

# VFD Clock Logic Board

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**Drew Maatman**

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**Title: VFD Clock**

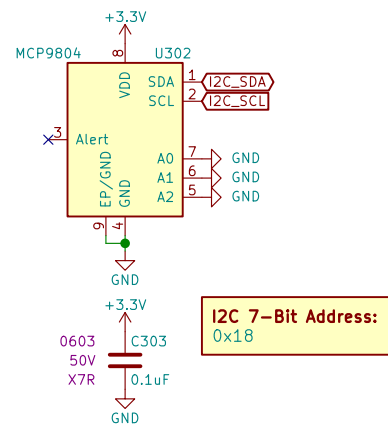
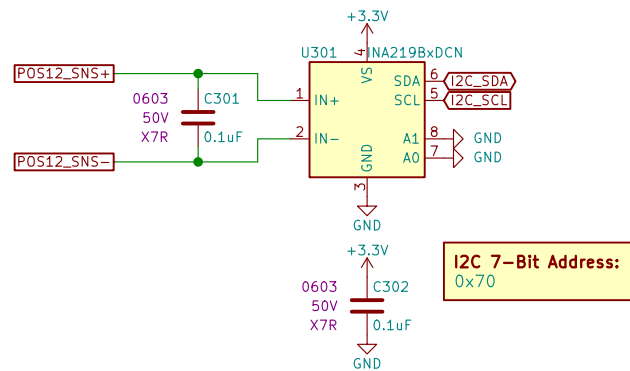
Size: A Date: 2019-04-11

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**Rev: A**

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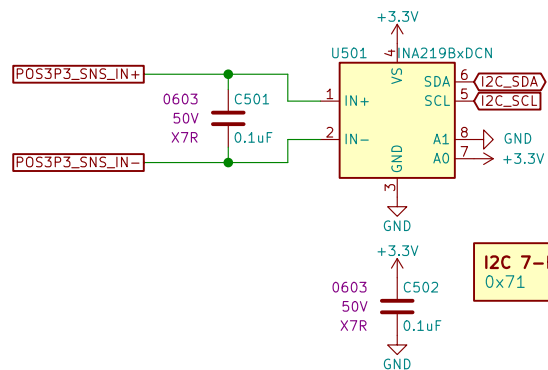
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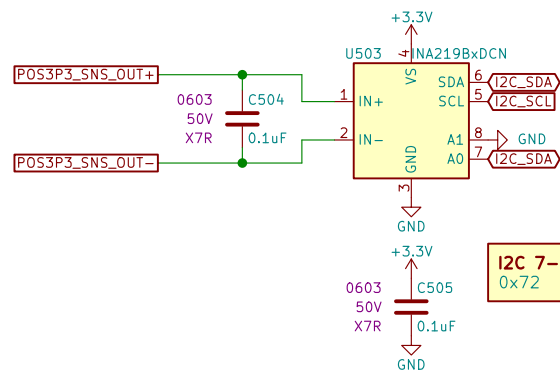
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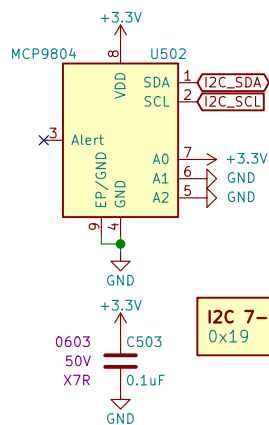
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**I2C 7-Bit Address:**  
0x71



**I2C 7-Bit Address:**  
0x72



**I2C 7-Bit Address:**  
0x19

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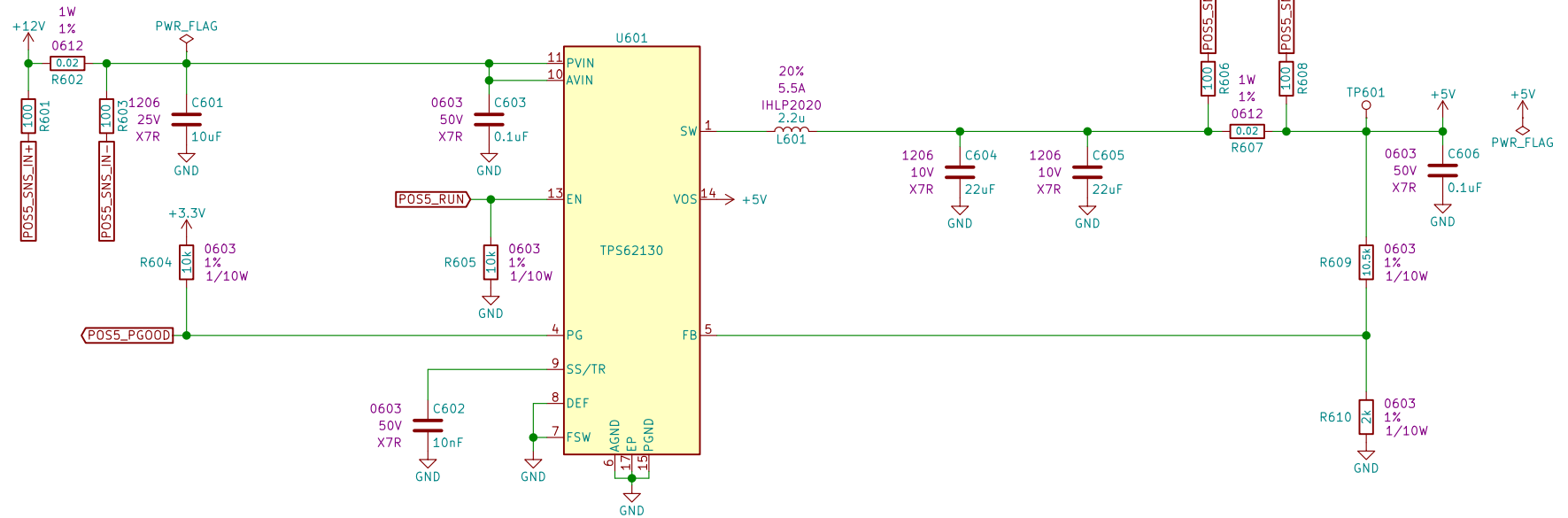
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**Rev:**

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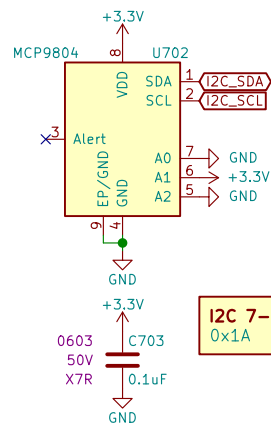
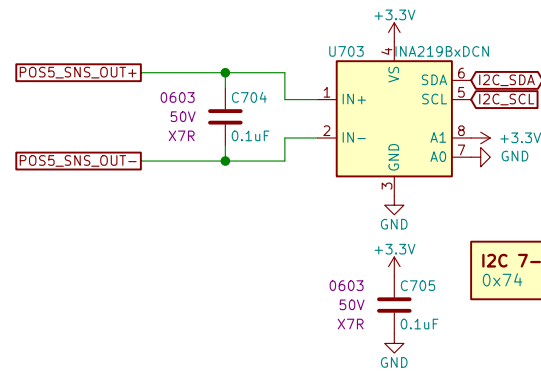
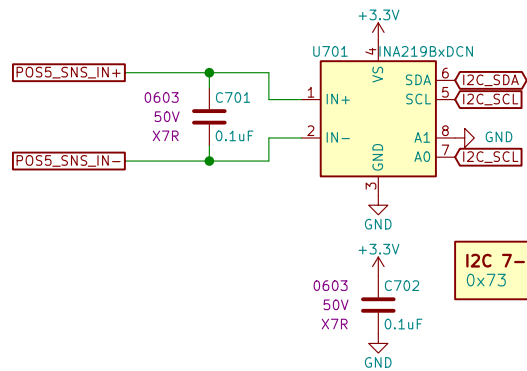


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**Title: QI Charger**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

