

José Tejada  
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Sheet: /Video/

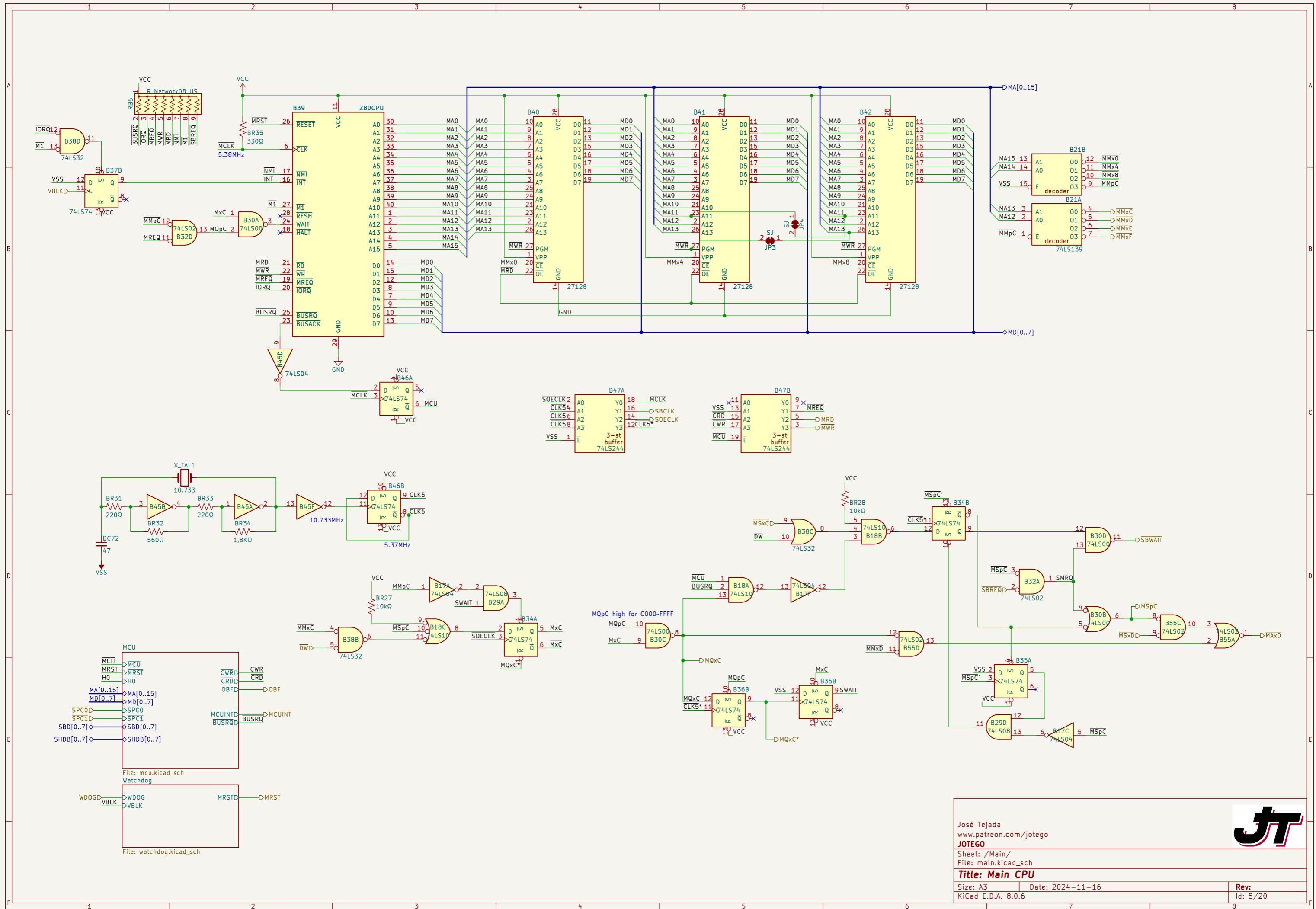
File: video.

