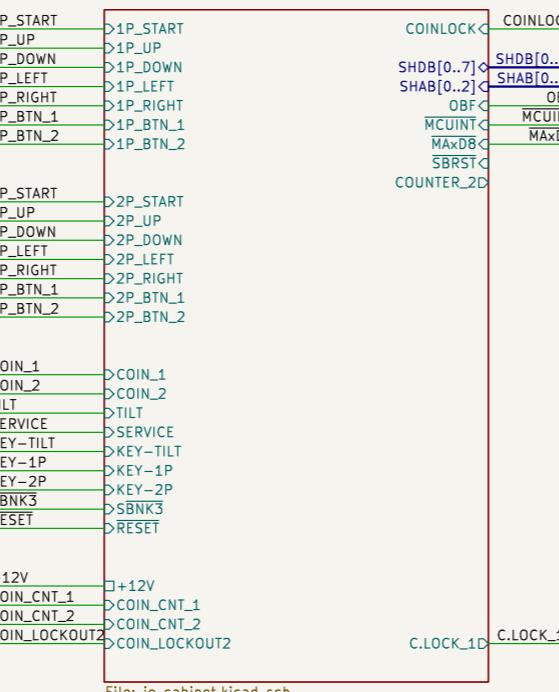
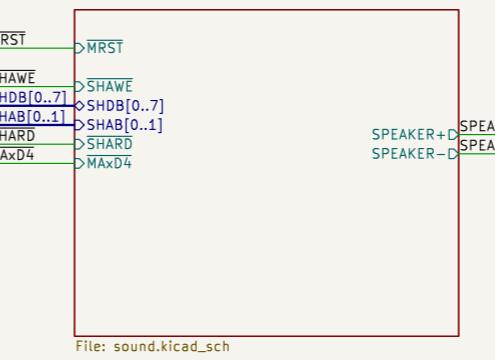


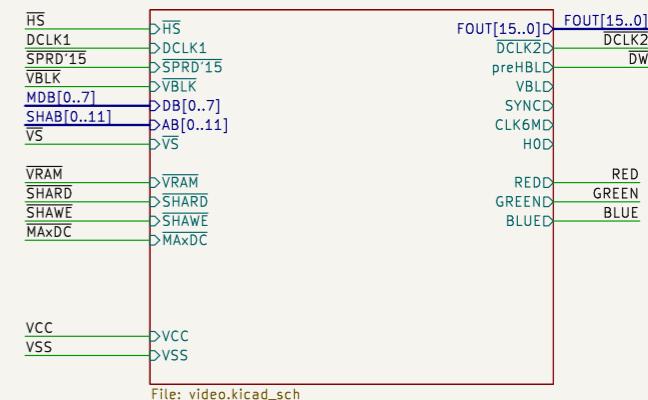
Cabinet



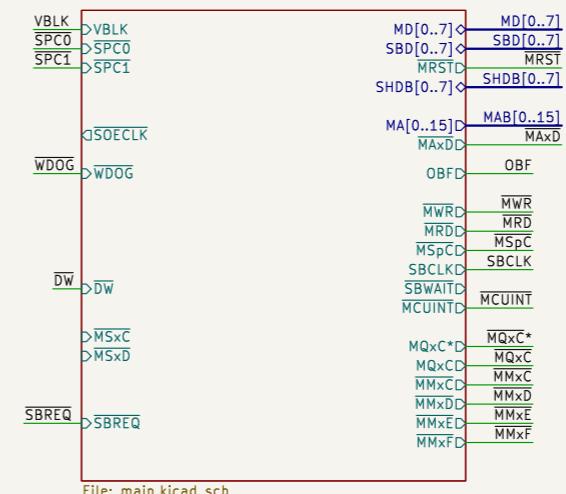
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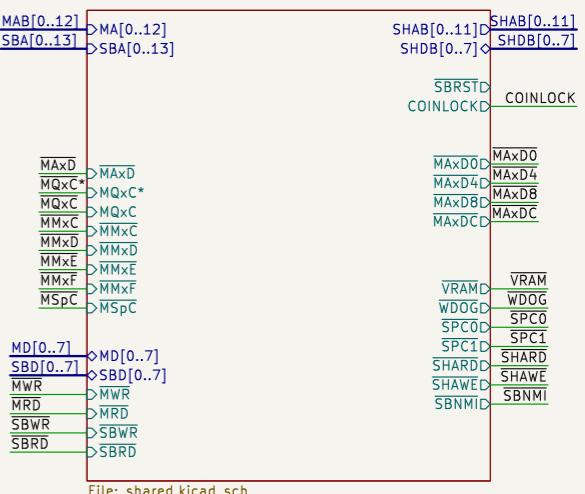
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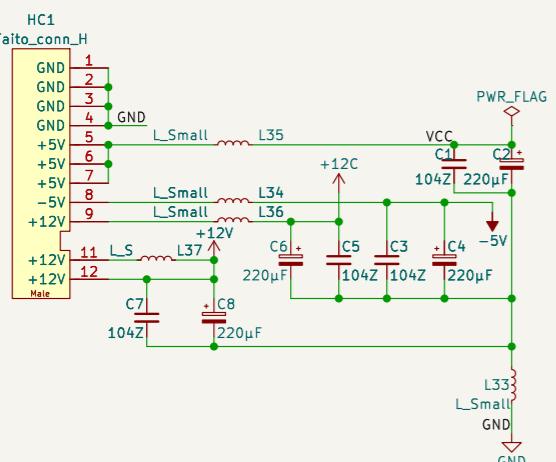
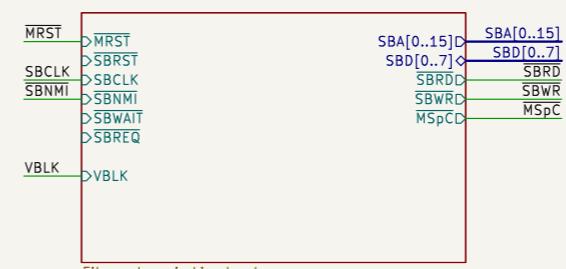
Main



Shared



Sub



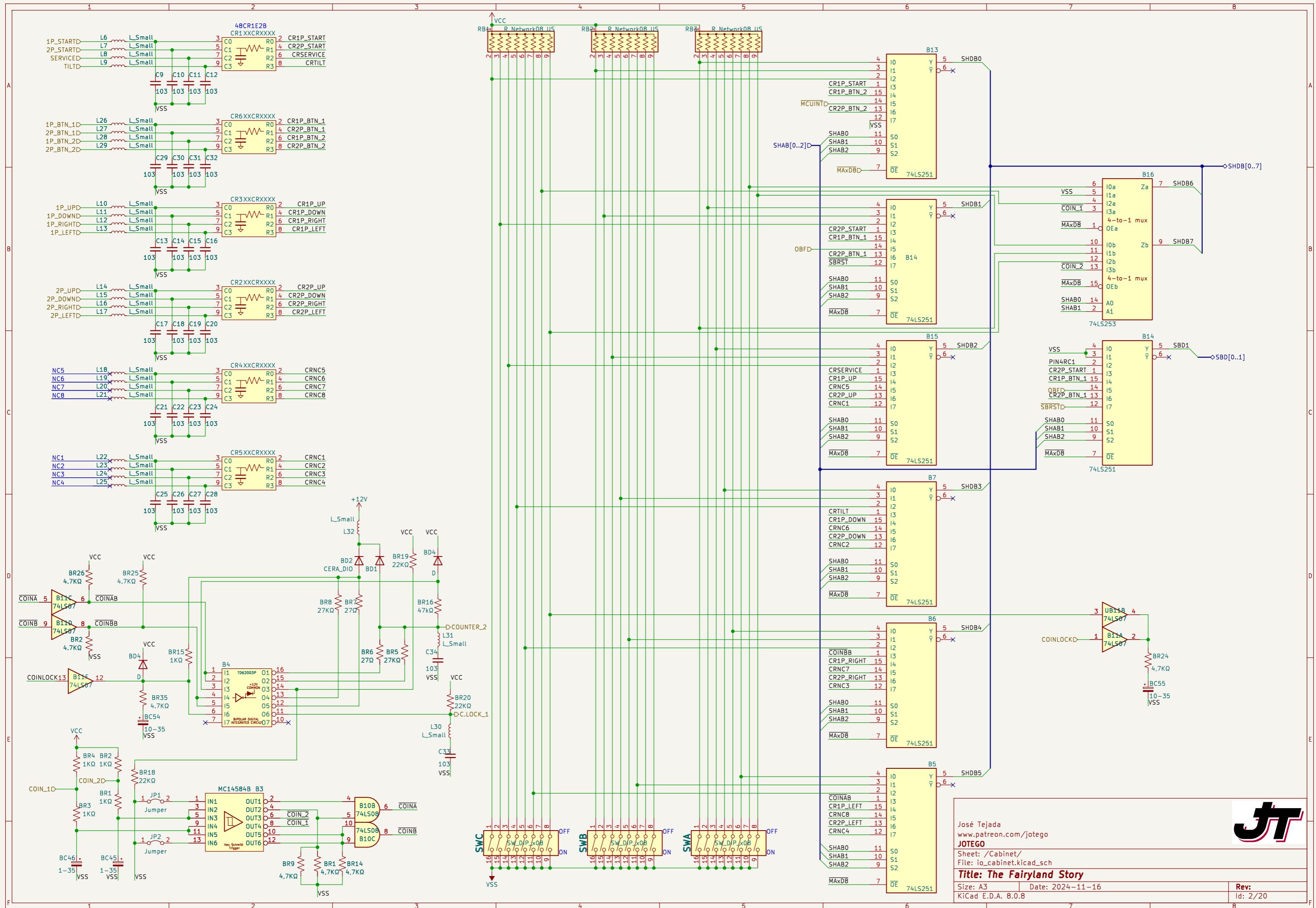
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Sheet: /
File: fairyland.kicad_sch

