

LOW SPEED GRAPHIK

Author: InsaneDruid		
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reverse-engineered in 2022		
Sheet: /		
File: lsg.kicad_sch		
Title: LOW SPEED GRAPHIK		
Size: A4	Date: 2022-03-13	Rev: V001
KiCad E.D.A. kicad (6.0.9)		Id: 1/10

**12V Decoupling**

+12V ←

C2 .1uF C3 .1uF C4 .1uF C5 .1uF C6 .1uF C7 .1uF C8 .1uF C9 .1uF C10 .1uF C11 .1uF C12 .1uF C13 .1uF C14 .1uF C15 .1uF C16 .1uF C17 .1uF

GND ←

**5V Decoupling**

+5V ←

C30 .1uF C31 .1uF C32 .1uF C33 .1uF C34 .1uF C35 .1uF C36 .1uF C37 .1uF C38 .1uF C58 .1uF C1 .1uF C18 .1uF C19 .1uF C20 .1uF C21 .1uF C22 .1uF

GND ←

**-5V Decoupling**

-5V ←

C23 .1uF C24 .1uF C25 .1uF C26 .1uF C27 .1uF

GND ←

The schematic diagram illustrates a 12-bit DAC circuit. It features a 5V power supply and a common ground. The circuit is composed of several integrated circuits (ICs) and logic components:

- 74LS05 Inverters:** A chain of 12 inverters (U14G, U16E, U3G, U5E, U40C, U10C, U17B, U13E, U2C, U4C) is used to generate the 12-bit digital output. The inputs are connected to a 5V supply, and the outputs are connected to a common ground.
- 74LS123 Monostable Multivibrators:** A chain of 12 monostable multivibrators (U14G, U16E, U3G, U5E, U40C, U10C, U17B, U13E, U2C, U4C) is used to generate the 12-bit digital output. The inputs are connected to a 5V supply, and the outputs are connected to a common ground.
- Logic Components:** The circuit includes 12 inverters (U14G, U16E, U3G, U5E, U40C, U10C, U17B, U13E, U2C, U4C) and 12 monostable multivibrators (U14G, U16E, U3G, U5E, U40C, U10C, U17B, U13E, U2C, U4C).

The circuit is designed to convert a 12-bit digital input into a 12-bit digital output. The 12-bit digital output is connected to a common ground. The 12-bit digital output is connected to a common ground.

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[illegible]

