

José Tejada
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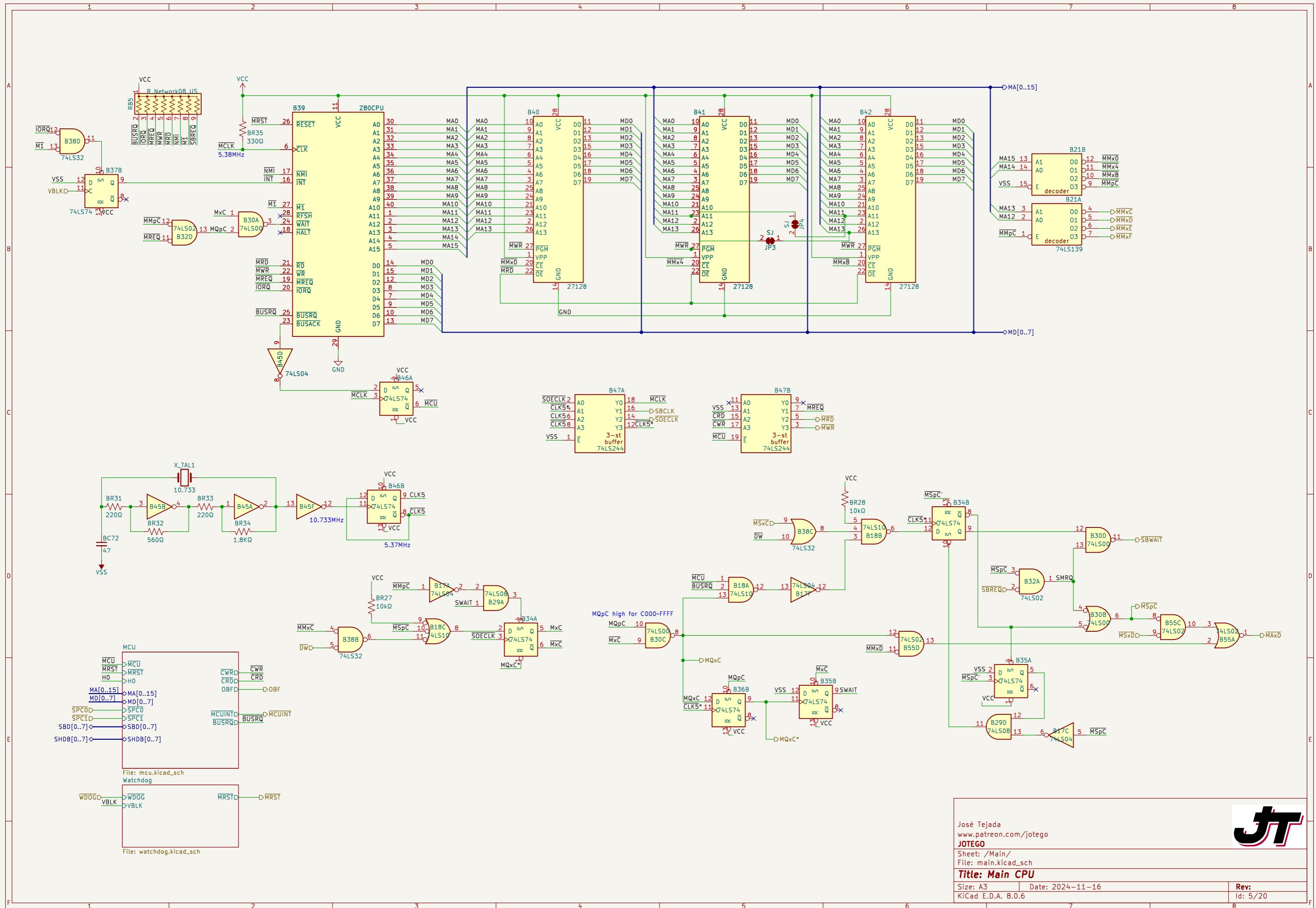
Sheet: /Video/

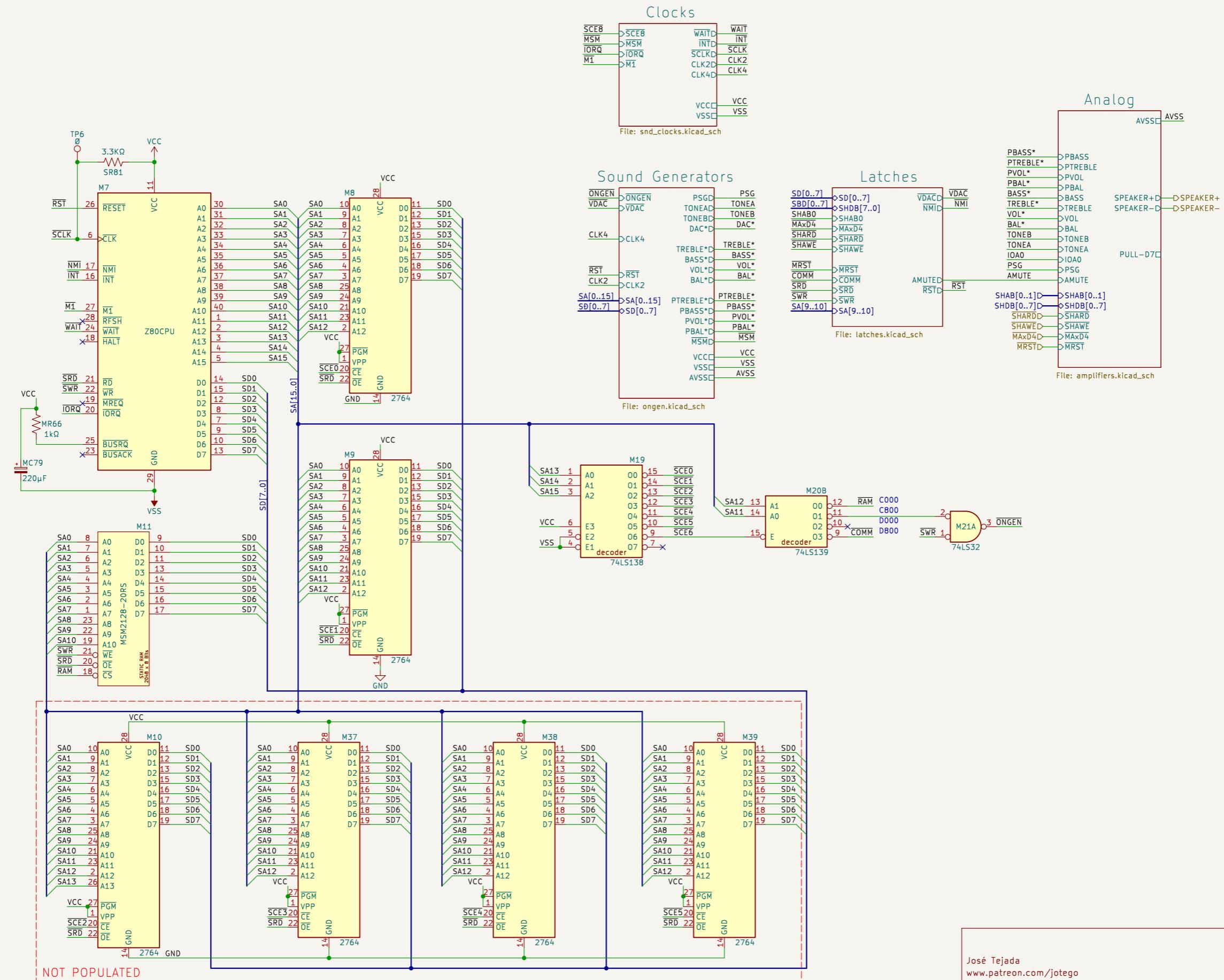
File: video.

