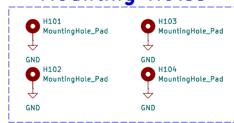


Mounting Holes



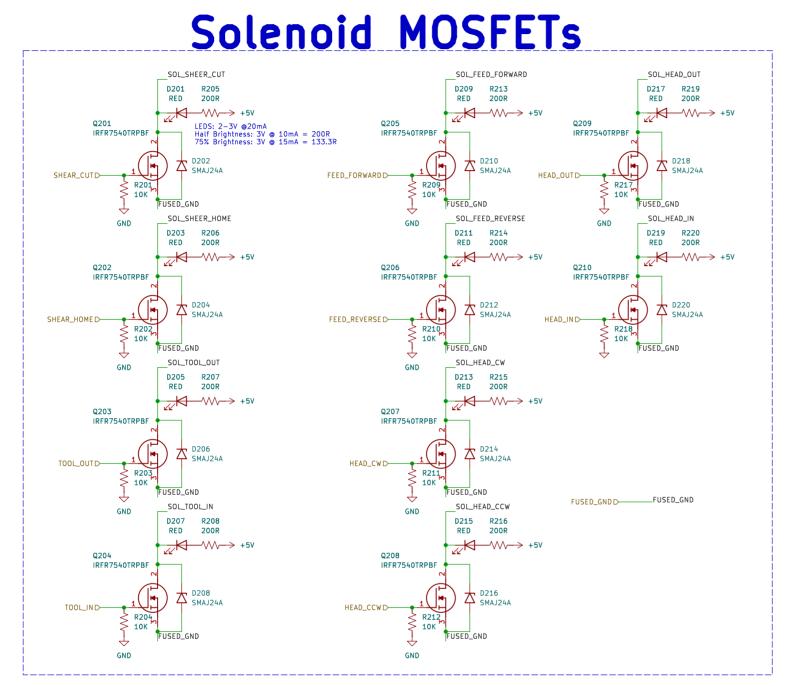
Rev	Date	Author	Change Description
X1	12/08/24	Connor M.	Initial release
X2	05/31/25	Connor M.	Removed HMI header. Added HMI SBC
			board support. Added schmitt triggers
			on all inputs. Integrated Arduino Due.

Hardware: Connor McMillan (connor@mcmillan.website) Firmware: John Gilcreast (johngilcreast@gmail.com) McMillan Enterprises	* MCMILLAN ENTERPRISES
Sheet: / File: MEP-MAXI-85V-1-REV-2-Interface-Board.kicad_	

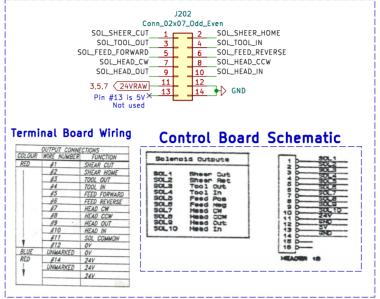
 Title:
 MEP
 MAXI
 85V-1
 REV 2
 Interface
 Board