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Sheet: /+5V Telemetry/  
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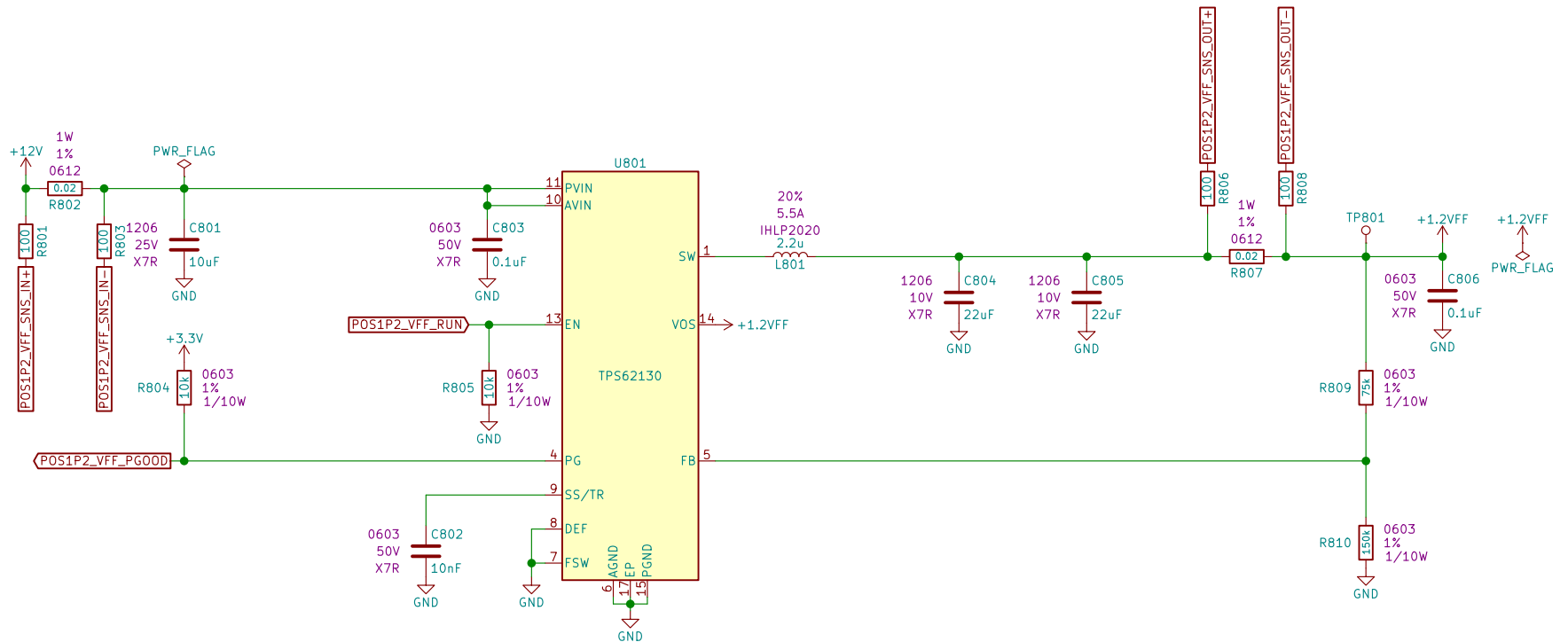
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**Rev:**

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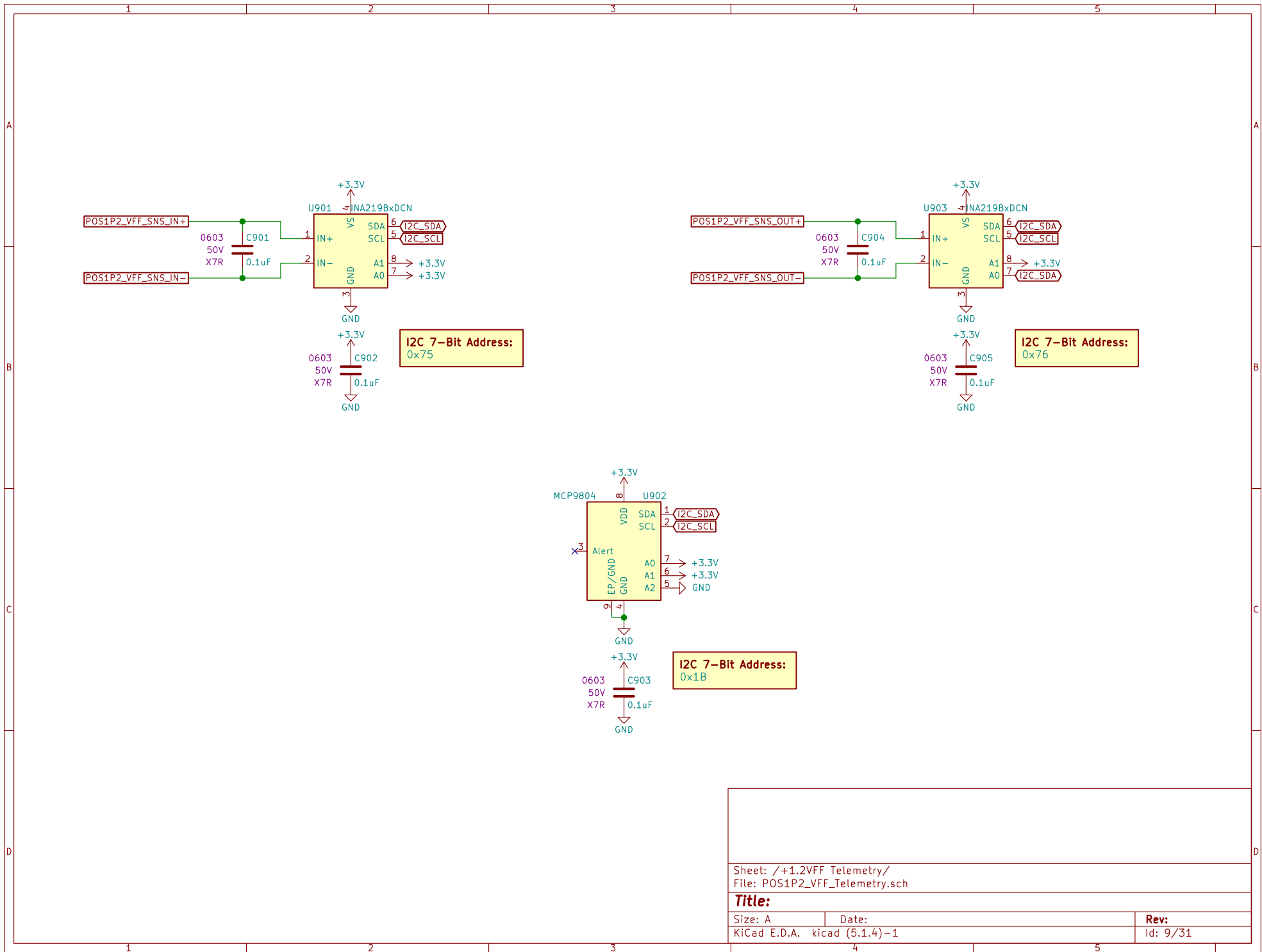
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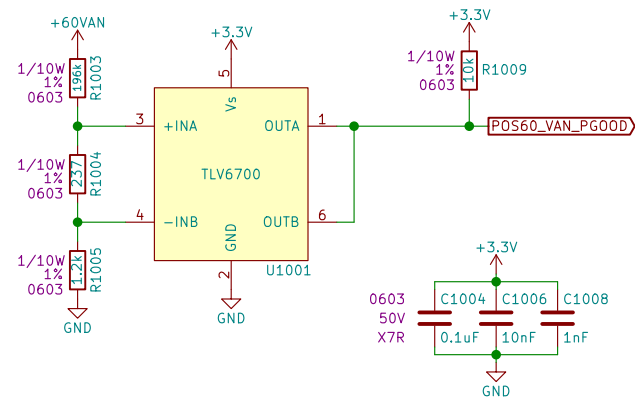
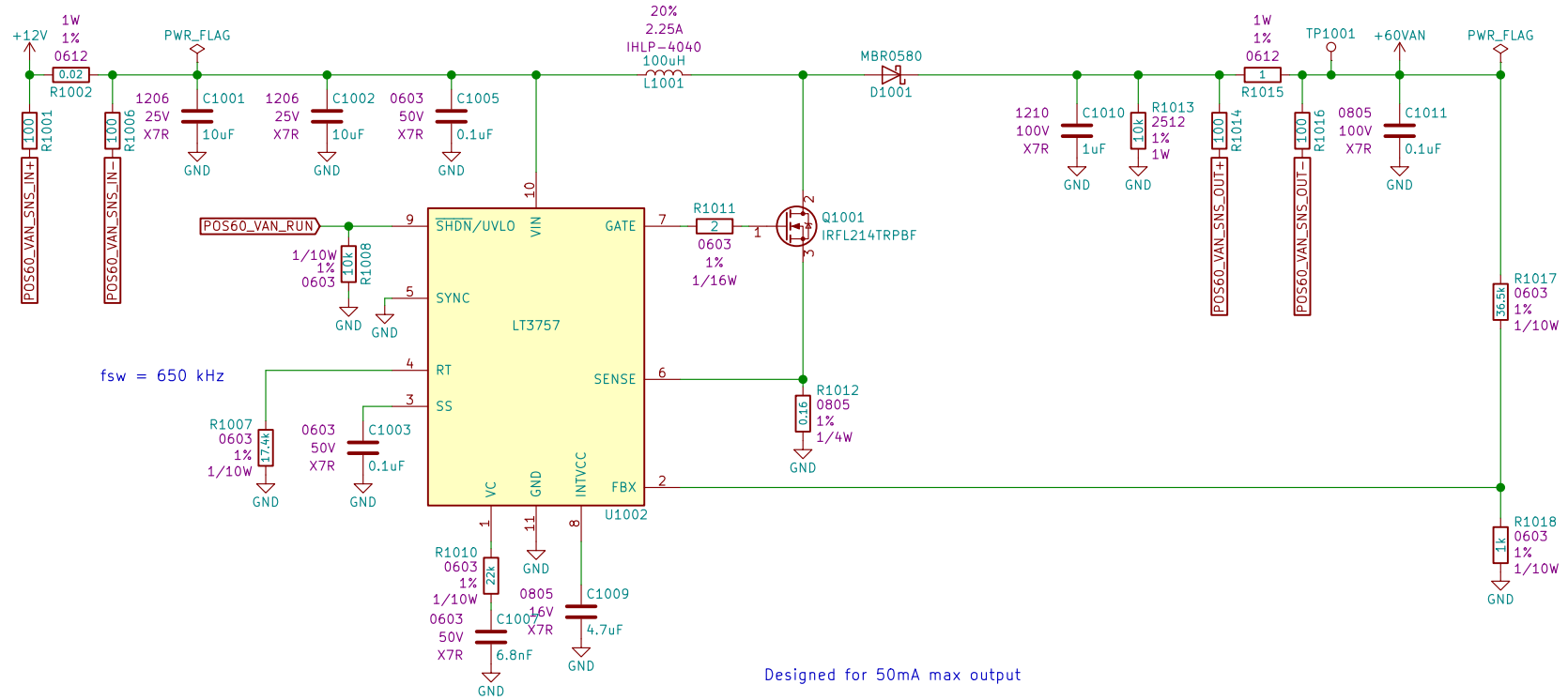
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## Anode/Grid +60V, 50mA Power Supply