Title: The Fairyl

Size: A3 Date: 2

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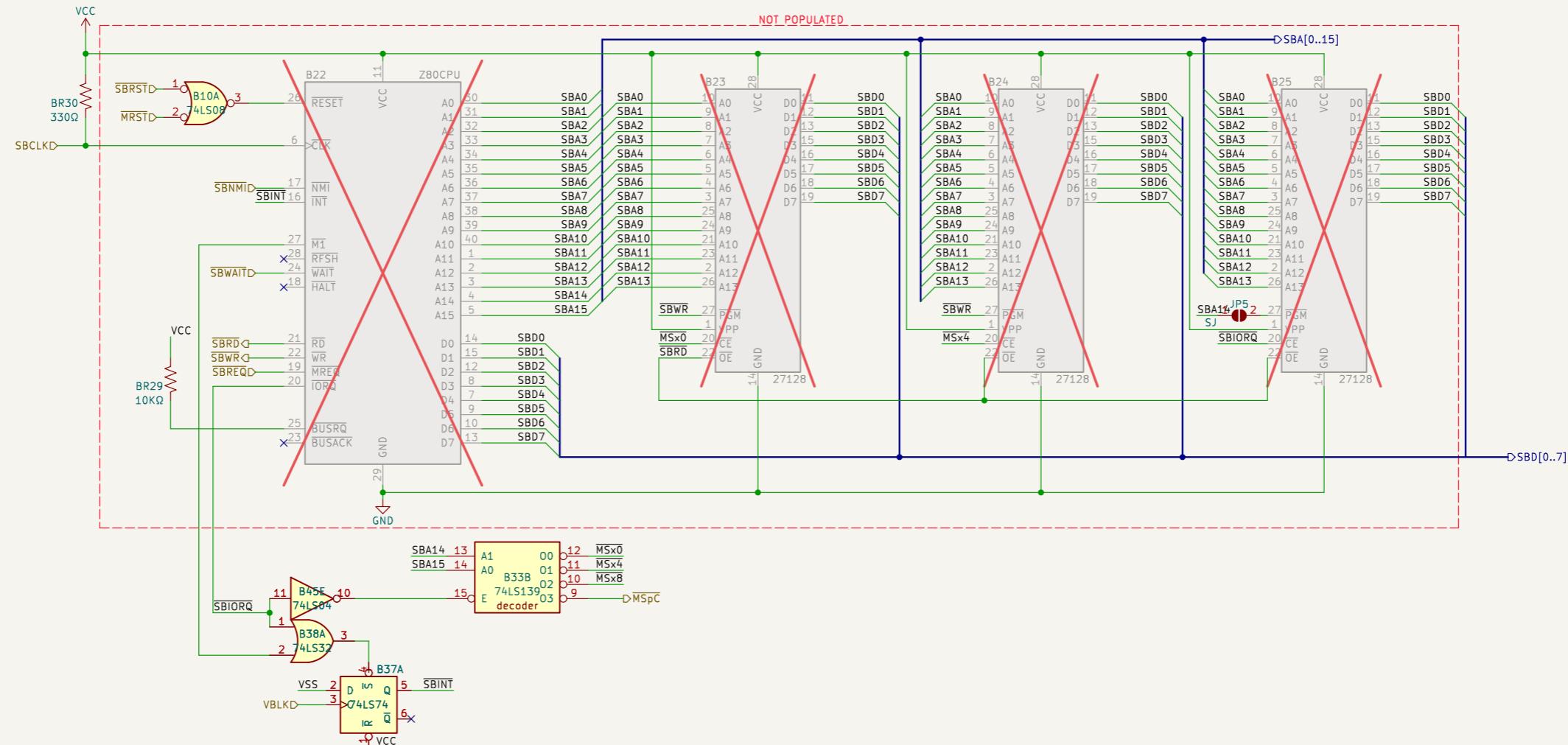
Sheet: /Sound/
File: sound.kicad_sch

