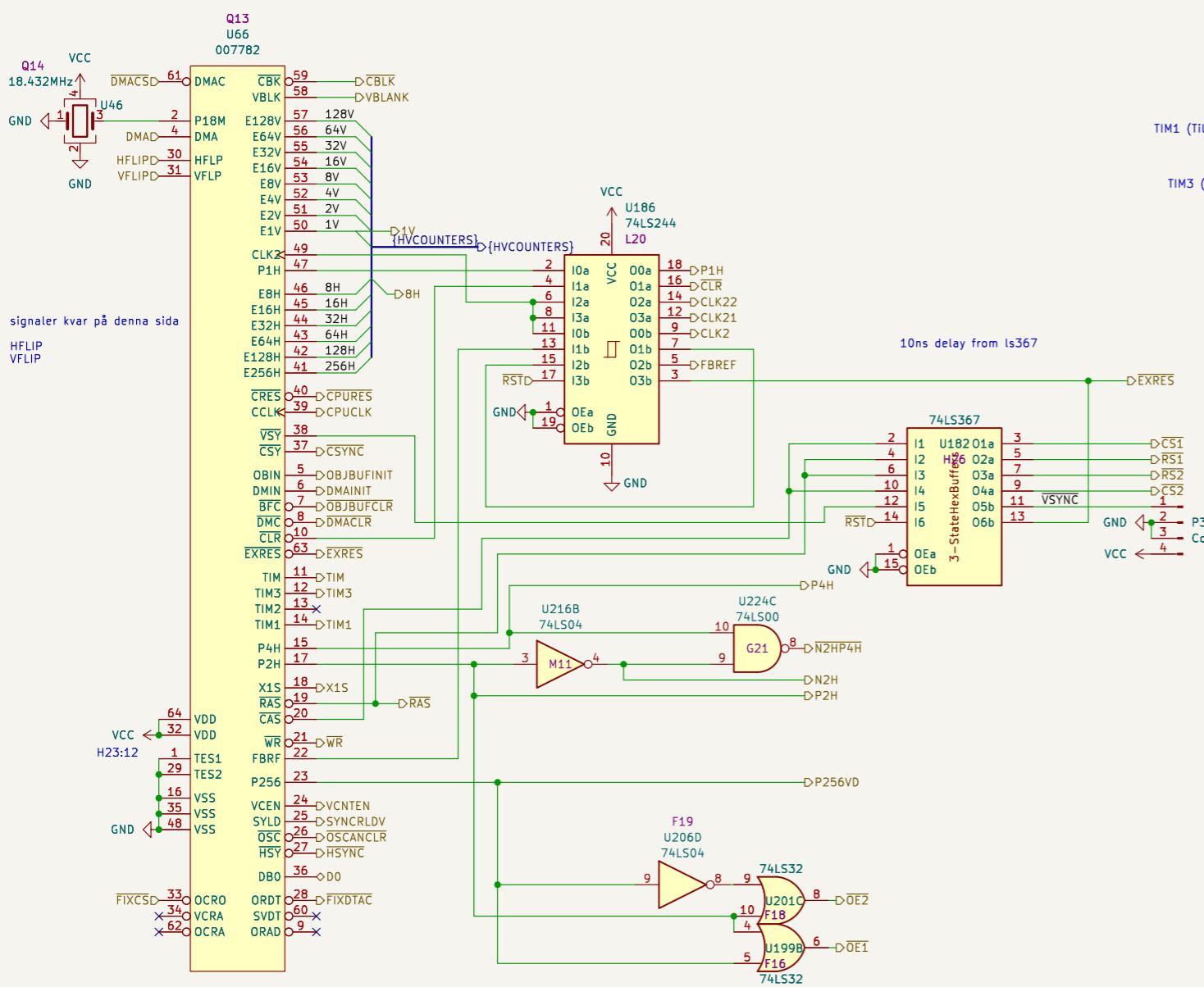