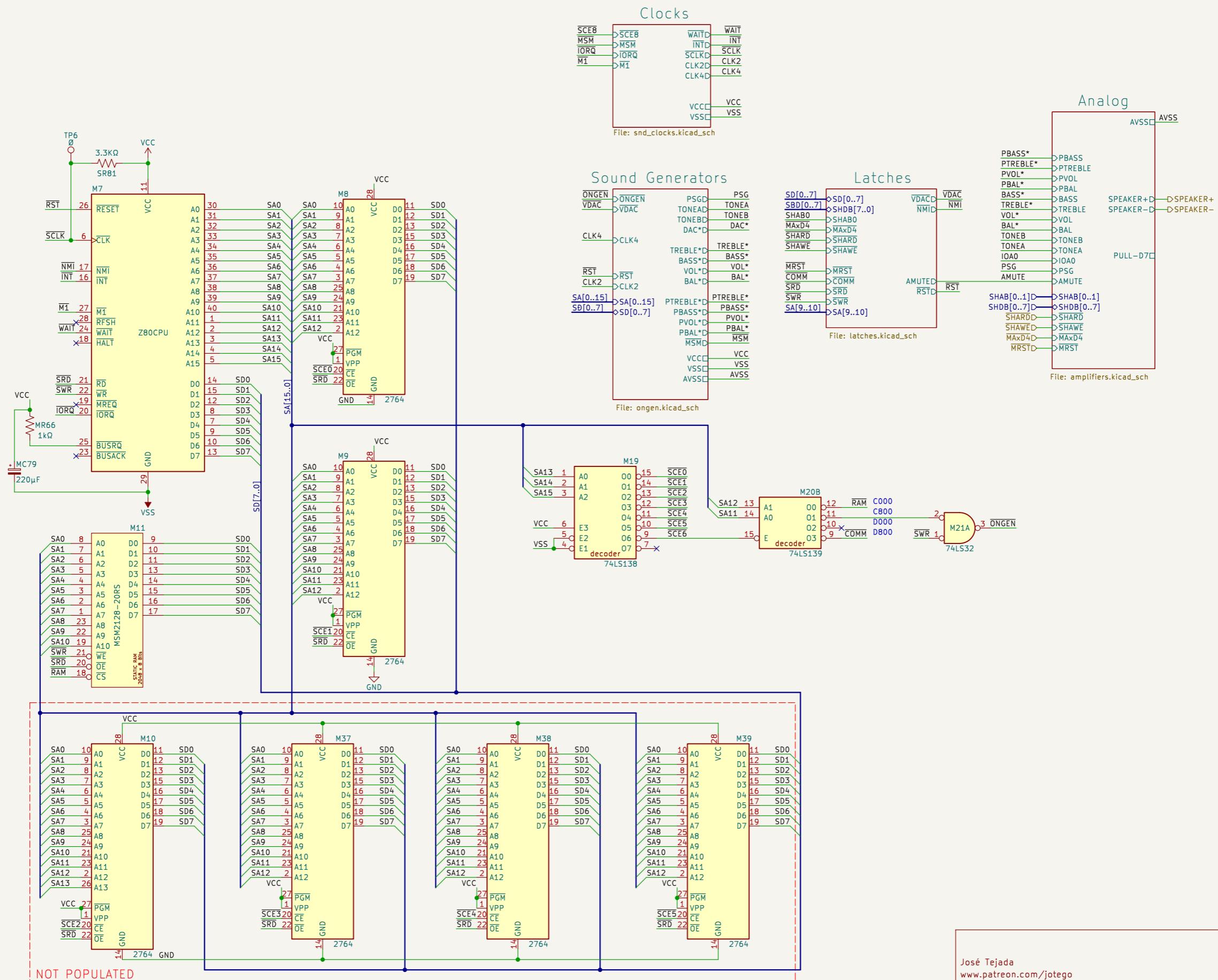
## Title: The Fairy

Size: A3 Date: 2

KiCad E.D.A. 8.0.6

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Sheet: /Sound/

File: sound.kicad\_sch

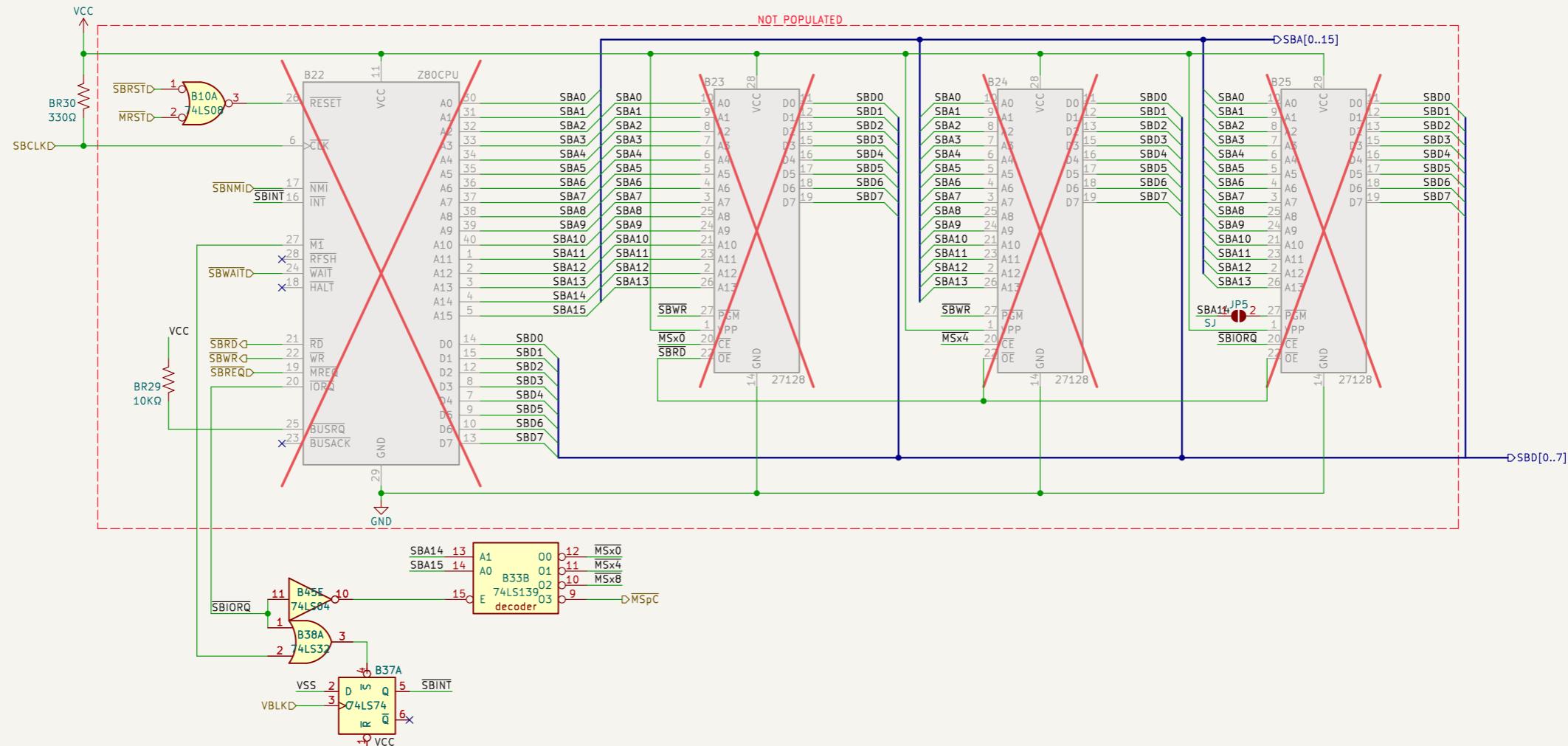
## Title: Sound Board

Size: A3 Date: 2024-11-16  
KiCad EDA 8.0.6

7

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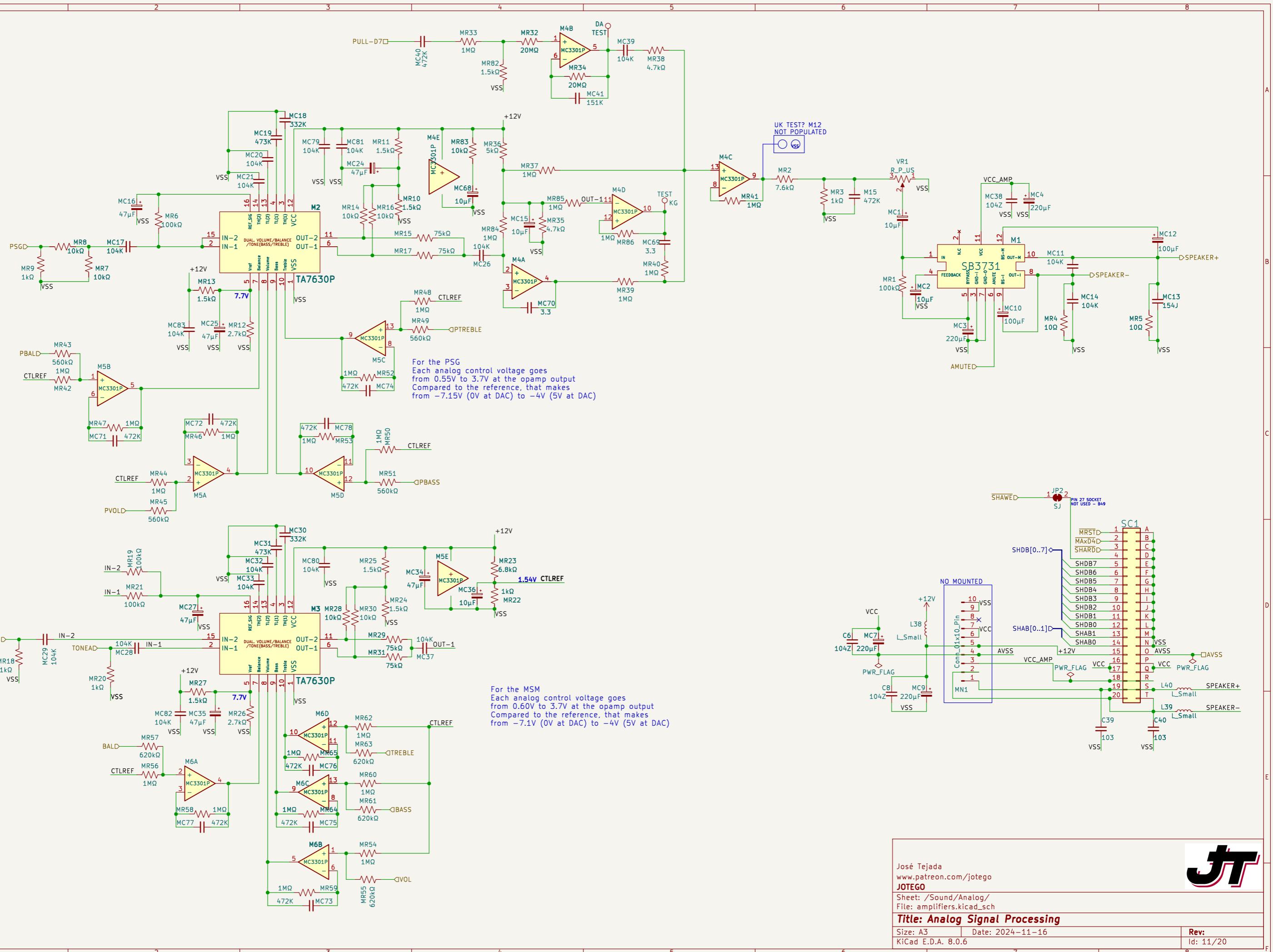


