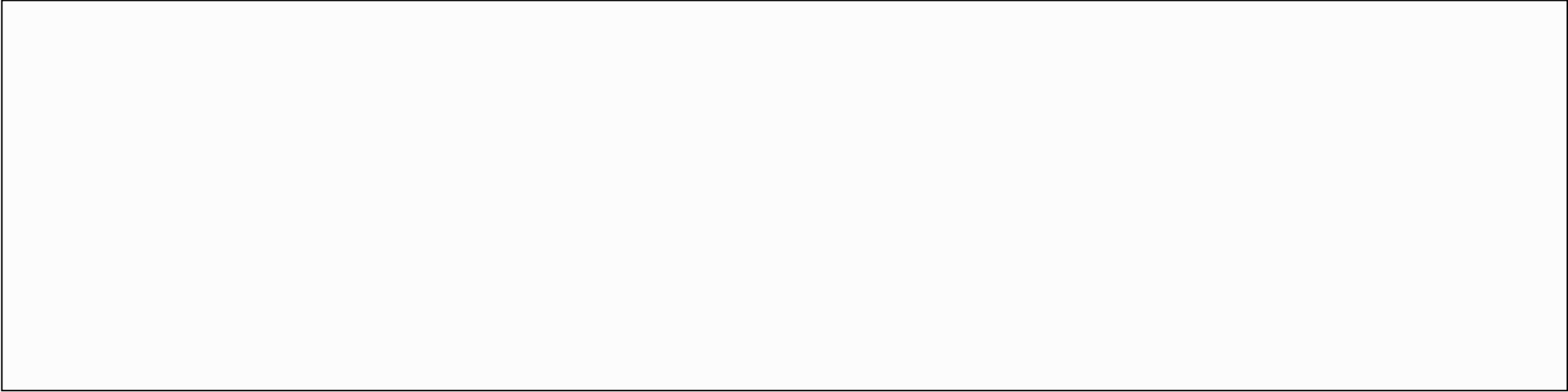


16V External Supply, 3A

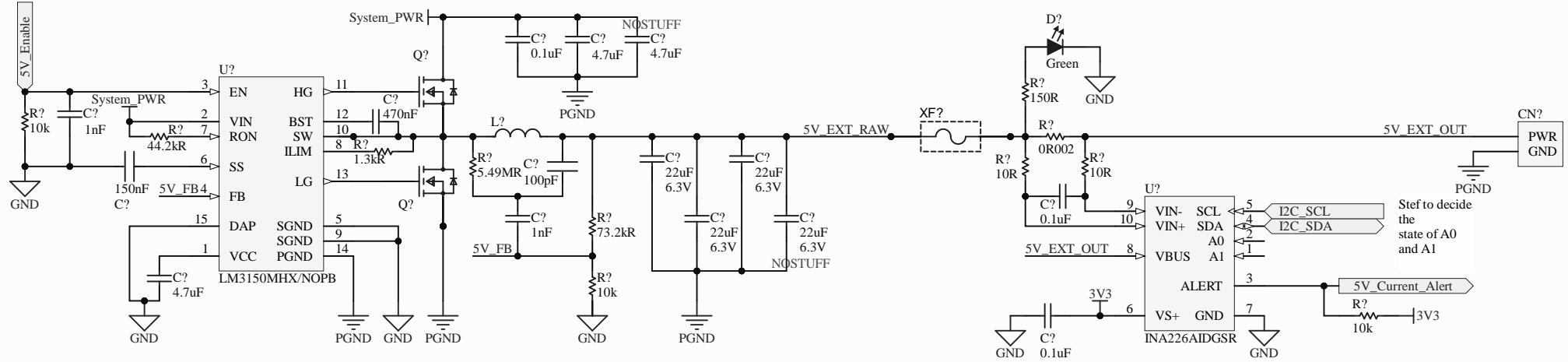


VBatt External Supply, 60A

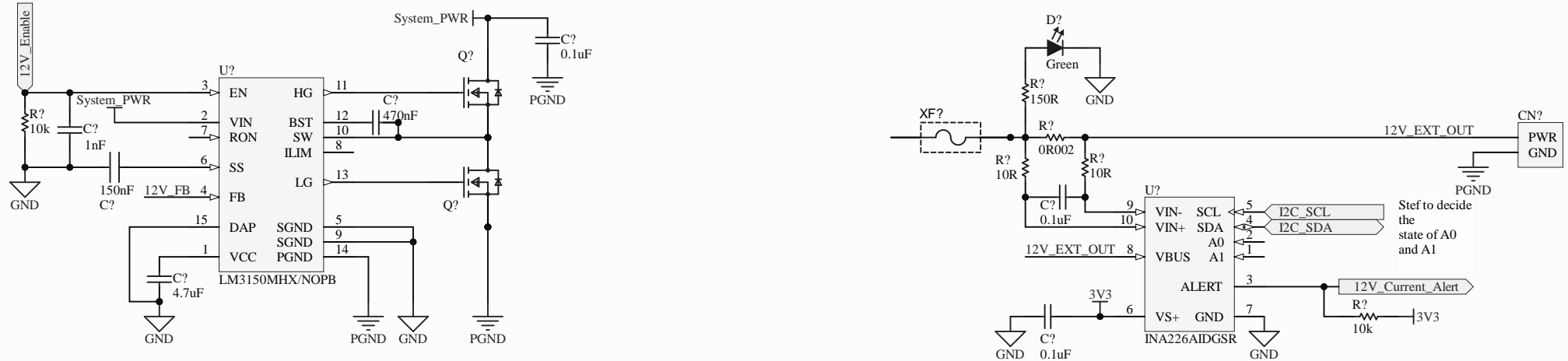


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5V External Supply, 10A

