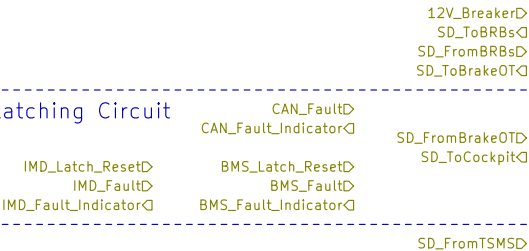


SEE ALTIUM SCHEMATIC FOR FINAL IMPLEMENTATION

Latching Circuit



- D12V_BrakeLight
- D12V_RadiatorFan
- D12V_Battbox
- D12V_Dashboard
- D12V_Pump
- D12V_MotorController
- D12V_BattboxFansL1
- D12V_BattboxFansL2
- D12V_BattboxFansR1
- D12V_BattboxFansR2

GND

- CAN_L
- CAN_H
- CAN_S

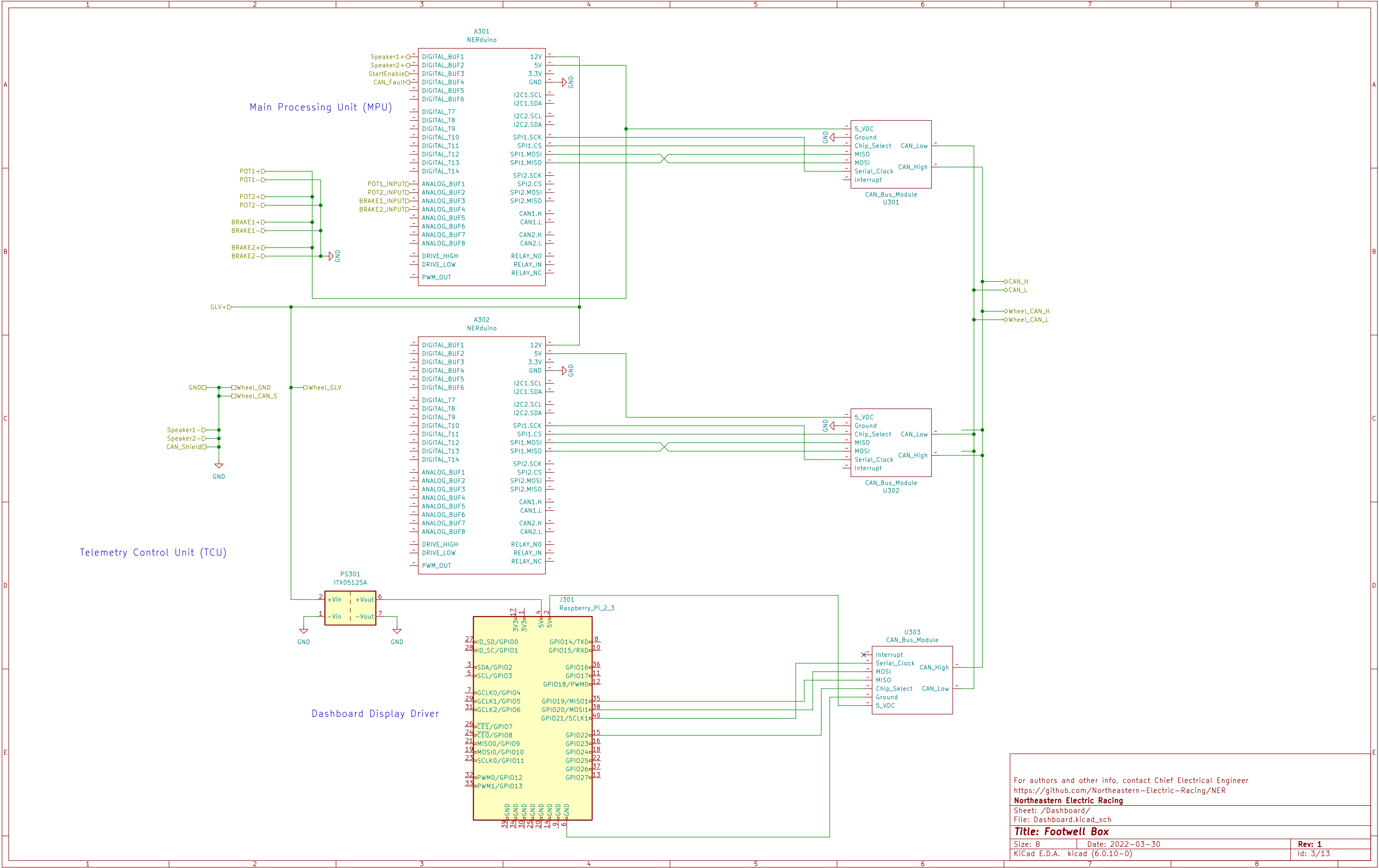
For authors and other info, contact Chief Electrical Engineer
<https://github.com/Northeastern-Electric-Racing/NER>