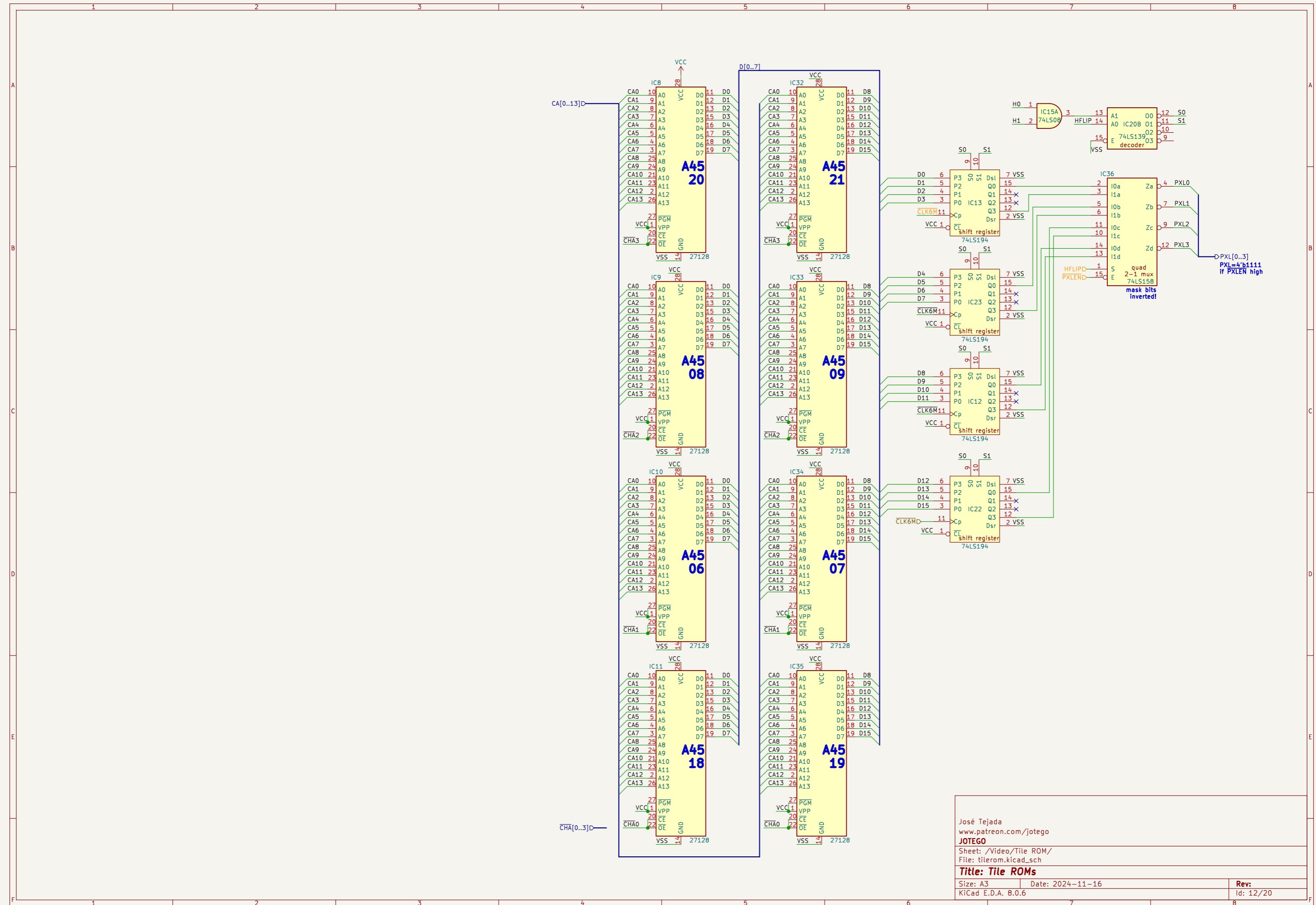
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Sheet: /Sub/  
File: sub\_main.kicad\_sch  
**Title: Subsidiary CPU**

Size: A3 | Date: 2024-11-16  
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Rev:  
Id: 10/20





