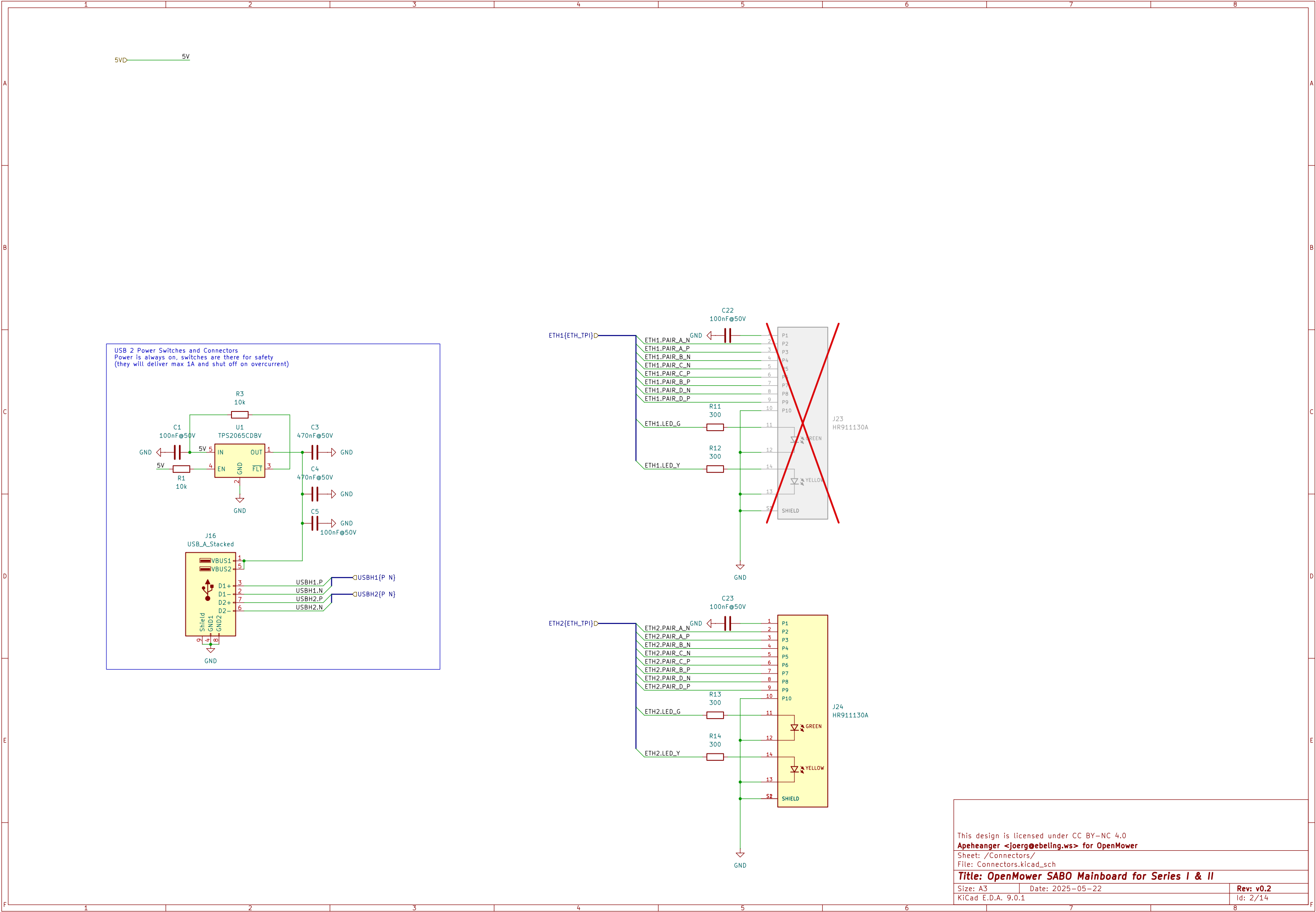


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Apeheanger <joerg@ebeling.ws> for OpenMower
 Sheet: /
 File: hw-openmower-sabo.kicad_sch
Title: OpenMower SABO Mainboard for Series I & II
 Size: A3 Date: 2025-05-22 Rev: v0.2
 KiCad E.D.A. 9.0.1 Id: 1/14



5V D 5V

USB 2 Power Switches and Connectors
Power is always on, switches are there for safety
(they will deliver max 1A and shut off on overcurrent)

