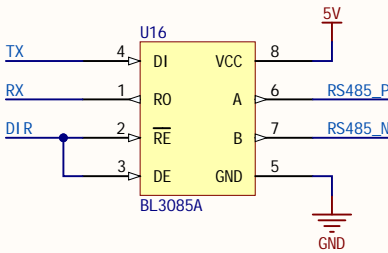
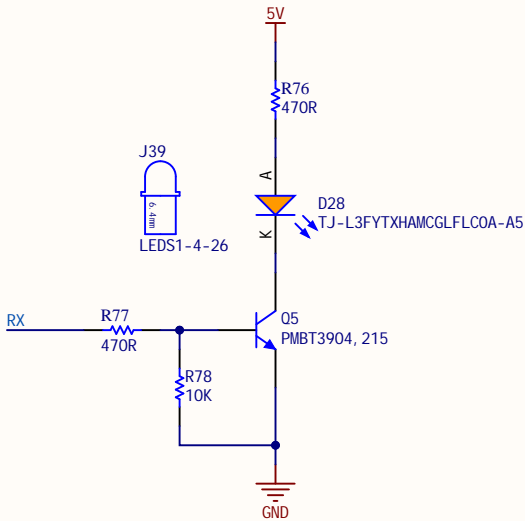
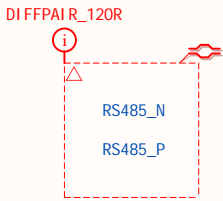
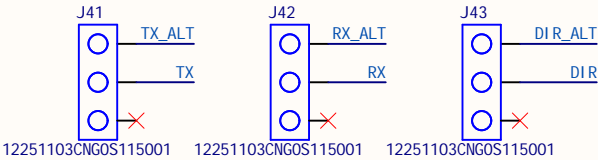
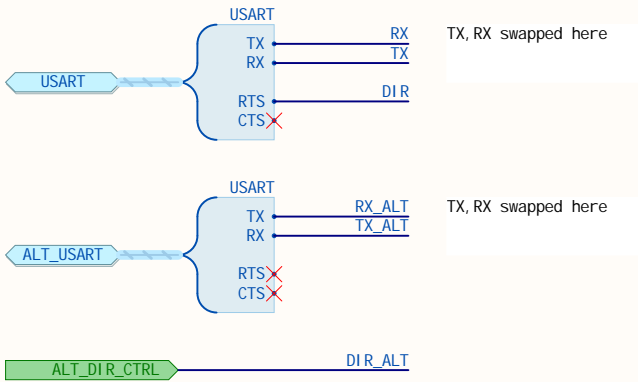
TITLE	Buzzer	AUTHOR	Callum Nunes-Vaz			
PROJECT	Open PLC	REV	SIZE	DATE	XX/XX/XXXX	
FILE NAME	OpenPLCv0.2.0_Buzzer.SchDoc	0.2	A3	SHEET	18	OF 22



TITLE		Expansion Headers		AUTHOR		Callum Nunes-Vaz	
PROJECT		Open PLC		REV		SIZE	
FILE NAME		OpenPLCv0.2.0_ExpansionHeader.SchDoc		DATE		XX/XX/XXXX	
				SHEET		19 OF 22	



Optional alternate mapping



TITLE	RS485 Transceiver	AUTHOR	Callum Nunes-Vaz		
PROJECT	Open PLC	REV	SIZE	DATE	XX/XX/XXXX
FILE NAME	OpenPLCv0.2.0_RS485.SchDoc	0.2	A3	SHEET	21 OF 22

