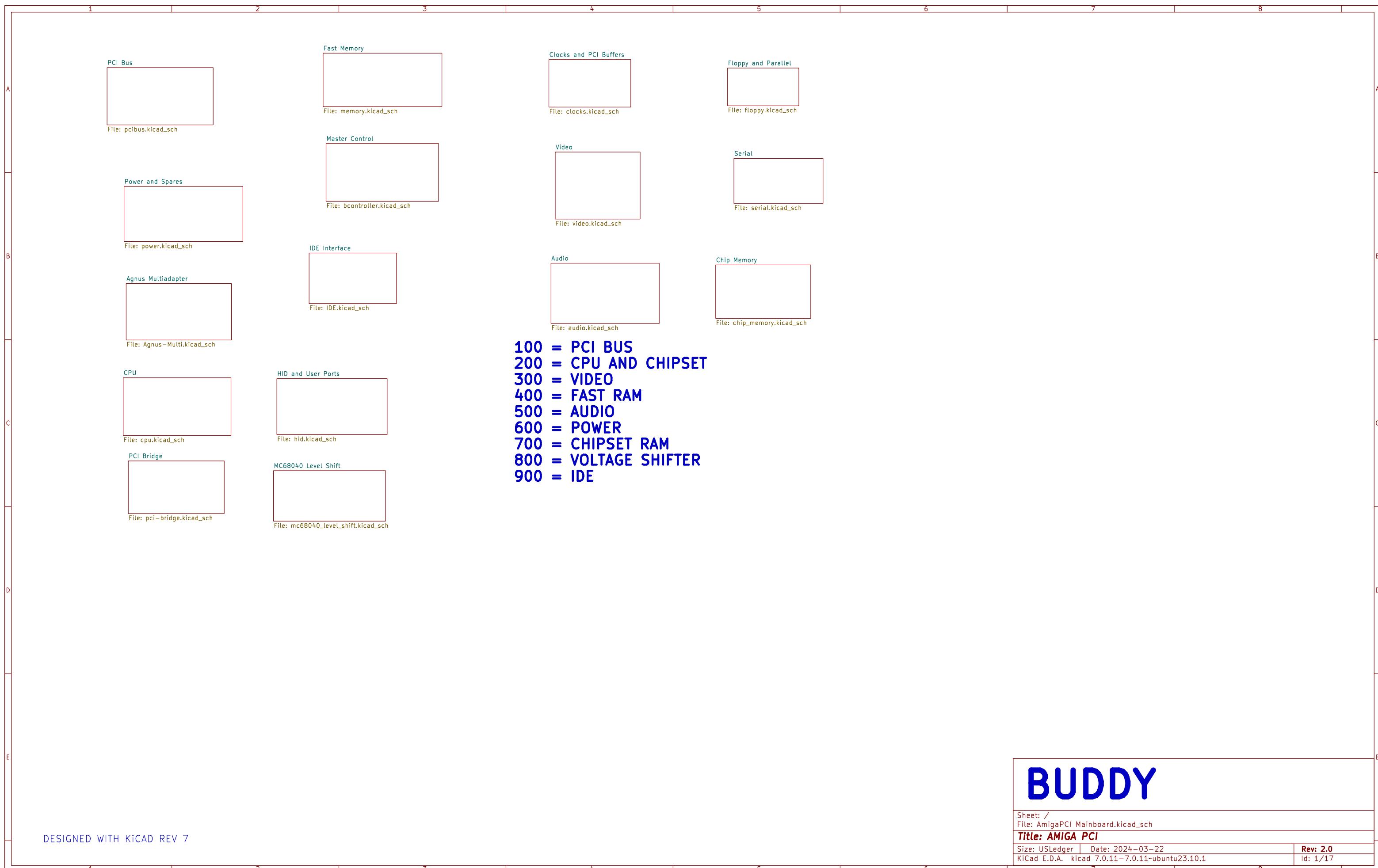


1 2 3 4 5 6 7 8



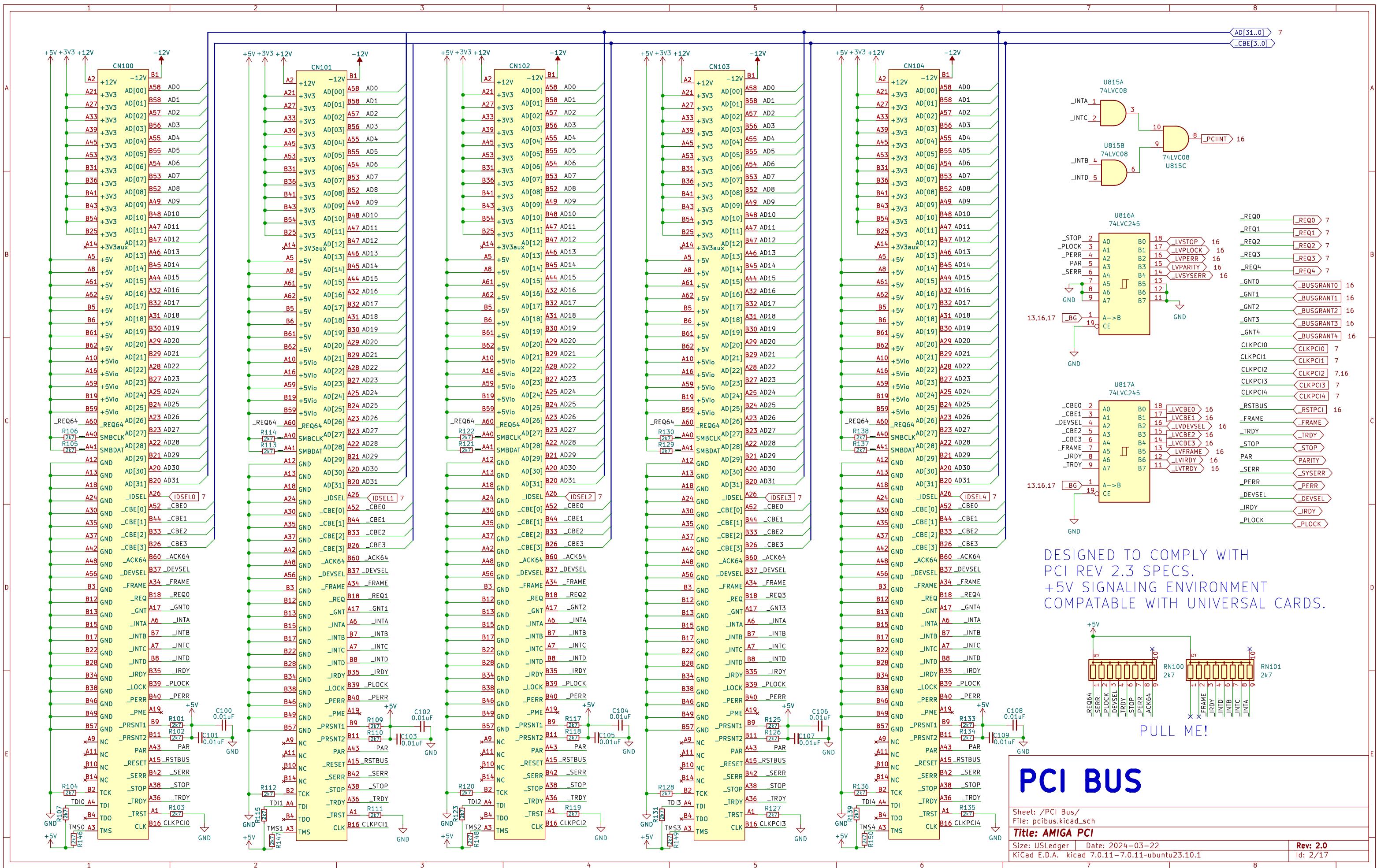
BUDDY

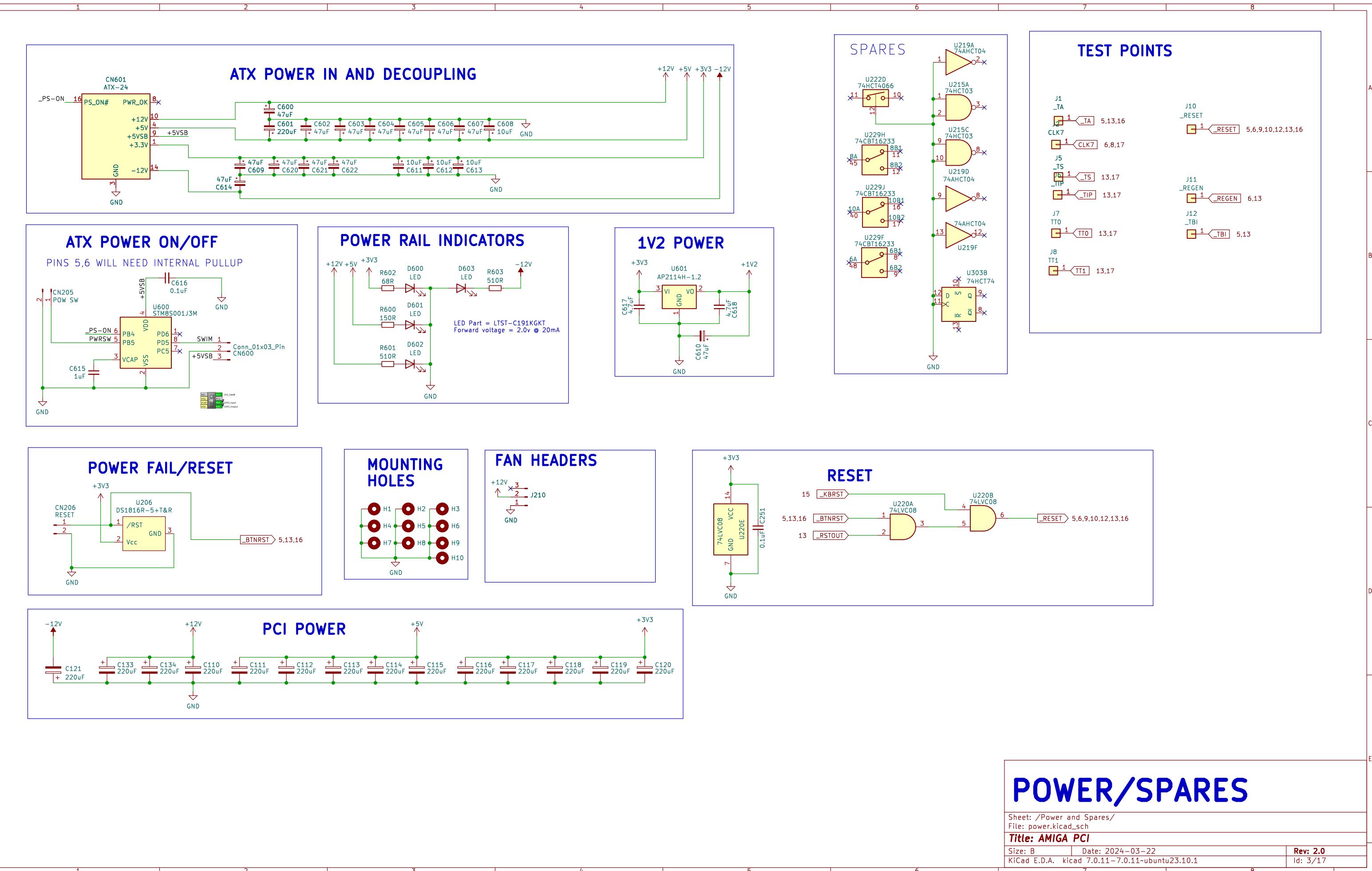
Sheet: /
File: AmigaPCI Mainboard.kicad_sch

