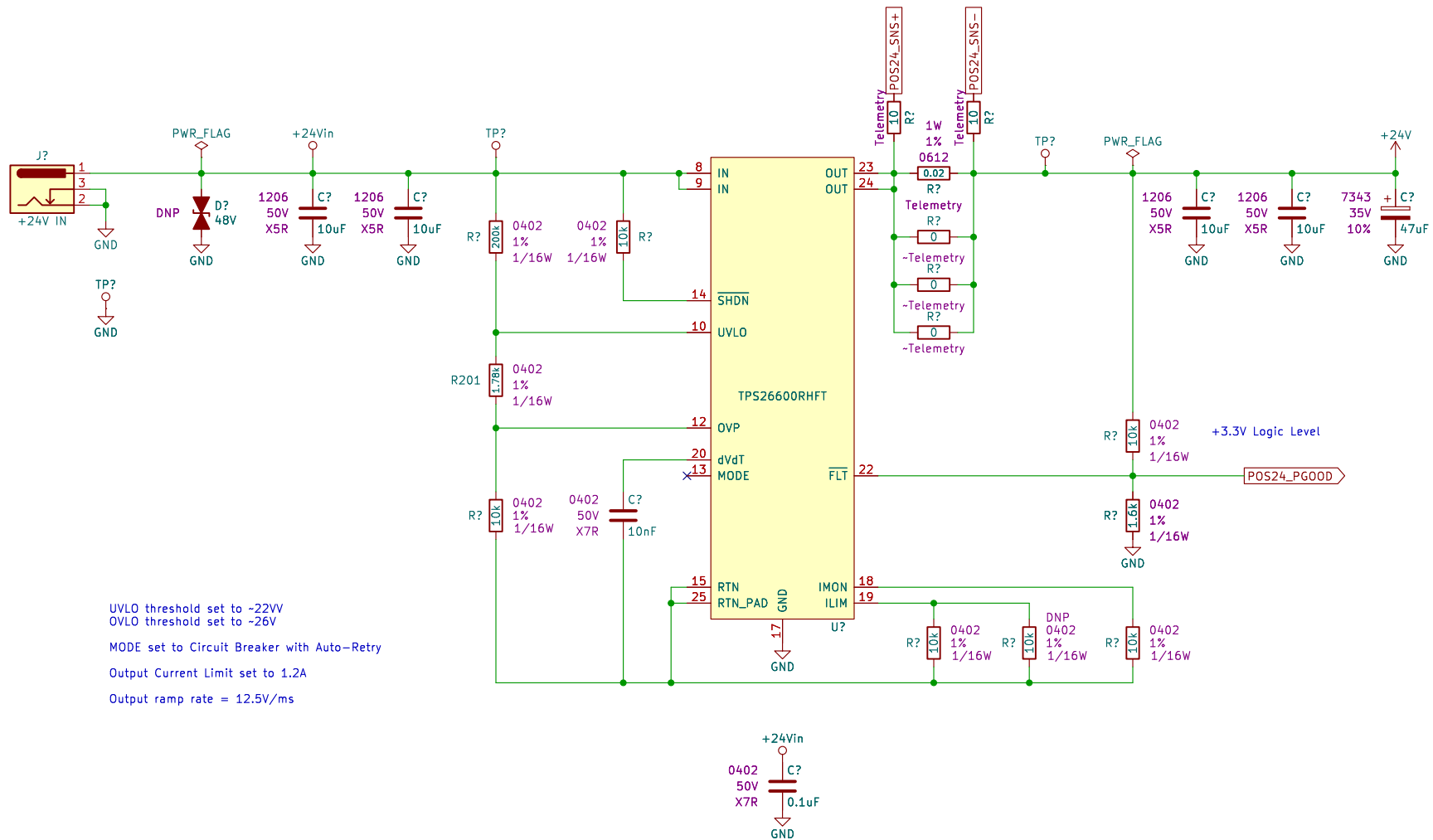


	1	2	3	4	5	
A	<div>Power Input</div> <div></div> <div>File: power_input.kicad_sch</div> <div>Power Input Telemetry</div> <div></div> <div>File: power_input_telemetry.kicad_sch</div> <div>+3.3V Power Supply</div> <div></div> <div>File: pos3p3_power_supply.kicad_sch</div> <div>+3.3V Telemetry</div> <div></div> <div>File: pos3p3_telemetry.kicad_sch</div> <div>+180V Power Supply</div> <div></div> <div>File: pos180_power_supply.kicad_sch</div> <div>+180V Telemetry</div> <div></div> <div>File: pos180_telemetry.kicad_sch</div> <div>PIC32MZ Programming</div> <div></div> <div>File: pis32mz_programming.kicad_sch</div> <div>PIC32MZ Bypass</div> <div></div> <div>File: PIC32MZ_Bypass.kicad_sch</div> <div>PIC32MZ</div> <div></div> <div>File: PIC32MZ.kicad_sch</div> <div>PIC32MZ Clocking</div> <div></div> <div>File: PIC32MZ_Clocking.kicad_sch</div> <div>Backup RTC</div> <div></div> <div>File: Backup_RTC.kicad_sch</div> <div>USB UART Bridge</div> <div></div> <div>File: USB_UART_Bridge.kicad_sch</div> <div>Platform ETC</div> <div></div> <div>File: Platform_ETC.kicad_sch</div> <div>PGOOD LEDs</div> <div></div> <div>File: PGOOD_LEDs.kicad_sch</div> <div>Status LEDs</div> <div></div> <div>File: Status_LEDs.kicad_sch</div>	<div>IO Buffers 1</div> <div></div> <div>File: IO_Buffers_1.kicad_sch</div> <div>IO Buffers 2</div> <div></div> <div>File: IO_Buffers_2.kicad_sch</div> <div>IO Connectors</div> <div></div> <div>File: IO_Connectors.kicad_sch</div> <div>Misc Circuits</div> <div></div> <div>File: Misc_Circuits.kicad_sch</div> <div>Mechanical</div> <div></div> <div>File: Mechanical.kicad_sch</div>				
B						
C						
D				<div>Drew Maatman</div> <div>Sheet: /</div> <div>File: Nixie_Clock_Core.kicad_sch</div> <div>Title:</div> <div>Size: A</div> <div>Date: 2023-05-12</div> <div>Rev: PRELIM</div> <div>KiCad E.D.A. kicad 7.0.1</div> <div>Id: 1/21</div>		
	1	2	3	4	5	