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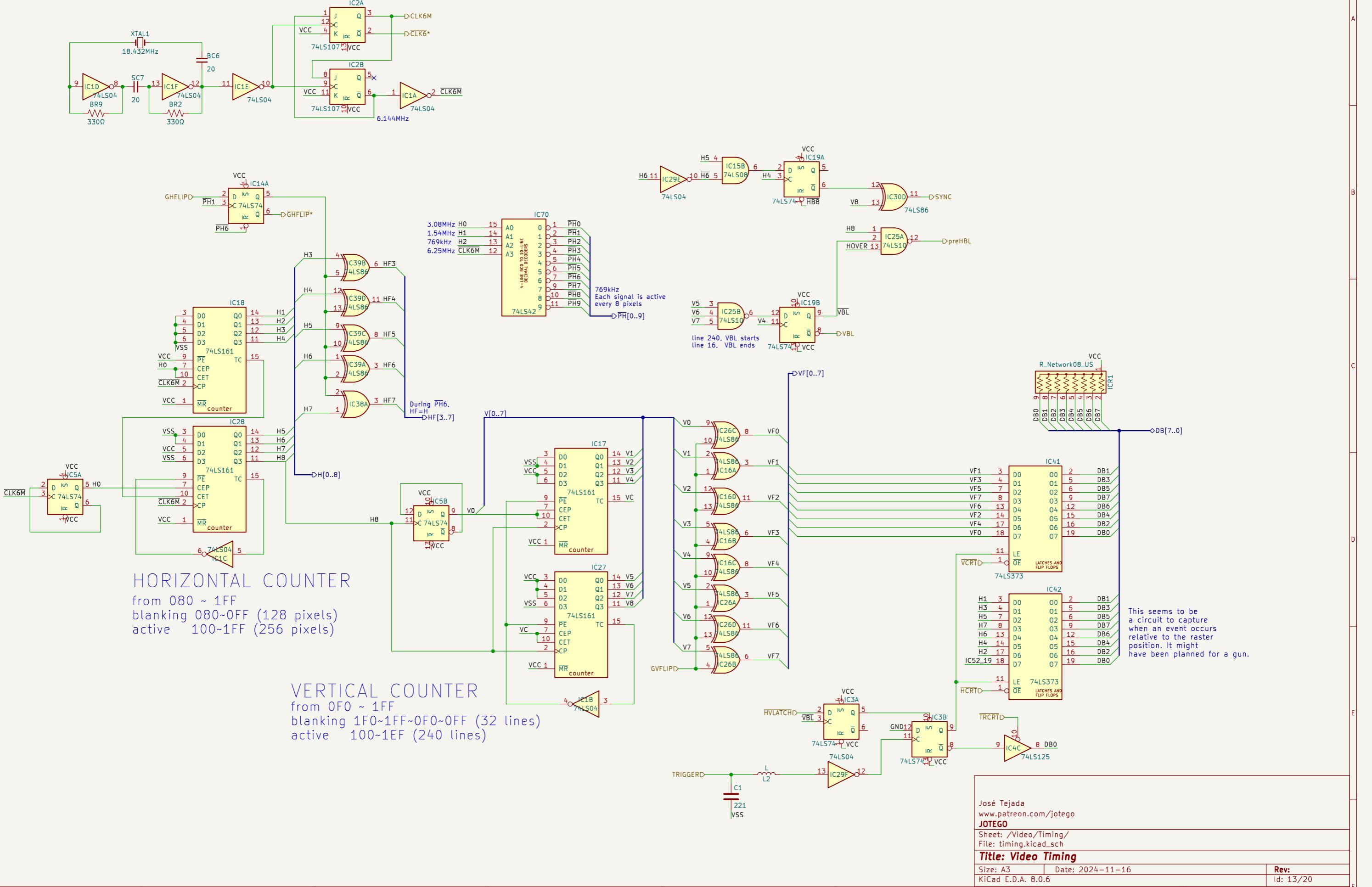
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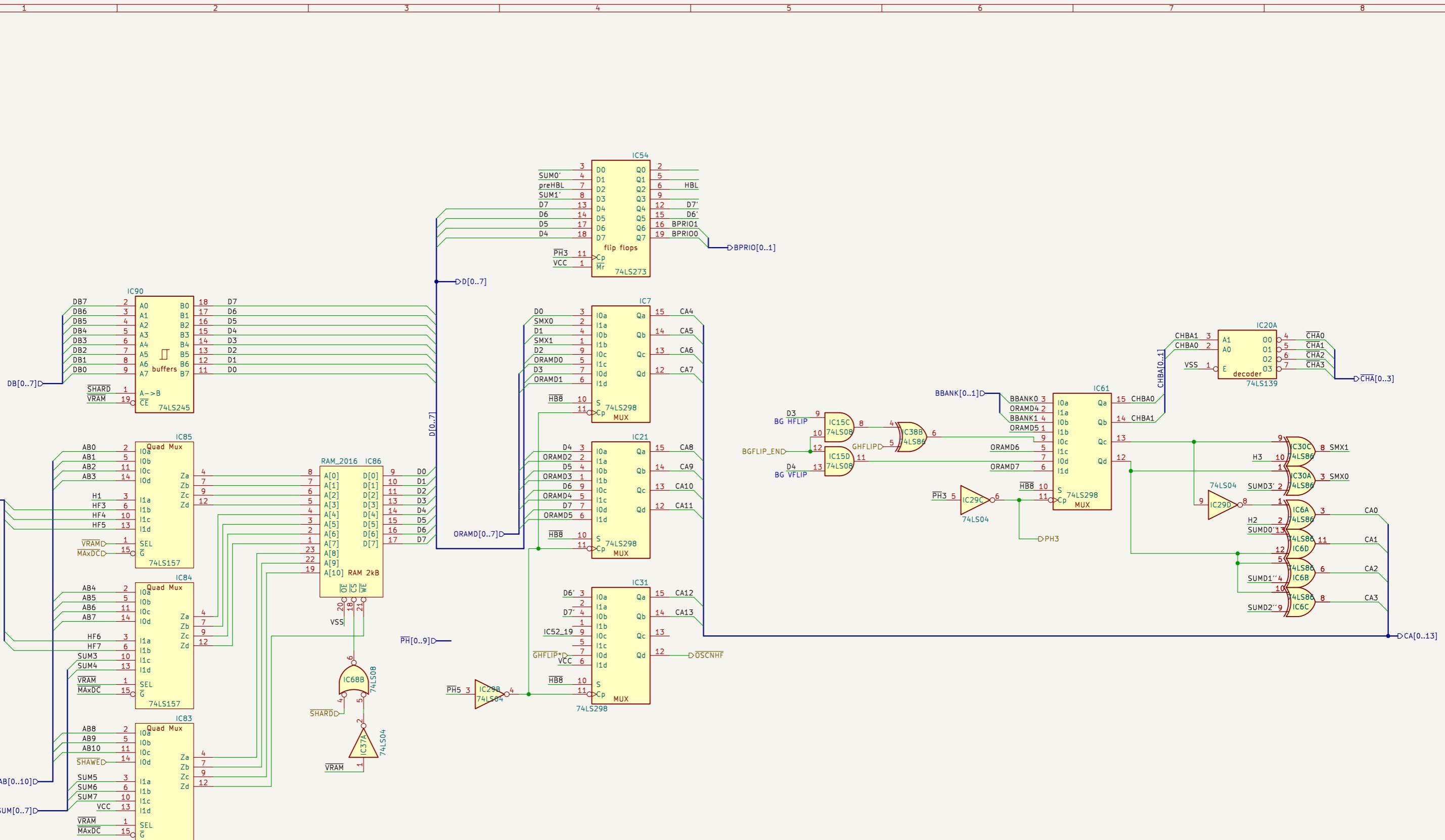
Sheet: /Video/Tile ROM/  
File: tilerom.kicad\_sch