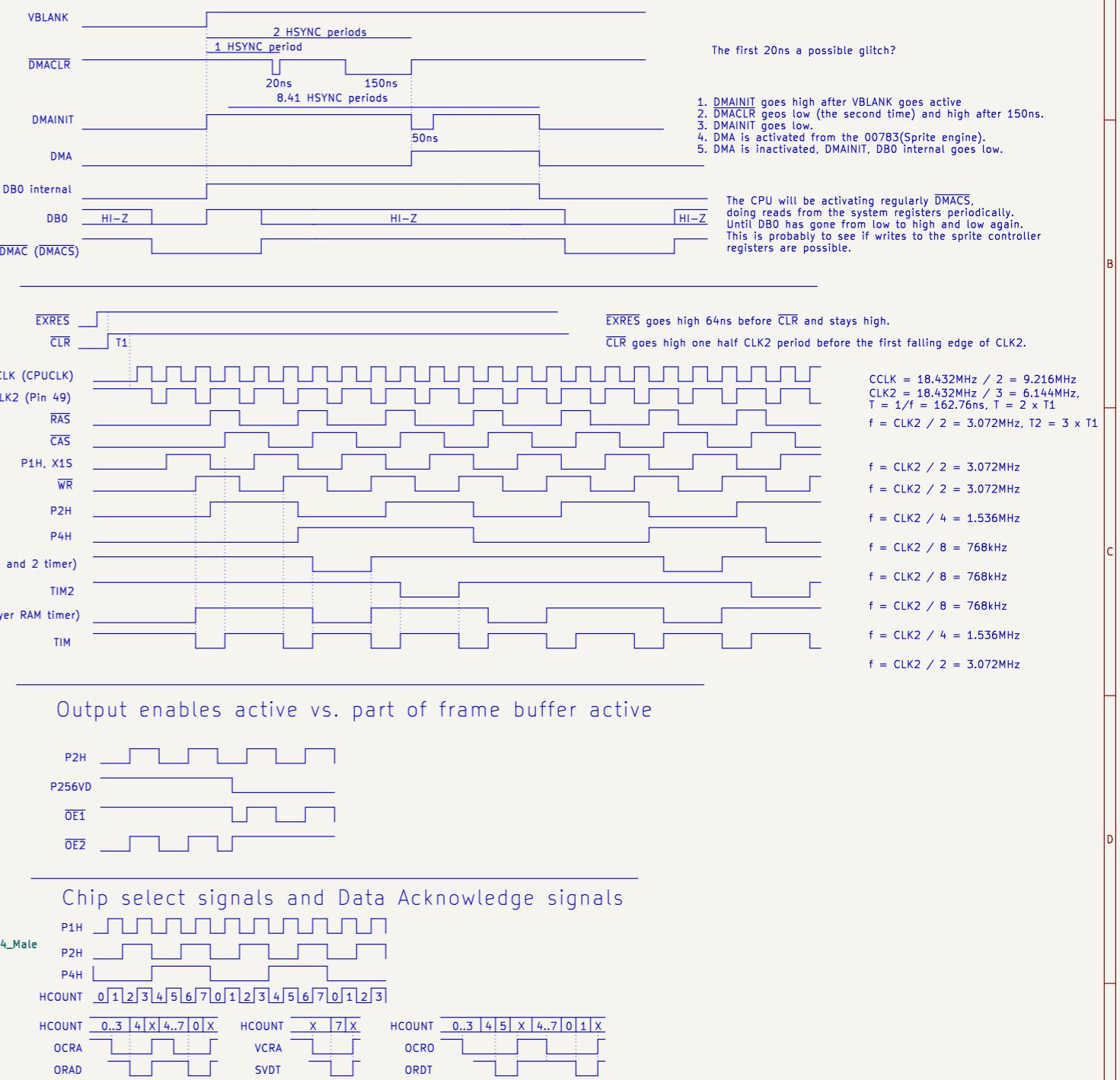