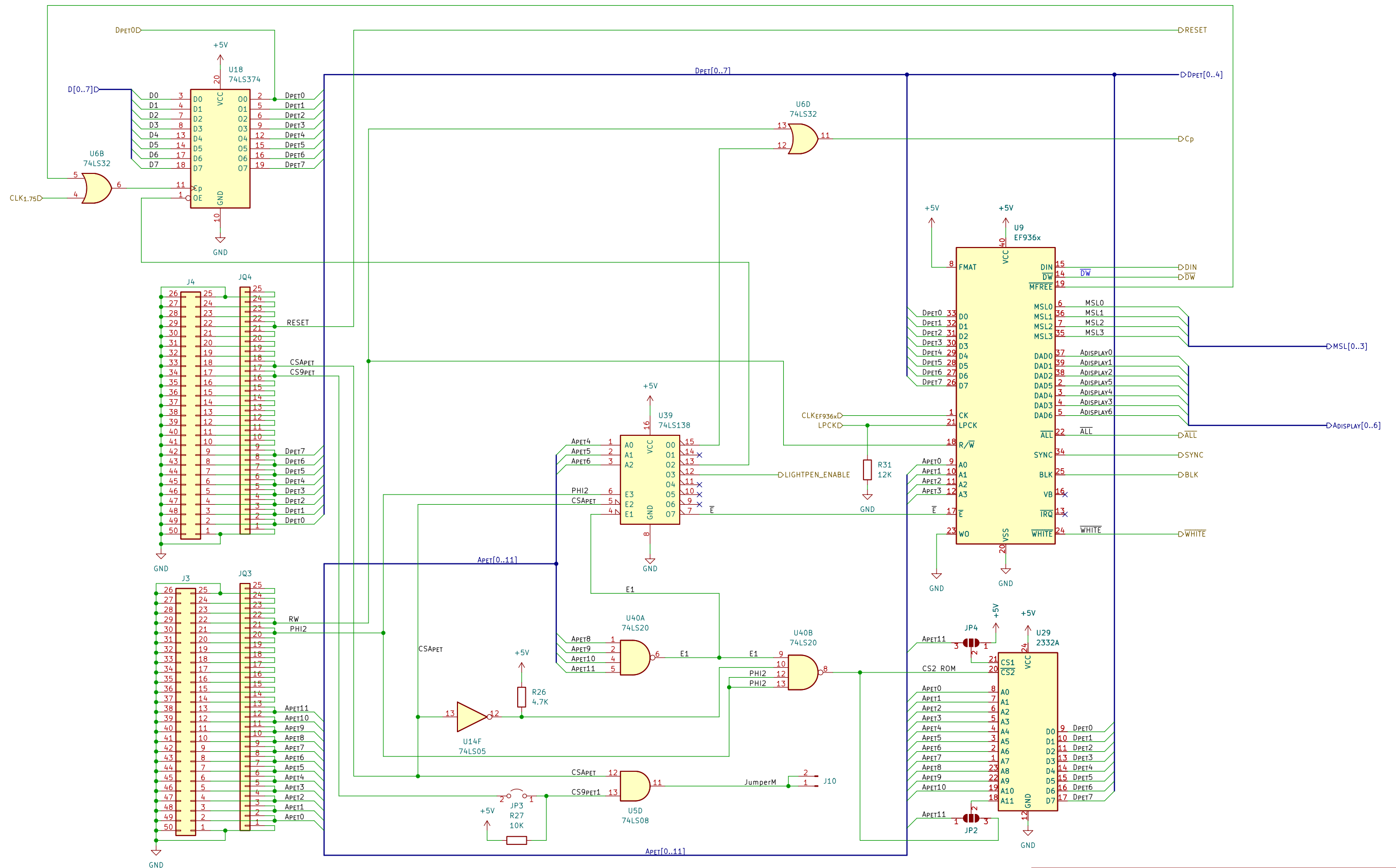
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File: master\_timings.kicad\_sch