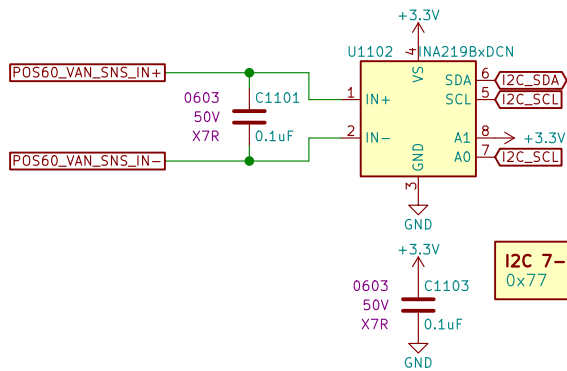
Drew Maatman

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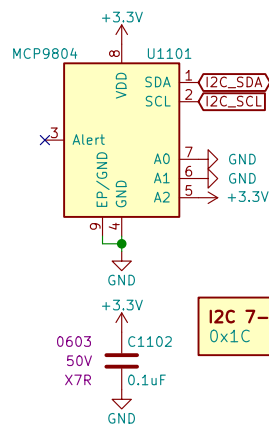
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Size: A Date: 2019-04-11  
KiCad E.D.A. kicad (5.1.4)-1

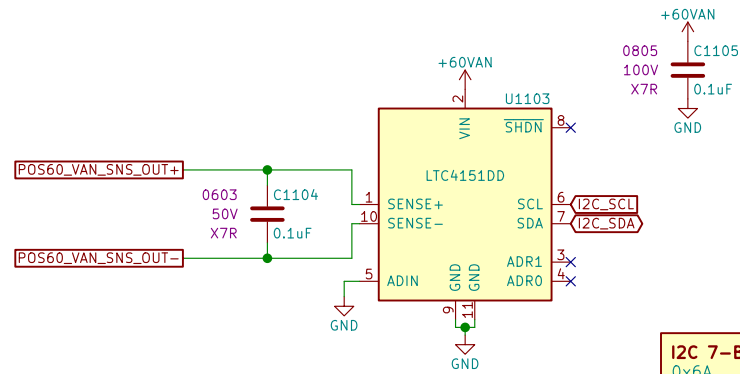
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**I2C 7-Bit Address:**  
0x77



