
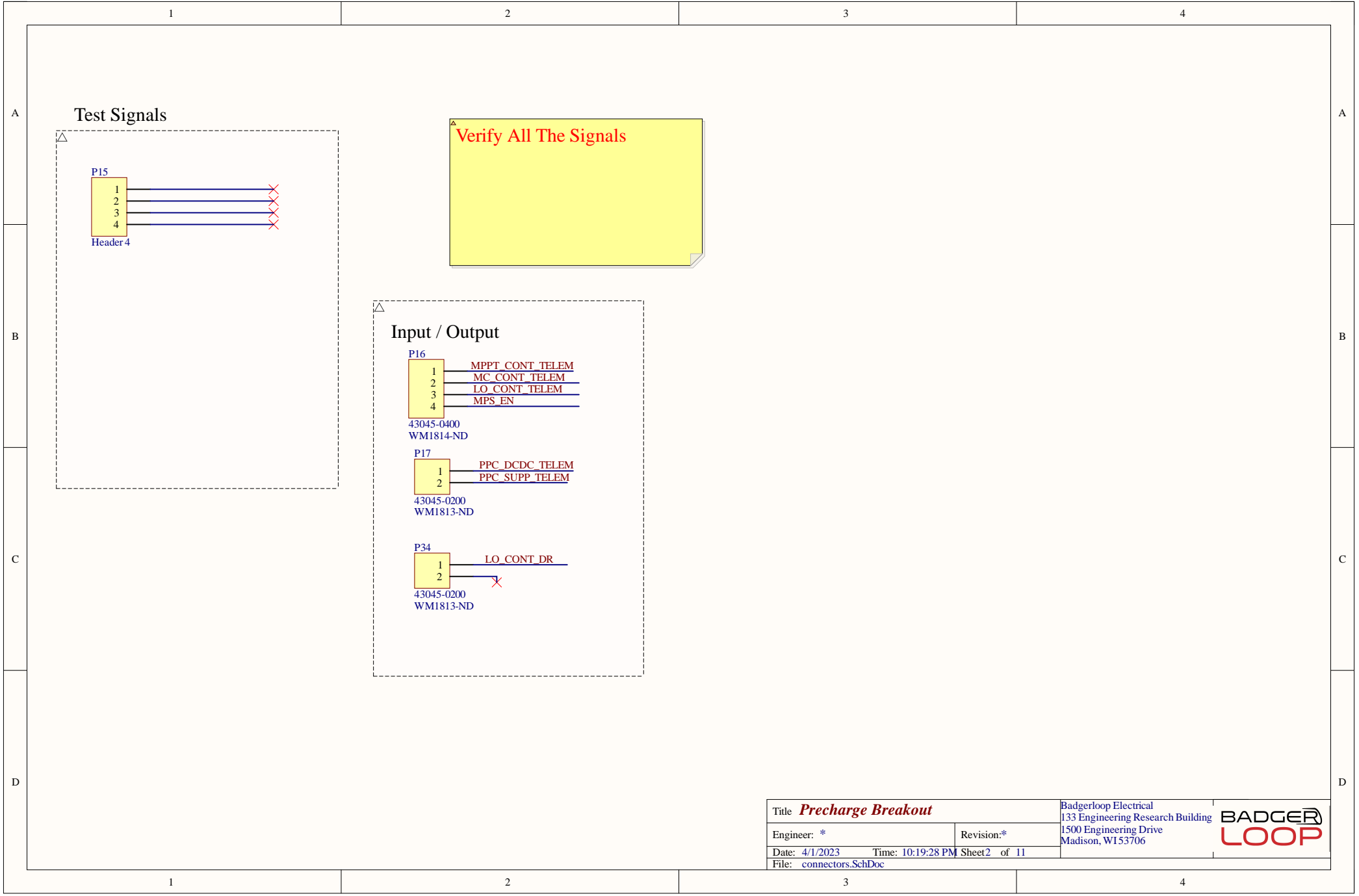
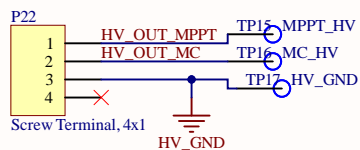
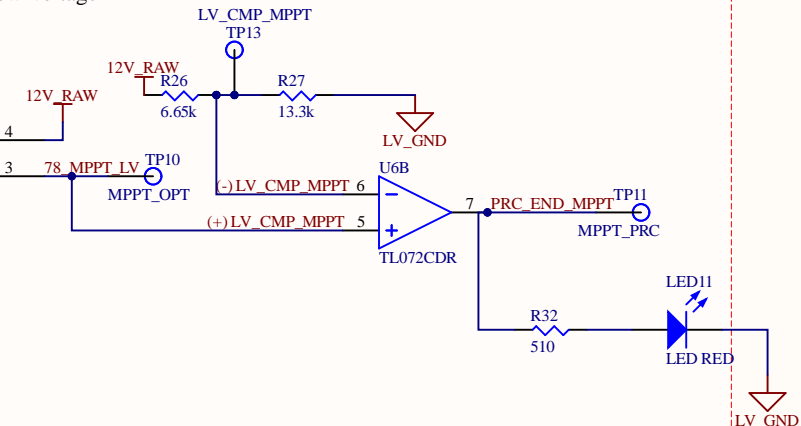
