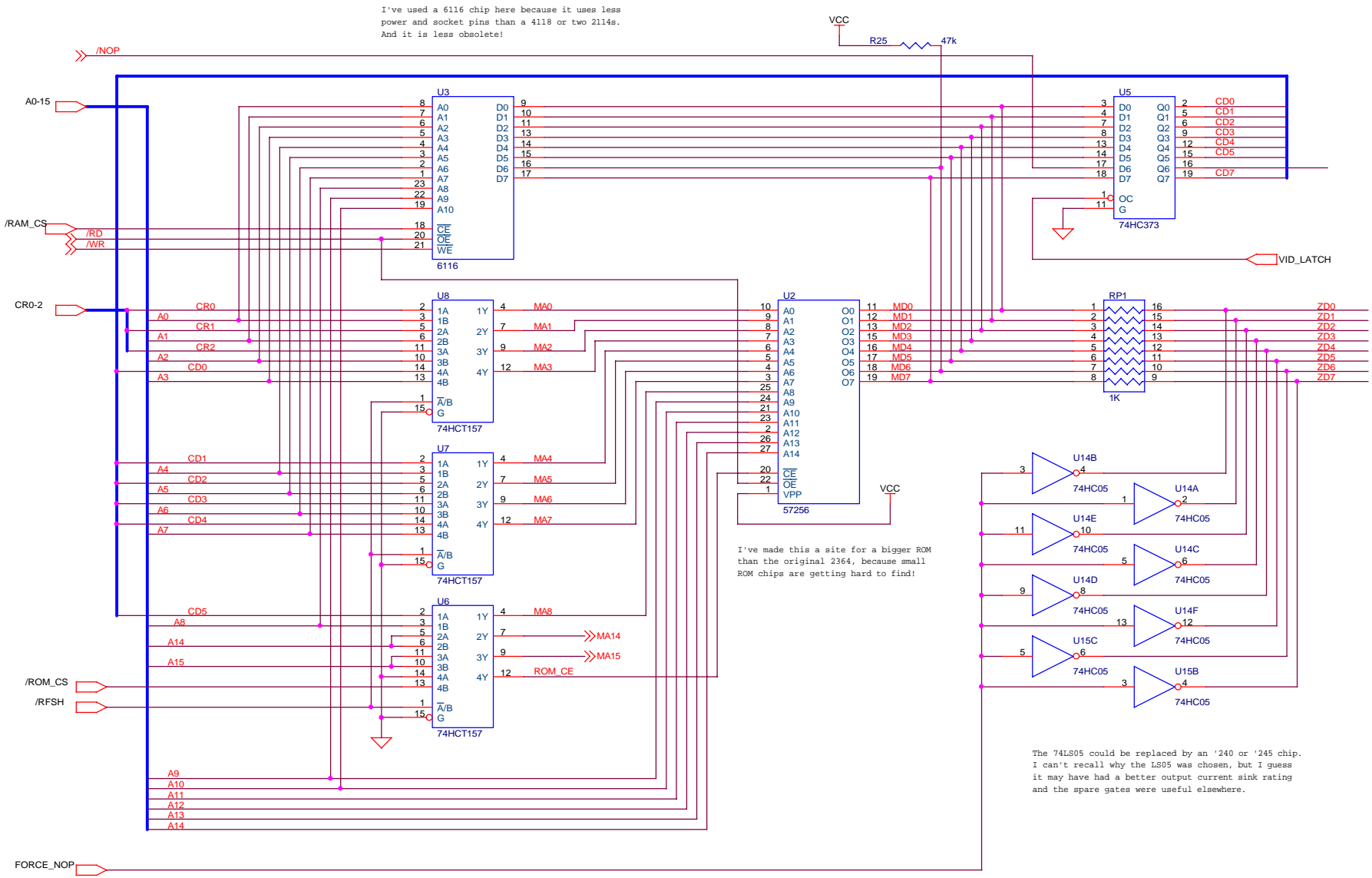


R102 added for peace of mind!
I don't like floating inputs,
especially if using CMOS 280.

The ZX81 video system requires
A6 to drive /INF

Title ZX80 Circuit Diagram: CPU & GLU		
Size A3	Document Number K0080	Rev 1.1
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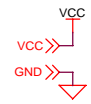


I've used a 6116 chip here because it uses less power and socket pins than a 4118 or two 2114s. And it is less obsolete!

I've made this a site for a bigger ROM than the original 2364, because small ROM chips are getting hard to find!