R3 10k

U1 TPS2065CDBV

C1 100nF@50V

R1 10k

C3 470nF@50V

C4 470nF@50V

C5 100nF@50V

J16 USB_A_Stacked

VBUS1

VBUS2

D1+

D1-

D2+

D2-

Shield

GND1

GND2

USBH1.P

USBH1.N

USBH2.P

USBH2.N

ETH1{ETH_TPI}

ETH1.PAIR_A_N

ETH1.PAIR_A_P

ETH1.PAIR_B_N

ETH1.PAIR_B_P

ETH1.PAIR_C_N

ETH1.PAIR_C_P

ETH1.PAIR_D_N

ETH1.PAIR_D_P

ETH1.LED_G

ETH1.LED_Y

C22 100nF@50V

R11 300

R12 300

J23 HR911130A

GREEN

YELLOW

SHIELD

GND

ETH2{ETH_TPI}

ETH2.PAIR_A_N

ETH2.PAIR_A_P

ETH2.PAIR_B_N

ETH2.PAIR_B_P

ETH2.PAIR_C_N

ETH2.PAIR_C_P

ETH2.PAIR_D_N

ETH2.PAIR_D_P

ETH2.LED_G

ETH2.LED_Y

C23 100nF@50V

R13 300

R14 300

J24 HR911130A

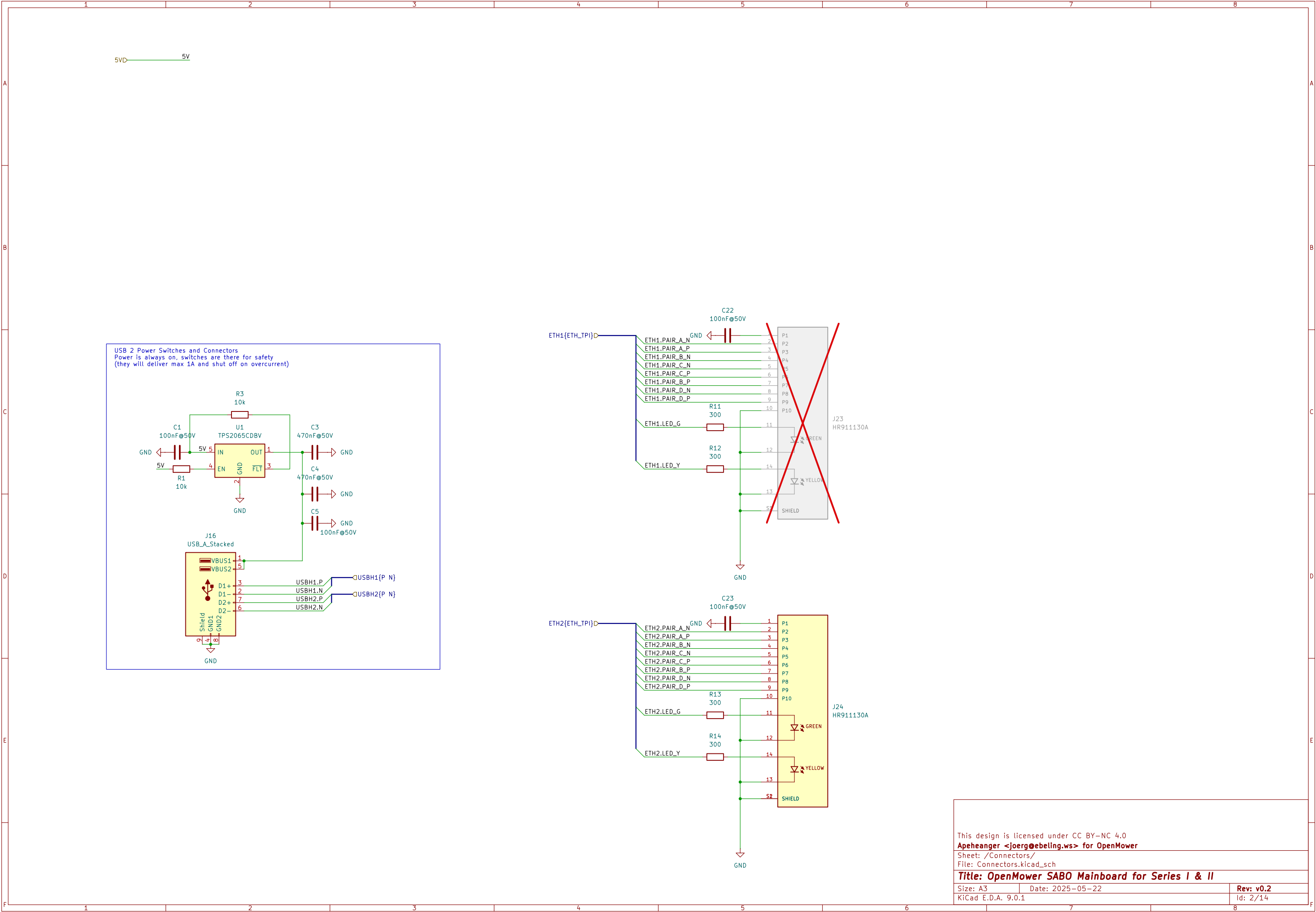
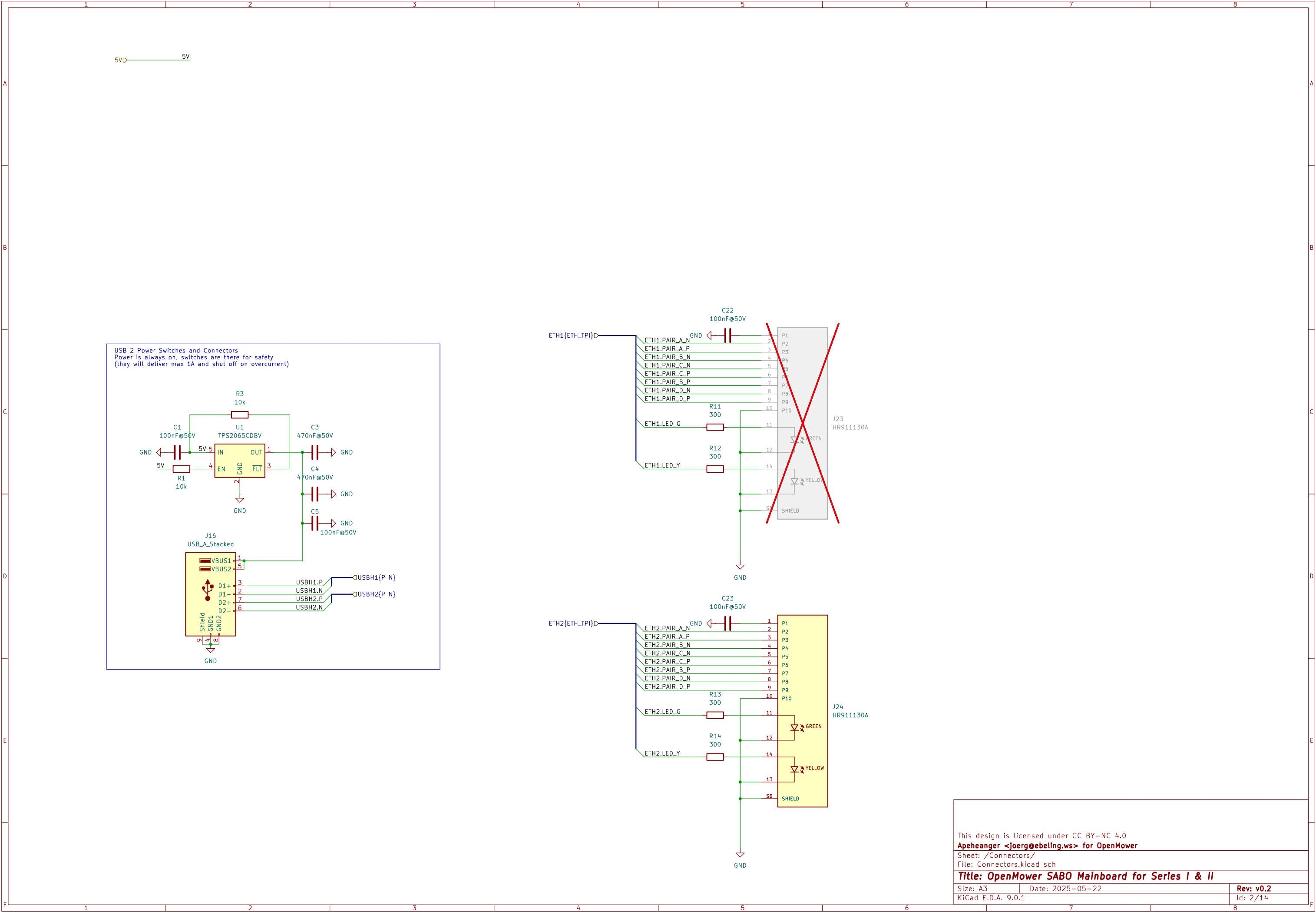
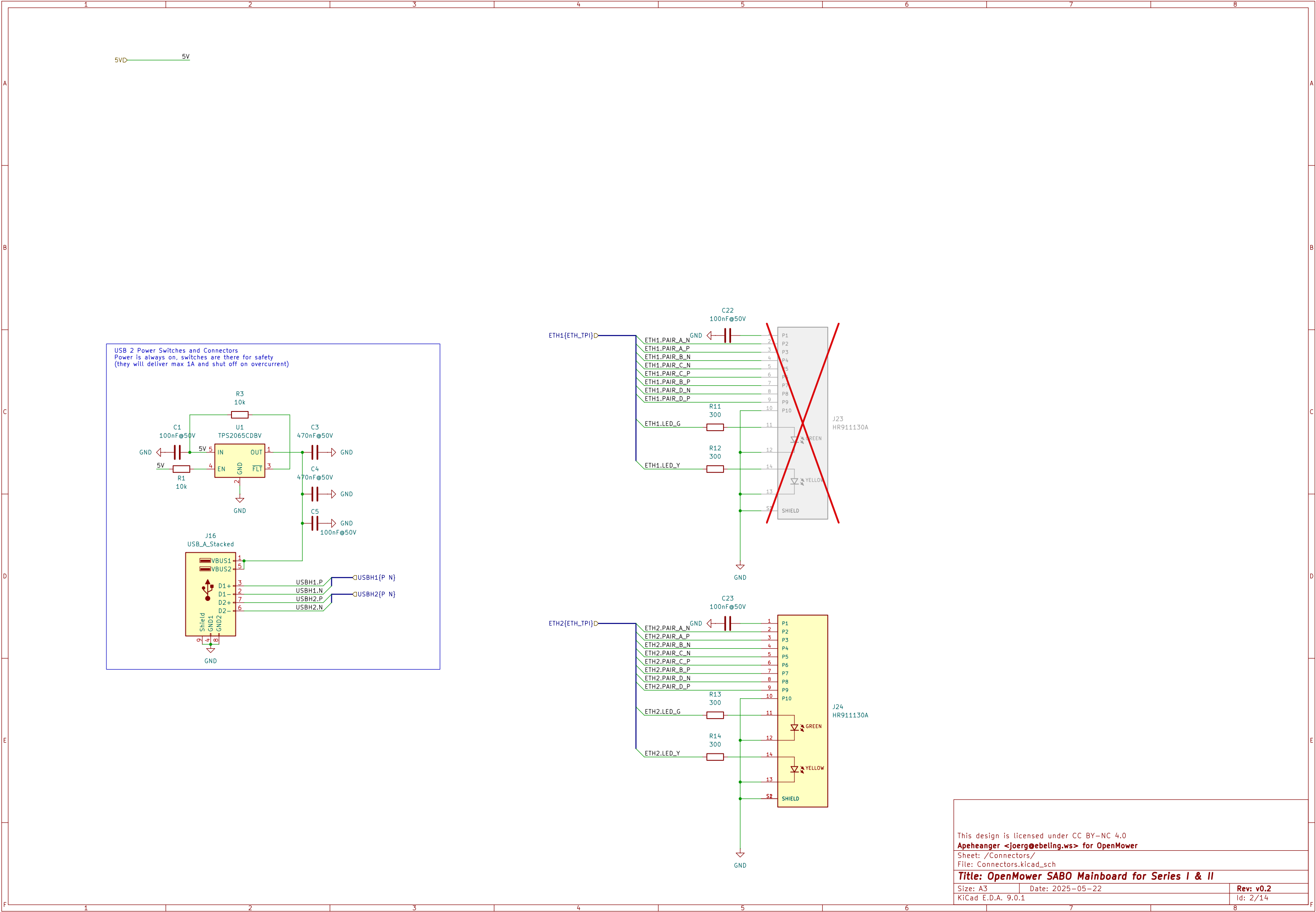
GREEN