Title: The Fairyland Story

Size: A3 | Date: 2024-11-16
KiCad E.D.A. 8.0.8

Rev:
Id: 1/20



A

A

B

B

C

C

D

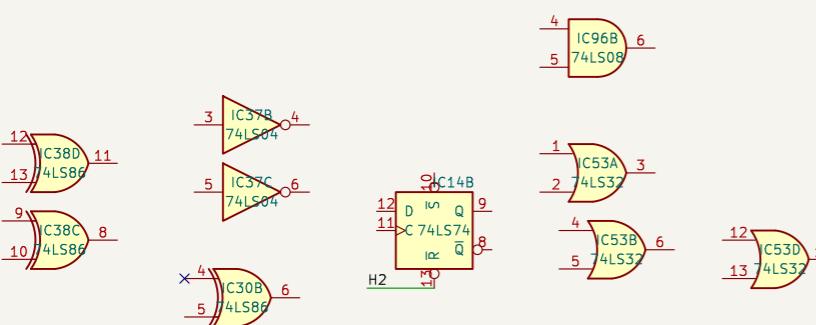
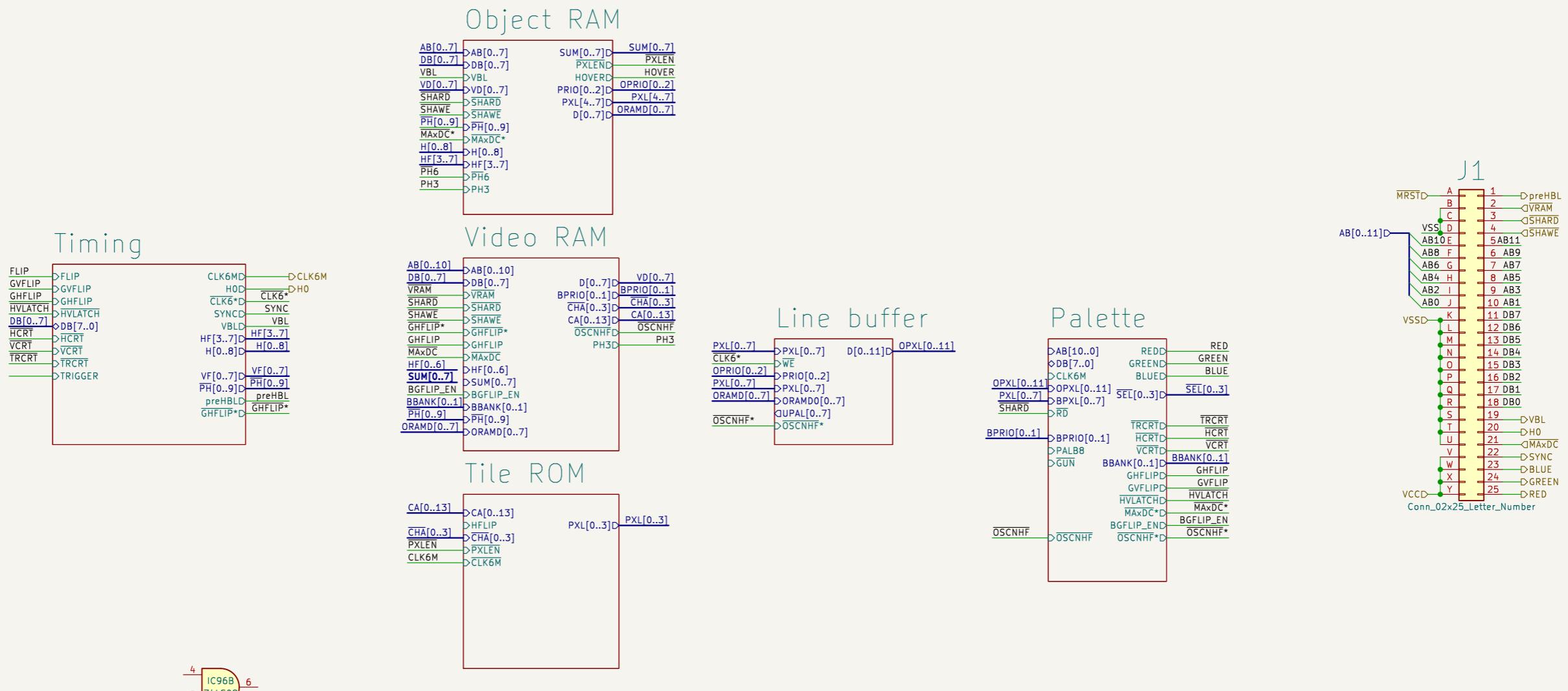
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E