**Title: Tile ROMs**

Size: A3 | Date: 2024-11-16  
KiCad E.D.A. 8.0.6

Rev: 12/20





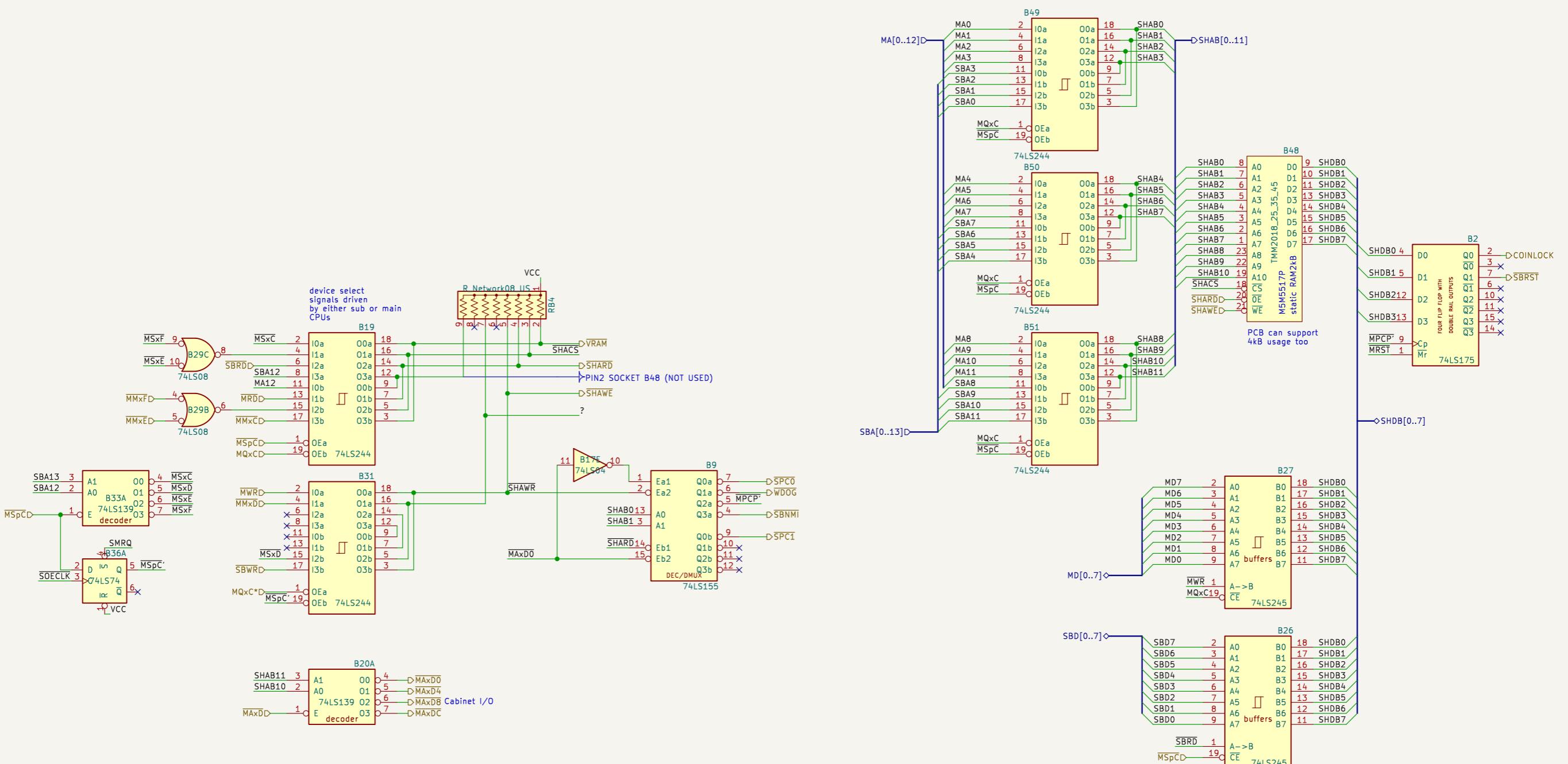
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Sheet: /Video/Video RAM/  
File: vram.kicad\_sch

**Title: Background Video RAM**

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



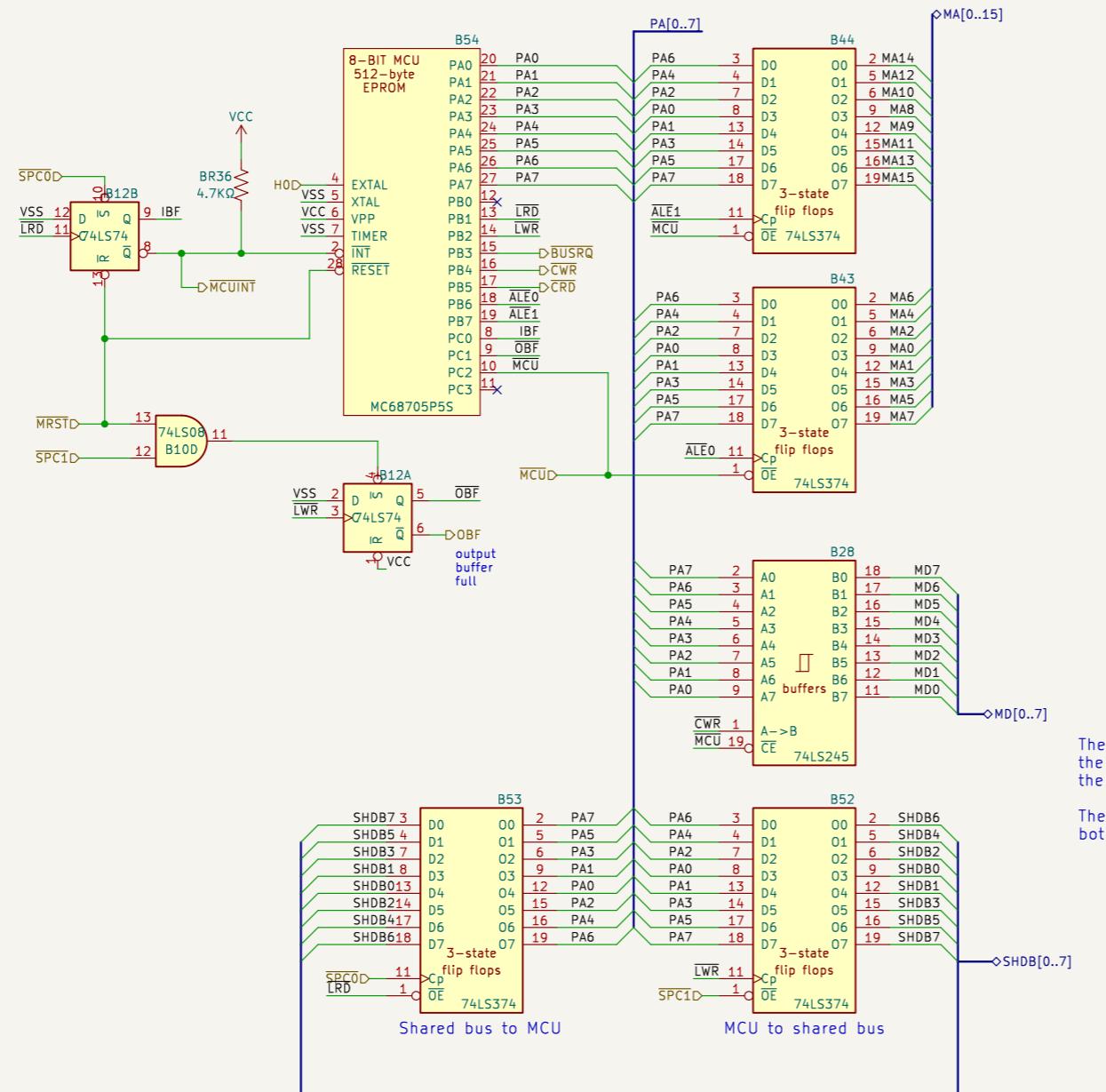
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JOTEGO  
 Sheet: /Shared/  
 File: shared.kicad\_sch