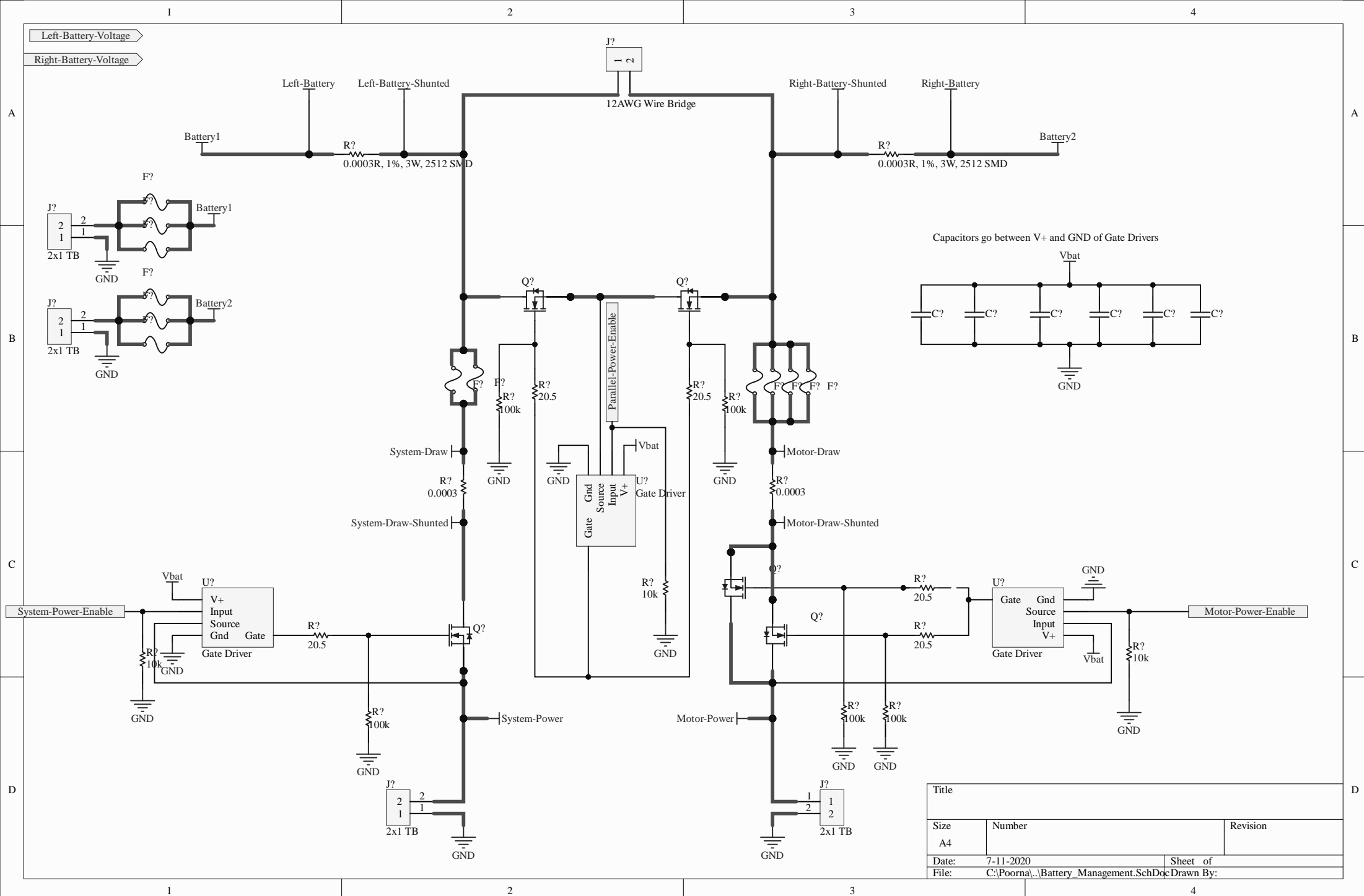


12V External Supply, 10A



FETs used in sim:
High Side: FDD8647L
Low Side: CSD18531Q5A

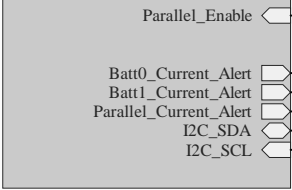
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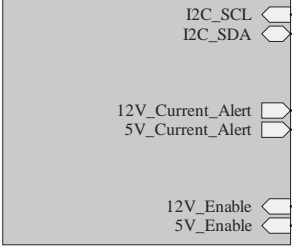
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A				
