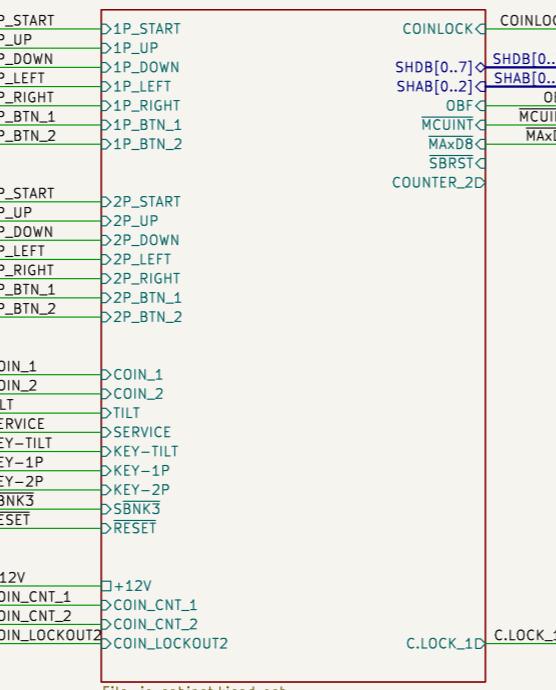
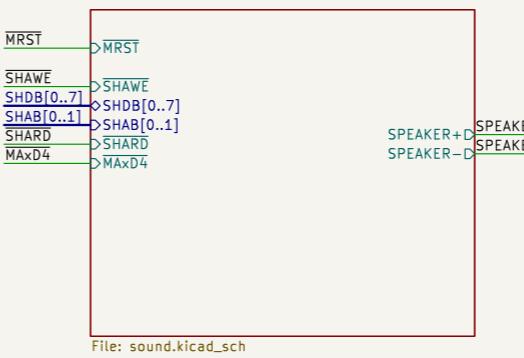


## Cabinet



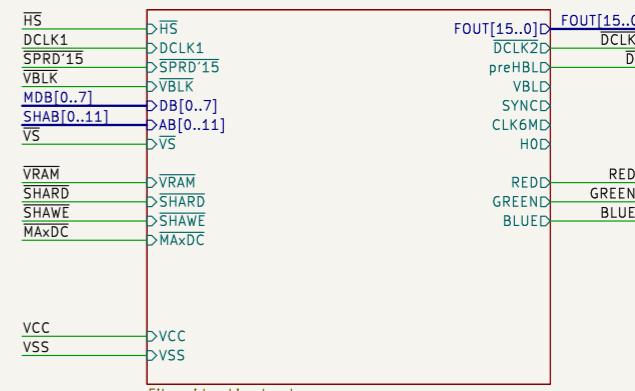
File: io\_cabinet.kicad\_sch

## Sound



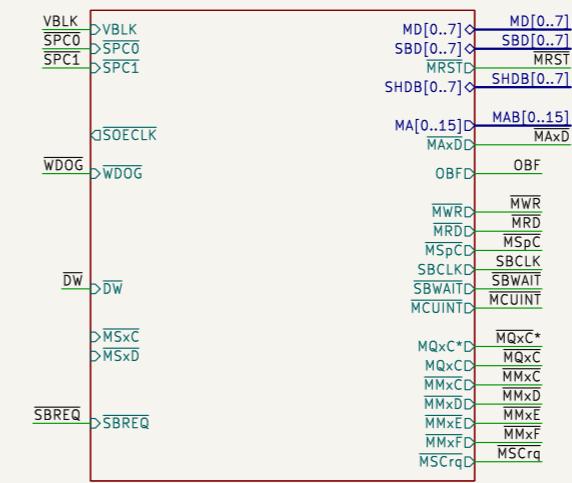
File: sound.kicad\_sch

## Video



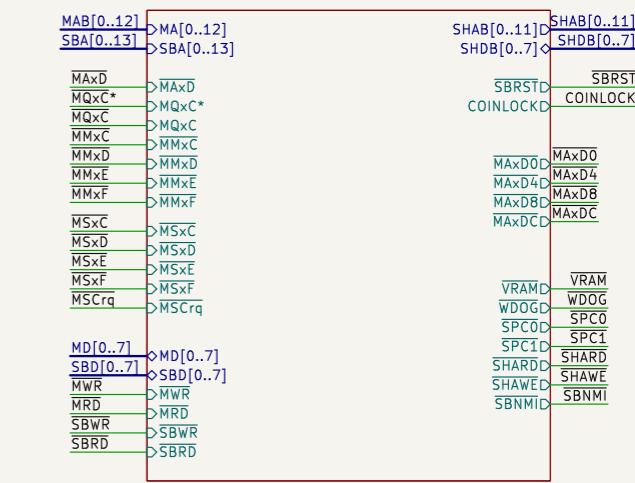
File: video.kicad\_sch

## Main



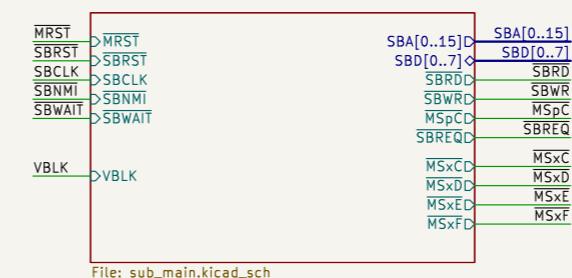
File: main.kicad\_sch

## Shared

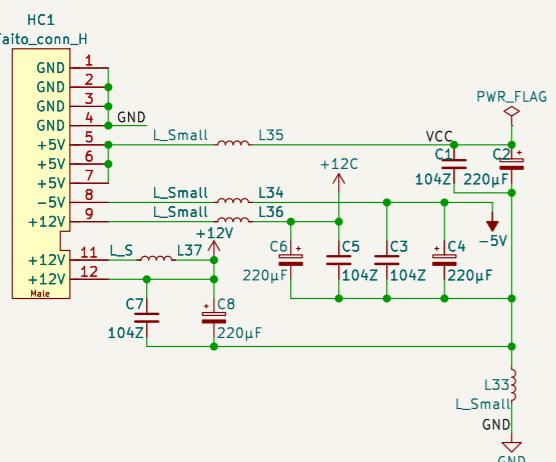


File: shared.kicad\_sch

## Sub



File: sub\_main.kicad\_sch



File: capacitors\_lu.kicad\_sch

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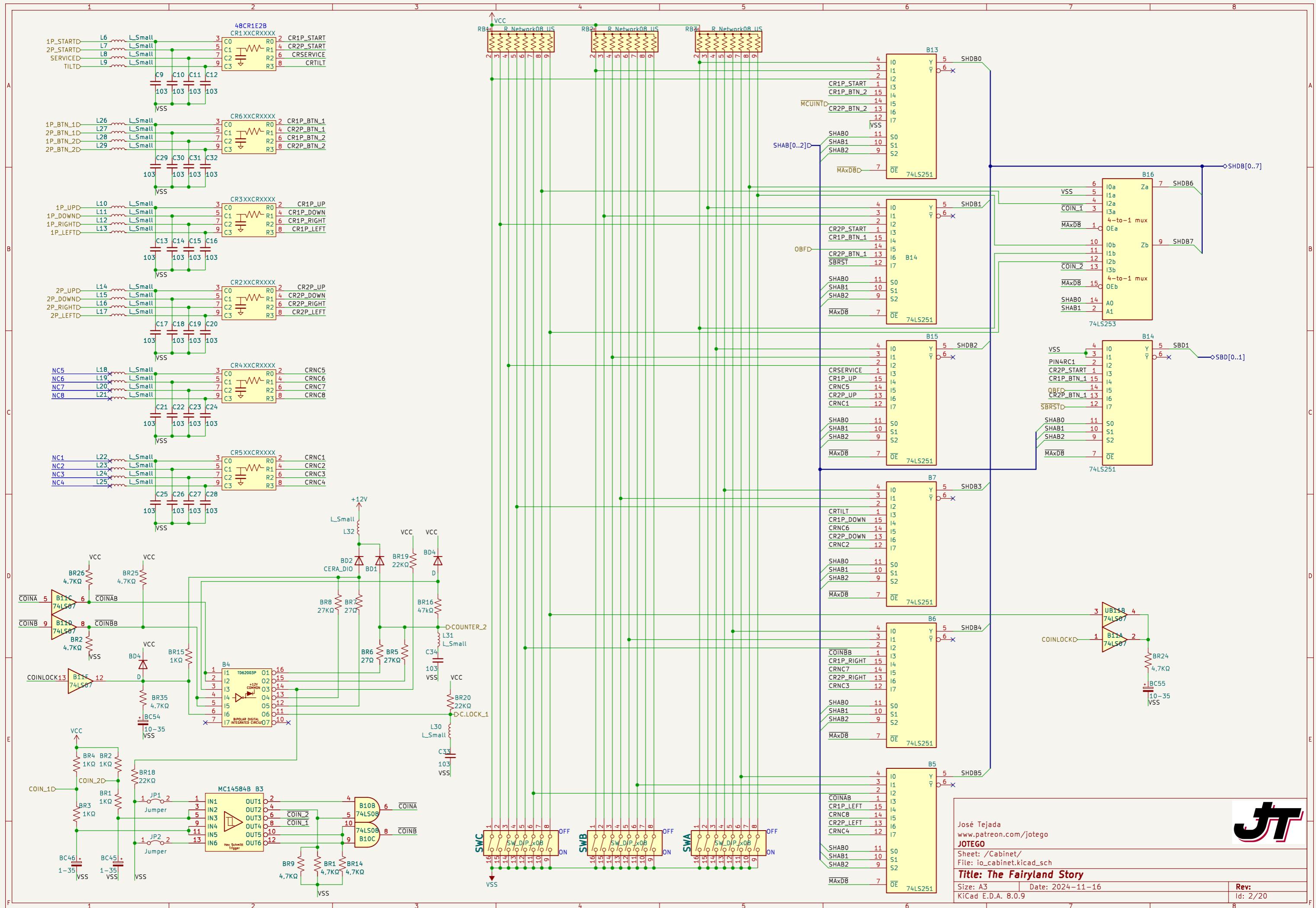
Sheet: /  
File: fairyland.kicad\_sch