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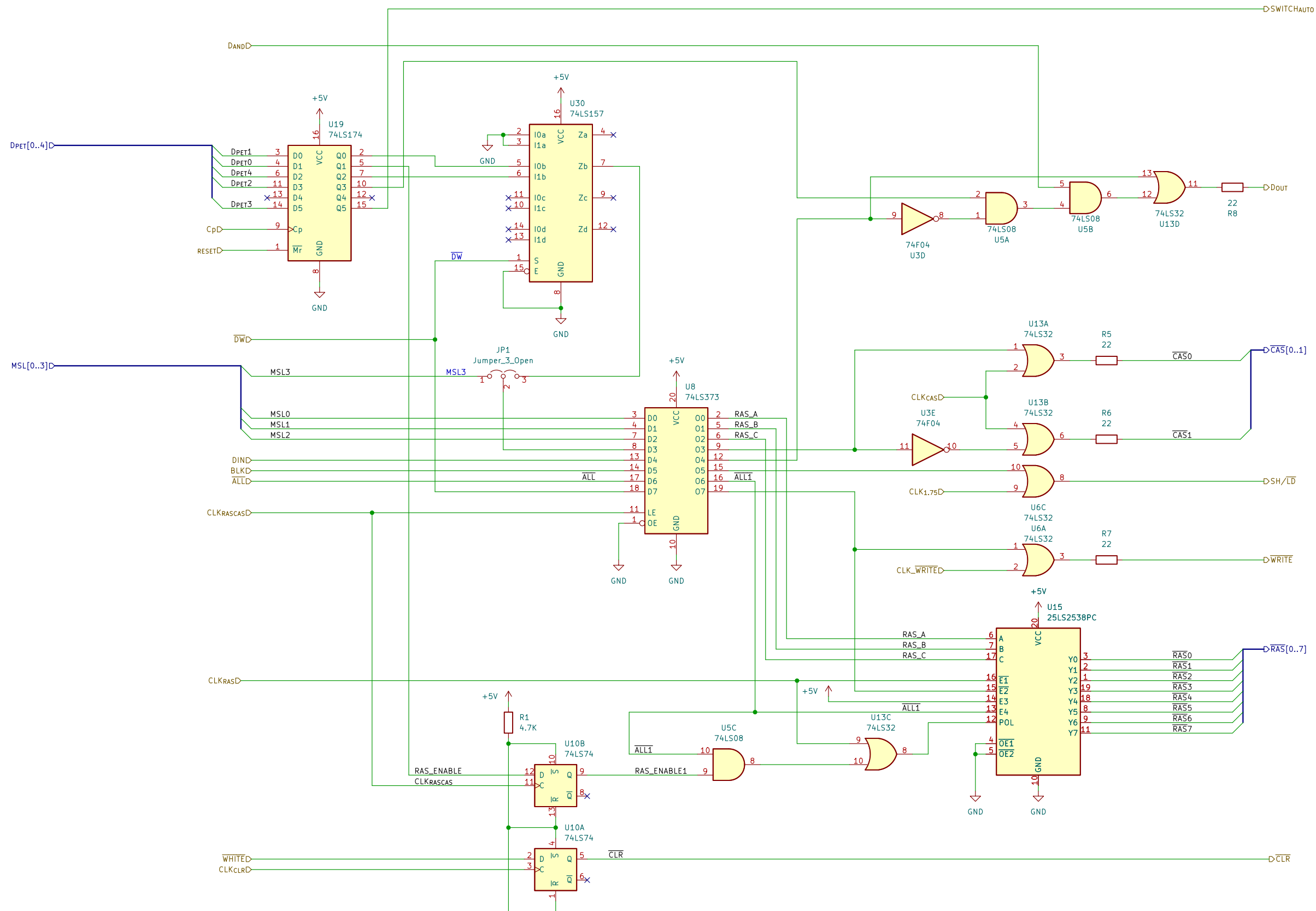
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## GPD & ROM

