

The 007786 scans for valid object data:

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

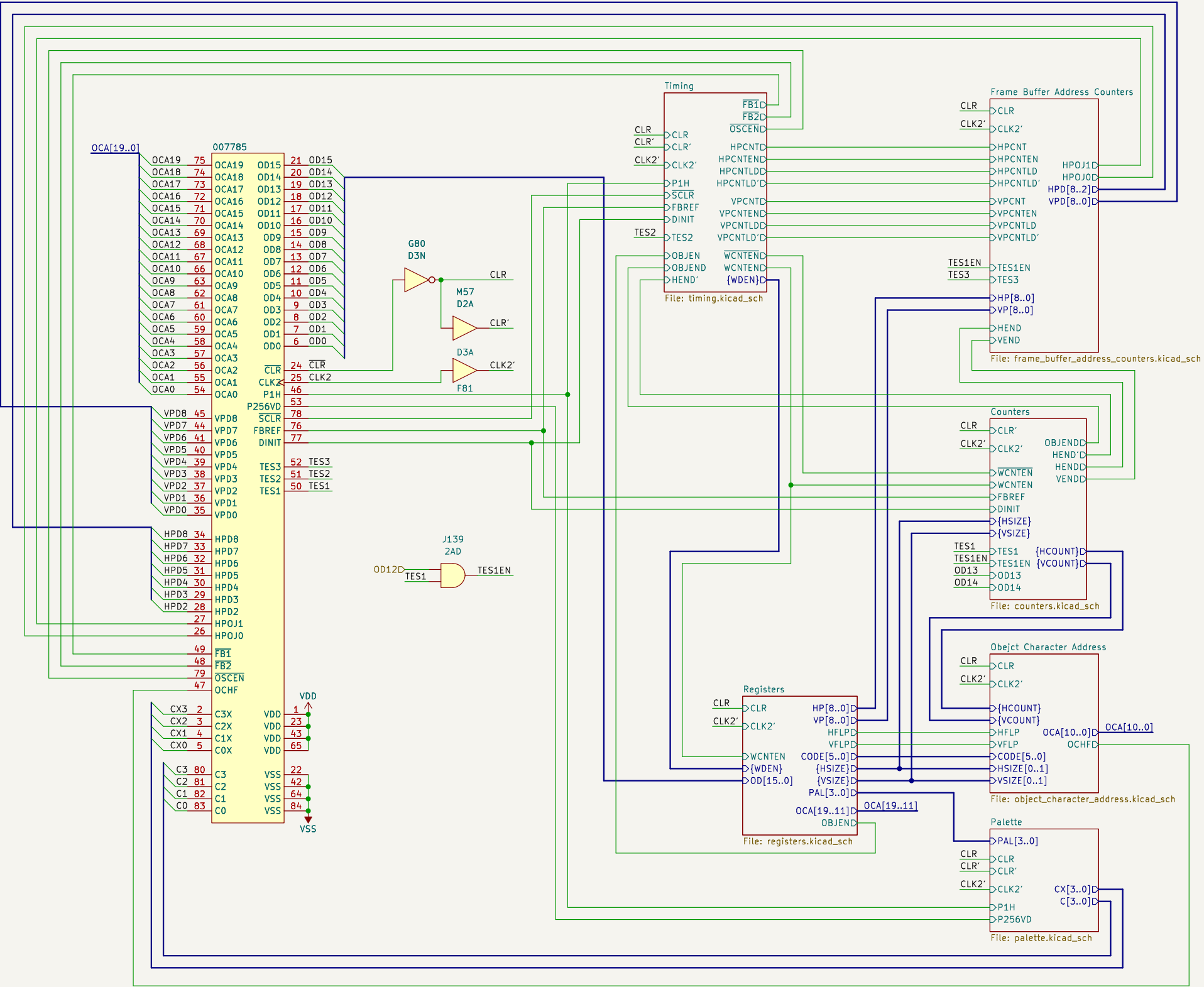
It translates it into:

- 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.