Northeastern Electric Racing

Sheet: /Power Distribution/
File: PDU.kicad_sch

Title: Power Distribution Board

Size: A	Date: 2023-01-23	Rev: 1
KiCad E.D.A. kicad (6.0.10-0)		Id: 2/13



For authors and other info, contact Chief Electrical Engineer
<https://github.com/Northeastern-Electric-Racing/NER>

Northeastern Electric Racing

Sheet: /Dashboard/
File: Dashboard.kicad_sch

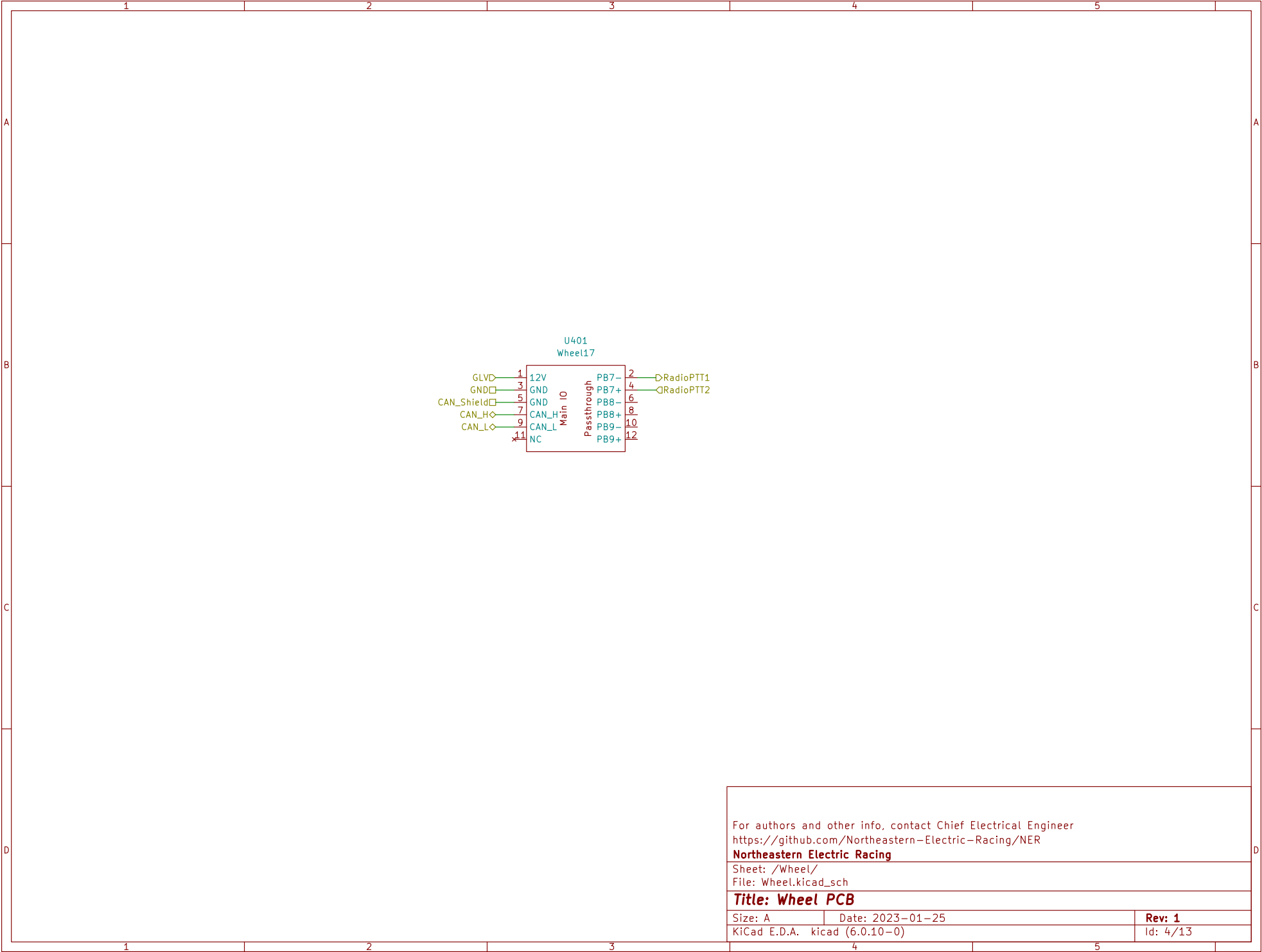
Title: Footwell Box

Size: B
KiCad E.D.A. kicad (6.0.10-0)

Date: 2022-03-30

Rev: 1

Id: 3/13



For authors and other info, contact Chief Electrical Engineer
<https://github.com/Northeastern-Electric-Racing/NER>

Northeastern Electric Racing

Sheet: /Wheel/

File: Wheel.kicad_sch

Title: Wheel PCB

Size: A Date: 2023-01-25

KiCad E.D.A. kicad (6.0.10-0)