Title: Sound Board

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

Rev: Id: 7/20



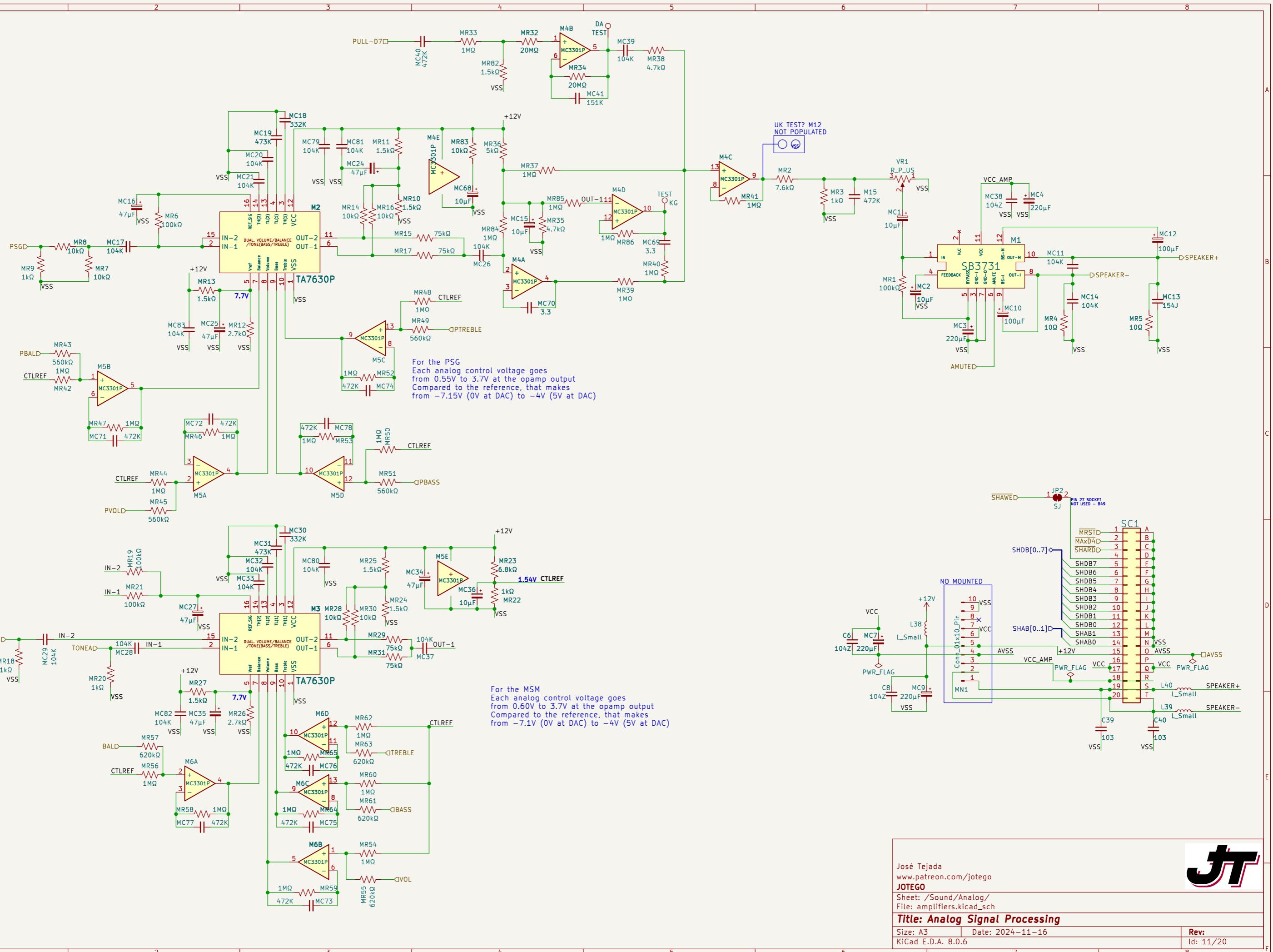


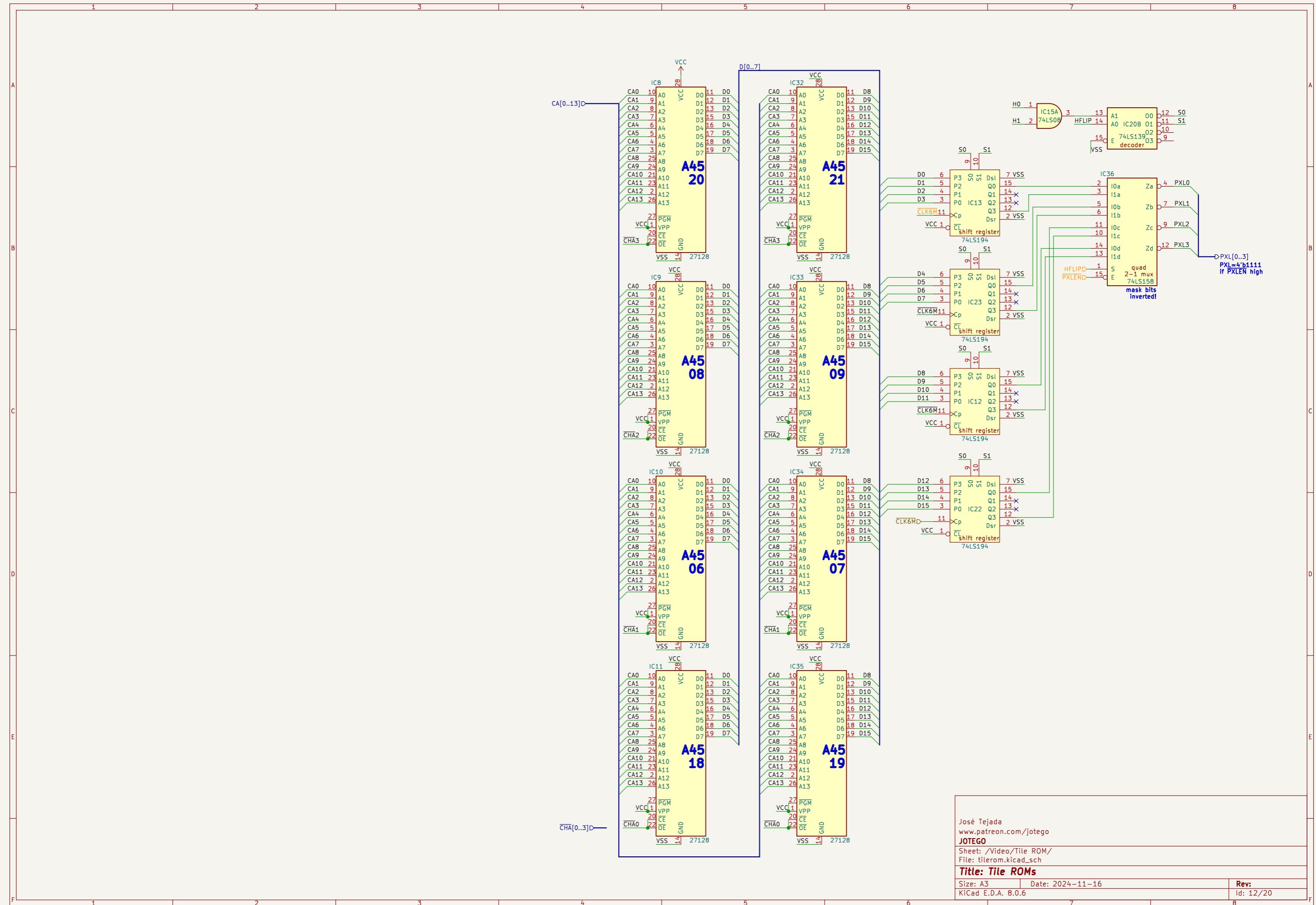
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Sheet: /Sub/
File: sub_main.kicad_sch
Title: Subsidiary CPU

