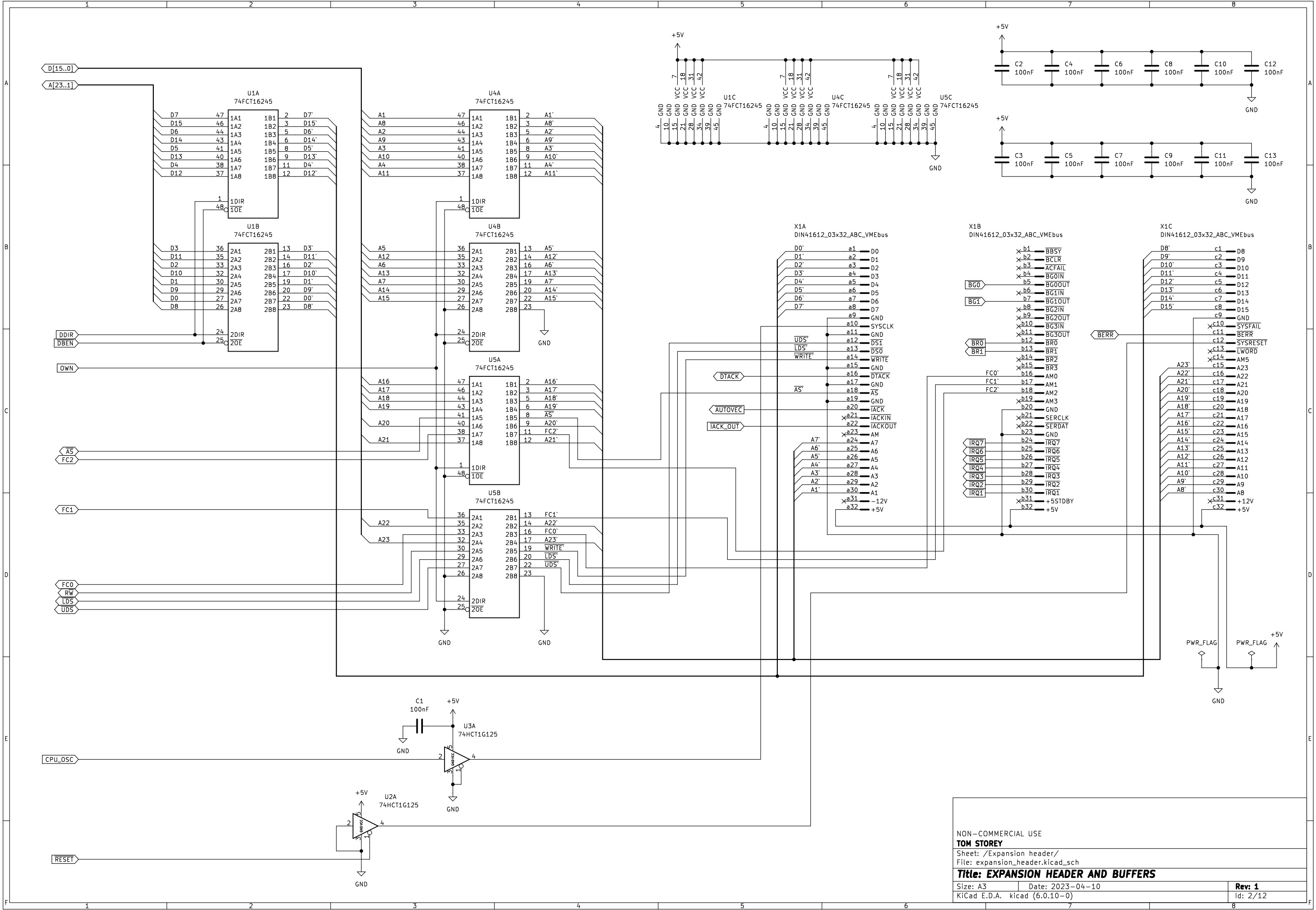