 Size:
 A2
 Date:
 2025-05-31

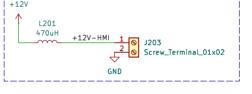
 KiCad
 E.D.A.
 9.0.2



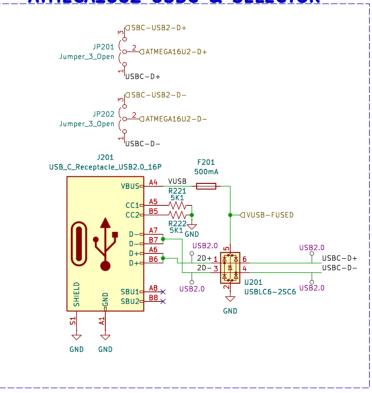
MEP MAXI



HMI Screen



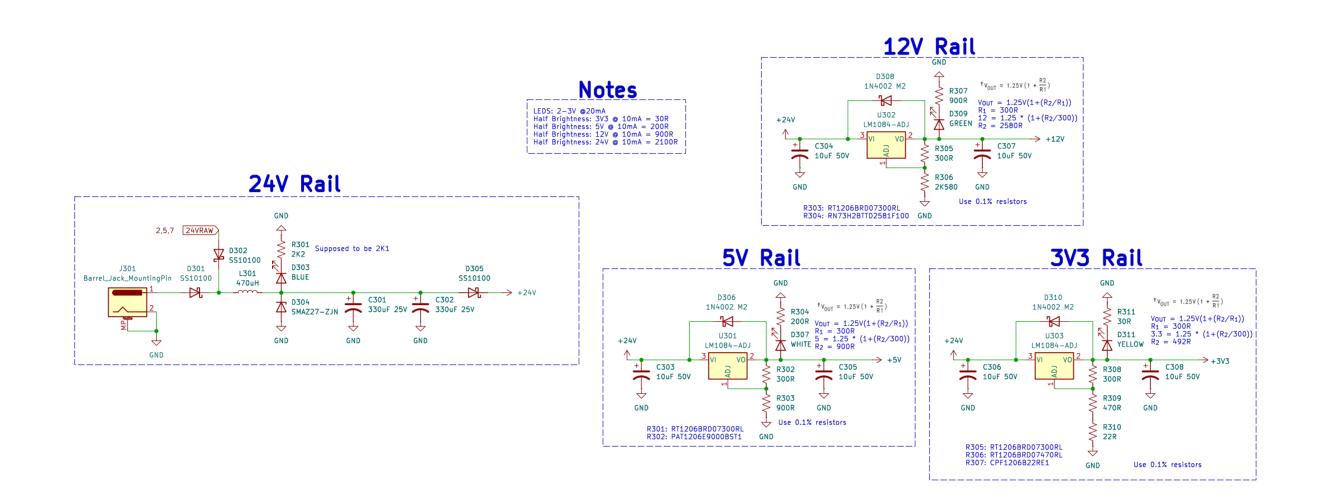
ATMEGA16U2 USBC & SELECTOR



Hardware: Connor McMillan (connor@mcmillan.website)
Firmware: John Gilcreast (johngilcreast@gmail.com)
McMillan Enterprises
Sheet: /Output Connections/
File: output_connections.kicad_sch

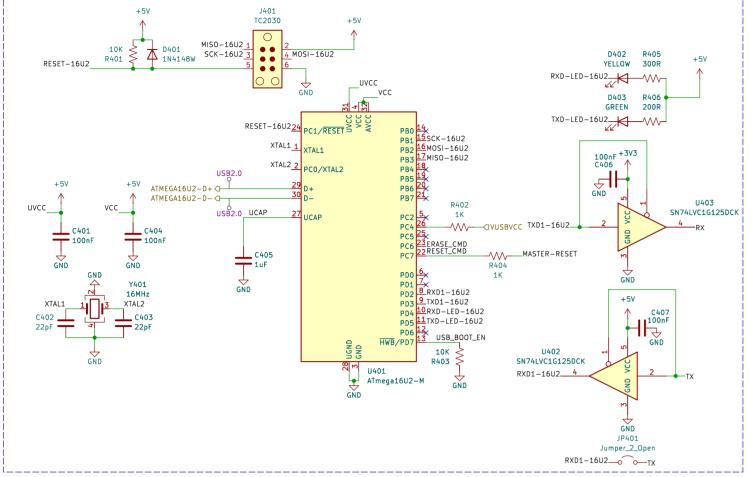
Title: MEP MAXI 85V-1 REV 2 Interface Board