Title: The Fairyland Story

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9



Rev:  
Id: 1/20



A

A

B

B

C

C

D

D

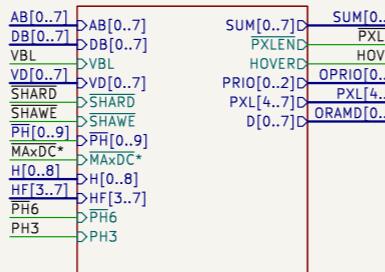
E

E

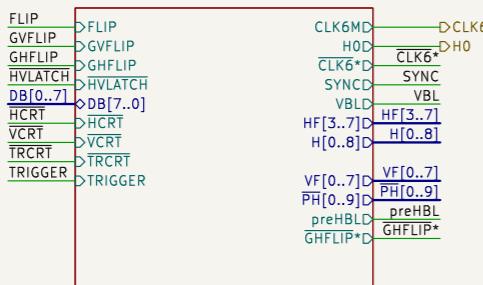
F

F

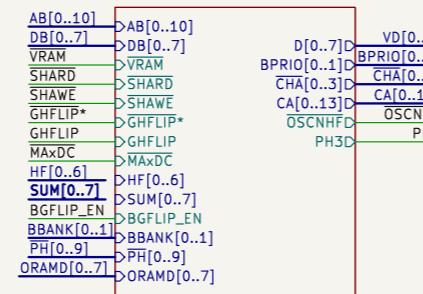
### Object RAM



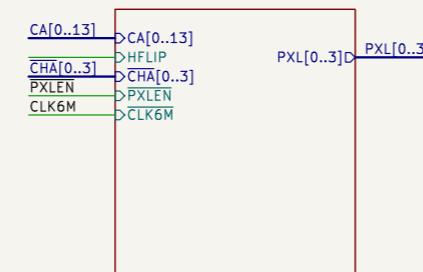
### Timing



### Video RAM

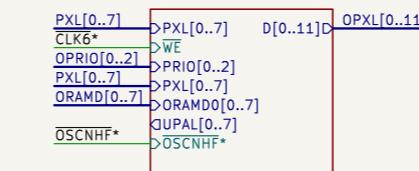


### Tile ROM

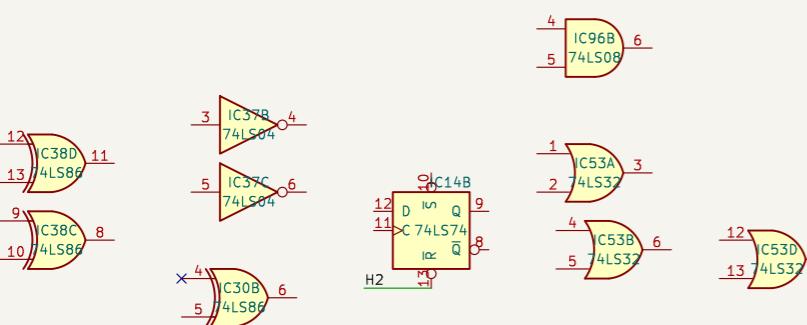
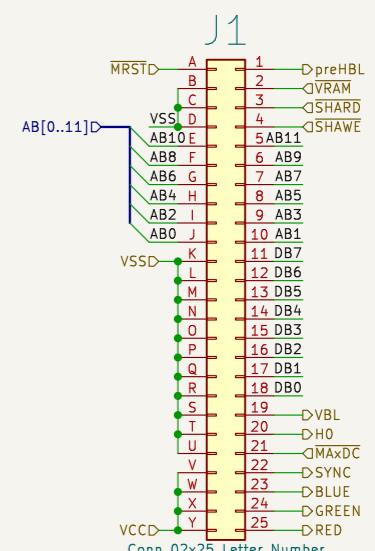
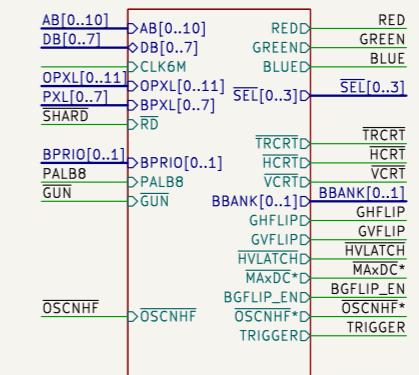


1 2 3 4 5 6 7 8

### Line buffer



### Palette



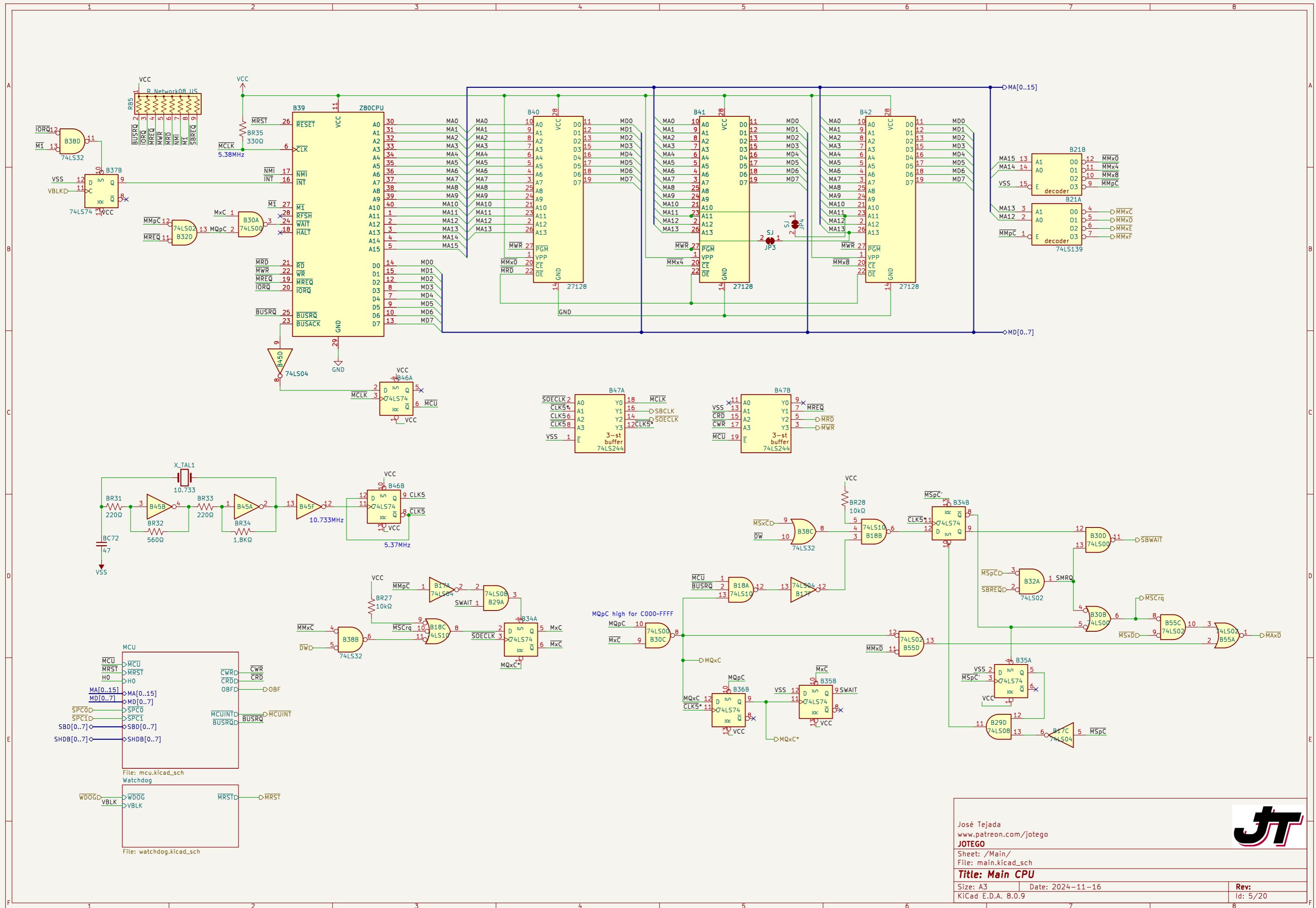
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Sheet: /Video/  
File: video.kicad\_sch

