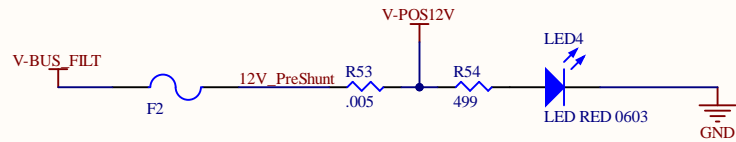

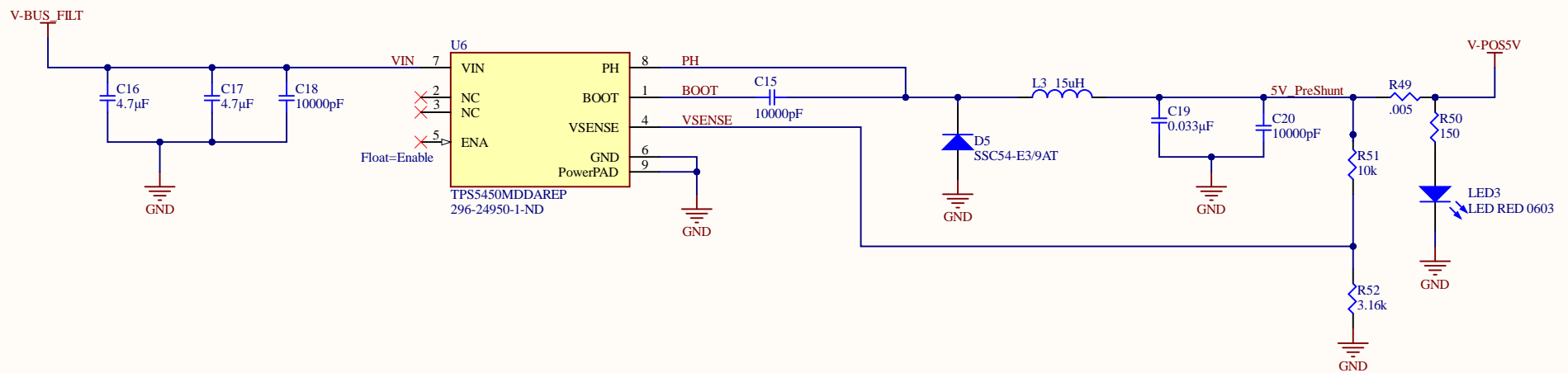


Title <b>Serial Interface</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>Zach Gunderson</b>	Revision: <b>A</b>	<div> </div>	
Date: 10/16/2022	Time: 11:16:26 AM		
File: Serial_Interface.SchDoc		Sheet 1 of 1	



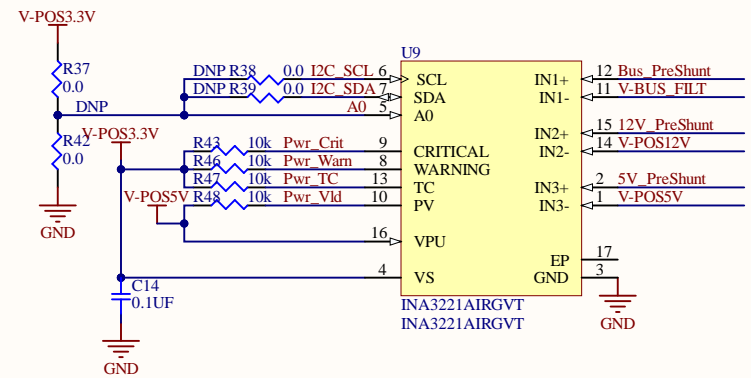
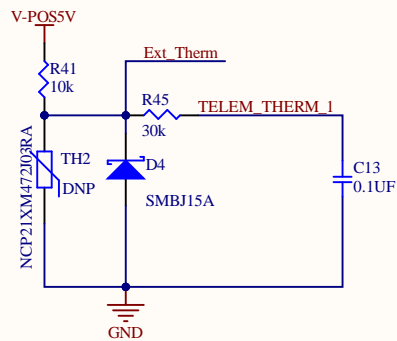
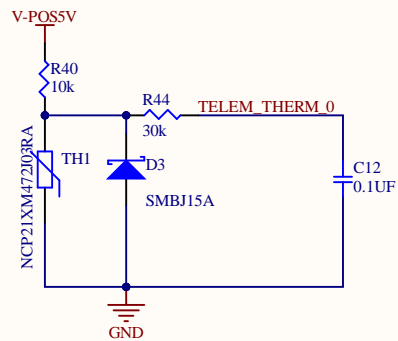
Placeholder until it is determined whether we need to regulate to 12V