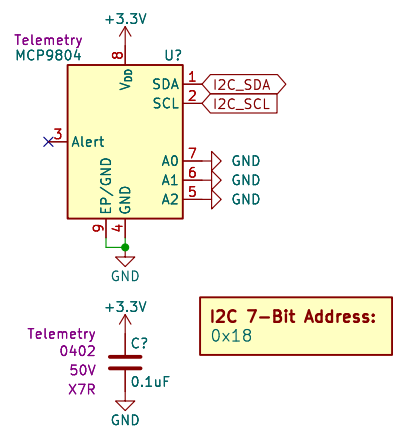
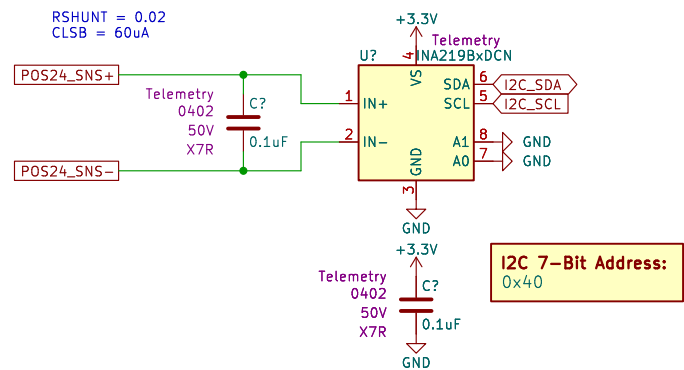
Drew Maatman

Sheet: /Power Input/
 File: power_input.kicad_sch

Title:

Size: A Date: 2023-05-12
 KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
 Id: 2/21



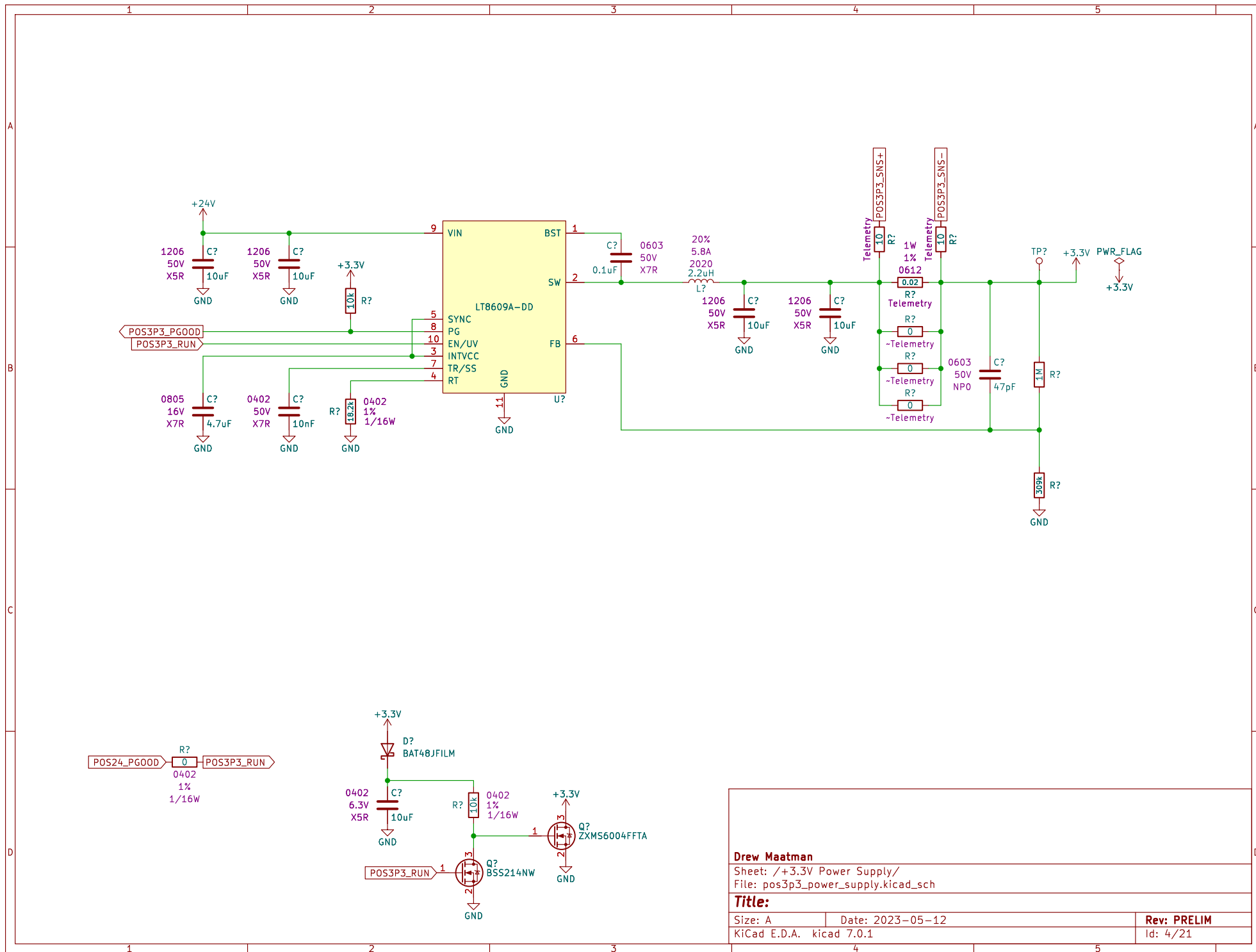
Drew Maatman

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File: power_input_telemetry.kicad_sch