## DMA Synchronization



Pins 30 and 31 were swapped on the schematics.



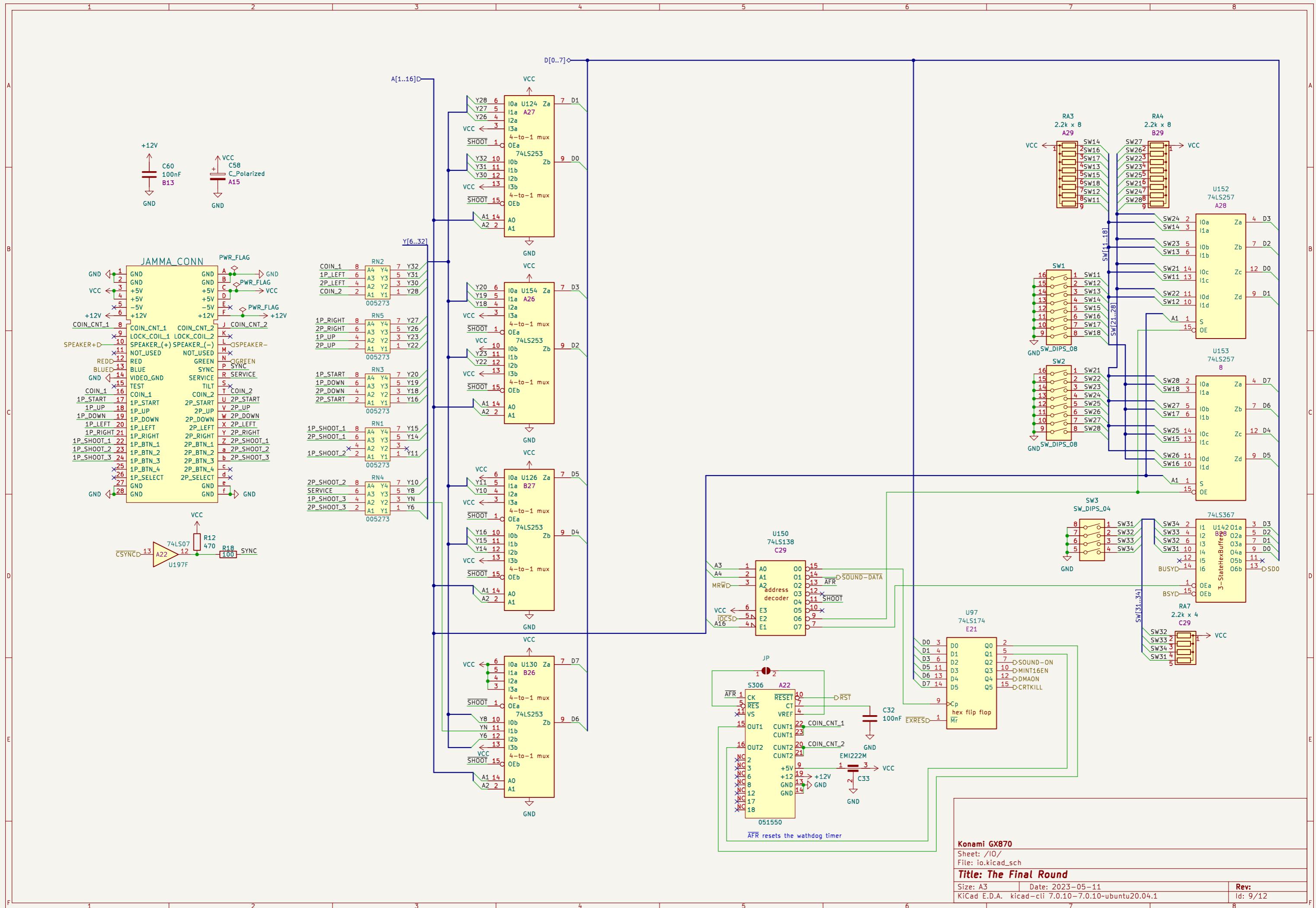
Timing  
**Konami GX870**  
Sheet: /Timing.  
File: timing.kicd