Size: A2 Date: 2025-05-31 Rev: X2
KiCad E.D.A. 9.0.2 Id: 2/7

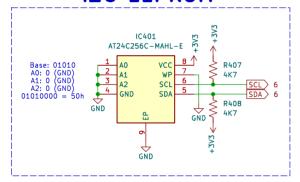


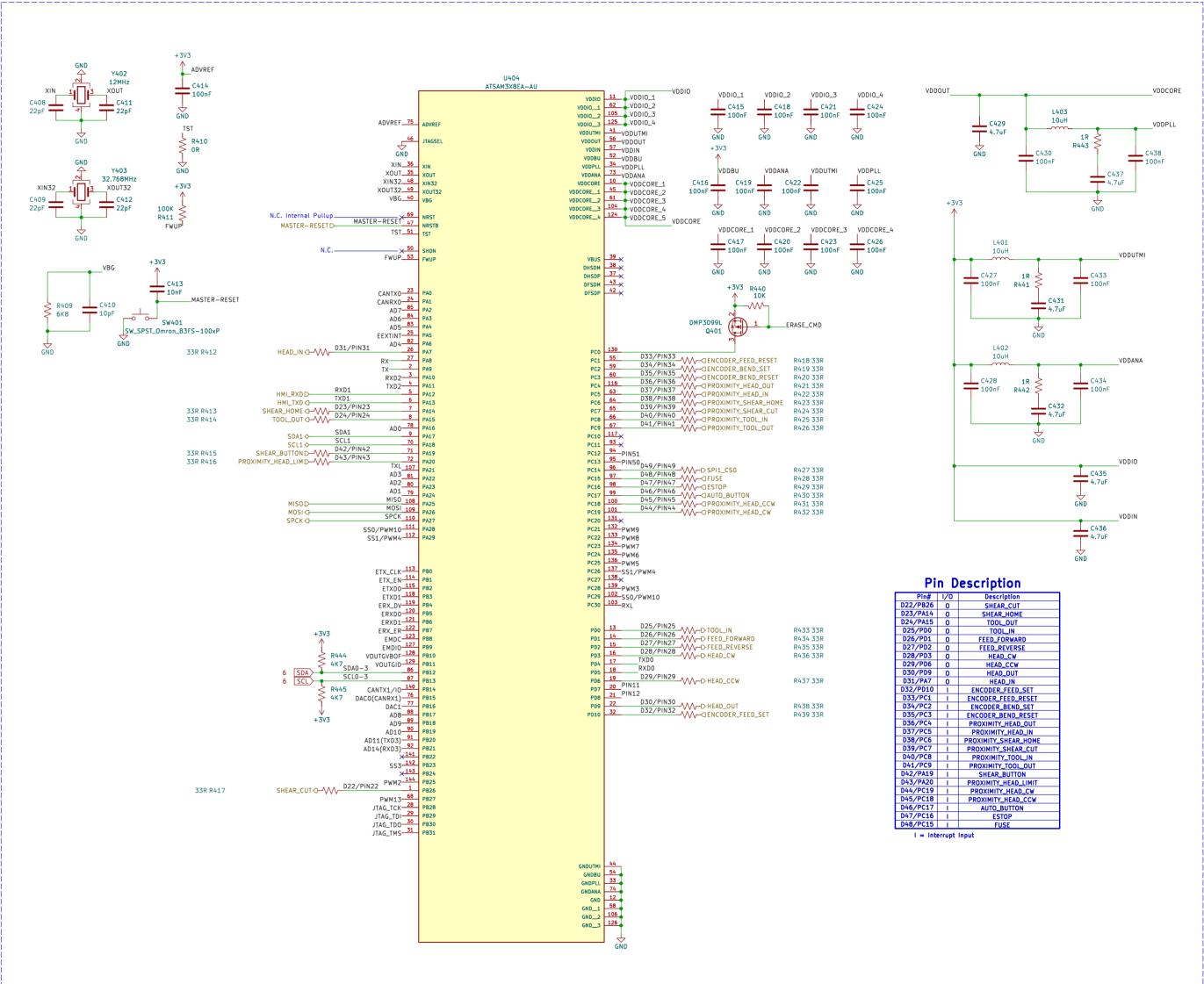
ATMEGA16U2

ATMEL SAM3X8

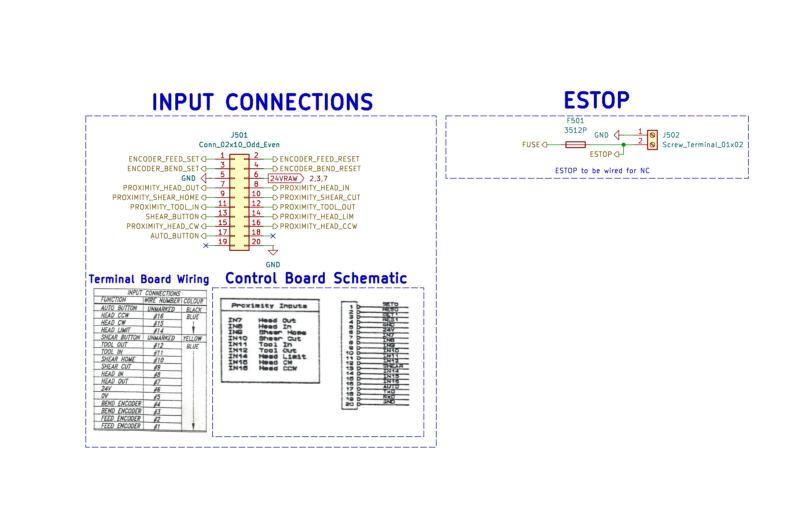