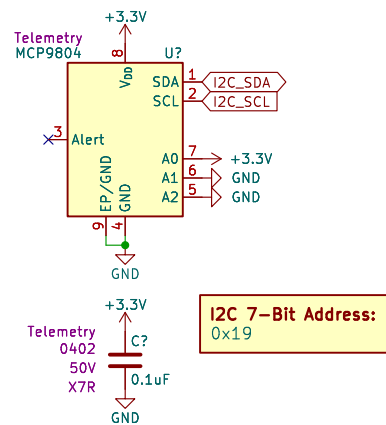
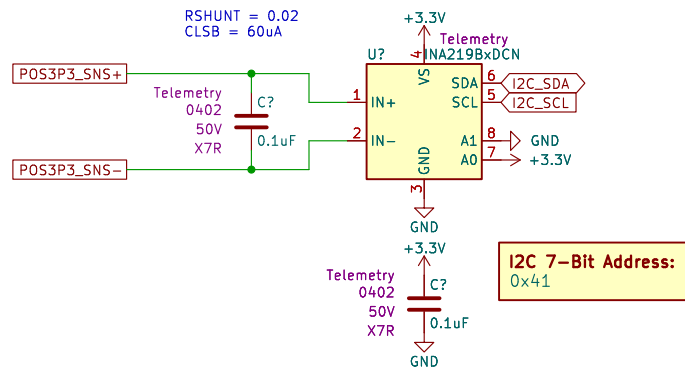
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Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 3/21



Drew Maatman		
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File: pos3p3_power_supply.kicad_sch		
Title:		
Size: A	Date: 2023-05-12	Rev: PRELIM
KiCad E.D.A. kicad 7.0.1		Id: 4/21



Drew Maatman

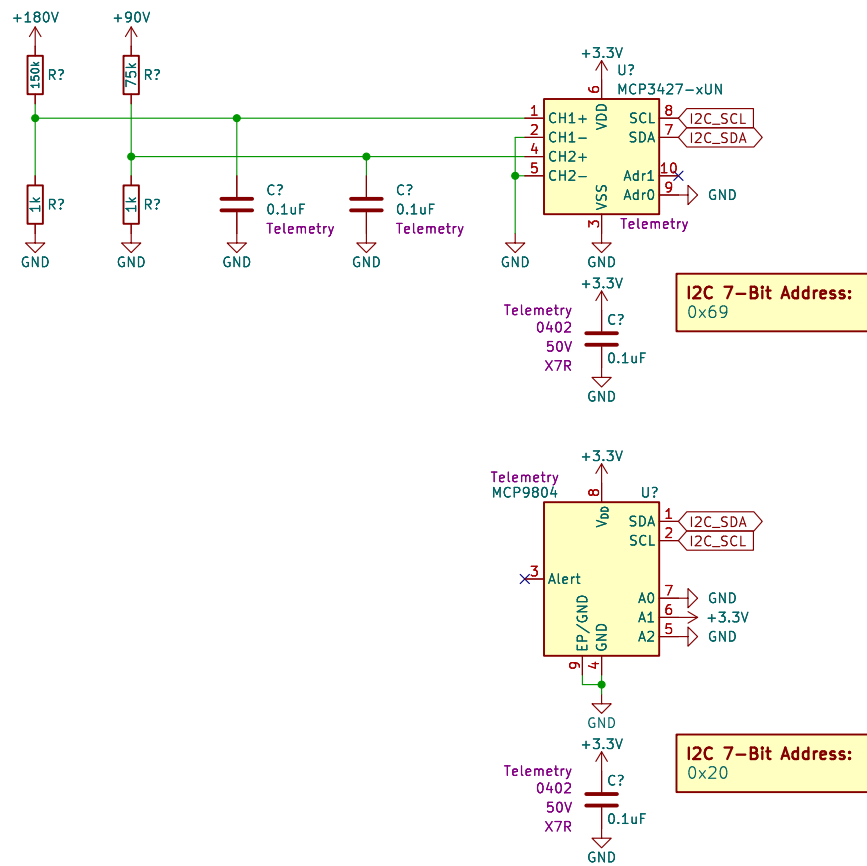
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Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 5/21

USE THIS TO MONITOR +180V AND +90V



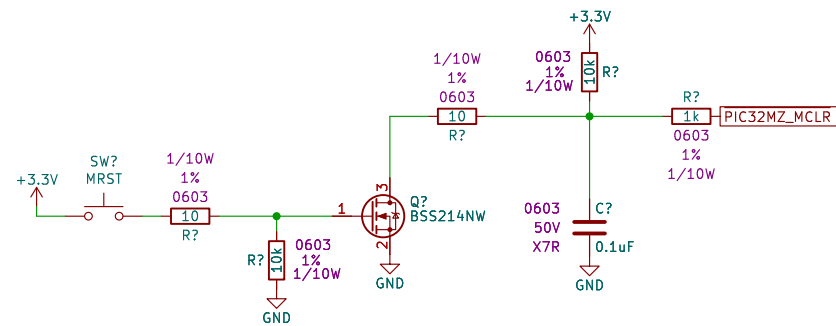
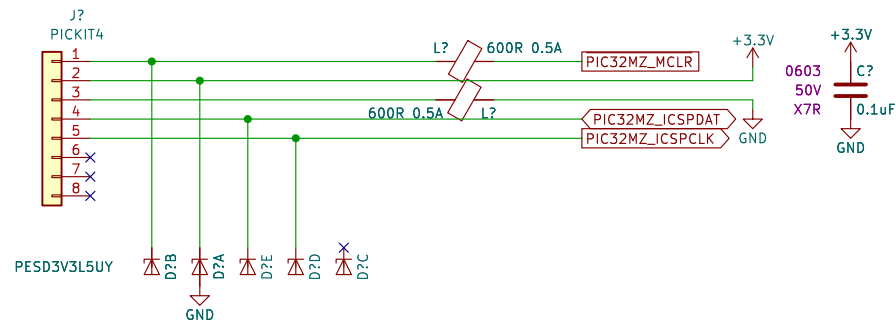
Drew Maatman