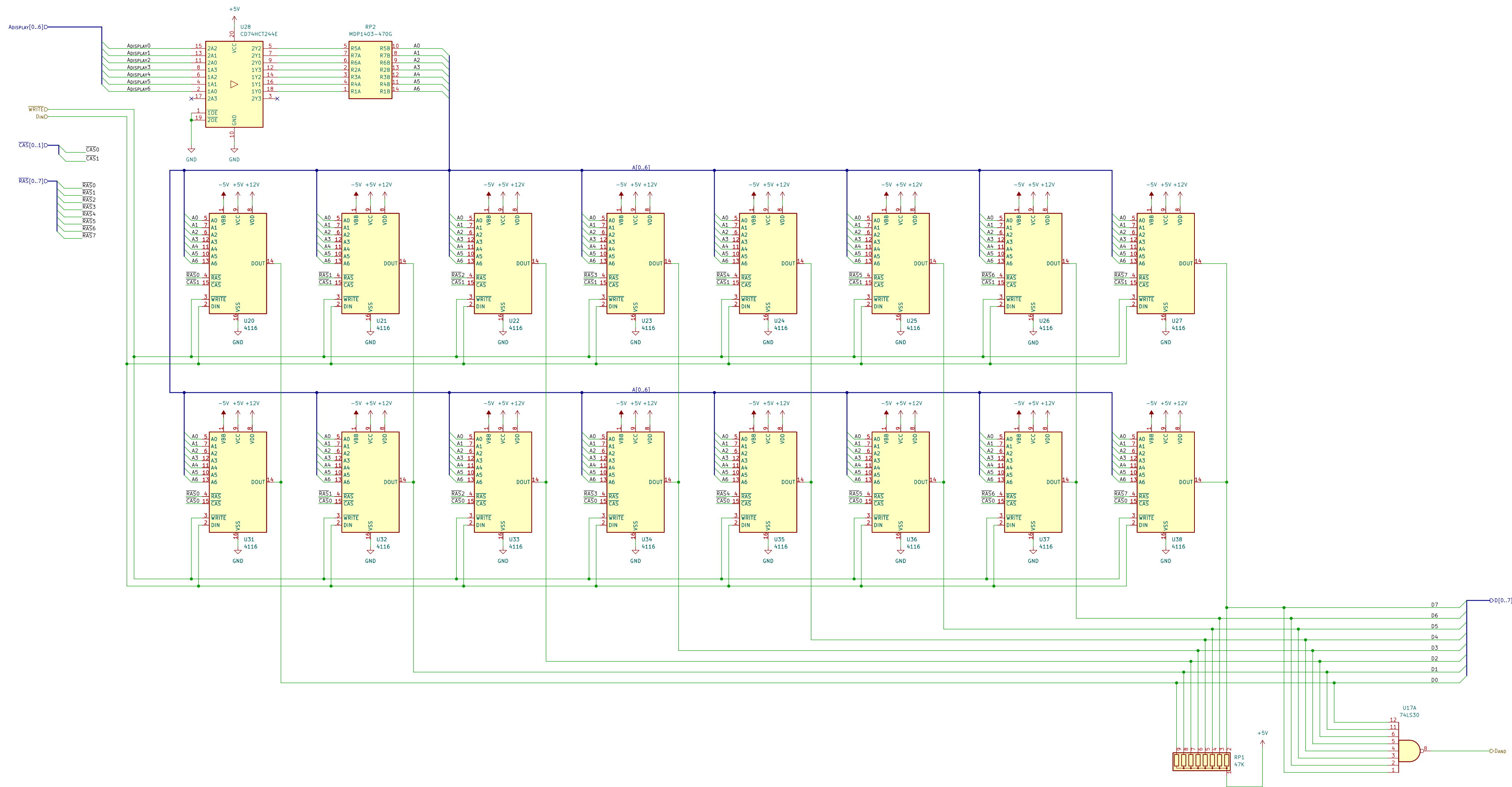


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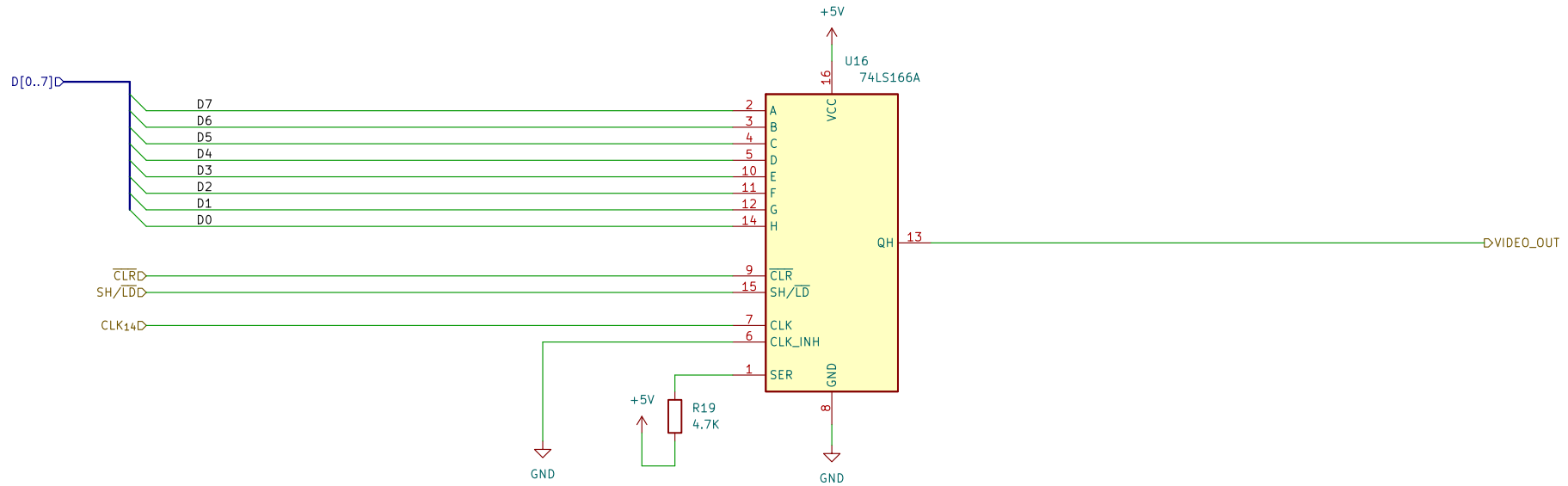
# ADDRESS DECODERS