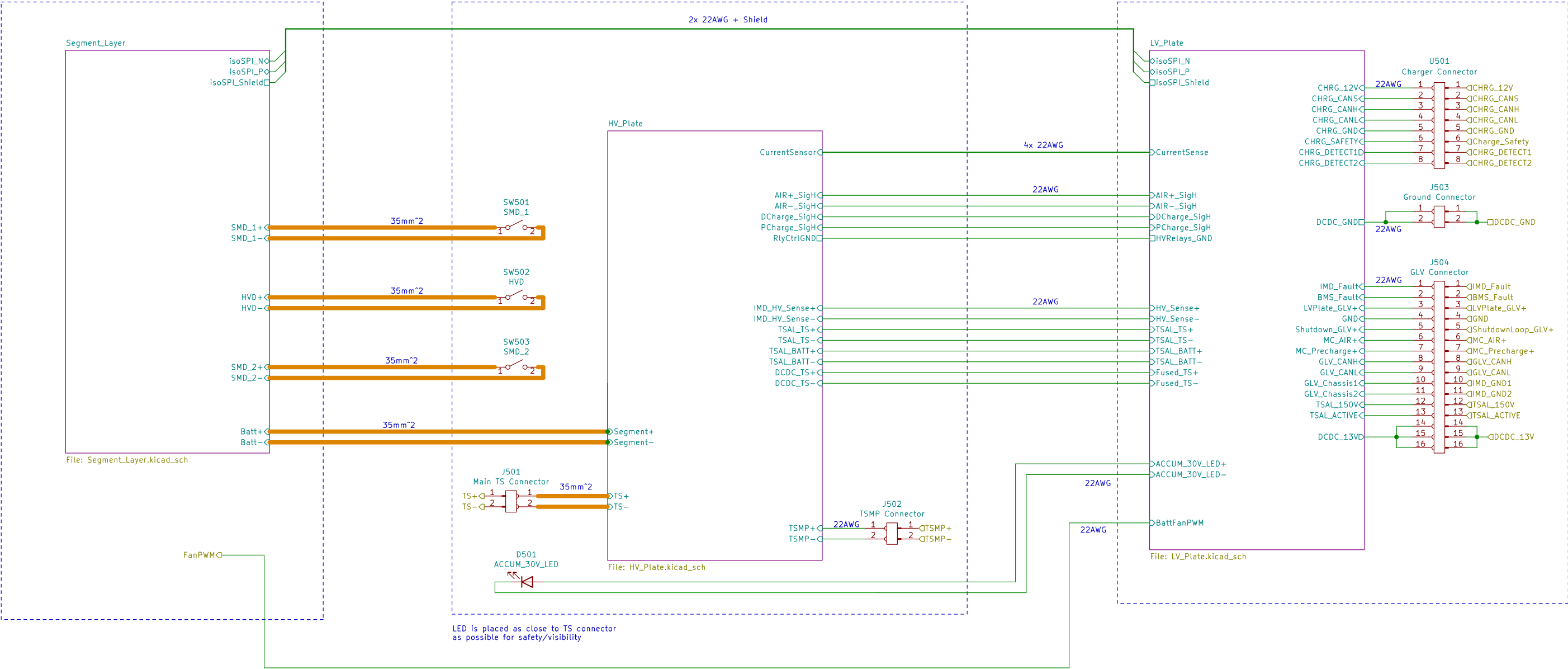
Rev: 1

Id: 4/13

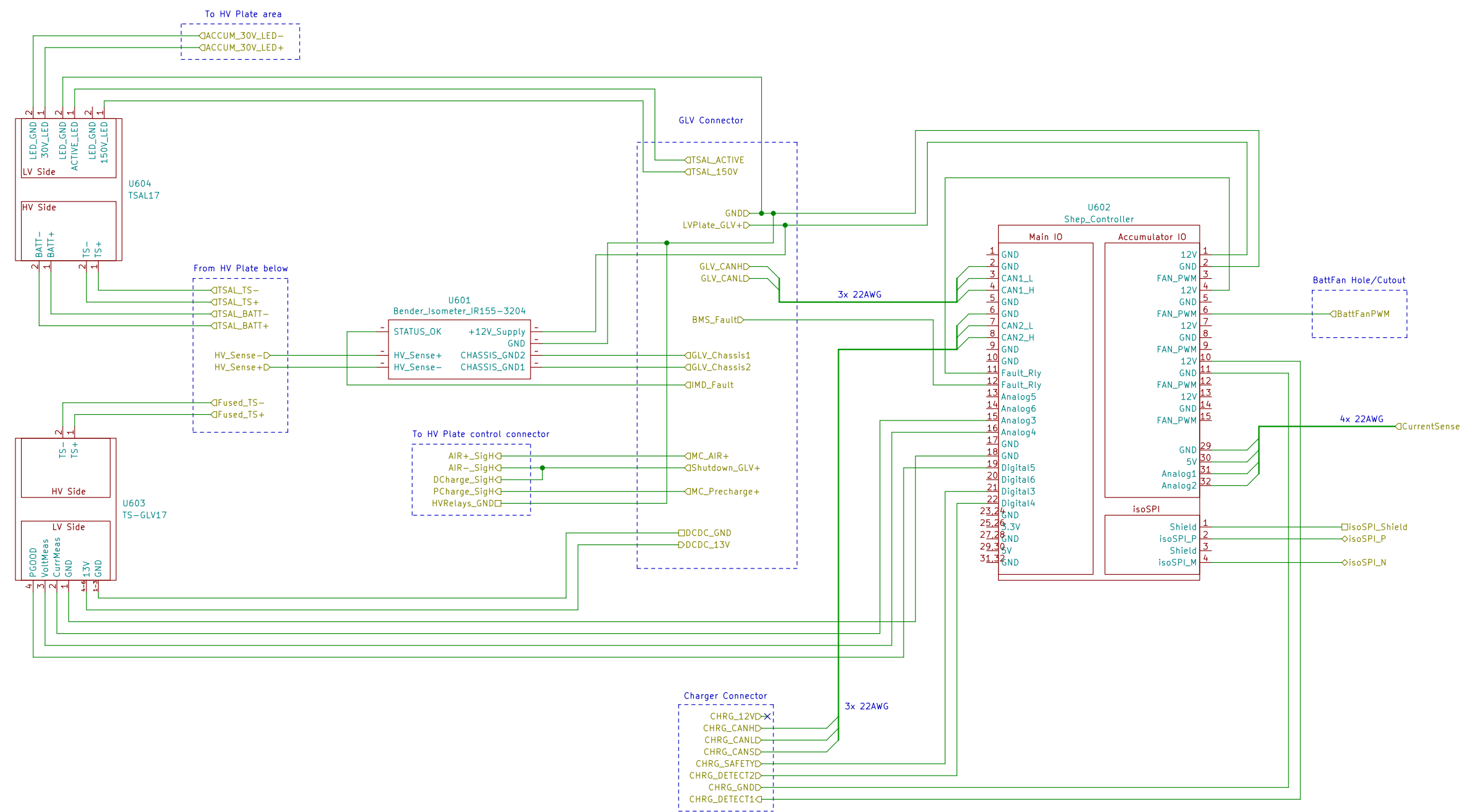
Segment Layer

HV Plate

LV Plate



ALL WIRES 22AWG EXCEPT WHERE LABELED



For authors and other info, contact Chief Electrical Engineer
<https://github.com/Northeastern-Electric-Racing/NER>