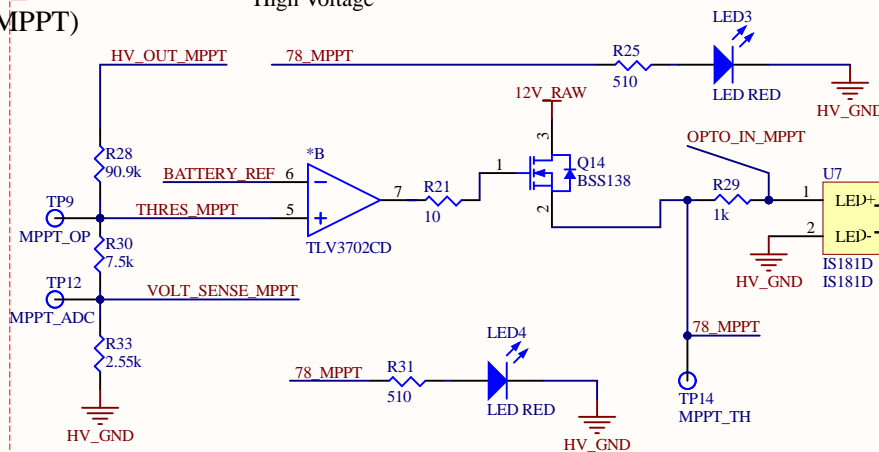
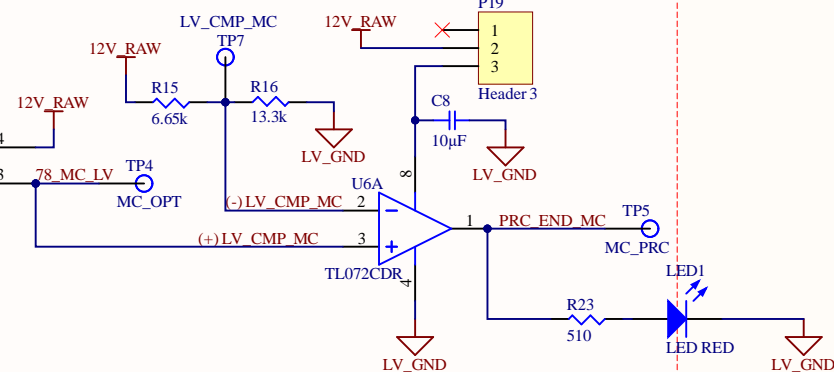
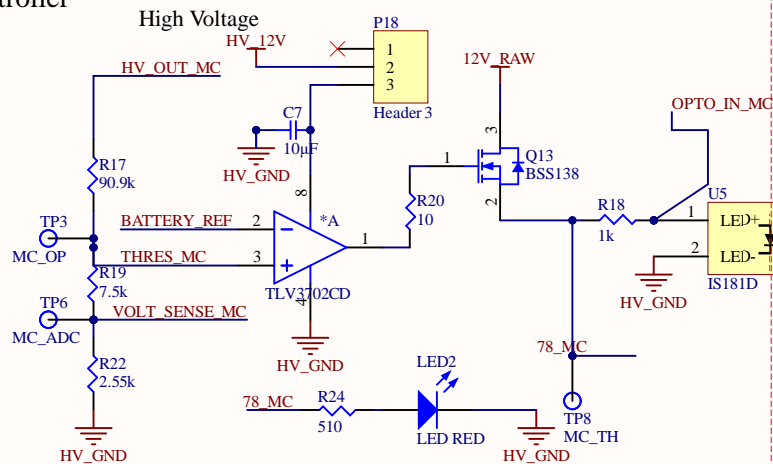