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





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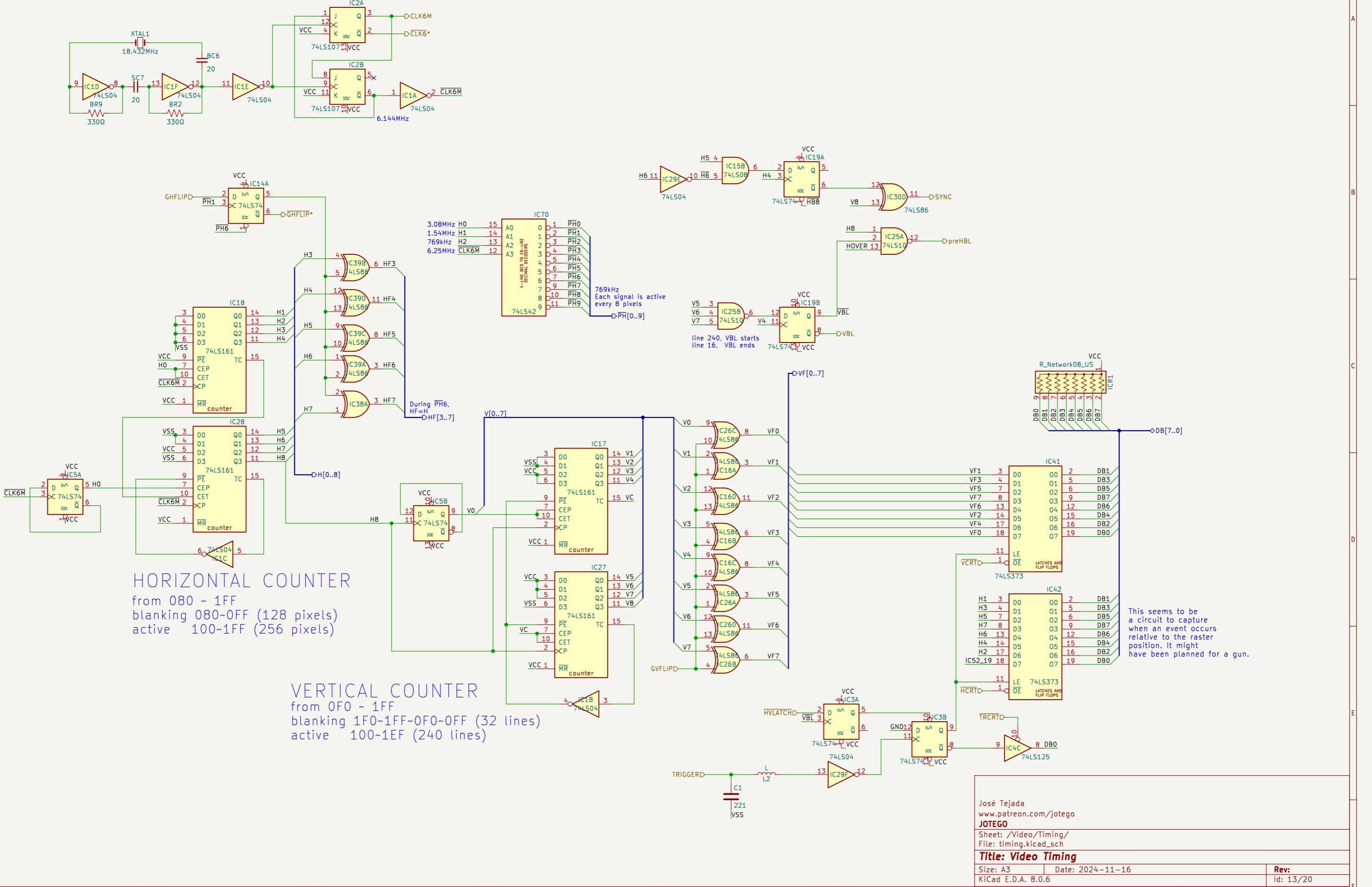
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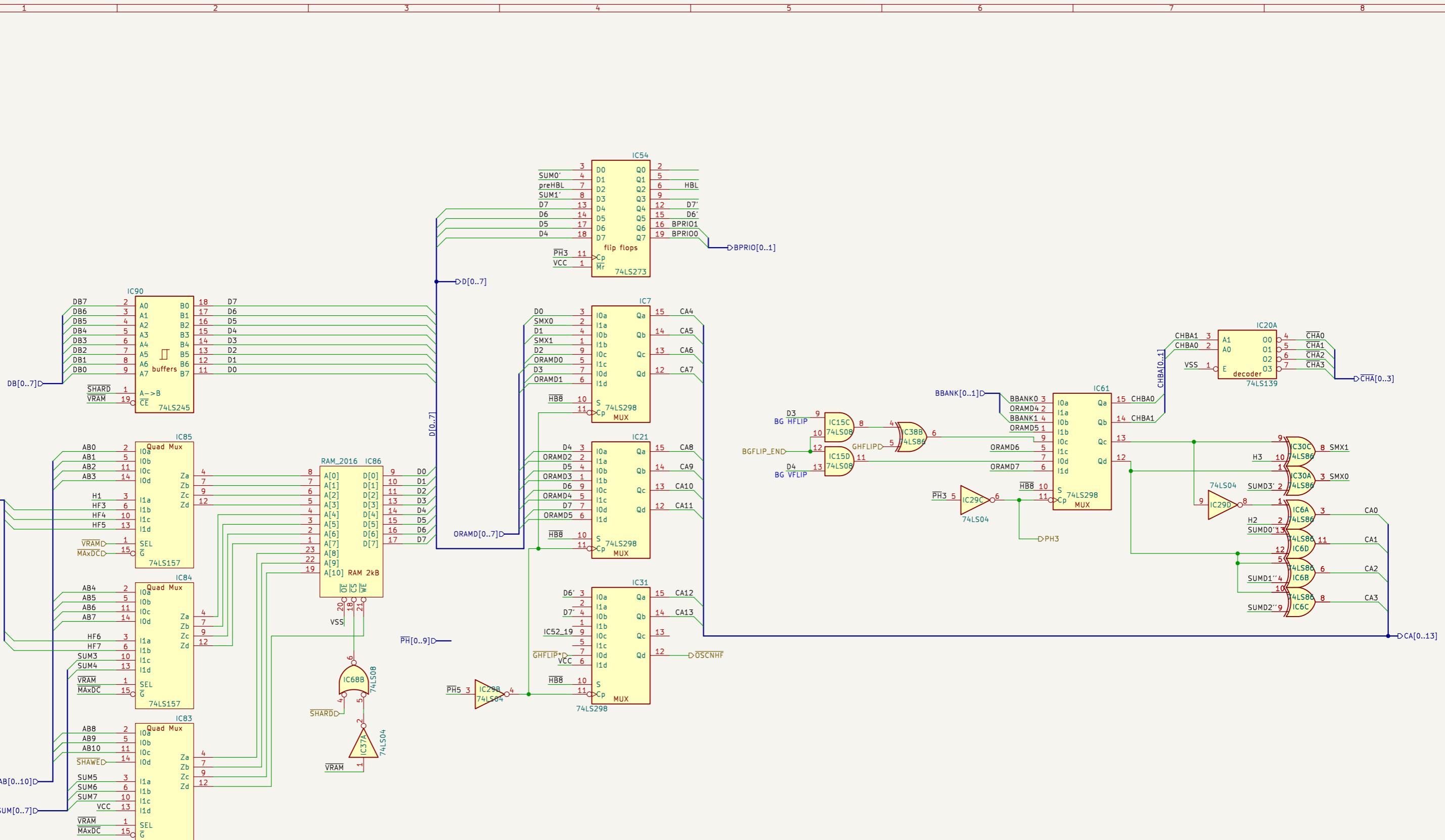
Sheet: /Video/Tile ROM/
File: tilerom.kicad_sch