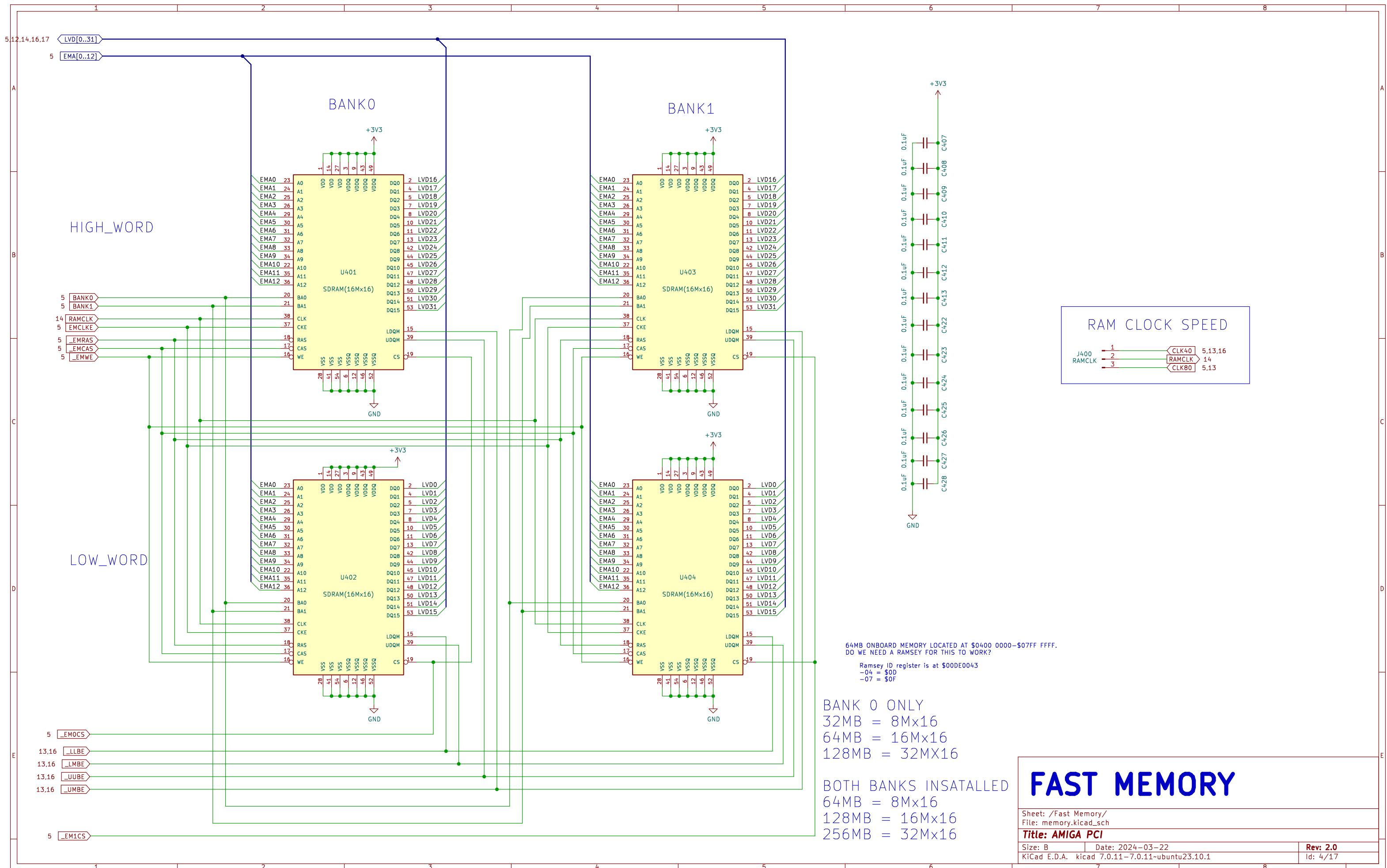
Title: AMIGA PCI

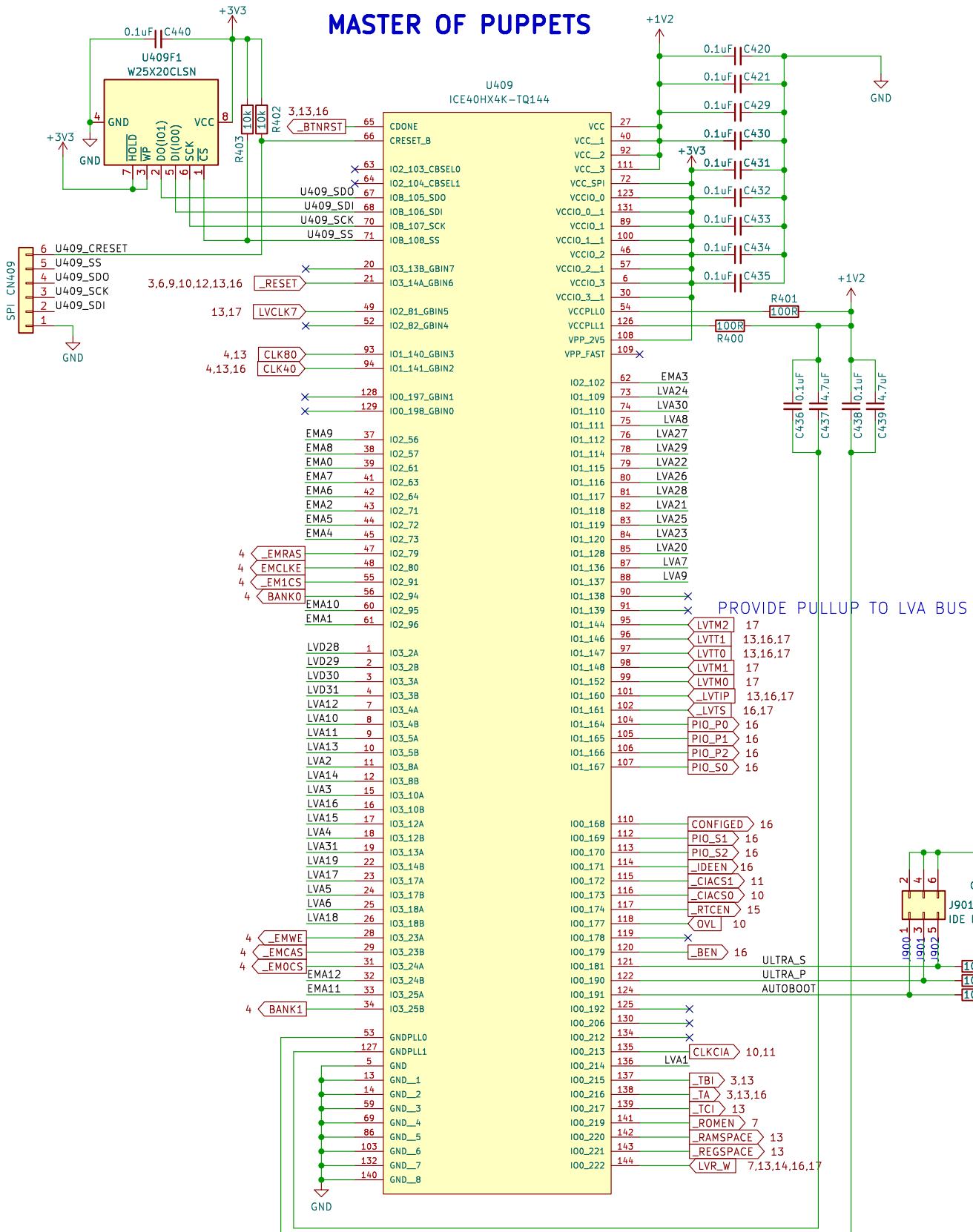
Size: USLetter Date: 2024-03-22
KiCad E.D.A. kicad 7.0.11-7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 1/17

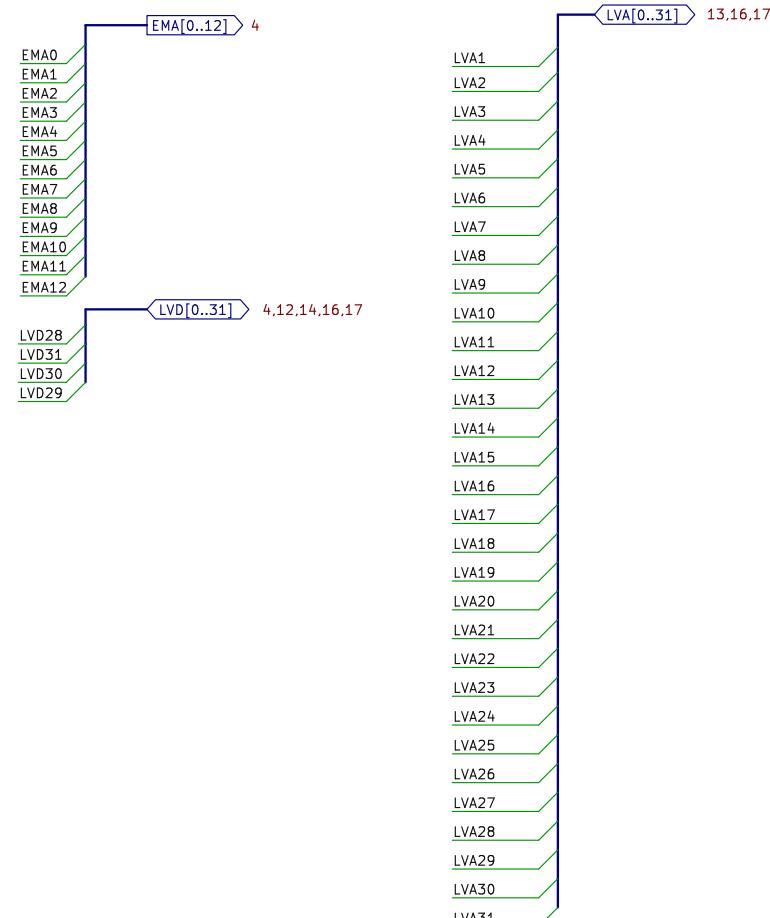








U409 PROVIDES RAM, IDE, AND PCI BRIDGE AUTOCONFIG, ADDRESS DECODE, REPLACEMENT GARY FUNCTIONS, STARTUP AND KEYBOARD RESET, AND FAST RAM CONTROLLER.



MASTER CONTROL

Sheet: /Master Control/
File: bcontroller.kicad_sch
Title: AMIGA PCI
Size: B Date: 2024-03-22
KiCad E.D.A. kicad 7.0.11~ubuntu23.10.1 Rev: 2.0
Id: 5/17

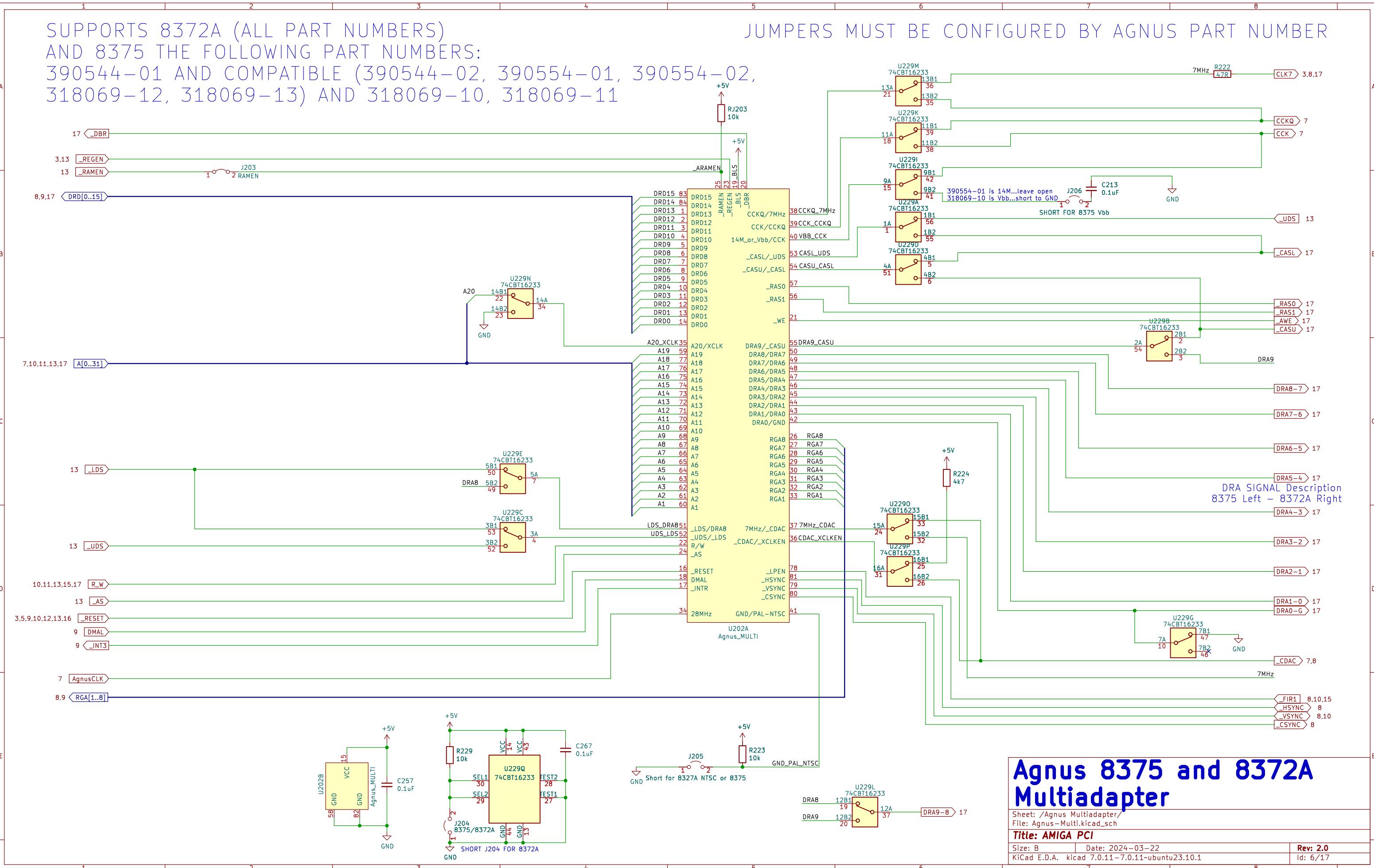
SUPPORTS 8372A (ALL PART NUMBERS)

