

A

A

B

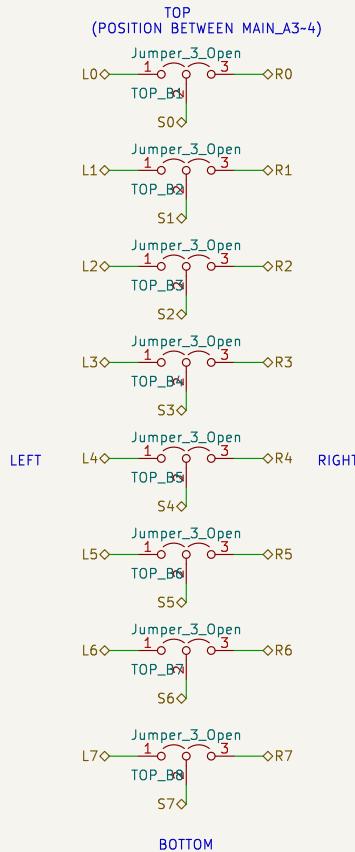
B

C

C

D

D



patreon.com/jotego

JOTEGO

Sheet: /ROM board/scrjumpers/
File: romjp.kicad_sch

Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18

KiCad E.D.A. 8.0.4

Rev: José Tejada

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A

B

C

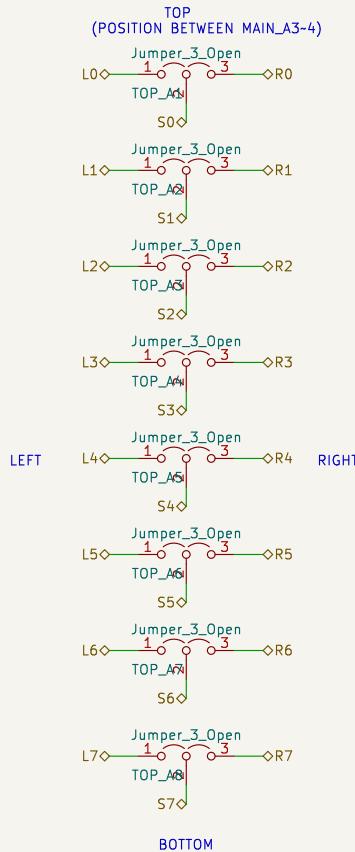
D

A

B

C

D



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JOTEGO

Sheet: /ROM board/sndjumpers/
File: romjp.kicad_sch

Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18

KiCad E.D.A. 8.0.4

Rev: José Tejada

| Id: 4/26

A

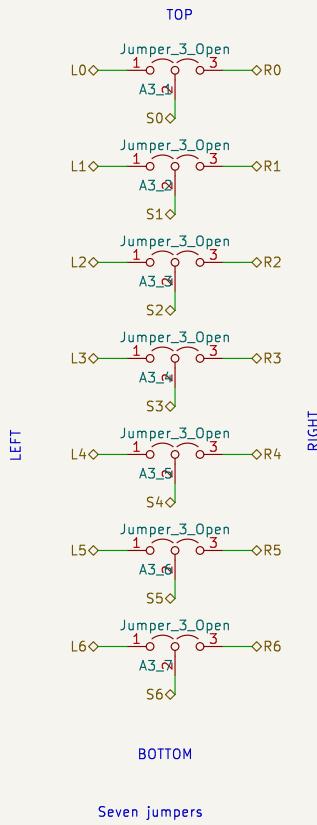
A

B

B

C

C



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JOTEGO

Sheet: /ROM board/objjumpers/
File: romjp7.kicad_sch

Title: SEGA System 18 MODEL 837-7178

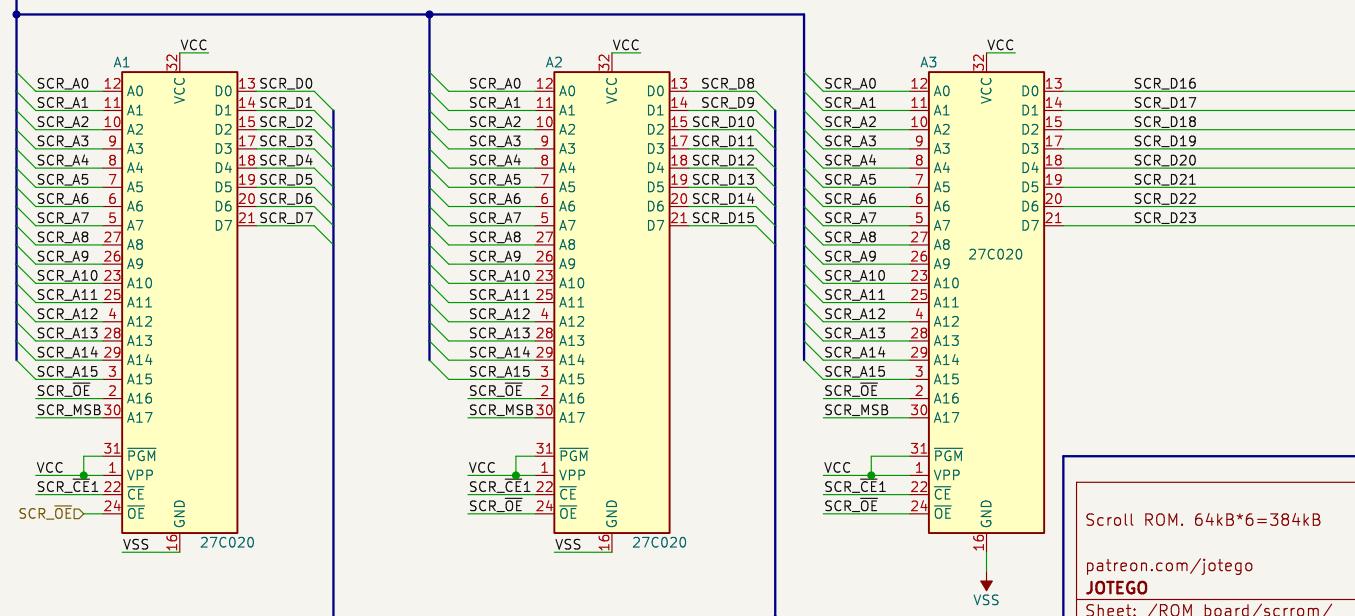
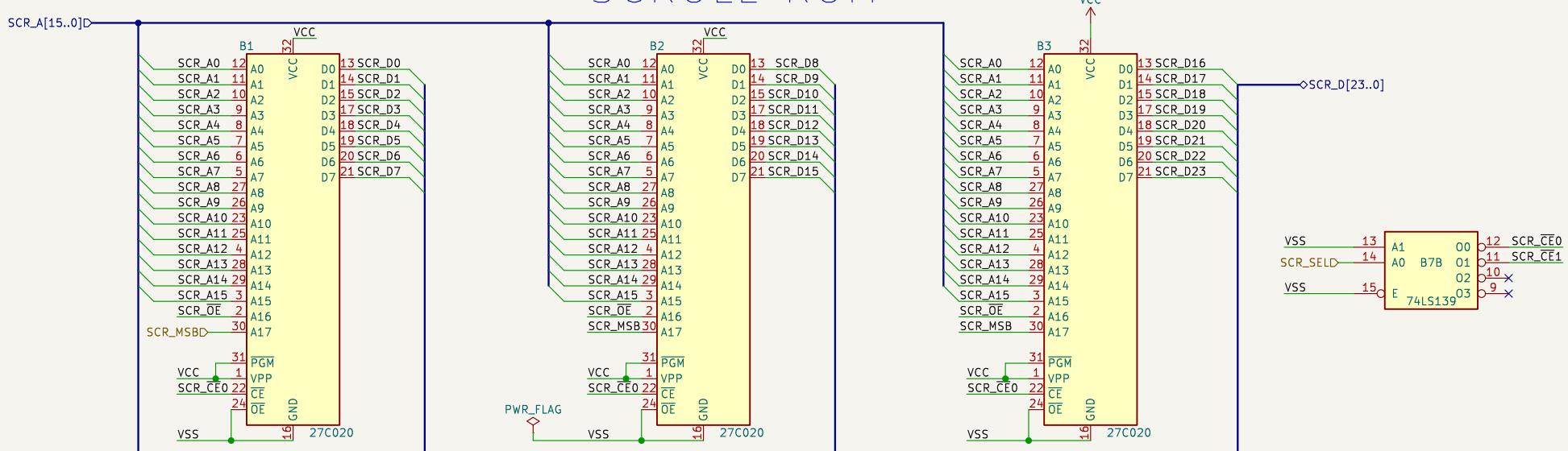
Size: A4 Date: 2022-03-18

