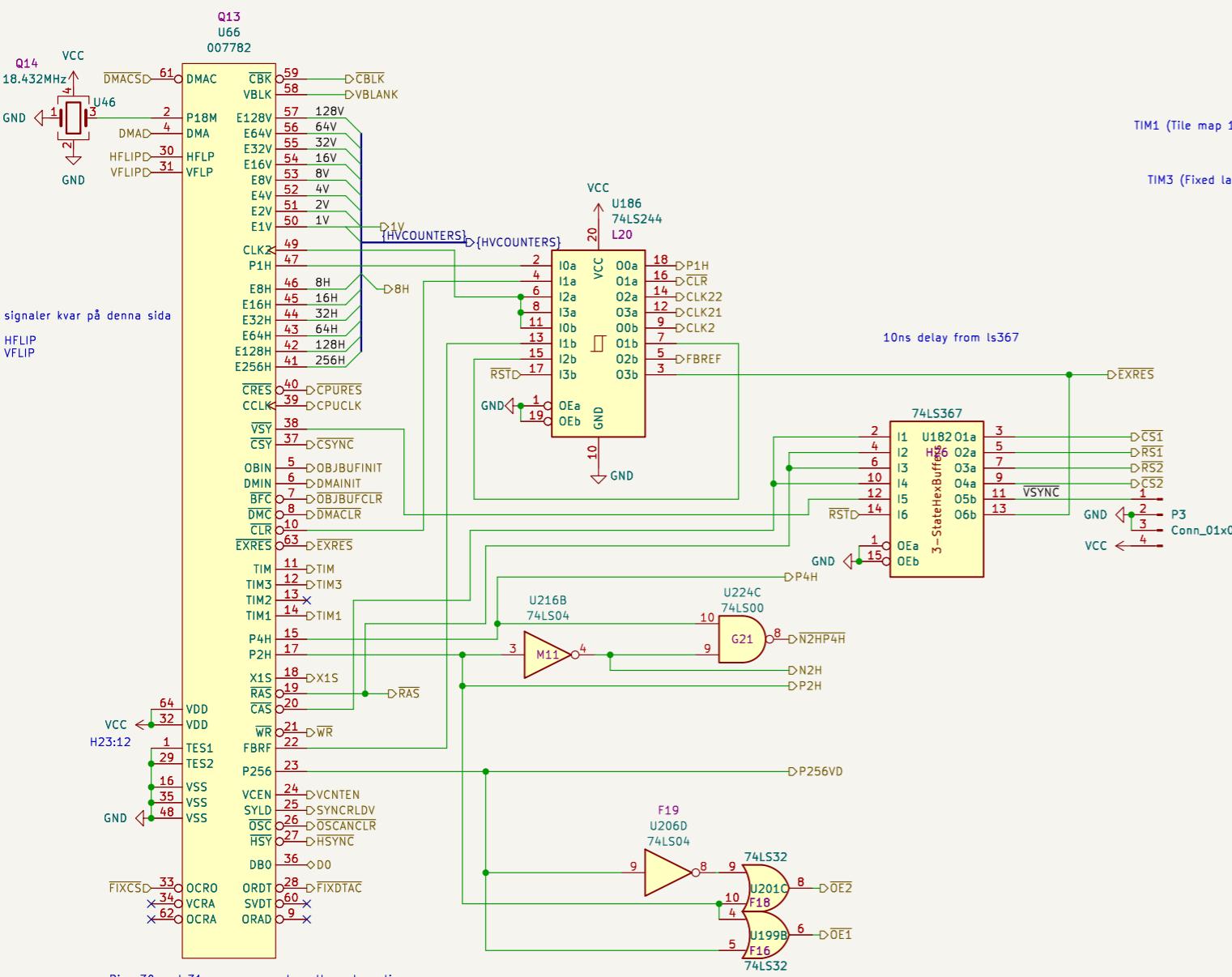