# VIDEO RAM

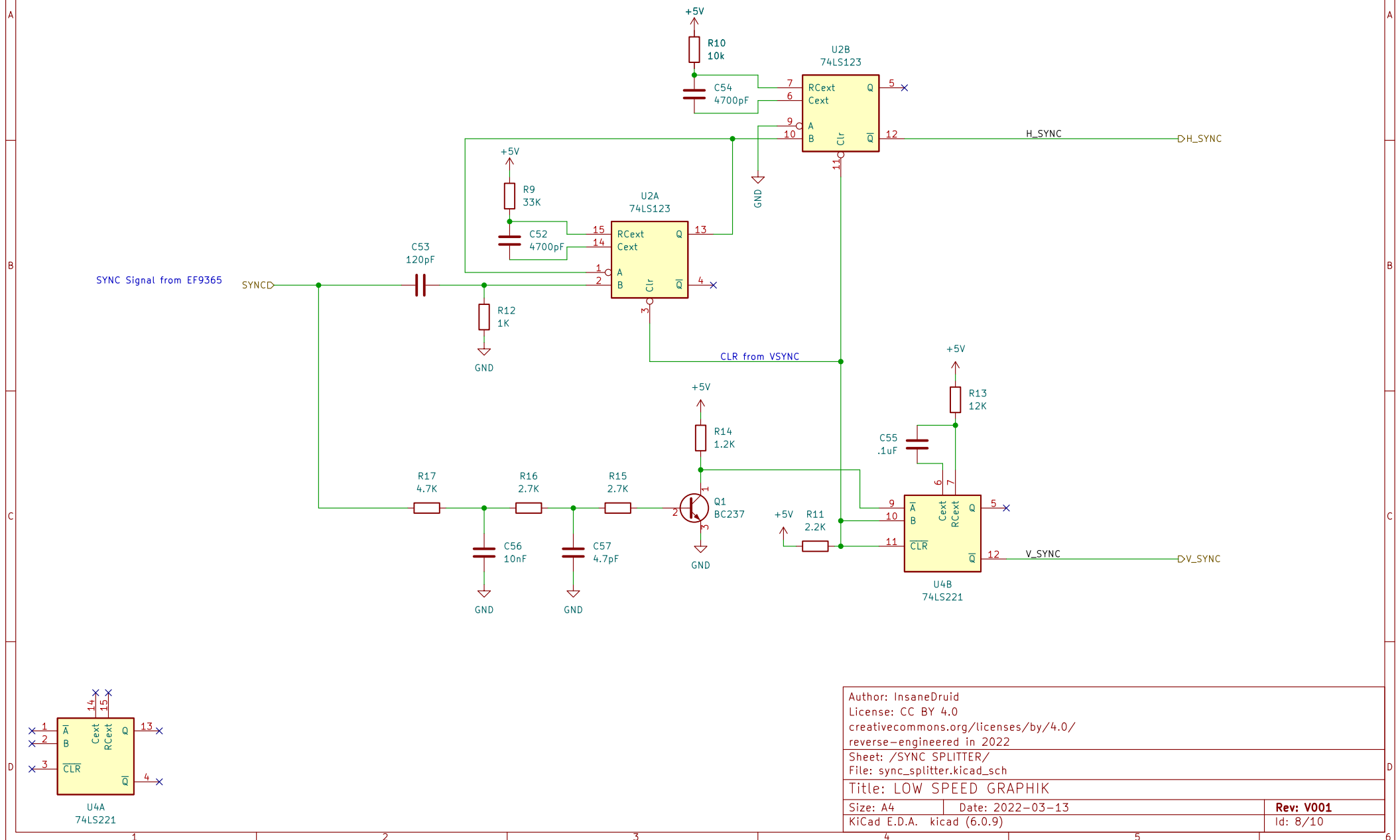


# VIDEO GENERATION