**Title: The Fairyland Story**

Size: A3 Date: 2024-11-16  
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Sheet: /Main/  
File: main.kicad\_sch

**Title: Main CPU**

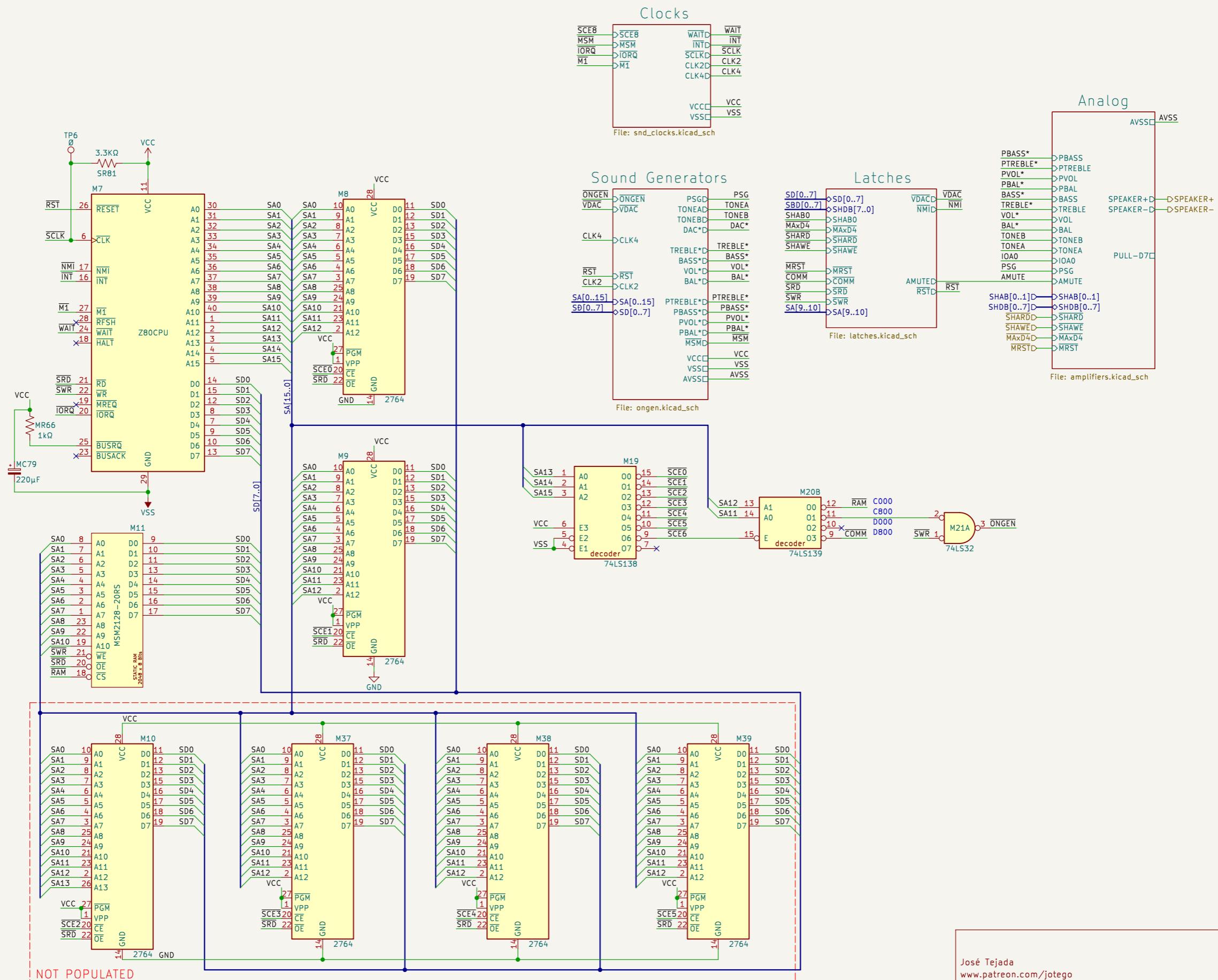
Size: A3 | Date: 2024-11-16

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Id: 5/20



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Sheet: /Sound/

File: sound.kicad\_sch

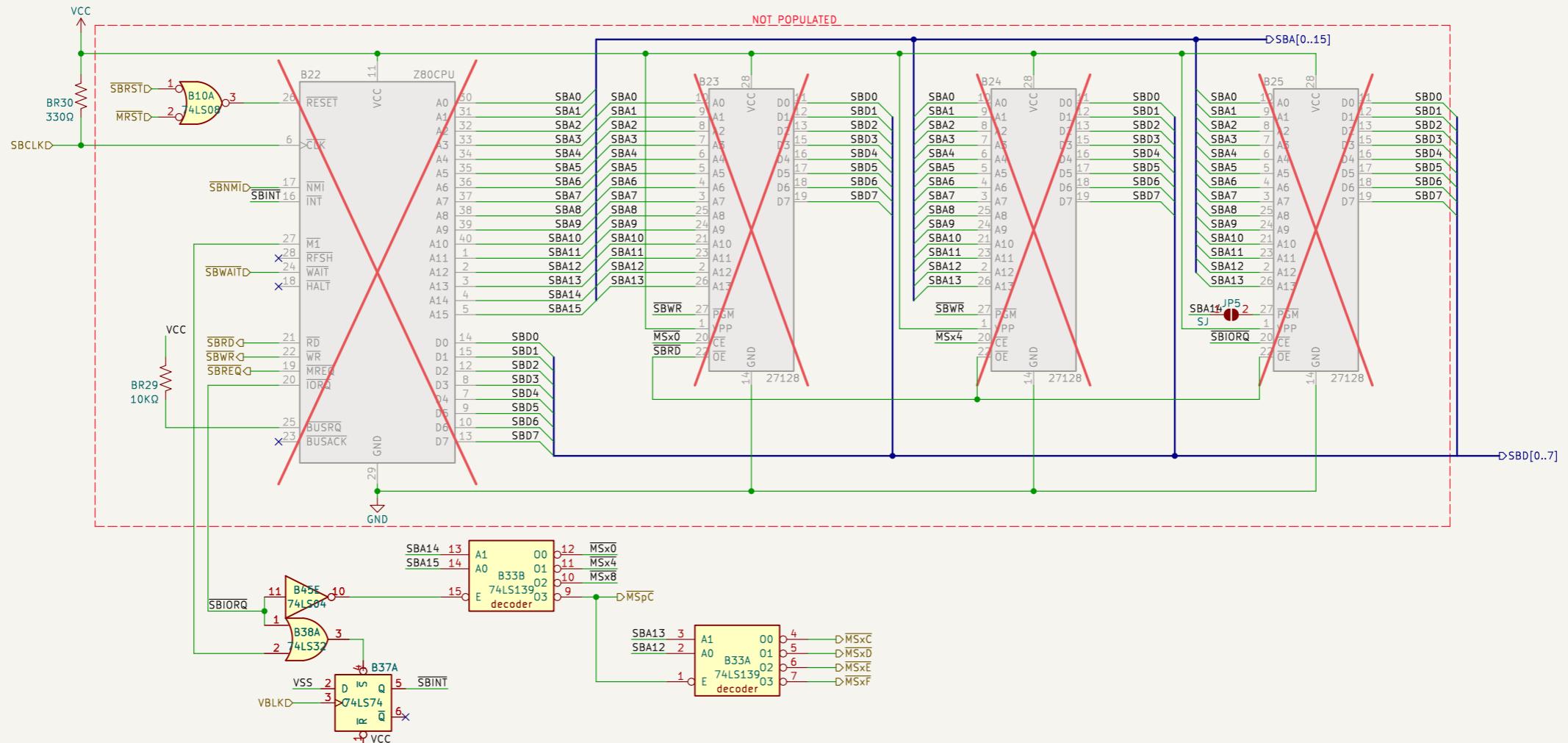
## Title: Sound Board

Size: A3 Date: 2024-11-16  
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3