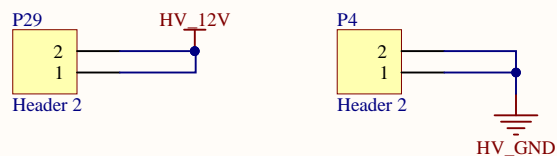
Title <i>Precharge Breakout</i>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706 
Engineer: *	Revision: 1	
Date: 4/1/2023	Time: 10:19:28 PM	
File: digital.SchDoc		



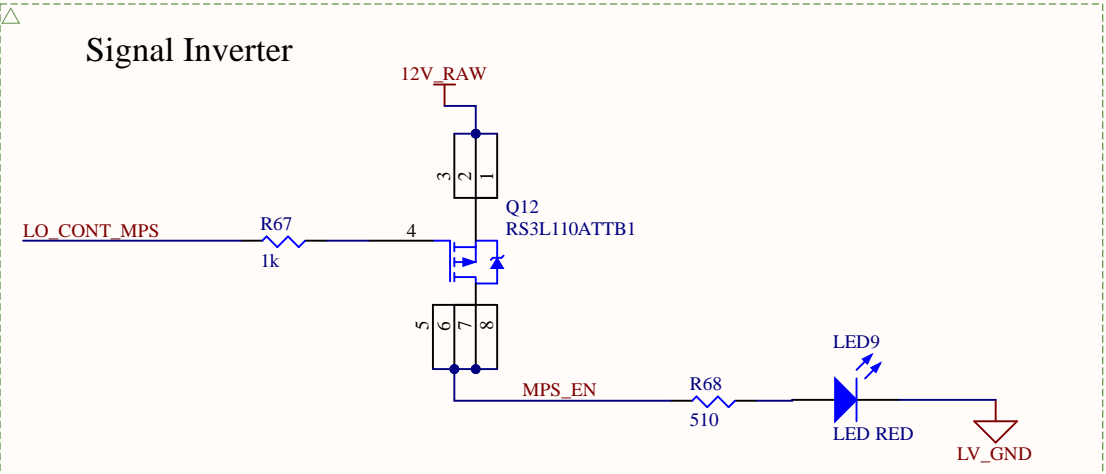


Title: <i>Precharge Breakout</i>		
Engineer: *	Revision: 1	
Date: 4/1/2023	Time: 10:19:29 PM	
File: voltage_sense.SchDoc		

Debug Header



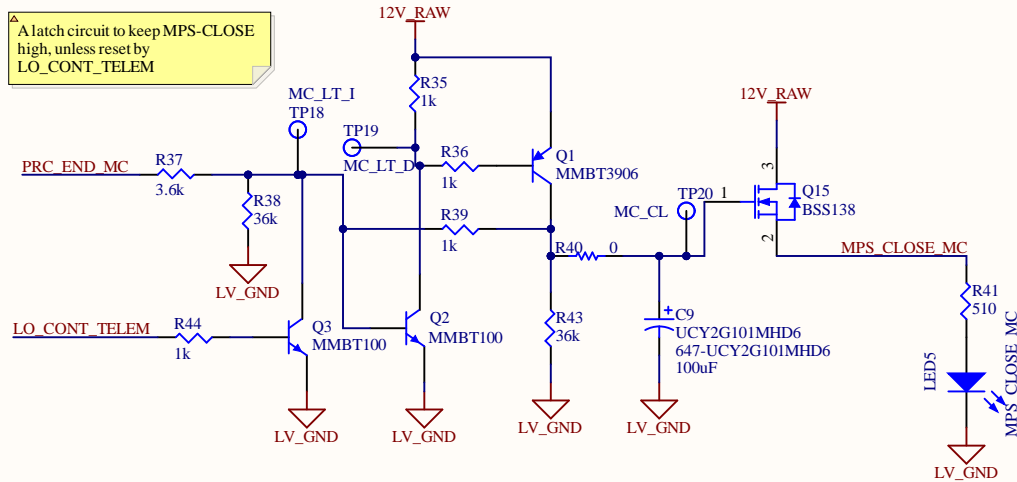
Title		
Size A	Number	Revision
Date:	4/01/2023	Sheet of
File:	C:\Users\...\12V dc-dc converter.SchDoc	Drawn By:



Title		
Size	Number	Revision
A		
Date:	4/01/2023	Sheet of
File:	C:\Users\...\inverter.SchDoc	Drawn By:

