

The 007786 scans for valid object data:

- Object (sprite) code,
- palette,
- position and
- attributes

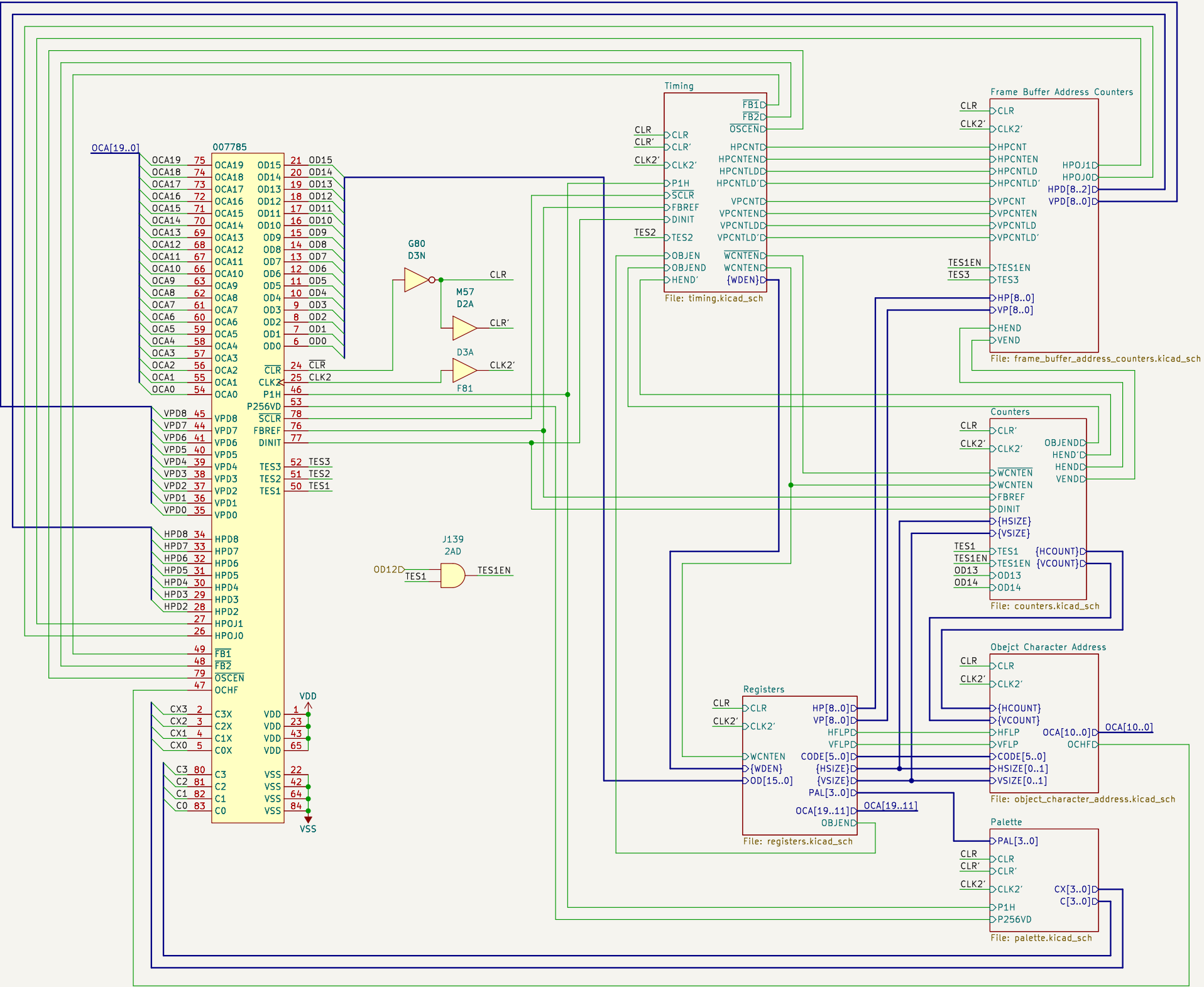
It translates it into:

- Individual object character (tiles) color code,
- Palette values
- object character address

This is copied into the frame buffers with the 007786.