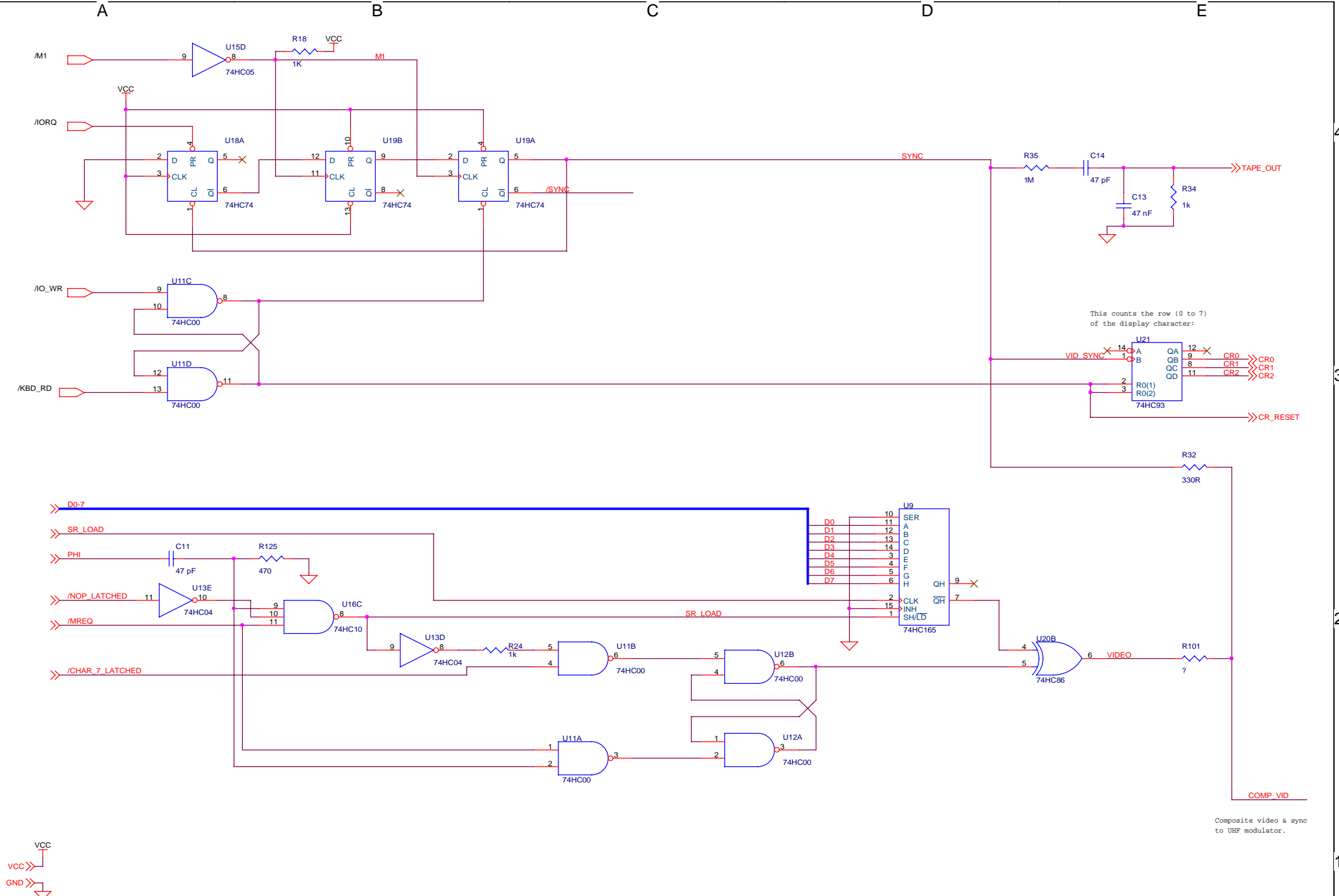
The 74LS05 could be replaced by an '240 or '245 chip. I can't recall why the LS05 was chosen, but I guess it may have had a better output current sink rating and the spare gates were useful elsewhere.

I've altered the pinning of the multiplexers from the original circuit, for ease of reading the circuit instead of ease of laying the PCB tracks.



