

MOTOR BREAKOUT BOARD

Variant: [No Variations]

2/1/2022
Rev 02

DRAFT

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DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes.

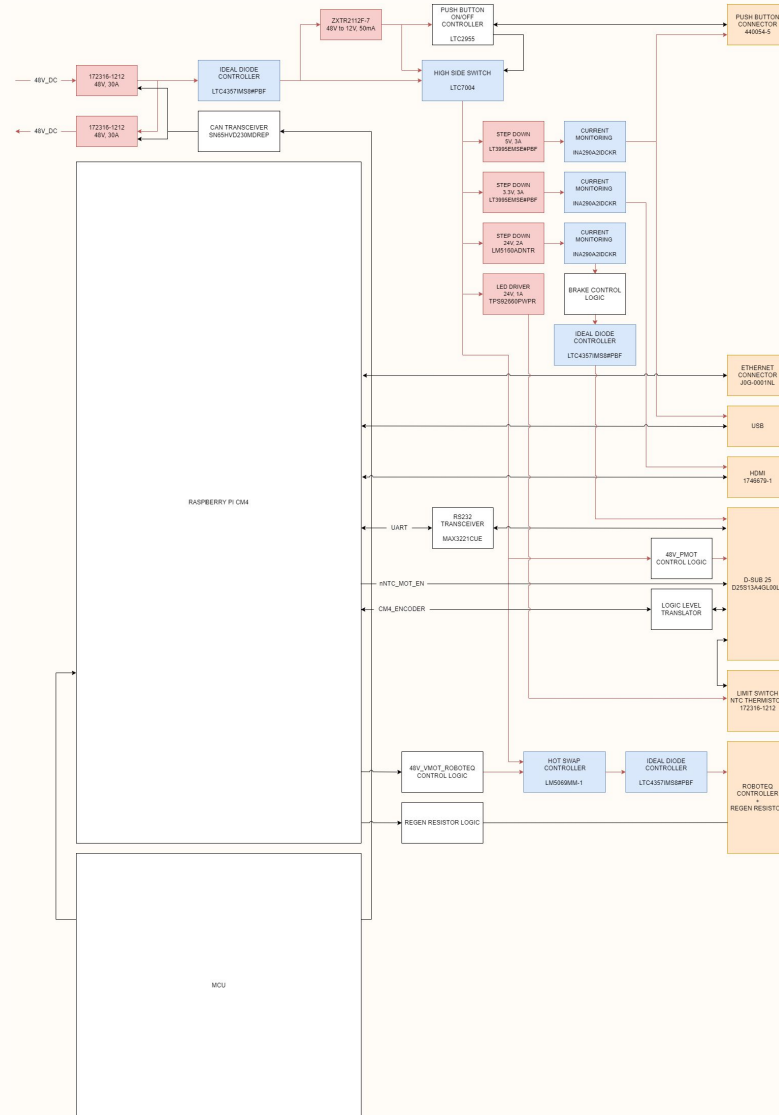
DESIGN NOTE:
Example text for critical
design notes.

DESIGN NOTE:
Example text for cautionary
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

Title Motor Breakout Board			BumbleBee Spaces 1004 Treat Ave San Francisco CA94110		
Size: Tabloid	Number: 00109-01	Revision: Rev 01			
Date: 2/1/2022	Time: 4:50:22 AM	Sheet 1 of 12			
Drawn By: Shyam R Thillainathan					

BLOCK DIAGRAM

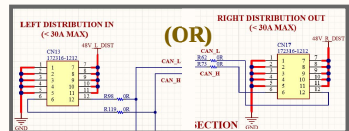


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Size:	Tabloid	Number:	00109-01	Revision:	Rev 01
Date:	2/1/2022	Time:	4:50:23 AM	Sheet	2 of 12
Drawn By: Shyam R Thillainathan					



POWER SUPPLY SECTION

Input Power
Input Power is 48V at 20A from Meanwell power supplies (48V_VIN, 48V_Raw, 48V_SYS)