Sheet: /+180V Telemetry/
File: pos180_telemetry.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 7/21



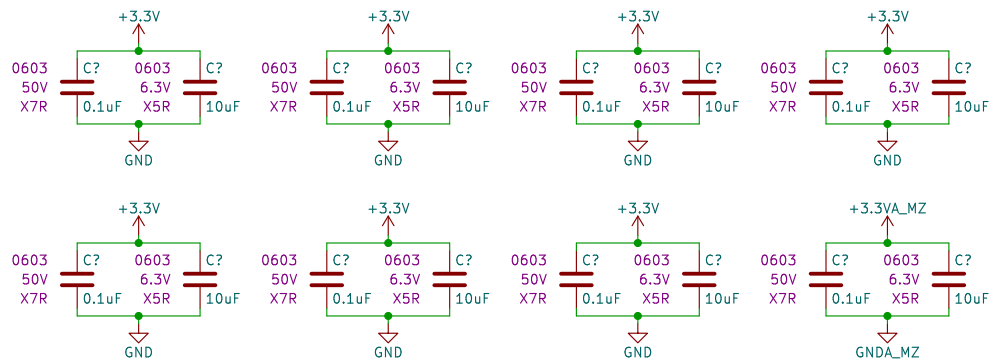
Drew Maatman

Sheet: /PIC32MZ Programming/
File: pis32mz_programming.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 8/21



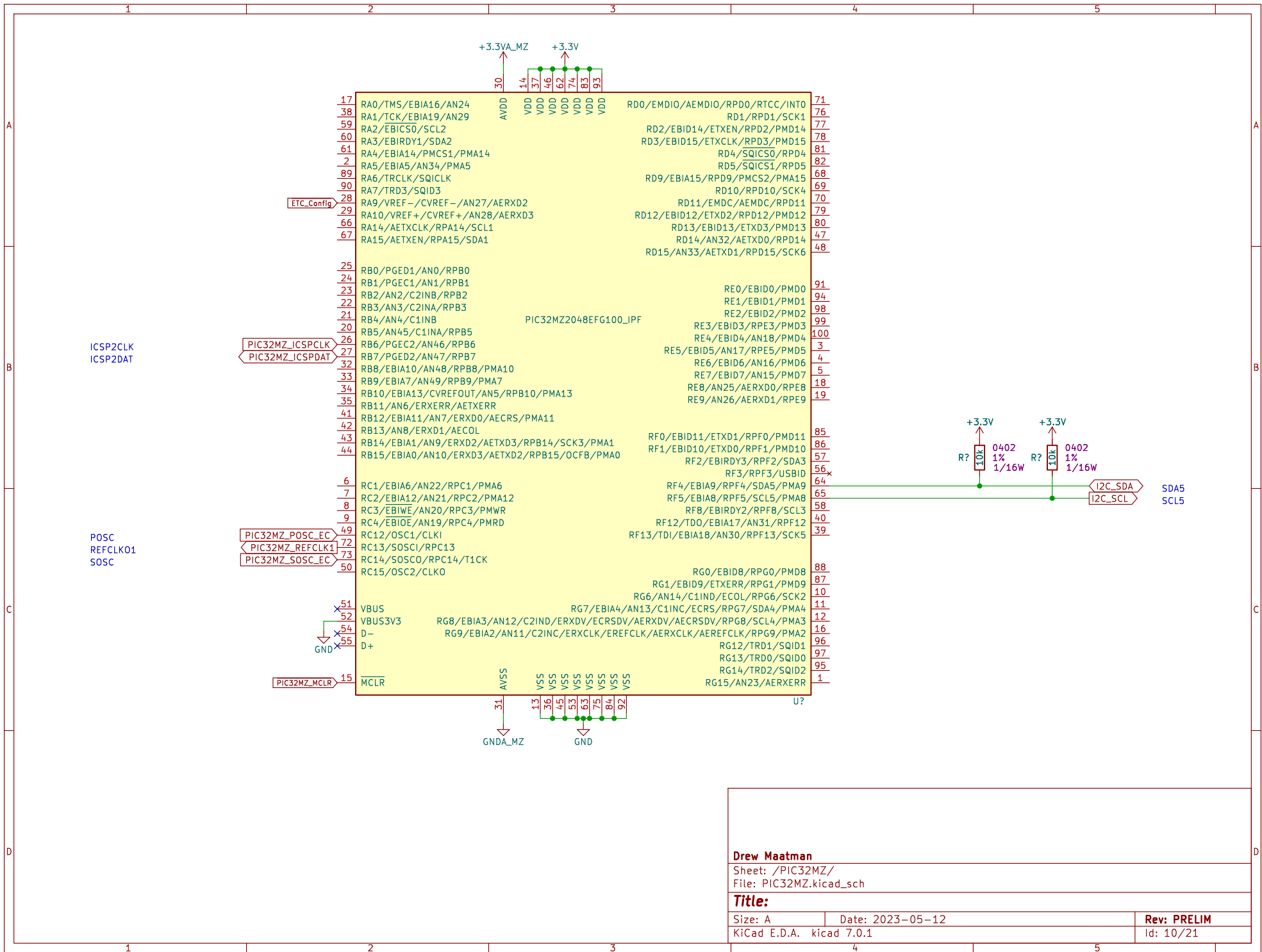
Drew Maatman

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File: PIC32MZ_Bypass.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 9/21