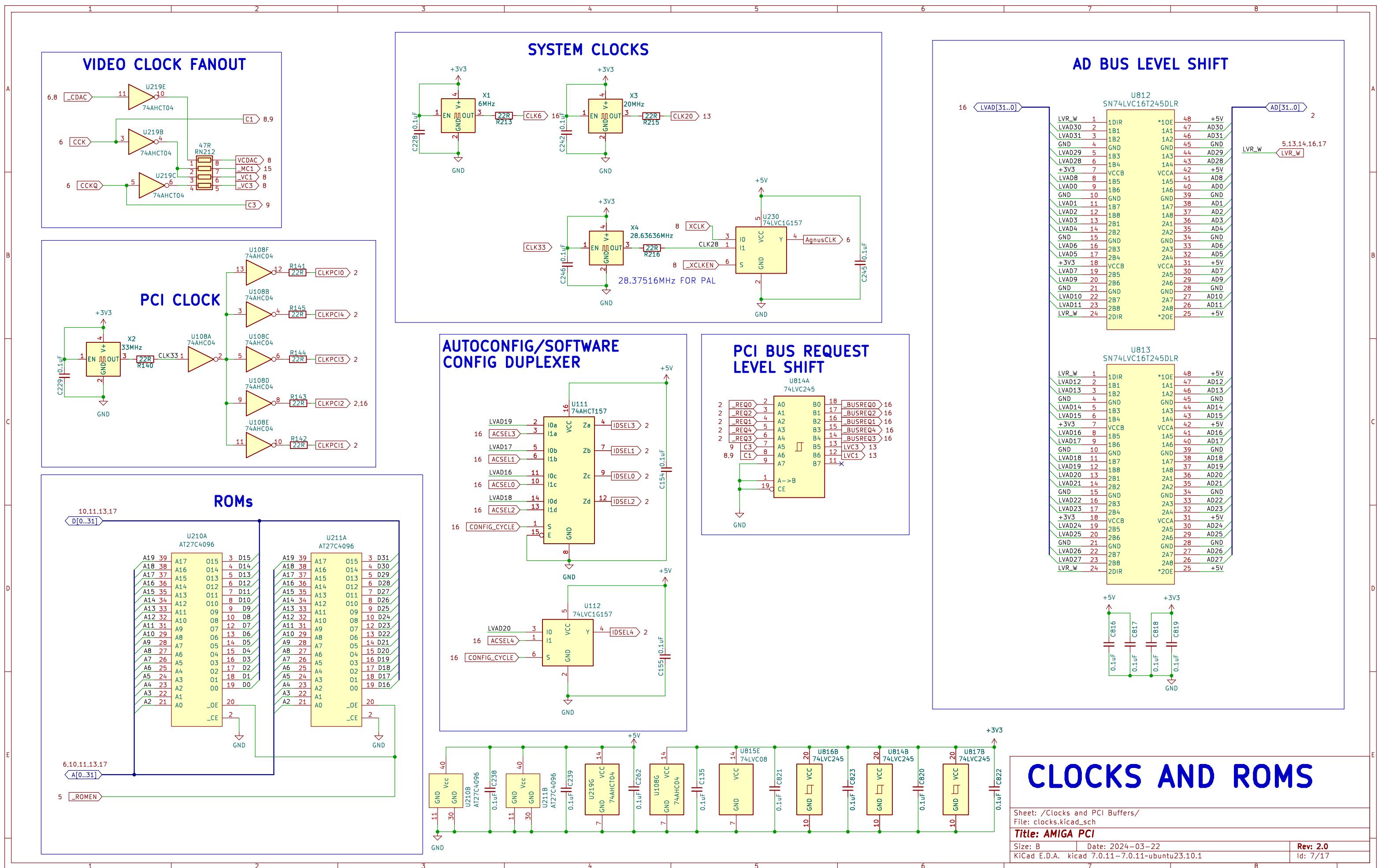
AND 8375 THE FOLLOWING PART NUMBERS:

390544-01 AND COMPATIBLE (390544-02, 390554-01, 390554-02,

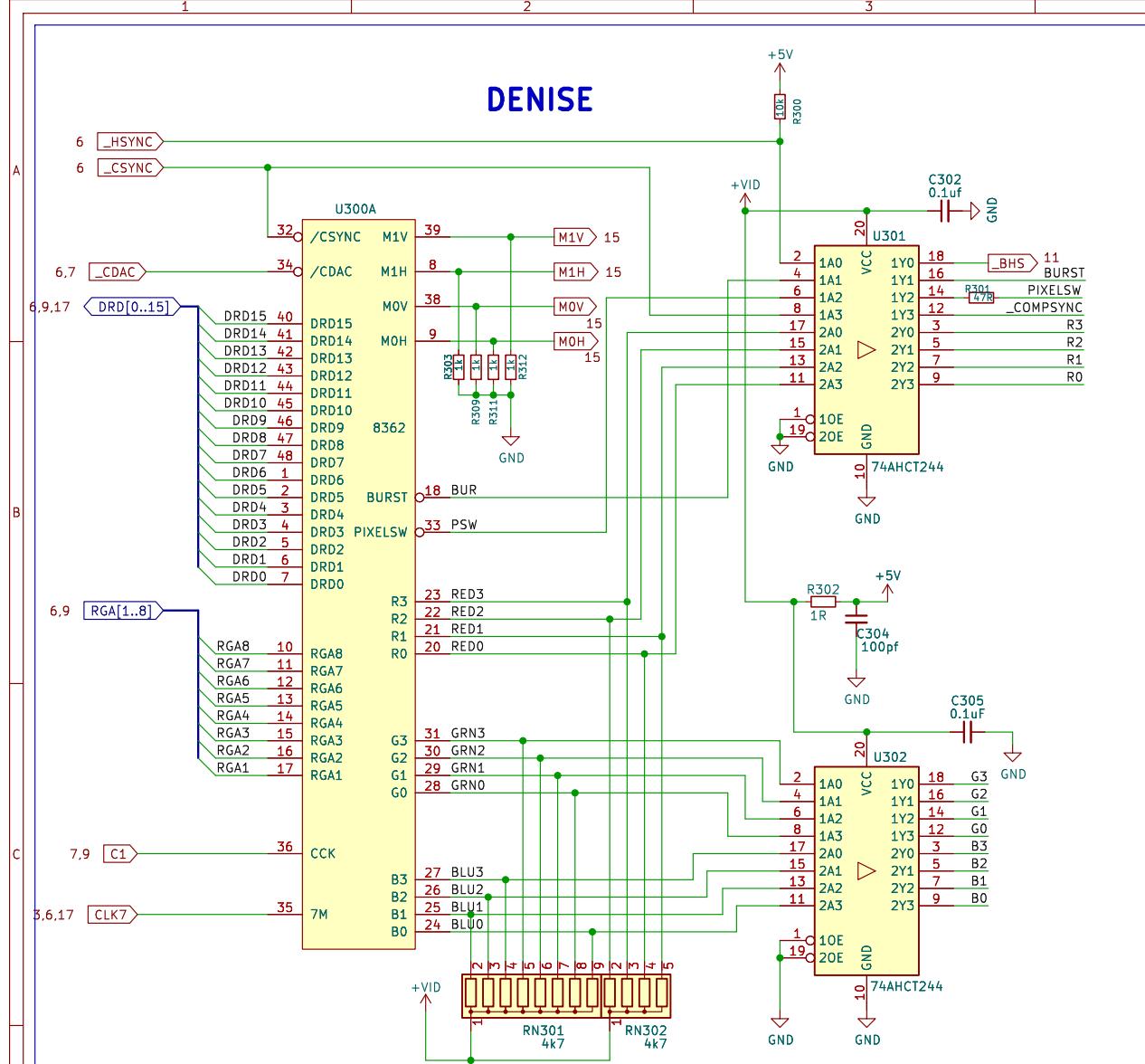
318069-12, 318069-13) AND 318069-10, 318069-11