IDEAL DIODE

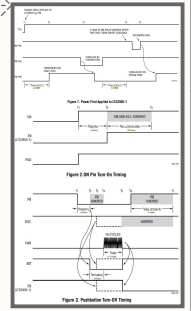
HIGH SIDE SWITCH

POWER BUTTON ON/OFF SECTION

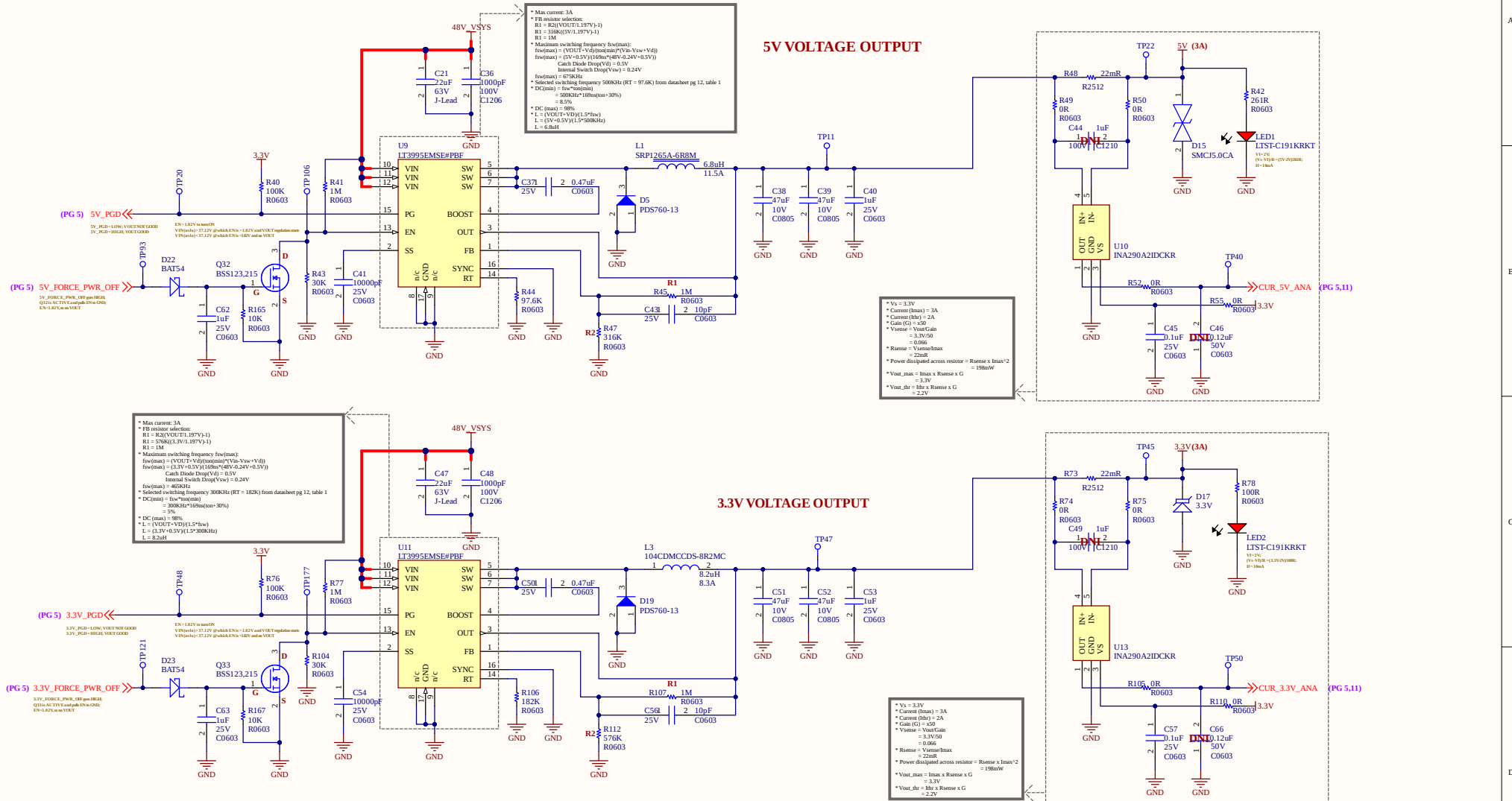
STATUS INDICATOR

PANEL STATUS LED

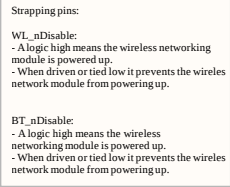
Title Motor Breakout Board			BumbleBee Spaces 1004 Treat Ave San Francisco CA 94110	
Size: Tabloid	Number: 00109-01	Revision: Rev 01		
Date: 2/1/2022	Time: 4:50:23 AM	Sheet 3 of 12		
Drawn By: Shyam R Thillainathan				