Title <b>12V Power</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>		
Date: 10/16/2022	Time: 11:16:27 AM		
File: power_12v.SchDoc		Sheet 1 of 1	



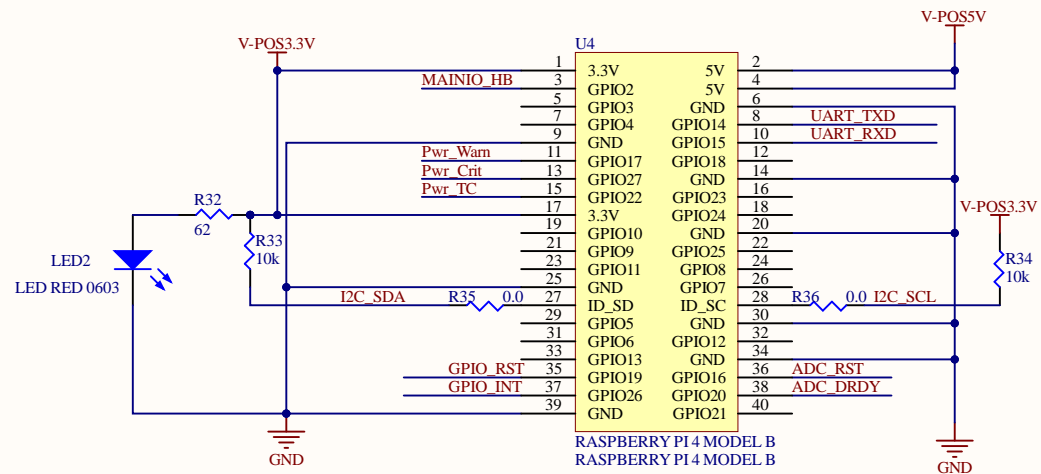
Title <b>5V Power</b>		Badgerloop Electrical	
Engineer: <b>Olivia D'Souza</b>		133 Engineering Research Building	
Date: <b>10/16/2022</b>		1500 Engineering Drive	
Time: <b>11:16:27 AM</b>		Madison, WI 53706	
File: <b>power_5v.SchDoc</b>		Revision: <b>A</b>	
		Sheet 1 of 1	