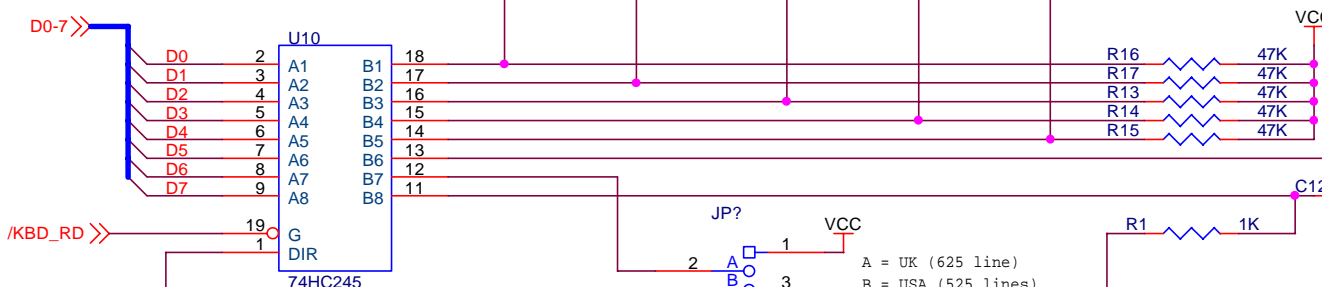
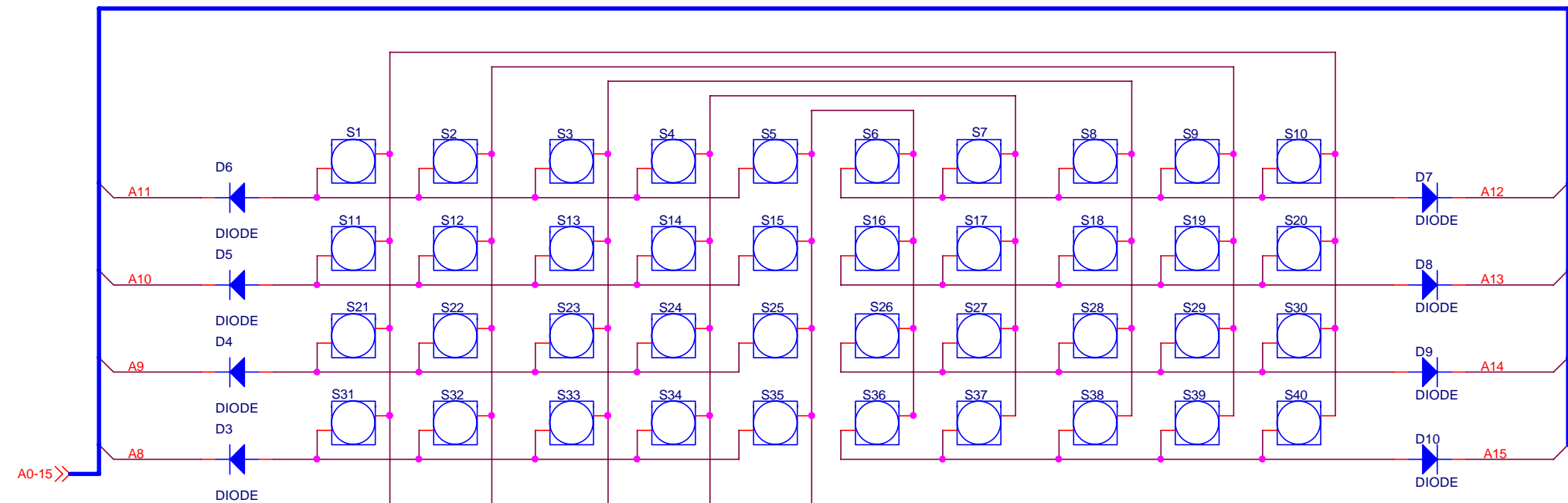
Title			ZX80 ROM & RAM		
Size	Document Number				Rev
A3	K0081				1.1
Date:	Monday, June 18, 2001	Sheet	2	of	4

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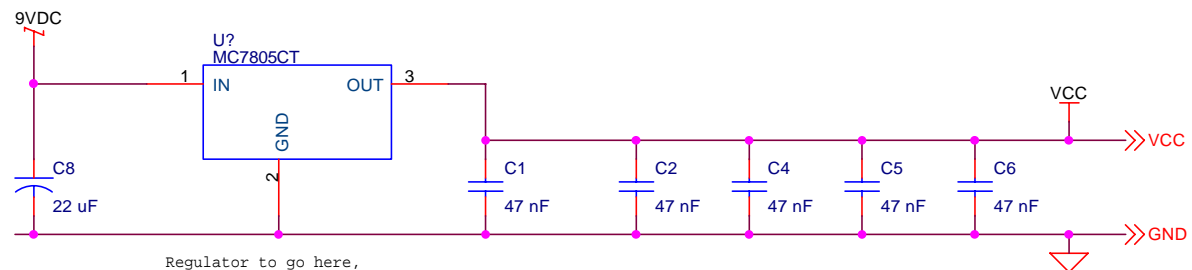