Title: Tile ROMs

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

Rev: 12/20





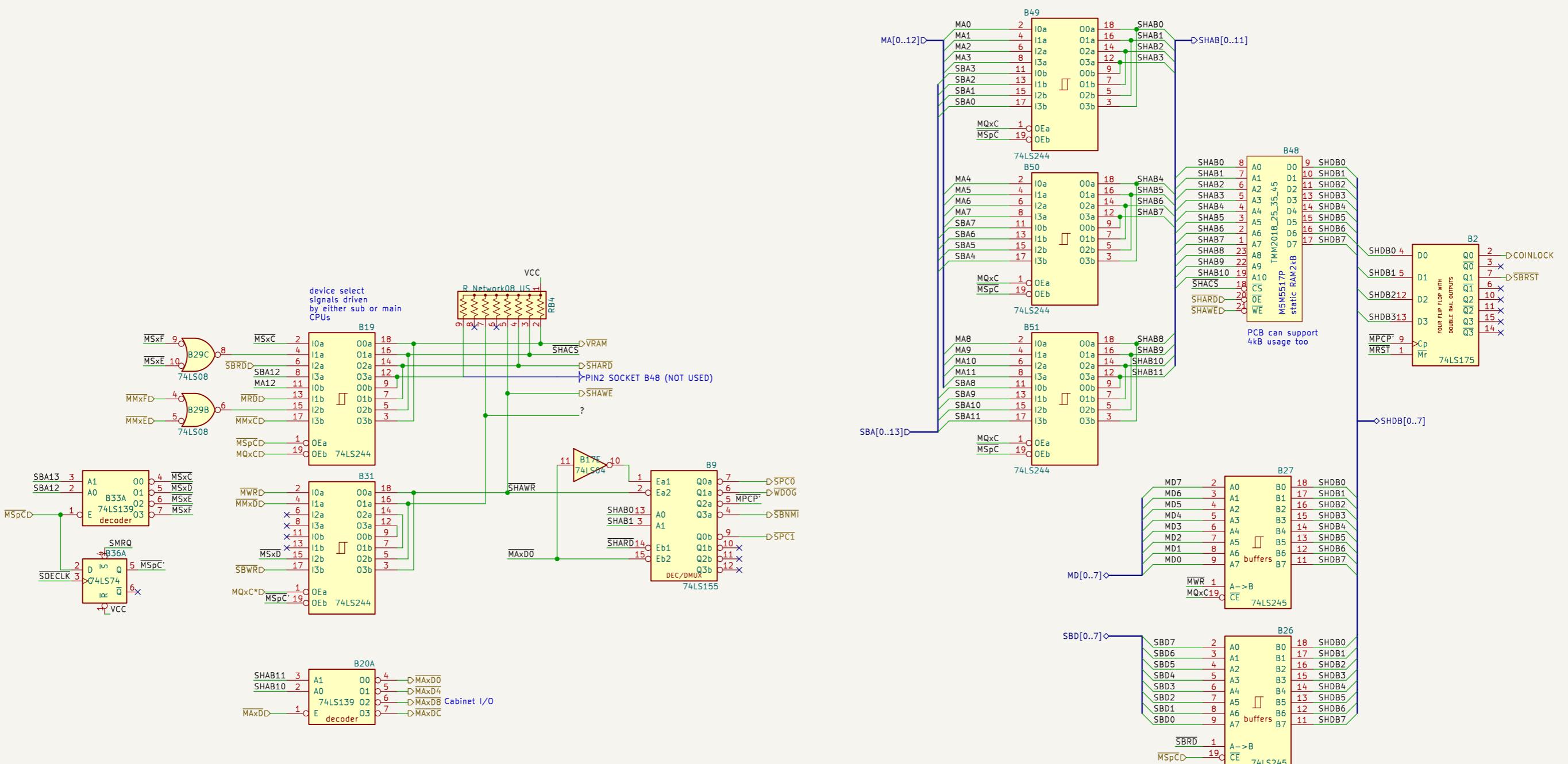
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Sheet: /Video/Video RAM/
File: vram.kicad_sch