E

F

F



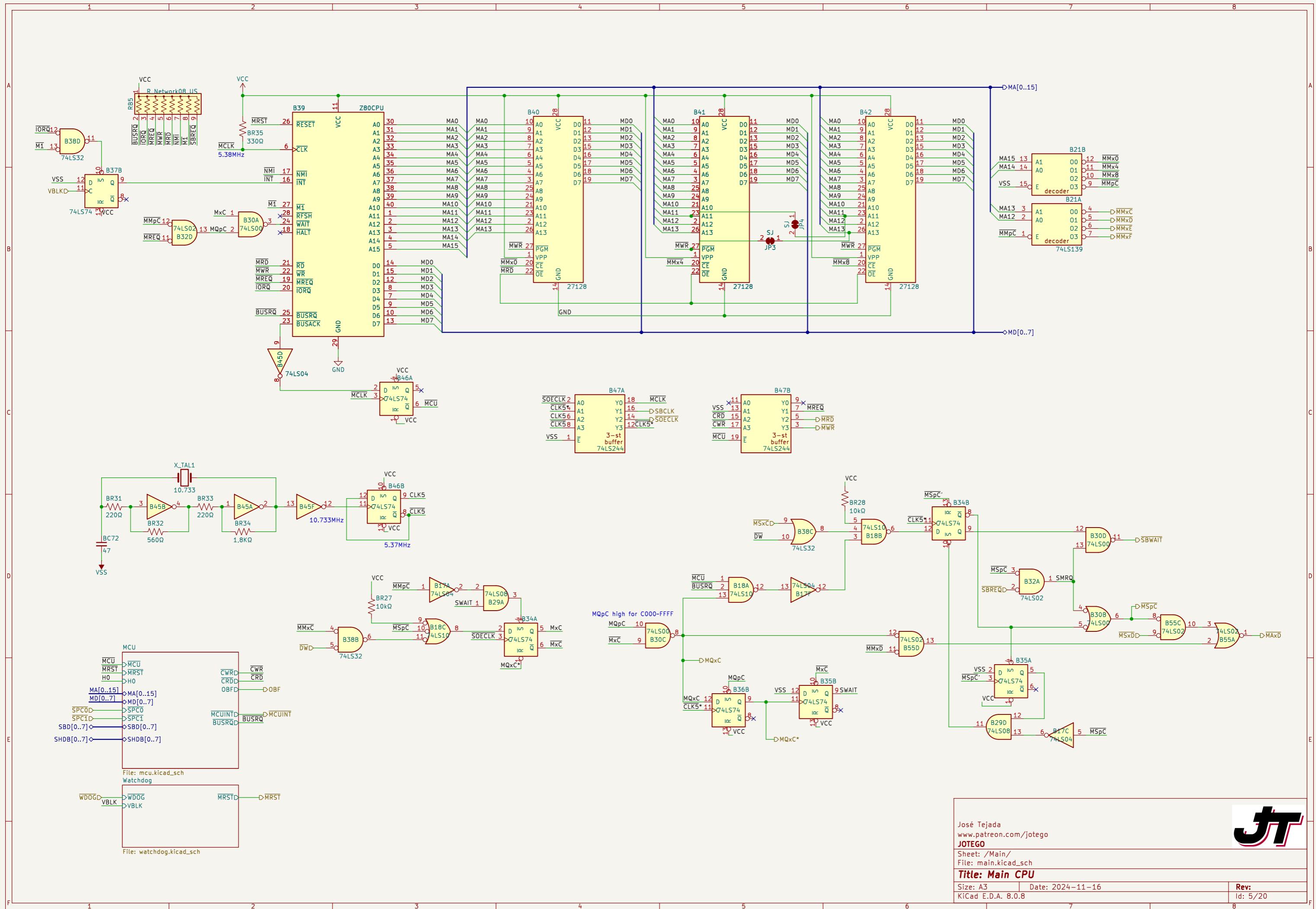
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Title: The Fairyland Story

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.8

Rev: 4/20





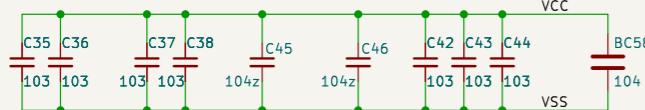
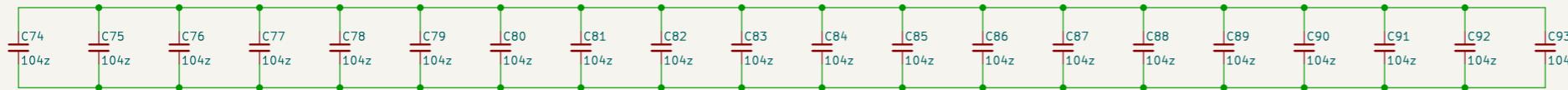
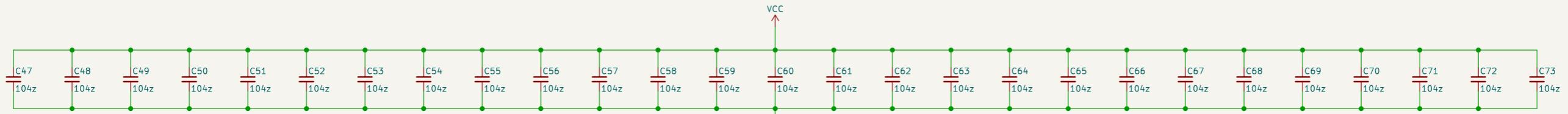
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Sheet: /Sound/
File: sound.kicad_sch

Title: Sound Board

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.8

Rev:
Id: 7/20



NOT POPULATED

~~M24P~~

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File: capacitors_lu.kicad_sch

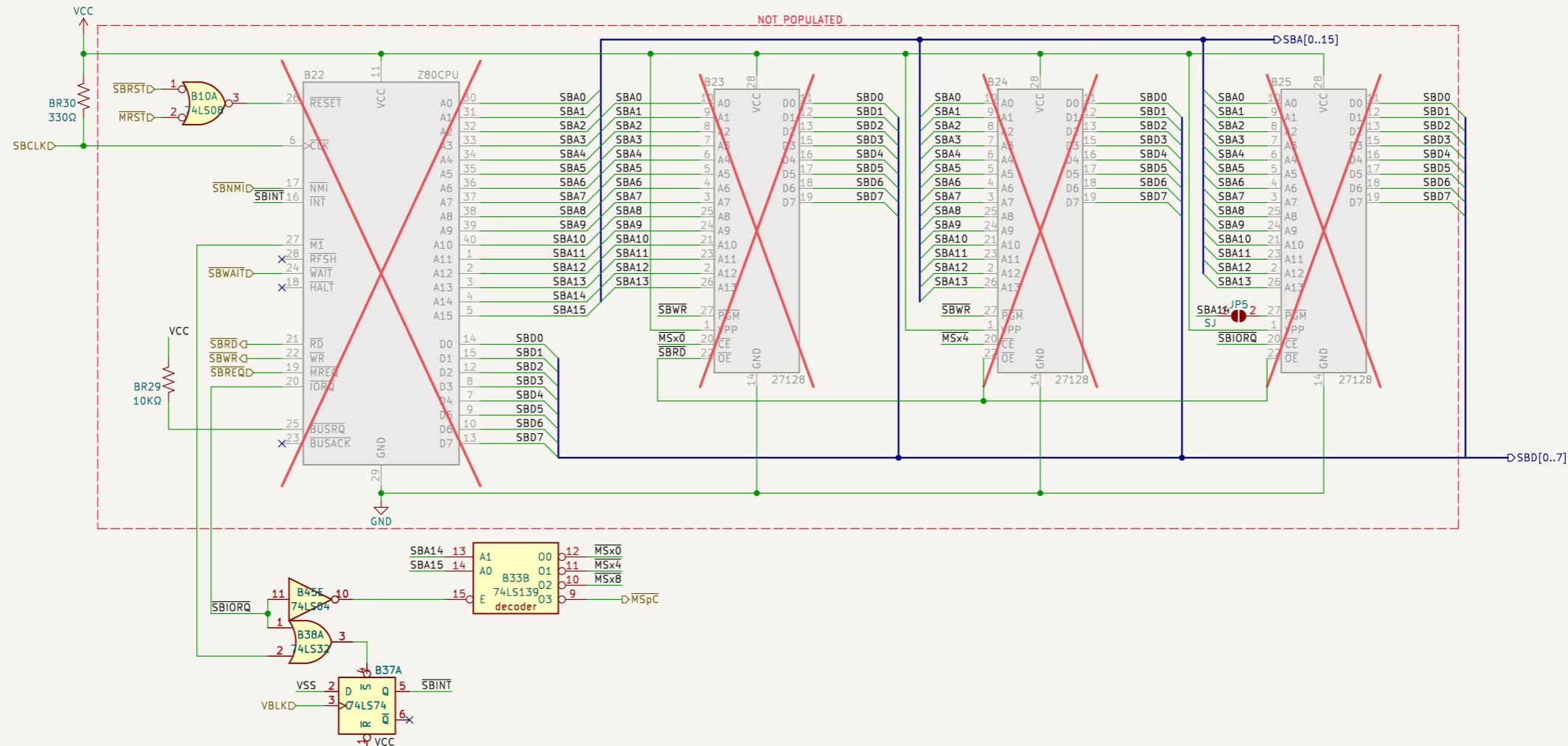
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Size: A3 Date: 2024-11-16
KiCad EDA 8.0.8

KiCad E.D.A. 8.0.0

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at john.smith@researchinstitute.org.