POWER SUPPLY SECTION



PI - CM4 SECTION

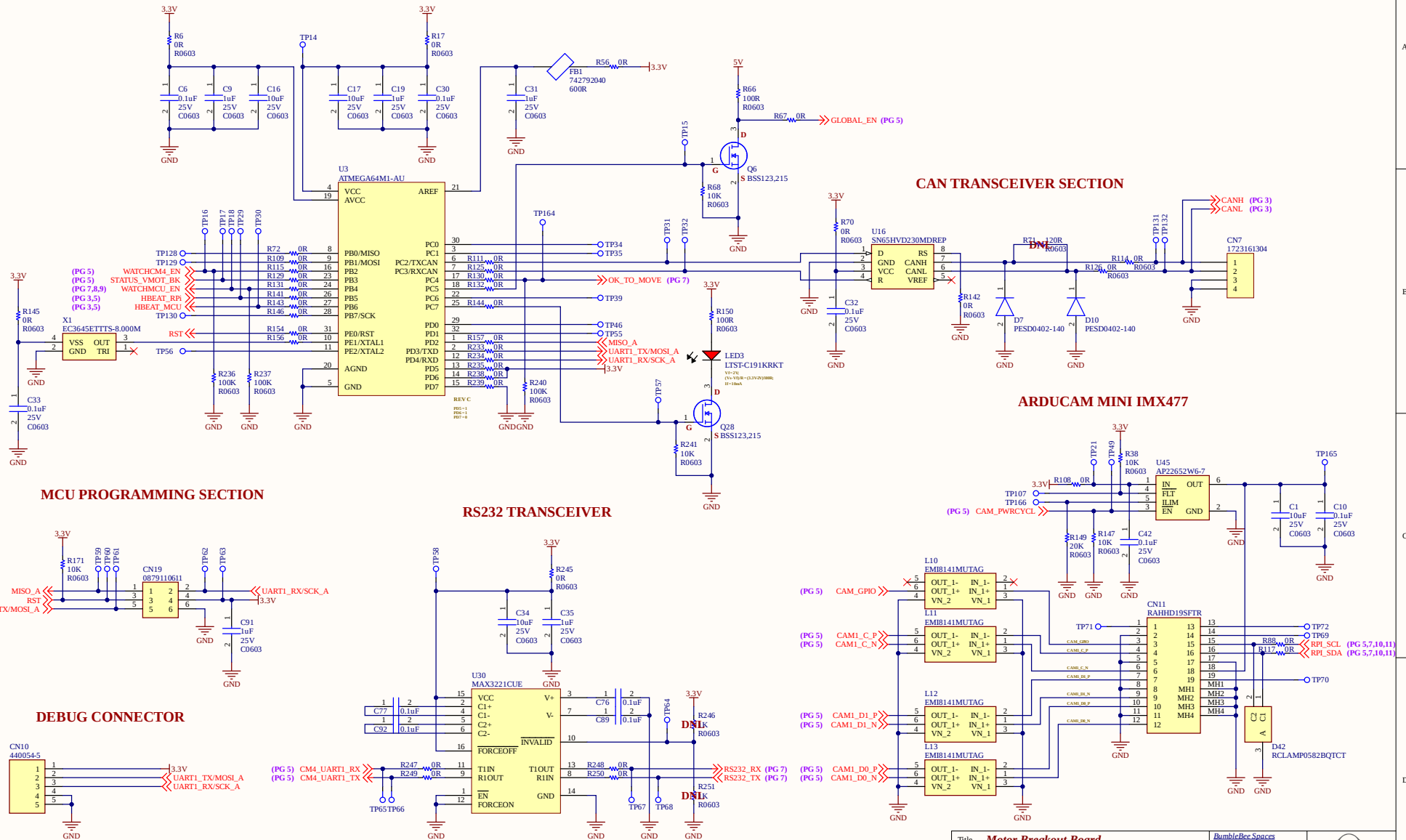


CM4_3.3V and CM4_1.8V are generated by RPi and not used on this board



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Drawn By: Shyam R Thillainathan				