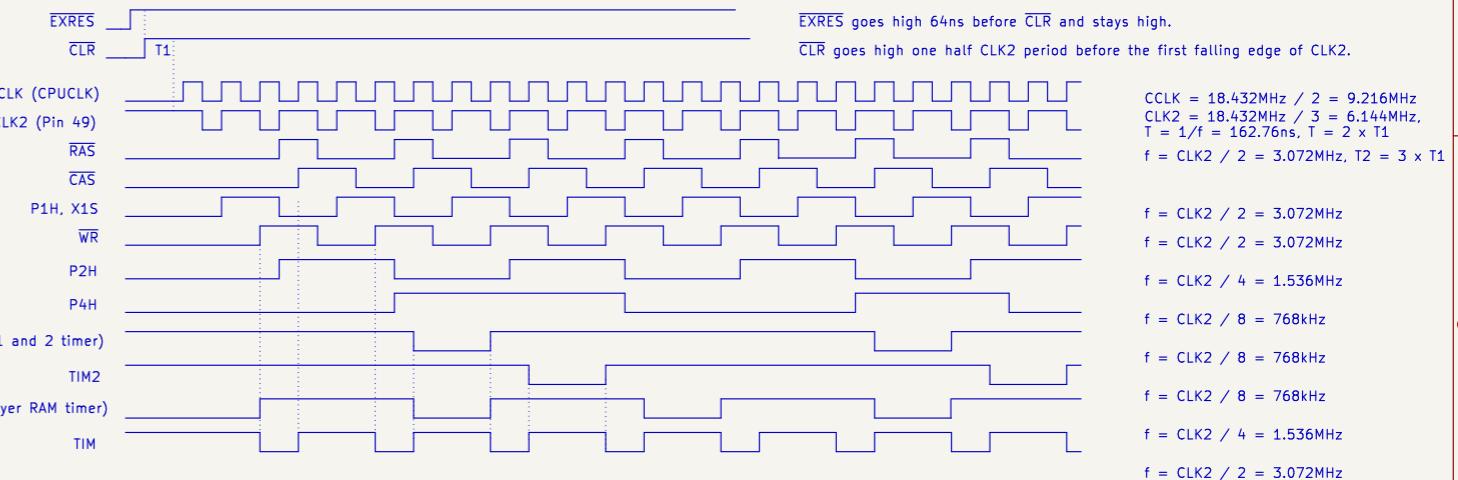
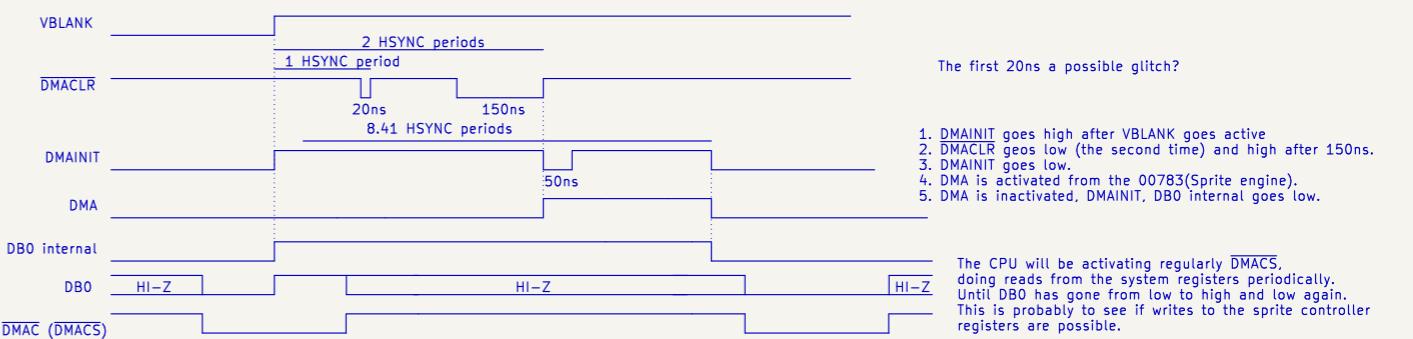
