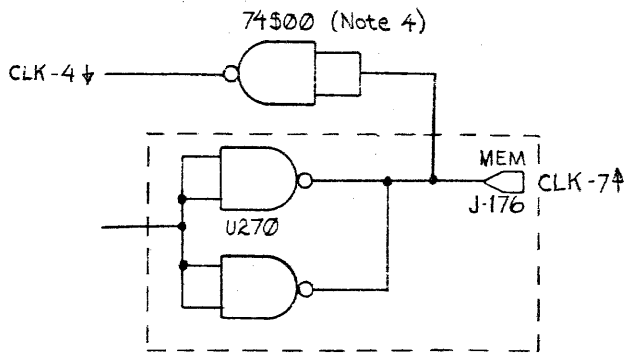


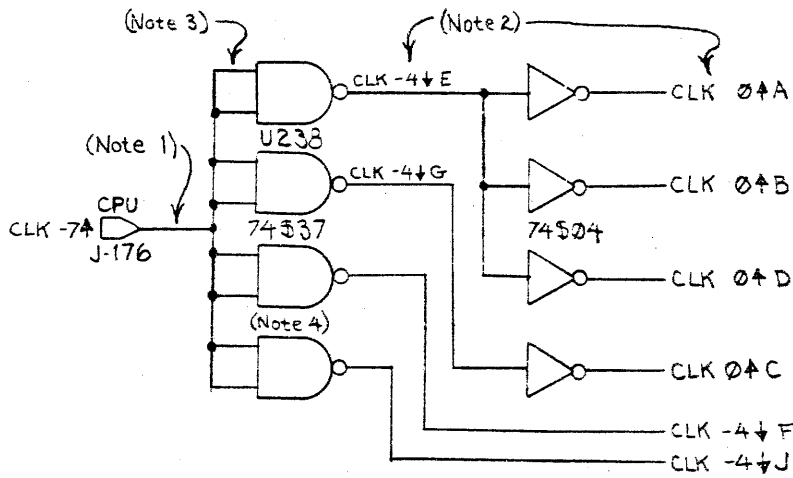
PERQ I/O BUS ADDRESS ALLOCATION

ADDRESS	READ/WRITE	BOARD ASSIGNMENT	FUNCTION
177			
150			USER USEABLE ADDRESSES (3RCC WILL NOT USE)
147	R	MEM Board	Read Parity Error ADR
146			Unused
145	R	MEM Board	CRT Signals
144	W	MEM Board	Load Cursor X Position
143	W	MEM Board	Load Video State
142	W	MEM Board	Load Cursor ADR Counter
141	W	MEM Board	Load Display ADR
140	W	MEM Board	Load Line Cntr
137		I/O Board	MADR Select 1
136		"	"
135		"	"
134		"	"
133		"	"
132		"	"
131		"	"
130		"	"
127		I/O Board	MADR Select 2
126		"	"
125		"	"
124		"	"
123		"	"
122		"	"
121		"	"
120		"	"
117	W	I/O Board	Disk Buffer
116	W	"	"
115	W	"	"
114	W	"	"
113	W	"	"
112	W	"	"
111	W	"	"
110	W	"	"
107	W	I/O Board	PERQ Write Interface (PERQ to Z80)
106	R	I/O Board	PERQ Reads Interface (Z80 to PERQ)
105	W	I/O Board	Net ADR Load
104	W	I/O Board	Net Control
103	R	I/O Board	Net Status
102	W	I/O Board	Disk Head Load
101	W	I/O Board	Disk Seek
100	R	I/O Board	Disk Status
077			UNUSED (RESERVED FOR 3RCC FUTURE USE)
000			

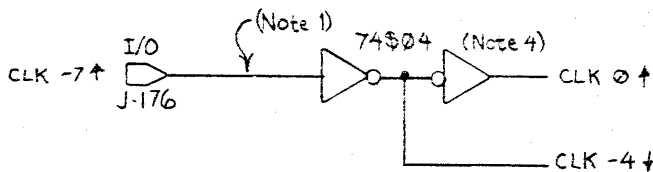
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MEMORY



CPU



Note 1: CONNECTIONS TO FINGER 176 (CLK-7 ↑) SHOULD BE ABSOLUTELY AS SHORT AS POSSIBLE.