**I2C 7-Bit Address:**  
0x1C



**I2C 7-Bit Address:**  
0x6A

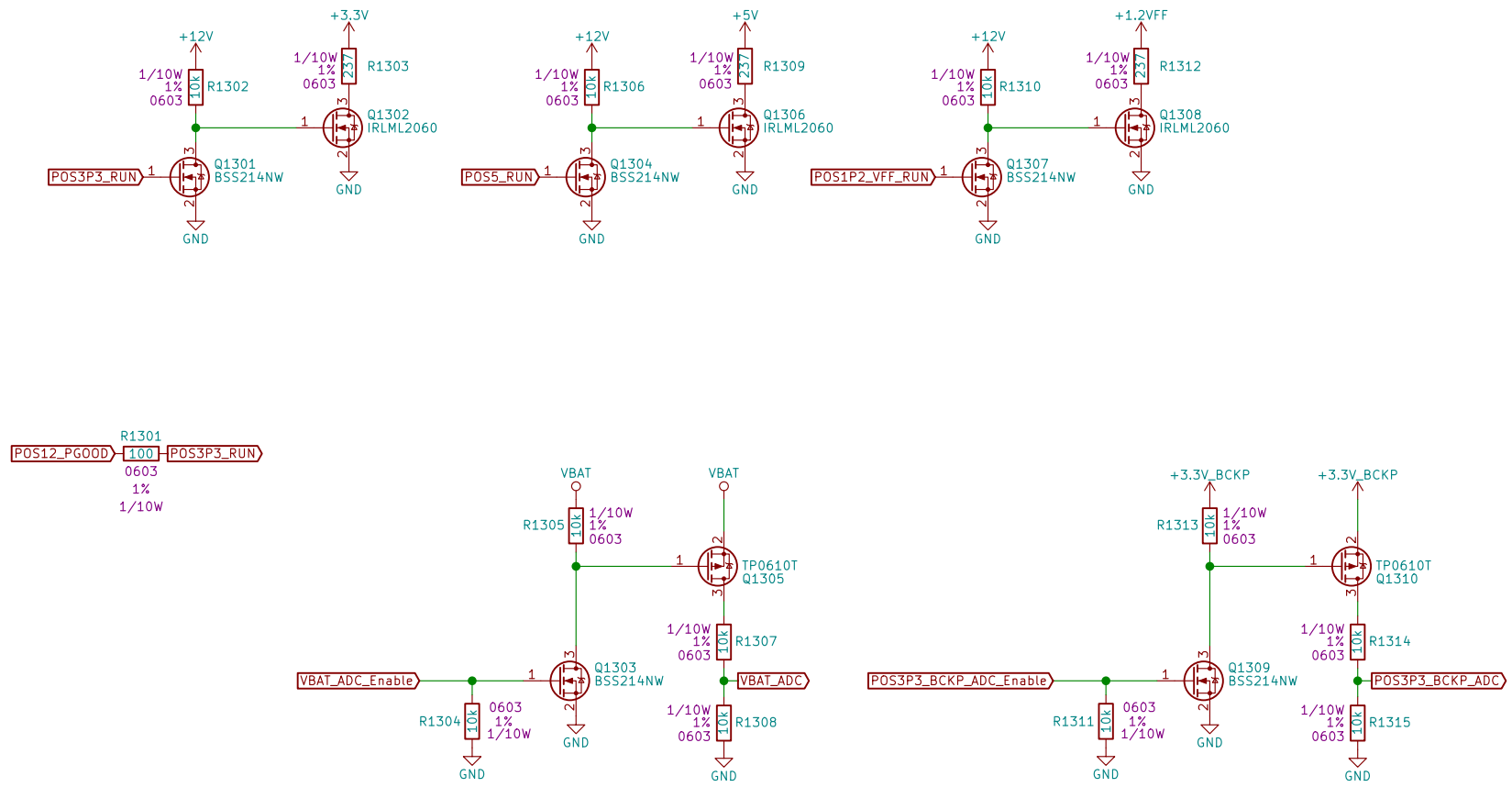
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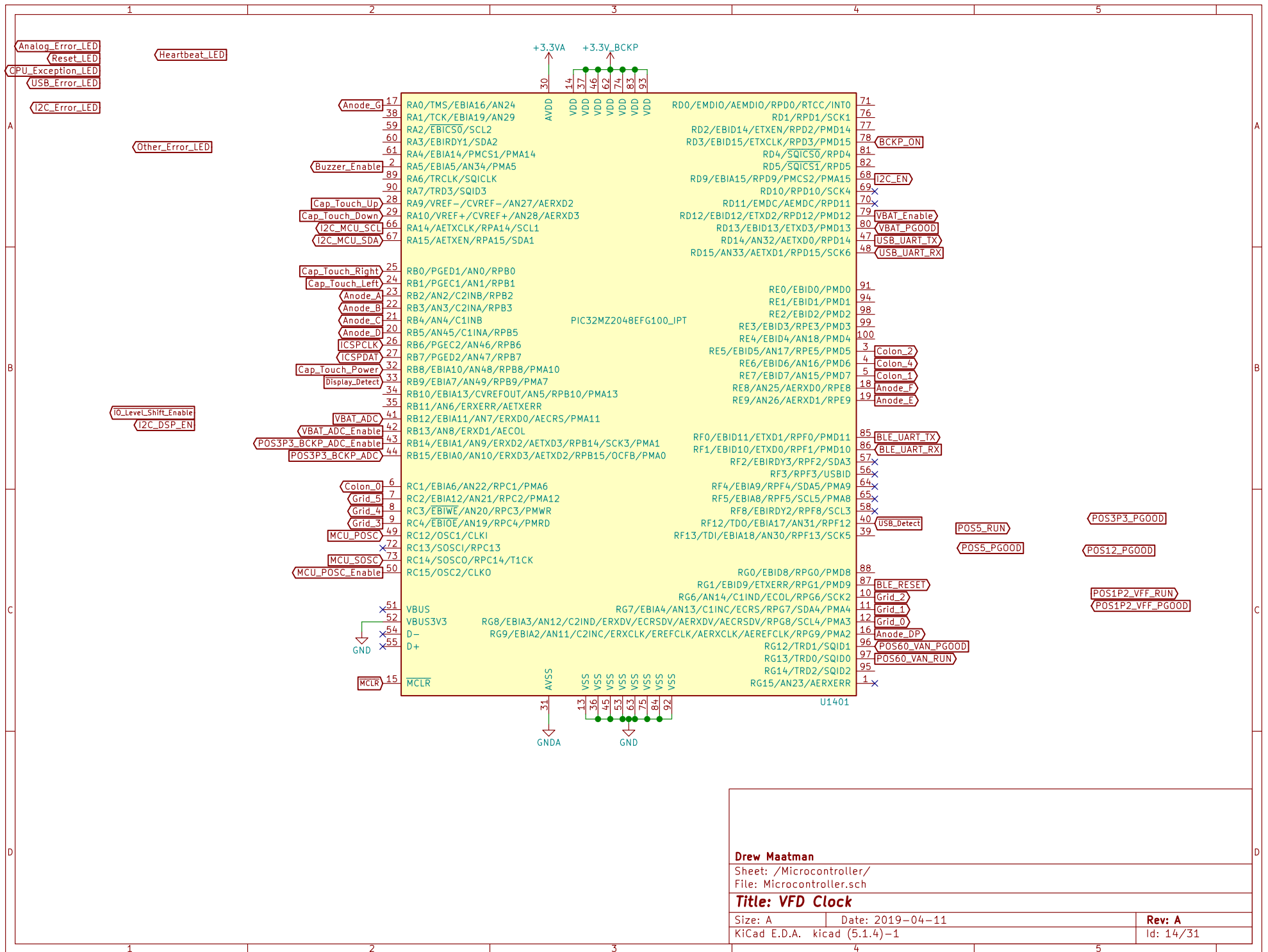
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**Rev:**  
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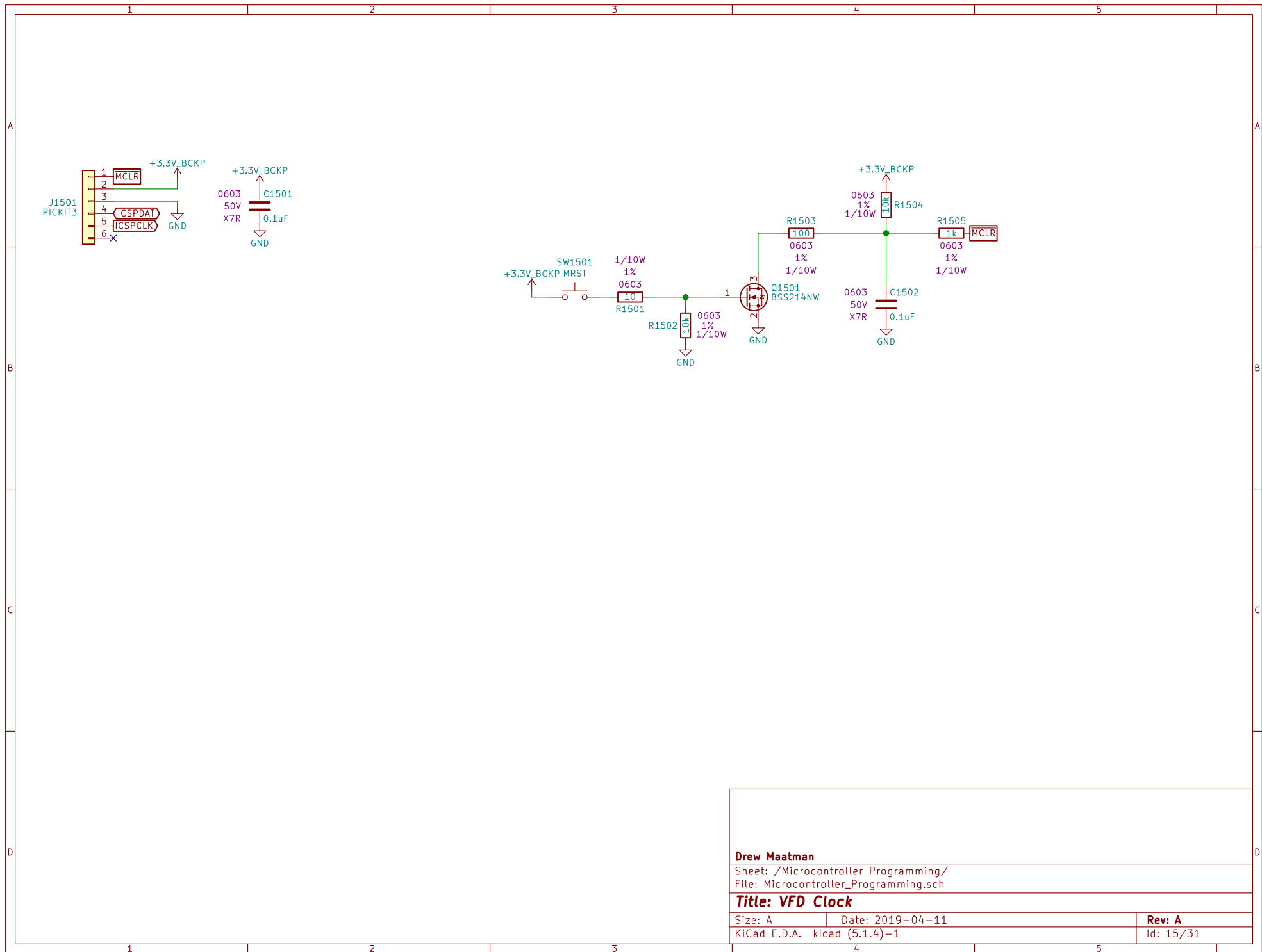
Drew Maatman

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File: Microcontroller.sch

**Title: VFD Clock**

Size: A Date: 2019-04-11  
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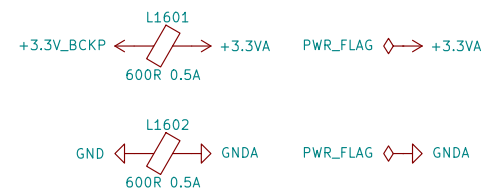
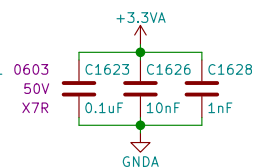
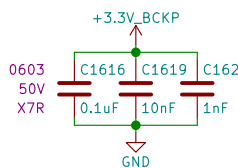
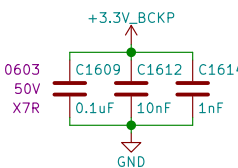
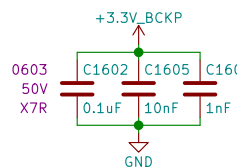
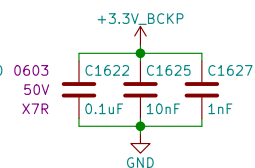
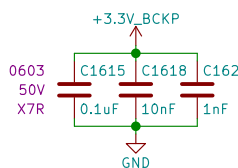
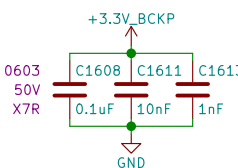
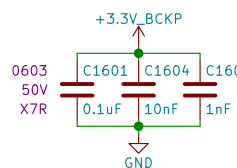
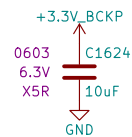
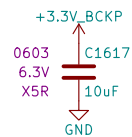
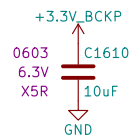
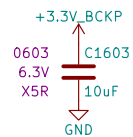
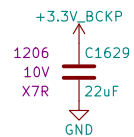
Drew Maatman

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**Title: VFD Clock**

Size: A Date: 2019-04-11  
KiCad E.D.A. kicad (5.1.4)-1

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Sheet: /Microcontroller Bypass/  
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Size: A

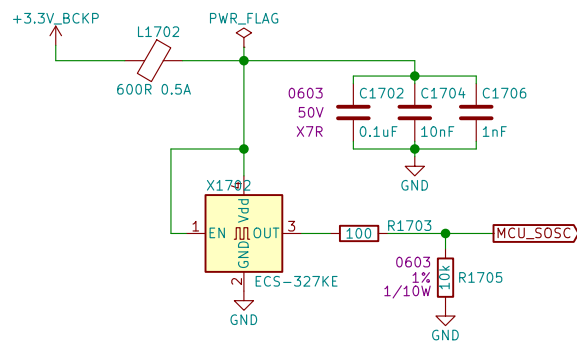
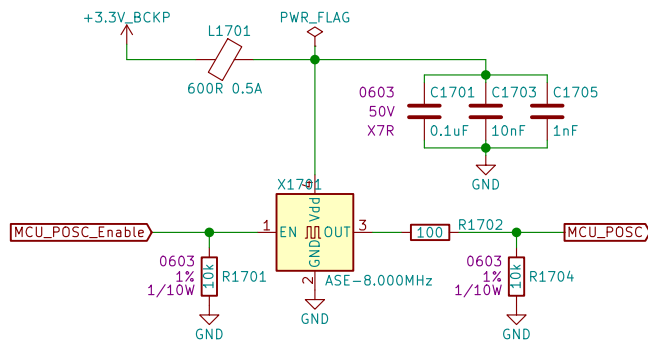
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**Rev:**