Hardware: Connor McMillan (connor@mcmillan.website)
Firmware: John Gilcreast (johngilcreast@gmail.com)

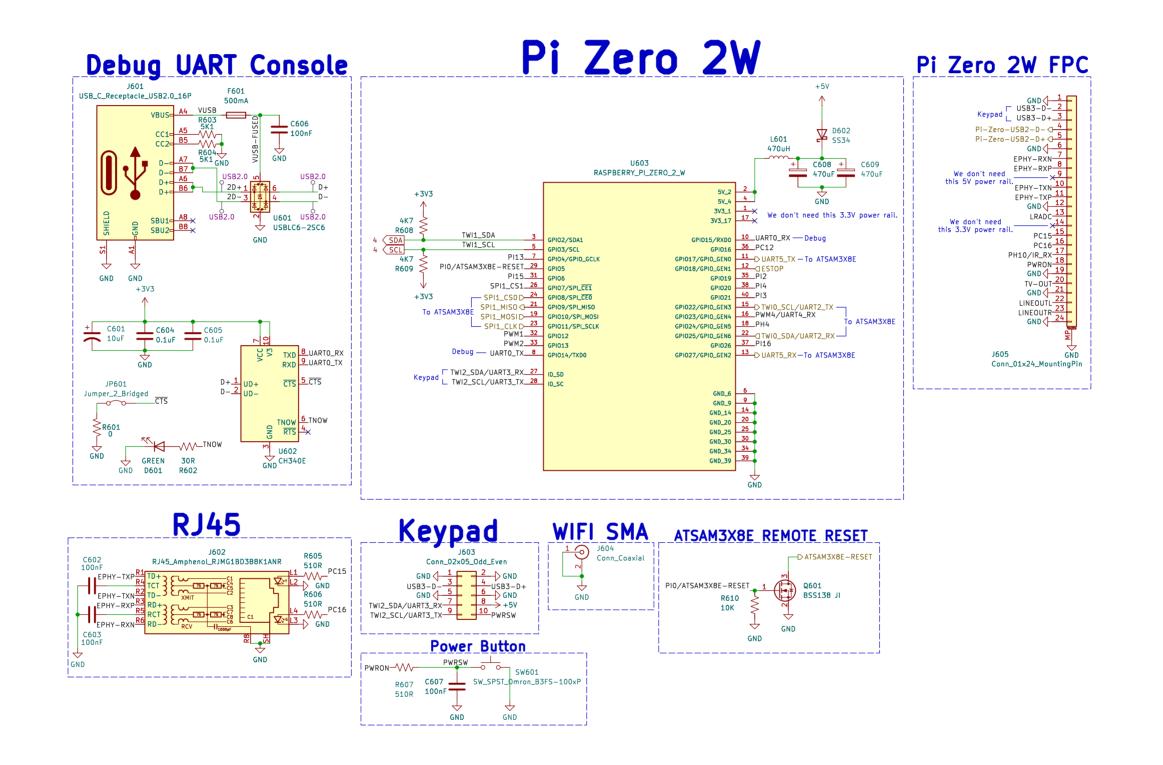
McMillan Enterprises
Sheet: /Input Connections/
File: input_connections.kicad_sch