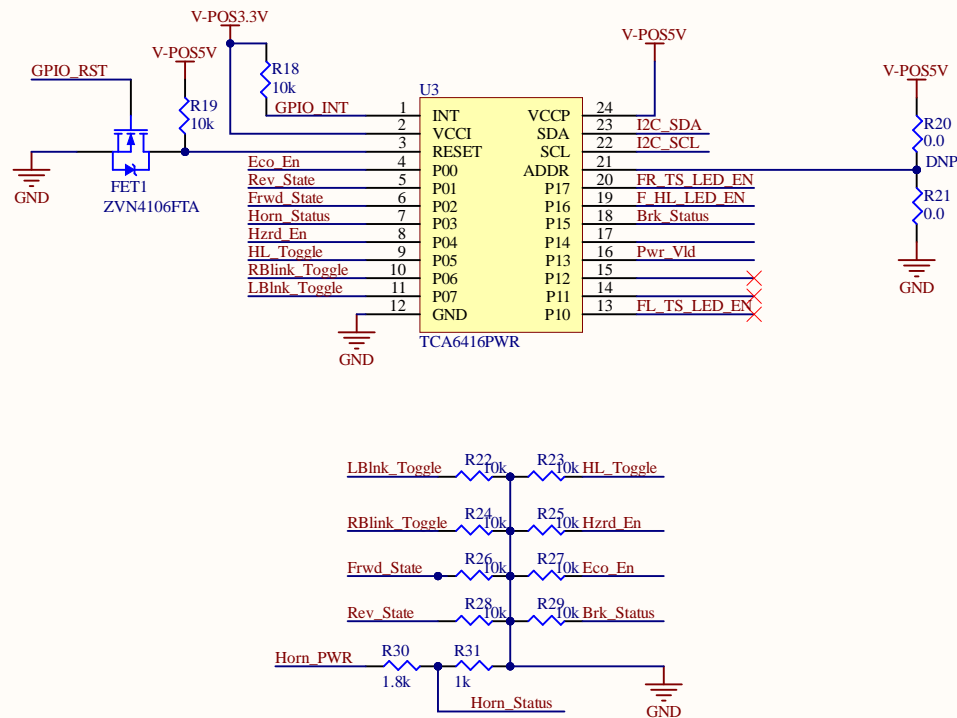


Title <b>Miscellaneous Sensors</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Marton Bocsi, McGregor Farah	Revision: A	Sheet 1 of 1	
Date: 10/16/2022	Time: 11:16:27 AM		
File: misc_sensors.SchDoc			



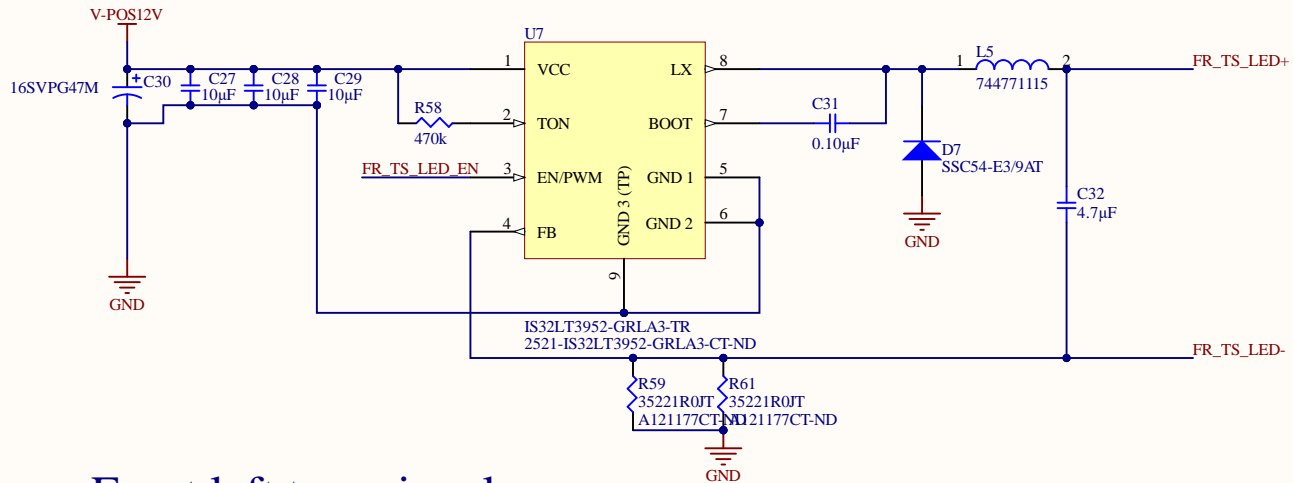


Title <b>MCU</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>	<div> <div></div> <div><b>BADGER</b></div> <div><b>LOOP</b></div> </div>	
Date: <b>10/16/2022</b>	Time: <b>11:16:28 AM</b>		
File: <b>MCU.SchDoc</b>	Sheet <b>1</b> of <b>1</b>		