Drew Maatman

Sheet: /PIC32MZ/
File: PIC32MZ.kicad_sch

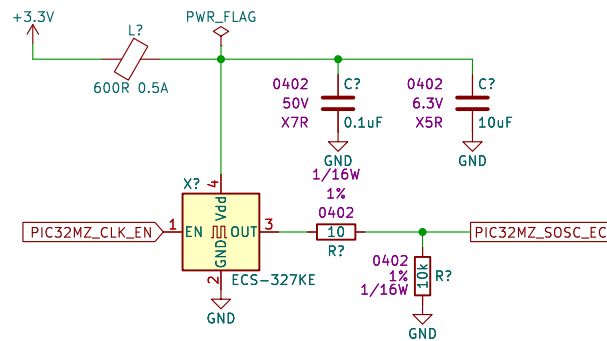
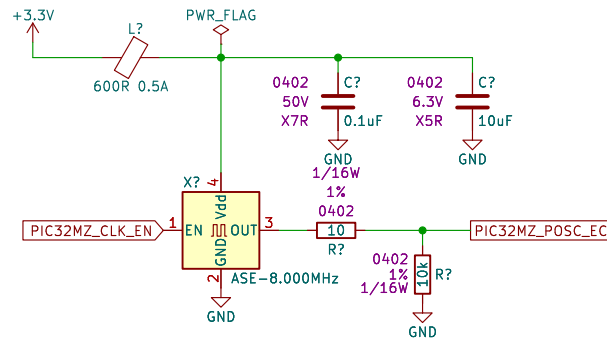
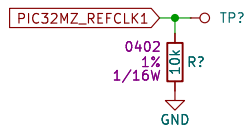
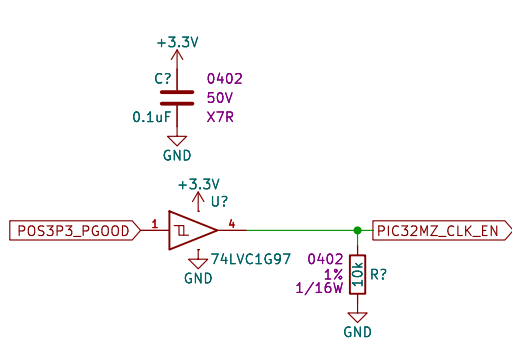
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KiCad E.D.A. kicad 7.0.1