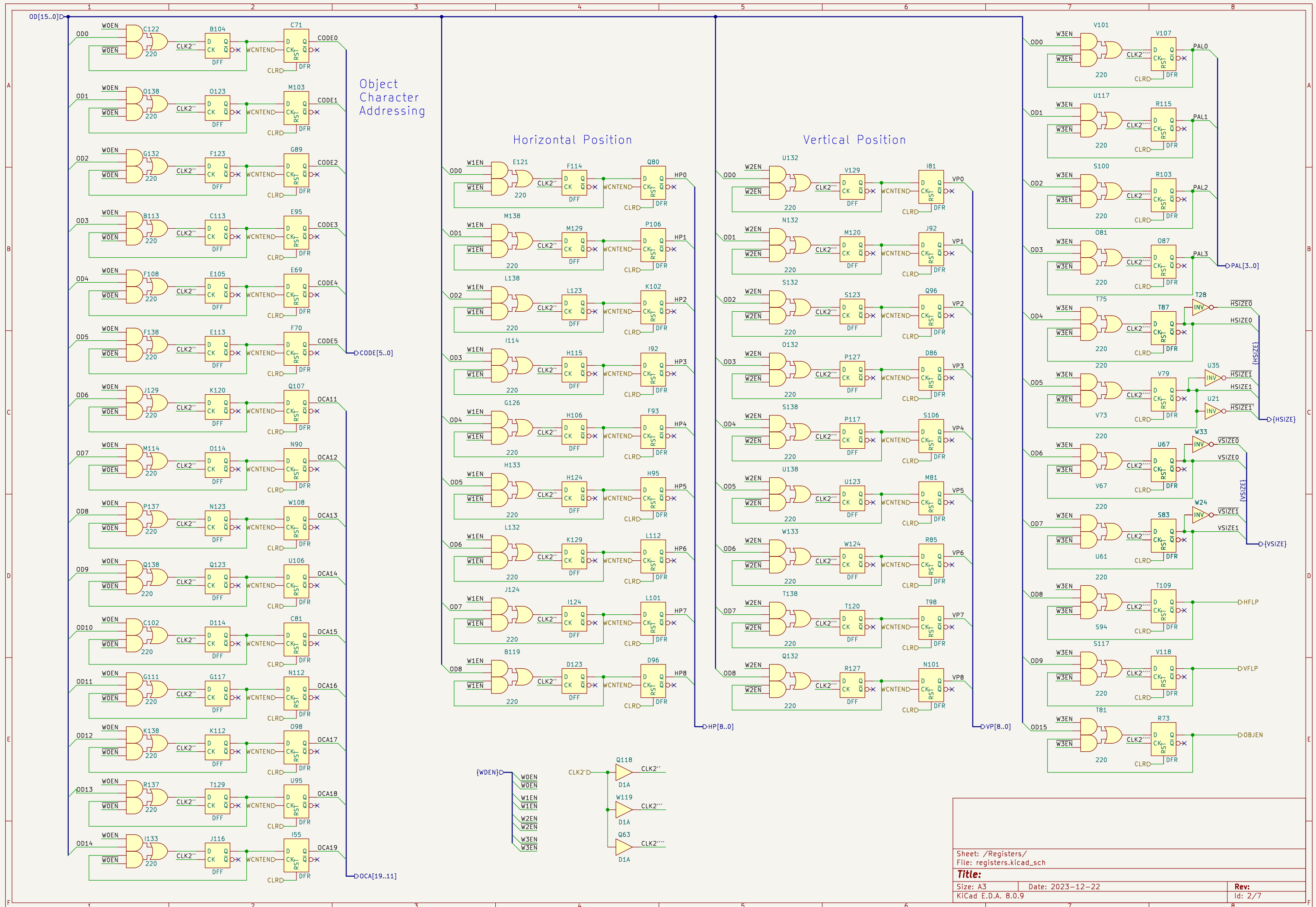
Ulf Skutnabba, twitter: @skutis77