Title		ZX video
Size	Document Number	Rev
A3	K1002	11
Date:	Monday, June 18, 2001	Sheet 3 of 4

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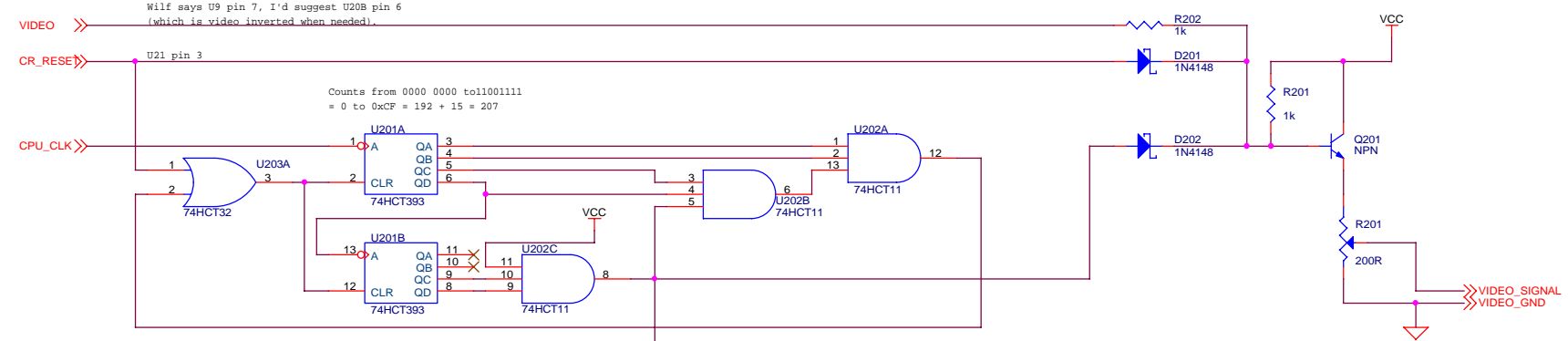


NEED TO CHECK DIRECTION!
MIGHT BE A GOOD IDEA TO REPLACE DIODES
WITH A '245 BUFFER, TO REDUCE EMI EMISSIONS

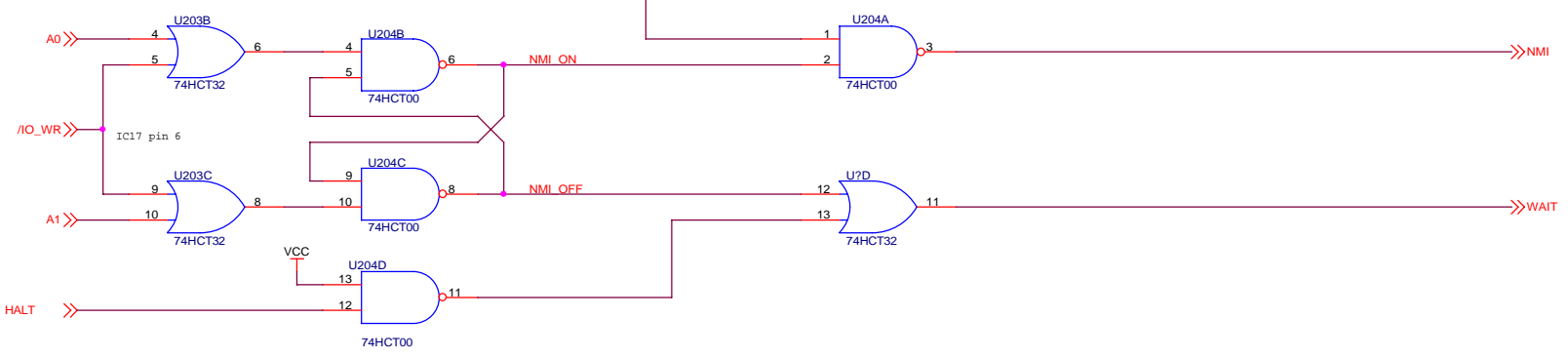


Regulator to go here,
if not driving from an
existing 5V supply.

Title		
ZX80 KEYBOARD & PSU		
Size	Document Number	Rev
A4	K1002	1.1
Date:	Monday, June 18, 2001	Sheet 4 of 4

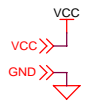


OUT FE=NMI ON
OUT FD=NMI OFF



THIS IS A DRAFT COPY ONLY!!!
NOT FULLY CHECKED!

Circuit designed by Wilf Ritger.



Title		
ZX NMI Generator		
Size	Document Number	Rev
A3	K1002	1.1
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