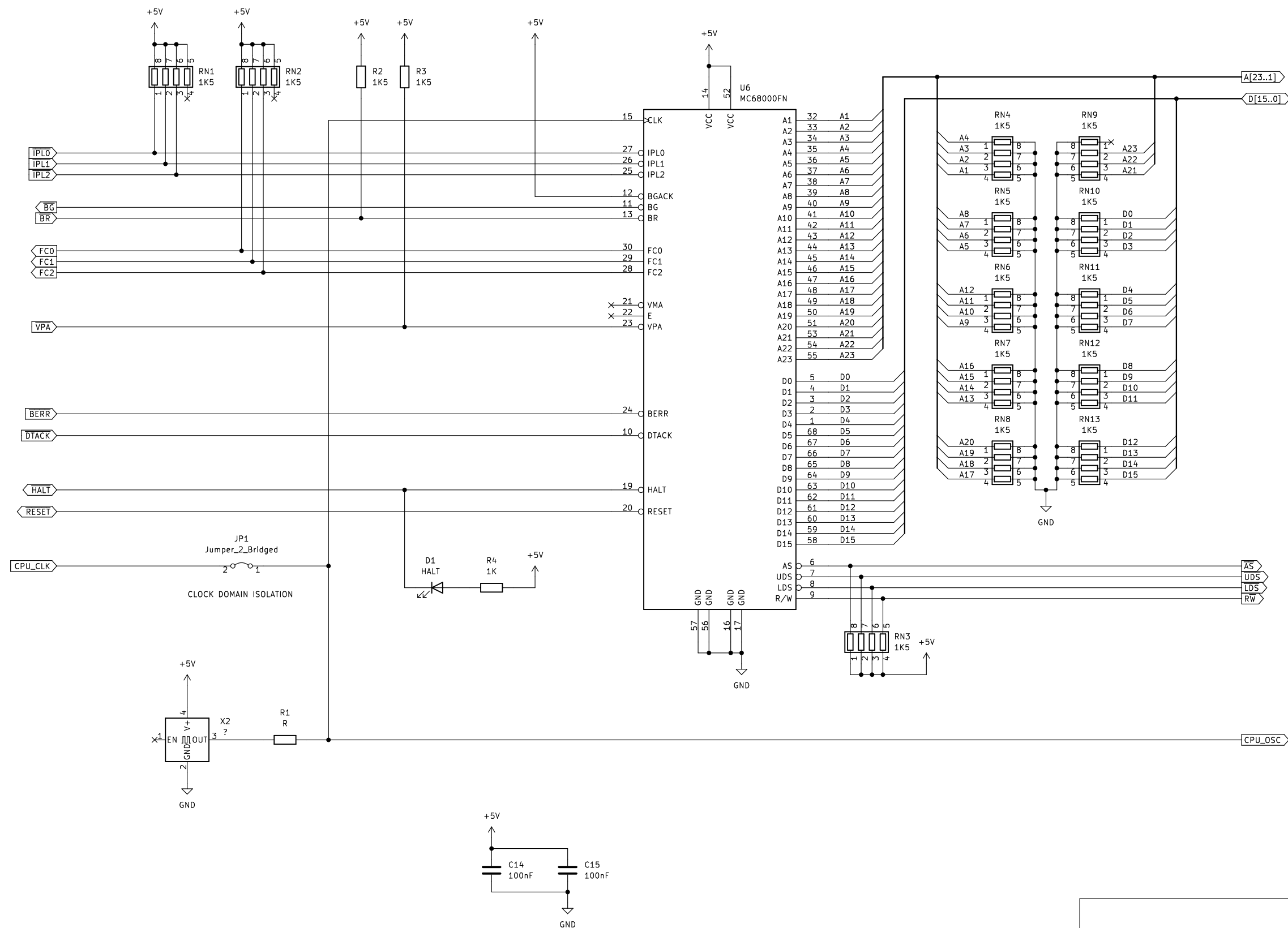