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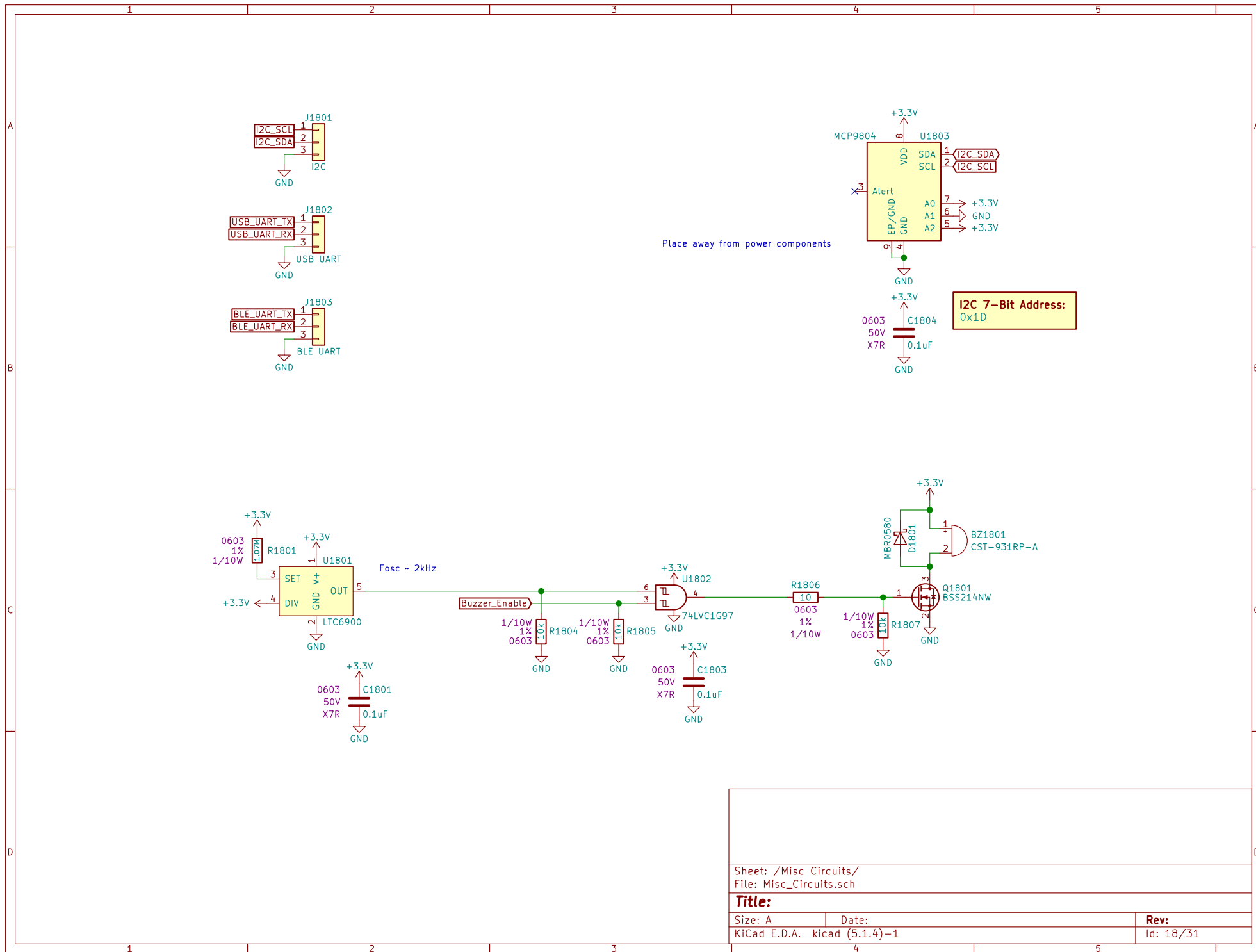
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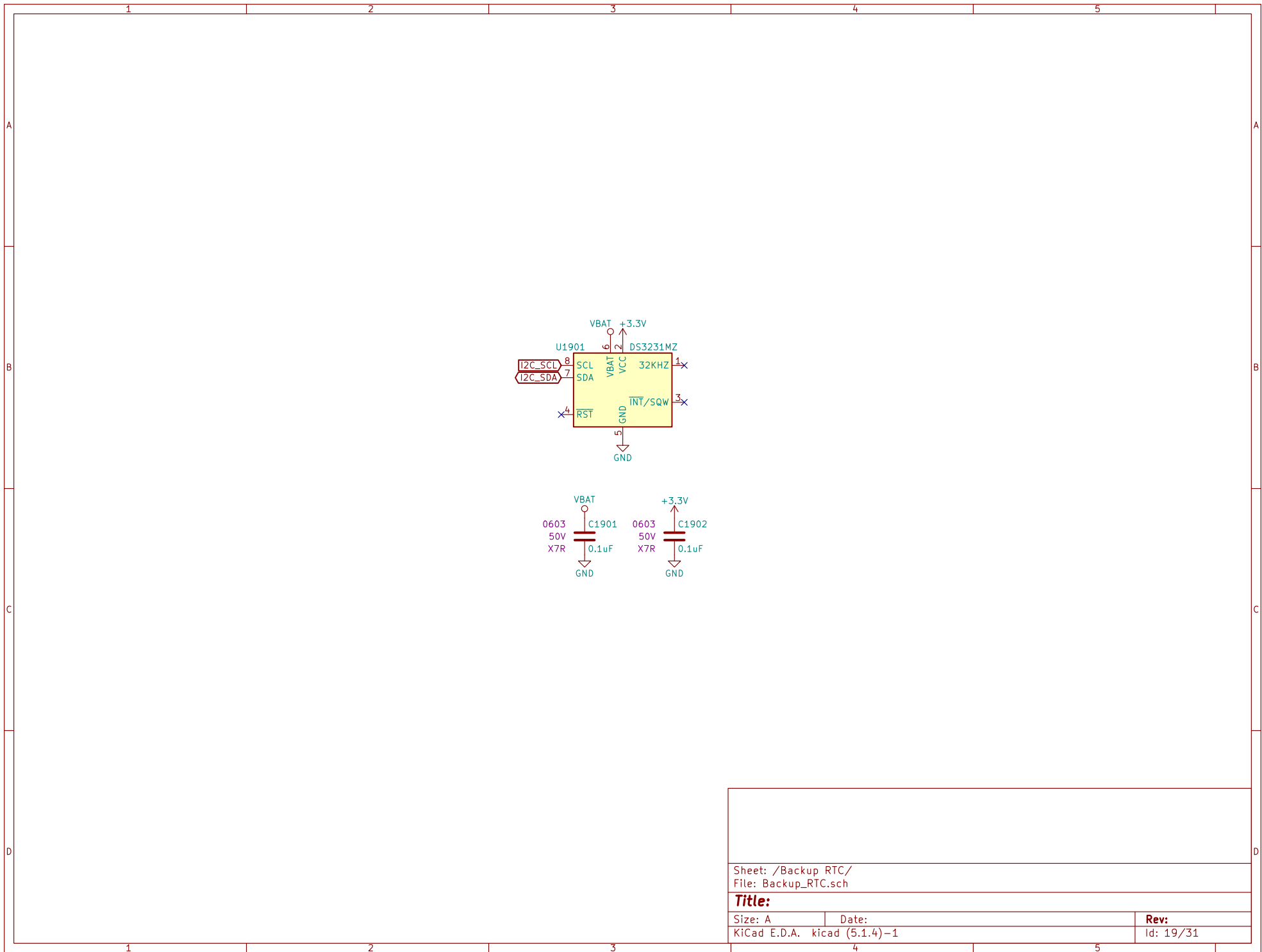
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