Northeastern Electric Racing

Sheet: /Accumulator Container/LV_Plate/

File: LV_Plate.kicad_sch

Title: LV Plate

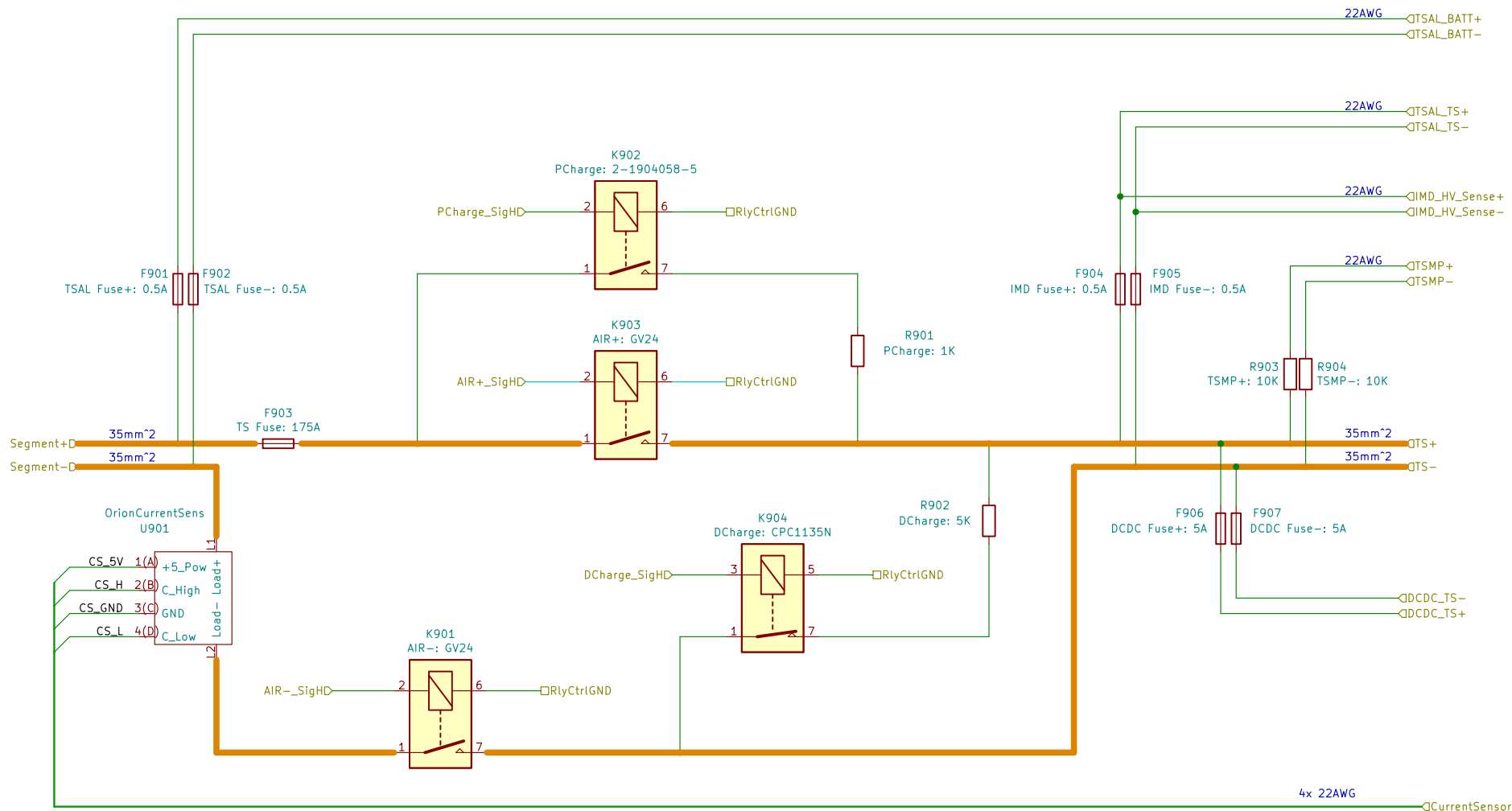
Size: B Date: 2023-01-25

Rev: 2

KiCad E.D.A. kicad (6.0.10-0)