JUMPERS MUST BE CONFIGURED BY AGNUS PART NUMBER

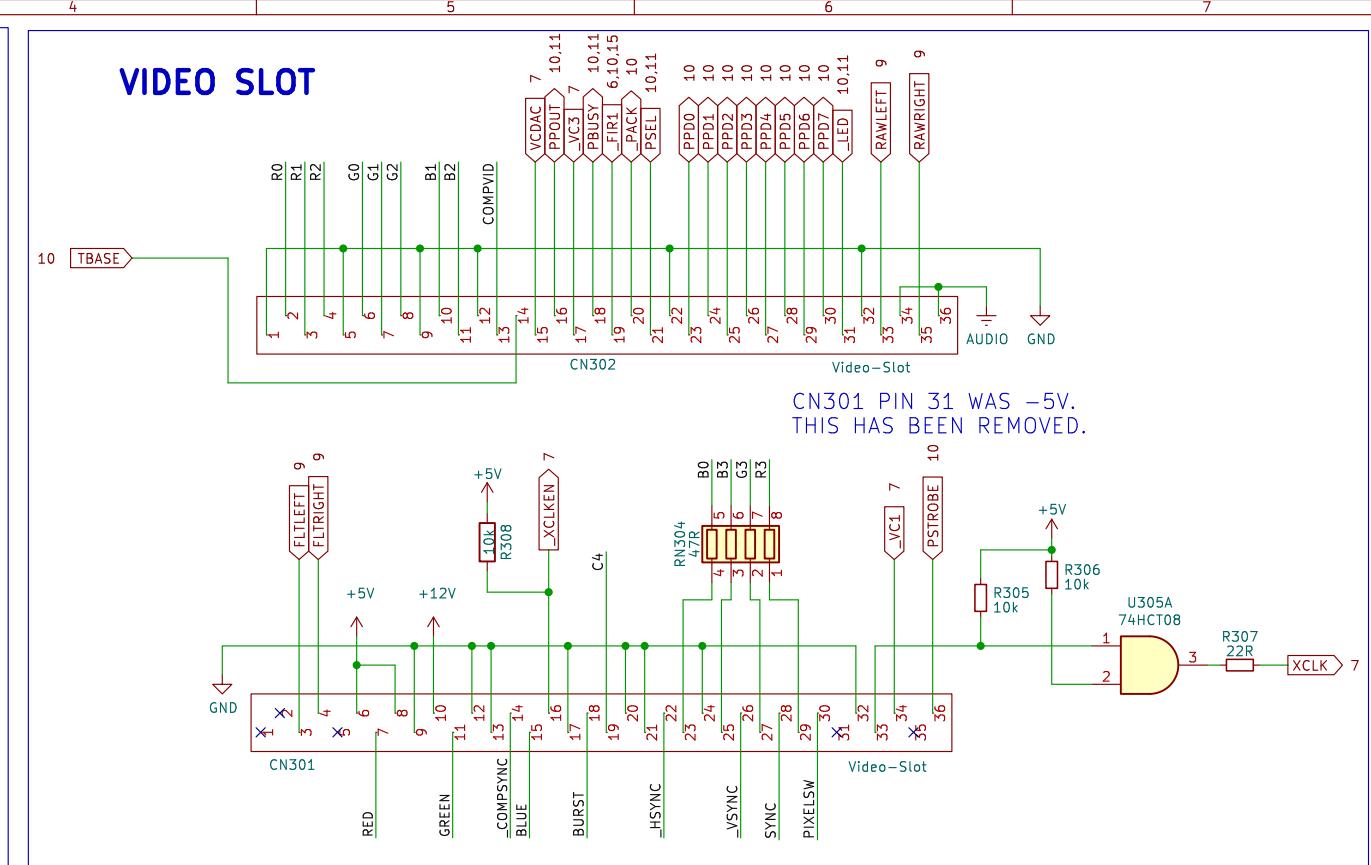




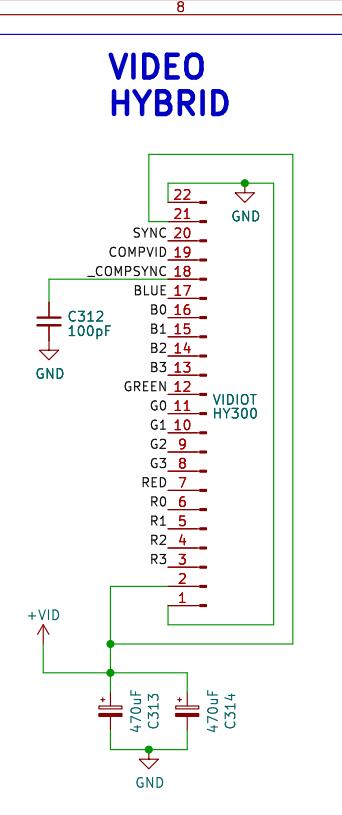
DENISE



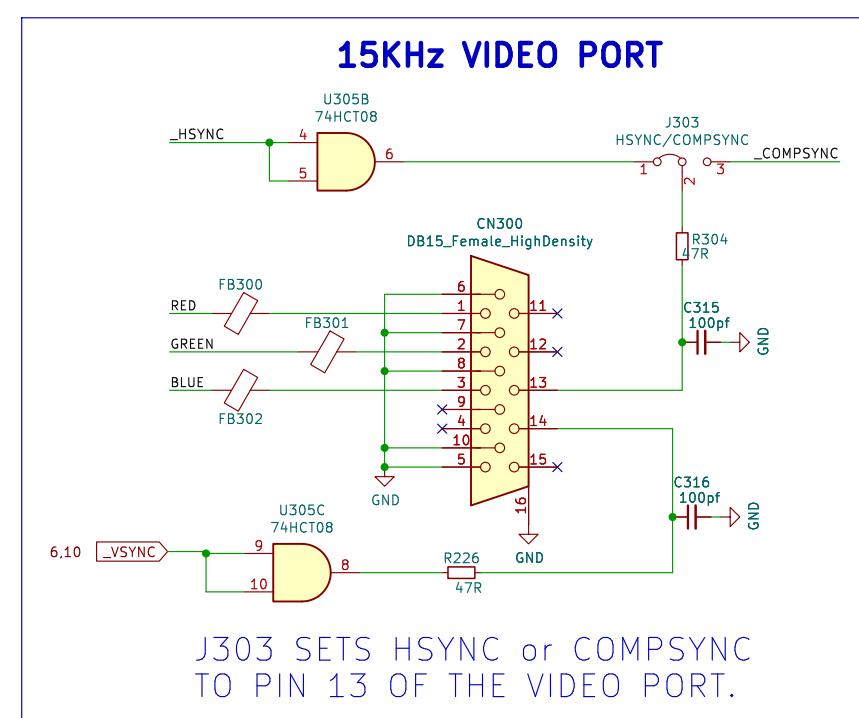
VIDEO SLOT



VIDEO HYBRID



15KHz VIDEO PORT



VIDEO

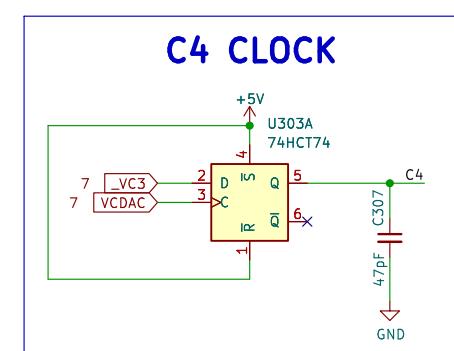
Sheet: /Video/
File: video.kicad_sch

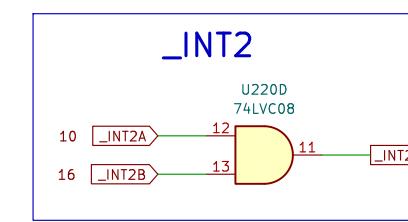
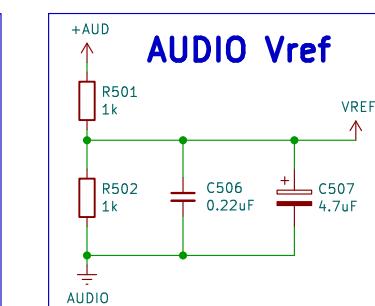
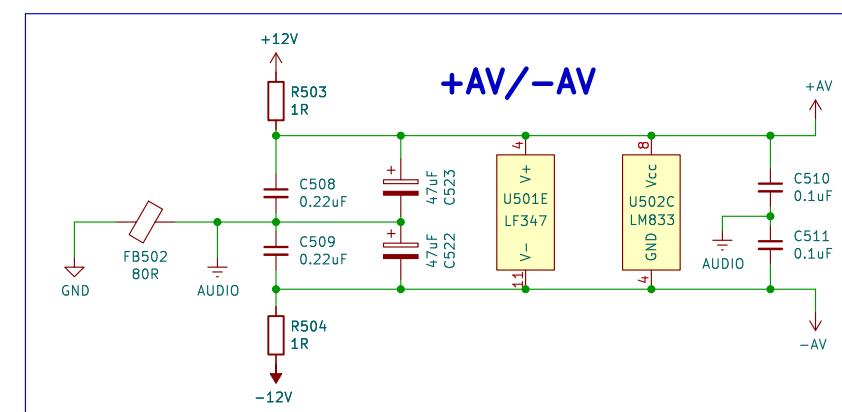
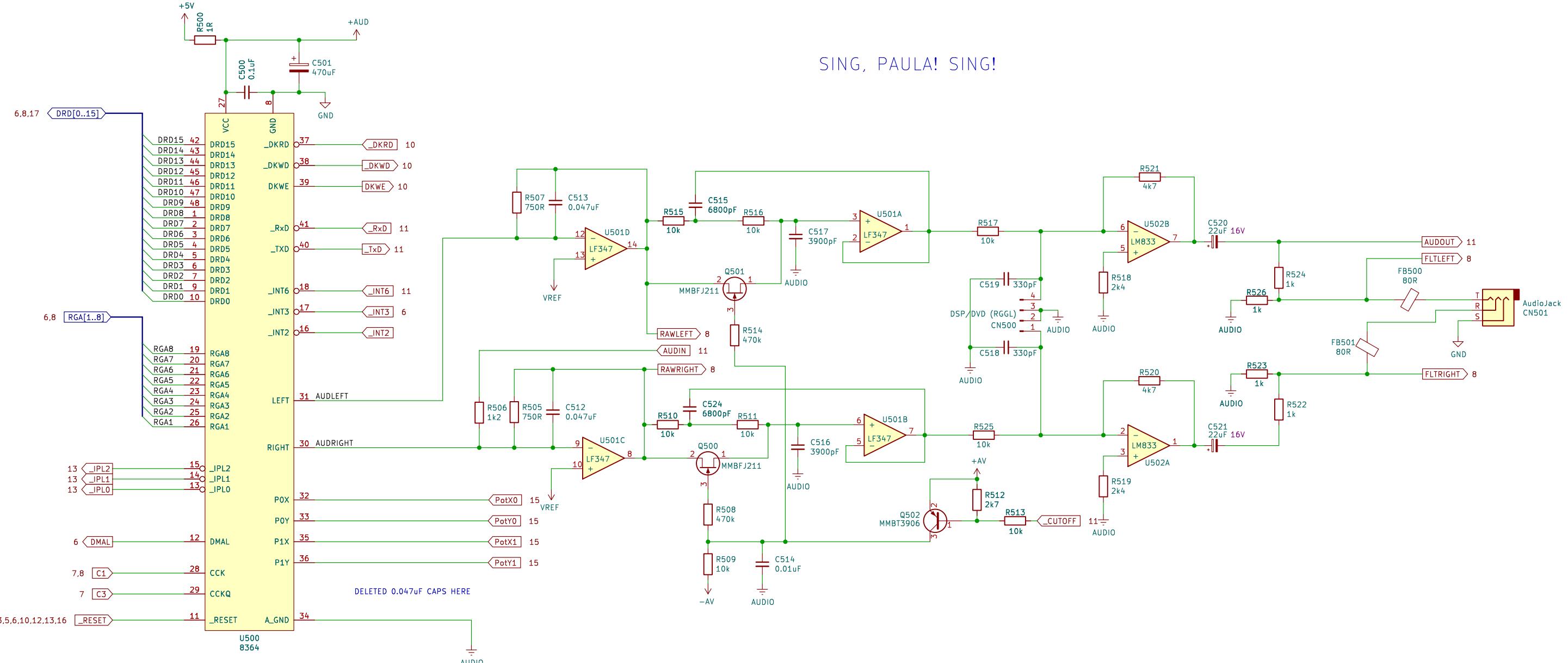
Title: AMIGA PCI

Size: B Date: 2024-03-22
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 8/17