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Sheet: /Sub/

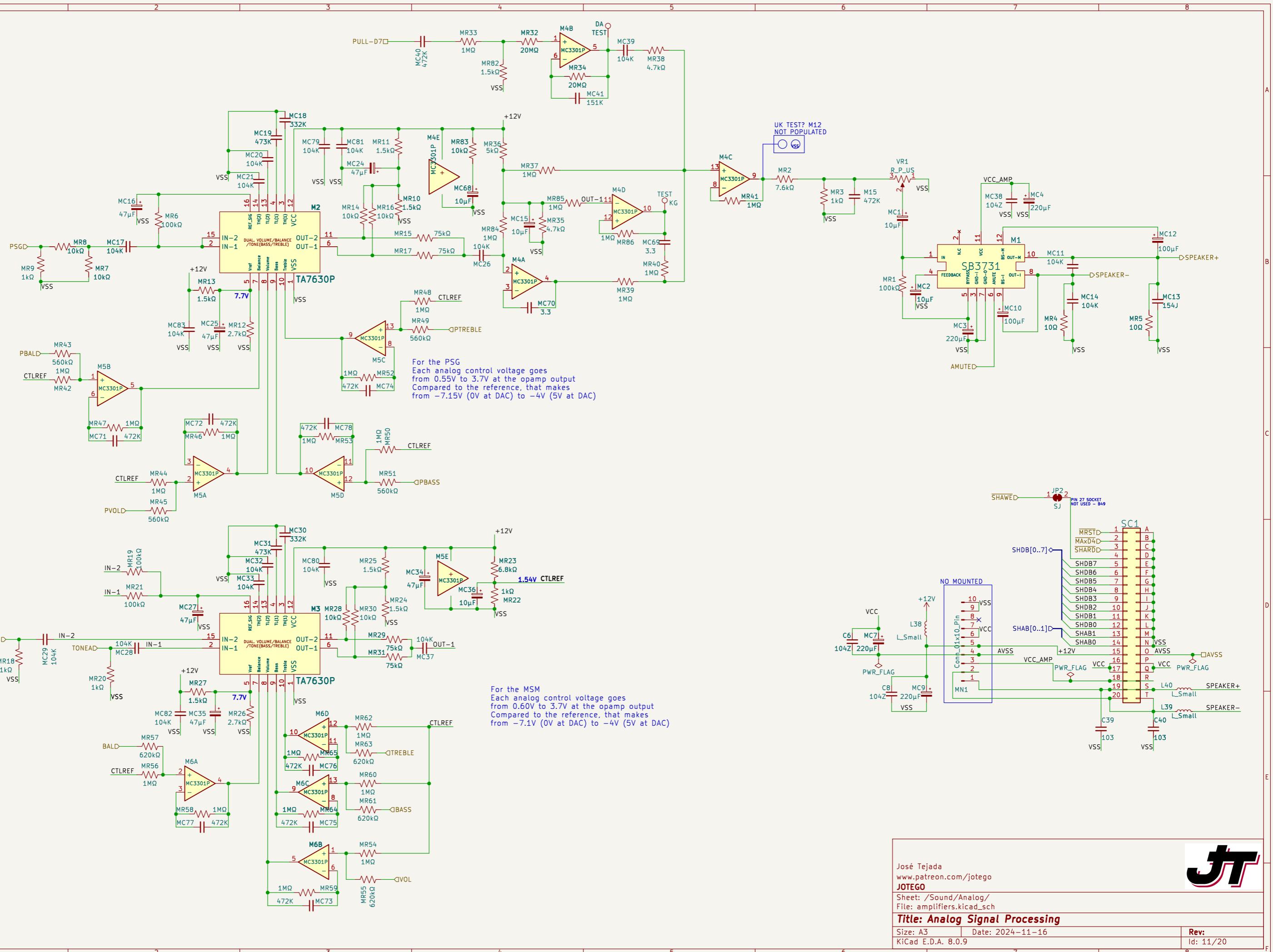
File: sub\_main.kicad\_sch

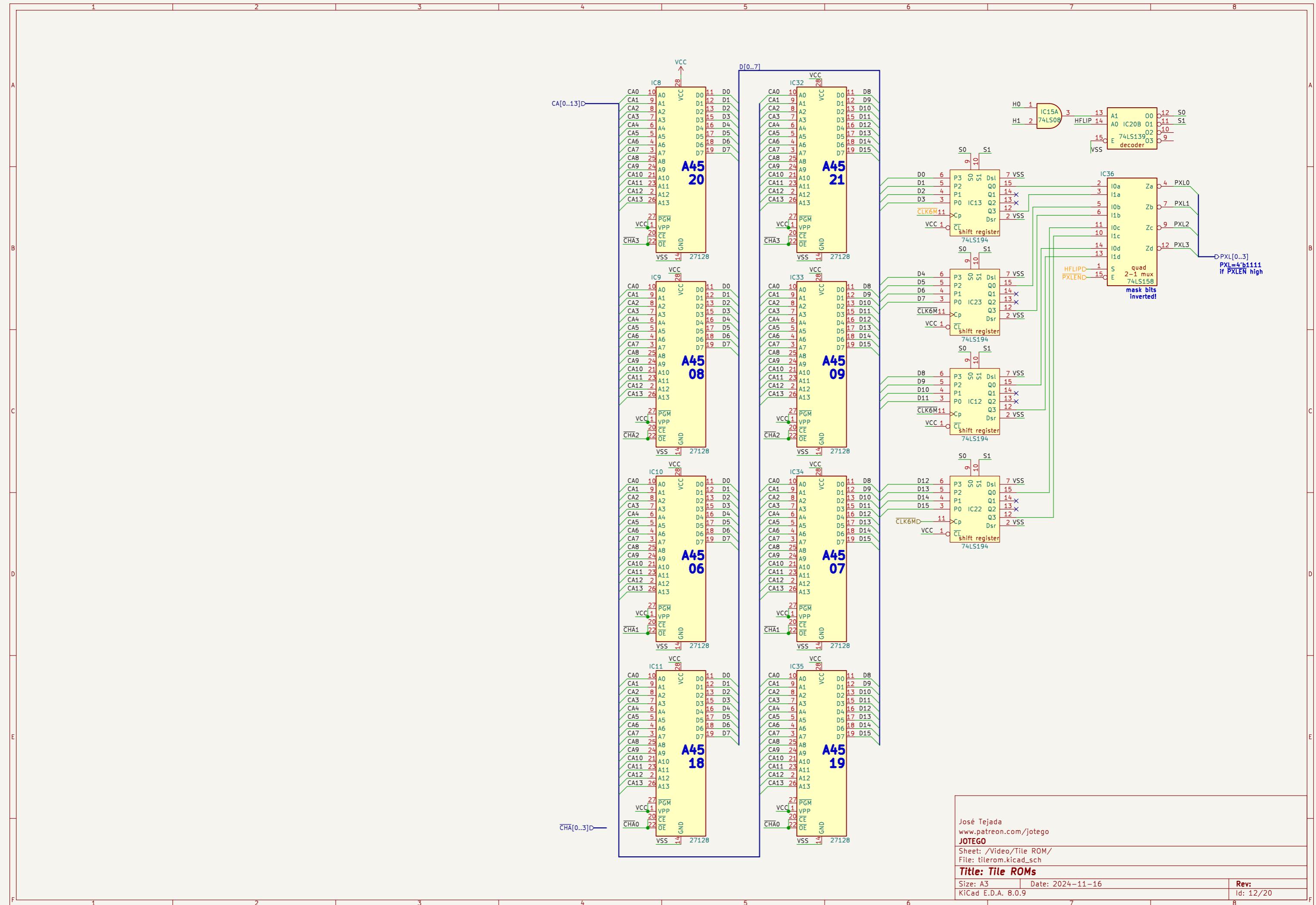
### Title: Subsidiary CPU

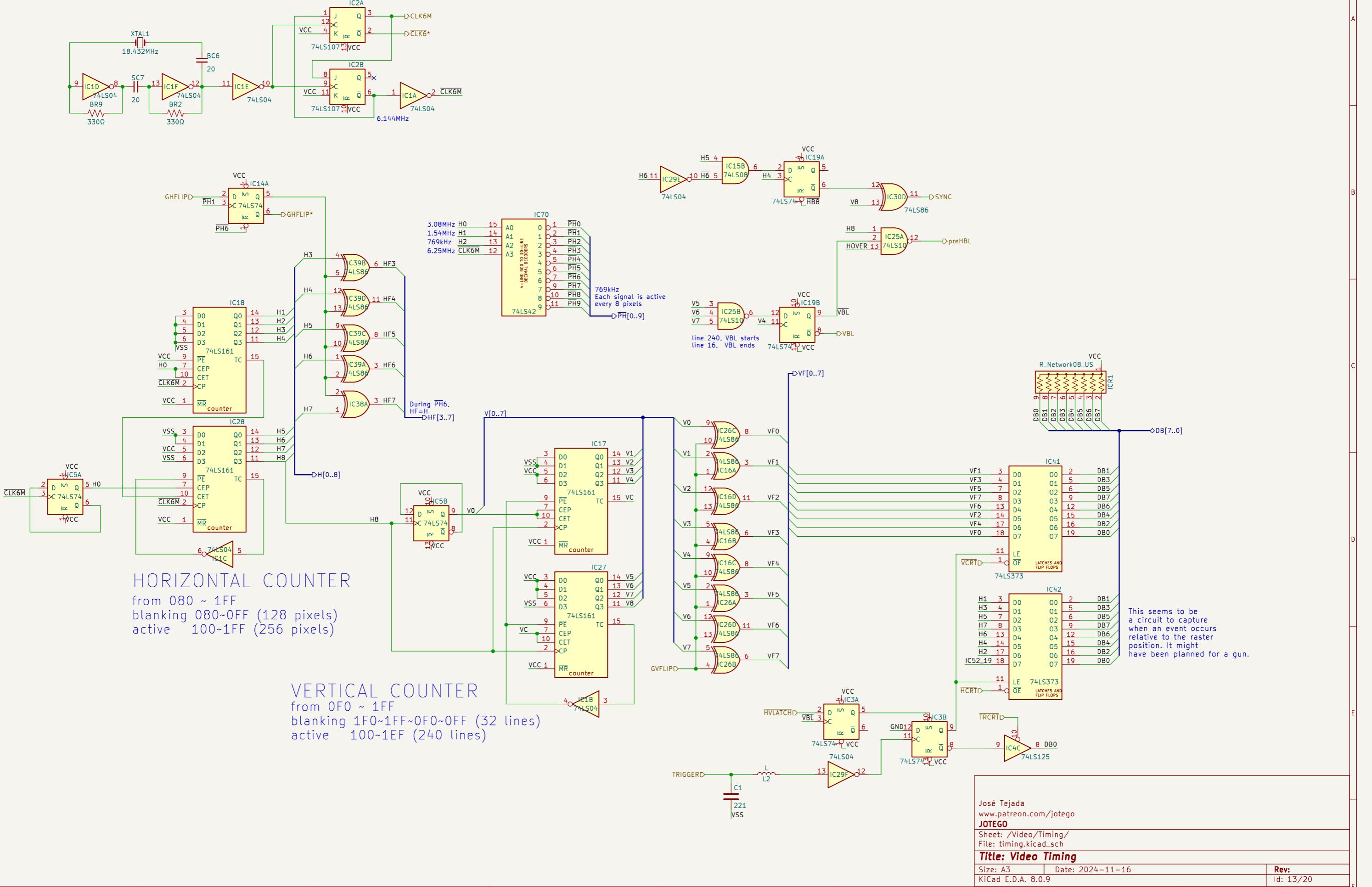
Size: A3 Date: 2024-11-16  
KiCad EDA 8.0.8