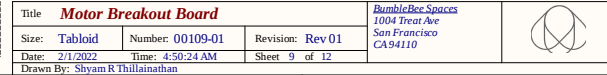
MCU SECTION



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Date: 2/1/2022	Time: 4:50:23 AM	Sheet 6 of 12		
Drawn By: Siyam R Thillainathan				

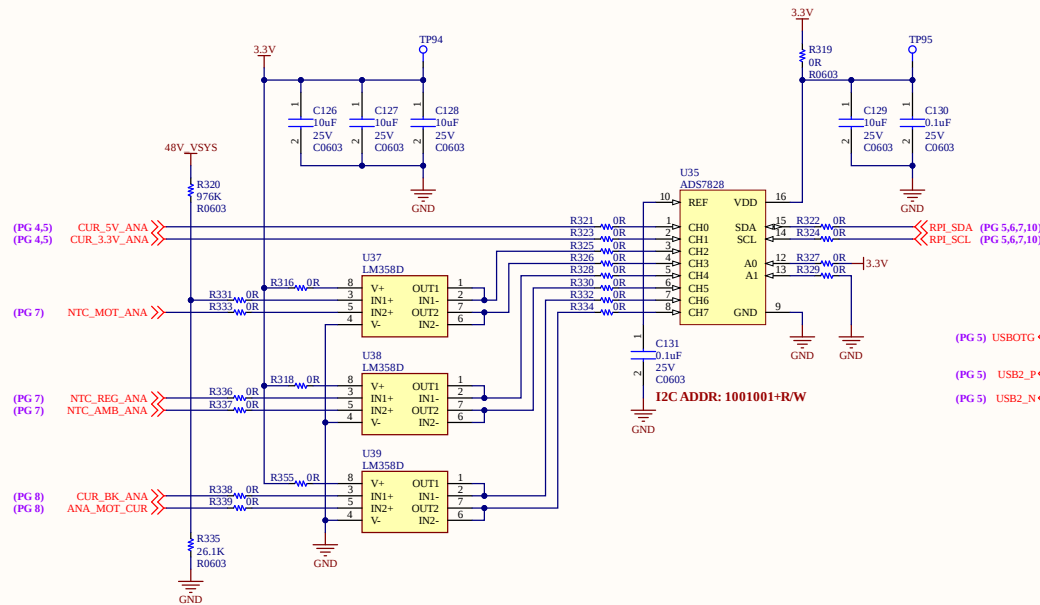
Title Motor Breakout Board			BumbleBee Spaces 1004 Treat Ave San Francisco CA 94110	
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Date: 2/1/2022	Time: 4:50:24 AM	Sheet 8 of 12		
Drawn By: Shyam R Thillainathan				