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Rev: José Tejada

Id: 5/26

SCROLL ROM



Scroll ROM 64kB*6=384kB

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JOTEGO

Sheet: /ROM board/scrrom/

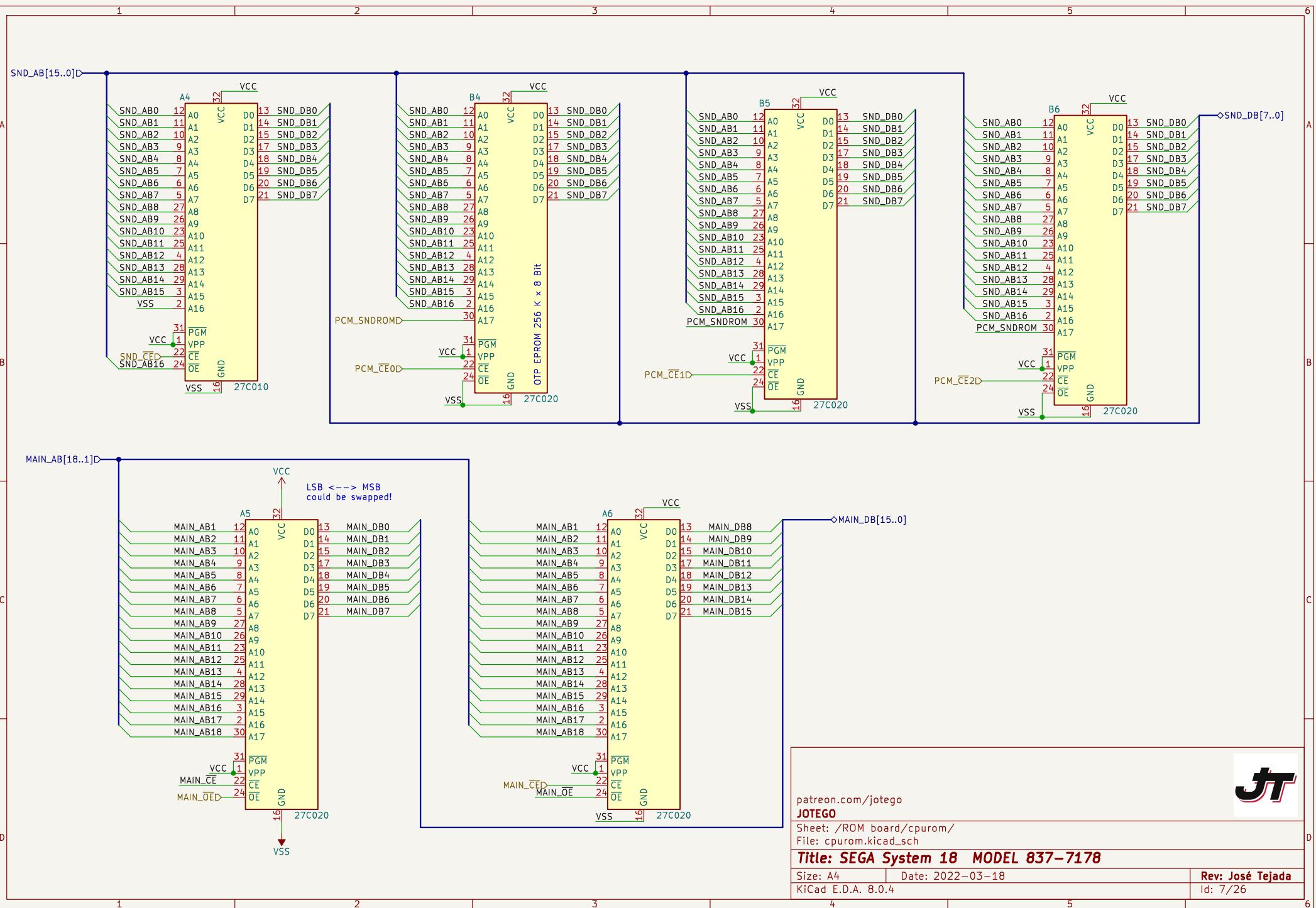
File: scrrom.kica

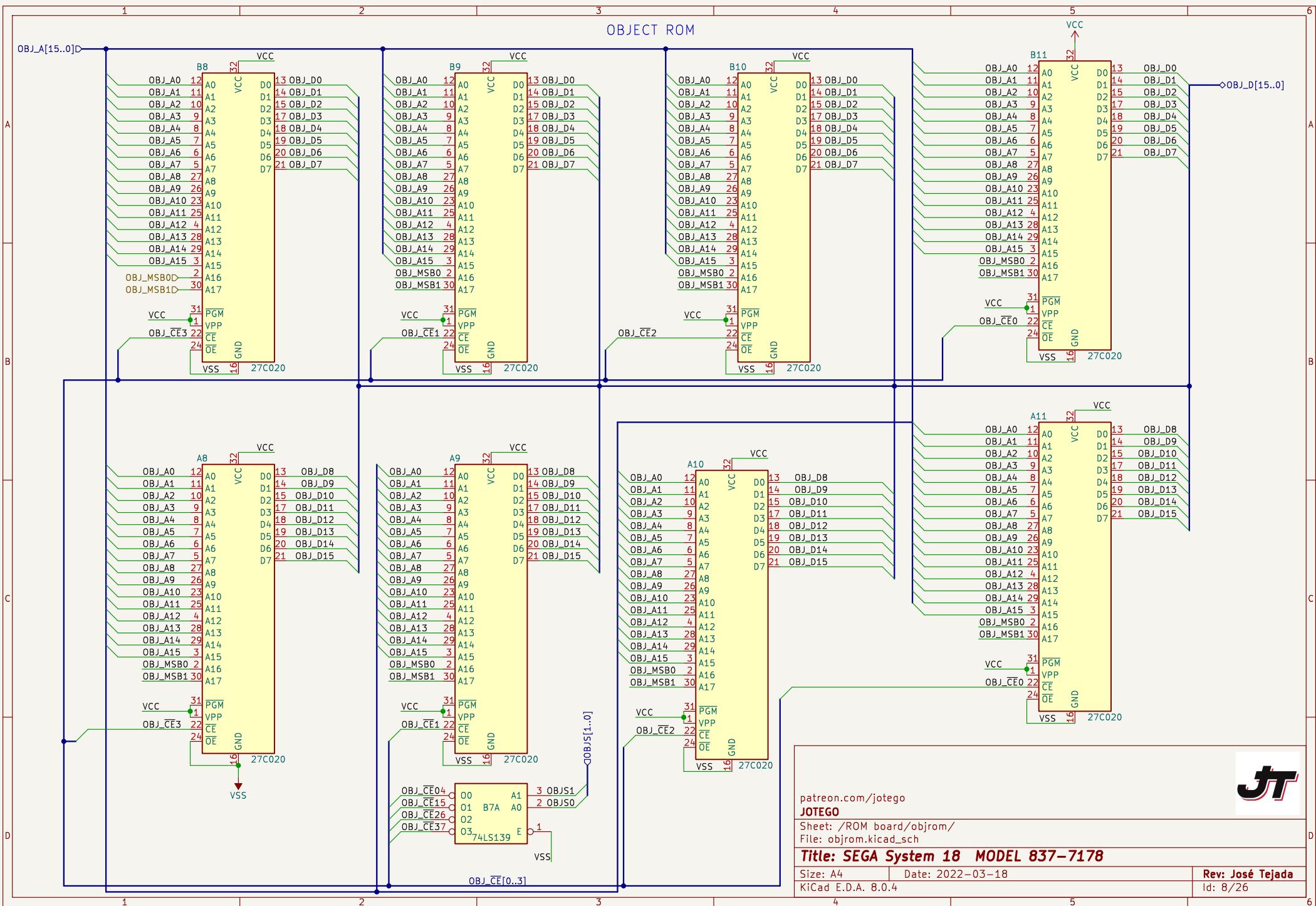
Title: SEGA System 18 MODEL 837-7178