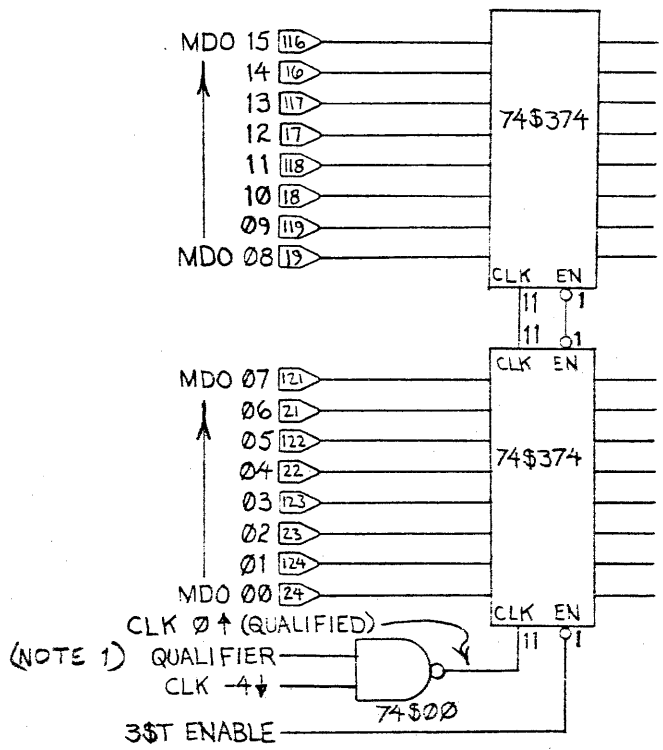
Note 2: FANOUT ON CLK-4 ↓ AND CLK 0 ↑ SHOULD BE LESS THAN 15 TTL LOADS

Note 3: CLK-7 ↑ SHOULD CARRY AS FEW LOADS AS POSSIBLE. (1 LOAD PER BOARD IS DESIREABLE.) THIS MAY BE WAIVED IN ORDER TO OBEY Note 2.

Note 4: GATES RECEIVING CLK-7 ↑ OR CLK-4 ↓ SHOULD BE SCHOTTKY INVERTING GATES. (74504, 74500 PREFERRED)

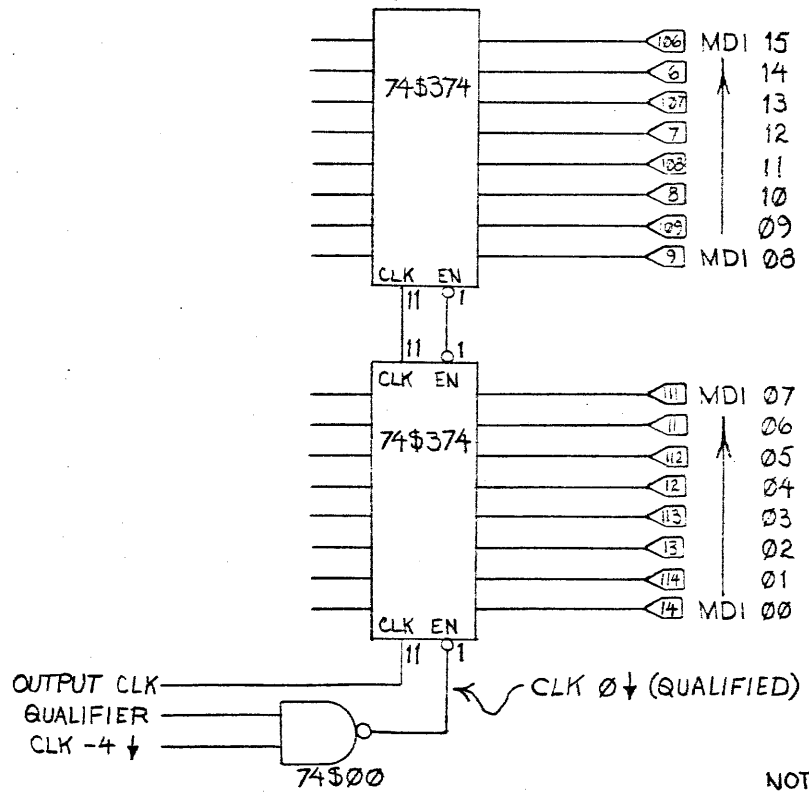
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TYPICAL CIRCUIT for CAPTURING DATA from MEMORY