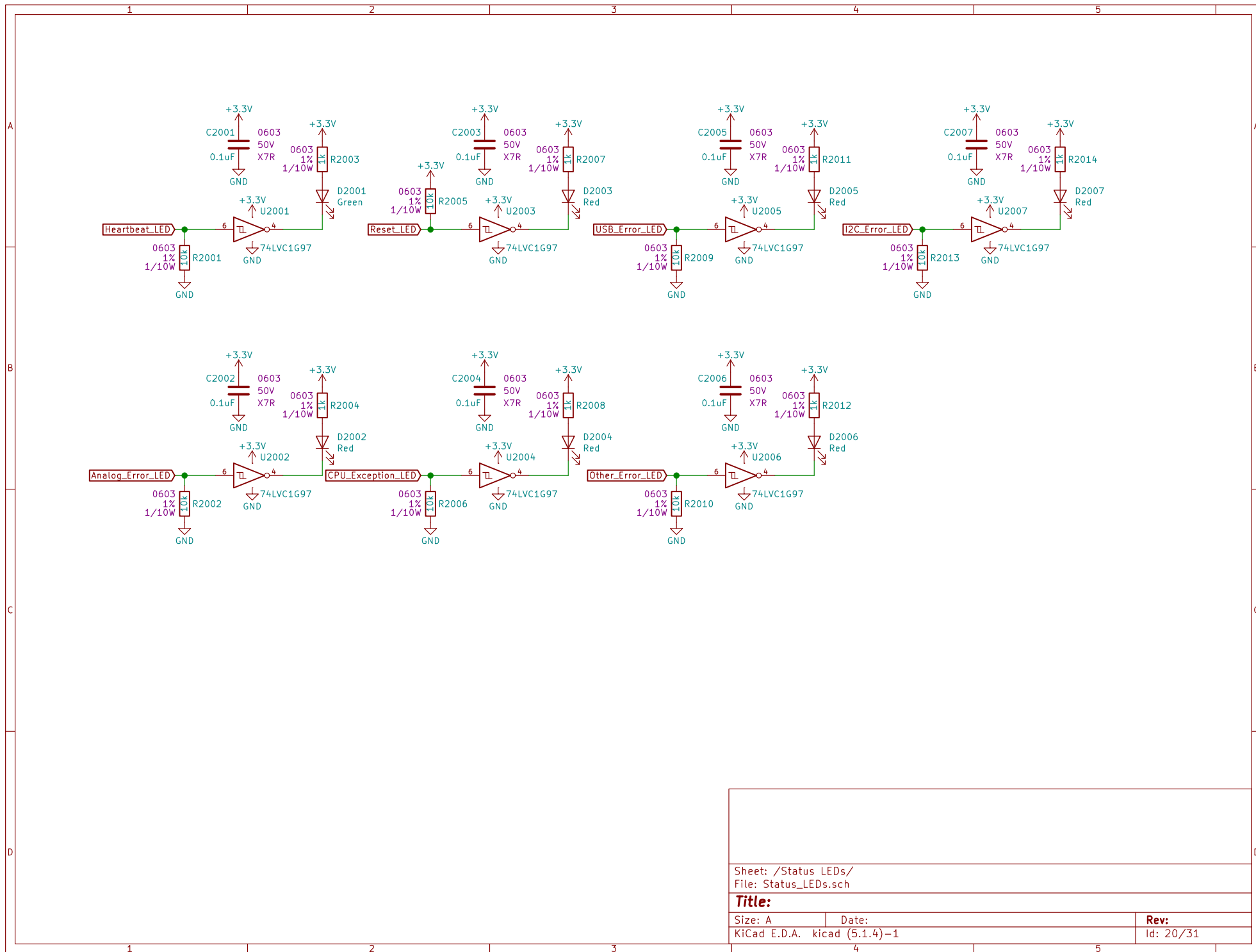
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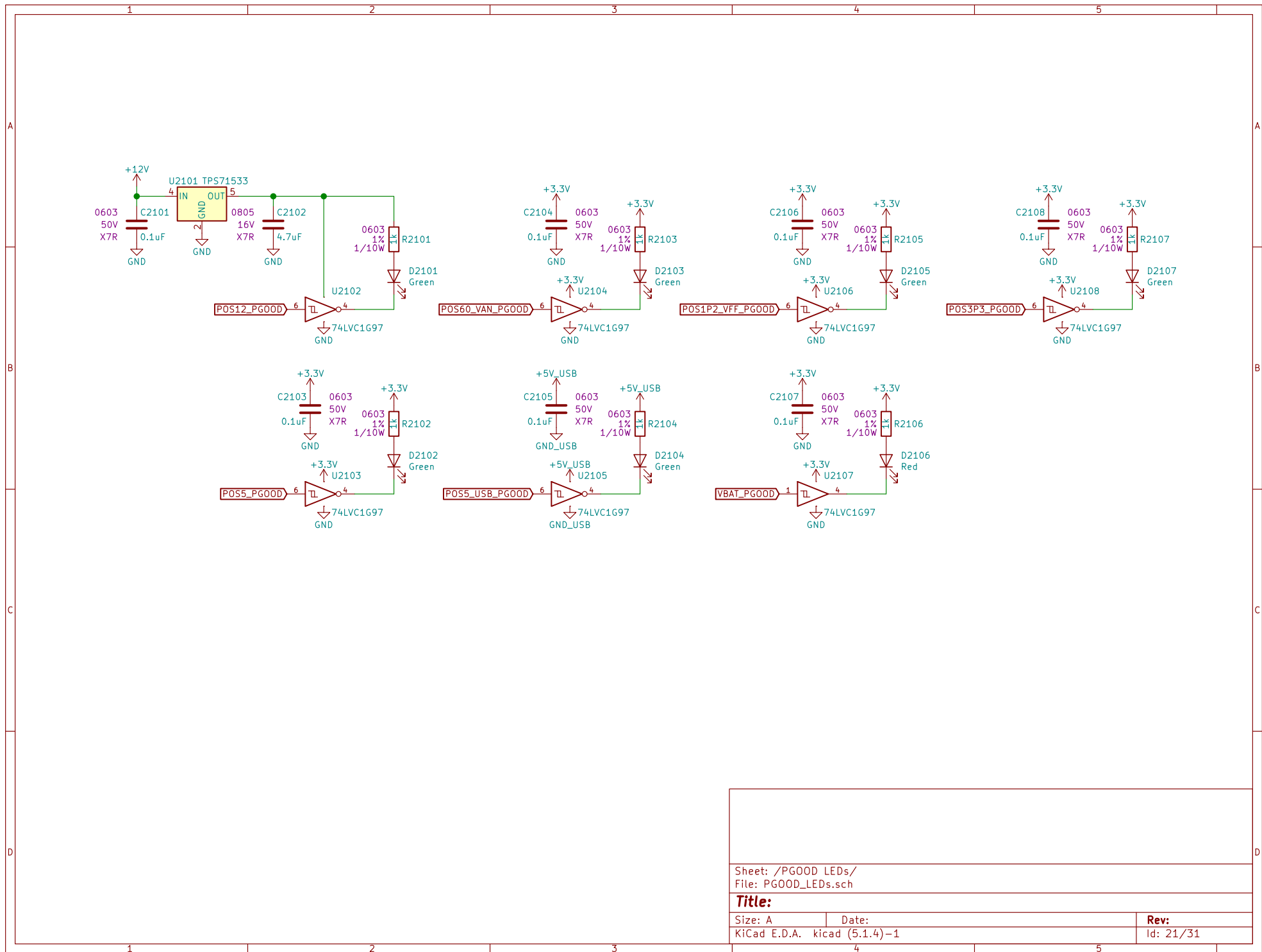
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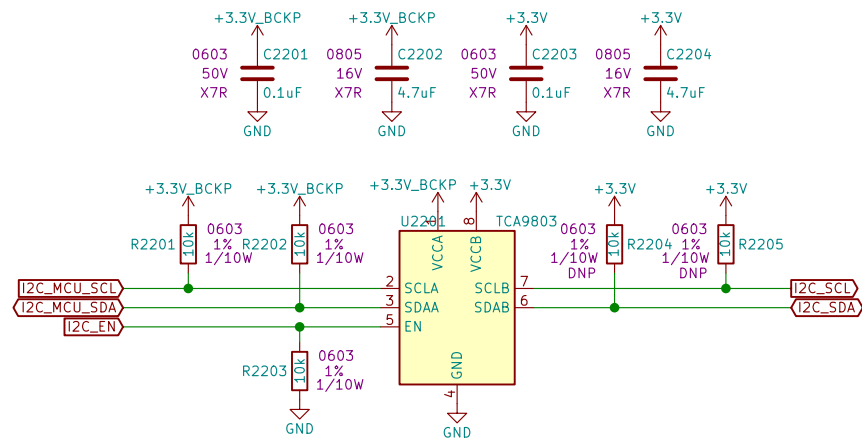