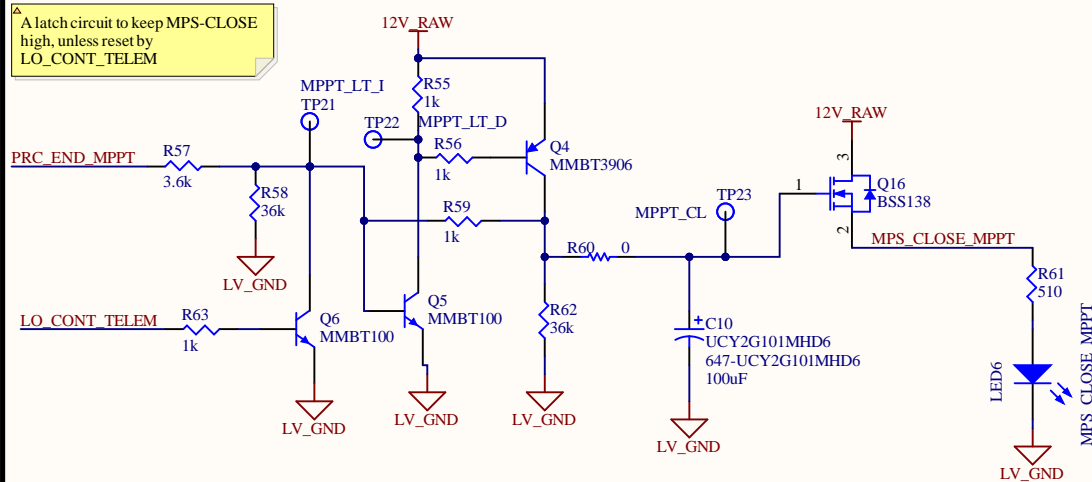
Option #1

Motor Controller



△ Add common drain amplifier at the output of the latch??

Solar Array PCB (MPPT)