- NOTES
1. QUALIFIER MAY BE ≡ TRUE
 2. SCHOTTKY PARTS ONLY

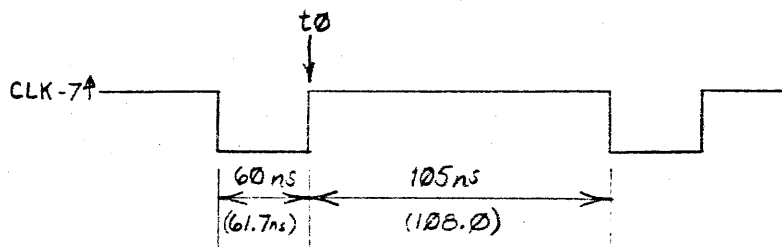
TYPICAL CIRCUIT for SENDING DATA to MEMORY



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NOTE: SCHOTTKY PARTS ONLY

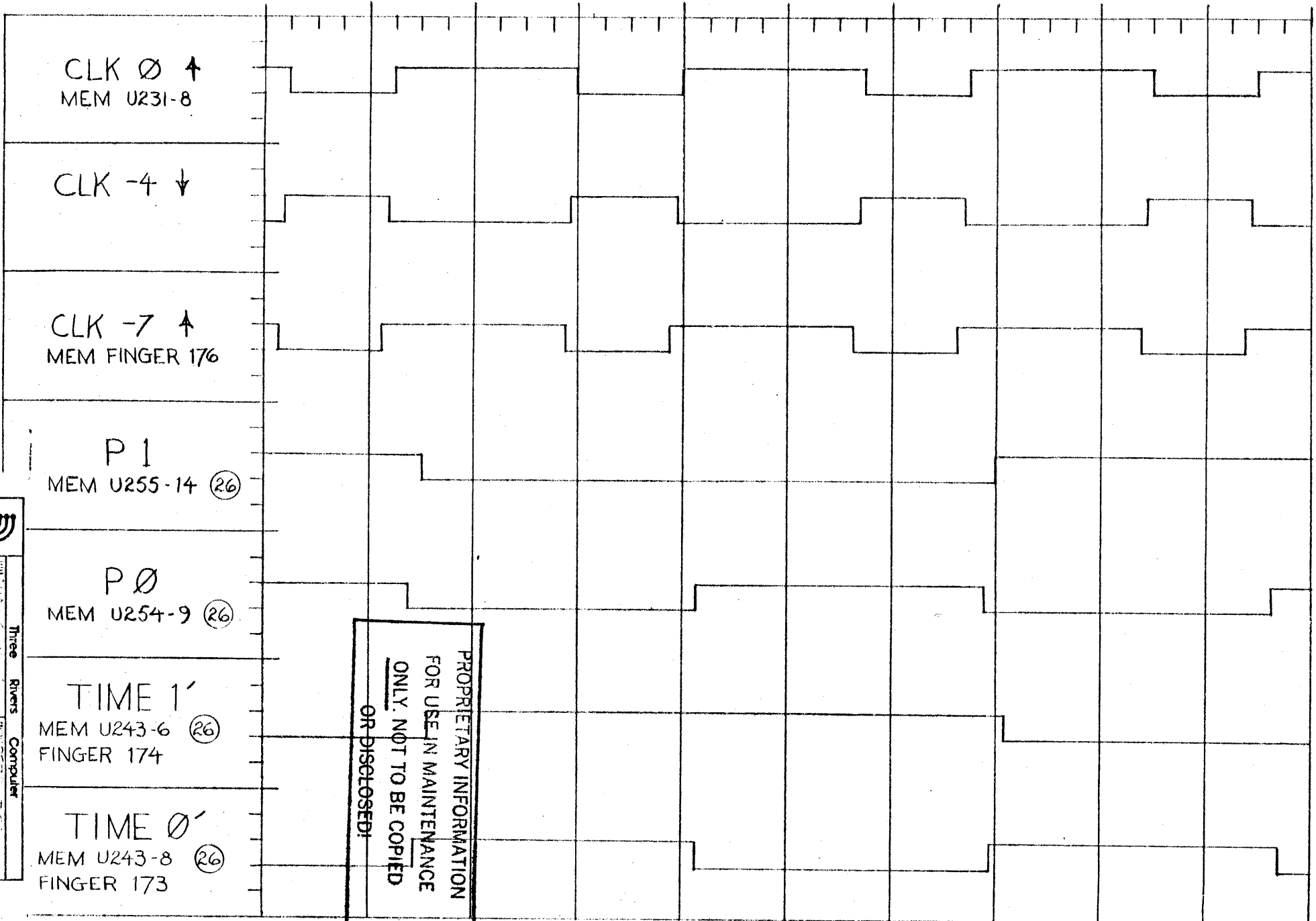
ACTUAL	FOR TIMING CALCULATIONS
VIDEO CLOCK $f = 64.78824 \text{ MHz}$ $\frac{1}{f} = T = 15.434 \text{ ns}$	15 ns
SYSTEM CLOCK $f = 5.89 \text{ MHz}$ $\frac{1}{f} = T = 169.78 \text{ ns}$	165 ns