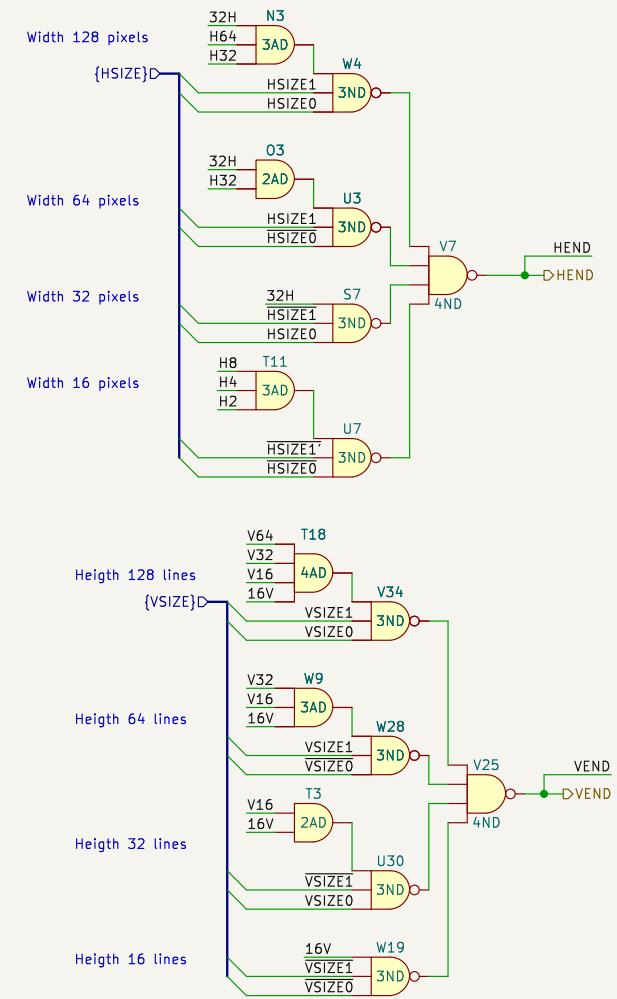
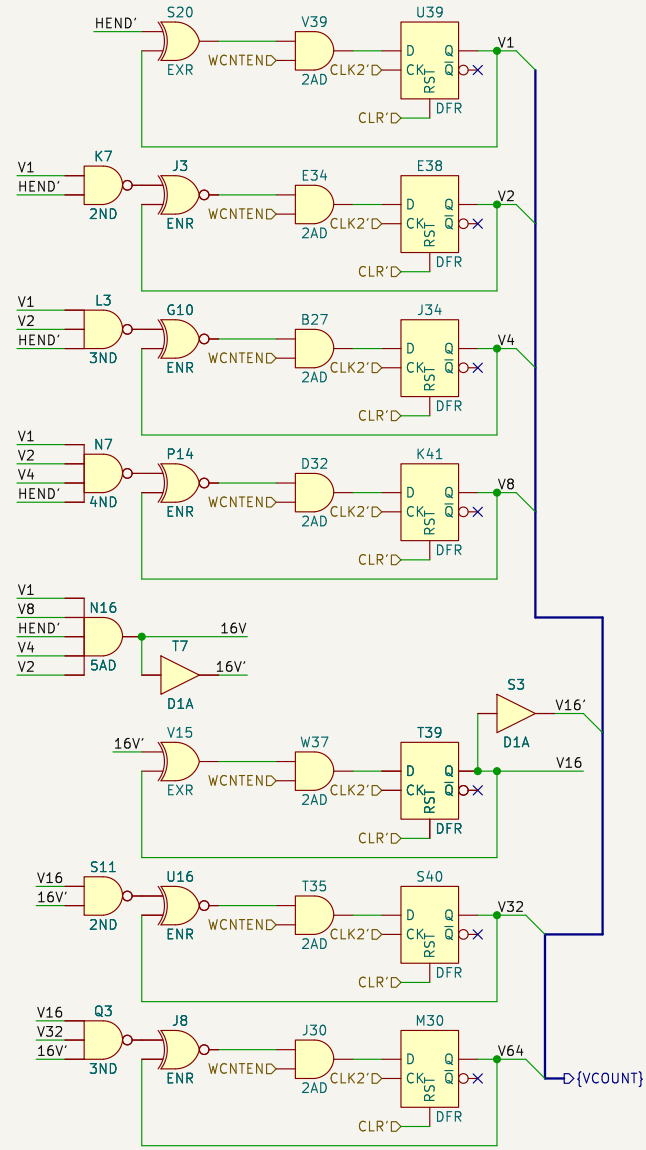