JT

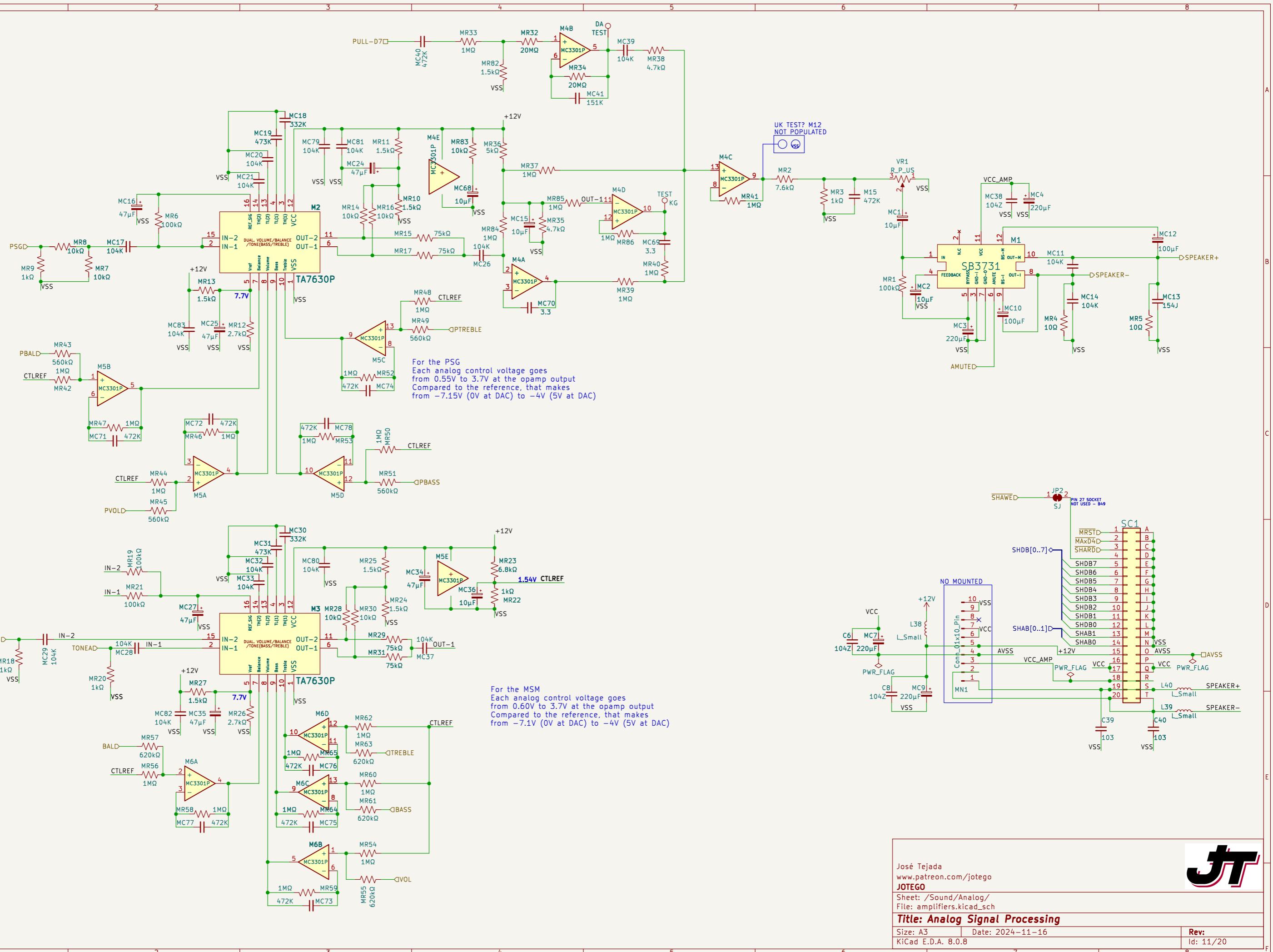


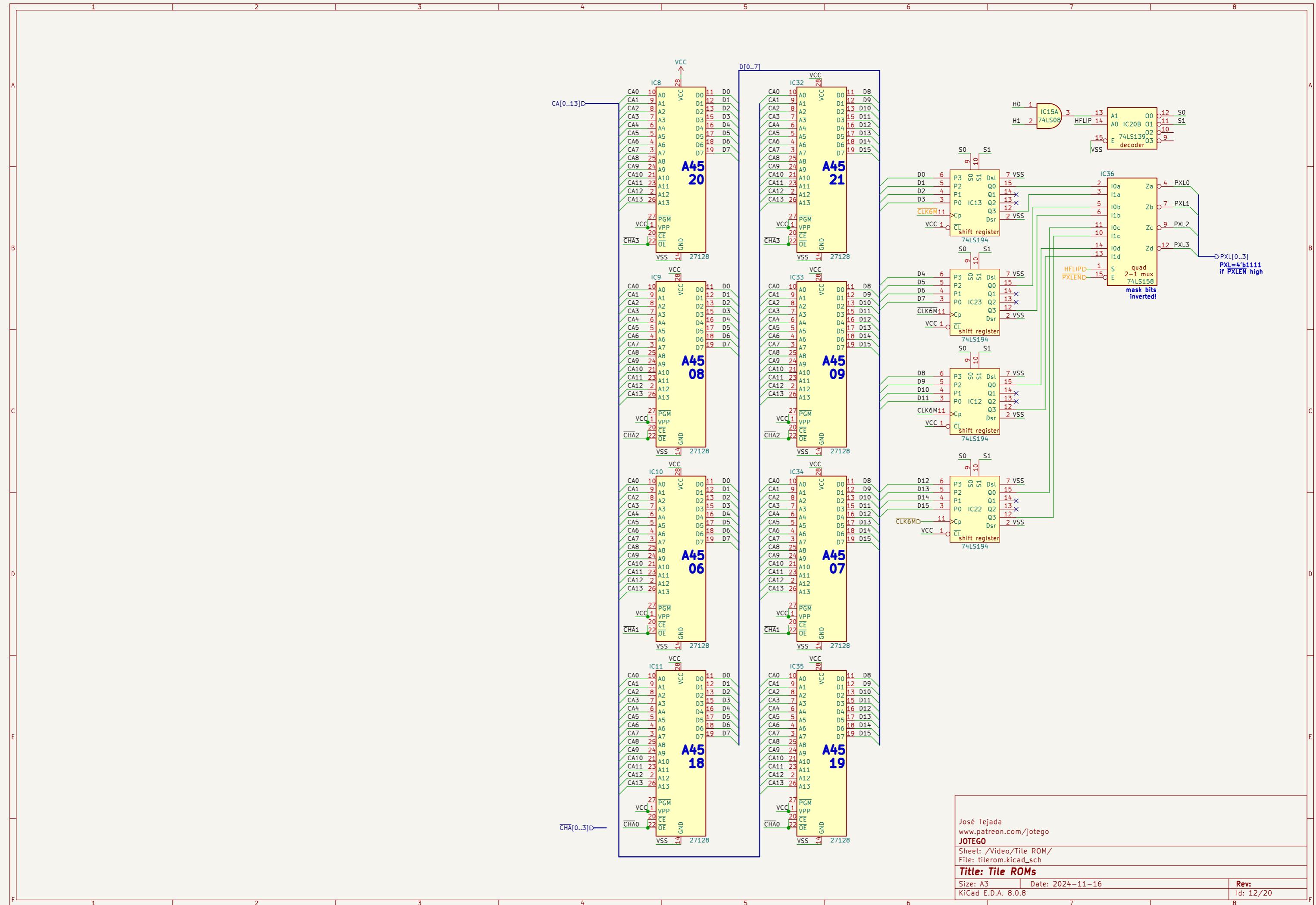
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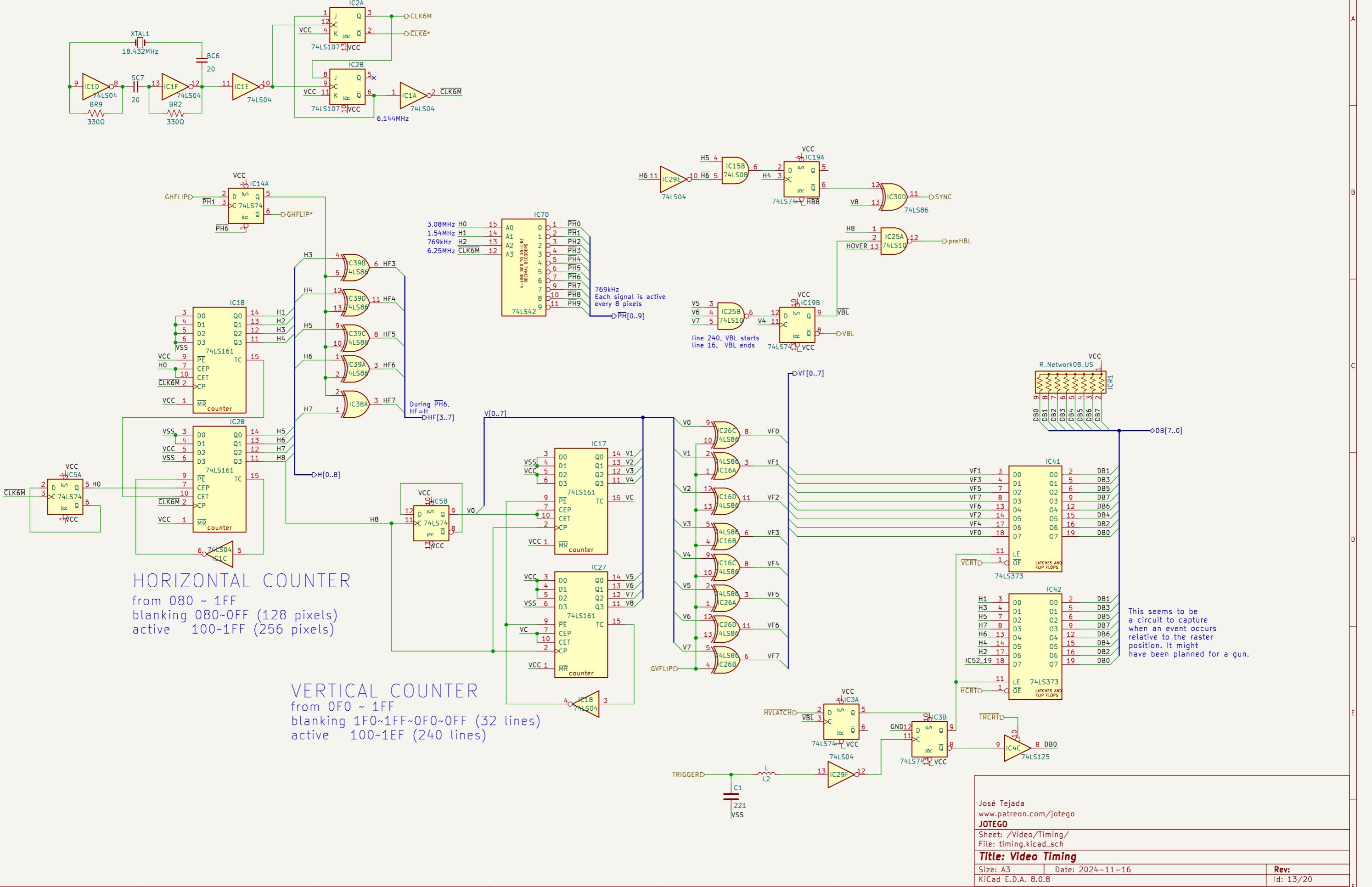
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File: sub_main.kicad_sch
Title: Subsidiary CPU

