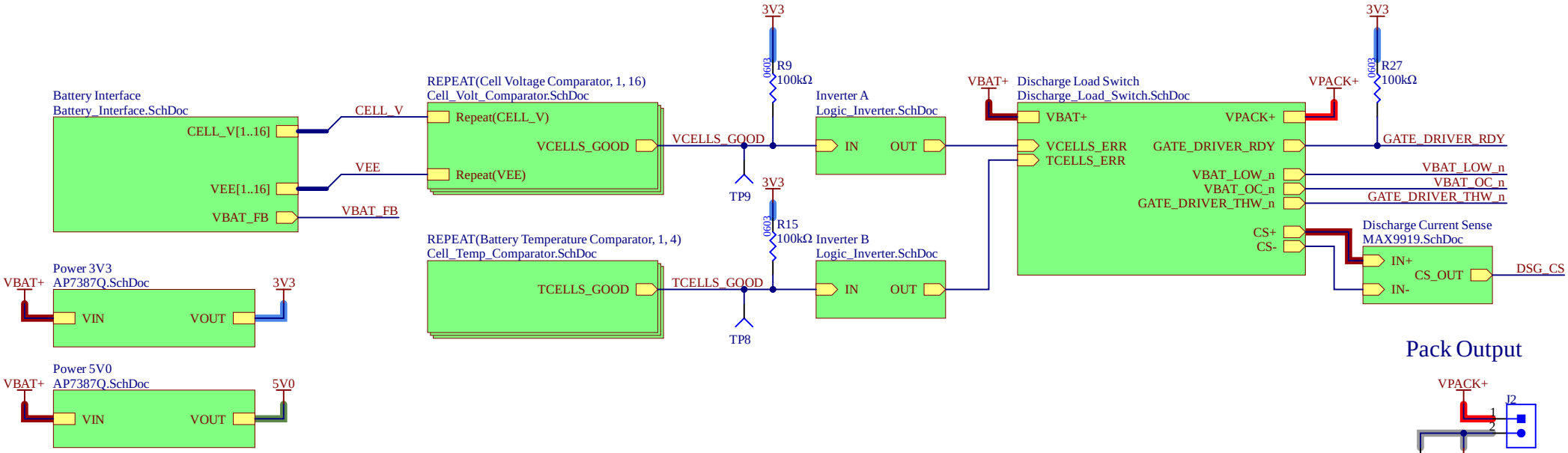
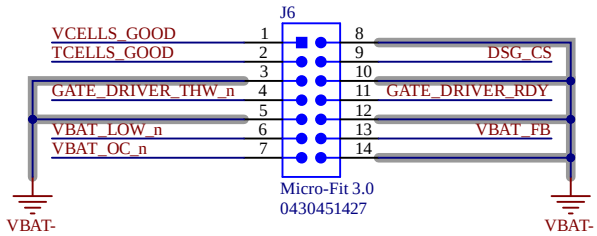


Pack Output

Controller Interface



Mounting Holes

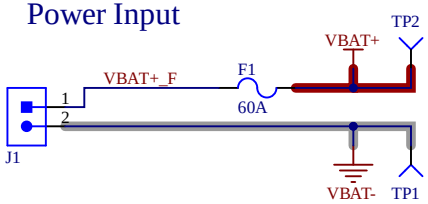
MH1 MH2

MH3 MH4

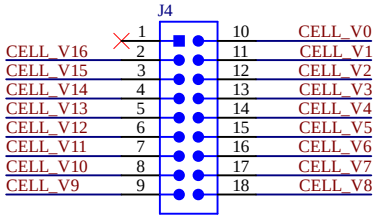
University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		REV 1.0
PROJECT Battery Protector.PrjPcb, [No Variations]		
DOCUMENT Top.SchDoc		MODIFIED 2023-03-13
ENGINEER Farris Matar	REVIEWER *	SHEET 1 OF 8

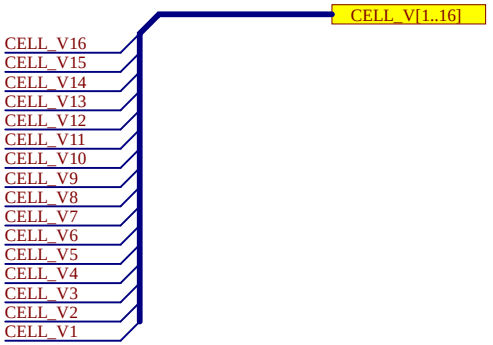
Battery specs:
- 16s1p 20Ah LTO battery
- 1.5V - 2.7V cell voltage range, 2.3V nominal