Title: Background Video RAM

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



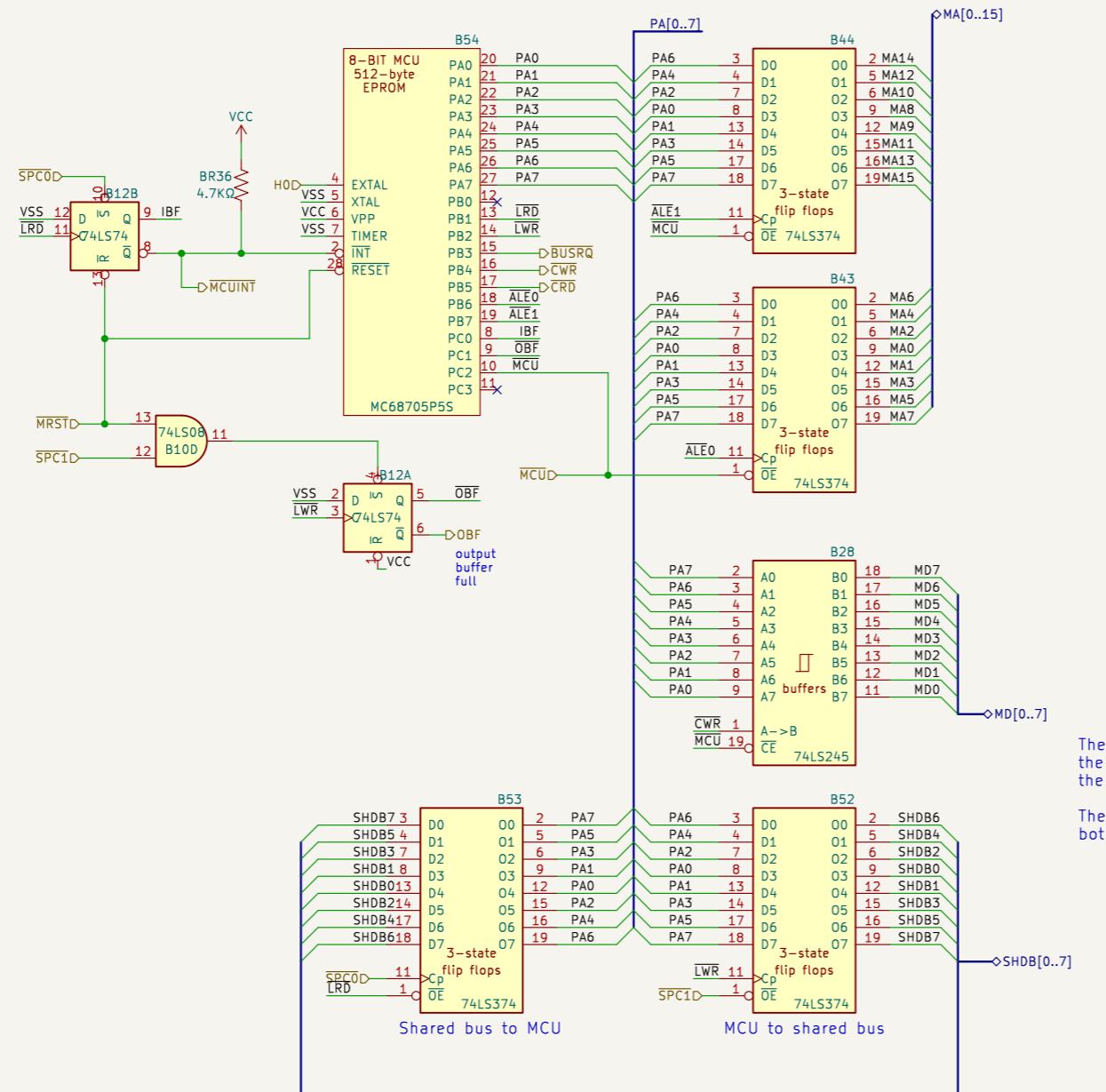
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Sheet: /Shared/
File: shared.kicad_sch

Title: Shared bus and RAM

Size: A3 | Date: 2024-11-16
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Rev: 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

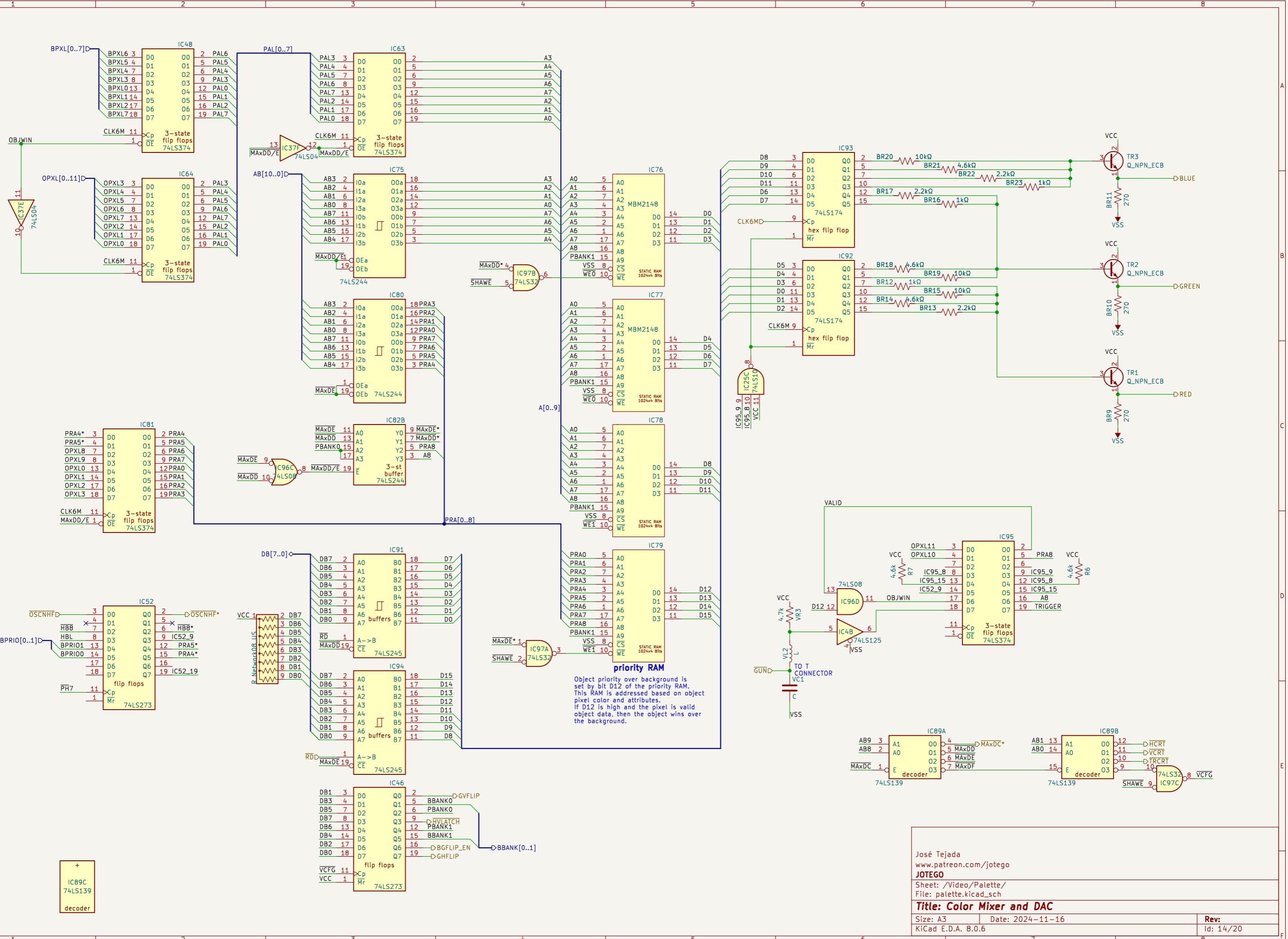
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Sheet: /Main/MCU/
 File: mcu.kicad_sch