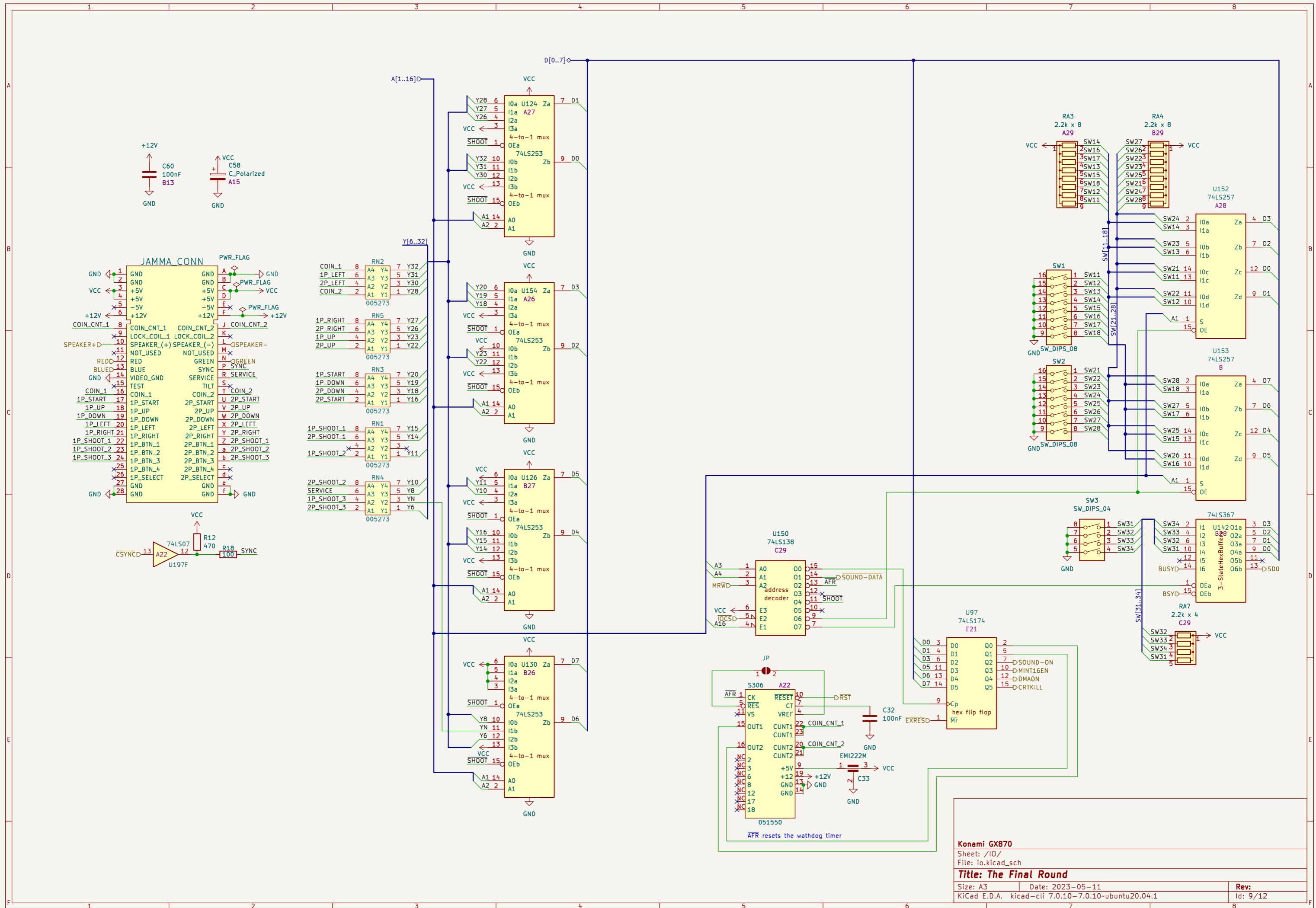