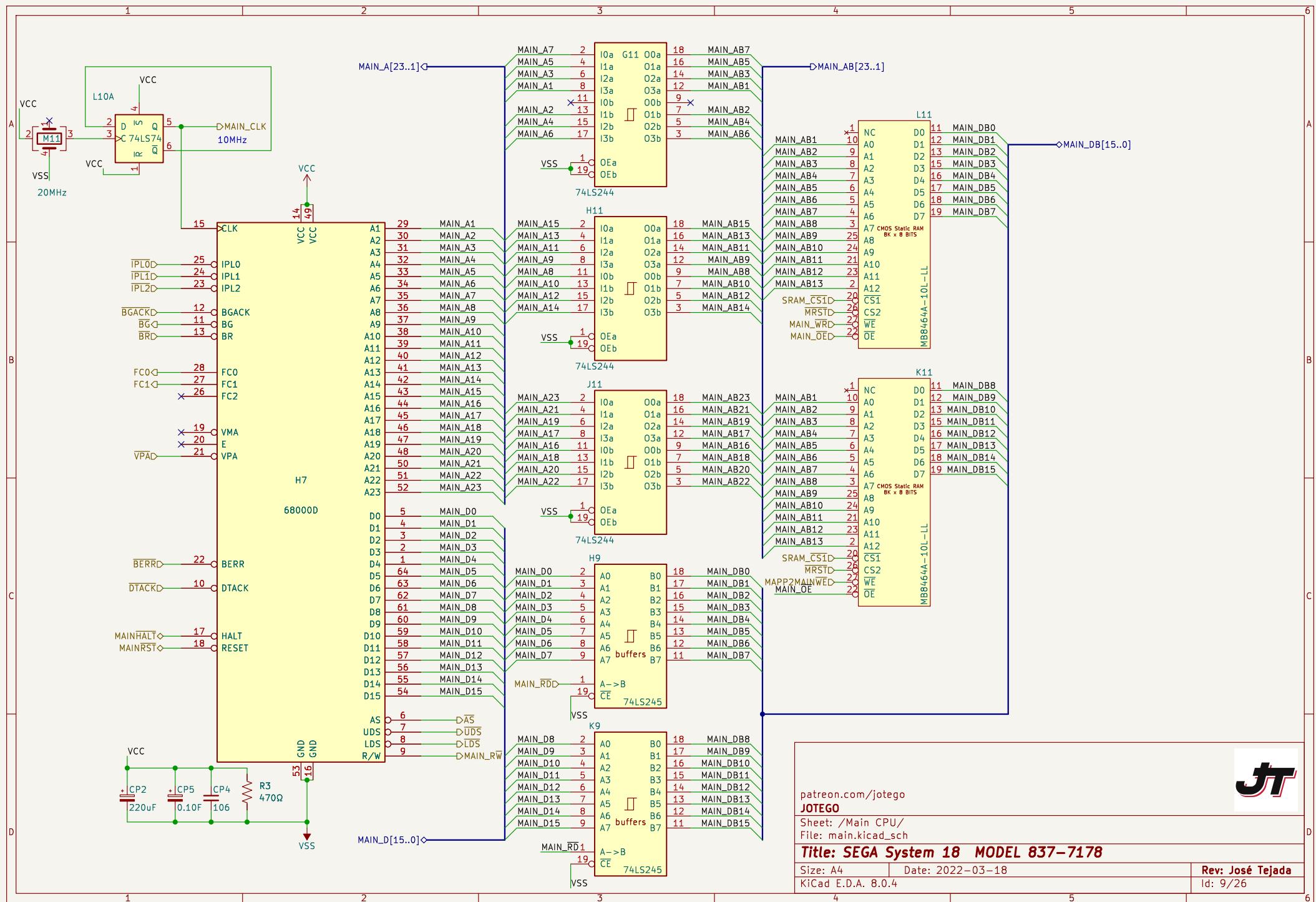
Size: A4 Date: 2022-03-18

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JOTEGO

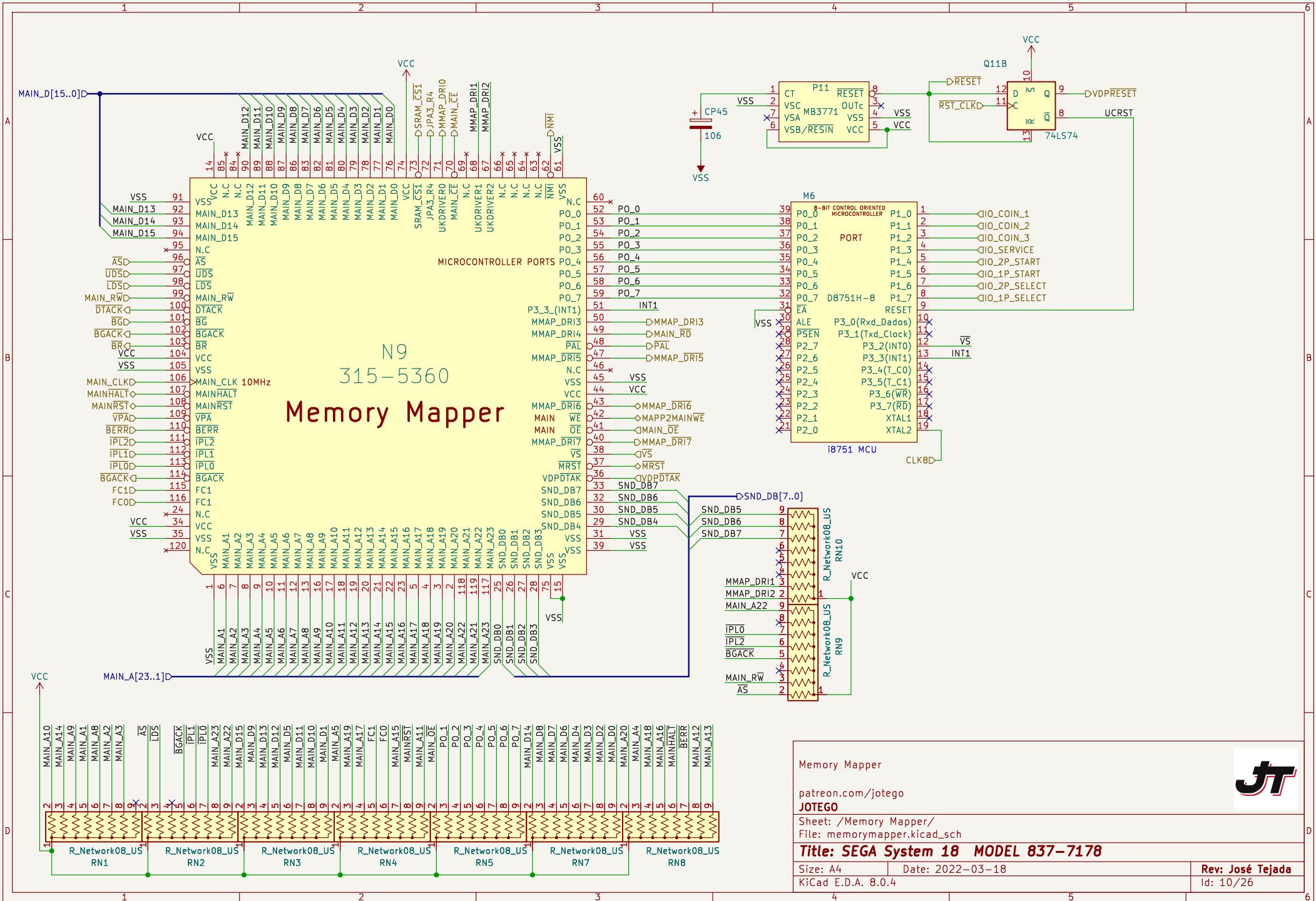
Sheet: /Main CPU/
File: main.kicad_sch

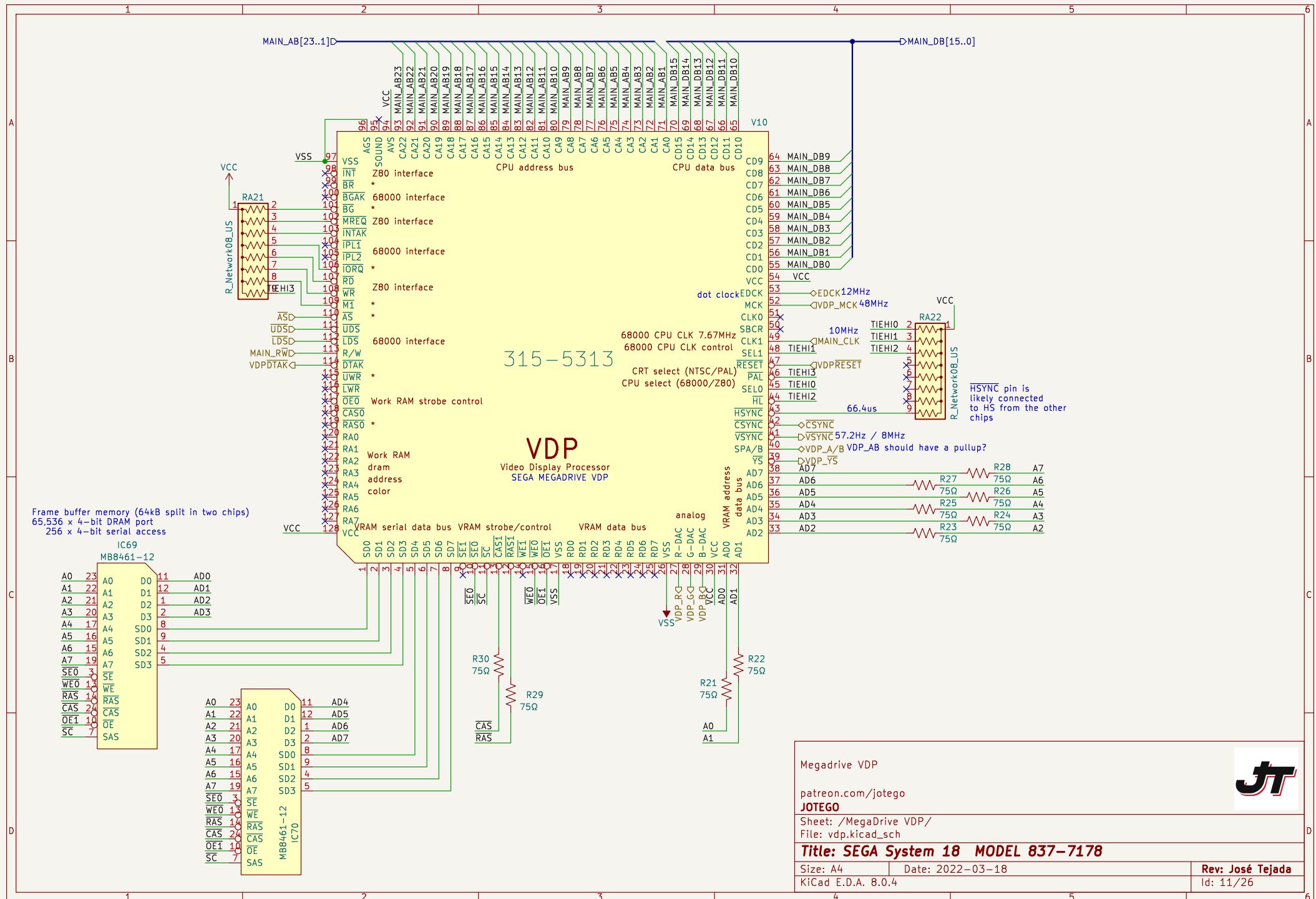
Title: SEGA System 18 MODEL 837-7178

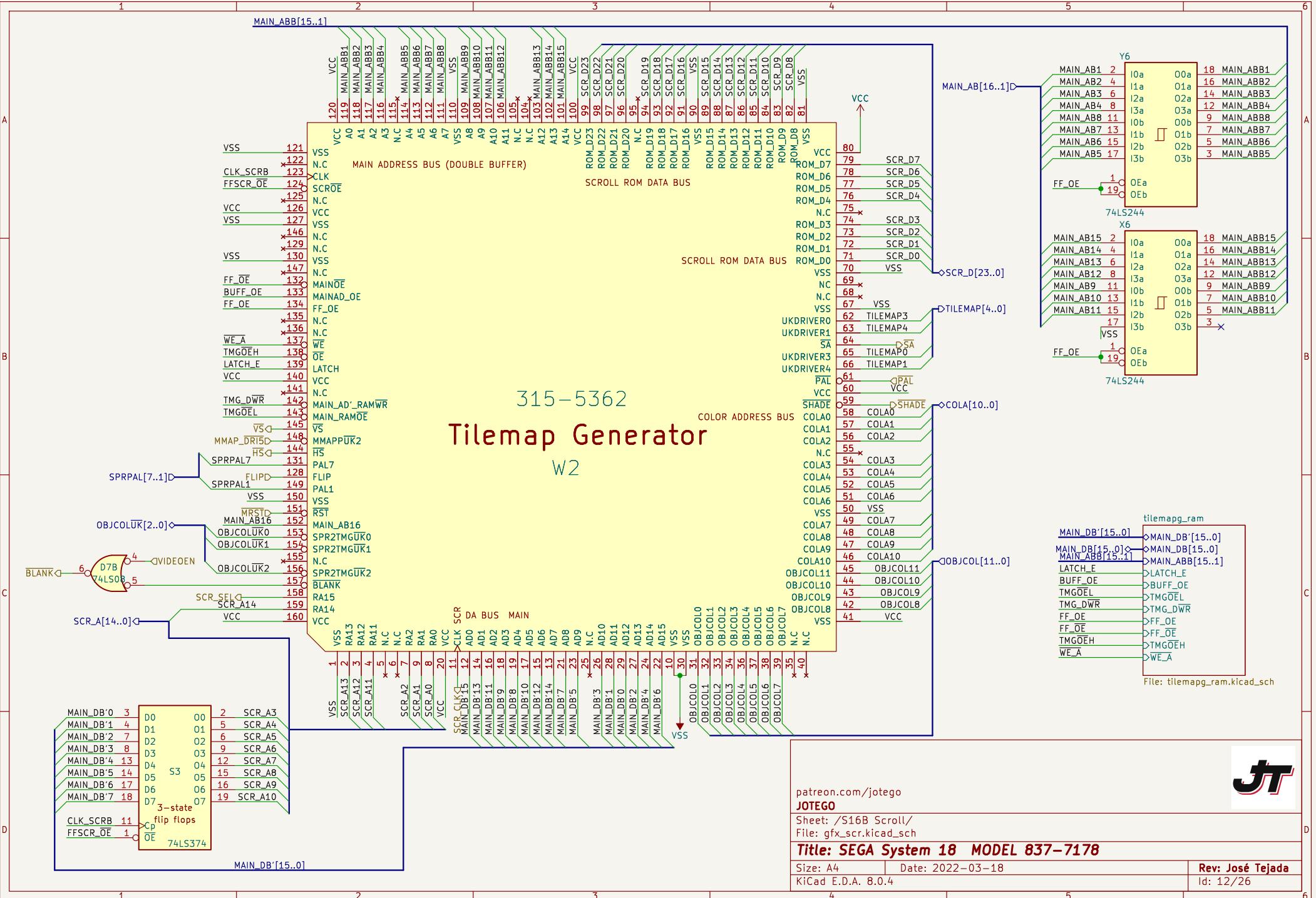
Size: A4 Date: 2022-03-18
KiCad E.D.A. 8.0.4