MOTOR BRAKE SECTION

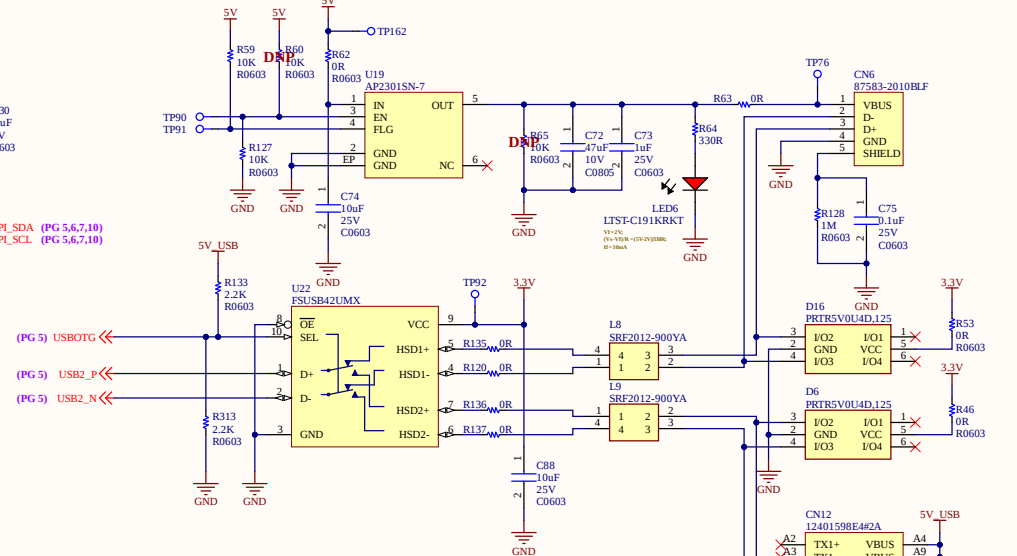


MISCELLANEOUS SECTION

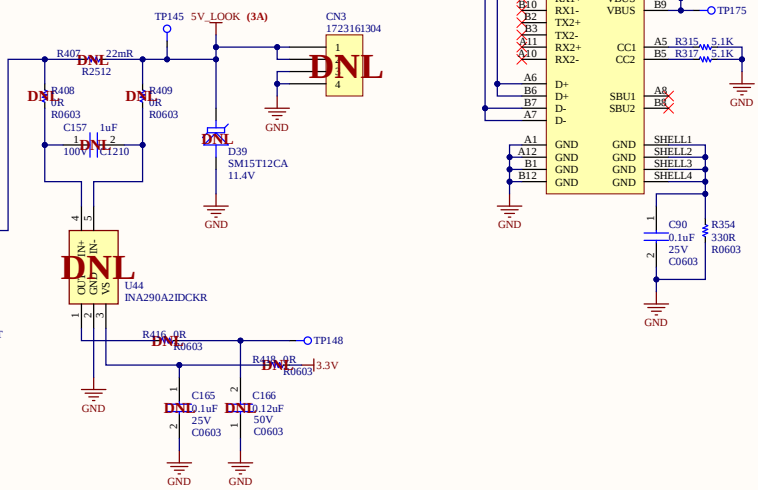
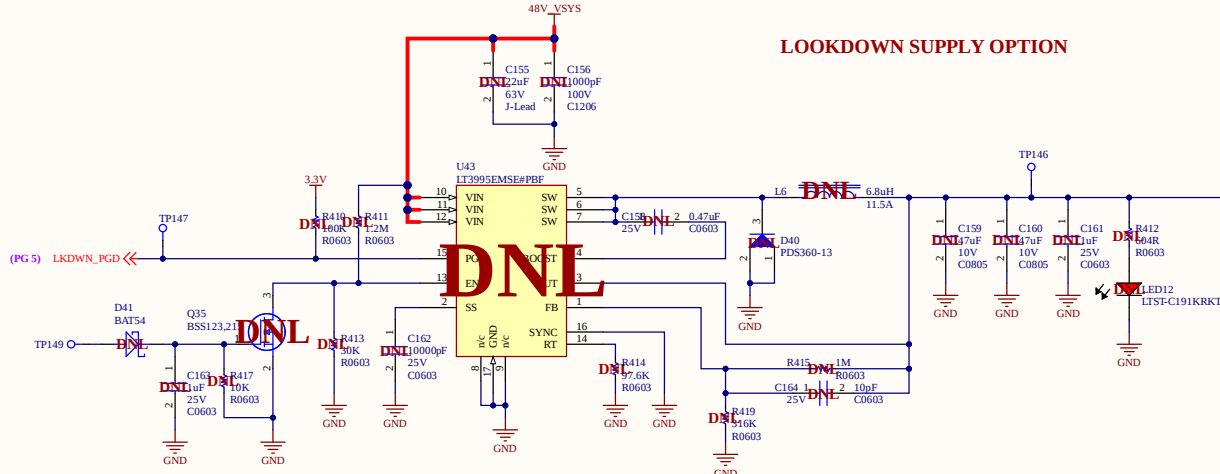
ADC TO RPi CM4



USB SECTION



LOOKDOWN SUPPLY OPTION



CHANGE HISTORY

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