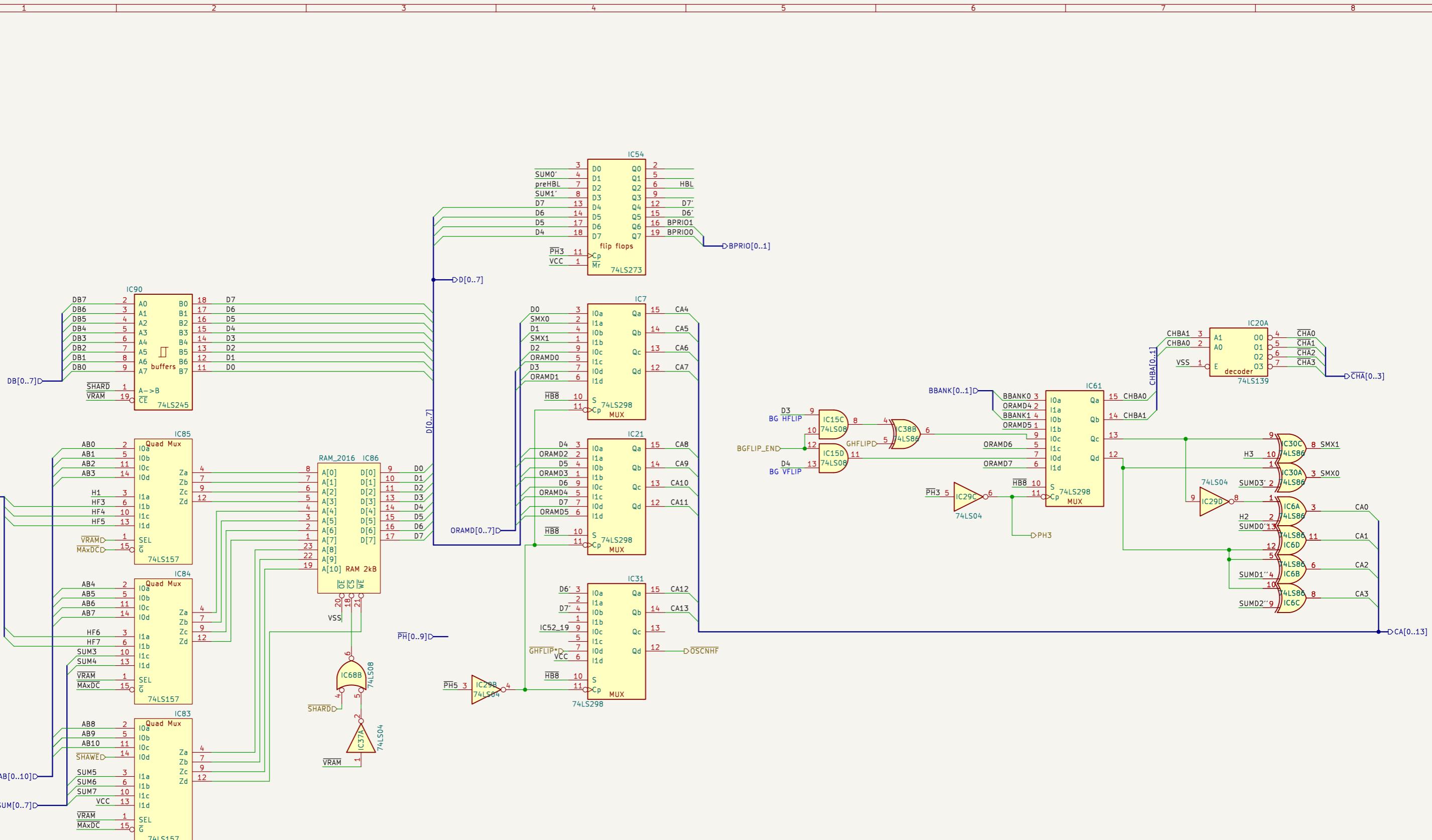
KiCad EDA 8.0.9

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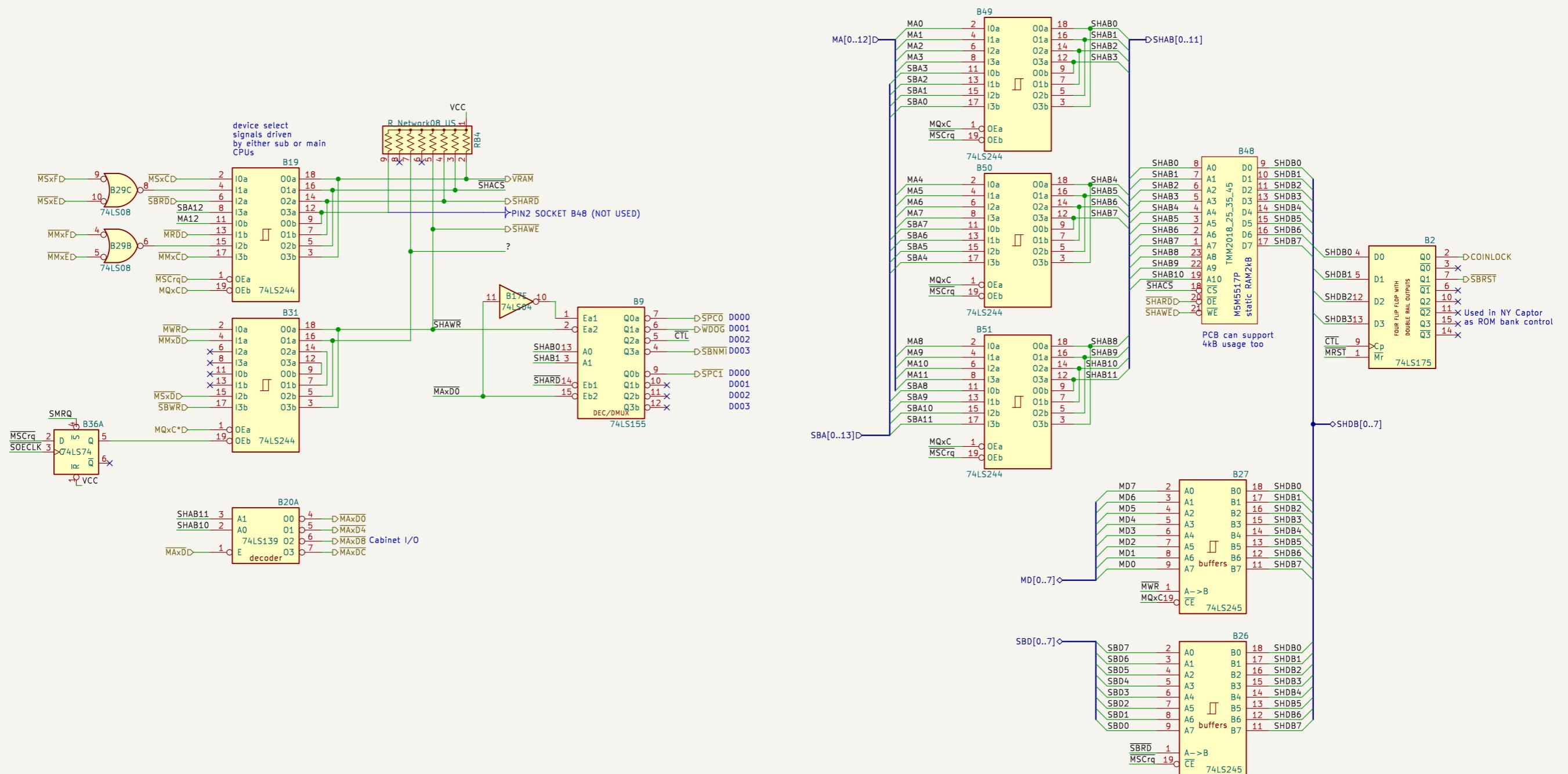
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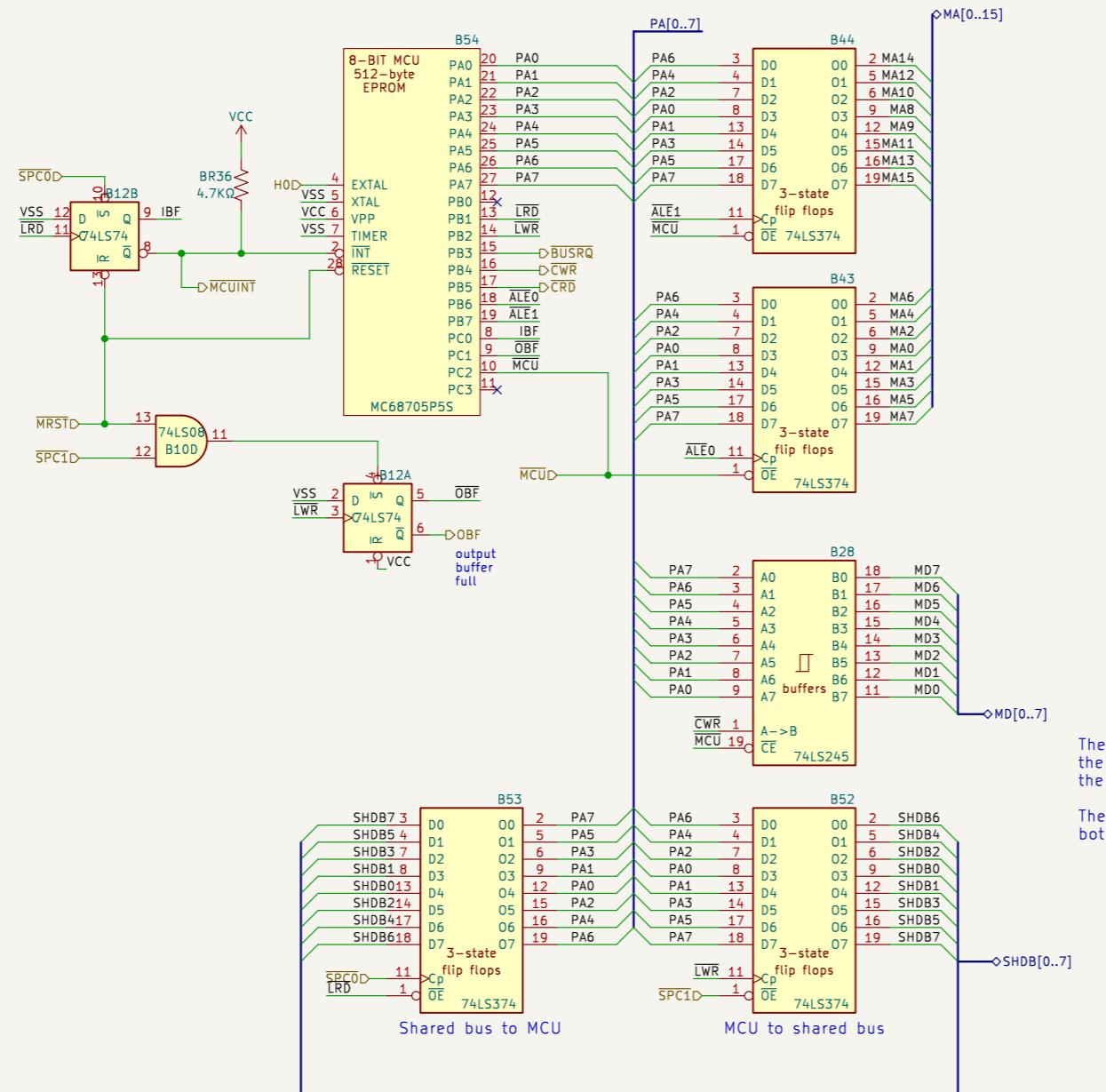
Sheet: /Video/Video RAM/  
File: vram.kicad\_sch

**Title: Background Video RAM**

Size: A3 | Date: 2024-11-16  
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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