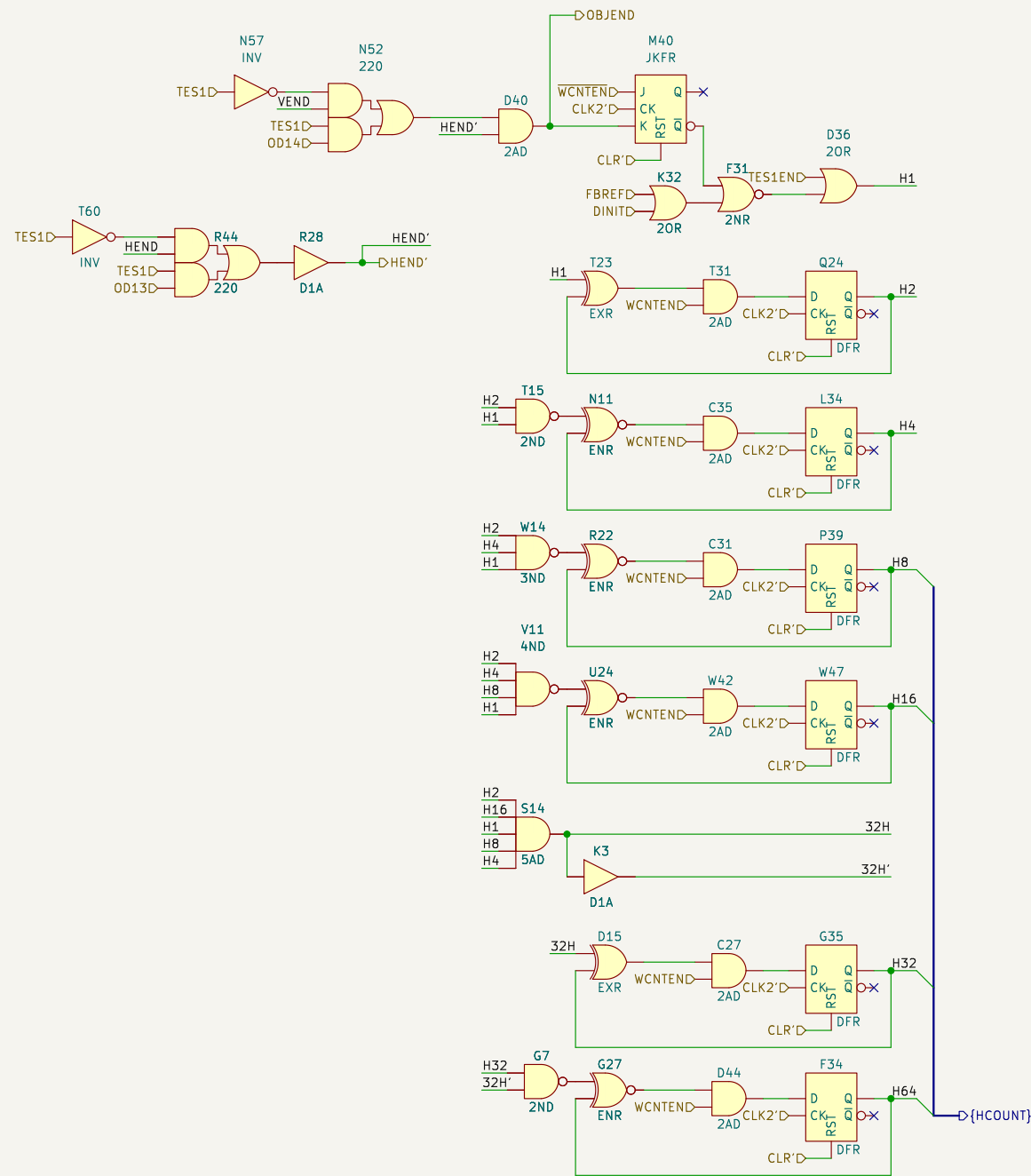
Sheet: /  
File: 007785.kicad\_sch