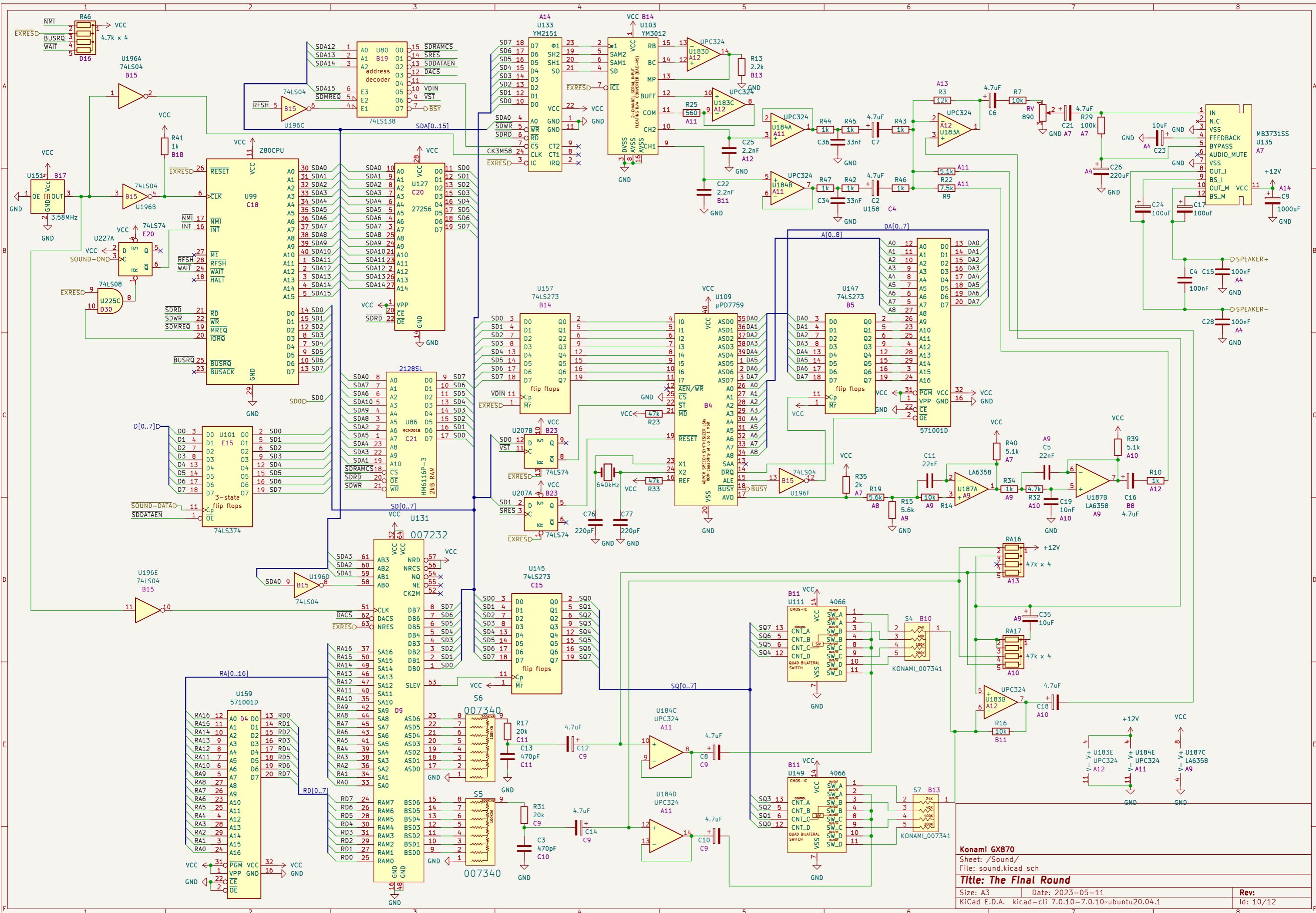
## Title: The Final Round

Size: A3 Date:

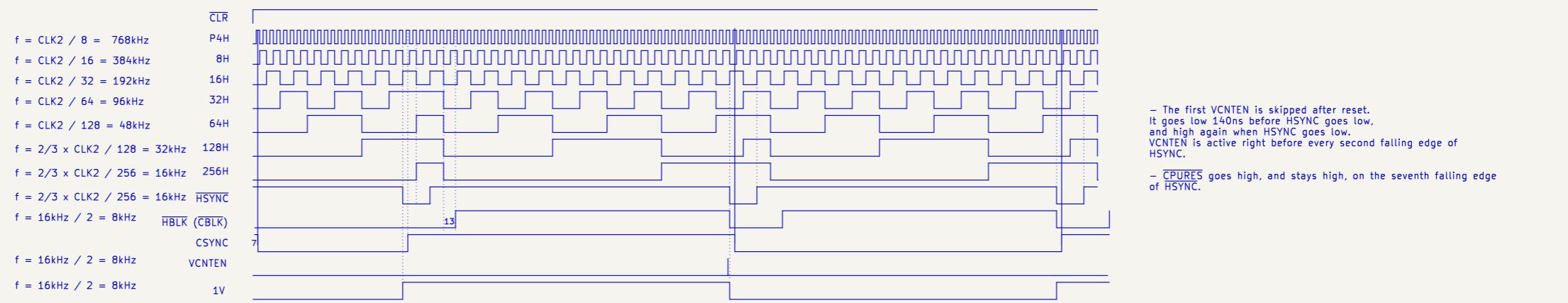
KiCad E.D.A. kicad-cli 7.0.10-7.0.10~ubuntu20.04.1