C4 CLOCK



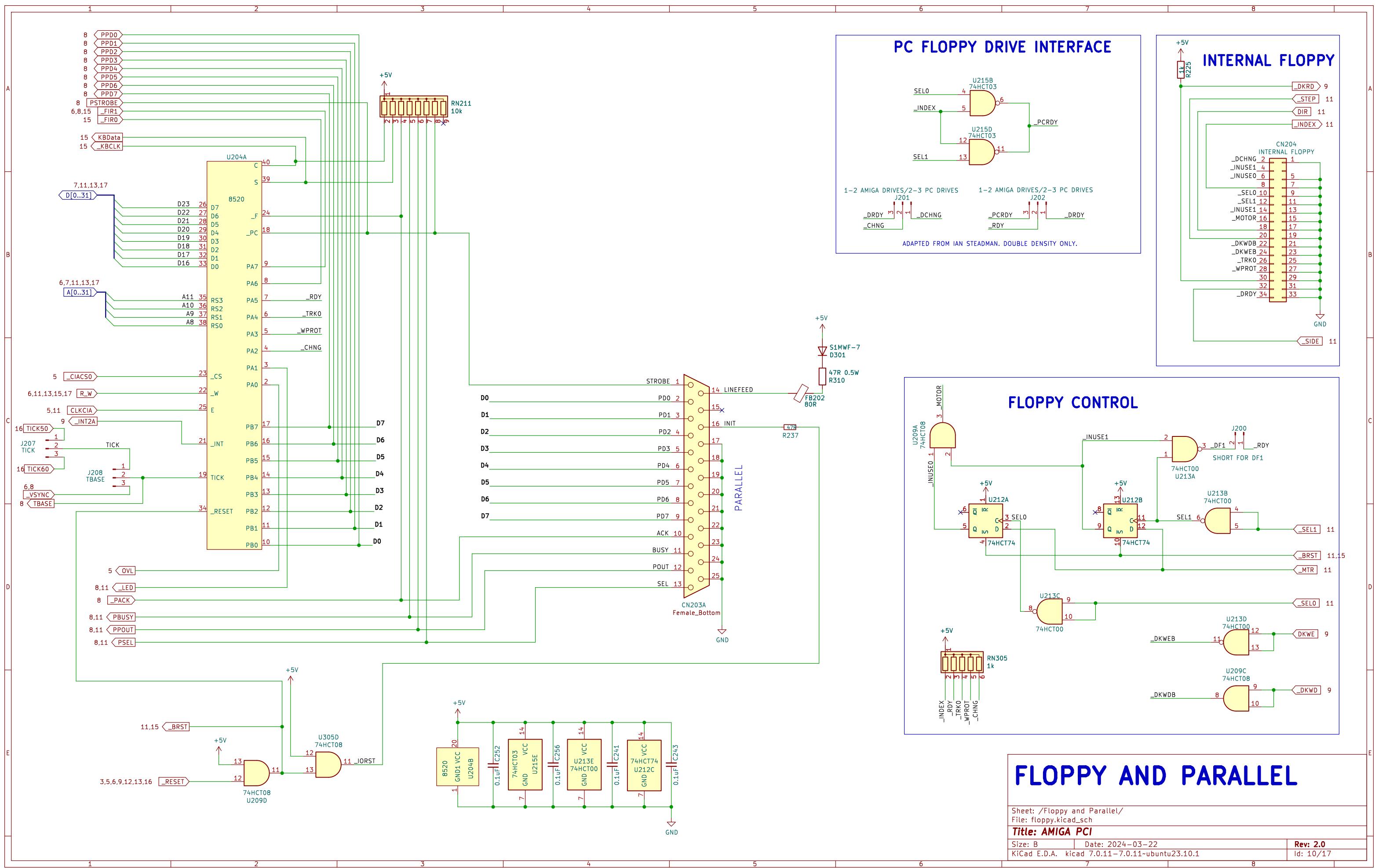


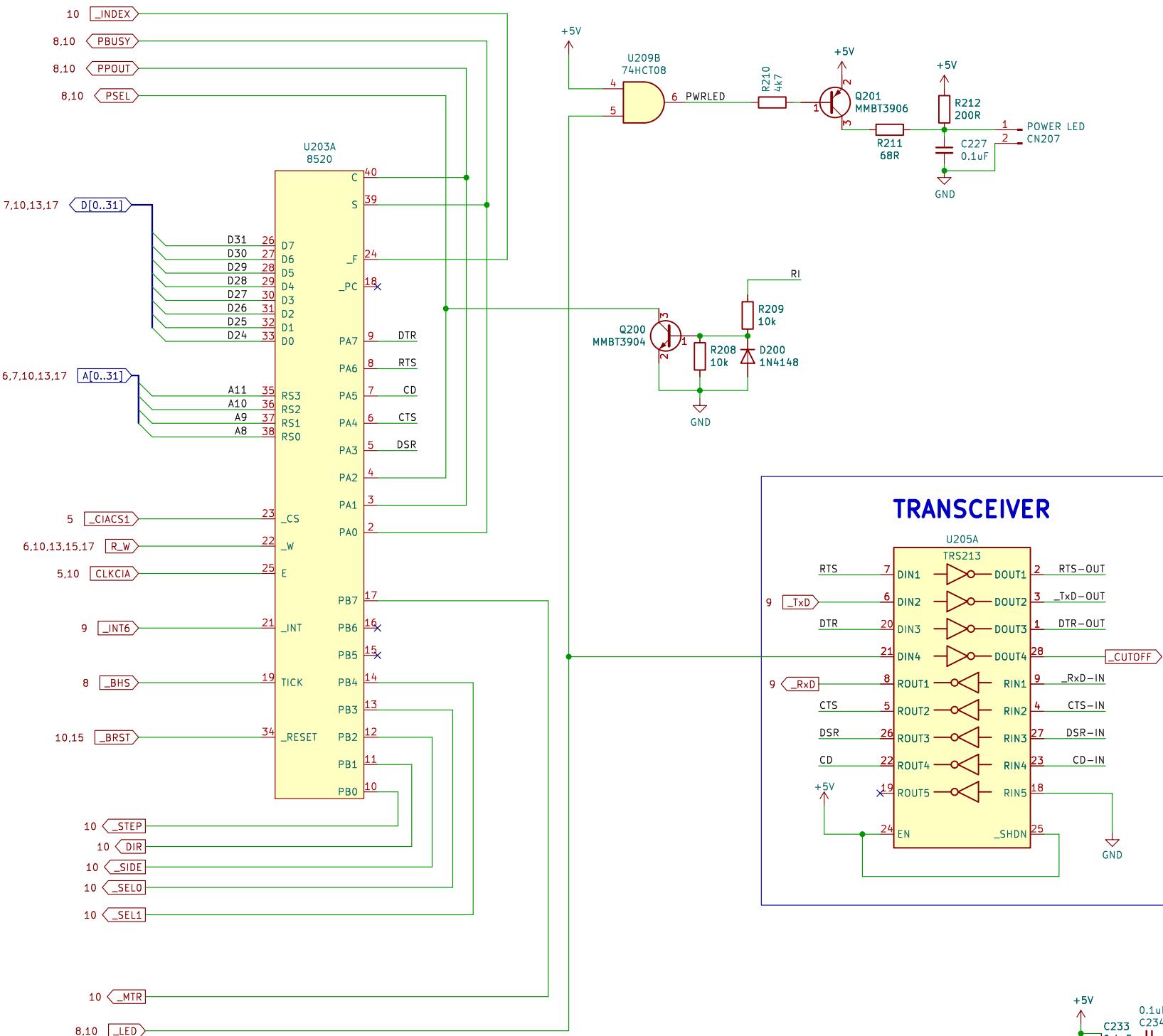
PAULA/AUDIO

Sheet: /Audio/
File: audio.kicad_sch

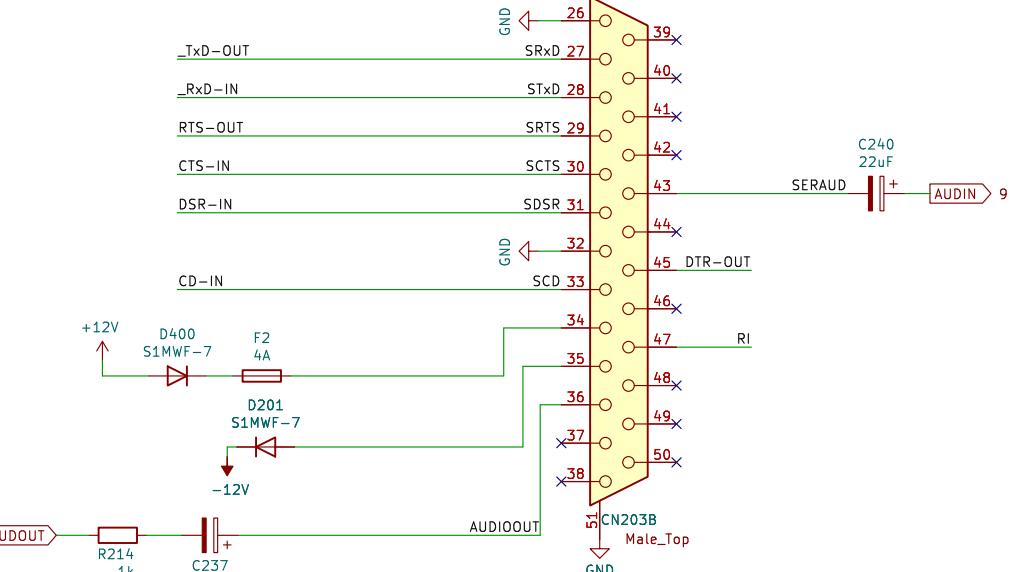
Title: AMIGA PCI	
Size: B	Date: 2024-03-22
VGA	PCI

Rev: 2.0





SERIAL PORT



SERIAL

Sheet: /Serial/
File: serial.kicad_sch
Title: AMIGA PCI
Size: B Date: 2024-03-22
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 11/17

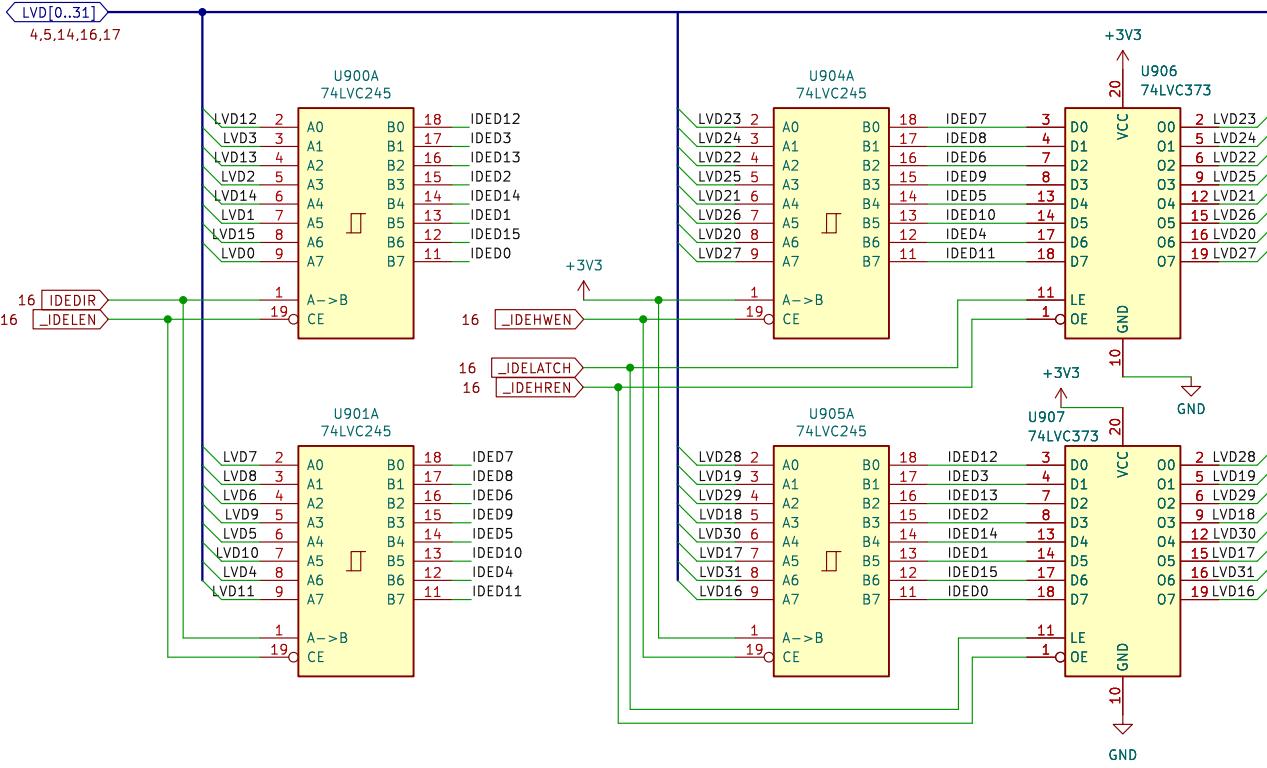
74LVC245 ENABLED FOR FIRST WORD DURING WRITES.
DATA ALWAYS FLOWS A->B.

74LVC373 LATCHES DATA FOR FIRST WORD DURING READS.

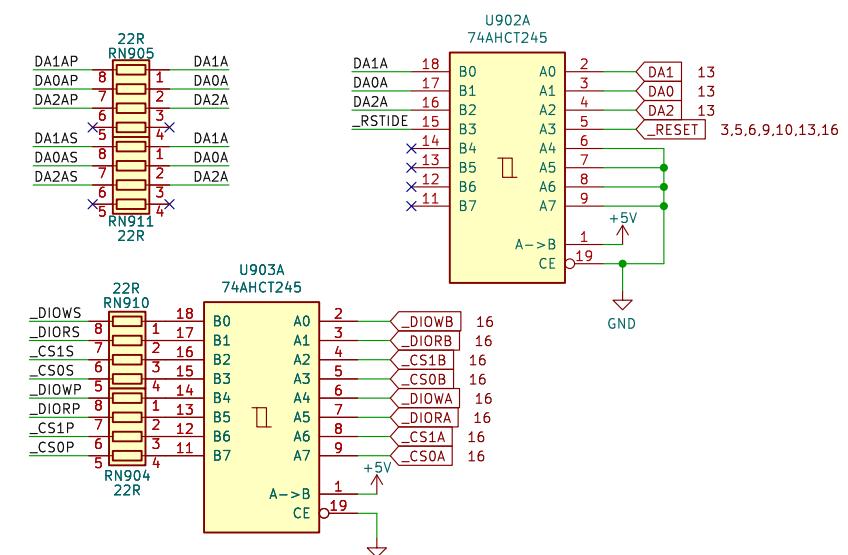
DATA BUFFERS

DURING WRITE CYCLES, ALL DATA IS REAL-TIME.
FOR THE FIRST WRITE COMMAND, D16..31 IS ENABLED.
FOR THE SECOND WRITE COMMAND, D0..15 IS ENABLED.

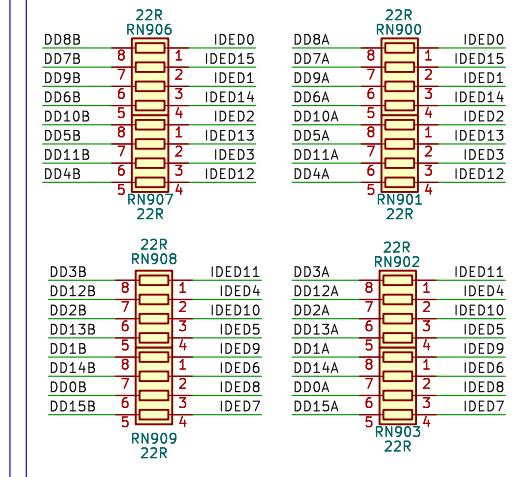
DURING READ CYCLES, D16..31 IS LATCHED
AFTER THE FIRST READ COMMAND FROM THE IDE DEVICE.
THE SECOND READ FROM THE IDE DEVICE DRIVES
D0..15 LIVE. THE DATA IS THEN LATCHED BY THE MC68040.