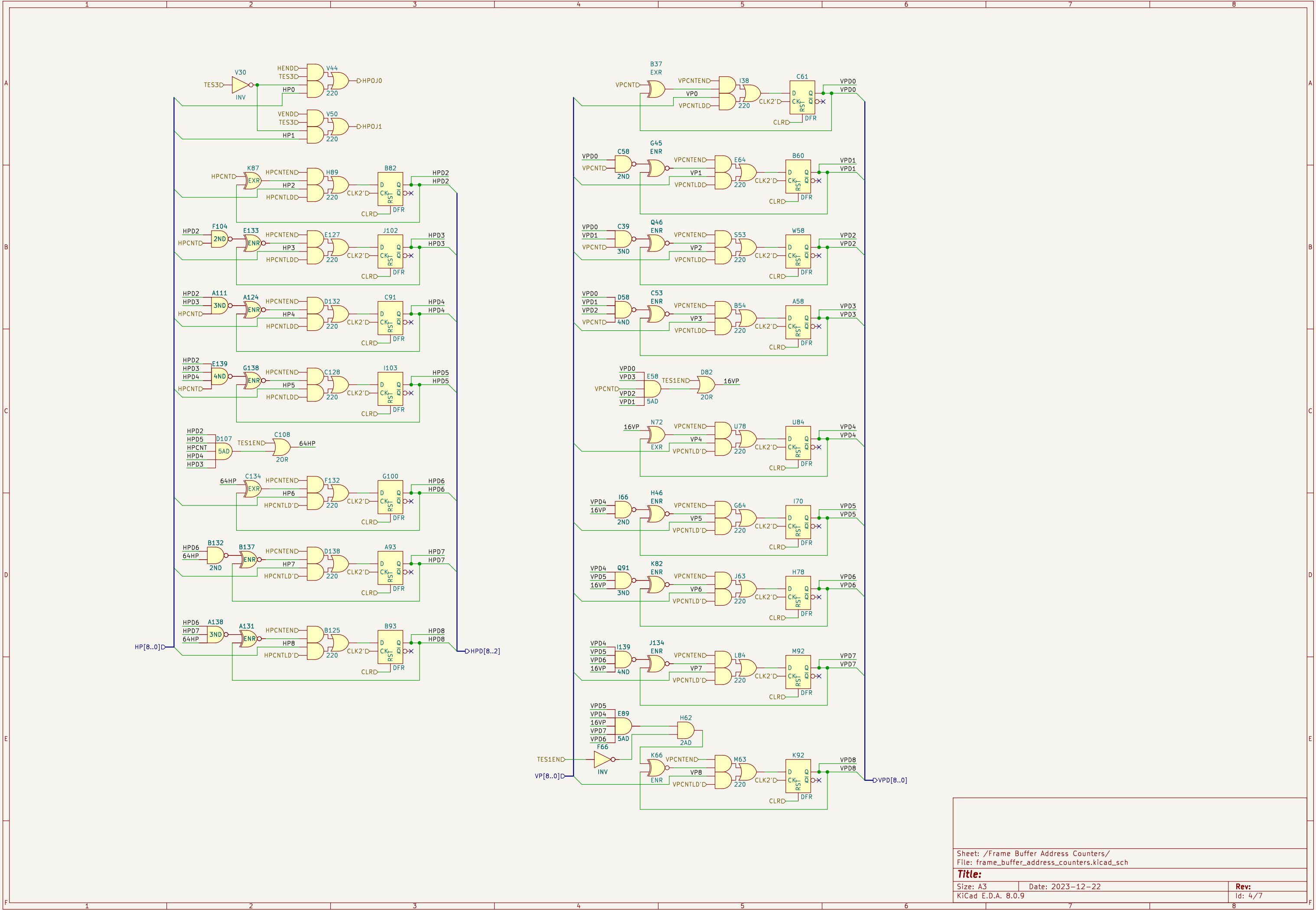
**Title: Konami 007785**

Size: A3 Date: 2023-12-22  
KiCad E.D.A. 8.0.9

Rev:  
Id: 1/7







**Object Character Select Address**

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

VSIZE1	VSIZE0	VSIZE	HSIZE1	HSIZE0	HSIZE	Ocas2	Ocas1	Ocas0		
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	1	0	32	0	1	1	6	32H64V
1	0	64	1	1	64	1	1	1	7	64H64V
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	Oca0	Oca1	Oca2	Oca3	Oca4	Oca5	Oca6	Oca7	Oca8	Oca9	Oca10
16H16V	H8F	V1F	V2F	V4F	V8F	CODE0	CODE1	CODE2	CODE3	CODE4	CODE5
32H16V	H8F	H16F	V1F	V2F	V8F	CODE1	CODE2	CODE2	CODE3	CODE4	CODE5
16H32V	H8F	V1F	V2F	V4F	V8F	CODE1	CODE2	CODE2	CODE3	CODE4	CODE5
32H32V	H8F	H16F	V1F	V2F	V8F	CODE1	CODE2	CODE2	CODE3	CODE4	CODE5
64H16V, 64H32V, 16H64V	H8F	H16F	H32F	V1F	V2F	V8F	V16F	CODE3	CODE3	CODE4	CODE5
128H16V, 128H32V, 32H64V	H8F	H16F	V1F	V2F	V8F	V16F	V32F	CODE3	CODE3	CODE4	CODE5
64H64V, 16H128V, 64H128V	H8F	H16F	H32F	V1F	V2F	V8F	V16F	V32F	CODE4	CODE4	CODE5
128H64V, 32H128V, 128H128V	H8F	H16F	H32F	H64F	V1F	V4F	V8F	V16F	V32F	CODE4	CODE5

Sheet: /Obejct Character Address/  
File: object\_character\_address.kicad\_sch

**Title:**

Size: A3 Date: 2023-12-22 Rev: Id: 5/7

KiCad E.D.A. 8.0.9

<b>Title:</b>		
Size: A3	Date: 2023-12-22	<b>Rev:</b>
KiCad E.D.A. 8.0.9		Id: 5/7