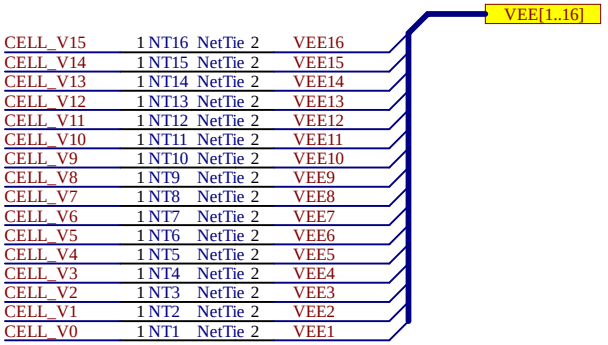
Power Input



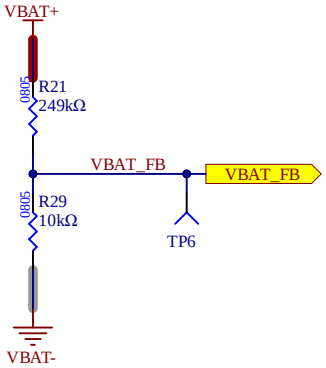
Cell Sensing Inputs



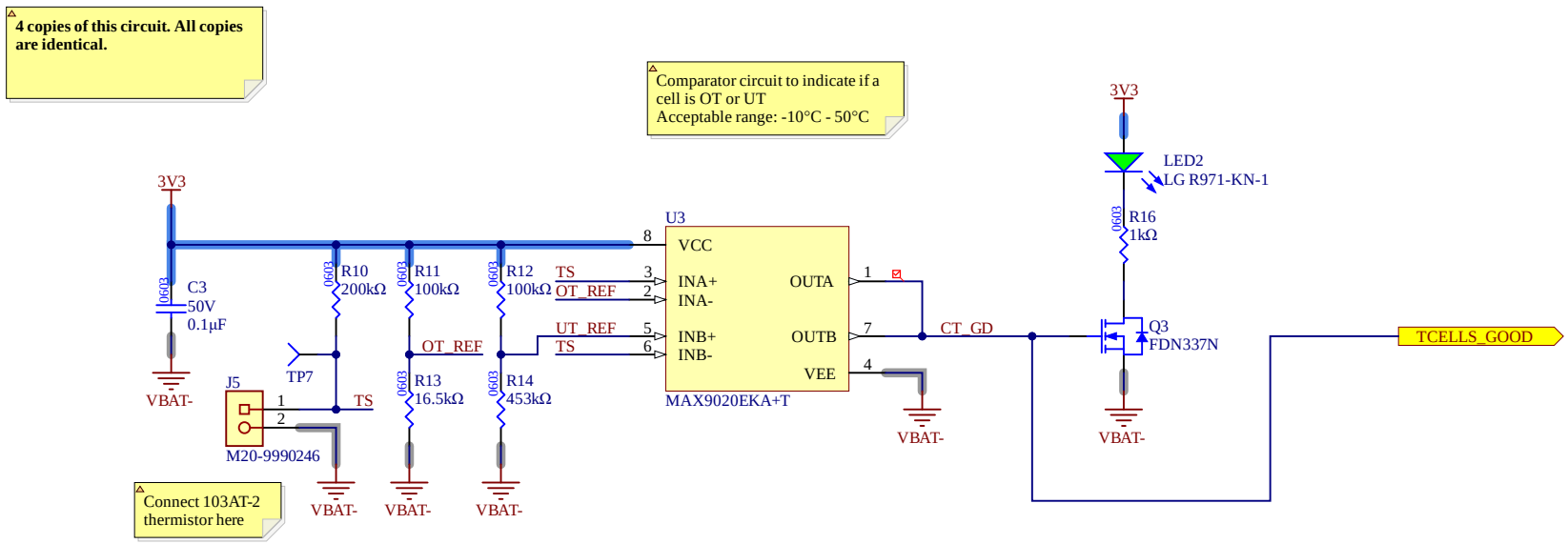




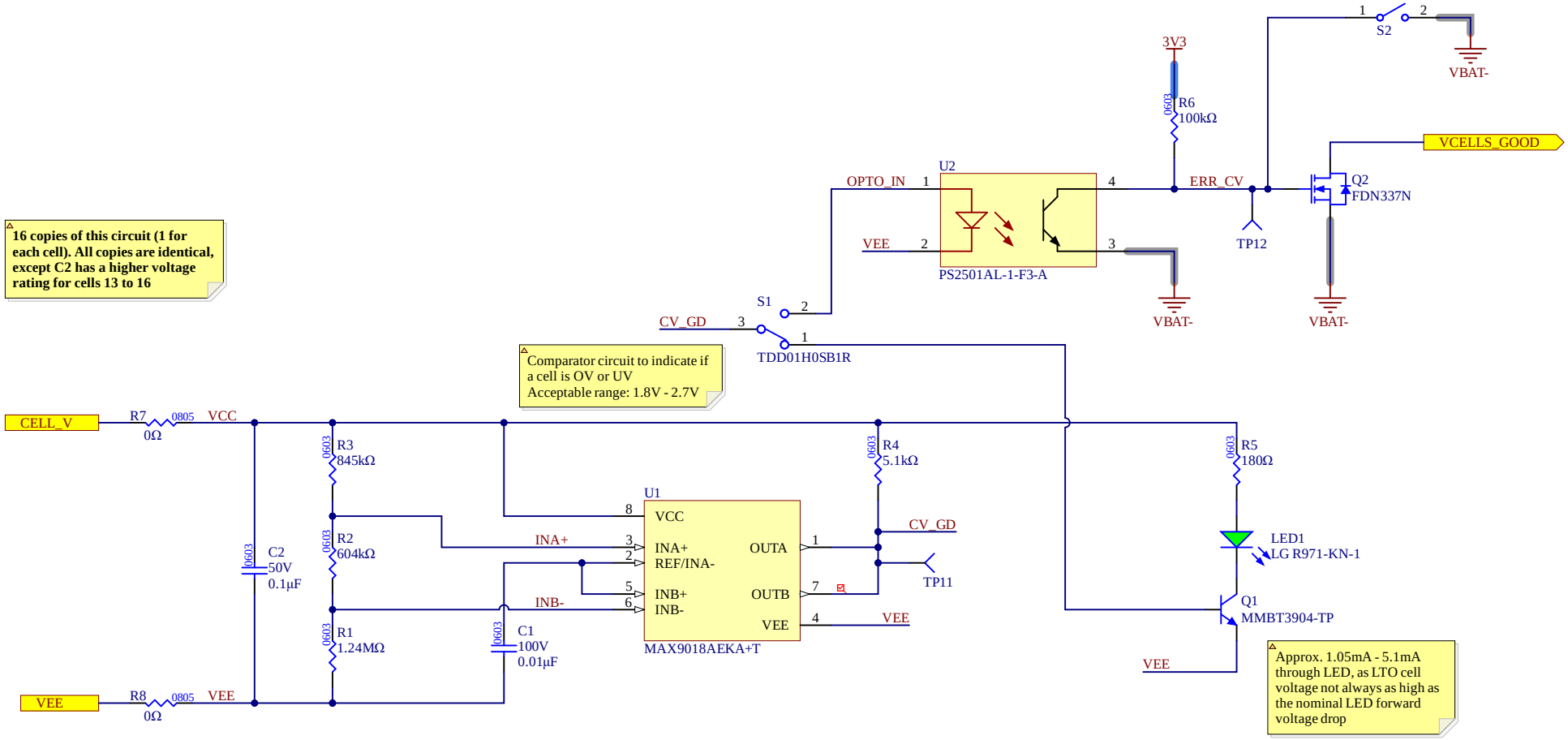
Battery Voltage Feedback



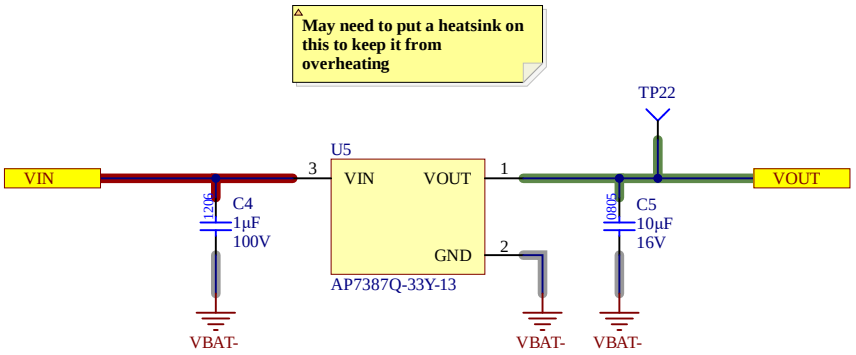
University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1	REV 1.0