BUFFERS AND TERMINATION

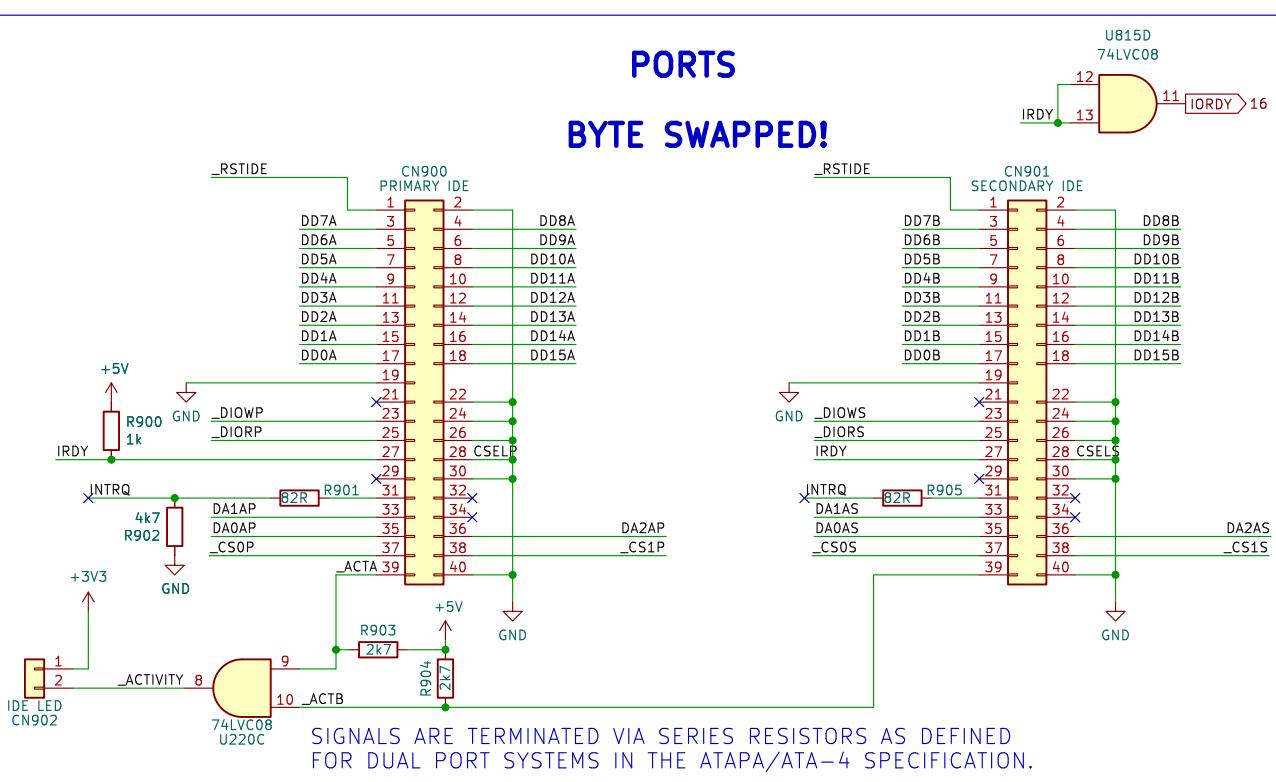


DATA TERMINATION



PORTS

BYTE SWAPPED!



SIGNALS ARE TERMINATED VIA SERIES RESISTORS AS DEFINED
FOR DUAL PORT SYSTEMS IN THE ATAPA/ATA-4 SPECIFICATION.

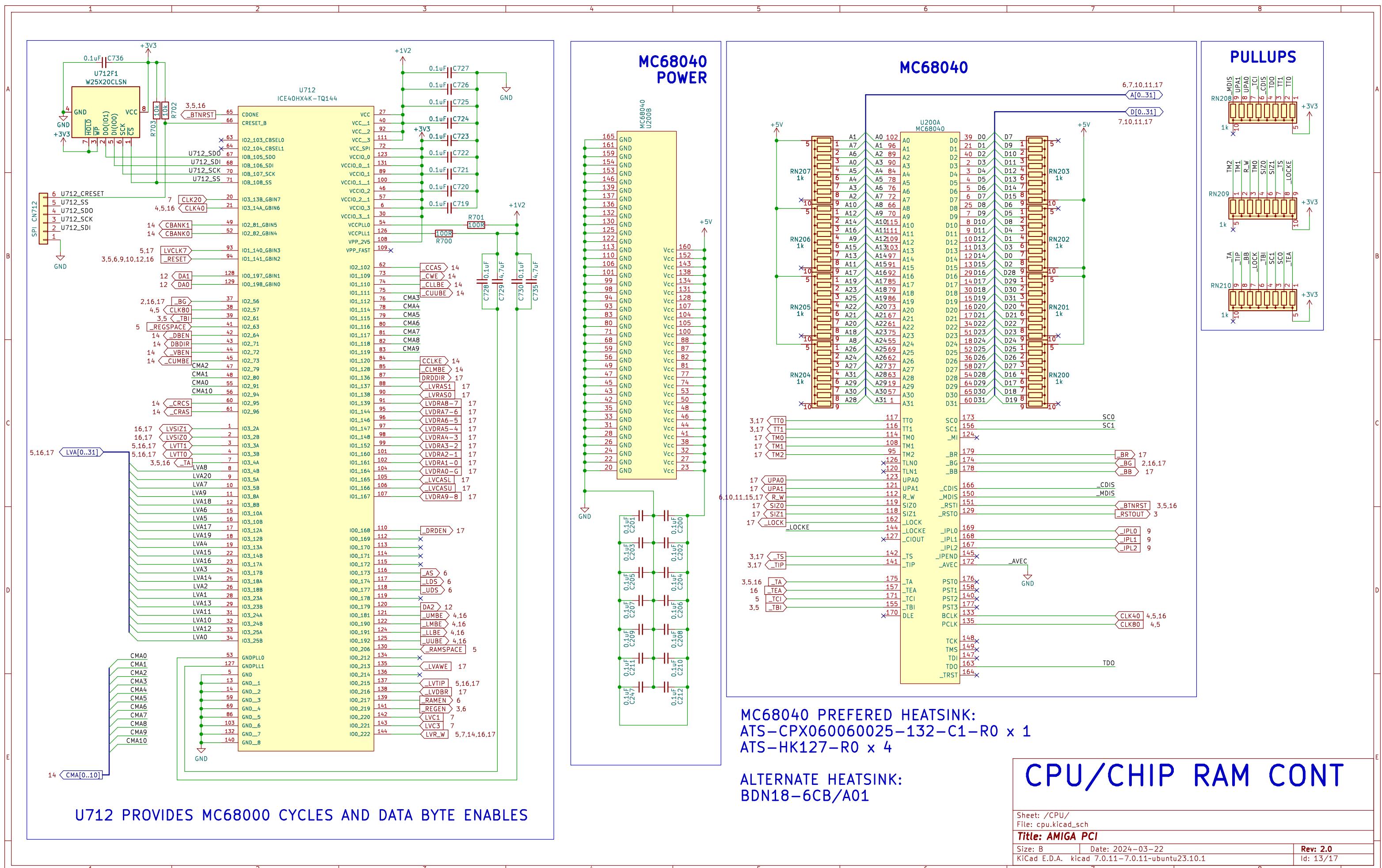
IDE INTERFACE

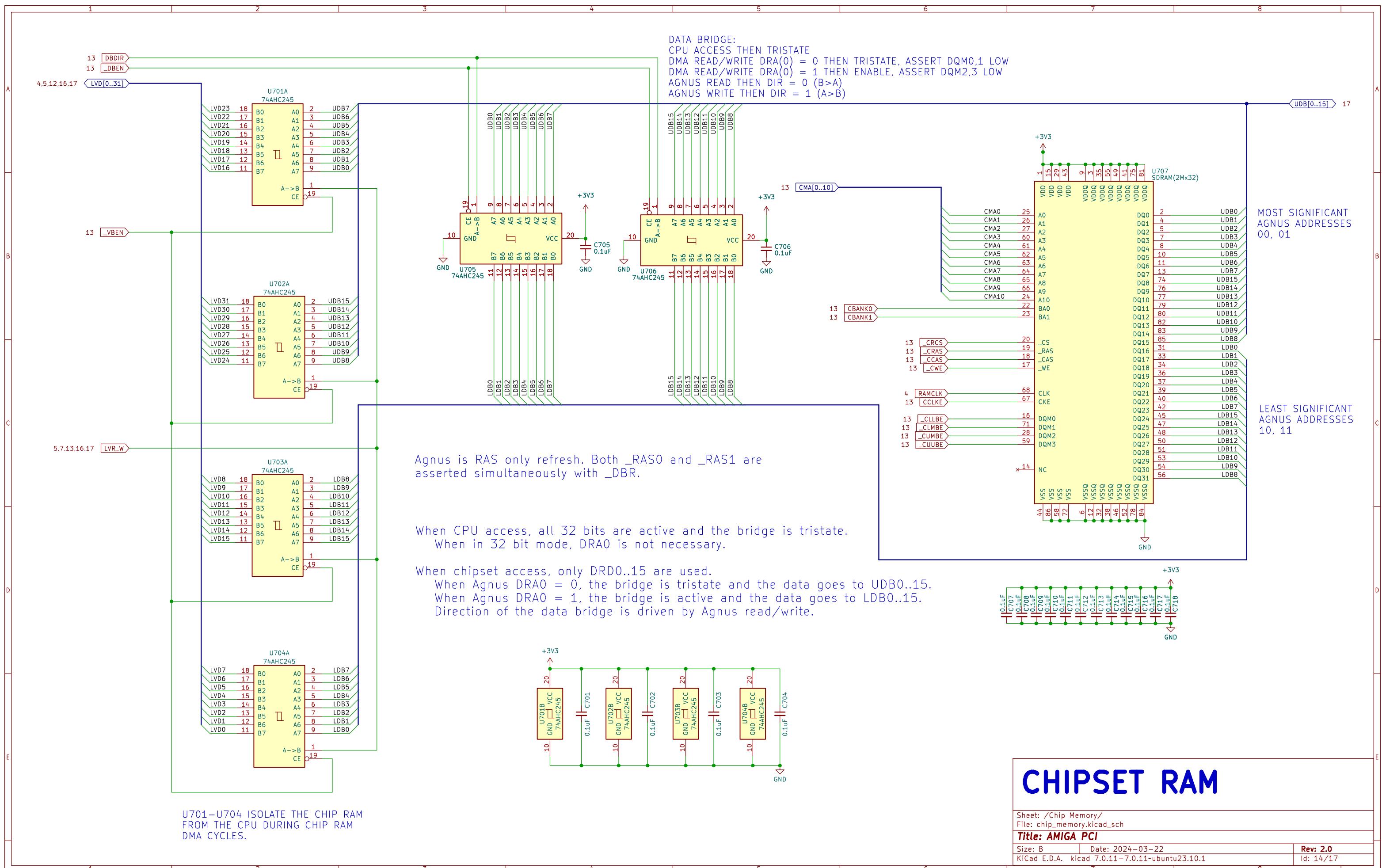
Sheet: /IDE Interface/
File: IDE.kicad_sch