NOTES:

1. CLOCK -7 Finger 176 MEMORY
2. USE ROUNDED VALUES for TIMING CALCULATIONS (15ns VID CLK; 165ns SYSTEM CLK) THIS ALLOWS MARGIN FOR CLOCK JITTER.

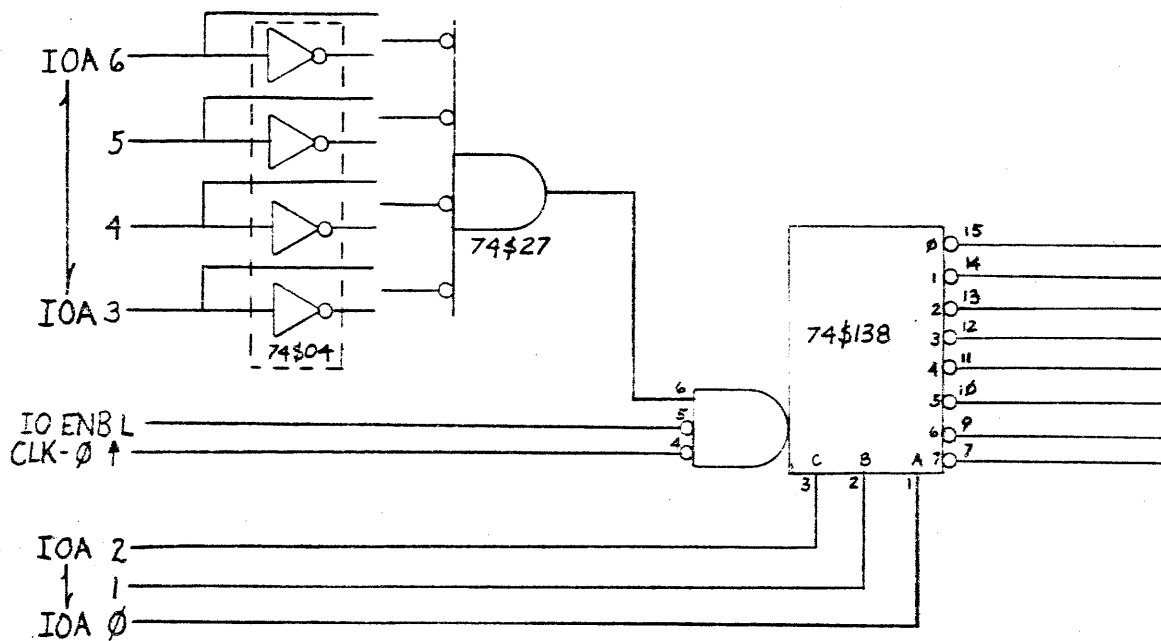