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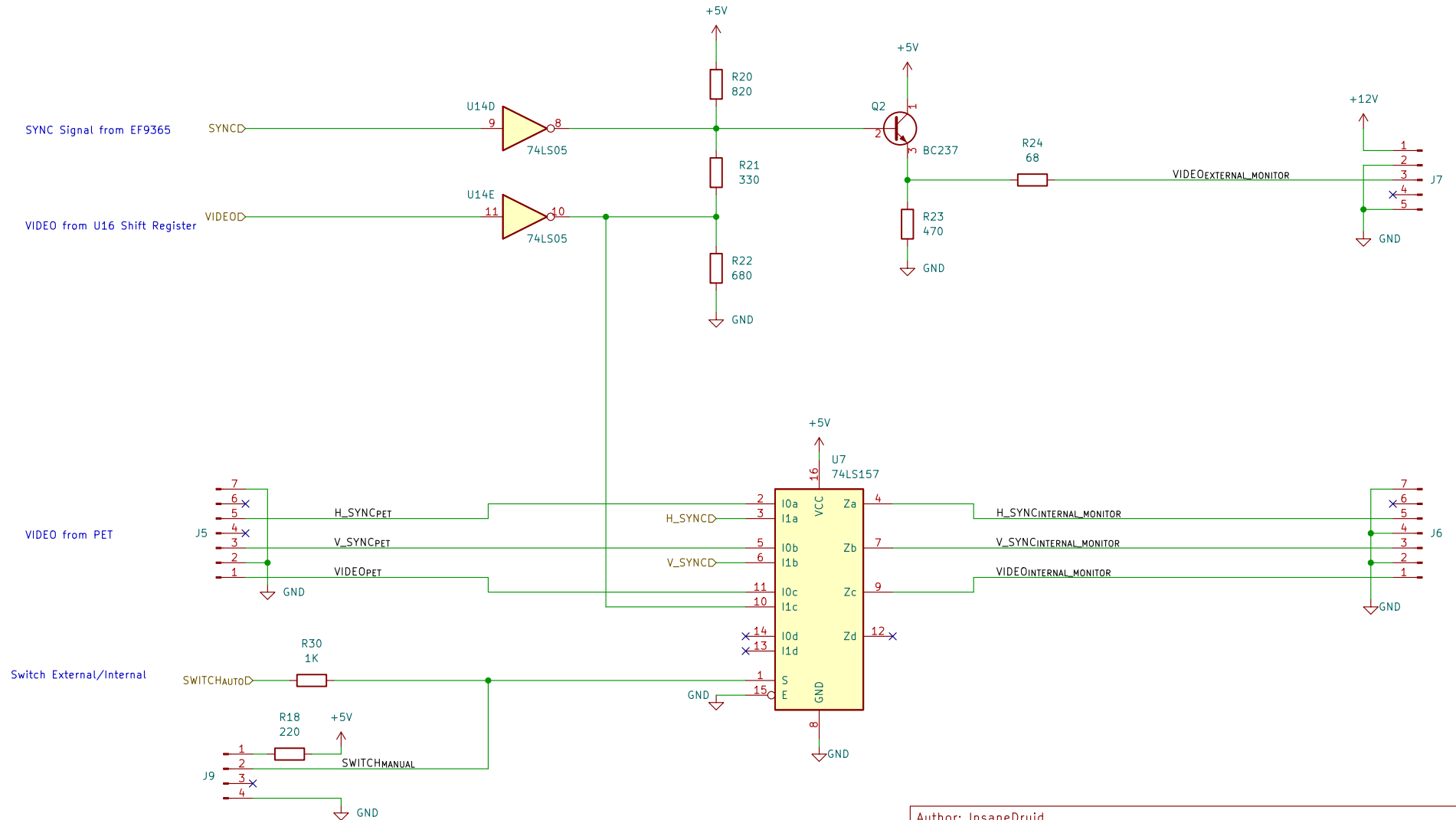
# SYNC SPLITTER