Title **Precharge Breakout**

Engineer: *

Date: 4/1/2023
File: latch.SchDoc

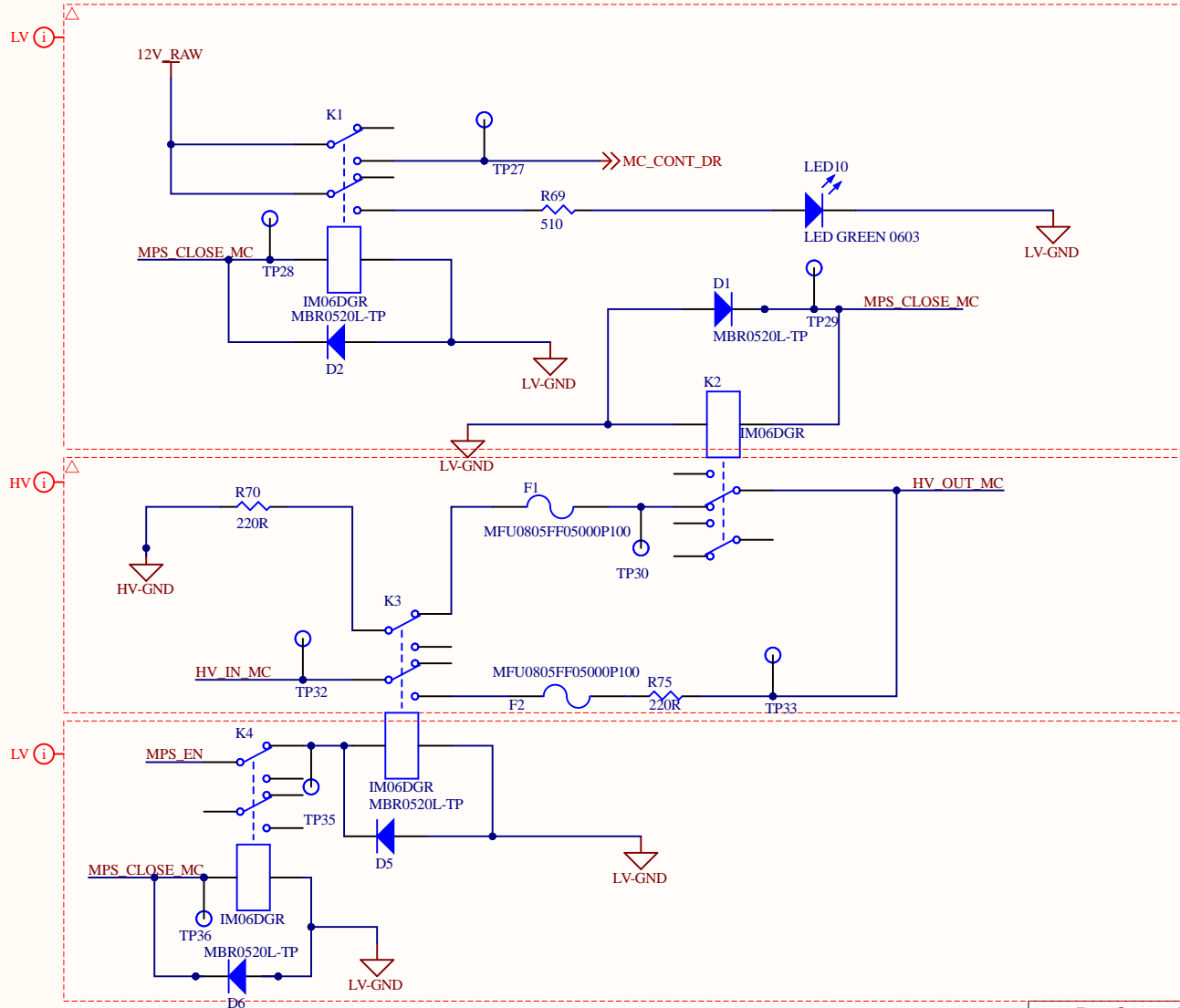
Revision:*

Time: 10:19:30 PM Sheet 6 of 11

Badgerloop Electrical
133 Engineering Research Building
1500 Engineering Drive
Madison, WI 53706