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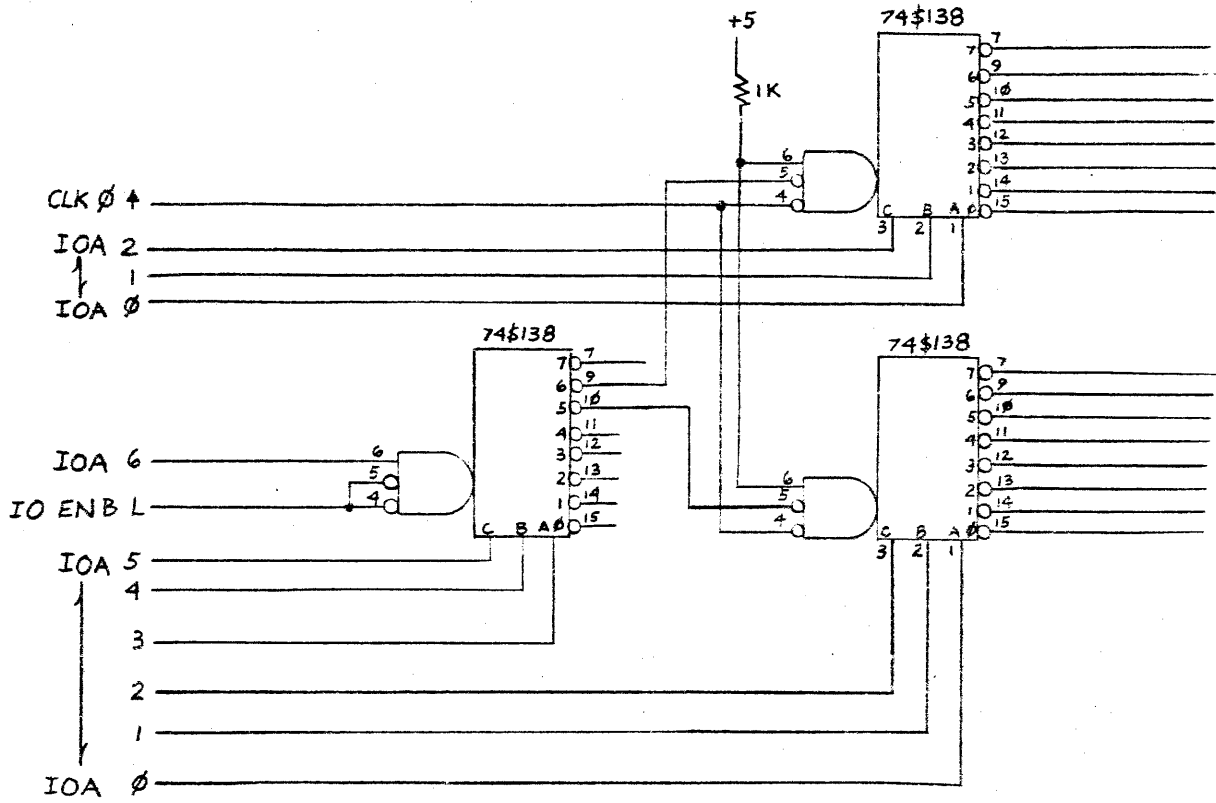
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 Three Rivers Computer