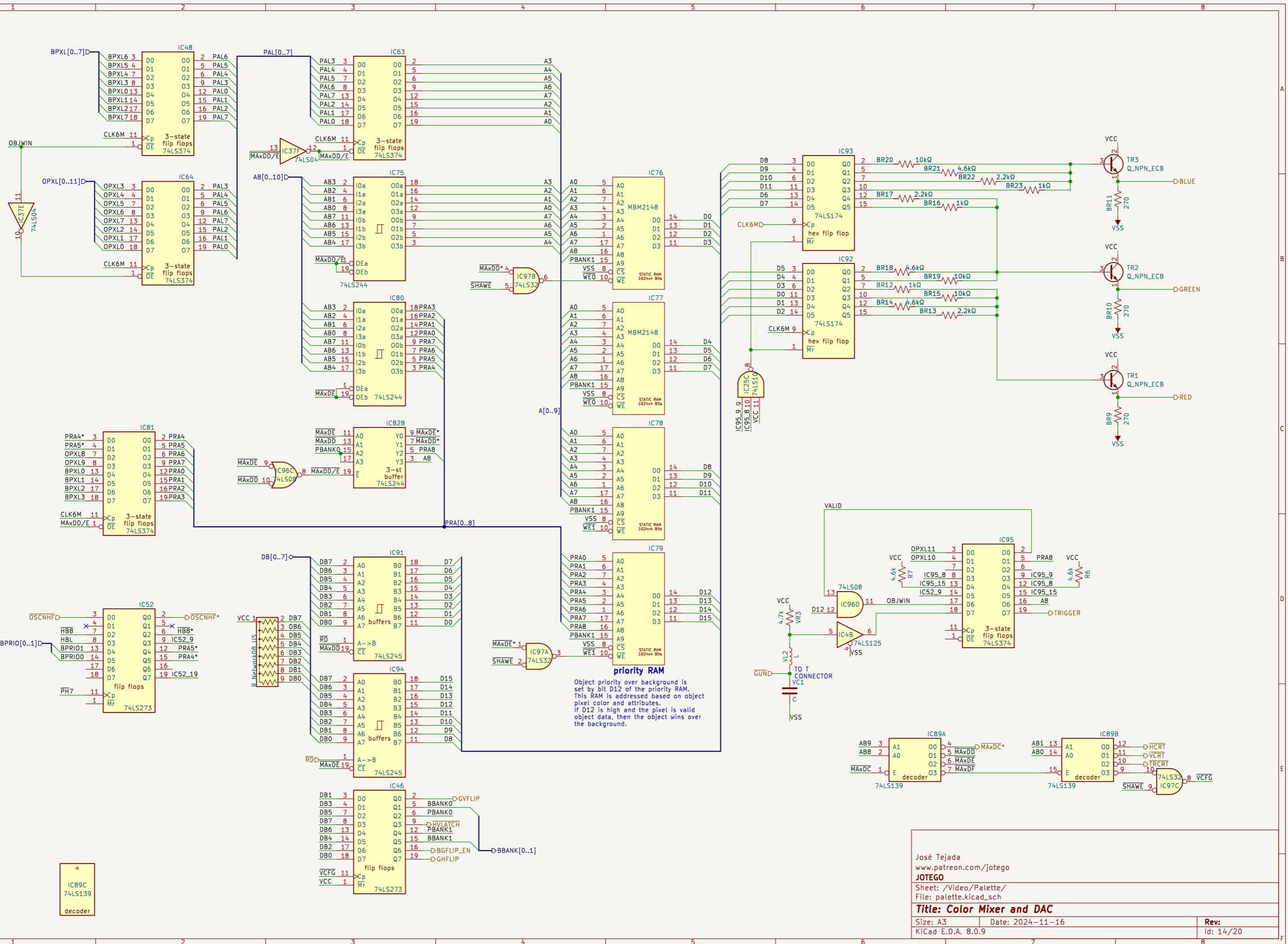
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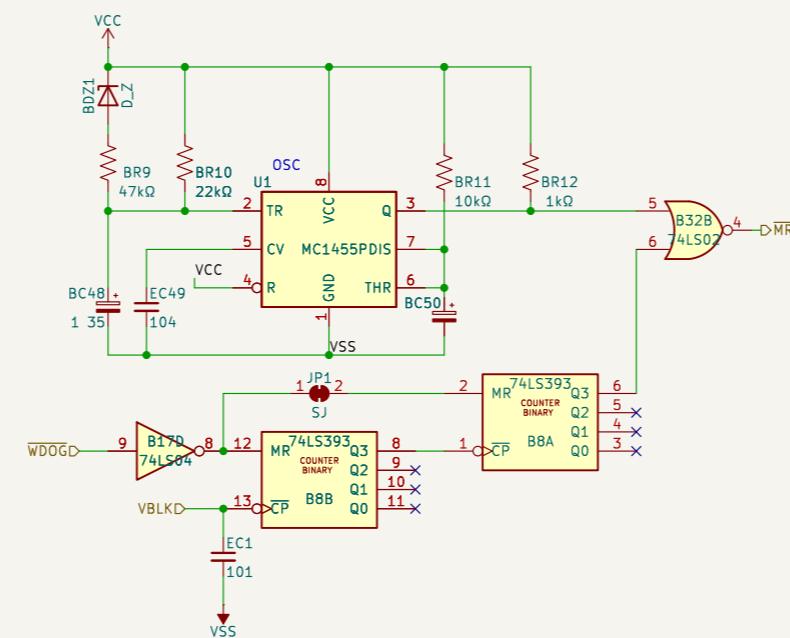
Sheet: /Main/MCU/  
File: mcu.kicad\_sch

**Title: MCU**

Size: A3 Date: 2024-11-16  
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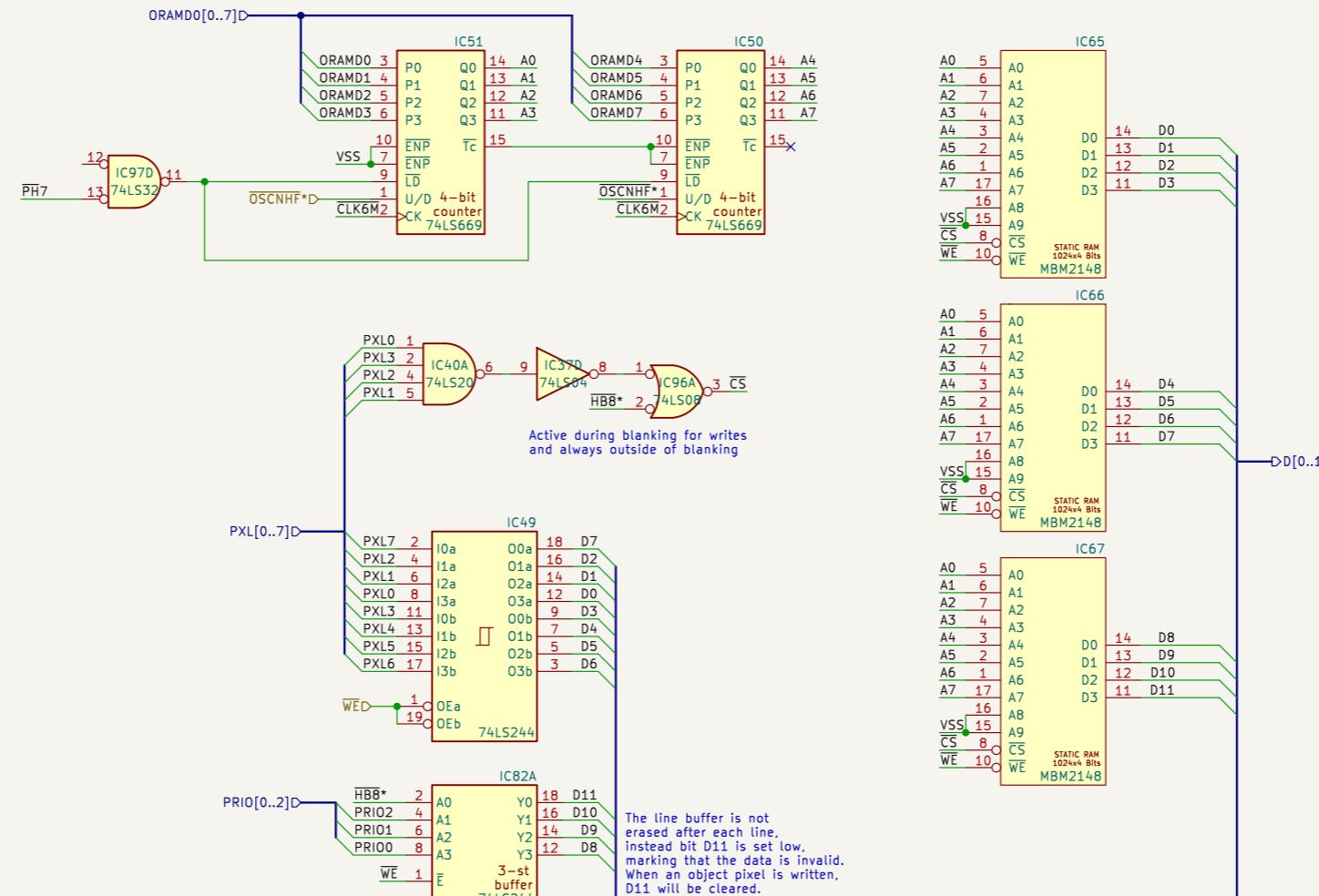
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File: watchdog.kicad\_sch