Id: 6/13

SEE ALTIUM SCHEMATIC FOR FINAL IMPLEMENTATION



For authors and other info, contact Chief Electrical Engineer
<https://github.com/Northeastern-Electric-Racing/NER>

Northeastern Electric Racing

Sheet: /Accumulator Container/HV_Plate/
 File: HV_Plate.kicad_sch

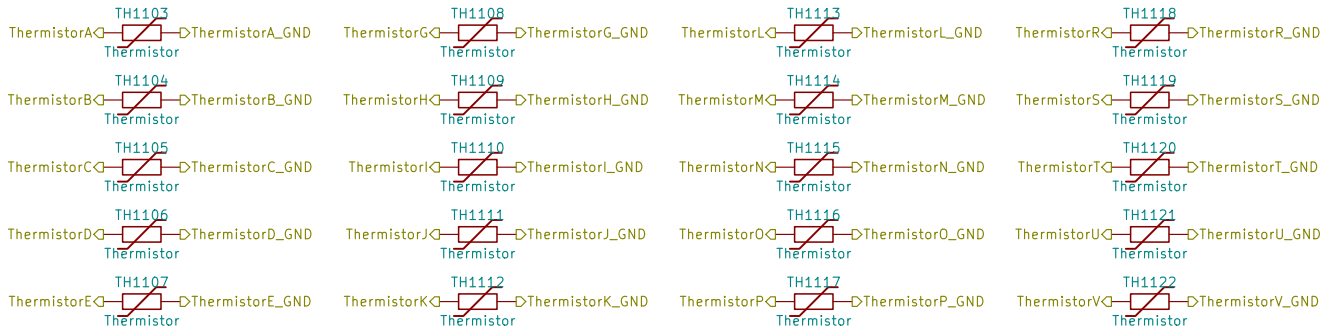
Title: HV Plate

Size: A Date: 2023-01-24
 KiCad E.D.A. kicad (6.0.10-0)

Rev: 2
 Id: 9/13

[illegible]

*Thermistors are distributed evenly throughout the segment. Each group of 5 has a common ground on the thermistor expansion.



Title: Accumulator Segment		
Size: B	Date: 2020-11-11	Rev: 3
KiCad E.D.A. kicad (6.0.10-0)		Id: 11/13

See Fusible Links Report 2022

Thermistors F & Q are critical, and are therefore independently grounded to the BMS. They are located in the center of the cell pack.

*Thermistors are distributed evenly throughout the segment. Each group of 5 has a common ground on the thermistor expansion.

Thermistor	Thermistor	Thermistor	Thermistor
ThermistorF TH1201	ThermistorA TH1203	ThermistorG TH1208	ThermistorL TH1213
ThermistorQ TH1202	ThermistorB TH1204	ThermistorH TH1209	ThermistorM TH1214
	ThermistorC TH1205	ThermistorI TH1210	ThermistorN TH1215
	ThermistorD TH1206	ThermistorJ TH1211	ThermistorO TH1216
	ThermistorE TH1207	ThermistorK TH1212	ThermistorP TH1217
			ThermistorV TH1222

For authors and other info, contact Chief Electrical Engineer
<https://github.com/Northeastern-Electric-Racing/NER>
Northeastern Electric Racing
Sheet: /Accumulator Container/Segment_Layer/BatterySegment2/
File: BatterySegment.kicad_sch

Title: Accumulator Segment	
Size: B	Date: 2020-11-11
KiCad E.D.A. kicad (6.0.10-0)	Rev: 3
Id: 12/13	

*Thermistors are distributed evenly throughout the segment. Each group of 5 has a common ground on the thermistor expansion.



Title: Accumulator Segment		
Size: B	Date: 2020-11-11	Rev: 3
KiCad E.D.A. kicad (6.0.10-0)		Id: 12/13