Rev: PRELIM

Id: 10/21



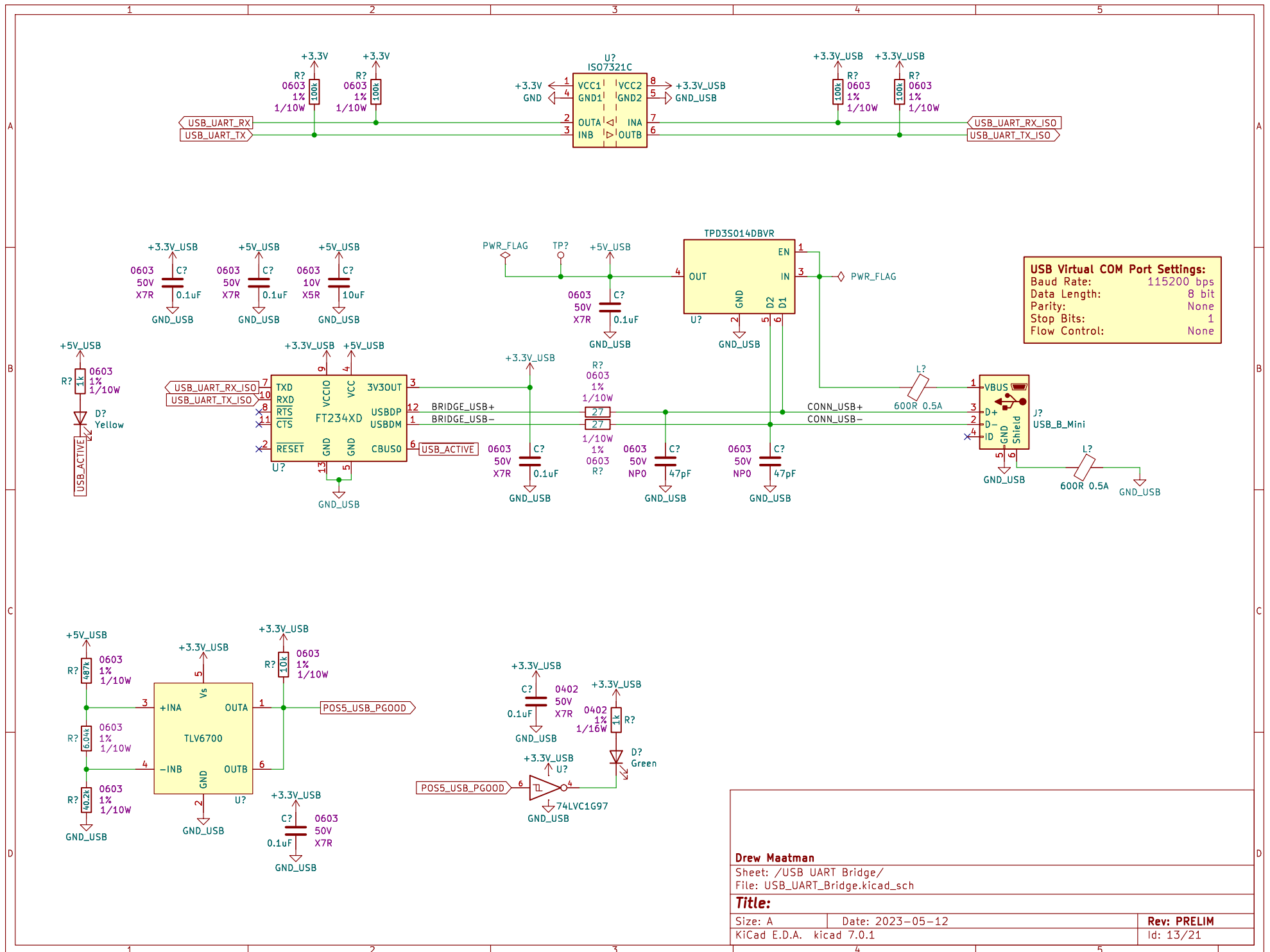
Drew Maatman

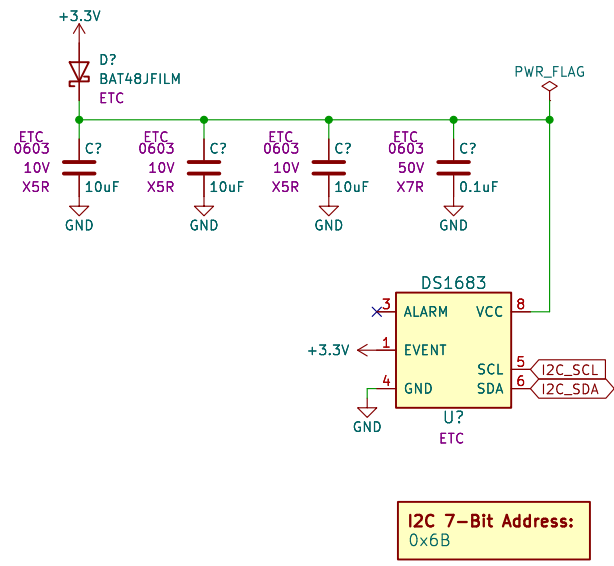
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Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 11/21





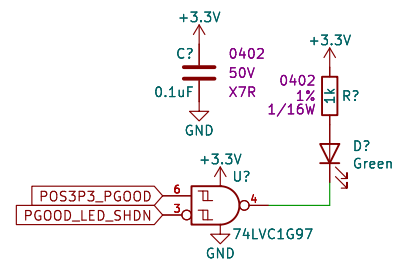
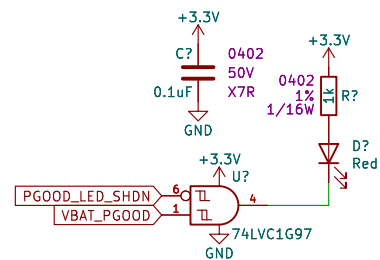
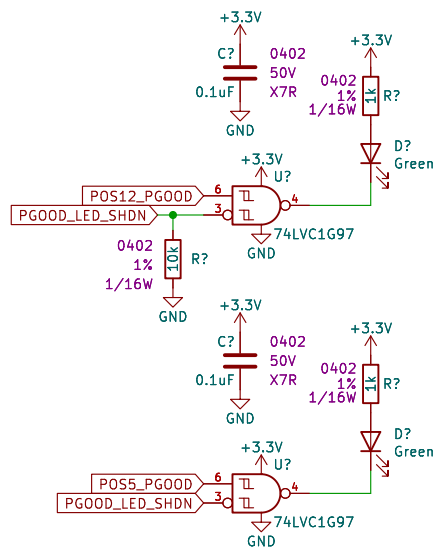
Drew Maatman

Sheet: /Platform ETC/
File: Platform_ETC.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 15/21



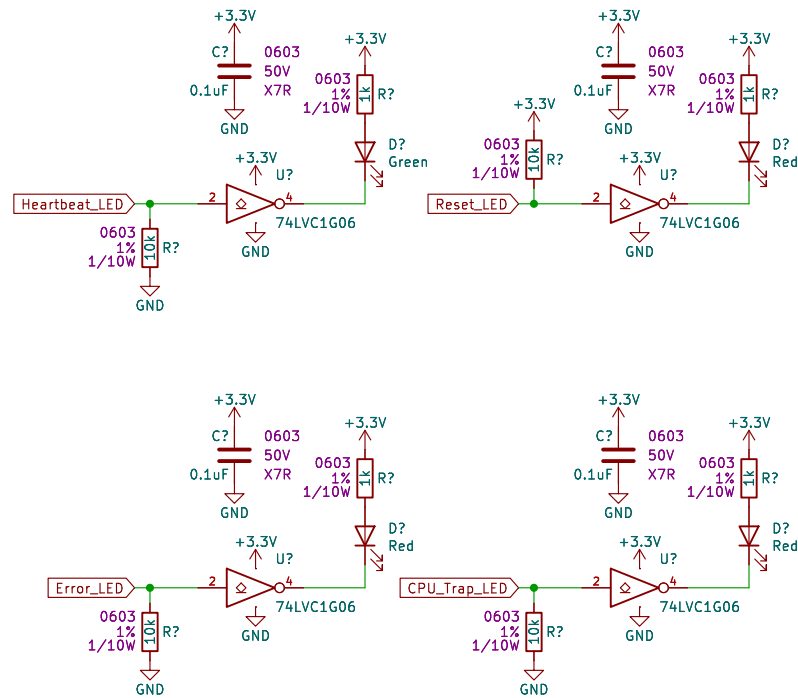
Drew Maatman

Sheet: /PGOOD LEDs/
File: PGOOD_LEDs.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 16/21



