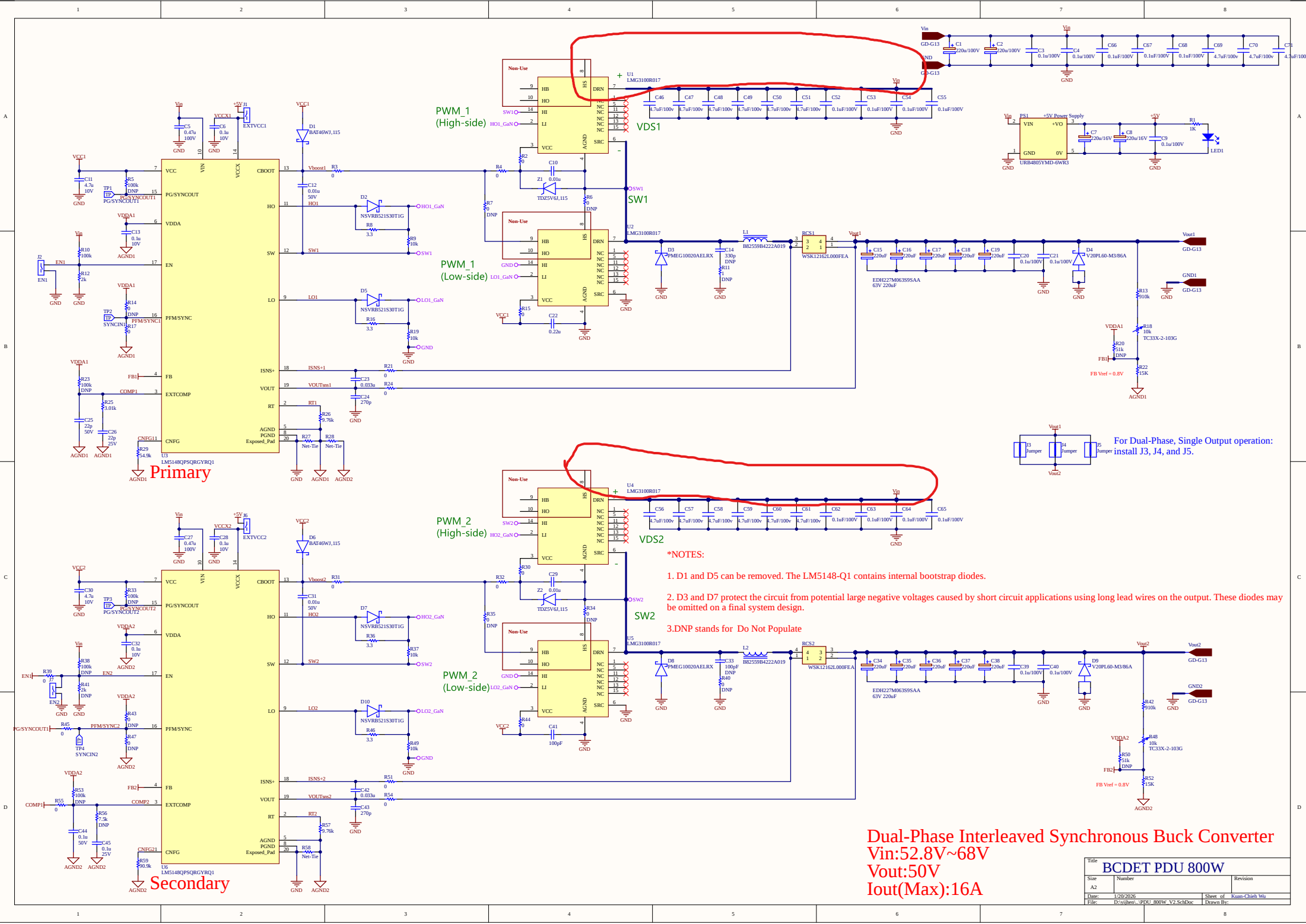




Primary

Secondary

PWM_1
(High-side)

PWM_1
(Low-side)

PWM_2
(High-side)

PWM_2
(Low-side)

*NOTES:

- 1. D1 and D5 can be removed. The LM5148-Q1 contains internal bootstrap diodes.
- 2. D3 and D7 protect the circuit from potential large negative voltages caused by short circuit applications using long lead wires on the output. These diodes may be omitted on a final system design.
- 3. DNP stands for Do Not Populate

For Dual-Phase, Single Output operation:
install J3, J4, and J5.

Dual-Phase Interleaved Synchronous Buck Converter
Vin:52.8V~68V
Vout:50V
Iout(Max):16A

Title			BCDET PDU 800W	
Size	A2	Number		
Date	1/20/2024	Revision		
File	D:\2024\0206_PDU_800W_V2_SchDoc	Sheet of	Kuan-Chieh Wu	
		Drawing By	Diana Bv	