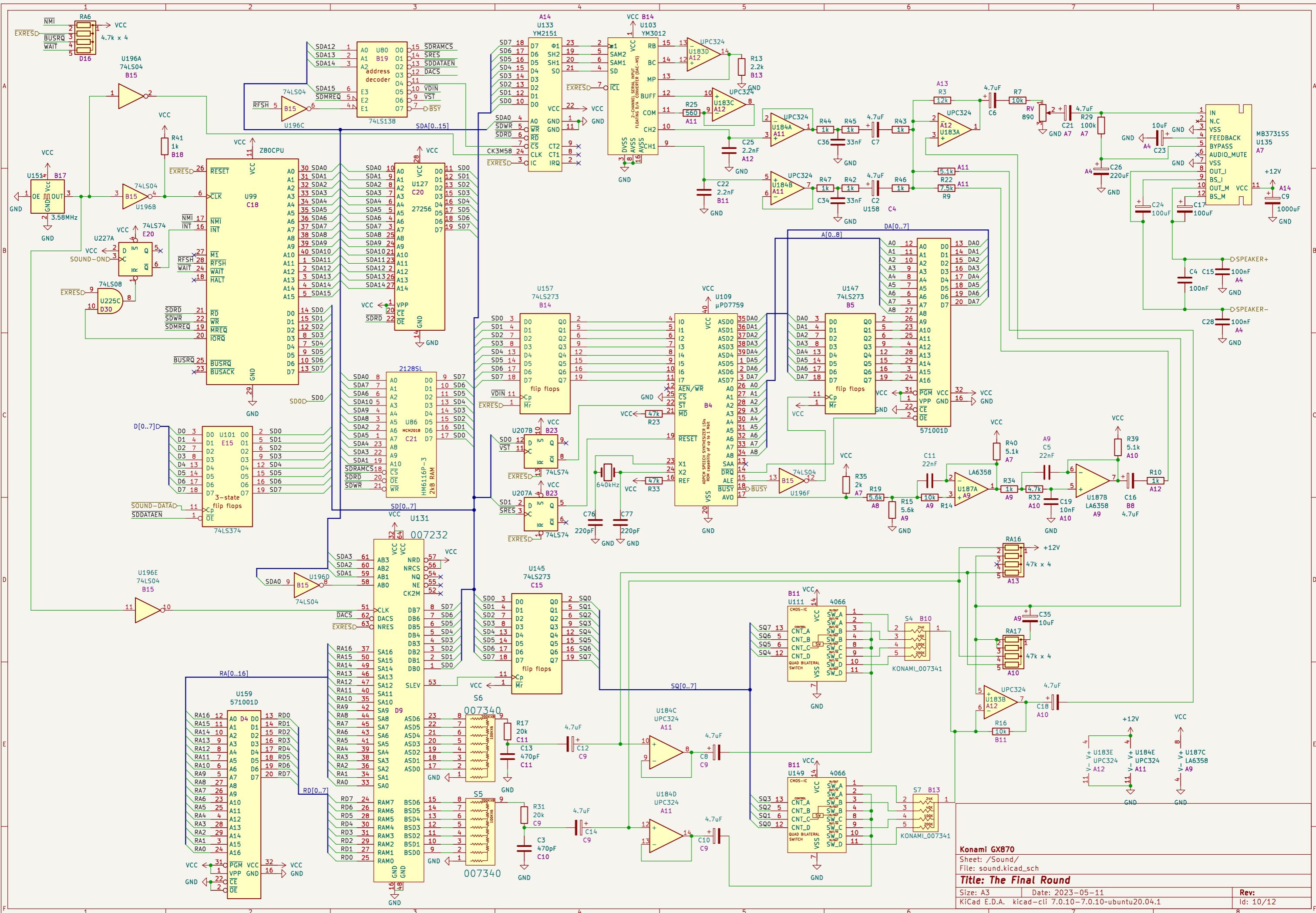