Drew Maatman

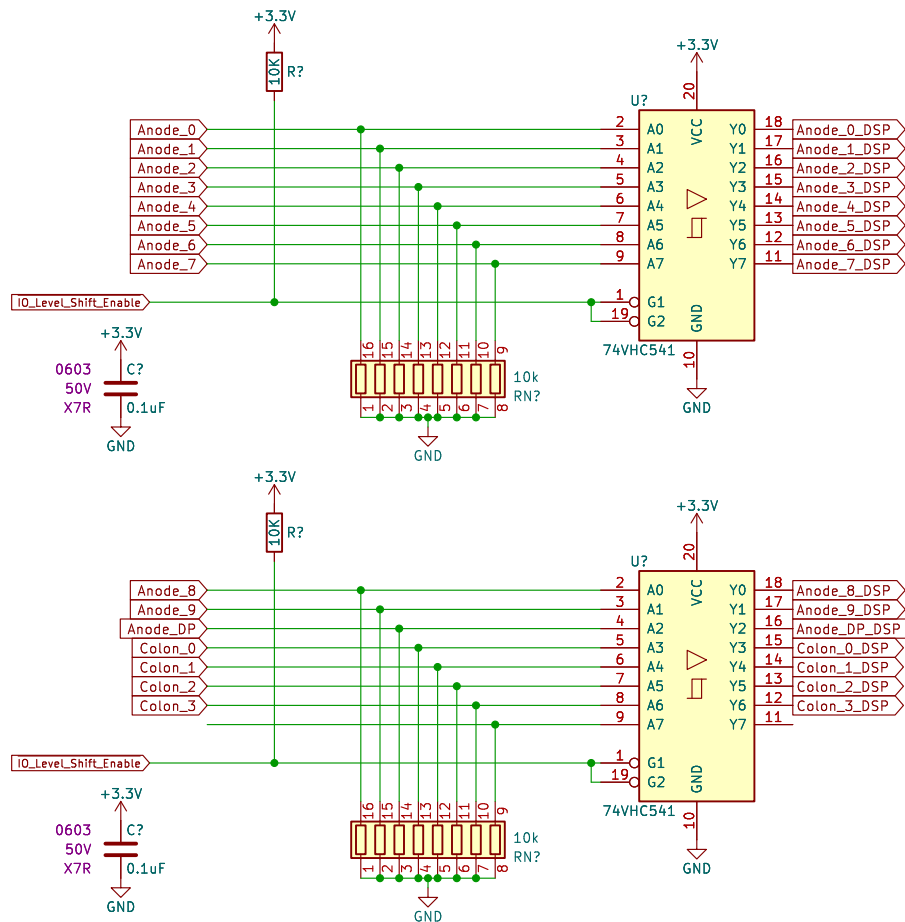
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File: Status_LEDs.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 17/21

CONSIDER SINGLE RESISTORS INSTEAD OF RPACKS



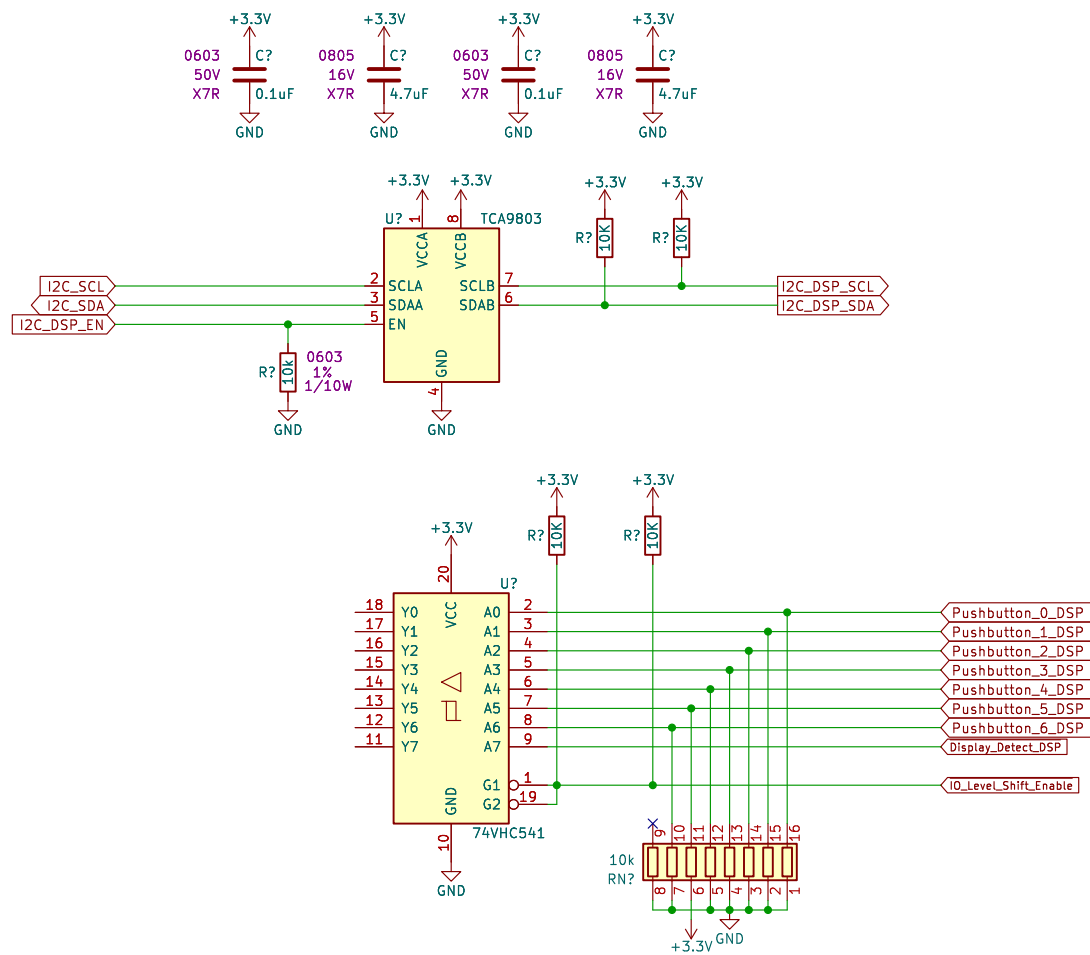
Drew Maatman

Sheet: /IO Buffers 1/
File: IO_Buffers_1.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 18/21