1. SCLR (OSCANCLR) starts the obejct scanning process.
2. OSCEN is activated when each of the four words to be scanned are to be read. The 007783 increments the address.

The 007786 uses an OKI 79V000 gate cell array with 3289 unit cells.



Ulf Skutnabba, twitter: @skutis77

Sheet: /
File: 007785.kicad_sch

Title: Konami 007785

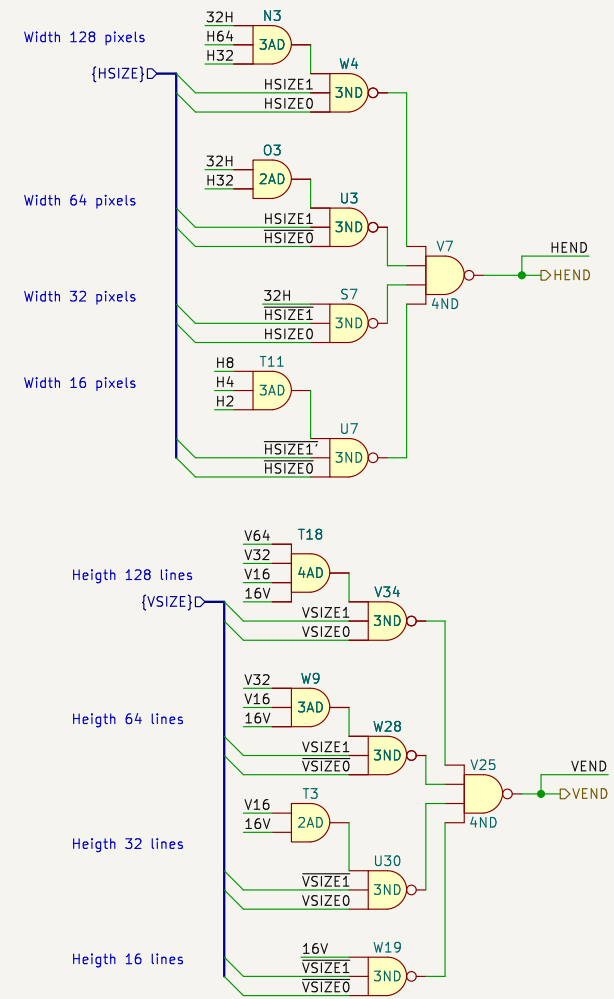
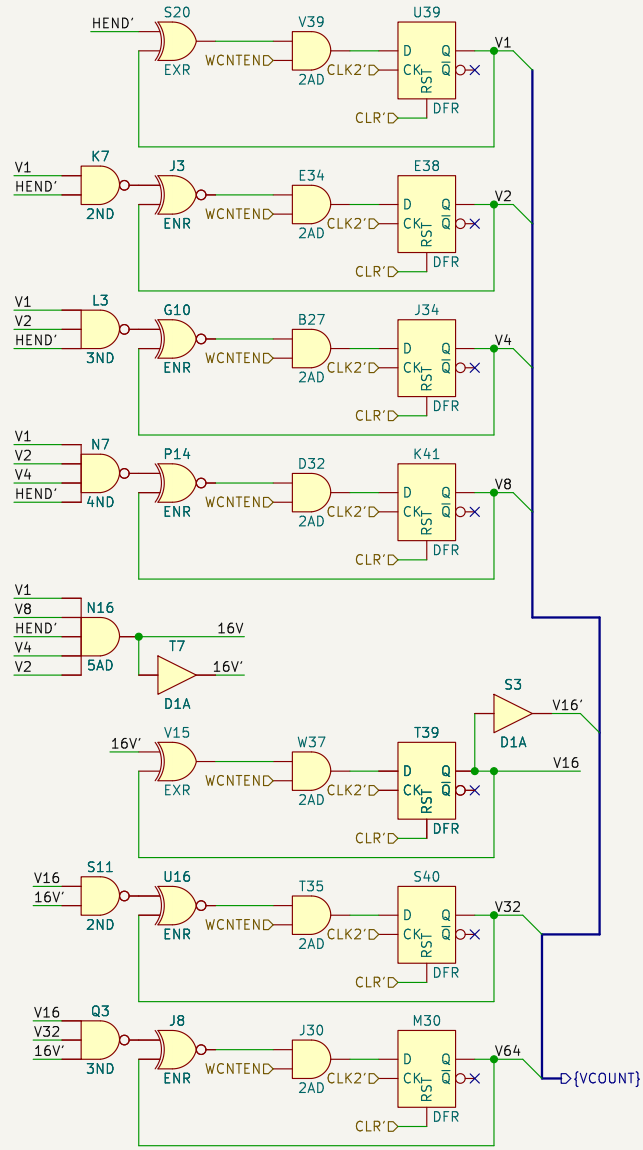
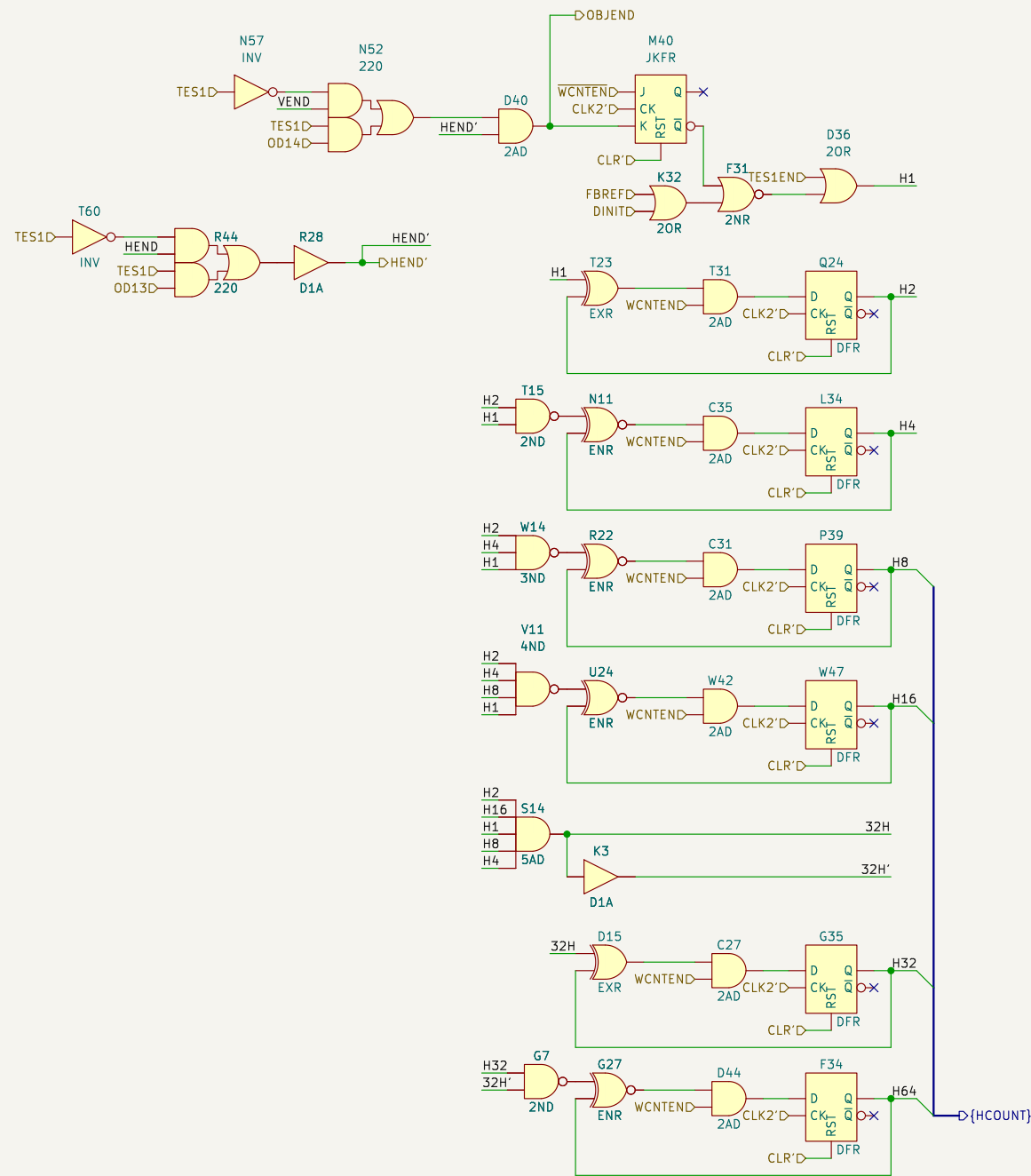
Size: A3 Date: 2023-12-22