PROJECT Battery Protector.PrjPcb, [No Variations]	
DOCUMENT Battery_Interface.SchDoc	MODIFIED 2023-03-14
ENGINEER Farris Matar	REVIEWER *
	SHEET 2 OF 8



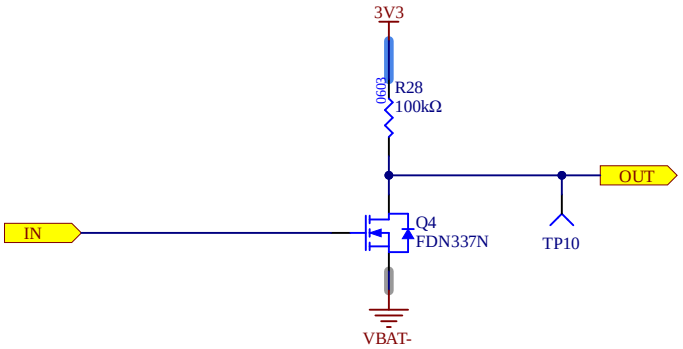
University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		REV 1.0
PROJECT: Battery Protector.PrjPcb, [No Variations]		
DOCUMENT: Cell_Temp_Comparator.SchDoc		MODIFIED: 2023-03-14
ENGINEER: Farris Matar	REVIEWER: *	SHEET 3 OF 8



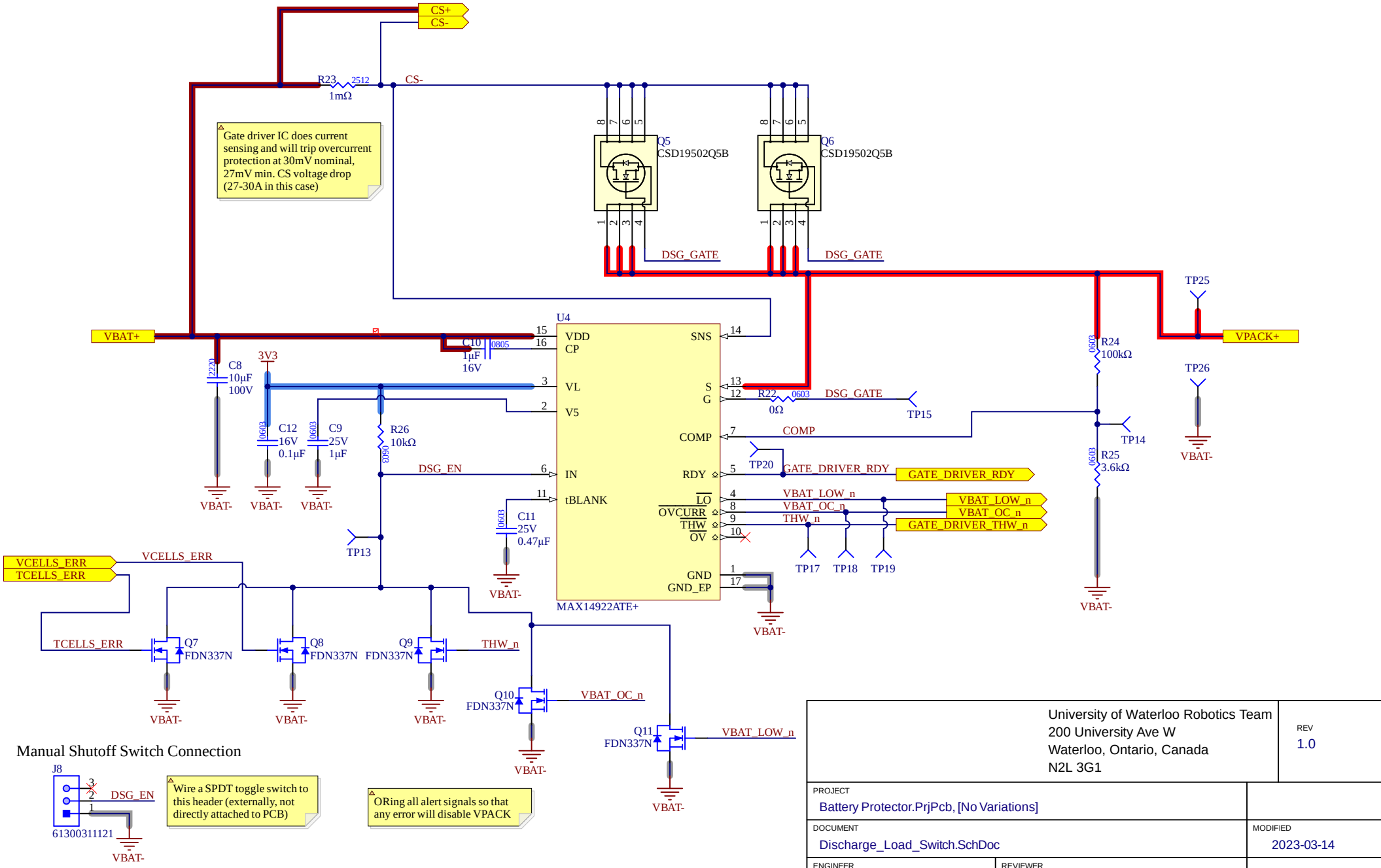
University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1	REV 1.0
PROJECT: Battery Protector.PrjPcb, [No Variations]	
DOCUMENT: Cell_Volt_Comparator.SchDoc	MODIFIED: 2023-03-14
ENGINEER: Farris Matar / REVIEWER: *	SHEET 4 OF 8