Drew Maatman

Sheet: /IO Buffers 2/
File: IO_Buffers_2.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 19/21

FIND A CONNECTOR THAT CAN HANDLE HIGH VOLTAGE
AND SIGNALLING THAT ISNT AWFUL

CONSIDER USING 0.1" SMT HEADERS

Anode_0_DSP
Anode_1_DSP
Anode_2_DSP
Anode_3_DSP
Anode_4_DSP
Anode_5_DSP
Anode_6_DSP
Anode_7_DSP

I2C_DSP_SCL
I2C_DSP_SDA

Pushbutton_0_DSP
Pushbutton_1_DSP
Pushbutton_2_DSP
Pushbutton_3_DSP
Pushbutton_4_DSP
Pushbutton_5_DSP
Pushbutton_6_DSP
Display_Detect_DSP

Anode_8_DSP
Anode_9_DSP
Anode_DP_DSP
Colon_0_DSP
Colon_1_DSP
Colon_2_DSP
Colon_3_DSP

+90V
↑

+180V
↑

Drew Maatman

Sheet: /IO Connectors/

File: IO Connectors.kicad_sch

Title:

Size: A Date: 2023-05-12

KiCad E.D.A. kicad 7.0.1

Rev: PRELIM

Id: 20/21

The diagram illustrates a mechanical layout with a 4x4 grid of components. The components are arranged in three main sections: Bottom, Between Boards, and Top. The components are labeled as follows:

- Bottom:** 4x4 grid of **MountingHole** components.
- Between Boards:** 4x4 grid of **Standoff** components.
- Top:** 4x4 grid of **Screw** components.

The components are arranged in a 4x4 grid. The components are labeled as follows:

- Bottom:** 4x4 grid of **MountingHole** components.
- Between Boards:** 4x4 grid of **Standoff** components.
- Top:** 4x4 grid of **Screw** components.

The components are arranged in a 4x4 grid. The components are labeled as follows:

- Bottom:** 4x4 grid of **MountingHole** components.
- Between Boards:** 4x4 grid of **Standoff** components.
- Top:** 4x4 grid of **Screw** components.

[Top](#)

Screw
MK?

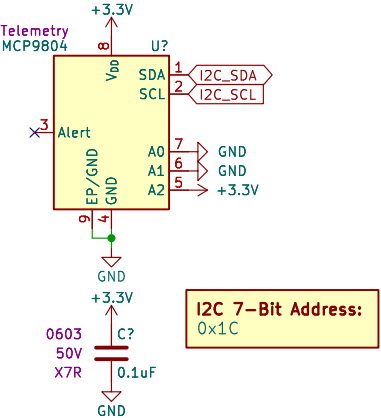
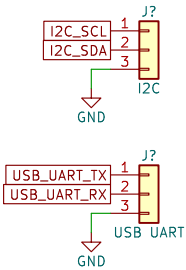
Screw
MK?

Screw
MK?

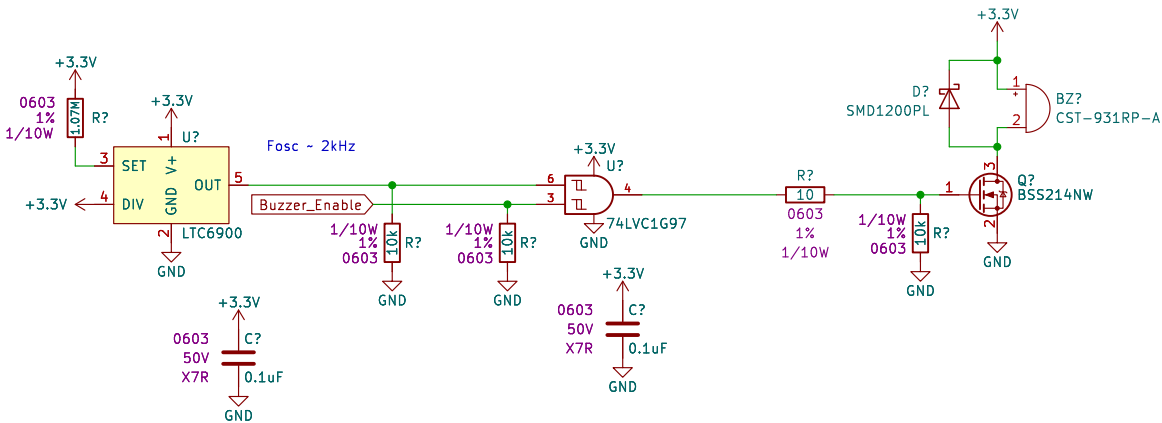
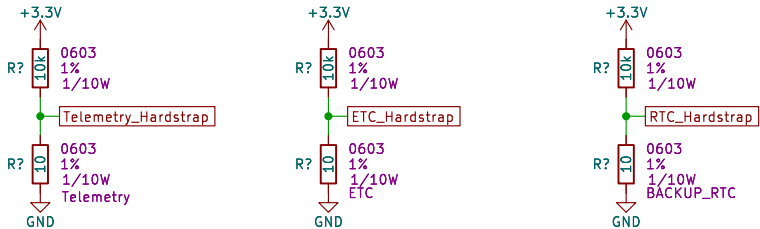
Screw
MK?

Rev: PRELIM
Id: 21/21

ADD MORE HARDSTRAPS



I2C 7-Bit Address:
0x1C



Sheet: /Misc Circuits/
File: Misc_Circuits.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad 7.0.1

Rev:

Id: 22/21