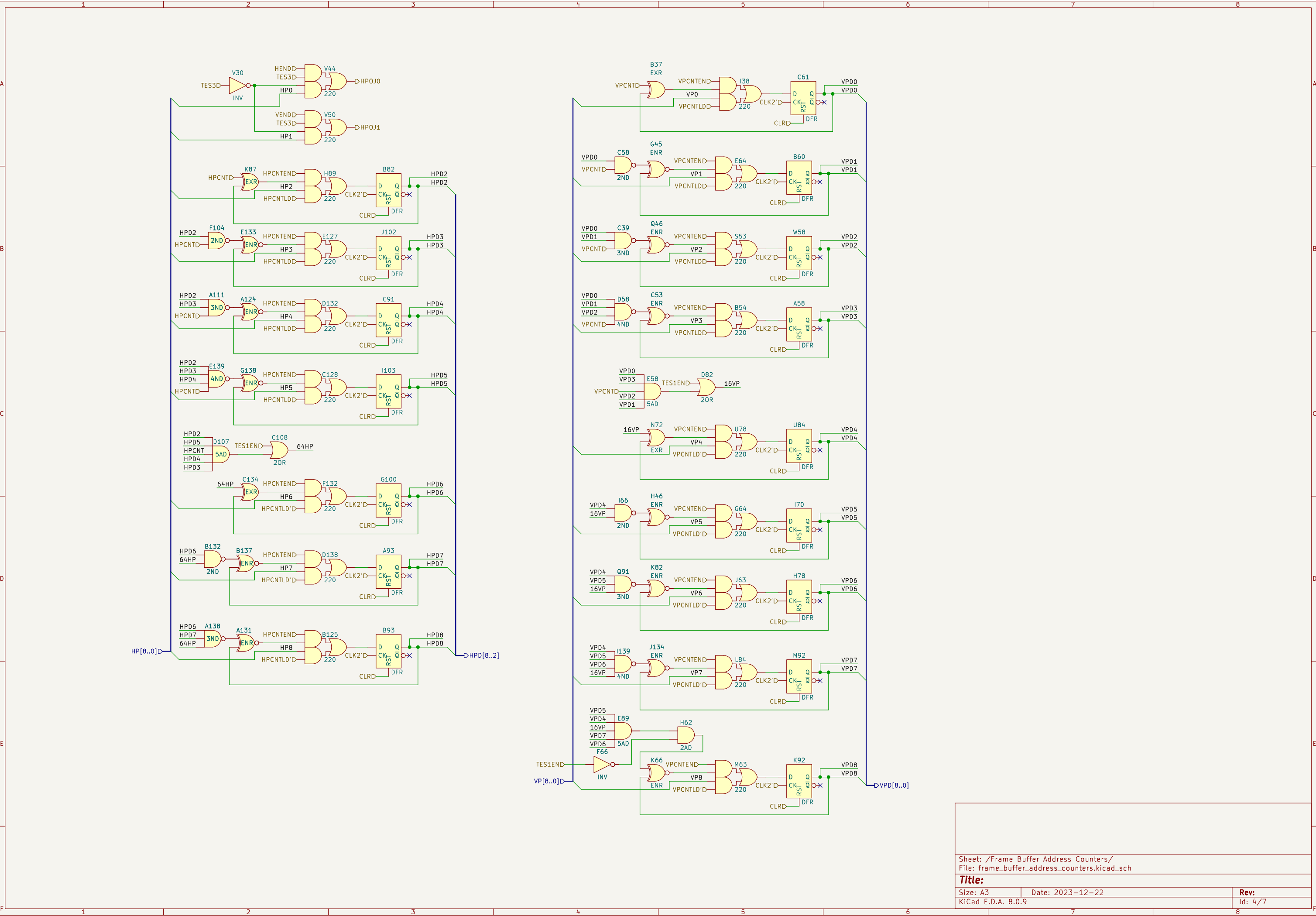
KiCad E.D.A. 8.0.9

Rev:

Id: 1/7







Sheet: /Frame Buffer Address Counters/
File: frame_buffer_address_counters.kicad_sch

Title:

Size: A3 Date: 2023-12-22

KiCad E.D.A. 8.0.9 **Rev:** Id: 4/7

Object Character Select Address

Object (Sprite) tiles are called characters on the twin16 platform.

VSIZE1	VSIZE0	VSIZI	HSIZE1	HSIZE0	HSIZE	OAS2	OAS1	OAS0		
0	0	16	0	0	16	0	0	0	0	16H16V
0	0	16	0	1	32	0	1	1	1	32H16V
0	0	16	1	0	64	0	1	0	2	64H16V
0	0	16	1	1	128	0	1	1	3	128H16V
0	1	32	0	0	16	1	0	0	4	16H32V
0	1	32	0	1	32	1	0	1	5	32H32V
0	1	32	1	0	64	0	1	0	2	64H32V
0	1	32	1	1	128	0	1	1	3	128H32V
1	0	64	0	0	16	0	1	0	3	16H64V
1	0	64	0	1	32	0	1	1	4	32H64V
1	0	64	1	0	64	1	1	0	6	64H64V
1	0	64	1	1	128	1	1	1	7	128H64V
1	1	128	0	0	16	1	1	0	6	16H128V
1	1	128	0	1	32	1	1	1	7	32H128V