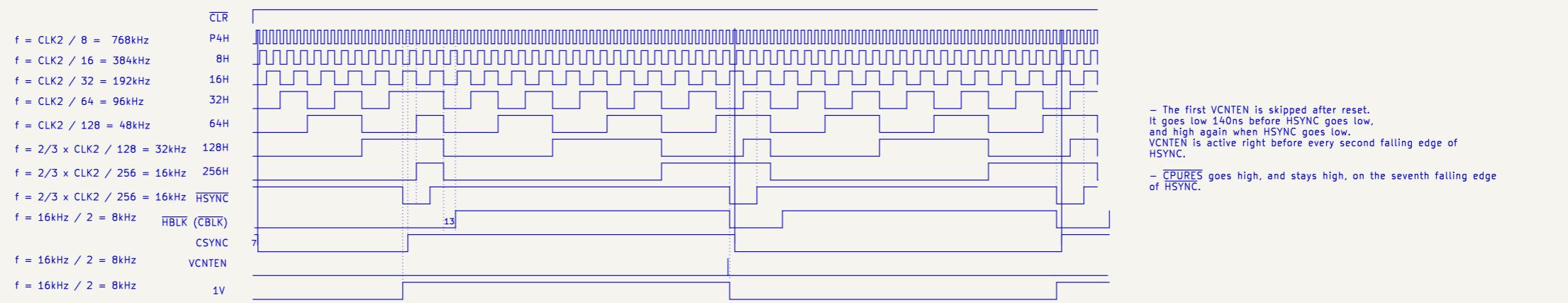
DMA Synchronization





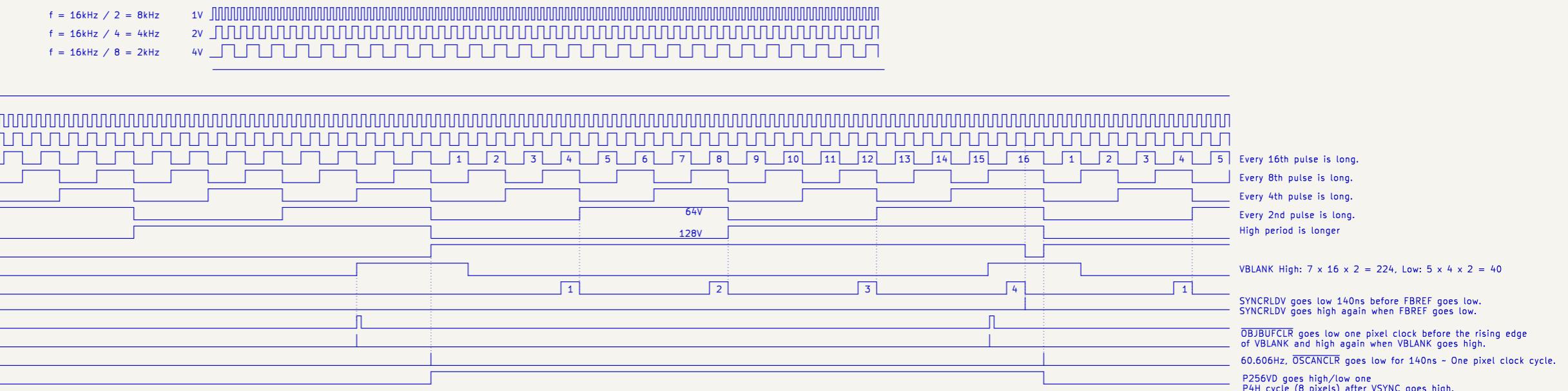


Horizontal signals

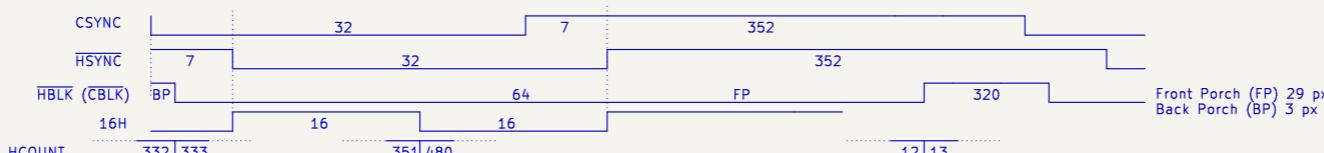
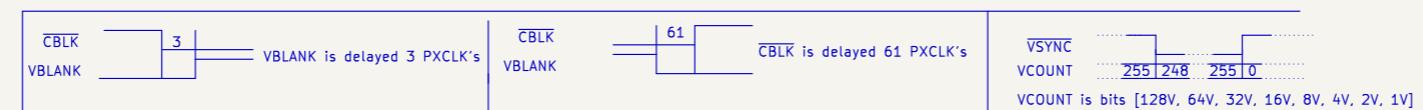


The first HSYNC is at HCOUNT 175 after reset.

Vertical signals



FBREF is measured at pin 22. At U186:3 FBREF is delayed by 22ns going high and 12ns going low.



The horizontal blanking part is shown of the composite blanking signals.

HCOUNT is bits [256H, 128H, 64H, 32H, 16H, 8H, P4H, P2H, P1H]

HSYNC = $6.144\text{MHz} / 384 = 16\text{kHz}$