YELLOW

SHIELD

GND

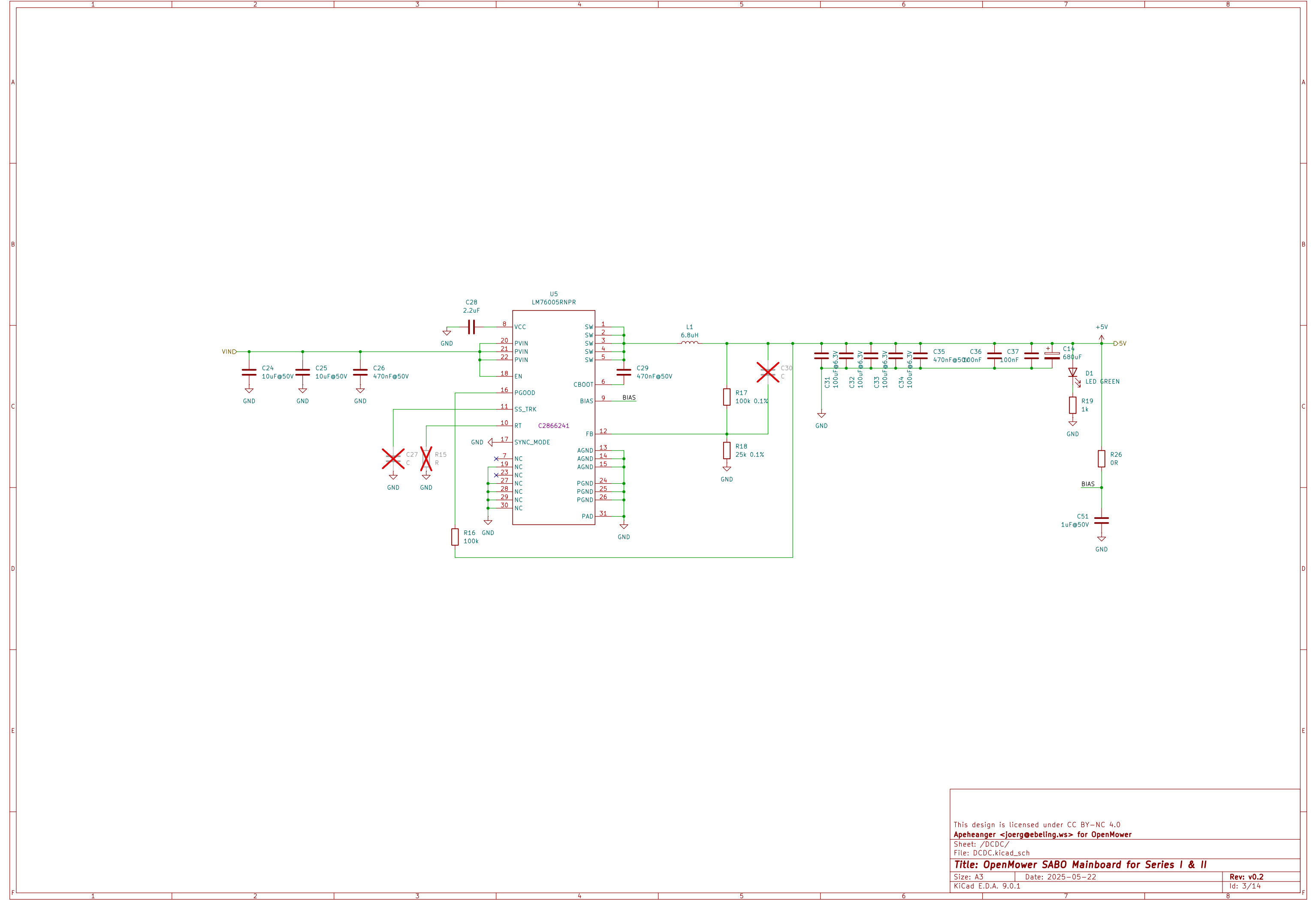
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Sheet: /Connectors/
File: Connectors.kicad_sch
Title: OpenMower SABO Mainboard for Series I & II
Size: A3 Date: 2025-05-22 Rev: v0.2
KiCad E.D.A. 9.0.1 Id: 2/14



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Size: A3	Date: 2025-05-22	Rev: v0.2						
KiCad E.D.A. 9.0.1		Id: 2/14						

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Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 2/14
	7	8

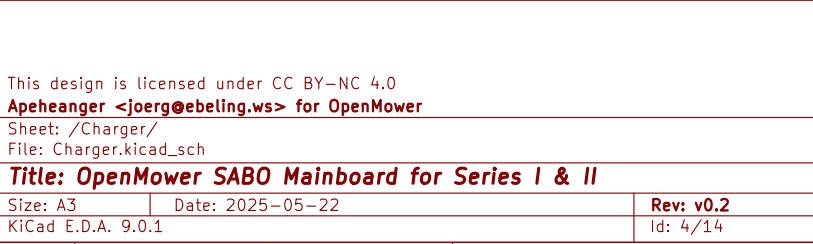
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Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 2/14
	7	8