B				
C				
D				
	1	2	3	4

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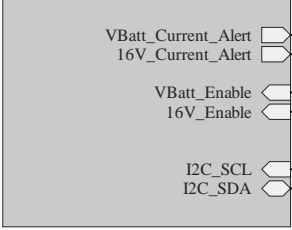
U_Battery_Management
Battery_Management.SchDoc



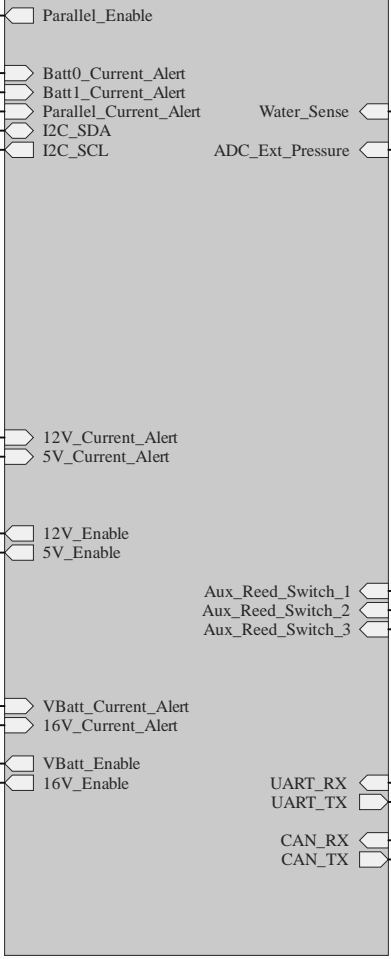
U_5V_12V_External
5V_12V_External.SchDoc