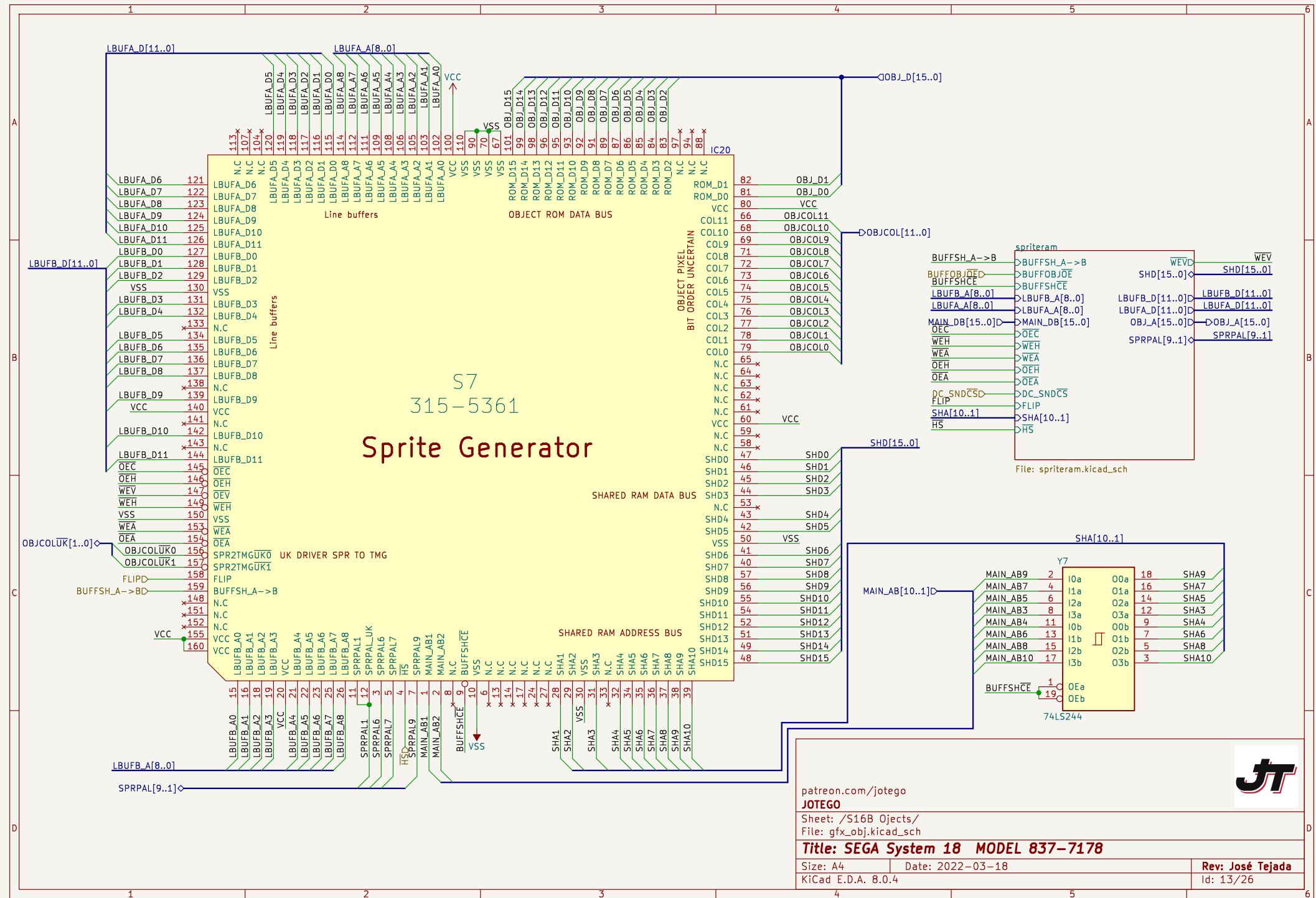


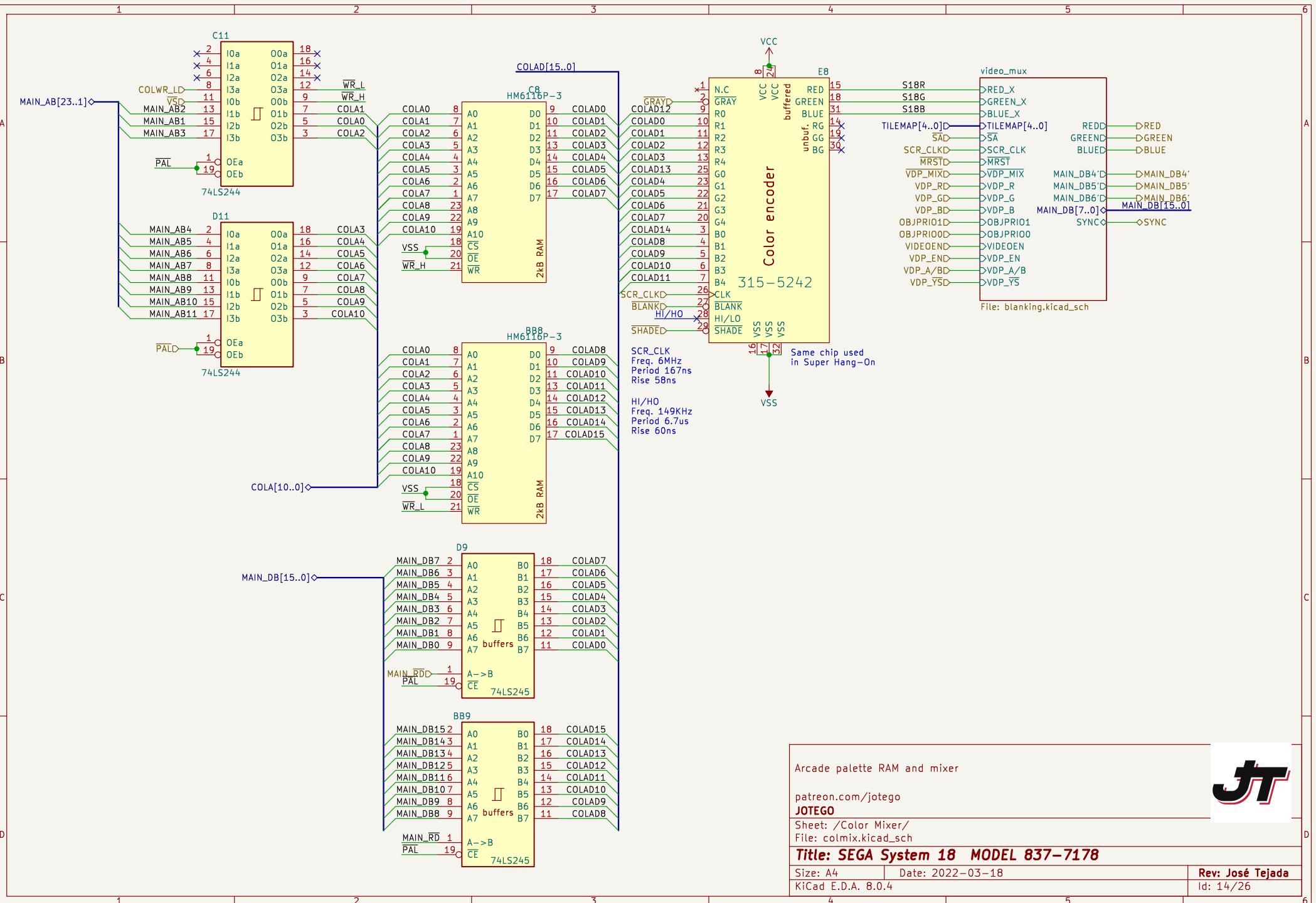
Rev: José Tejada
Id: 9/26

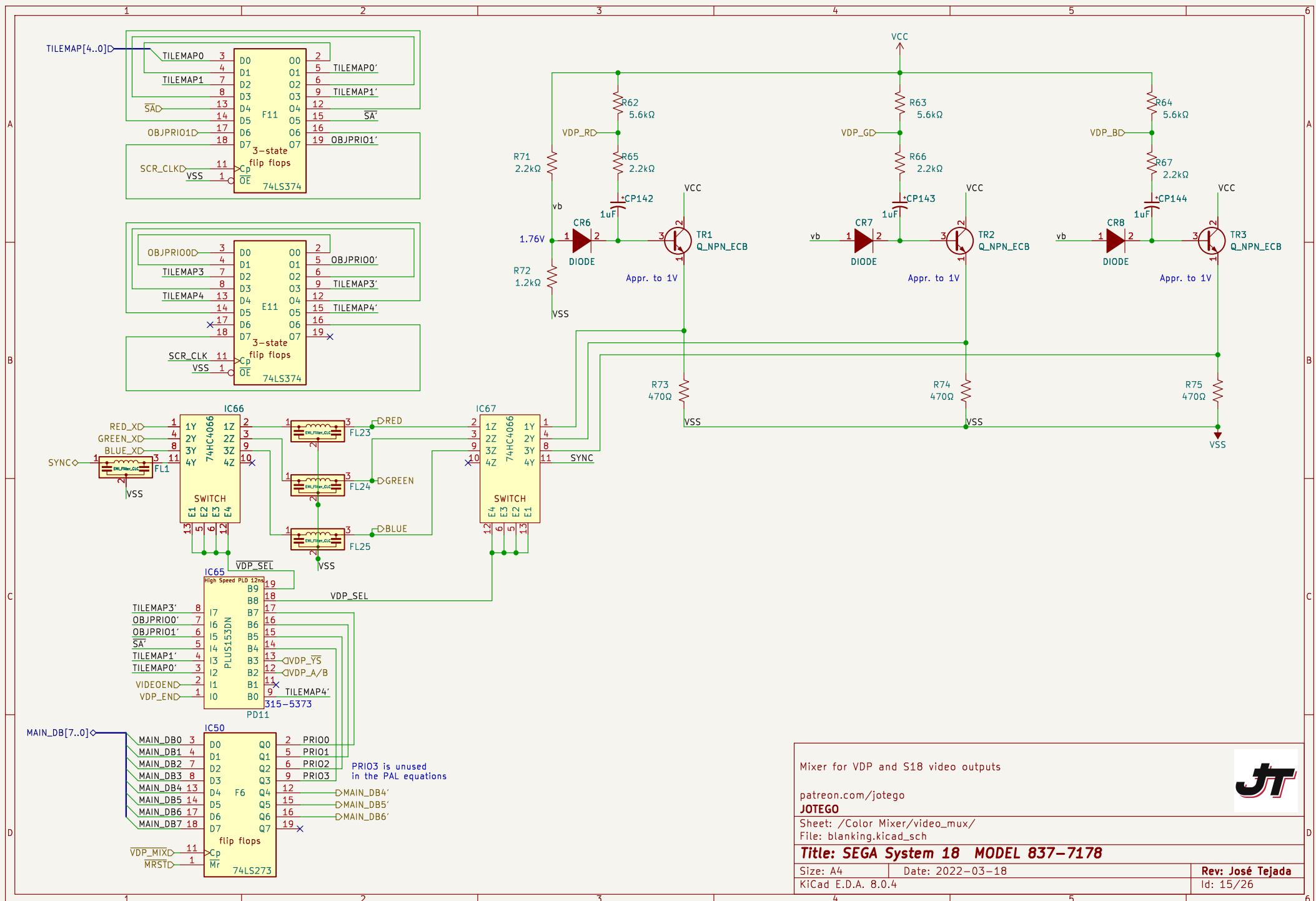












Mixer for VDP and S18 video outputs

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JOTEGO

Sheet: /Color Mixer/video_mux/