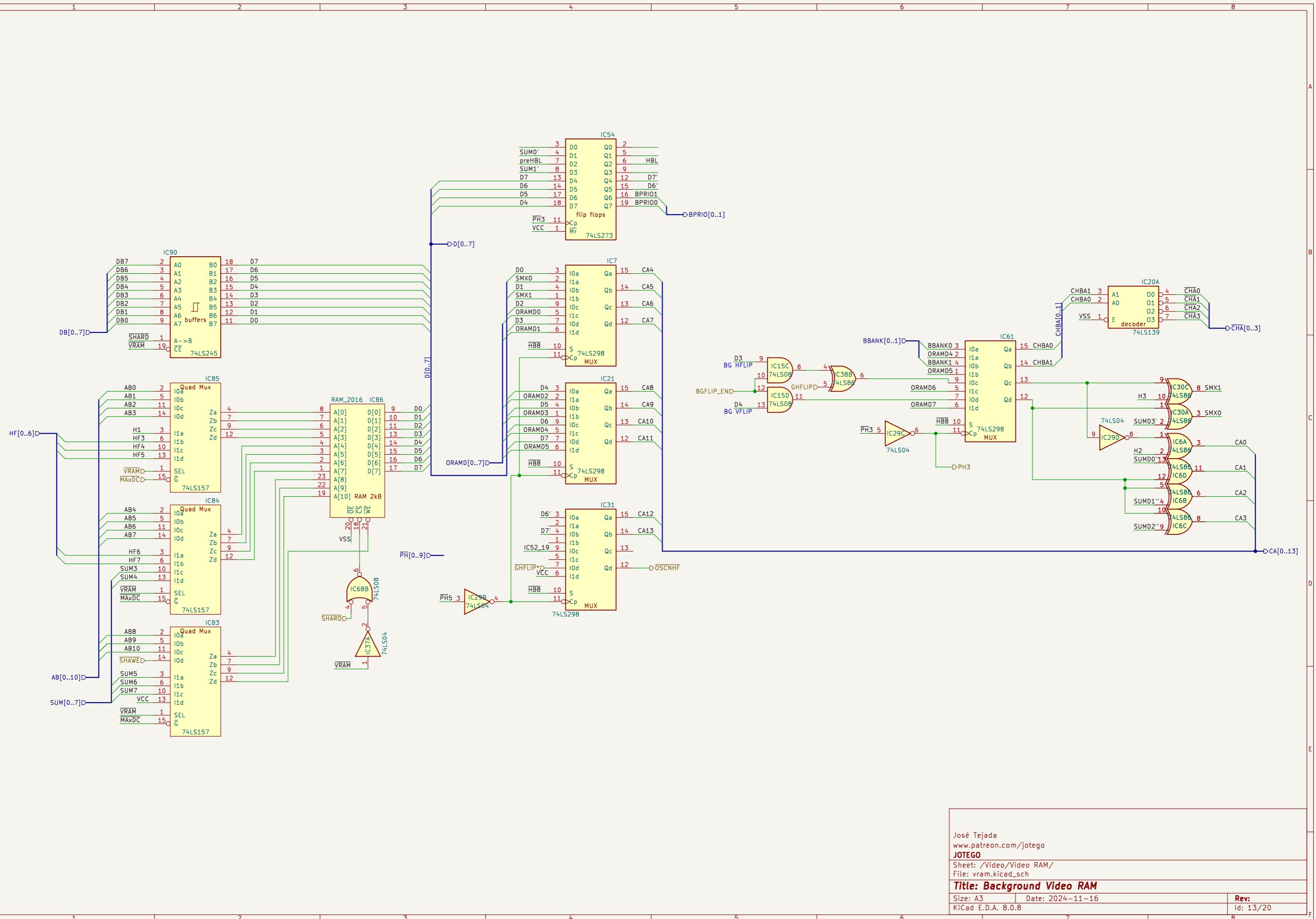
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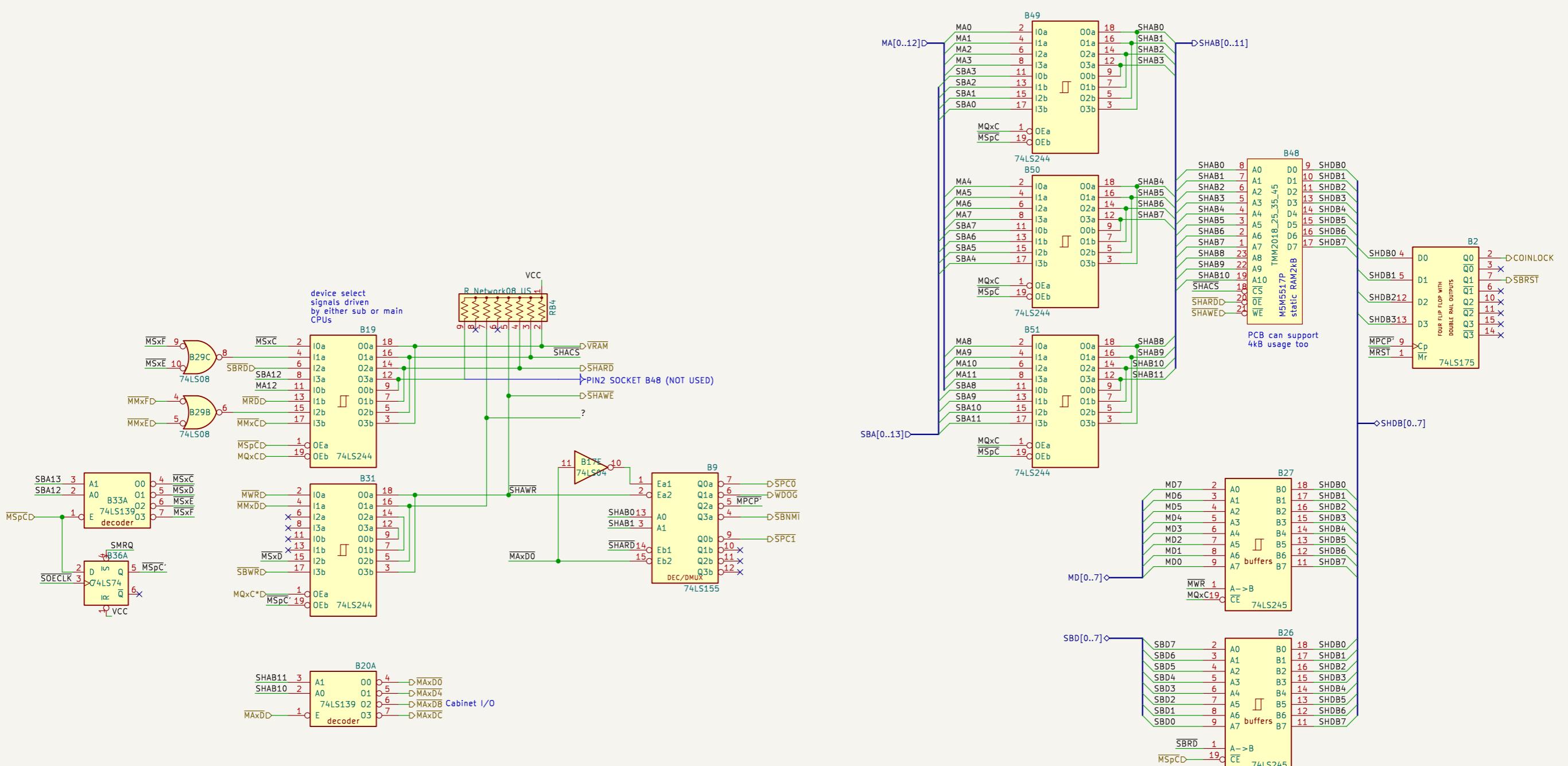
Rev:
Id: 10/20