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Sheet: /Timing diagrams/
File: timing_diagrams.kicad_sch

Title: The Final Round

Size: A3 Date: 2023-05-11
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu20.04.1

Rev: Id: 11/12

A

A

B

B

C

C

D

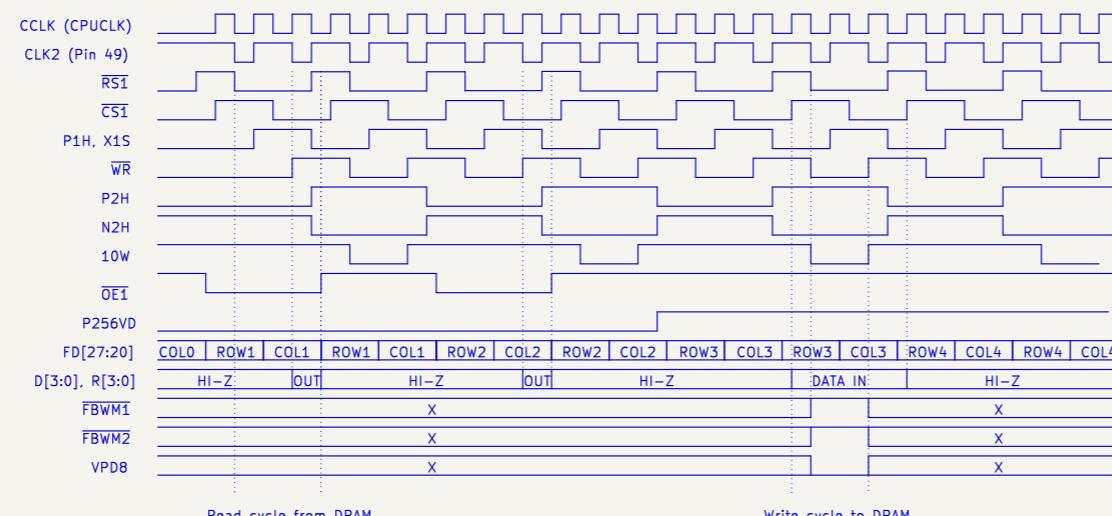
D

E

E

F

F

**Konami GX870**

Sheet: /Sprite timing diagrams/
File: sprite_timing_diagrams.kicad_sch

Title: The Final Round

Size: A3	Date: 2023-05-11
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu20.04.1	Rev: 12/12