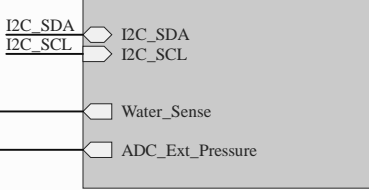
U_16V_VBatt_External
16V_VBatt_External.SchDoc



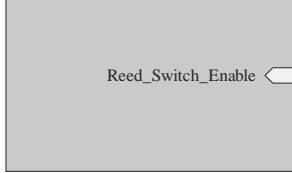
U_Micro
Micro.SchDoc



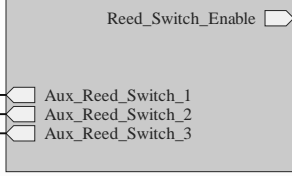
U_Sensors
Sensors.SchDoc



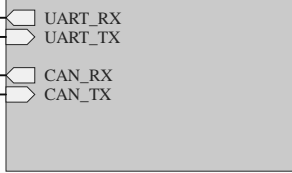
U_Power_Internal
Power_Internal.SchDoc



U_Reed_Switch
Reed_Switch.SchDoc



U_Communications
Communications.SchDoc

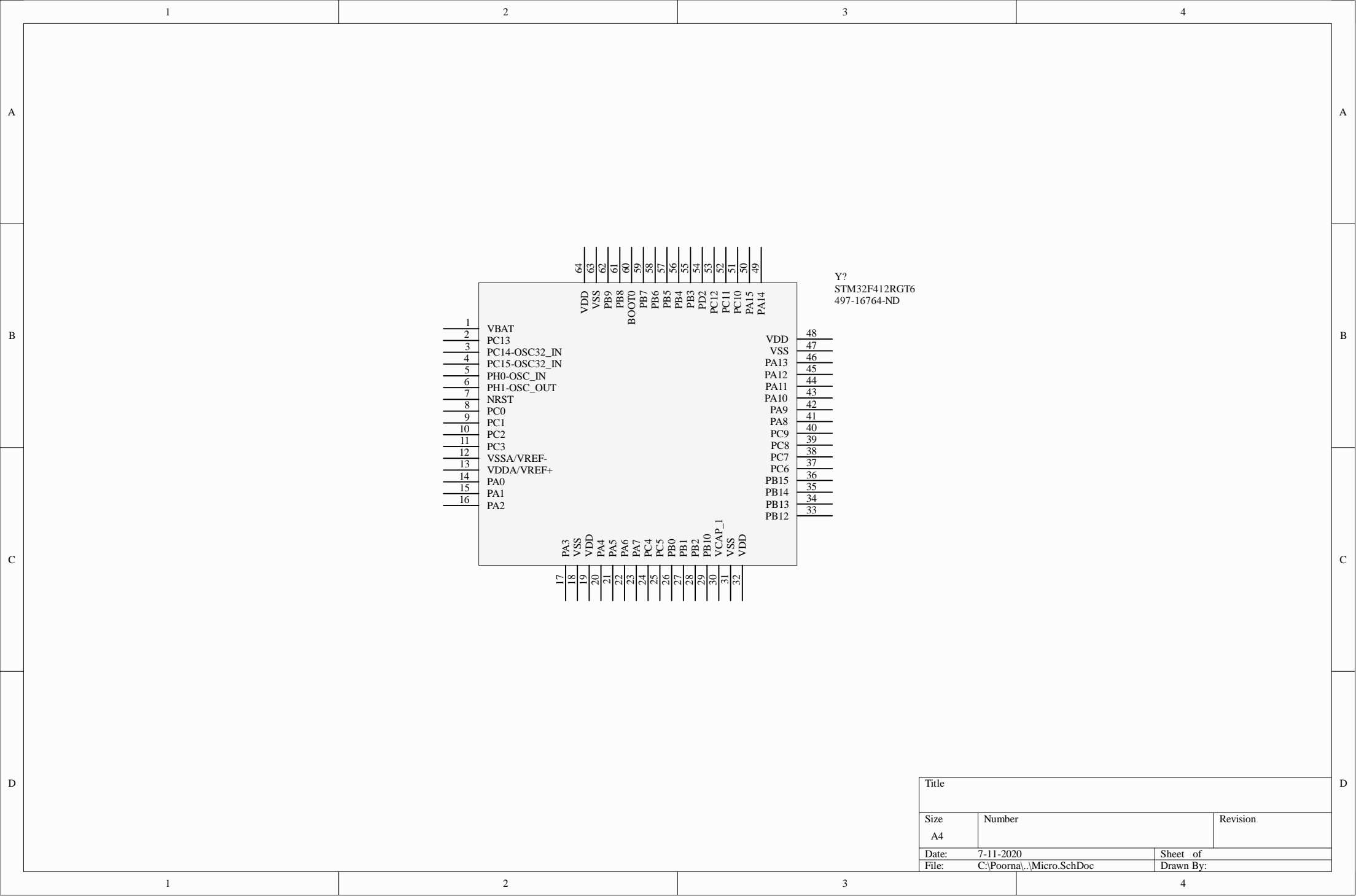


Need to add ports
for Batt cell
voltages

Available Power Nets



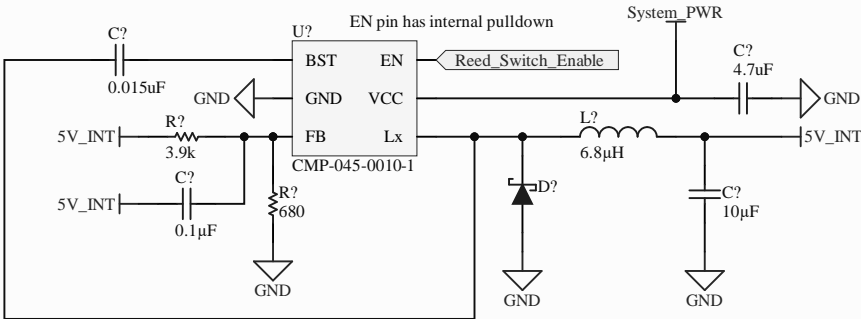
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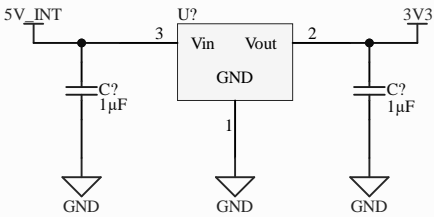
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5V Internal Supply, 500mA