File: blanking.kicad_sch

Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18

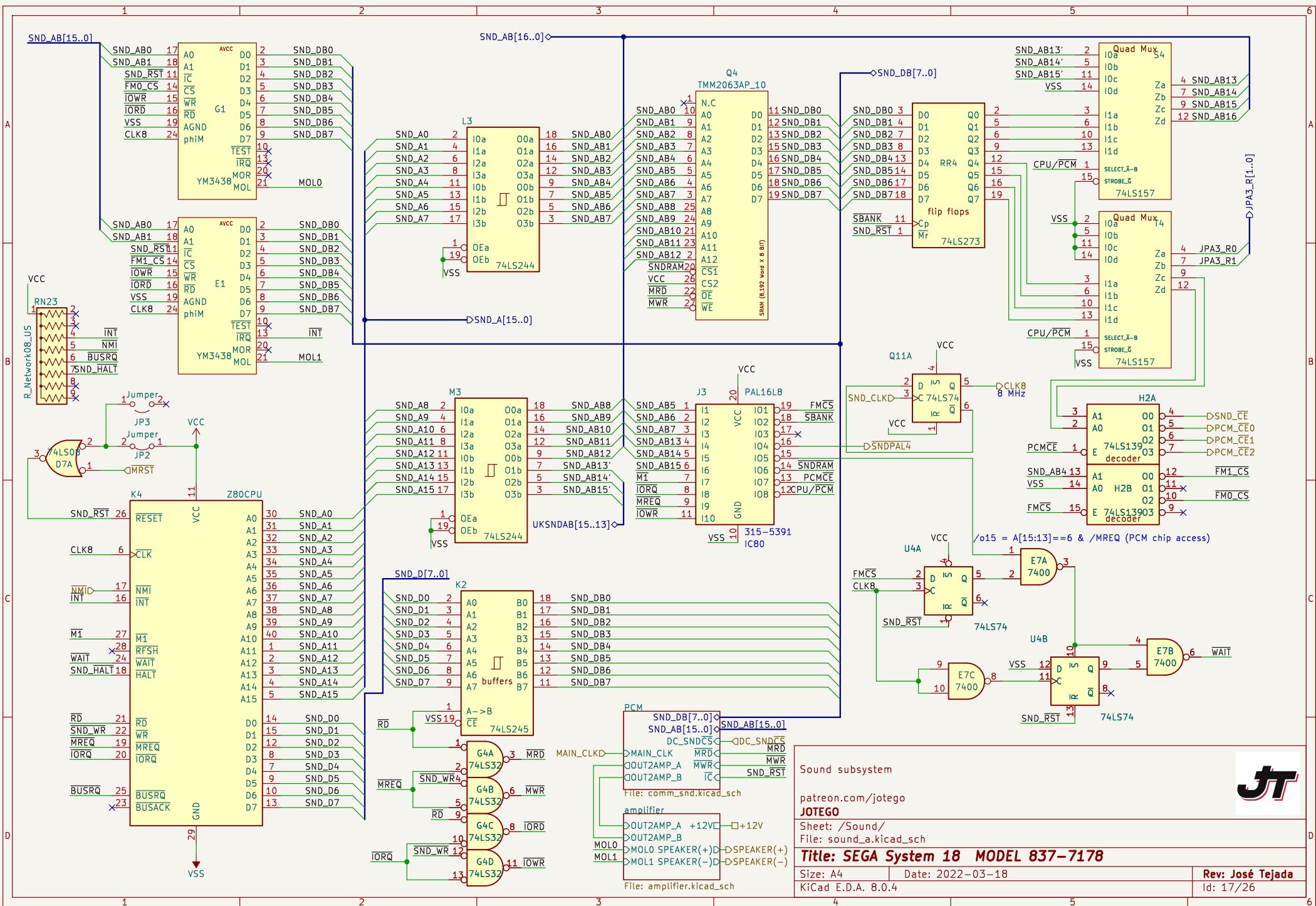
KiCad E.D.A. 8.0.4

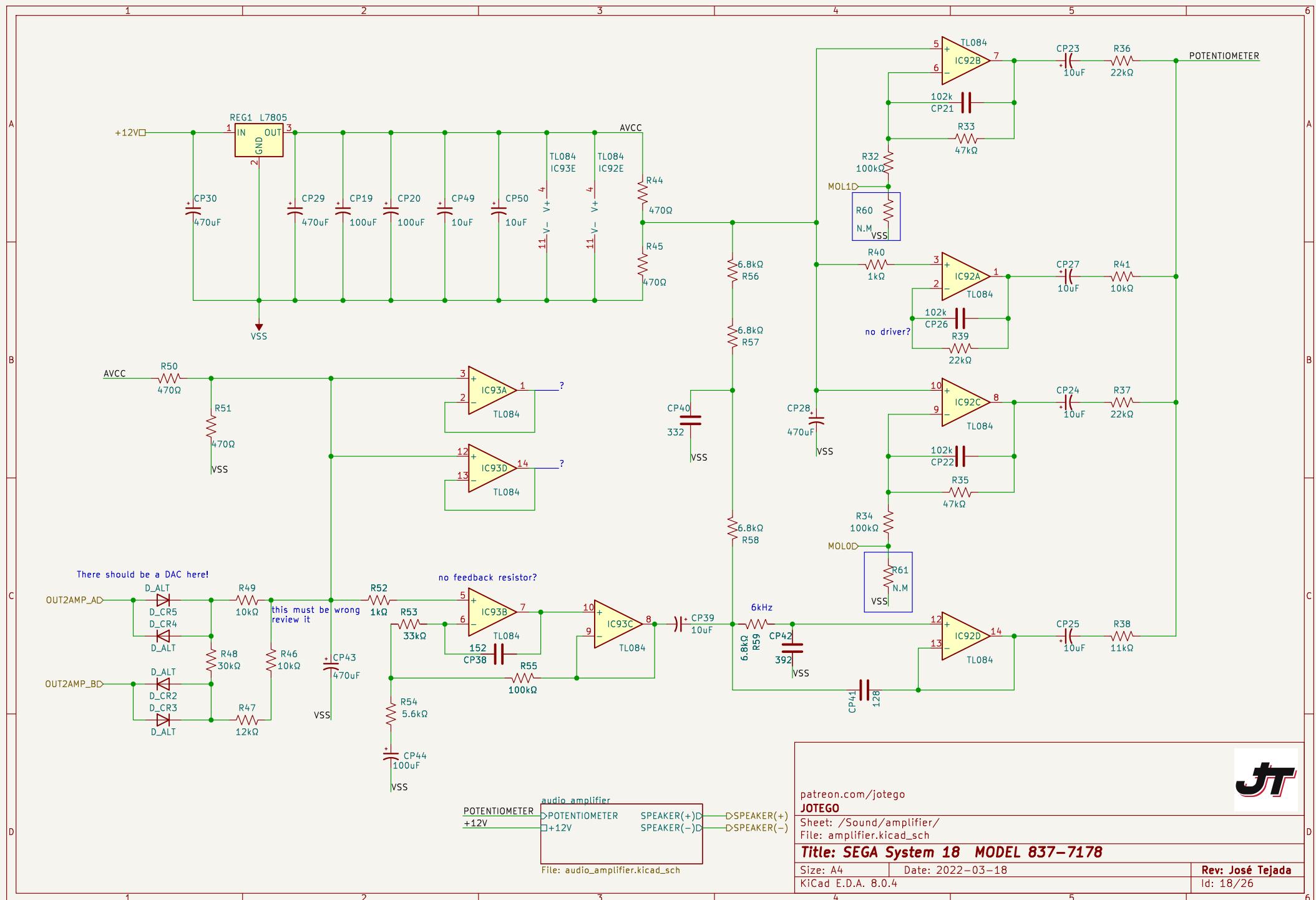


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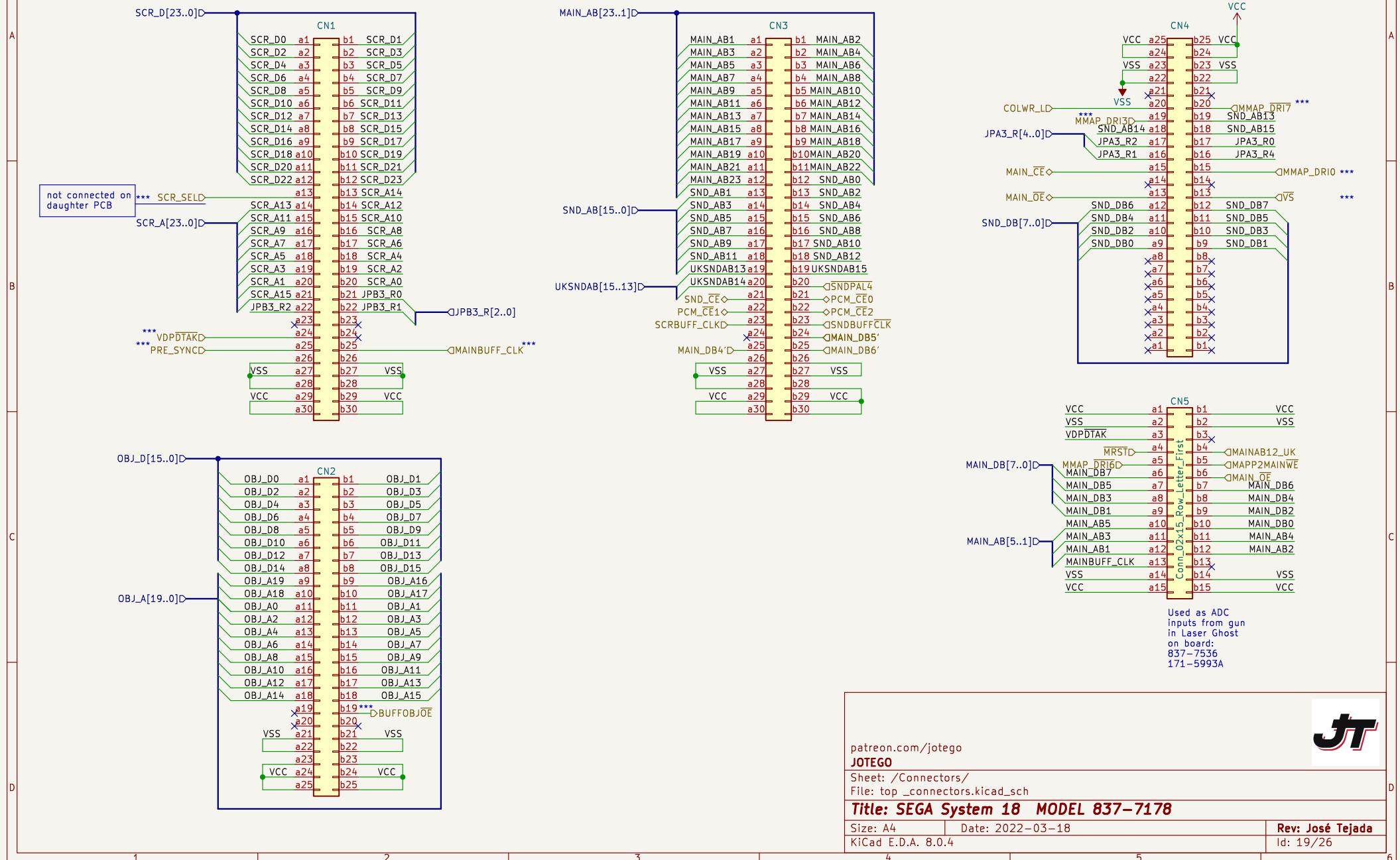
Id: 15/26