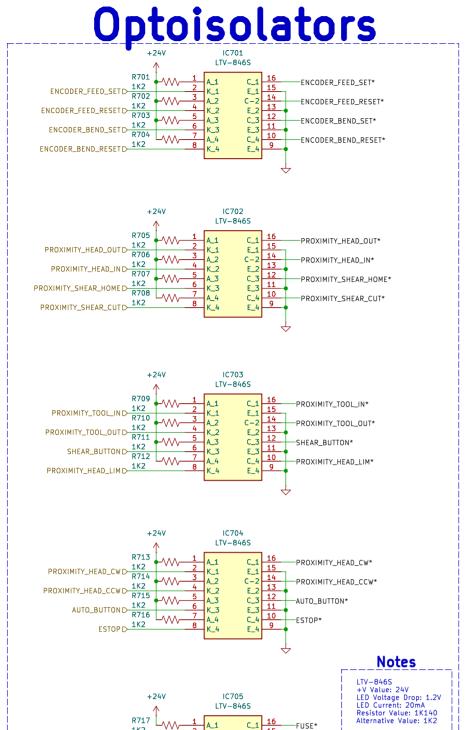
Title: MEP MAXI 85V-1 REV 2 Interface Board

Size: A2 Date: 2025-05-31 Rev: X2

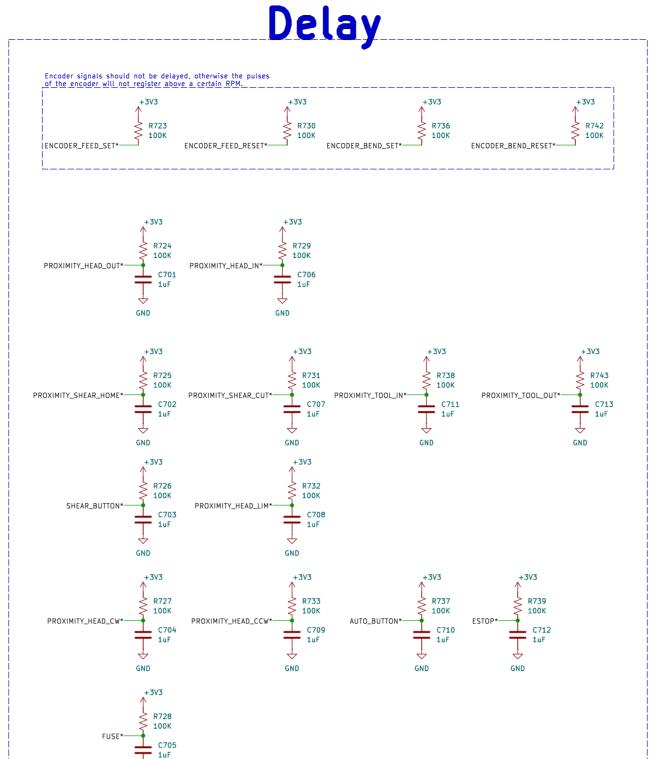
KiCad E.D.A. 9.0.2 Rev: X2

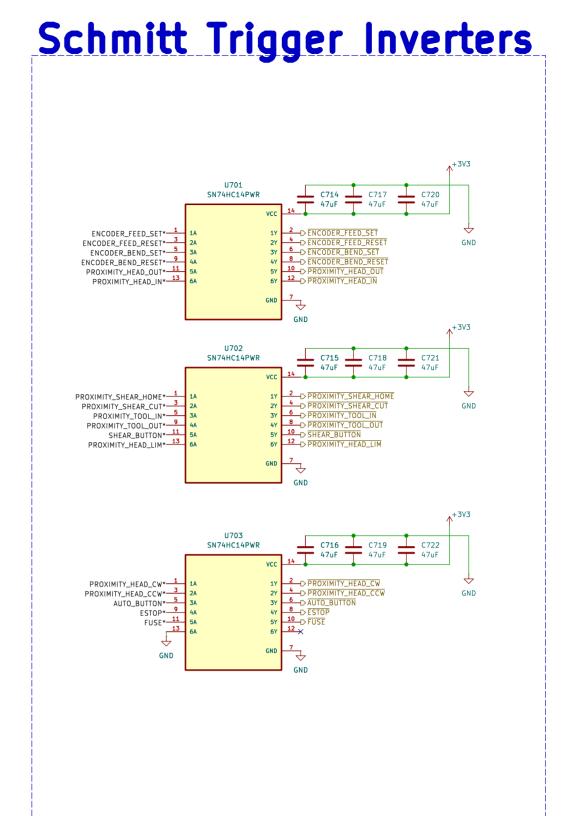
10 11





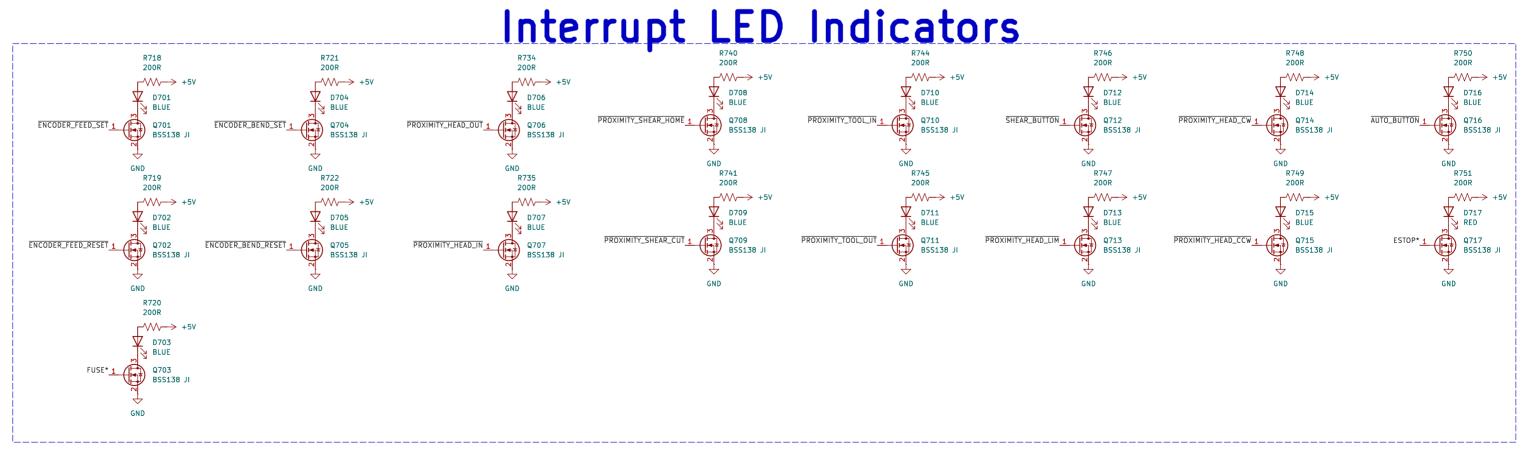
Interrupt LEDS: 2-3V ⊕20mA Half Brightness: 3V ⊕ 10mA = 200R 75% Brightness: 3V ⊕ 15mA = 133.3R





Test Points





Hardware: Connor McMillan (connor@mcmillan.website)
Firmware: John Gilcreast (johngilcreast@gmail.com)

McMillan Enterprises

Sheet: /Signal Processing/
File: signal-processing.kicad_sch

Title: MEP MAXI 85V-1 REV 2 Interface Board

Size: A2 Date: 2025-05-31 Rev: X2

KiCad E.D.A. 9.0.2 Id: 7/7