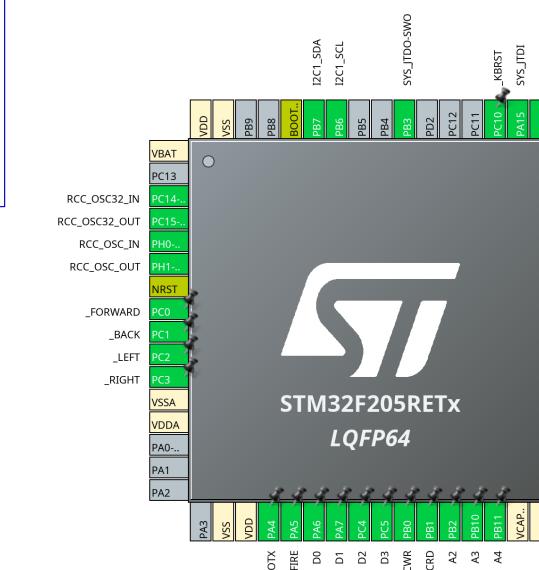
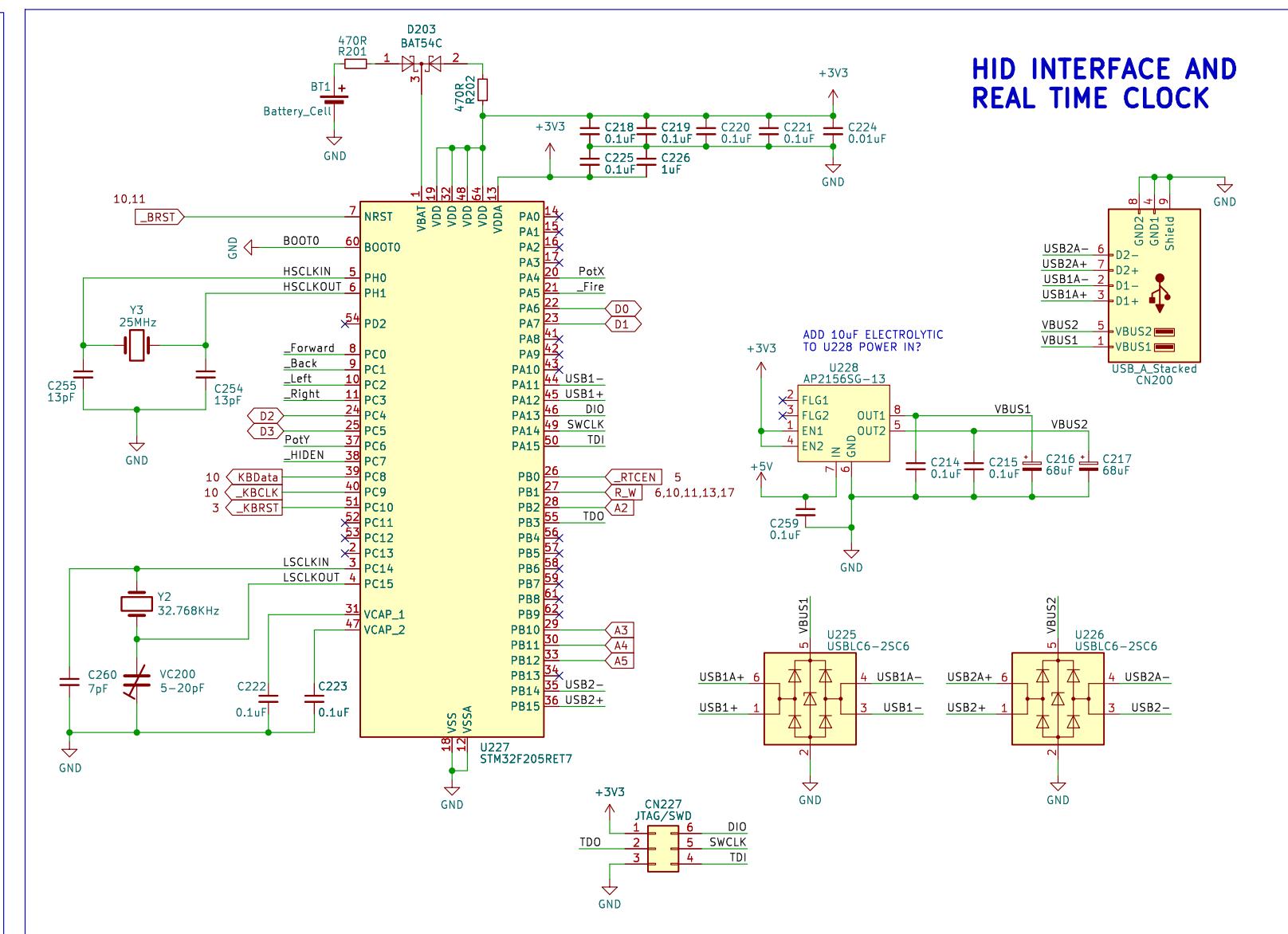
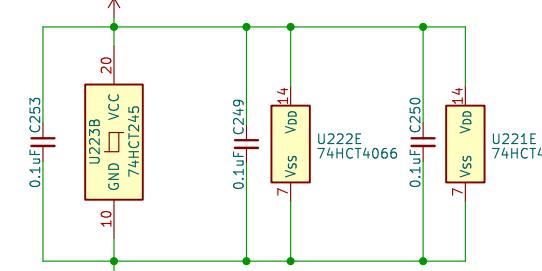
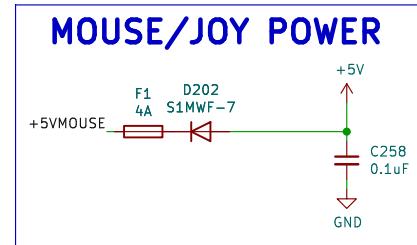
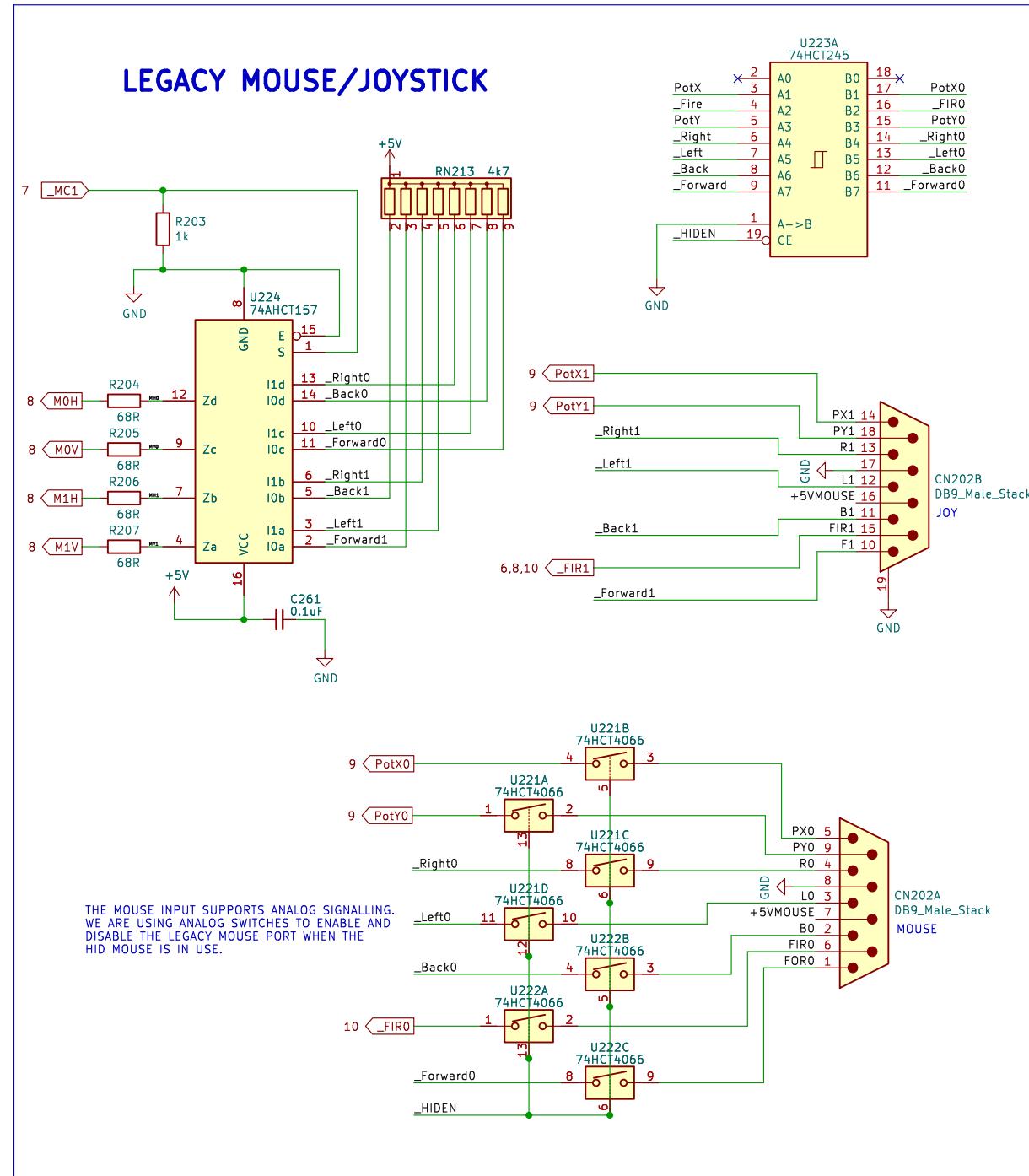
Title: AMIGA PCI

Size: B Date: 2024-03-22
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 12/17







HID and USER PORTS

Sheet: /HID and User Ports/
File: hid.kicad_sch

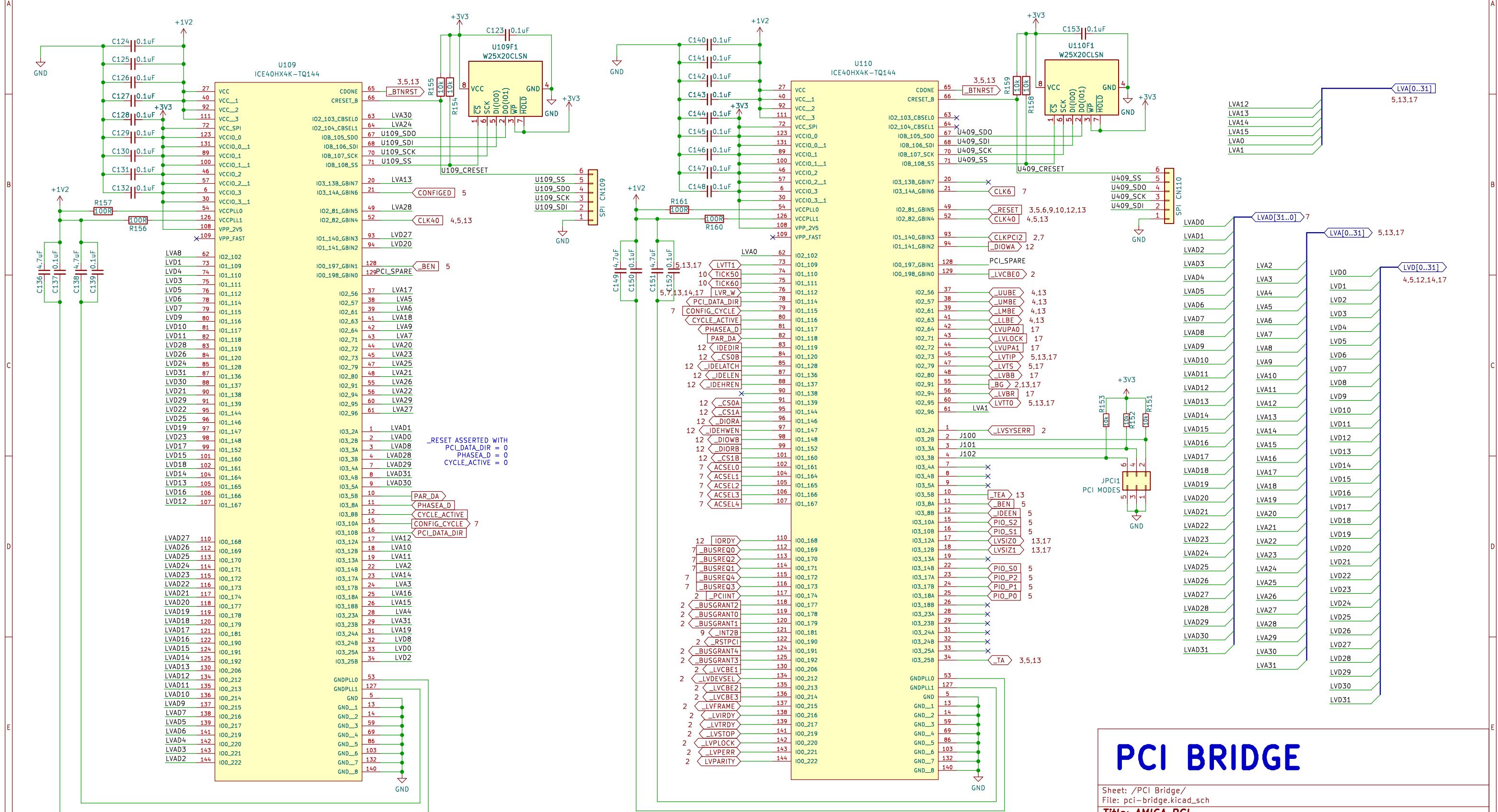
Title: AMIGA PCI

Size: B Date: 2024-03-22
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 15/17