1	1	128	1	0	64	1	1	0	6	64H128V
1	1	128	1	1	128	1	1	1	7	128H128V

Size	OAS0	OAS1	OAS2	OAS3	OAS4	OAS5	OAS6	OAS7	OAS8	OAS9	OAS10
16H16V	H8F	V1F	V2F	V4F	V8F	CODE0	CODE1	CODE2	CODE3	CODE4	CODE5
32H16V	H8F	H16F	V1F	V2F	V8F	CODE1	CODE2	CODE3	CODE4	CODE5	CODE6
16H32V	H8F	V1F	V2F	V4F	V8F	CODE1	CODE2	CODE3	CODE4	CODE5	CODE6
32H32V	H8F	H16F	V1F	V2F	V8F	CODE1	CODE2	CODE3	CODE4	CODE5	CODE6
64H16V, 64H32V, 16H64V	H8F	H16F	H32F	V1F	V2F	V8F	CODE1	CODE2	CODE3	CODE4	CODE5
128H16V, 128H32V, 32H64V	H8F	H16F	V1F	V2F	V8F	V16F	CODE1	CODE2	CODE3	CODE4	CODE5
64H64V, 16H128V, 64H128V	H8F	H16F	H32F	V1F	V2F	V8F	V16F	CODE1	CODE2	CODE3	CODE4
128H64V, 32H128V, 128H128V	H8F	H16F	H32F	H64F	V1F	V2F	V8F	V16F	V32F	CODE4	CODE5

Title:		
Size: A3	Date: 2023-12-22	Rev:
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