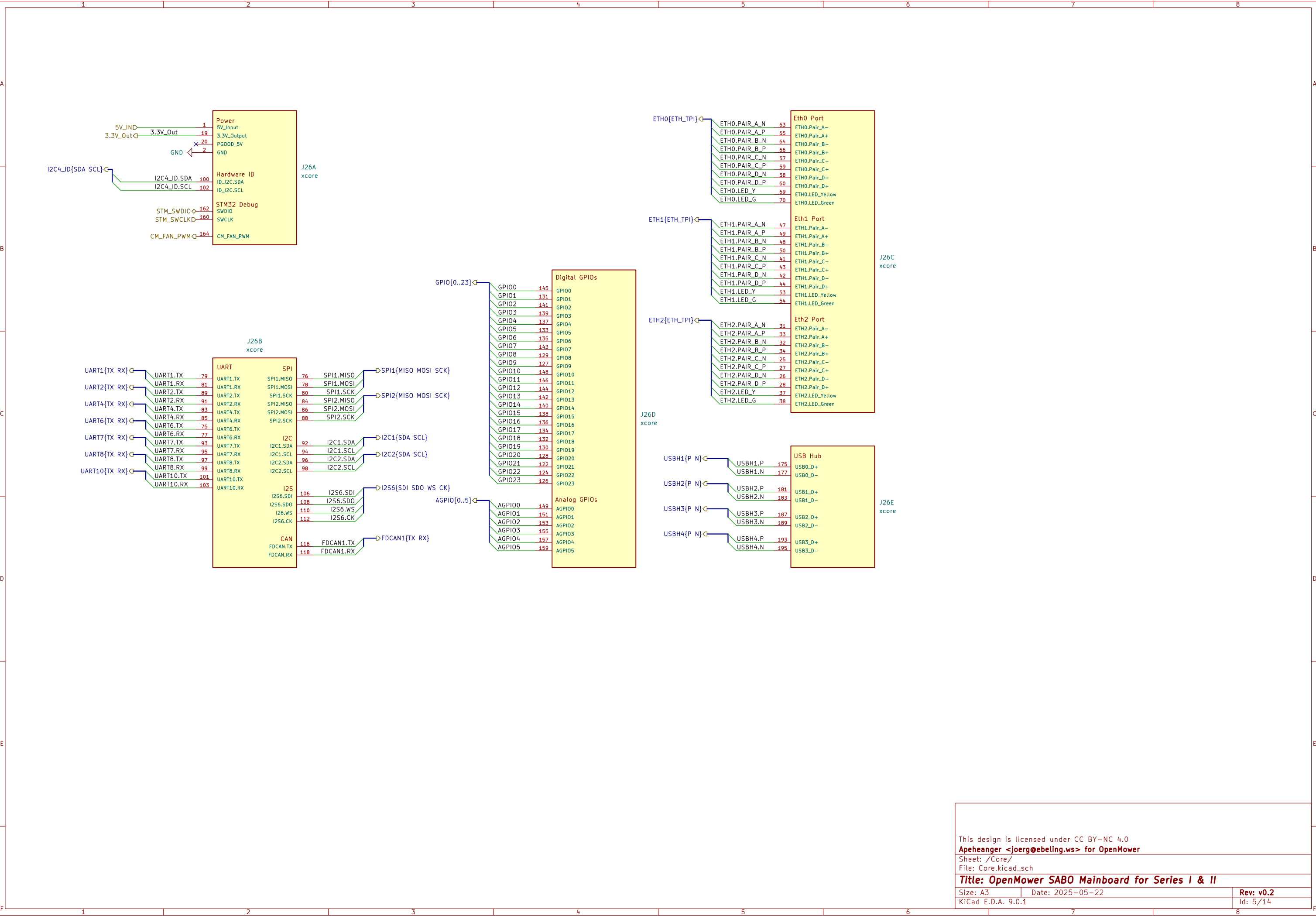


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Sheet: /DCDC/
File: DCDC.kicad_sch