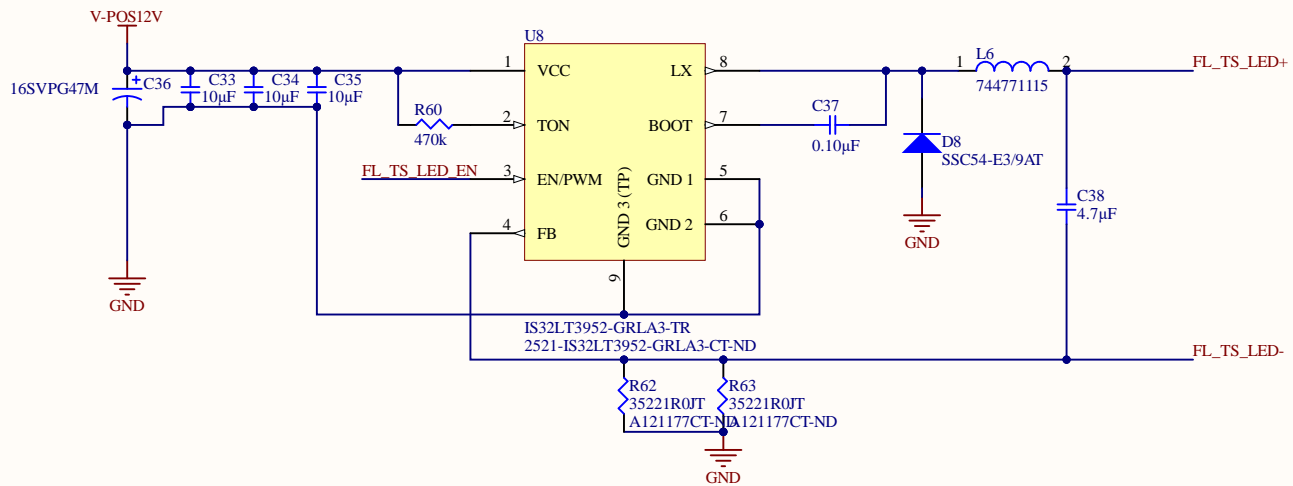



Title <b>GPIO</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>	<div> </div>	
Date: 10/16/2022	Time: 11:16:28 AM		
File: gpio.SchDoc	Sheet 1 of 1		

## Front right turn signal

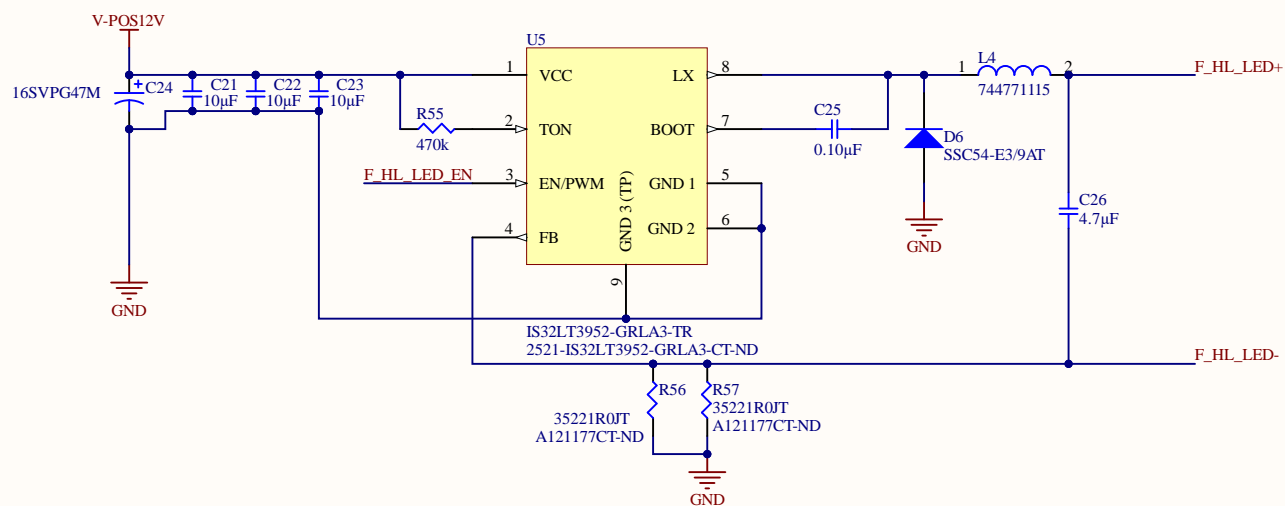


## Front left turn signal



Title <b>Front Blinker Drivers</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Alec Marshall	Revision: A		
Date: 10/16/2022	Time: 11:16:29 AM		
File: ext_light_interface_frontum.SchDoc		Sheet 1 of 1	