Title: MCU

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

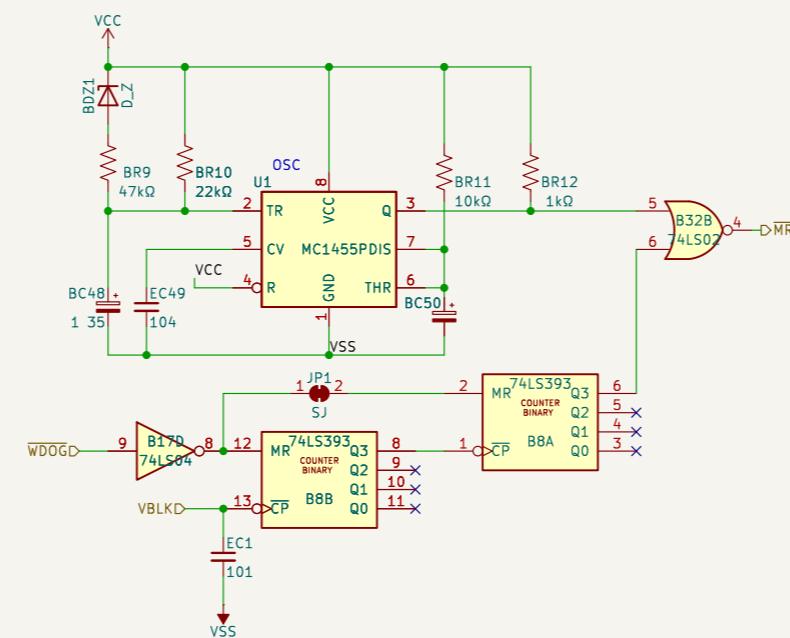
Rev: Id: 14/20



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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:
Id: 14/20



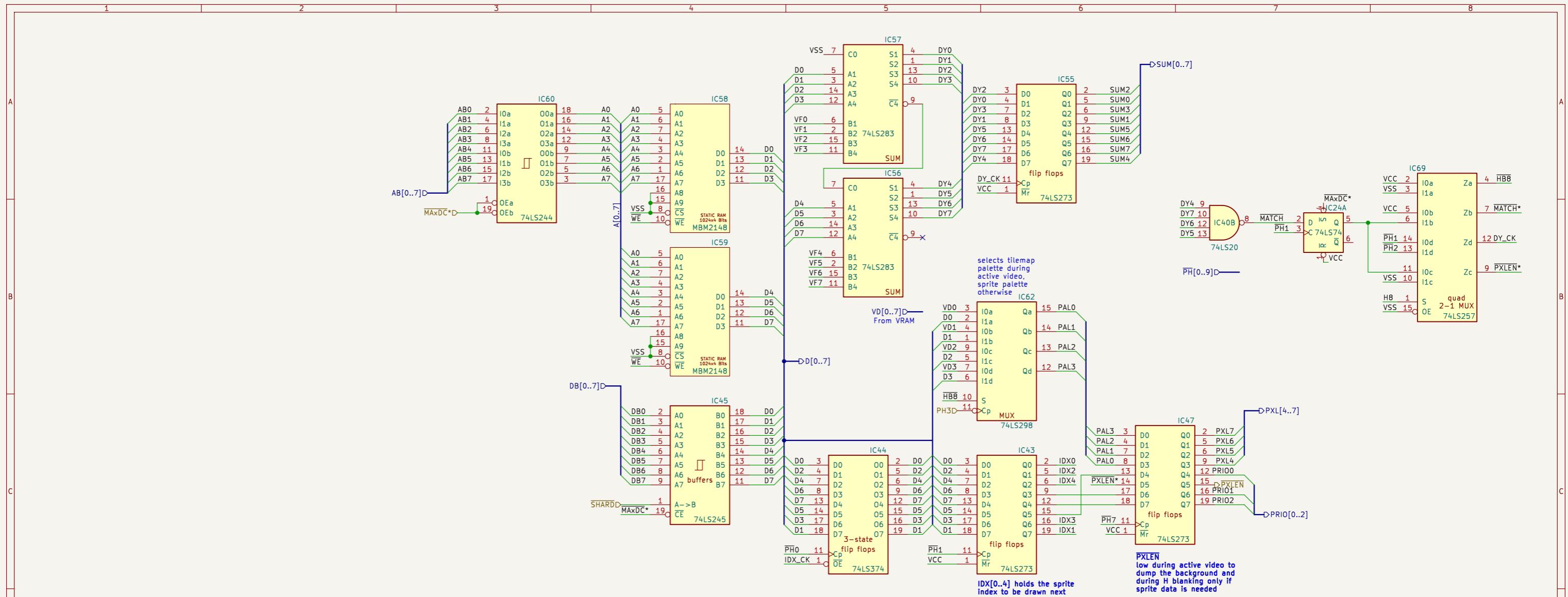
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Sheet: /Main/Watchdog/
File: watchdog.kicad_sch

Title:

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

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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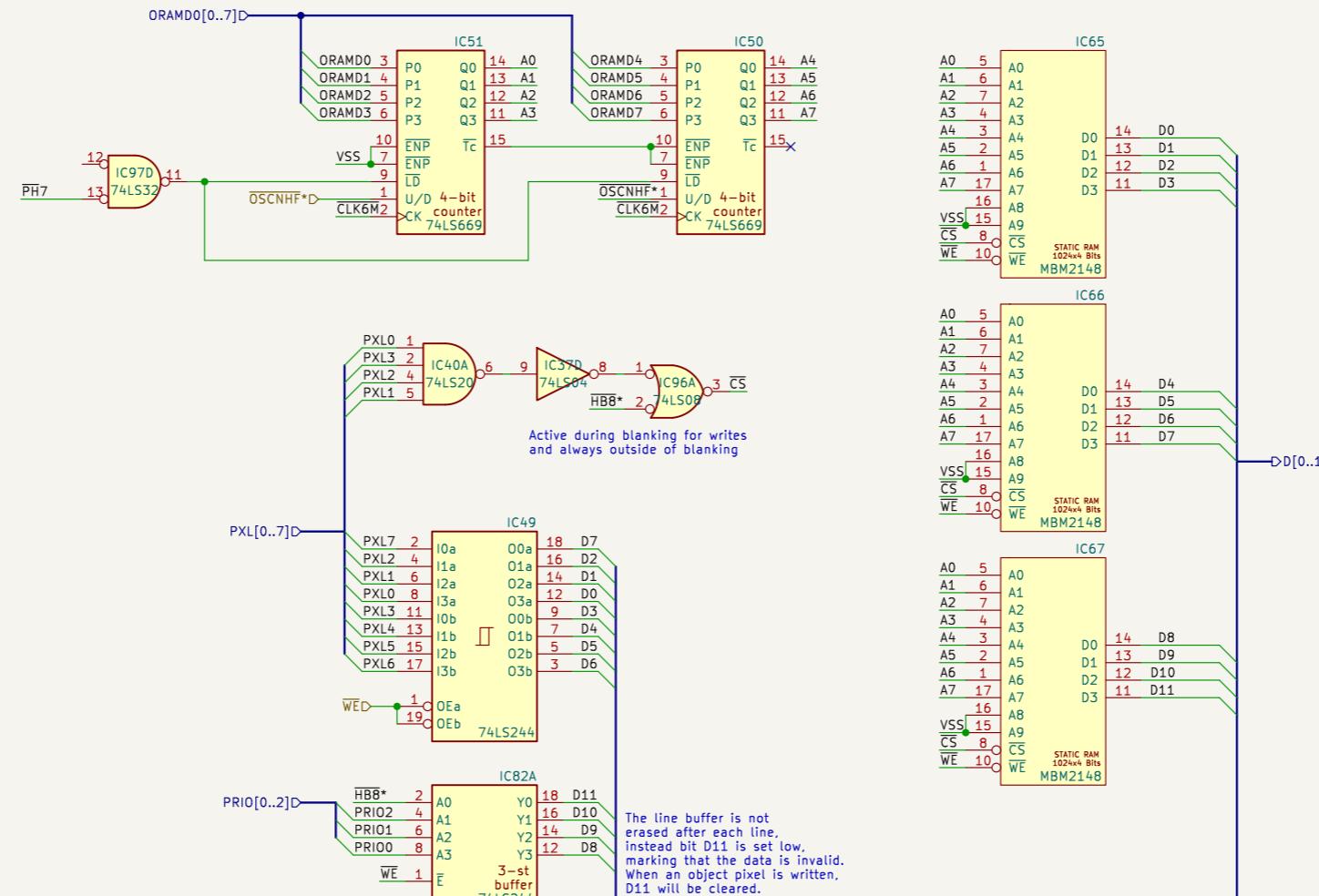
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Title: Object Information

Size: A3 Date: 2024-11-16

KiCad E.D.A. 8.0.6

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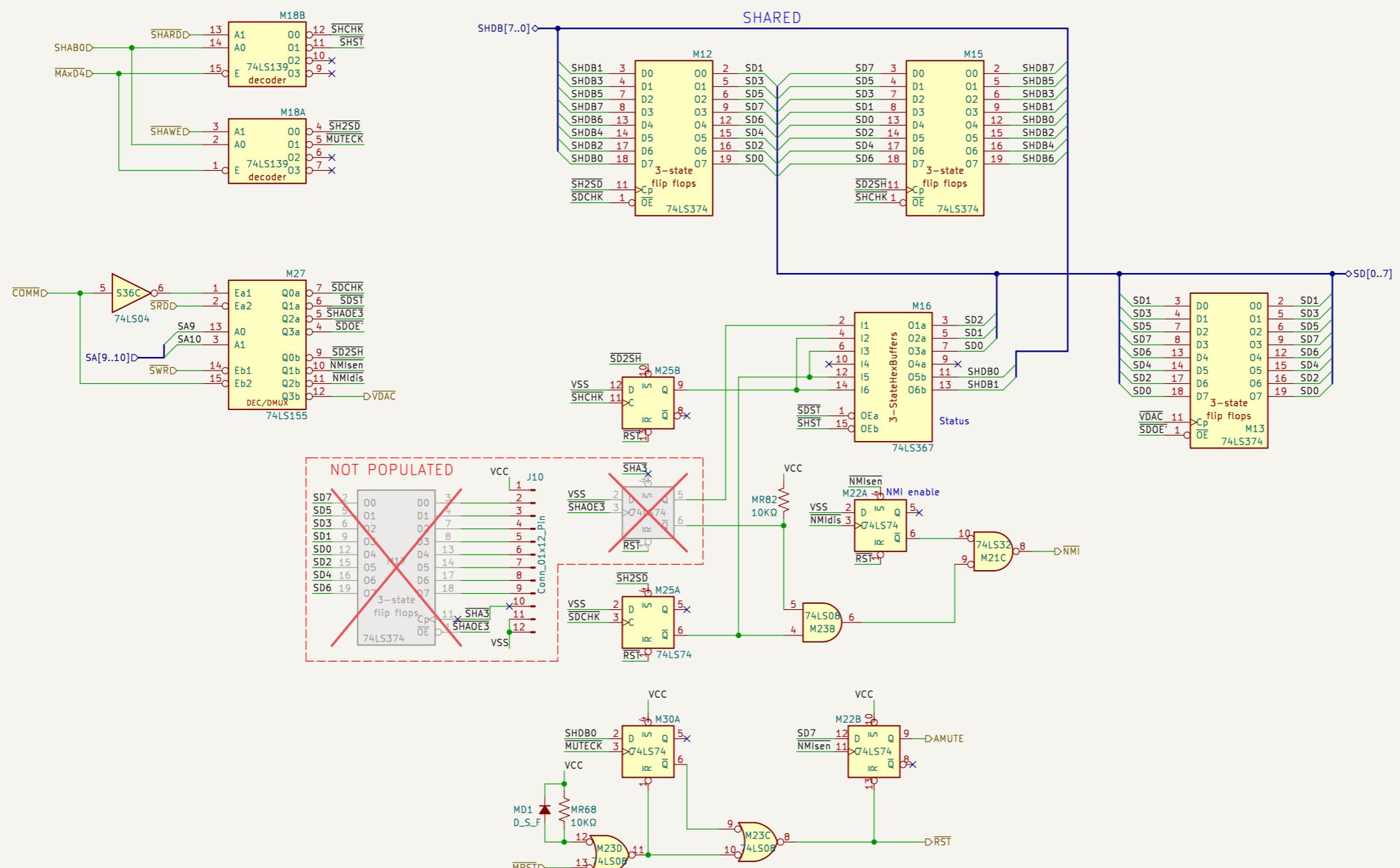


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Sheet: /Video/Line buffer/
File: linebuf.kicad_sch

Title: Single Line Video Buffer

Size: A3	Date: 2024-11-16
KiCad E.D.A. 8.0.6	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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Rev:
Id: 18/20