**BADGER
LOOP**

Motor Controller Precharge Relays



Title **Precharge Relays**

Engineer: *

Date: 4/1/2023

File: motor_controller_relays.SchDoc

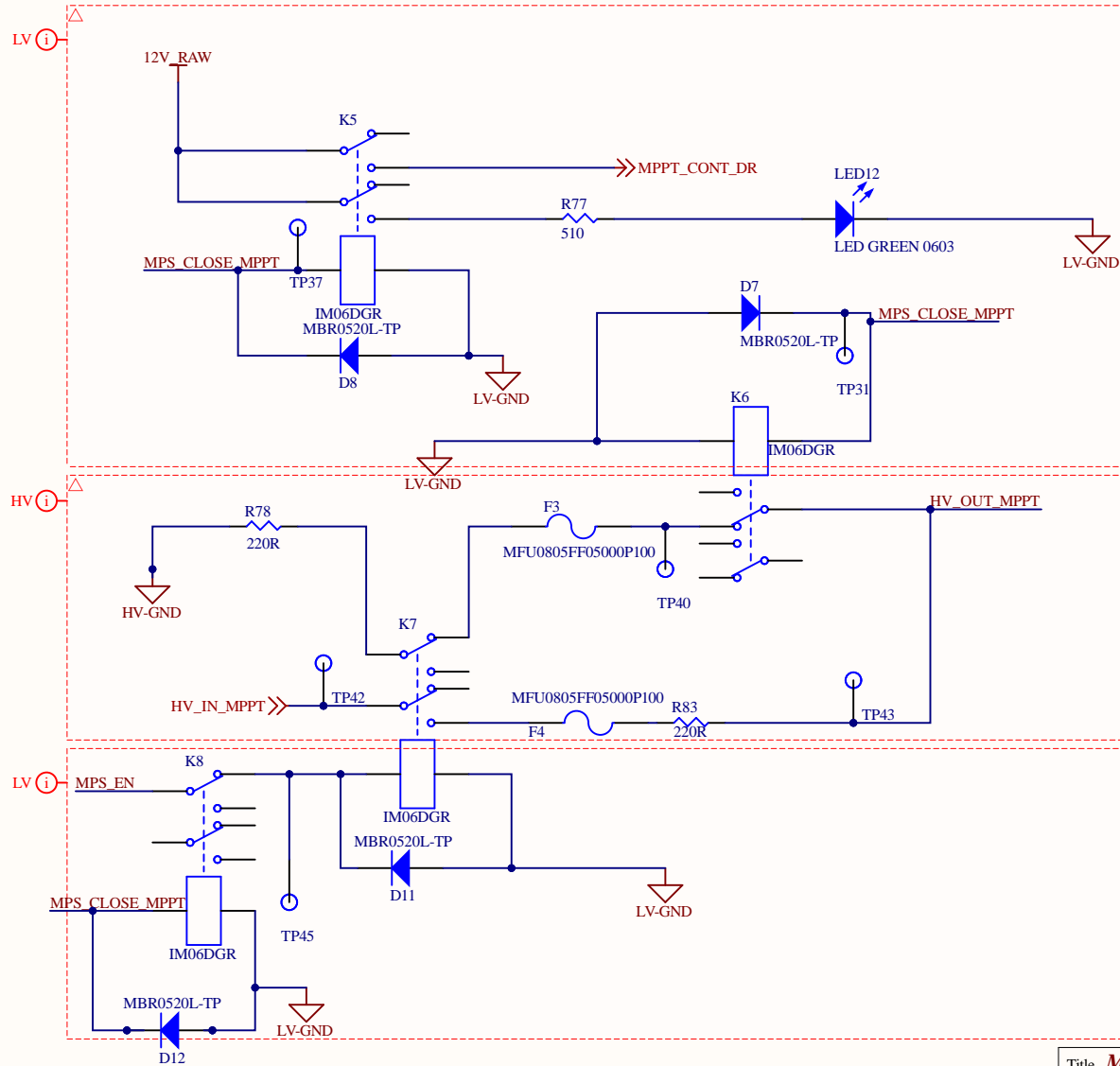
Revision:*

Time: 10:19:31 PM Sheet 7 of 11

Badgerloop Electrical
133 Engineering Research Building
1500 Engineering Drive
Madison, WI 53706