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Sheet: /I2C Buffer/  
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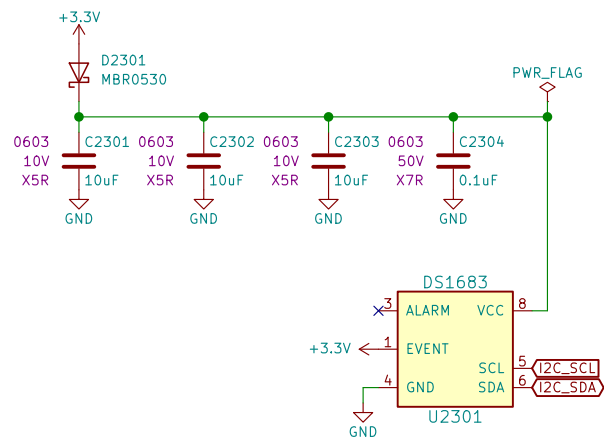
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**I2C 7-Bit Address:**  
0x3B

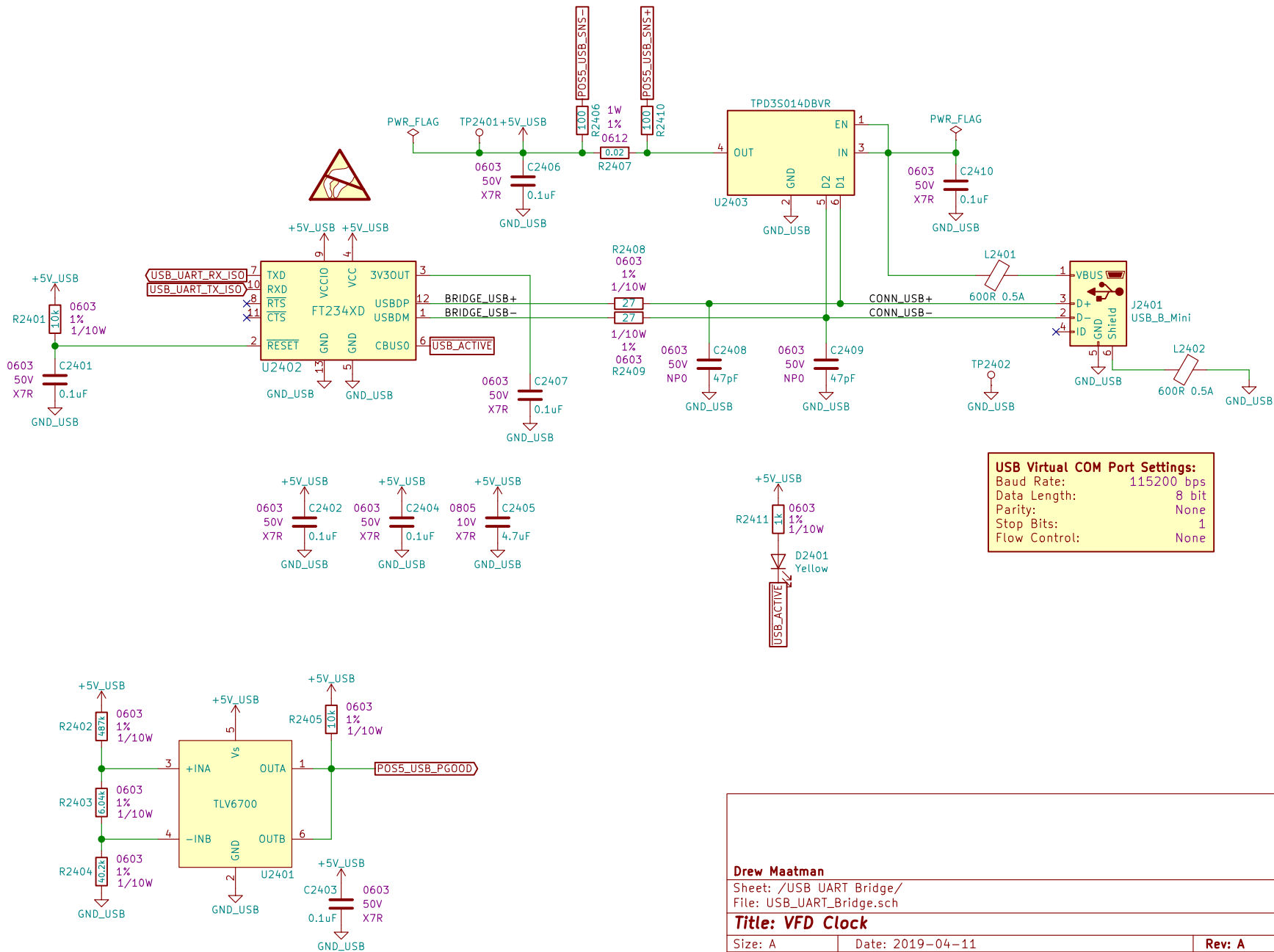
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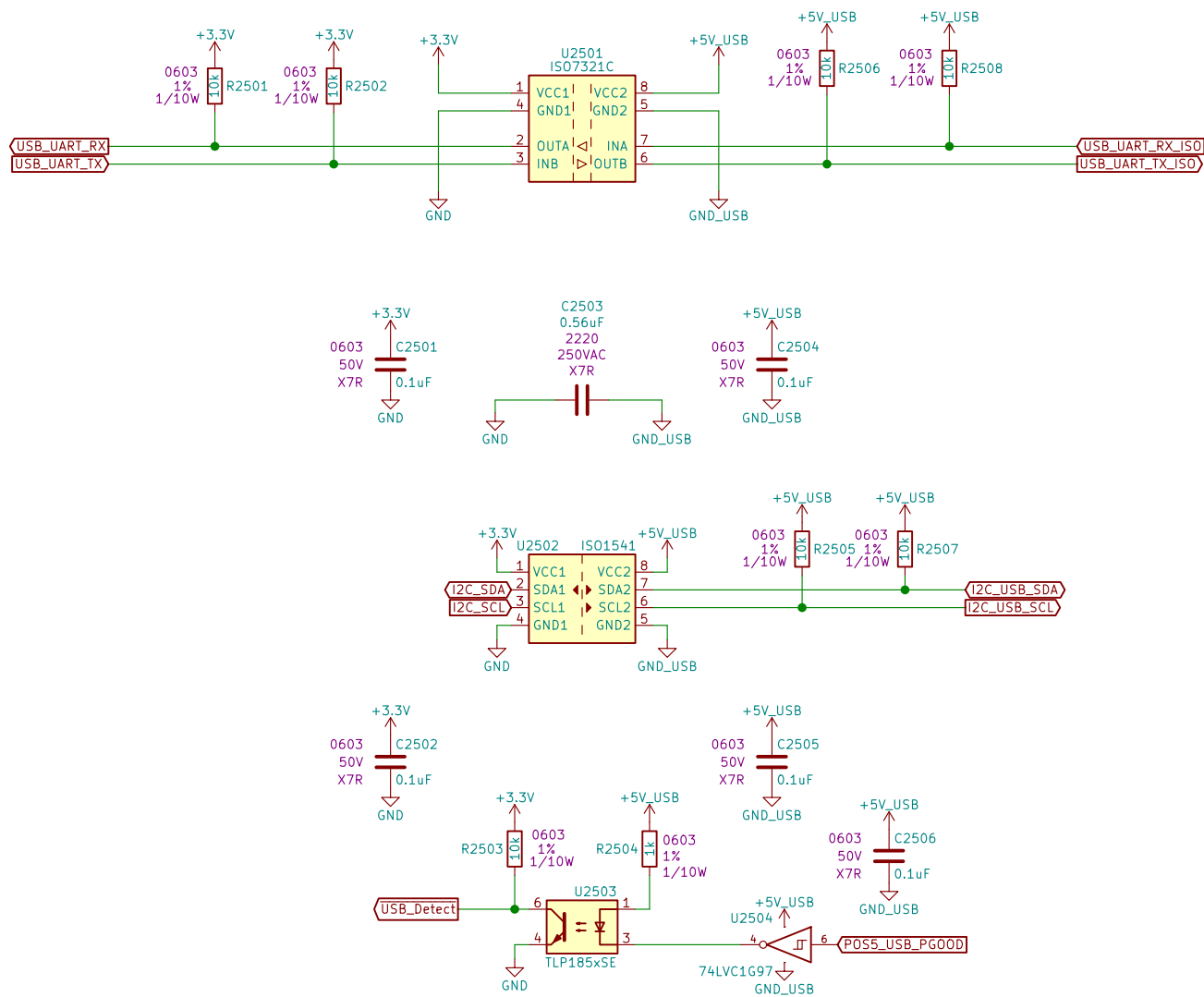
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**Rev:**  
Id: 23/31

## 11. USB UART Bridge







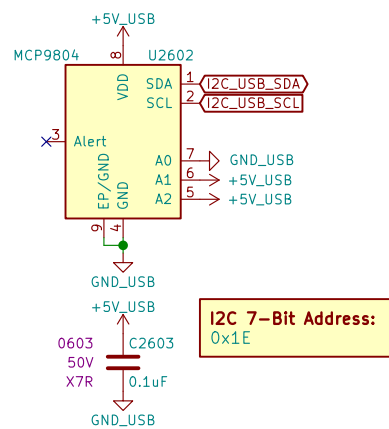
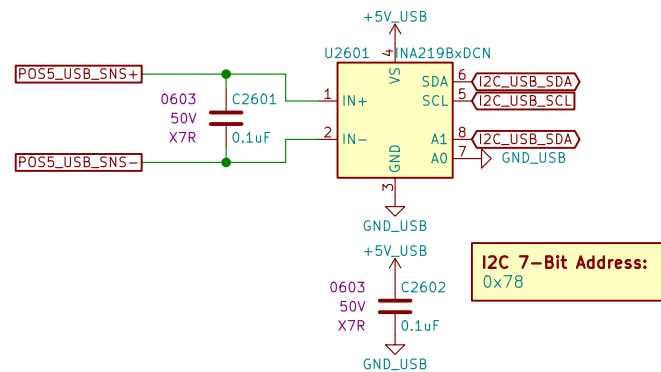
**Drew Maatman**

Sheet: /USB UART Isolation/  
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**Title: VFD Clock**