Title: OpenMower SABO Mainboard for Series I & II

Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 3/14

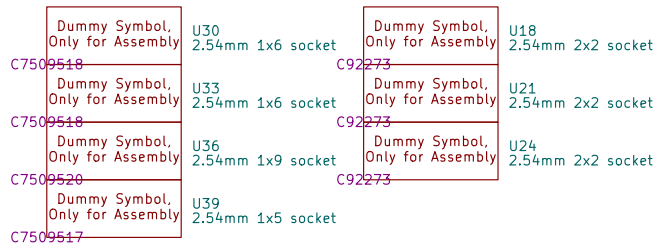




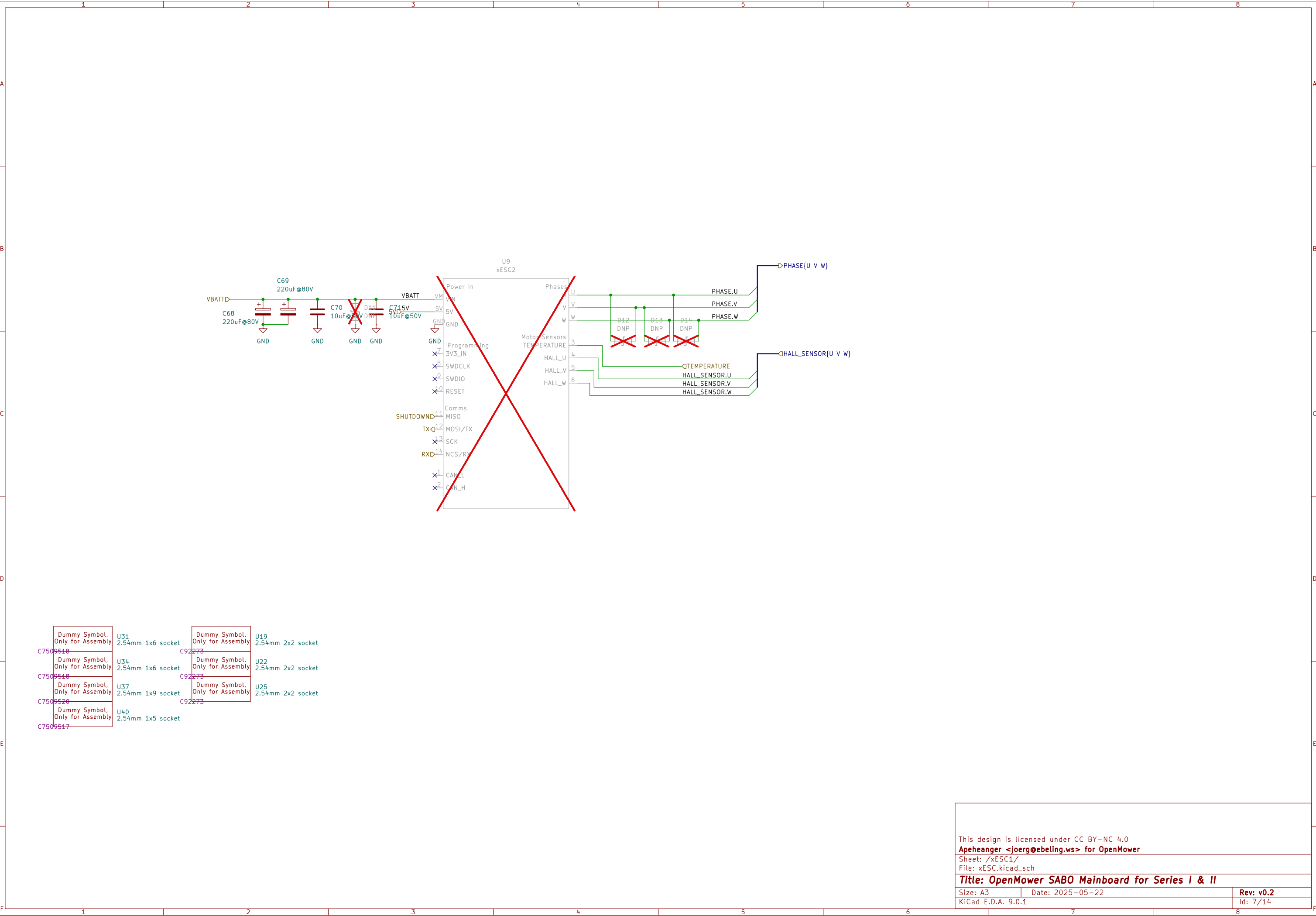
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Apeheanger <joerg@ebeling.ws> for OpenMower
Sheet: /Core/
File: Core.kicad_sch

Title: OpenMower SABO Mainboard for Series I & II

Size: A3	Date: 2025-05-22	Rev: v0.2
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Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 6/14

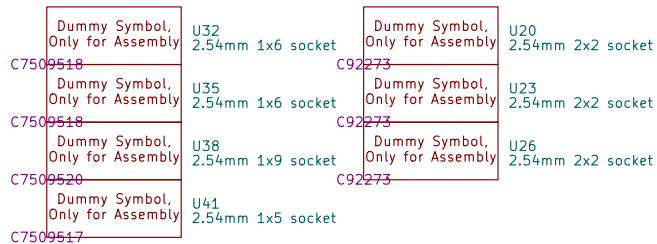


Dummy Symbol, Only for Assembly	U31 2.54mm 1x6 socket	Dummy Symbol, Only for Assembly	U19 2.54mm 2x2 socket
C7509518		C92273	
Dummy Symbol, Only for Assembly	U34 2.54mm 1x6 socket	Dummy Symbol, Only for Assembly	U22 2.54mm 2x2 socket
C7509518		C92273	
Dummy Symbol, Only for Assembly	U37 2.54mm 1x9 socket	Dummy Symbol, Only for Assembly	U25 2.54mm 2x2 socket
C7509520		C92273	
Dummy Symbol, Only for Assembly	U40 2.54mm 1x5 socket		
C7509517			