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Sheet: /Shared/
 File: shared.kicad_sch

Title: Shared bus and RAM

Size: A3 | Date: 2024-11-16
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Rev:
 Id: 13/20



The MCU can take control of the share bus by requesting the main CPU bus

The MCU can communicate with both CPUs via latches B52 and B53

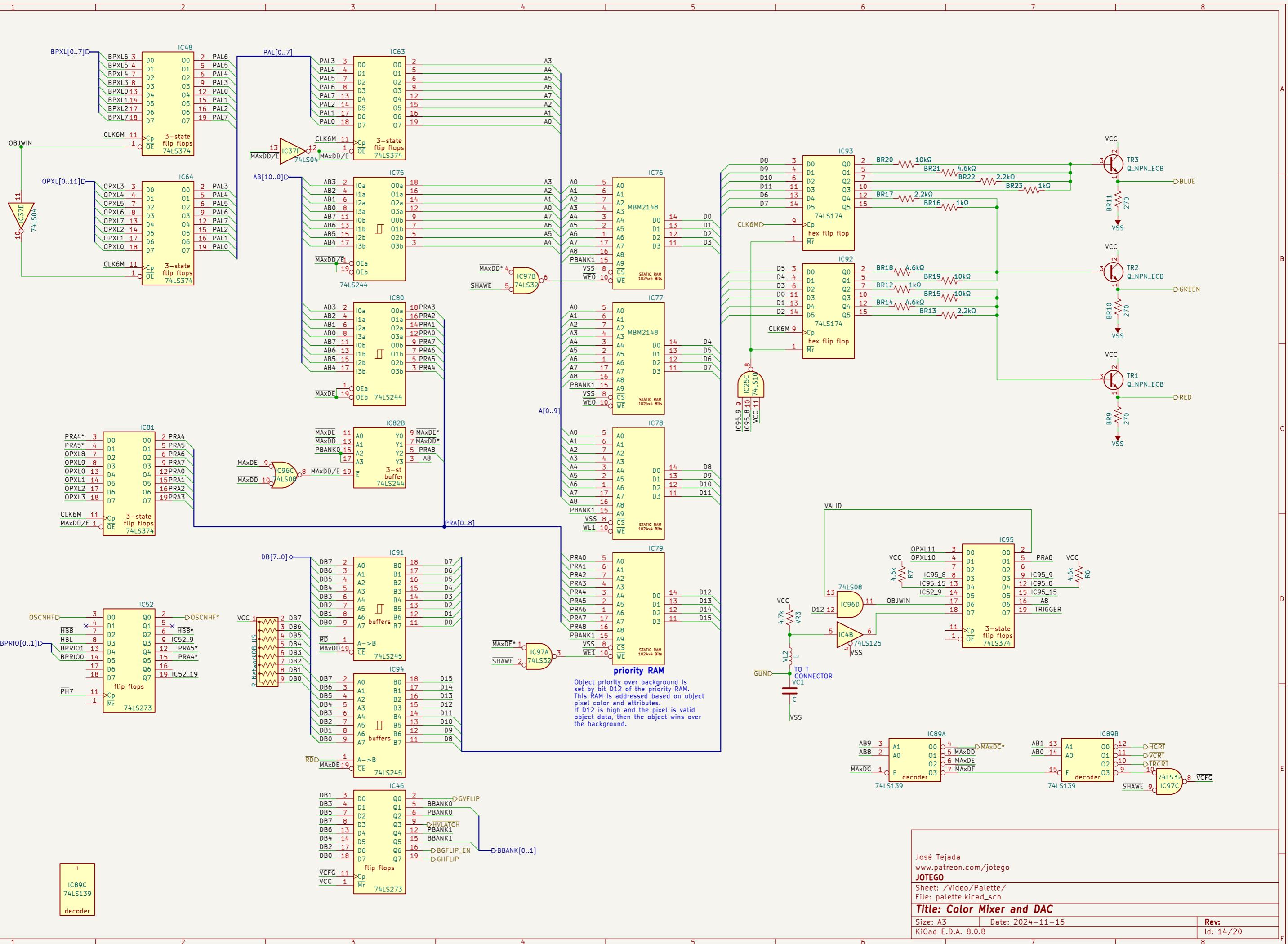
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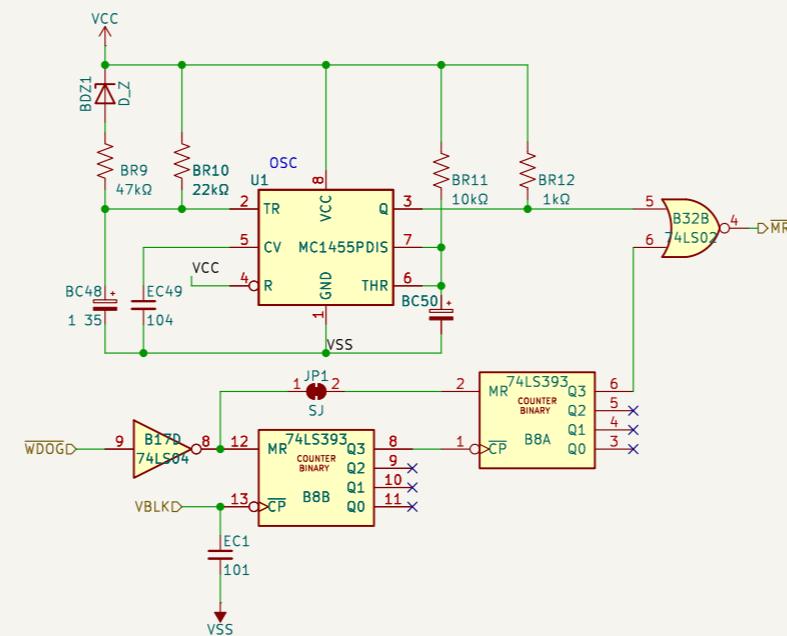
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File: mcu.kicad_sch