Size: A Date: 2019-04-11  
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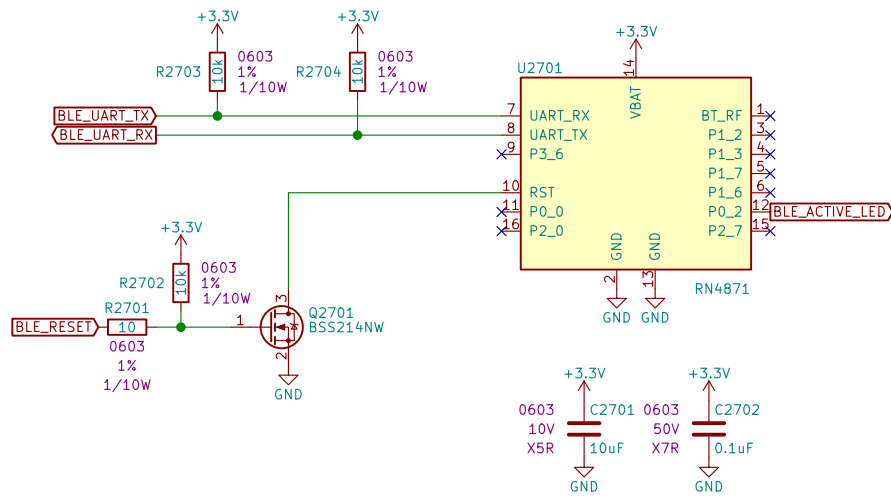


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Size: A Date:  
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Sheet: /BLE/  
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Size: A

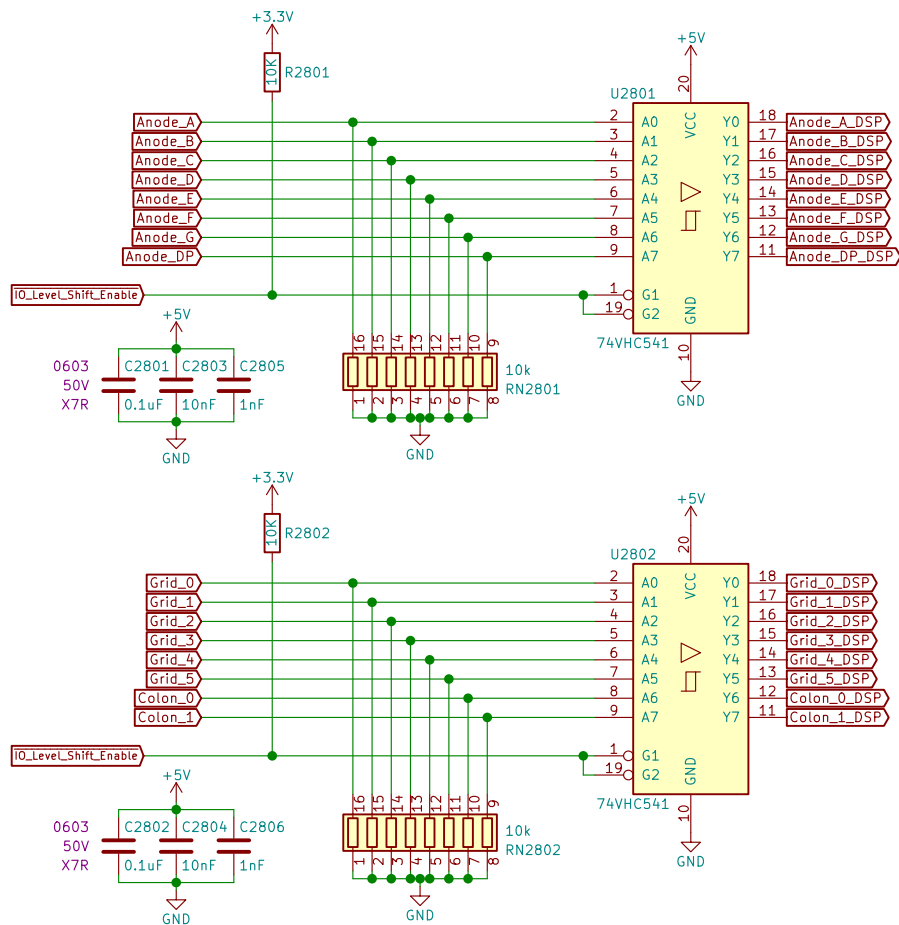
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# I/O Buffers



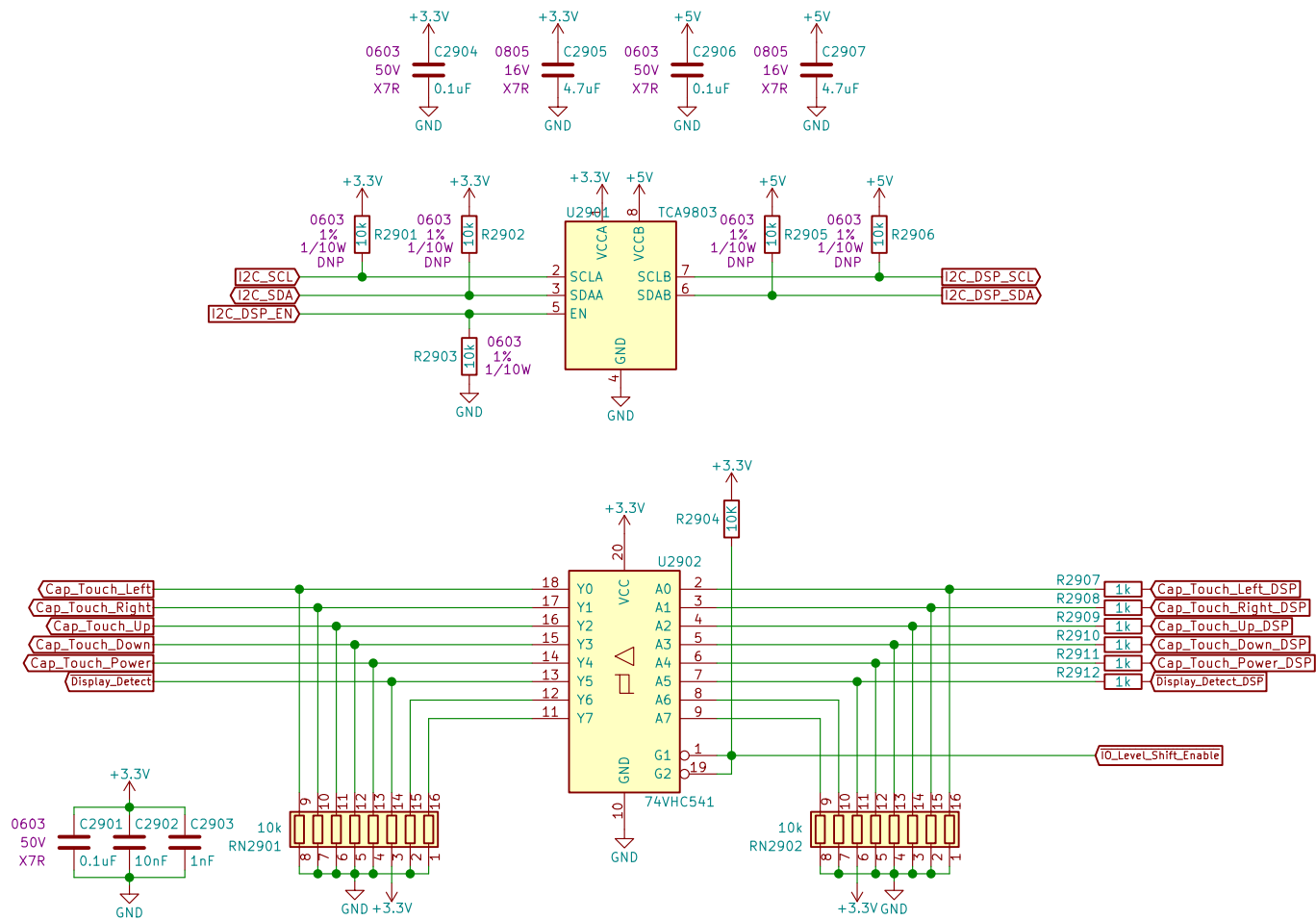
Marquette University Senior Design 2018/2019 Group E44

Sheet: /IO Buffers 1/  
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**Title: Electronic Display Logic Board**

Size: A Date: 2018-12-15  
KiCad E.D.A. kicad (5.1.4)-1

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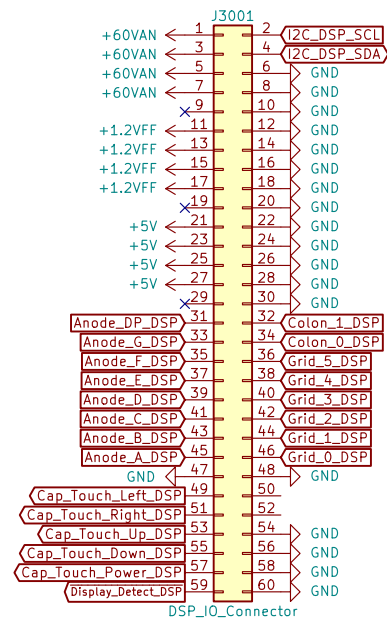


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KiCad E.D.A. kicad (5.1.4)-1

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