**BADGER
LOOP**

MPPT Precharge Relays



Title **MPPT Relays**

Engineer: *

Date: 4/1/2023

File: mppt_relays.SchDoc

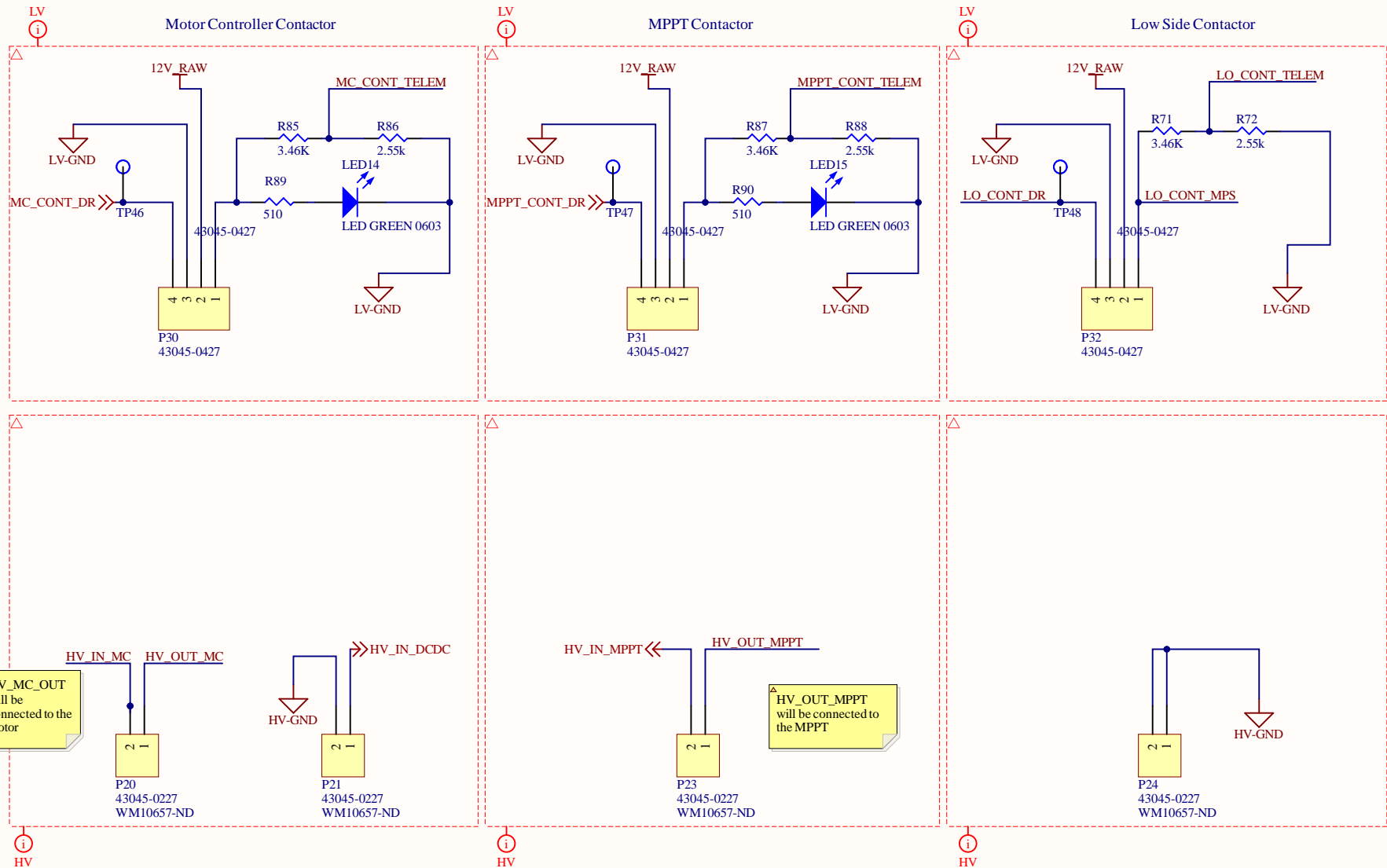
Revision:*


Time: 10:19:32 PM Sheet 8 of 11

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1500 Engineering Drive
Madison, WI 53706

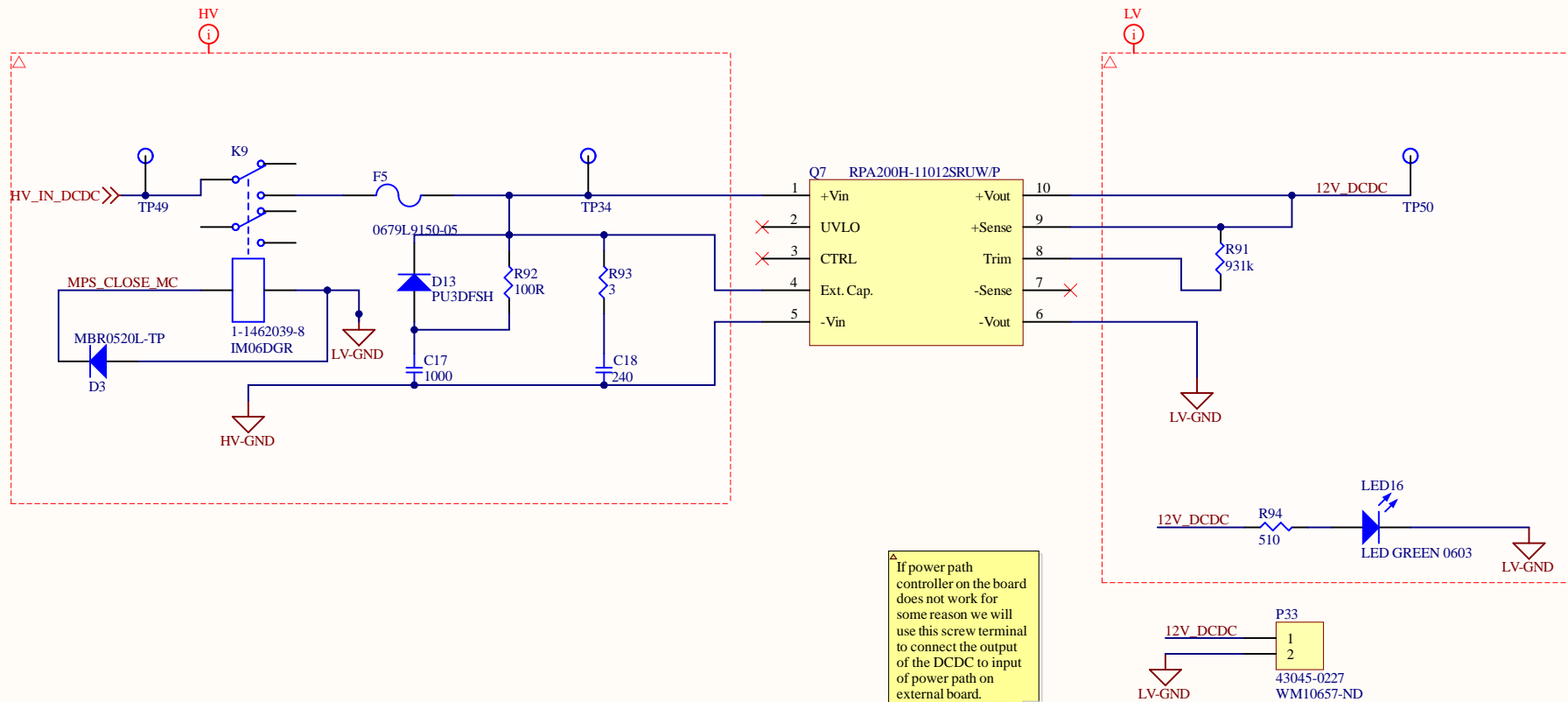
**BADGER
LOOP**


Main Power Switch



Title <i>Main Power Switch</i>		
Engineer: *	Revision:*	
Date: 4/1/2023	Time: 10:19:32 PM Sheet9 of 11	
File: main_power_switch.SchDoc		