U109: BUFFERS AD/D/A BUSSES, AD PARITY CALC, AUTOCONFIG, BRIDGE REGISTERS

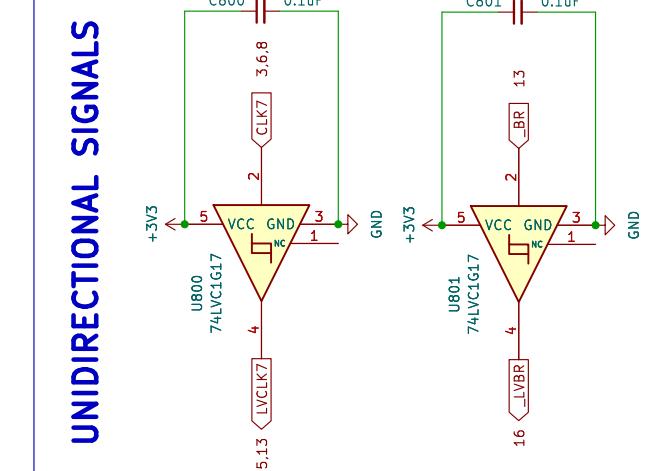
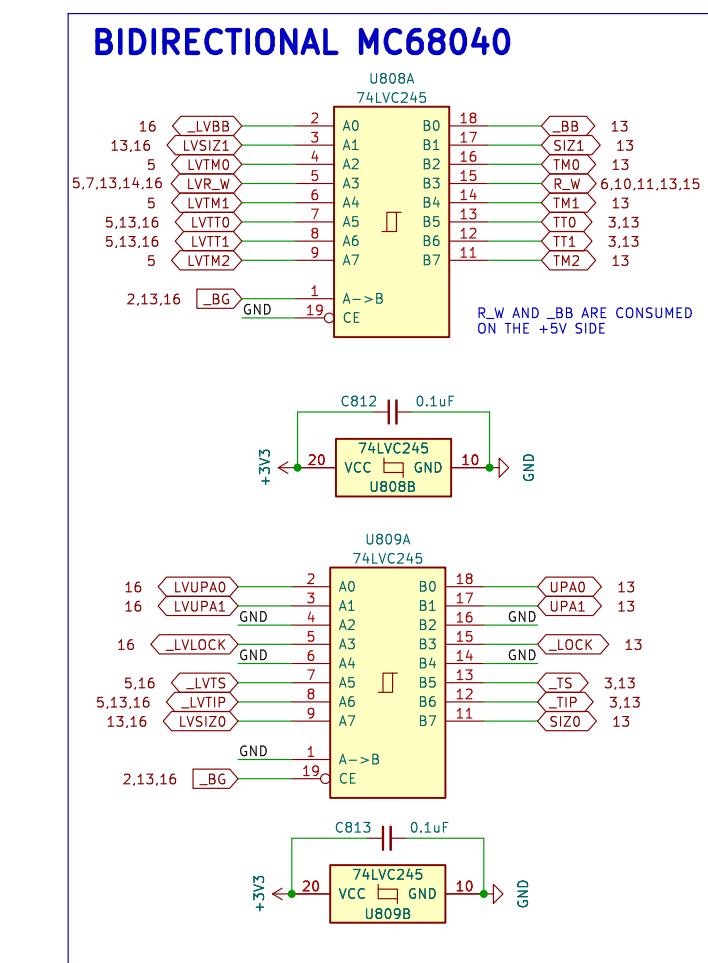
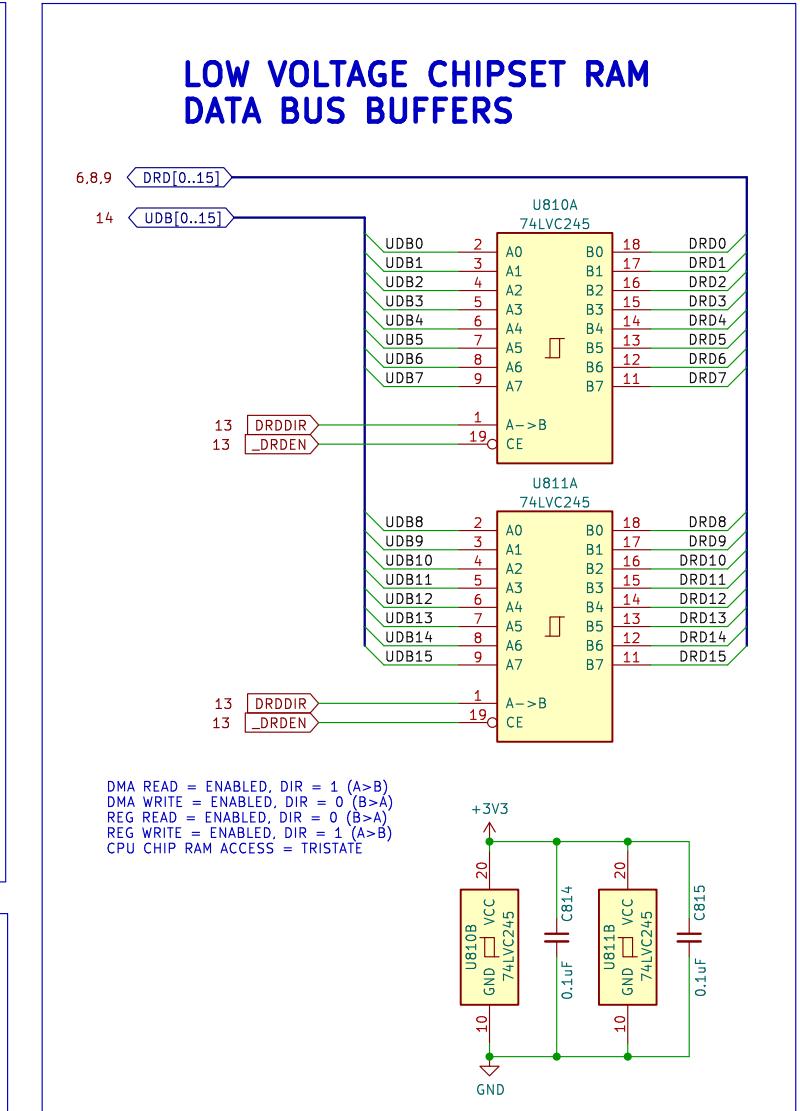
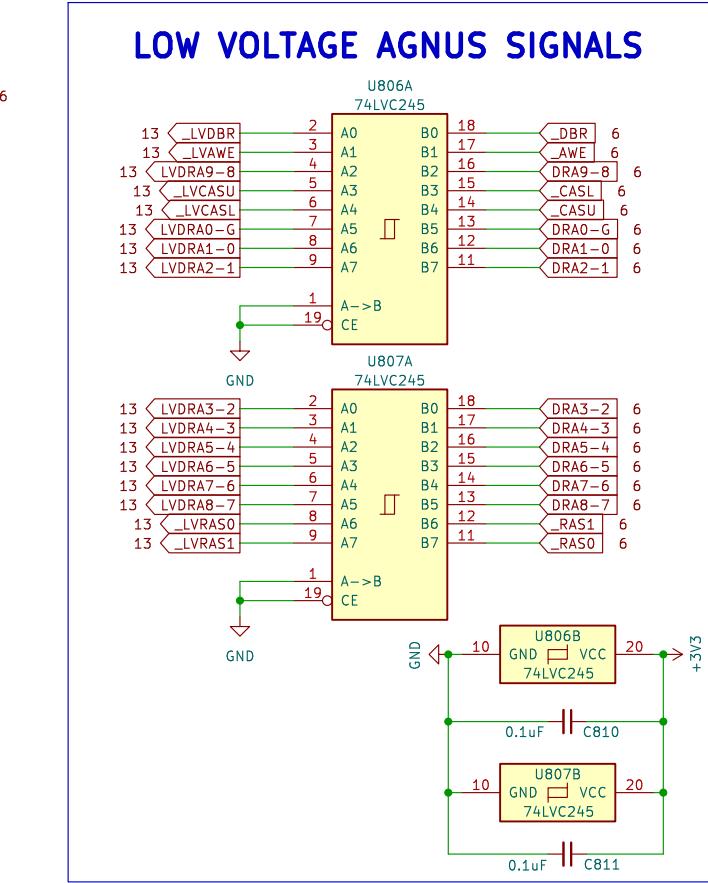
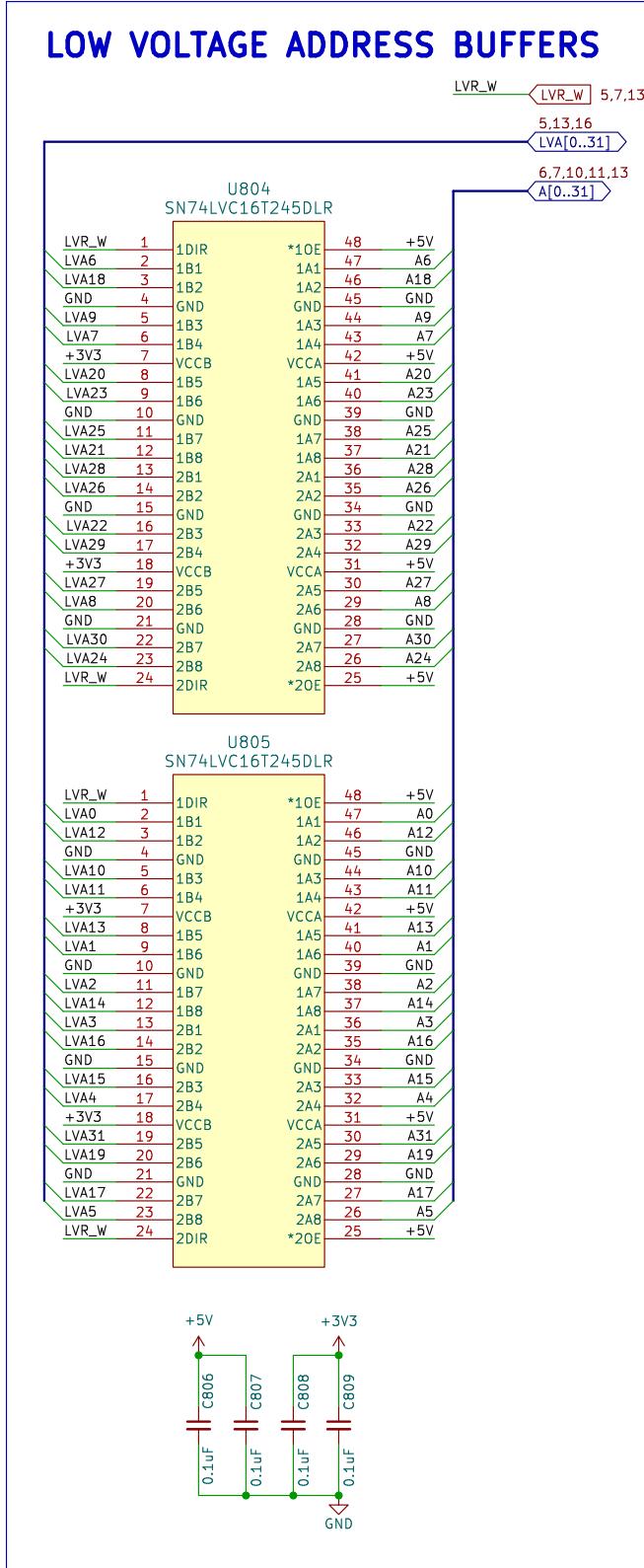
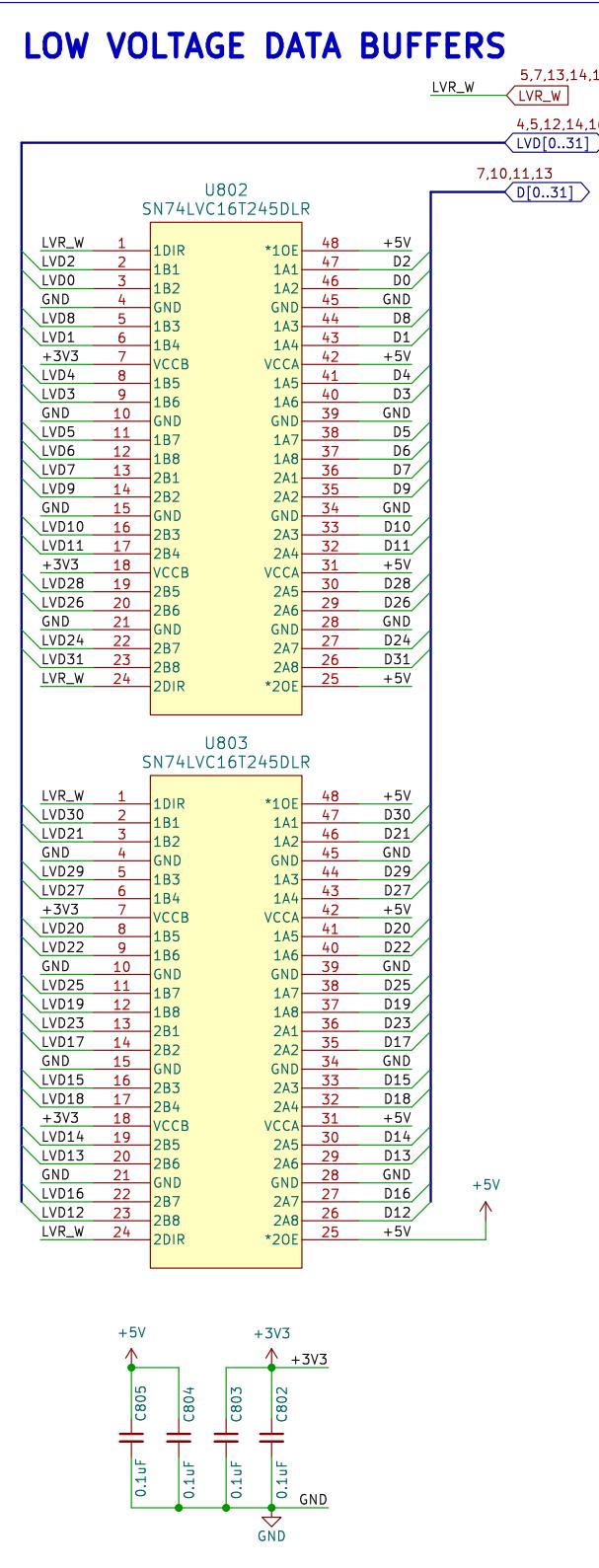
U110: PCI STATE MACHINE, BUS ARBITRATOR, INTERRUPT HANDLING, PARITY ERROR DETECTION, IDE CONTROLLER



PCI BRIDGE

Sheet: /PCI Bridge/
File: pci-bridge.kicad_sch

Title: AMIGA PCI



MC68040 LEVEL SHIFT

Sheet: /MC68040_Level Shift/
File: mc68040_level_shift.kicad_sch
Title: AMIGA PCI
Size: B Date: 2024-03-22 Rev: 2.0
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1 Id: 17/17