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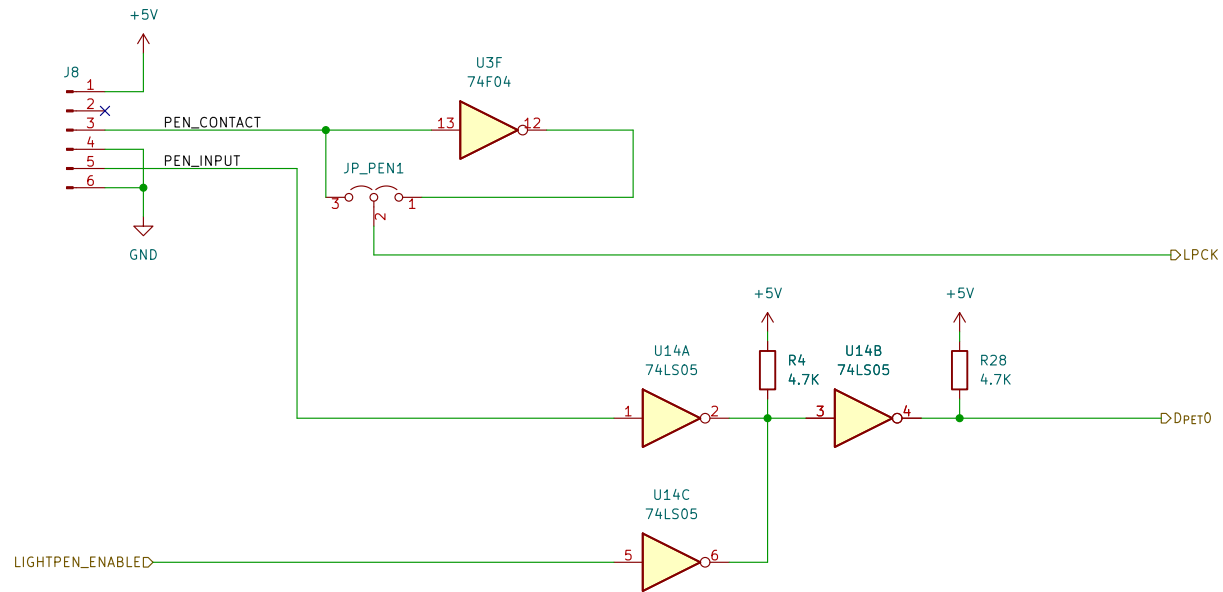


# VIDEO SWITCHING



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# LIGHT PEN



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File: light\_pen.kicad\_sch

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