## Front headlight



Title: <b>Headlight Driver</b>		Badgerloop Electrical	
Engineer: <b>Alec Marshall</b>		133 Engineering Research Building	
Date: 10/16/2022		1500 Engineering Drive	
Time: 11:16:29 AM		Madison, WI 53706	
File: <a href="#">ext_light_interface_frontheadlight.SchDoc</a>		Revision: <b>A</b>	
		Sheet 1 of 1	

**BADGER**  
**LOOP**



DRIVER IO

SOLAR CAR 1

REV A


Title <i>Driver IO</i>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer:	Revision:		
Date: 10/16/2022	Time: 11:16:29 AM		
File: driver_io.SchDoc		Sheet 1 of 2	

# BOARD TEMPLATE

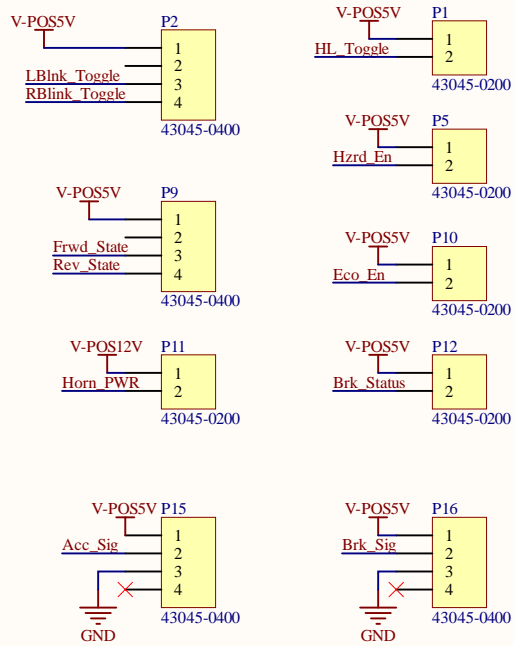
## SOLAR CAR 2021

### REV 1

# DO NOT EDIT

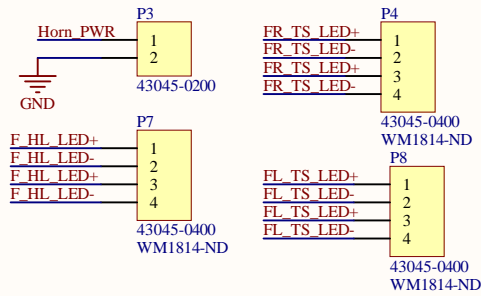
Title <b>TEMPLATE PCB COVER</b>			Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer:		Revision:		
Date: 10/16/2022	Time: 11:16:30 AM	Sheet 1 of 2		
File: cover.SchDoc				