B

3V3 Internal Supply, 250mA

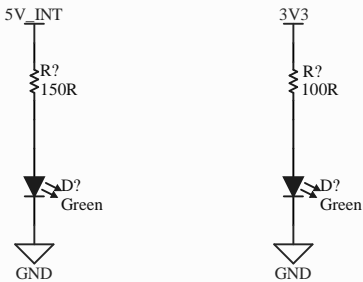


A

B

C

Status LEDs



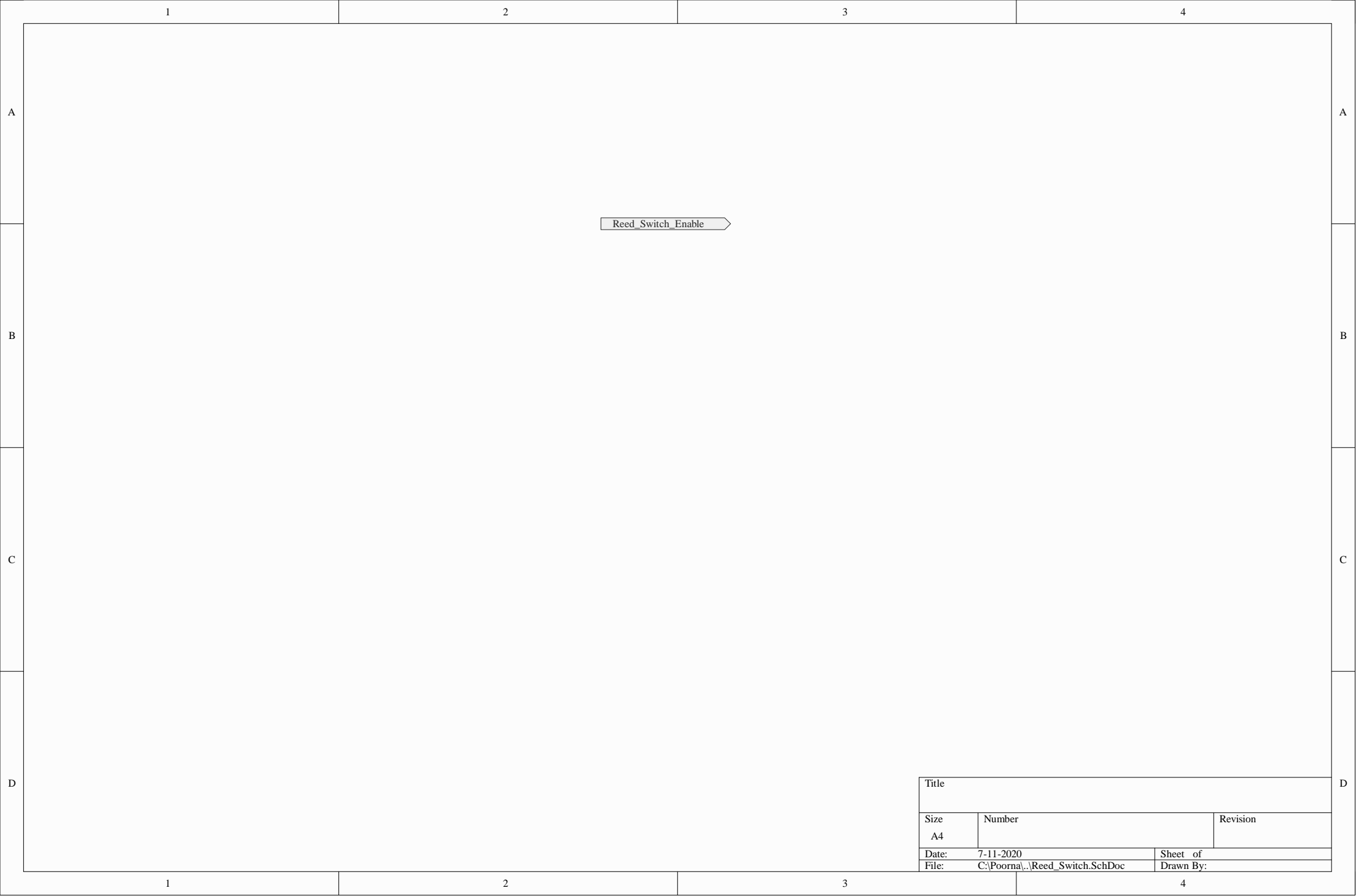
D

3V3 Requirements:
STM: 46mA
LEDs: 80mA (20mA x 4)
INA226: 0.5mA each

C

D

Title		
Size	Number	Revision
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Date:	7-11-2020	Sheet of
File:	C:\Poorna\..Power_Internal.SchDoc	Drawn By:



Title		
Size A4	Number	Revision
Date:	7-11-2020	Sheet of
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1

2

3

4

A

A

B

B

C

C

D

D

Title		
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2

3

4