**Title:**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9

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Id: 15/20



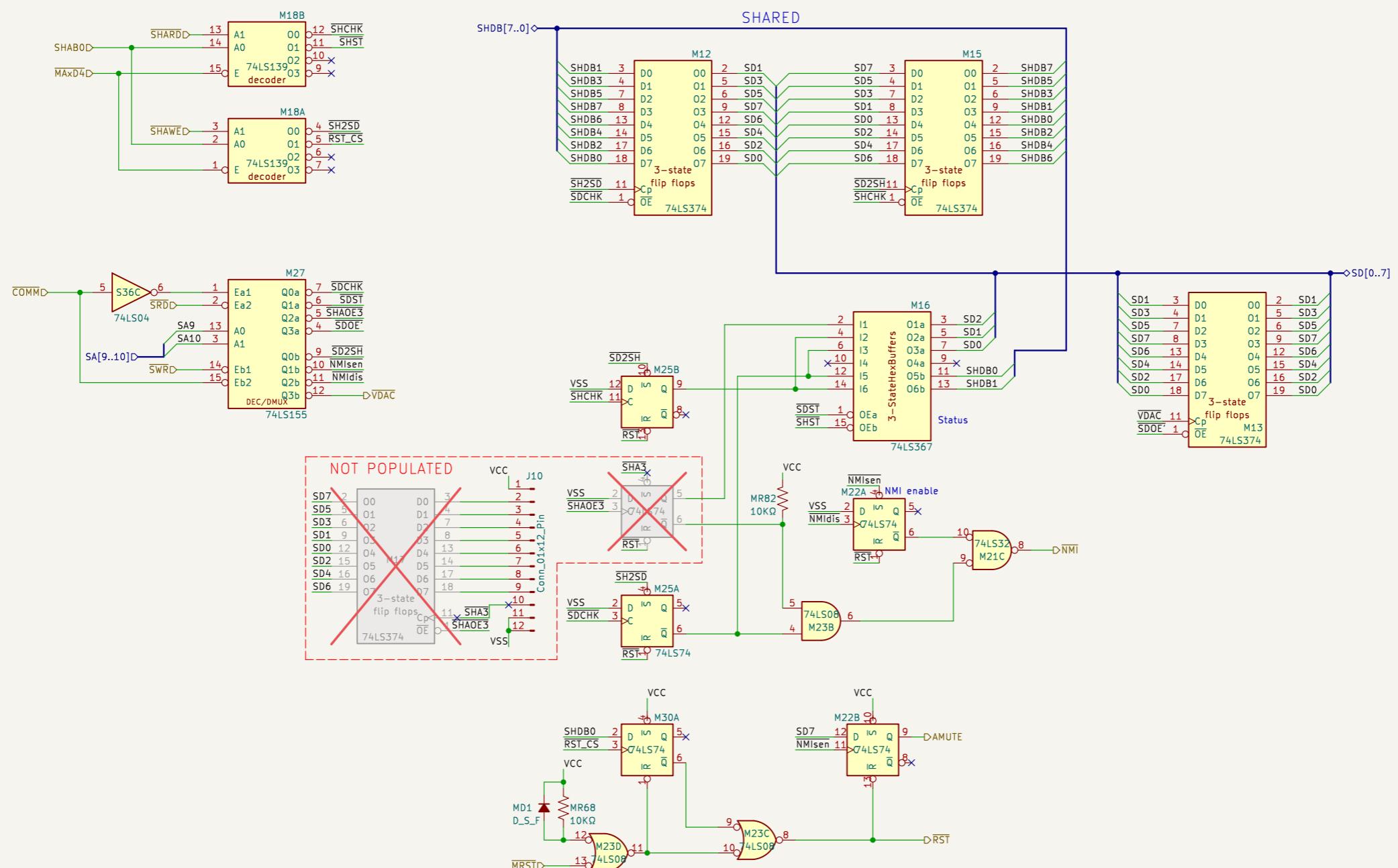


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Sheet: /Video/Line buffer/  
File: linebuf.kicad\_sch

**Title: Single Line Video Buffer**

Size: A3	Date: 2024-11-16
KiCad E.D.A. 8.0.9	Rev: 17/20



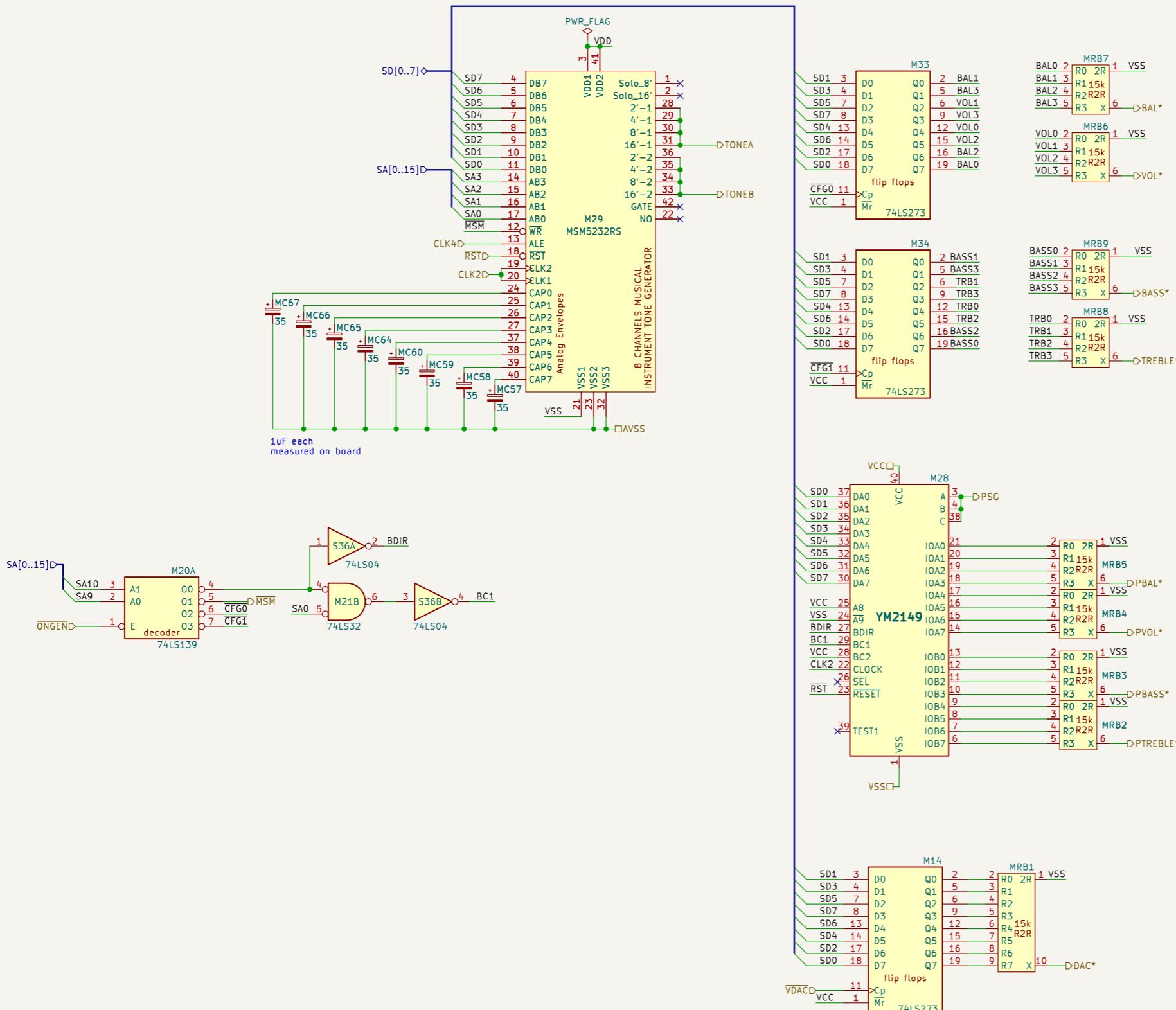
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Sheet: /Sound/Latches/  
File: latches.kicad\_sch

**Title: Communication Latches**

Size: A3 | Date: 2024-11-16  
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Id: 18/20



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Sheet: /Sound/Sound Generators/  
File: ongen.kicad\_sch

**Title: Sound Generators**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9

Rev: Id: 19/20