Title: MCU

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.8

Rev: Id: 14/20





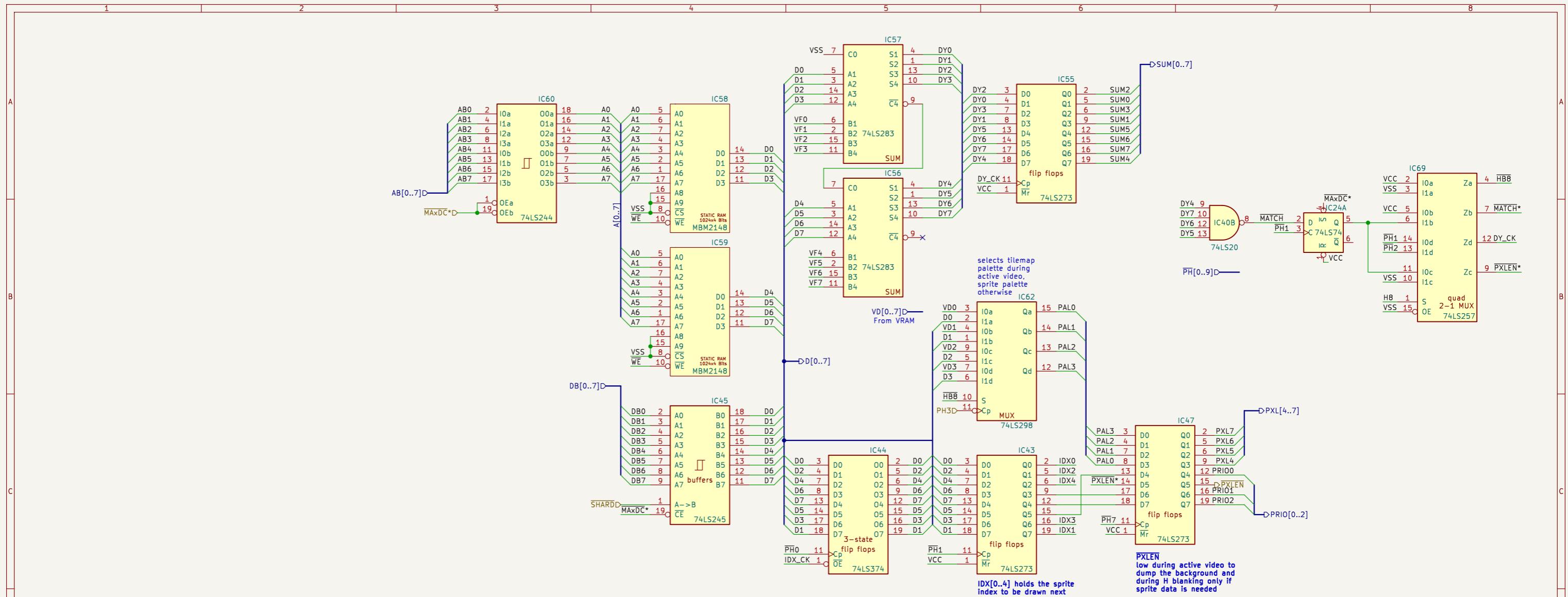
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Sheet: /Main/Watchdog/
File: watchdog.kicad_sch

Title:

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.8

Rev:
Id: 15/20



Complex multiplexer driving
the 256-byte memory because it holds
three kinds of information
00-7F: 4-byte sprite data (32 sprites)
80-9F: sprite drawing order (bits 4:0) and sprite priority (bit 7)
A0-BF: column scroll
D0-DF: matched sprites for next line

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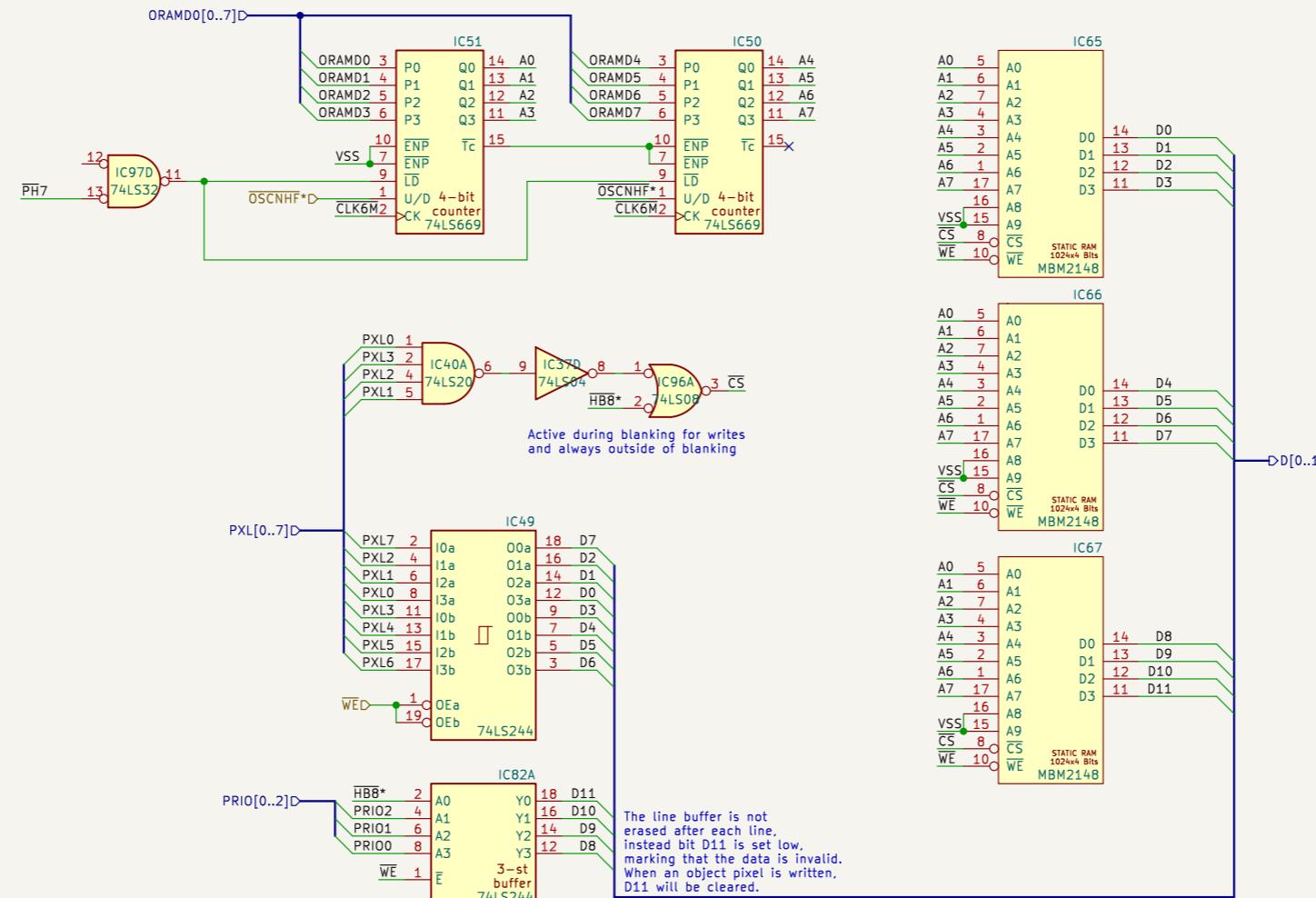
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Title: Object Information