**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

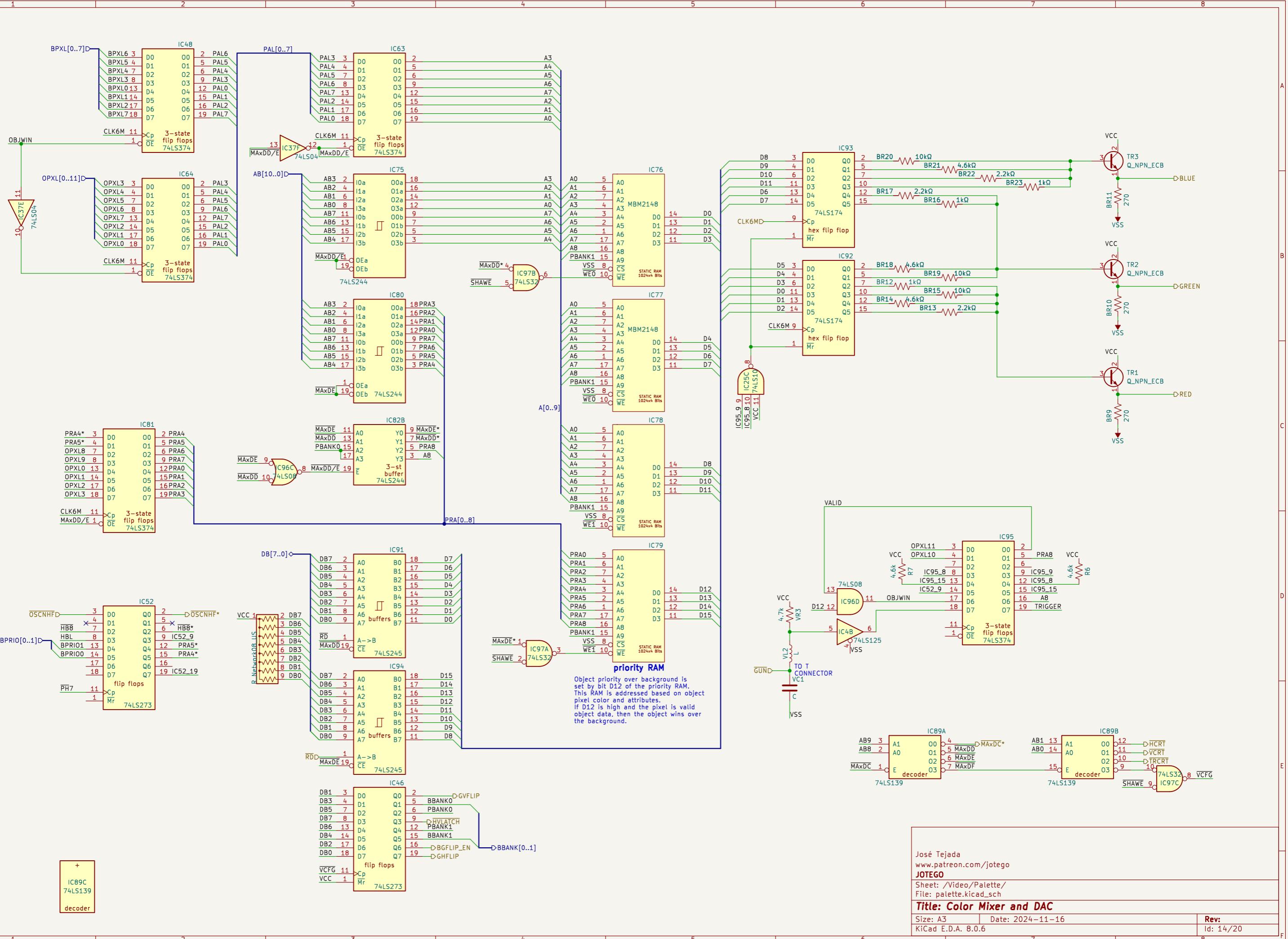
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Sheet: /Main/MCU/  
File: mcu.kicad\_sch

**Title: MCU**

Size: A3 Date: 2024-11-16  
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Rev: Id: 14/20



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**JOTEGO**  
Sheet: /Video/Palette/  
File: palette.kicad\_sch