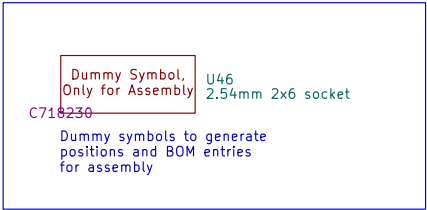
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Apeheanger <joerg@ebeling.ws> for OpenMower
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File: xESC.kicad_sch

Title: OpenMower SABO Mainboard for Series I & II

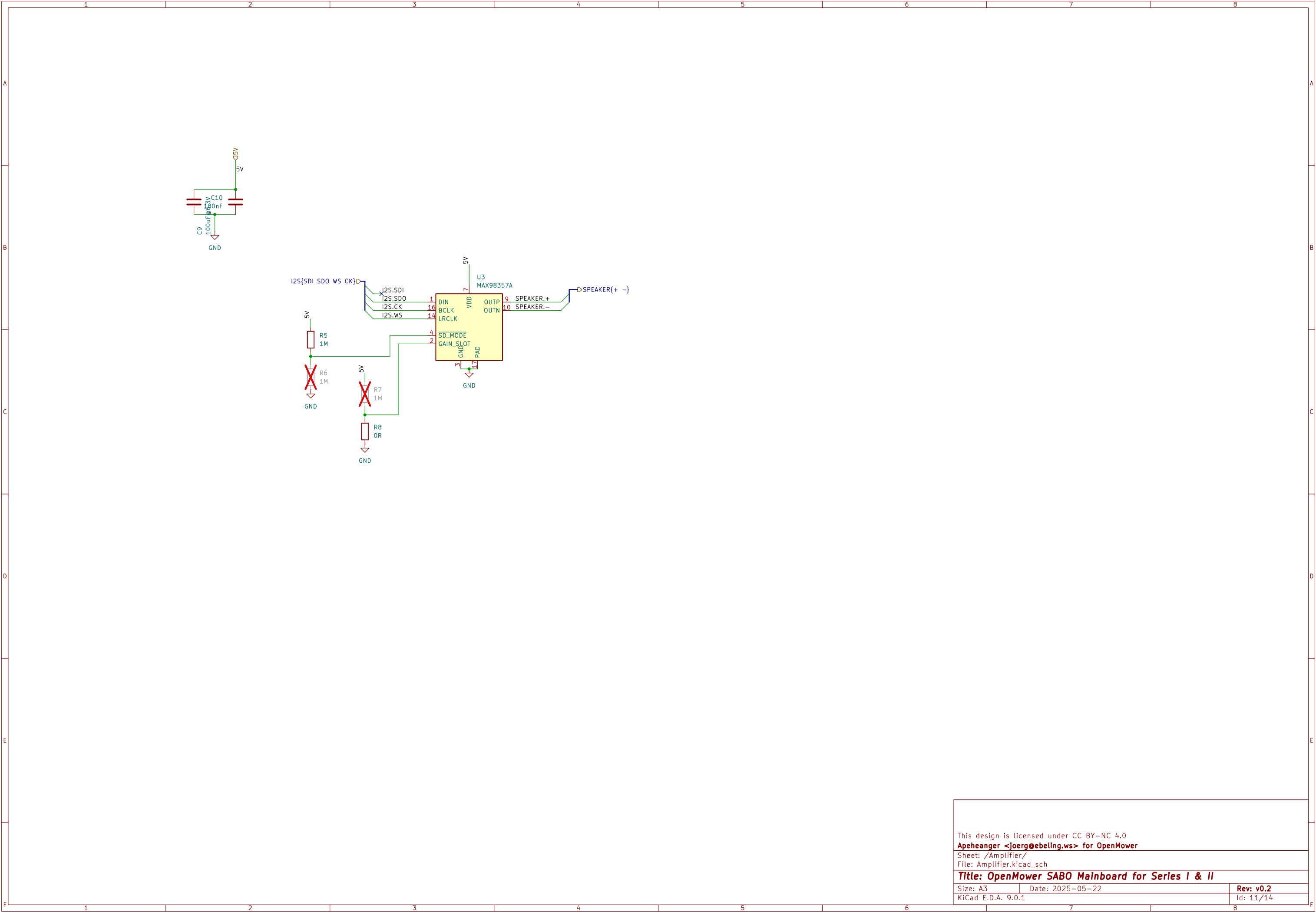
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KiCad E.D.A. 9.0.1		Id: 7/14



Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 8/14



Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 9/14



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Sheet: /Amplifier/
File: Amplifier.kicad_sch

Title: OpenMower SABO Mainboard for Series I & II

Size: A3	Date: 2025-05-22	Rev: v0.2
KiCad E.D.A. 9.0.1		Id: 11/14