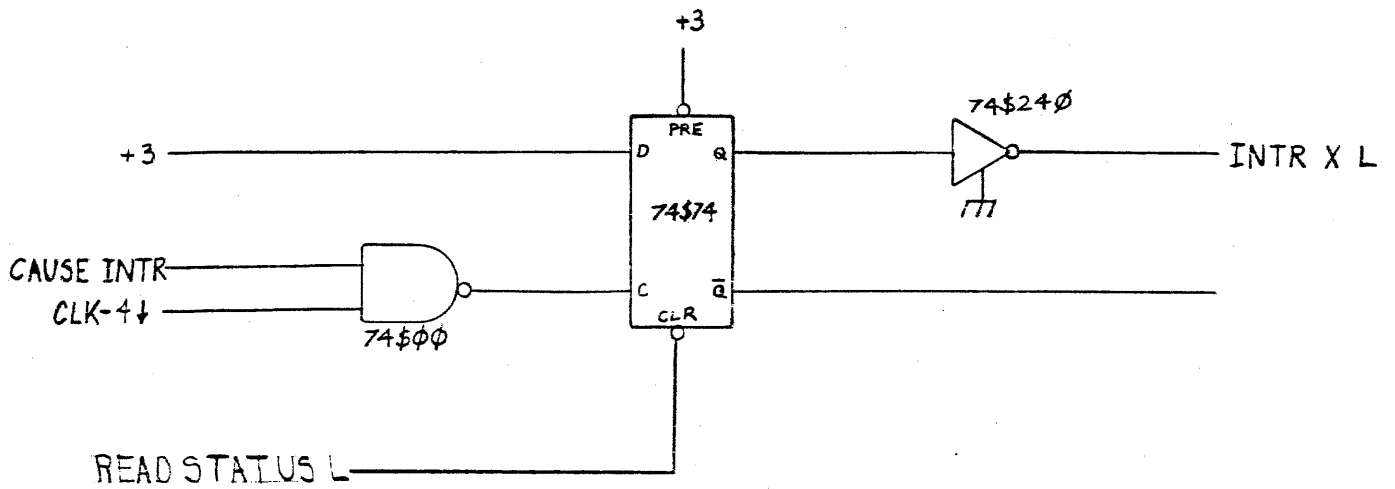
NOTE:
 SELECT CONNECTIONS NEEDED
 FOR PROPER DECODING.



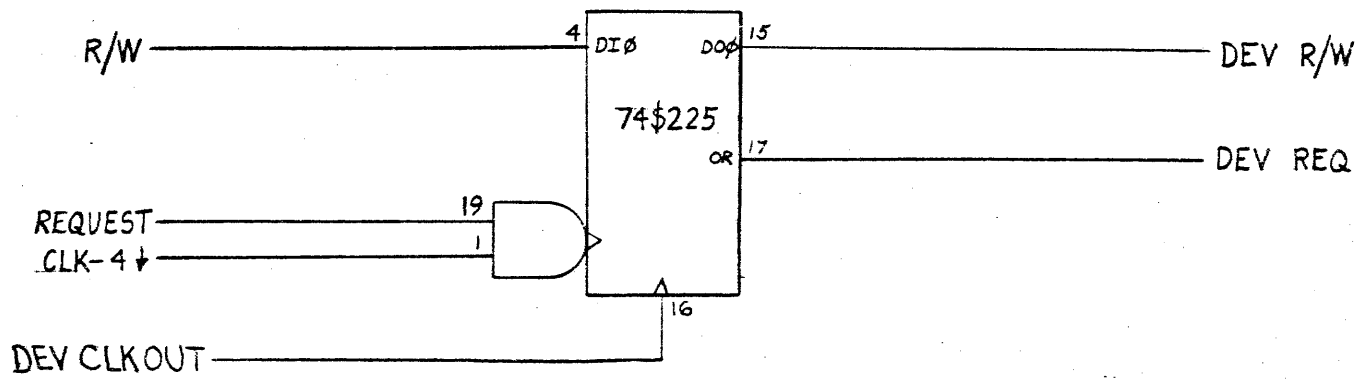
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