**Title: Color Mixer and DAC**  
Size: A3 | Date: 2024-11-16  
KiCad E.D.A. 8.0.6 | Rev: 14/20

A

B

C

D

E

F

A

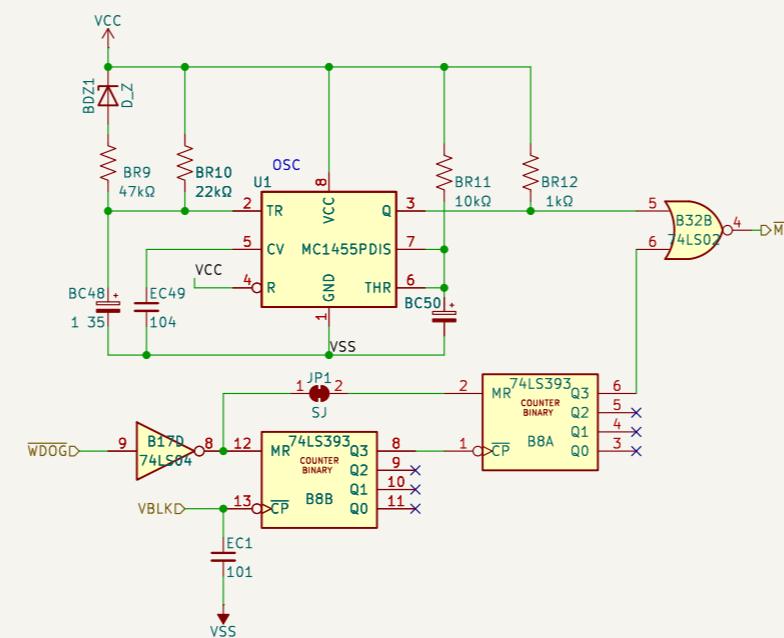
B

C

D

E

F



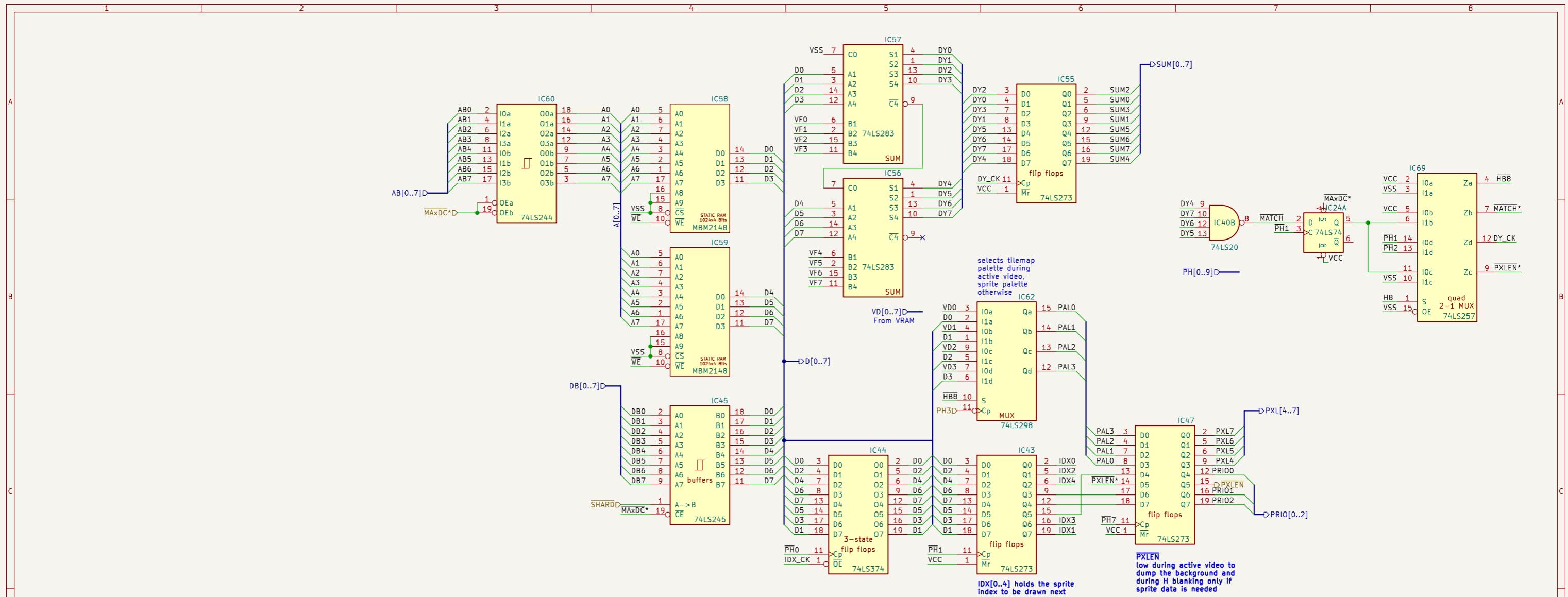
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**JOTEGO**

Sheet: /Main/Watchdog/  
File: watchdog.kicad\_sch

**Title:**

Size: A3	Date: 2024-11-16
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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

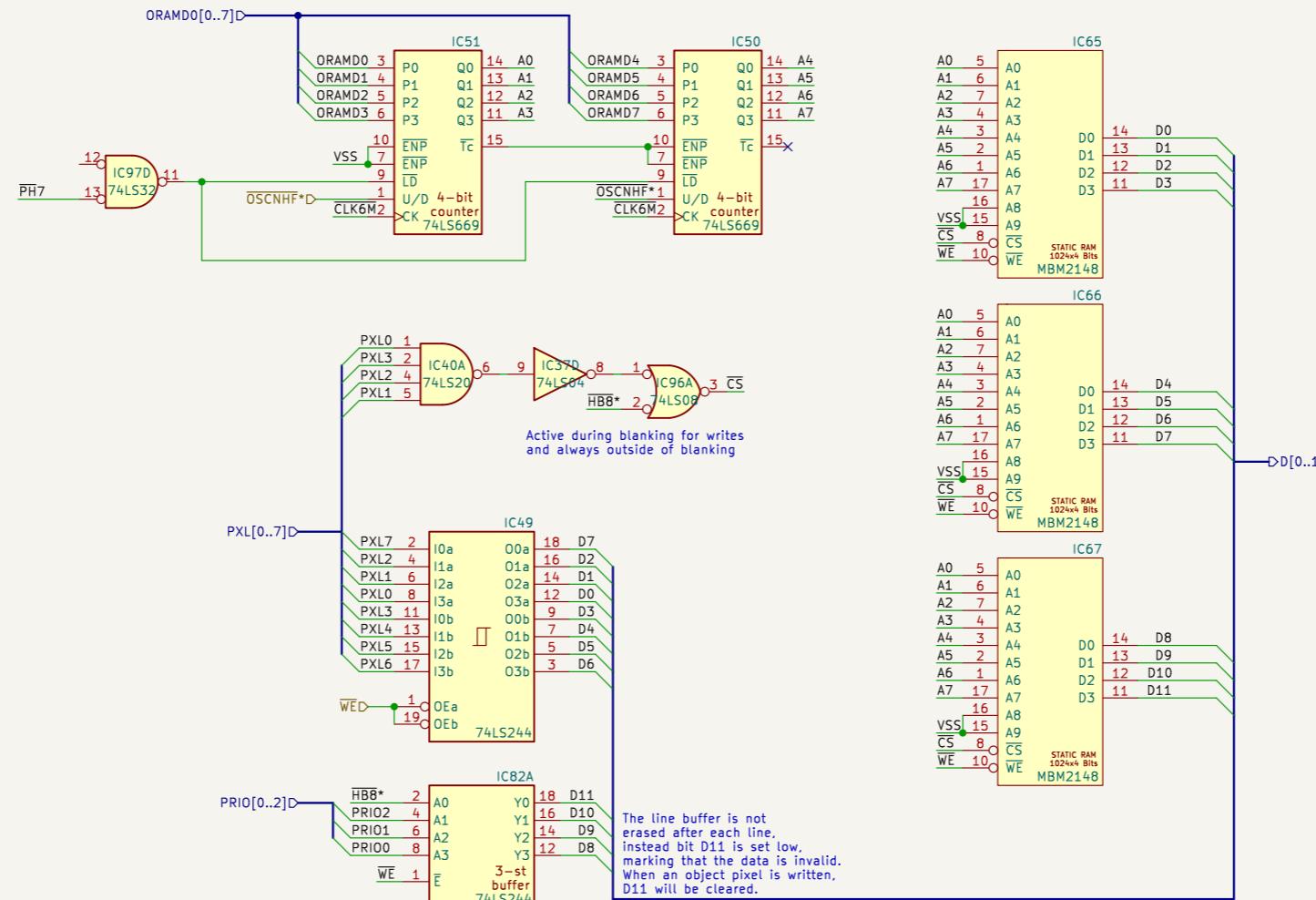
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## Title: Object Information