Size: A3 Date: 2024-11-16

KiCad E.D.A. 8.0.8

1 / 1

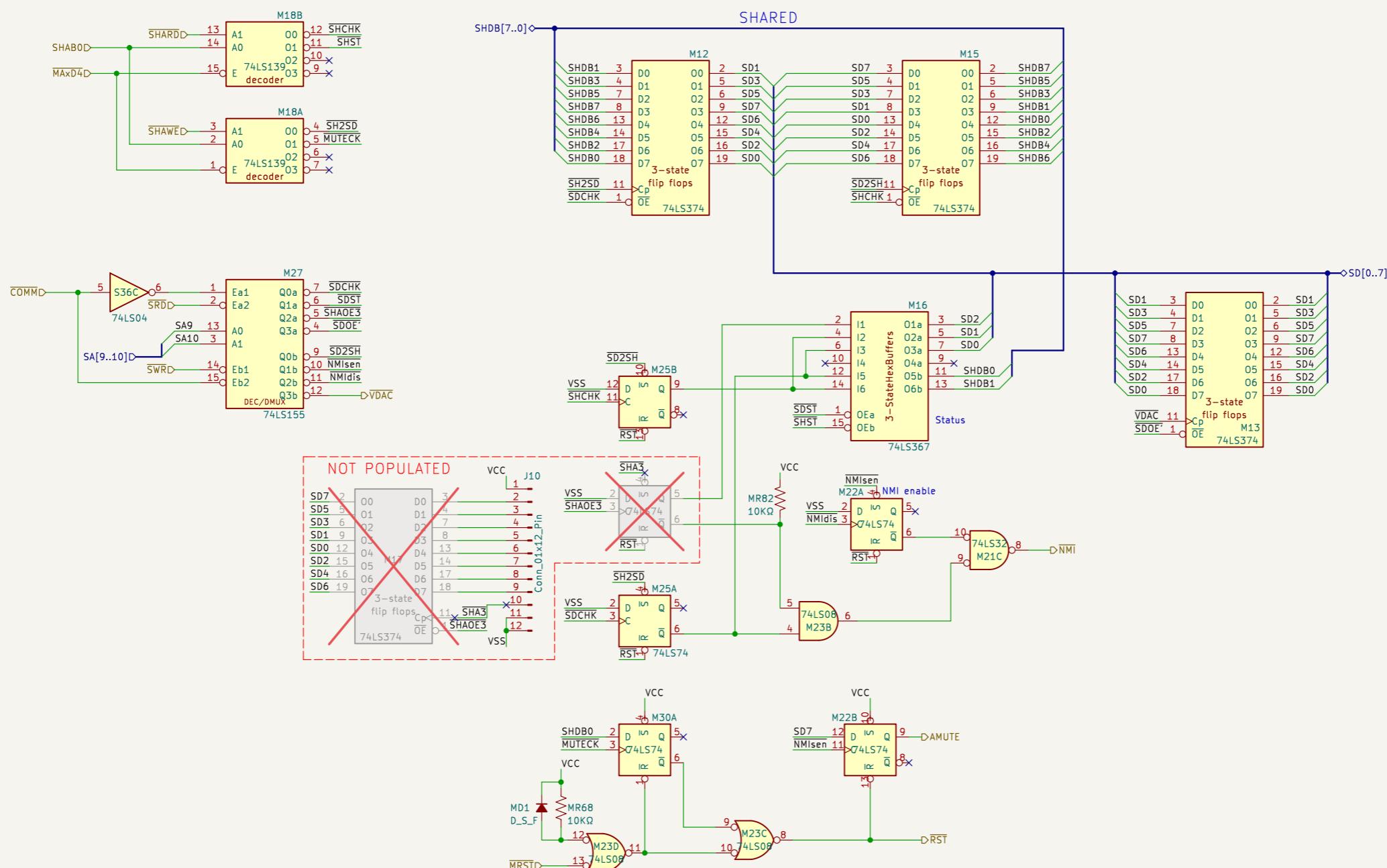


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Sheet: /Video/Line buffer/
File: linebuf.kicad_sch

Title: Single Line Video Buffer

| | |
|--------------------|------------------|
| Size: A3 | Date: 2024-11-16 |
| KiCad E.D.A. 8.0.8 | Rev: 17/20 |



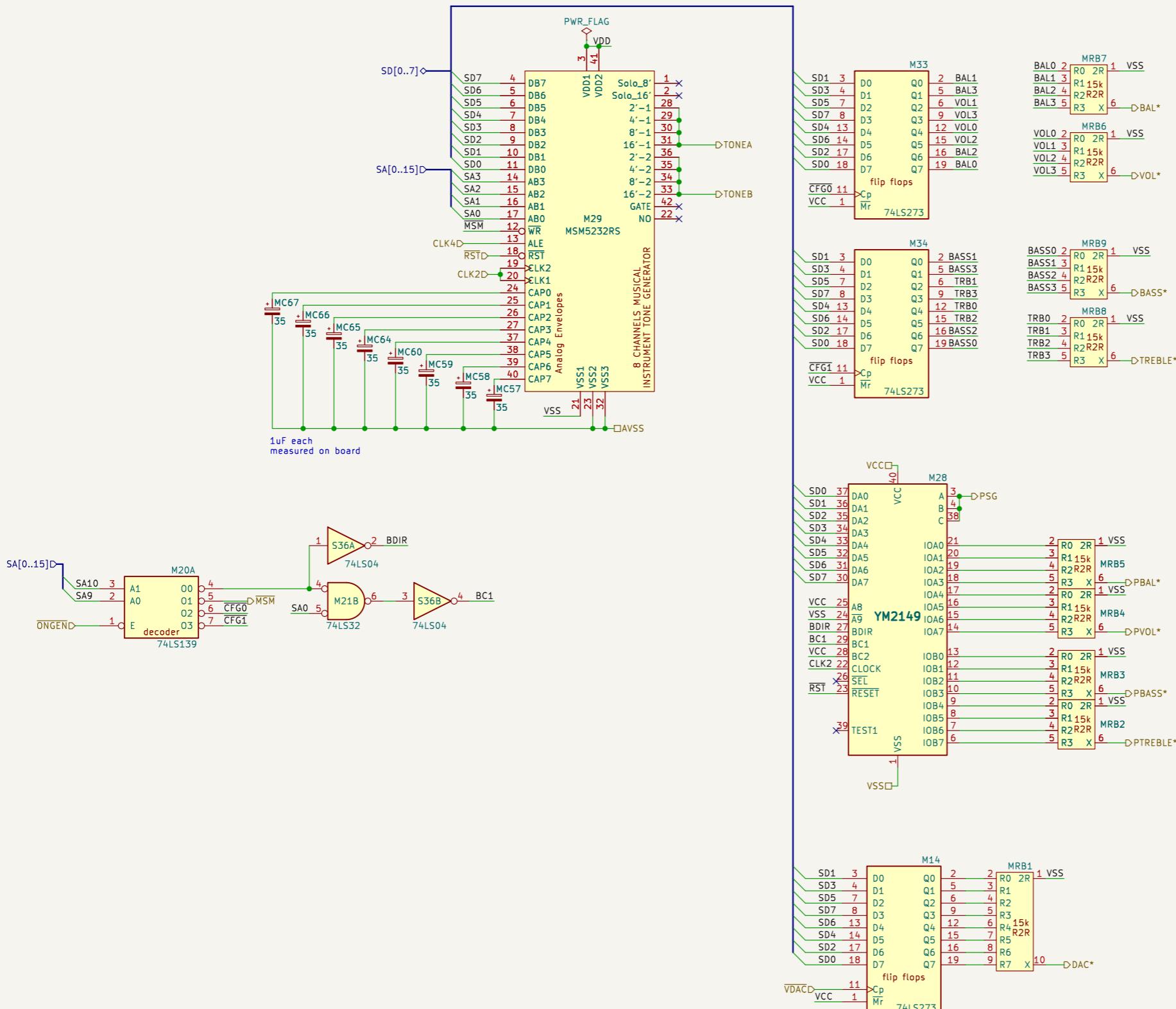
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Sheet: /Sound/Latches/
File: latches.kicad_sch

Title: Communication Latches

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.8

7



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JOTEGO
Sheet: /Sound/Sound Generators/
File: ongen.kicad_sch

Title: Sound Generators

Size: A3 Date: 2024-11

KiCad E.D.A. 8.0.8

100% of the time

Id:

8