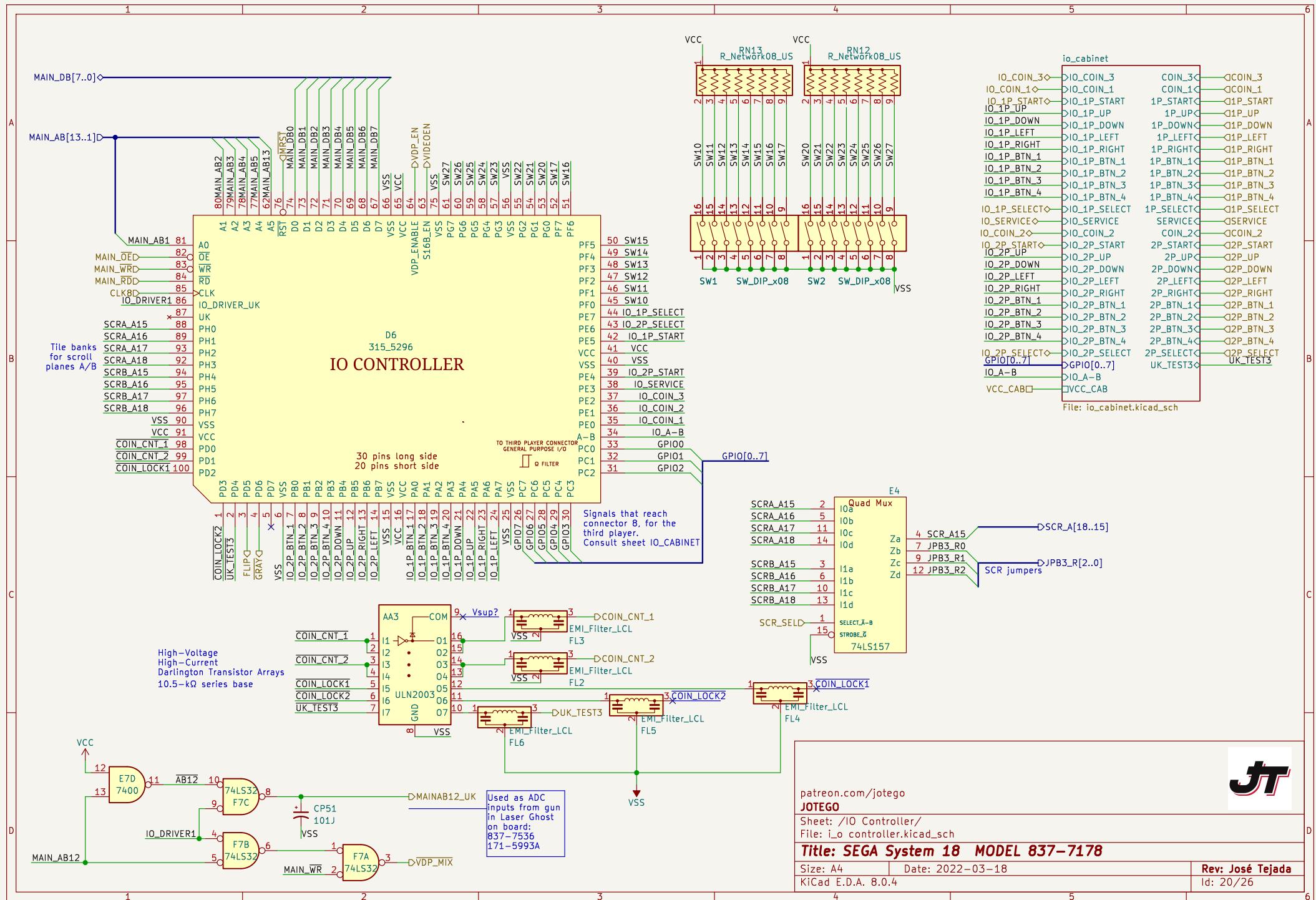


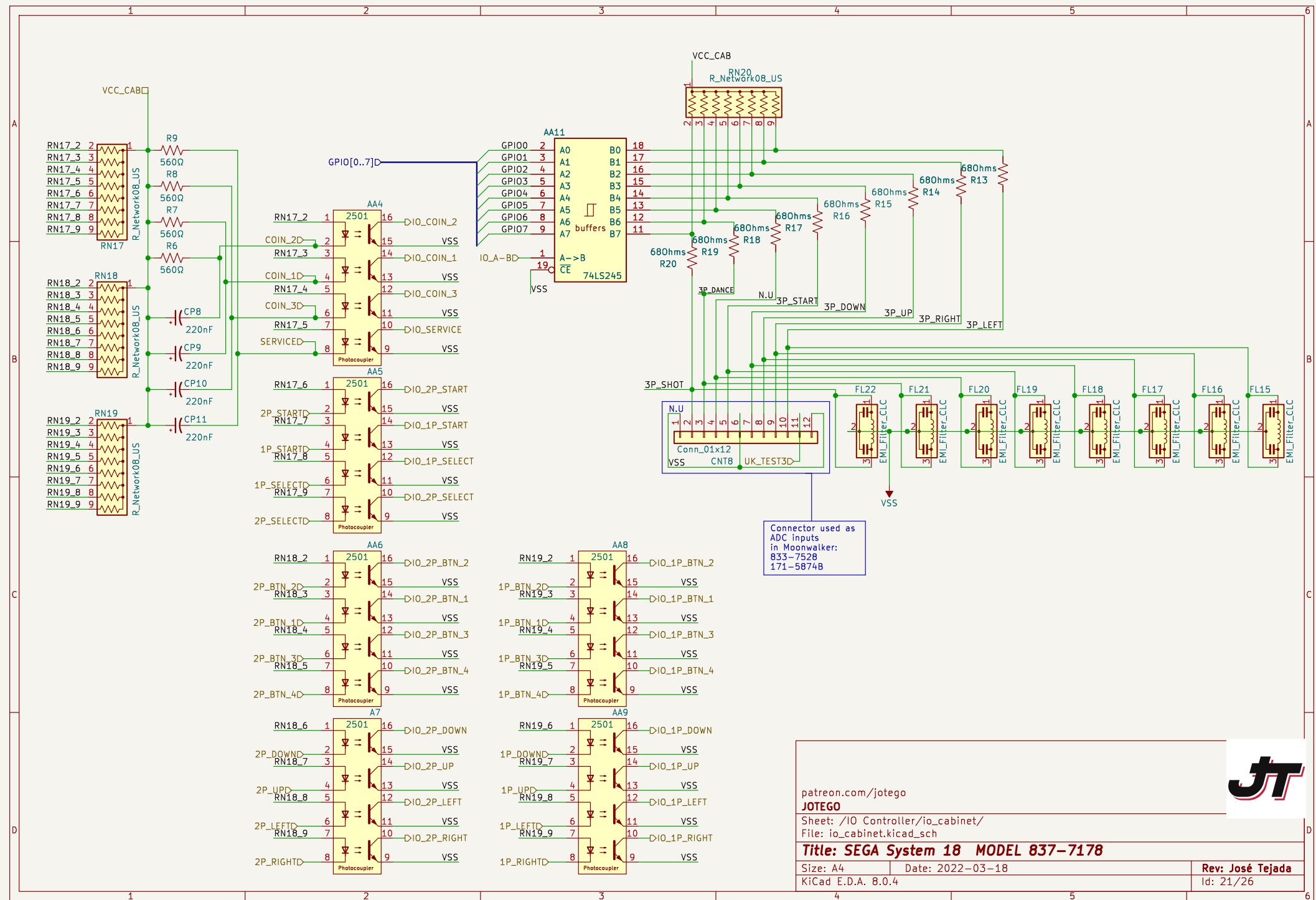


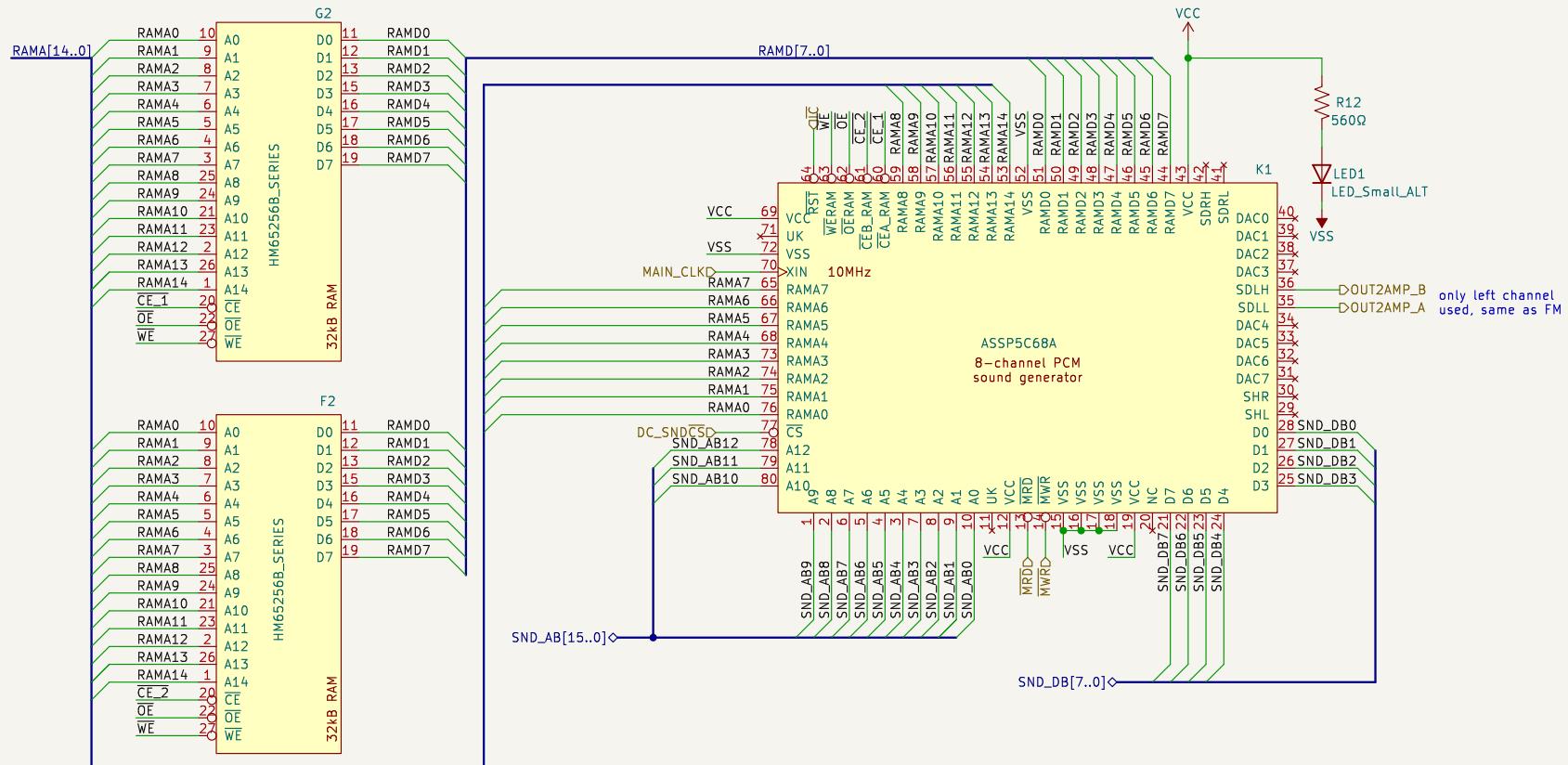


MOTHER AND DAUGHTER PCB CONNECTORS









PCM sound generator

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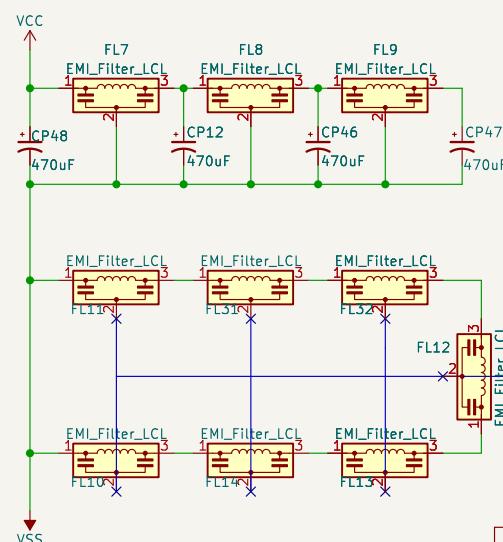
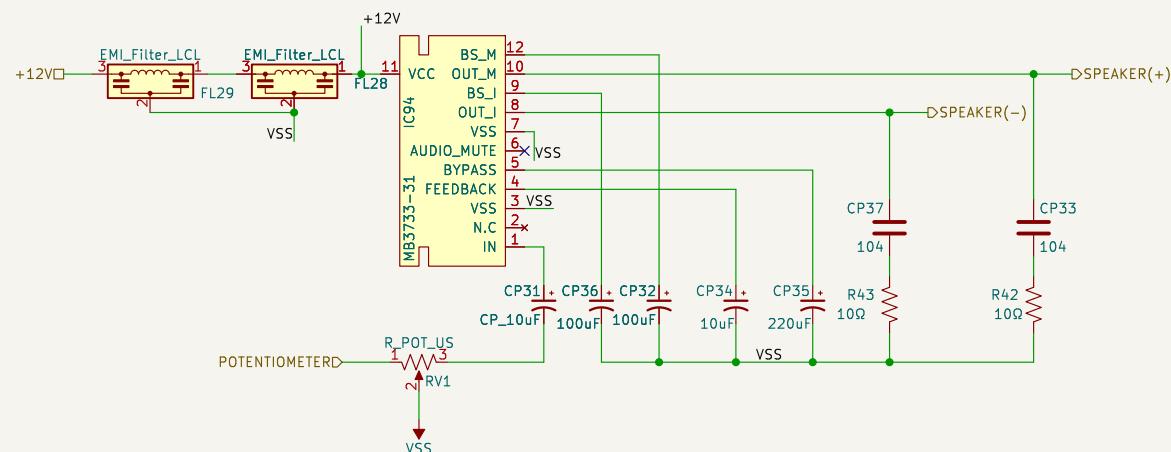
JOTEGO

Sheet: /Sound/PCM/
File: comm_snd.kicad_sch

Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18

KiCad E.D.A. 8.0.4



Leaded EMIFI