Size: A3 Date: 2024-11-  
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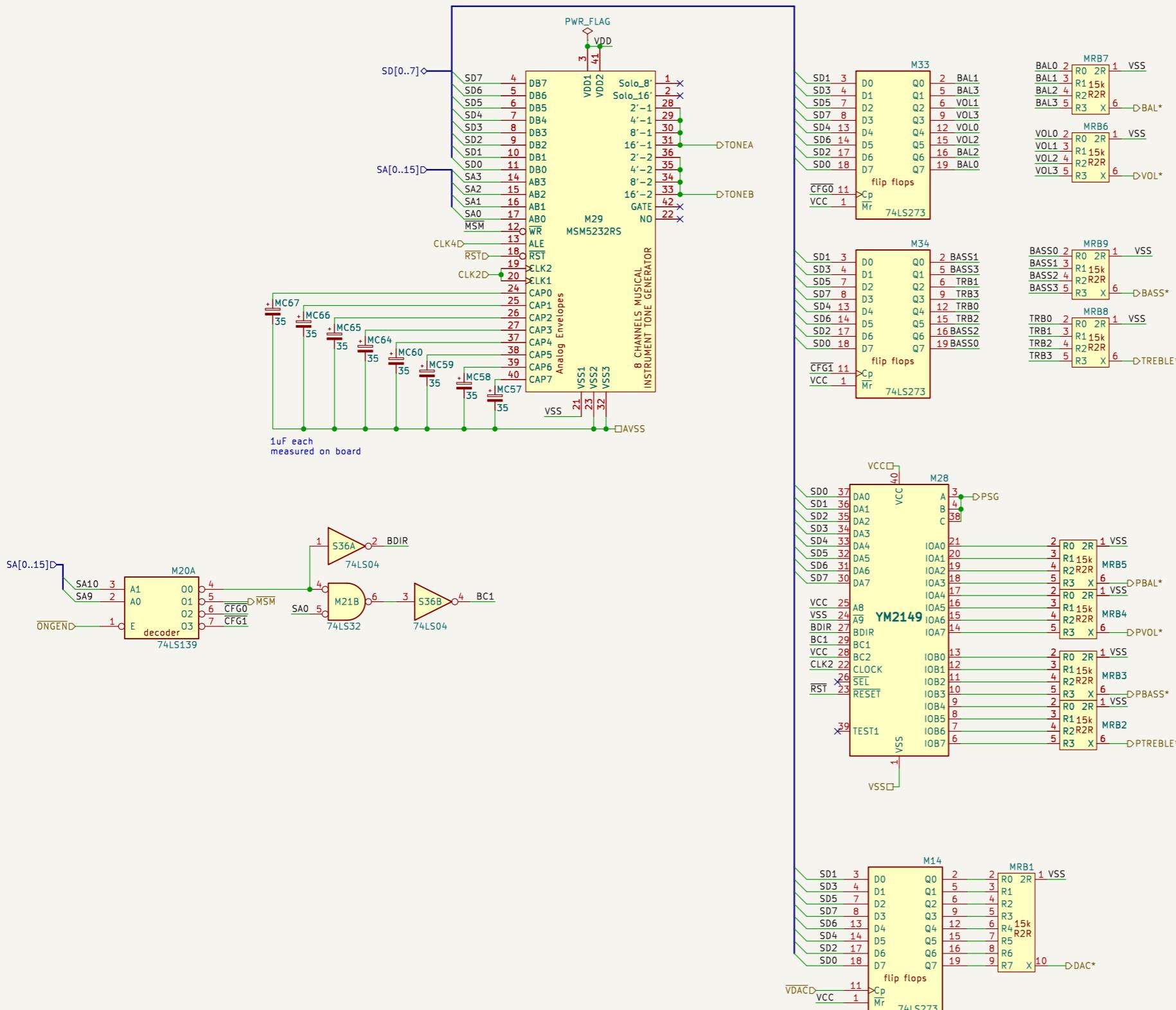
Sheet: /Video/Line buffer/  
File: linebuf.kicad\_sch

**Title: Single Line Video Buffer**

Size: A3 | Date: 2024-11-16  
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Rev:  
Id: 17/20





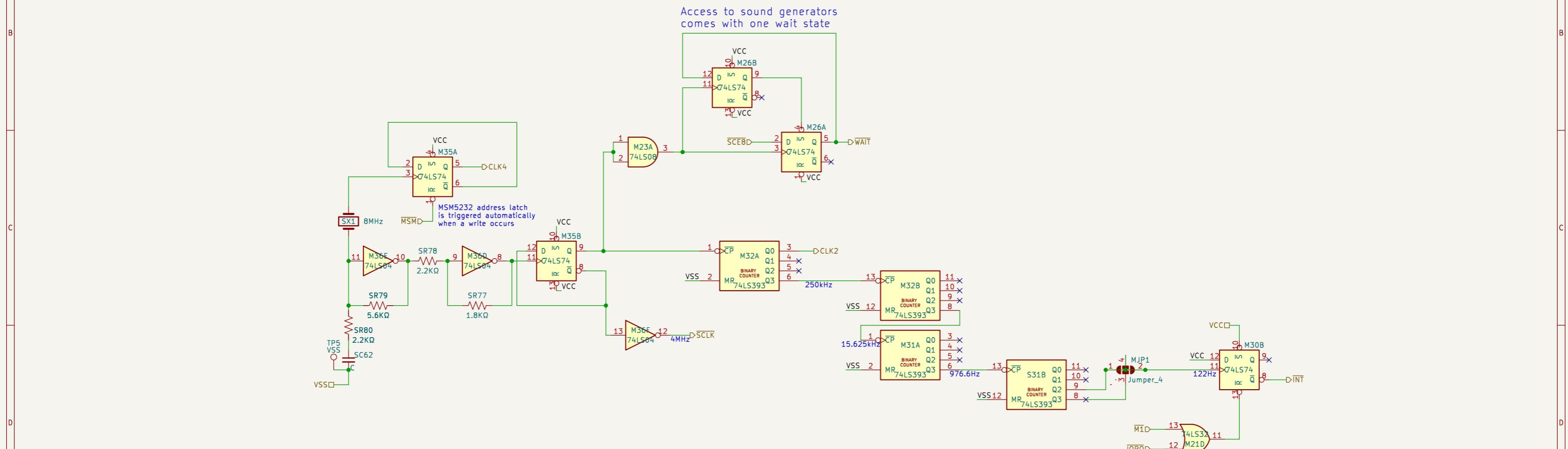
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**JOTEGO**  
Sheet: /Sound/Sound Generators/  
File: ongen.kicad\_sch

**Title: Sound Generators**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.6

Rev:  
Id: 19/20



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Sheet: /Sound/Clocks/  
File: snd\_clocks.kicad\_sch

**Title: Sound Clock Generation**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.6

Rev: Id: 20/20