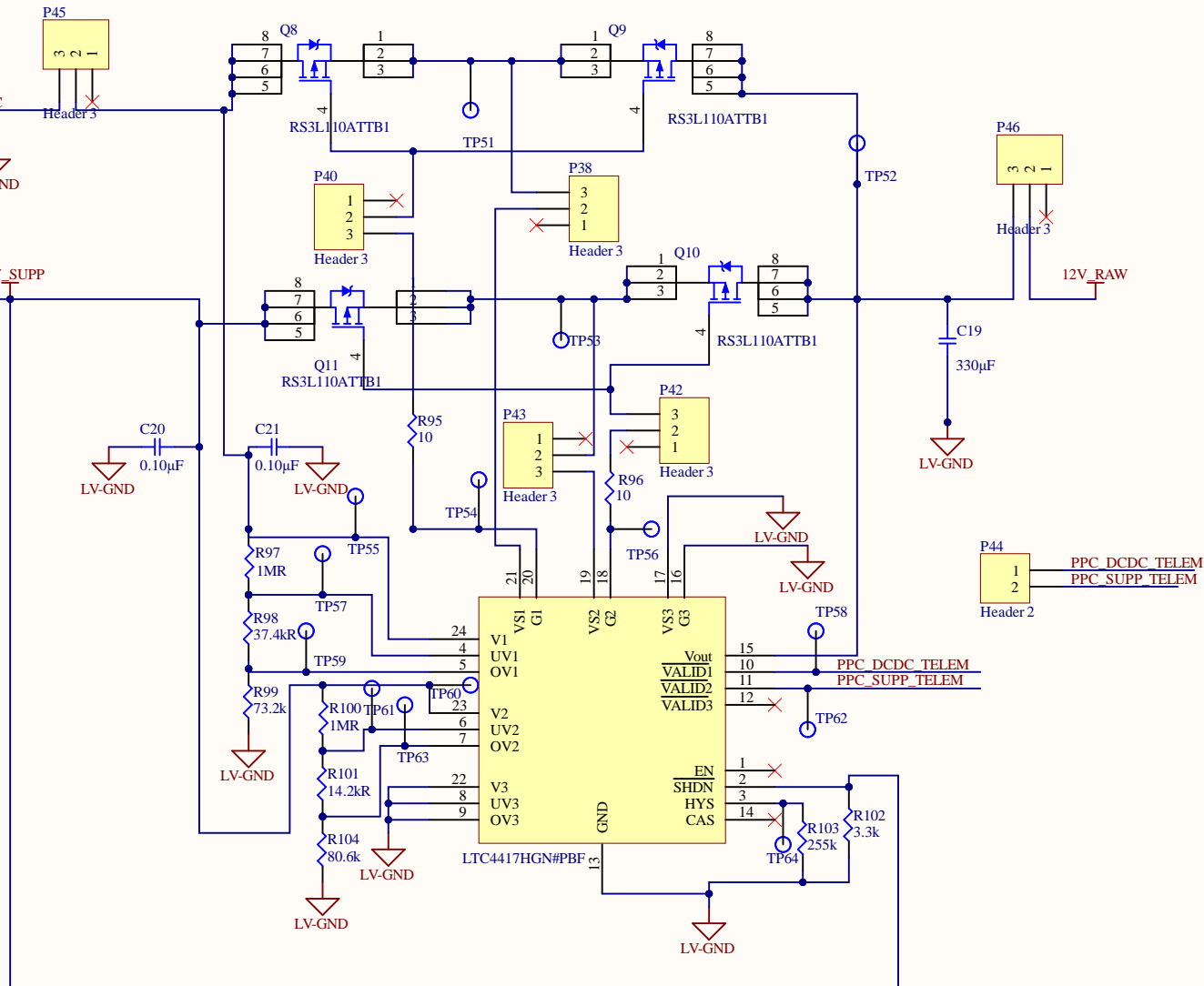
DC-DC Converter



Title *		
Engineer: *	Revision:*	
Date: 4/1/2023	Time: 10:19:33 PM	
File: dc_dc_converter.SchDoc		

Power Controller

If external power path controller is used and the one on the board is not working, disconnect the power path controller on this board removing pin45.



Title Power Path Controller	
Engineer: *	Revision:*
Date: 4/1/2023	Time: 10:19:34 PM Sheet 11 of 11
File: powerpath_controller.SchDoc	

**BADGER
LOOP**