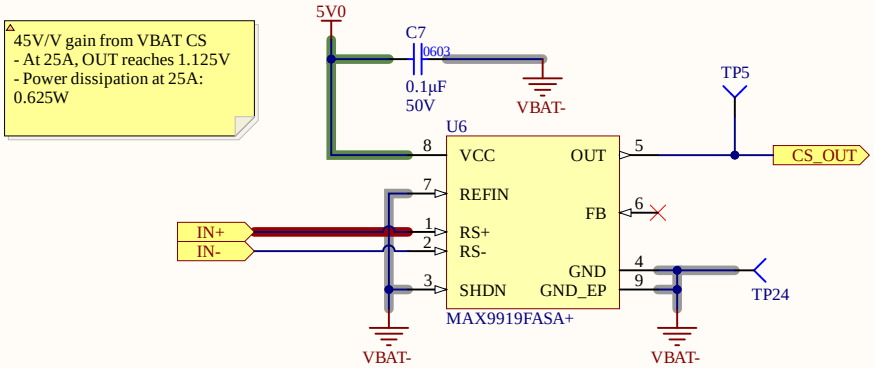
University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		REV 1.0
PROJECT Battery Protector.PrjPcb, [No Variations]		
DOCUMENT AP7387Q.SchDoc		MODIFIED 2023-03-06
ENGINEER Farris Matar	REVIEWER *	SHEET 5 OF 8



University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		REV 1.0
PROJECT Battery Protector.PrjPcb, [No Variations]		
DOCUMENT Logic_Inverter.SchDoc		MODIFIED 2023-02-09
ENGINEER Farris Matar	REVIEWER *	SHEET 6 OF 8



University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1	REV 1.0
PROJECT: Battery Protector.PrjPcb, [No Variations]	
DOCUMENT: Discharge_Load_Switch.SchDoc	MODIFIED: 2023-03-14
ENGINEER: Farris Matar / REVIEWER: *	SHEET 7 OF 8



University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		REV 1.0
PROJECT Battery Protector.PrjPcb, [No Variations]		
DOCUMENT MAX9919.SchDoc		MODIFIED 2023-03-14
ENGINEER Farris Matar	REVIEWER *	SHEET 8 OF 8