Three-terminal Capacitor type
DSS6NE52A222p
2200pF 80/-20%
100Vdc 6A -25 to +85°C

A kind of a track is observed between the two PCB layers, as if it were another layer, but there is no certainty about that. The track seems to be used to delimit or isolate the EMI (ElectroMagnetic Interference) filters. They may have wanted to isolate the noise between digital and analog devices.

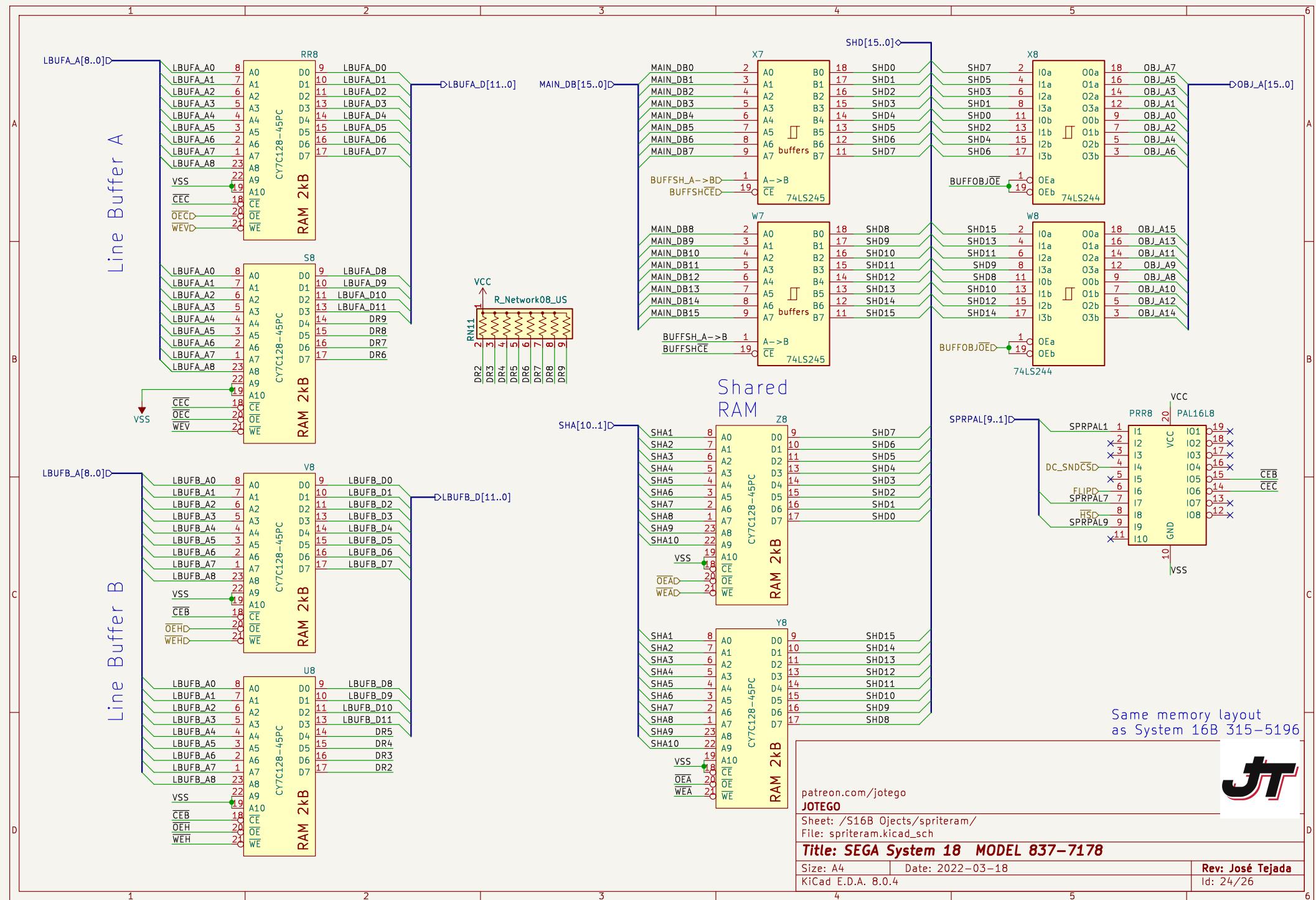
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JOTEGO