Id: 8/12





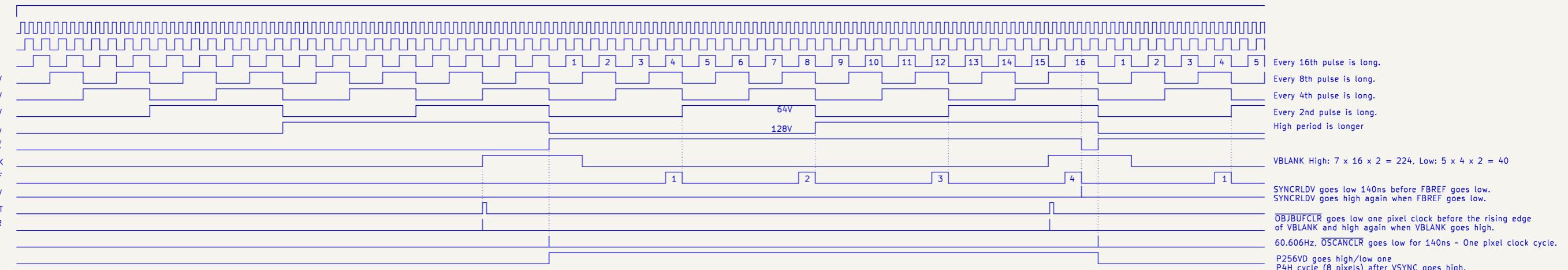
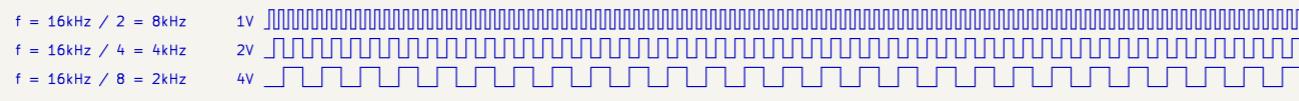
## Horizontal signals



- The first VCOUNTEN is skipped after reset.  
It goes low 140ns before HSYNC goes low,  
and high again when HSYNC goes low.  
VCOUNTEN is active right before every second falling edge of  
HSYNC.

- CPURES goes high, and stays high, on the seventh falling edge  
of HSYNC.

## Vertical signals



### Konami GX870

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	8
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A

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A

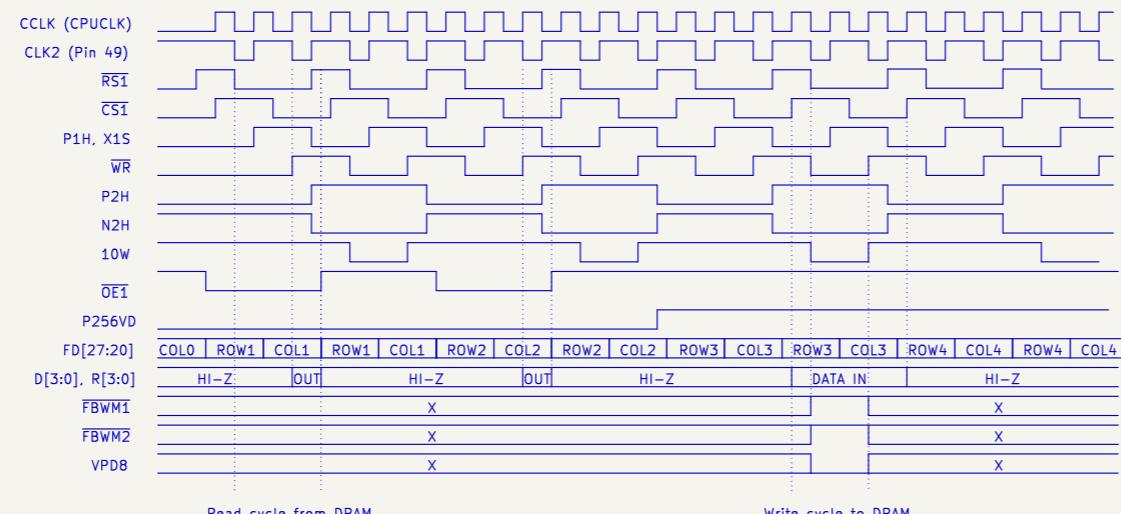
B

C

D

E

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

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Id: 12/12