## Driver Input Interface

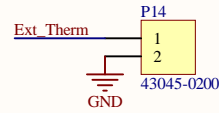


Revisit once specific switches are decided upon

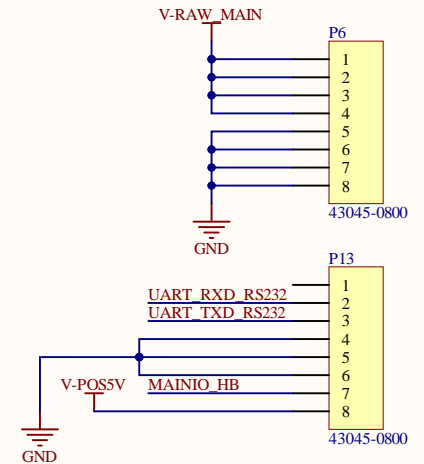
## Output Interface



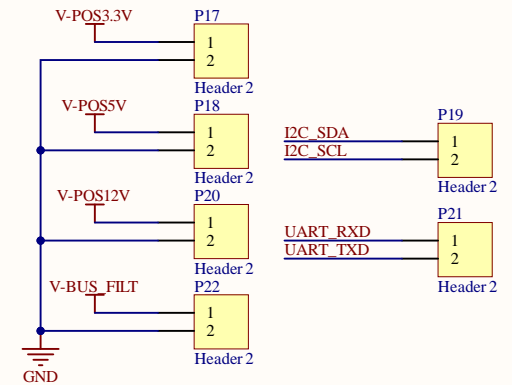
## External Thermistor




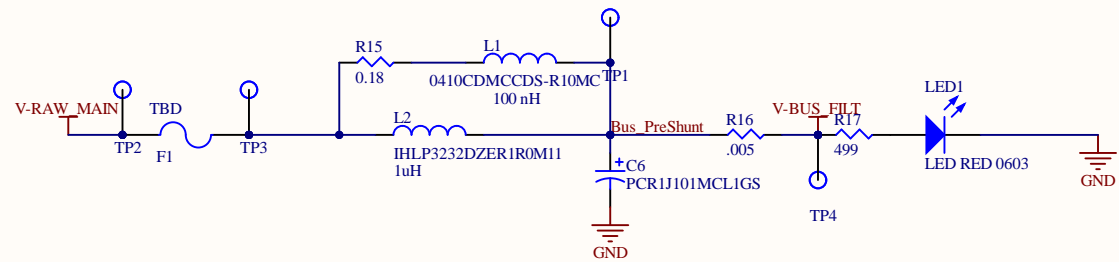
## Main IO Interface




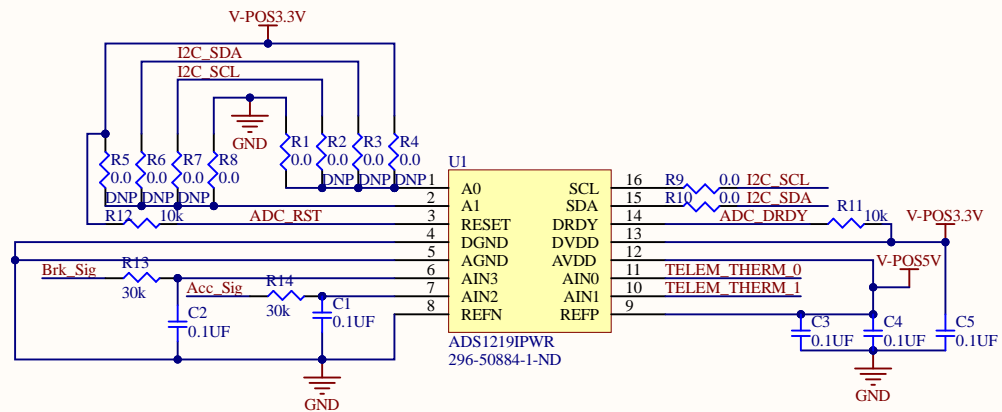
## Debug Headers



Title <b>Connectors</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: McGregor Farah, Olivia D'Souza	Revision: A		
Date: 10/16/2022	Time: 11:16:30 AM		
File: connectors.SchDoc		Sheet 1 of 1	



Title <b>Bus Filter</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Marton Bocsi, McGregor Farah	Revision: A		
Date: 10/16/2022	Time: 11:16:30 AM		
File: bus_filter.SchDoc	Sheet 1 of 1		



Title <b>ADC</b>		Badgerloop Electrical	
Engineer: <b>McGregor Farah</b>		133 Engineering Research Building	
Date: 10/16/2022		1500 Engineering Drive	
File: adc.SchDoc		Madison, WI 53706	
Revision: <b>A</b>		Sheet 1 of 1	

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C

D

D

Title *			
Engineer: *		Revision:*	
Date: 10/16/2022	Time: 11:16:31 AM	Sheet2	of 2
File: Sheet1.SchDoc			

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