Sheet: /Sound/amplifier/audio_amplifier/
File: audio_amplifier.kicad_sch

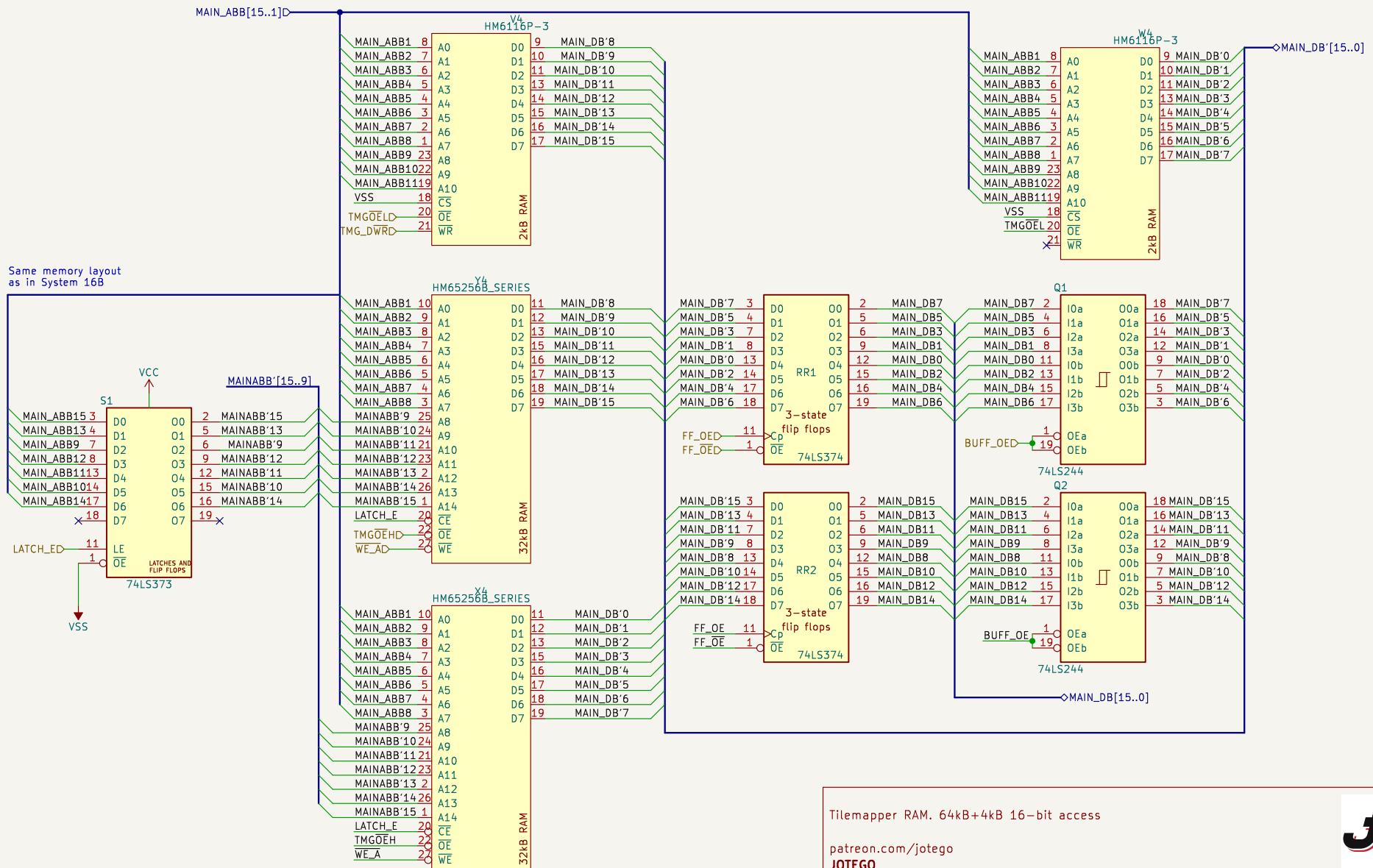
Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18





1 2 3 4 5 6



Tilemapper RAM. 64kB+4kB 16-bit access

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JOTEGO

Sheet: /S16B_Scroll/tilemapg_ram/
File: tilemapg_ram.kicad_sch

Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18

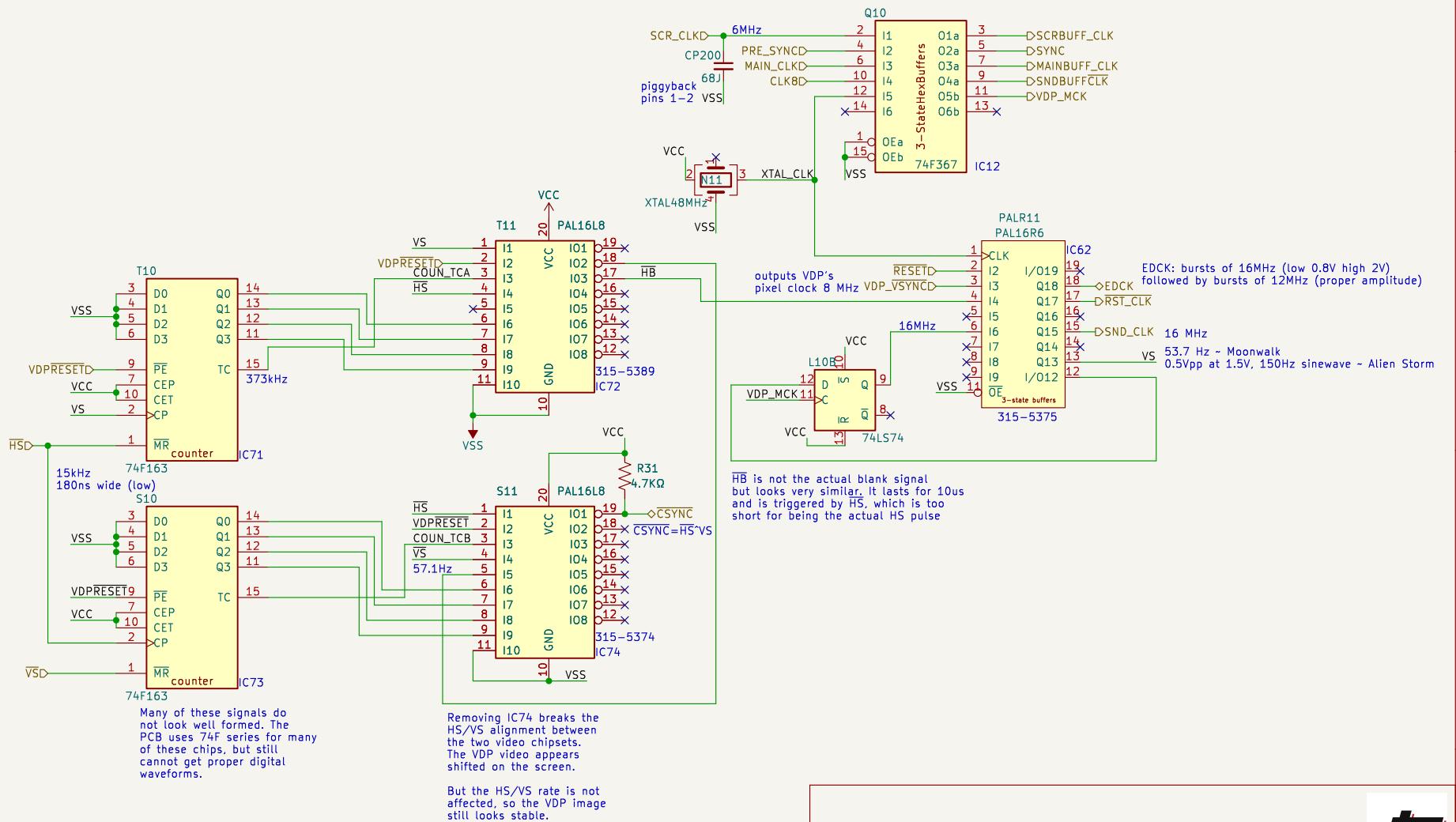
KiCad E.D.A. 8.0.4



Rev: José Tejada

Id: 25/26

1 2 3 4 5 6



VDP pixel clock and csync generation
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JOTEGO

Sheet: /Video Sync/
File: buffers.kicad_sch

Title: SEGA System 18 MODEL 837-7178

Size: A4 Date: 2022-03-18
KiCad E.D.A. 8.0.4



Rev: José Tejada
Id: 26/26