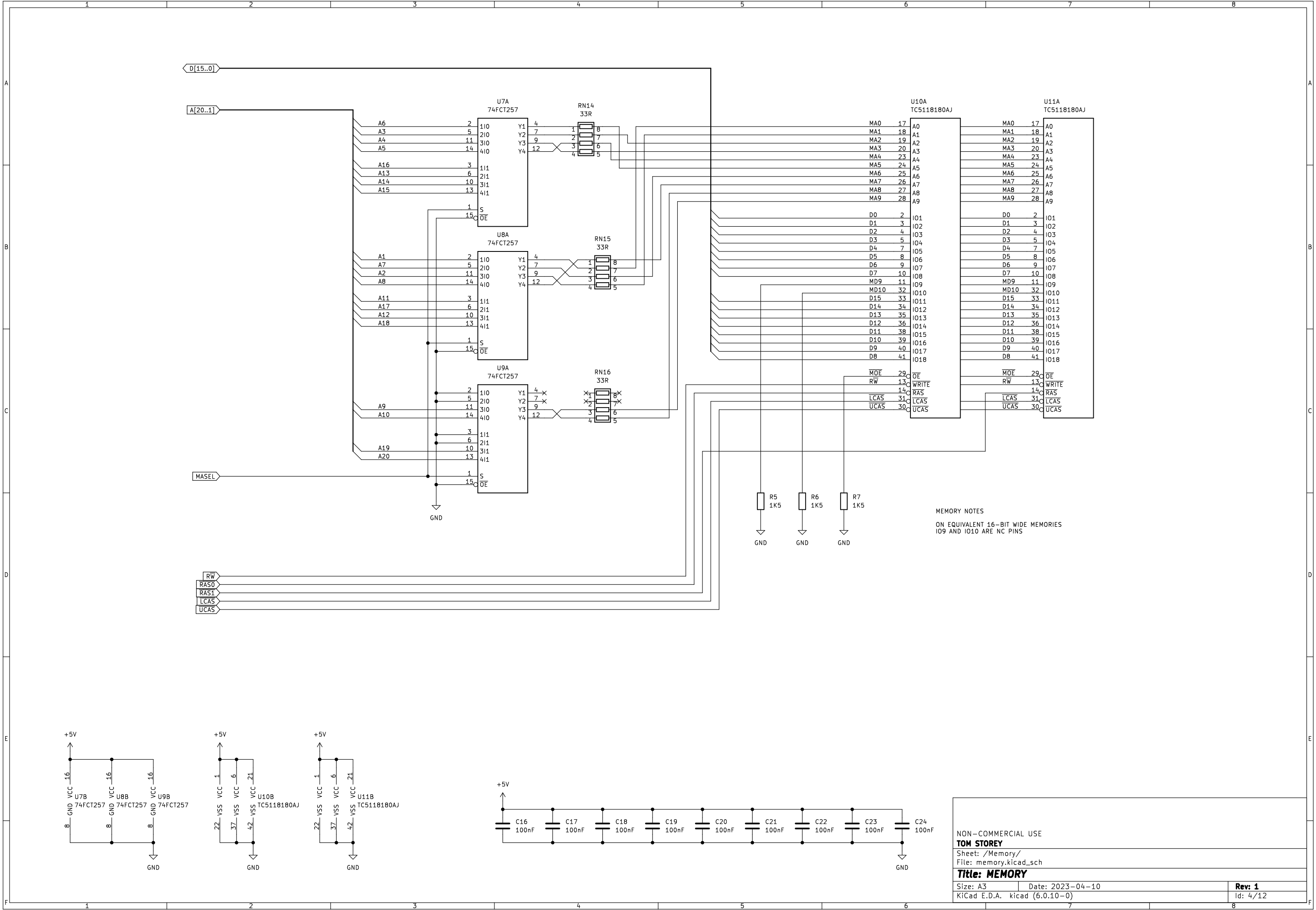
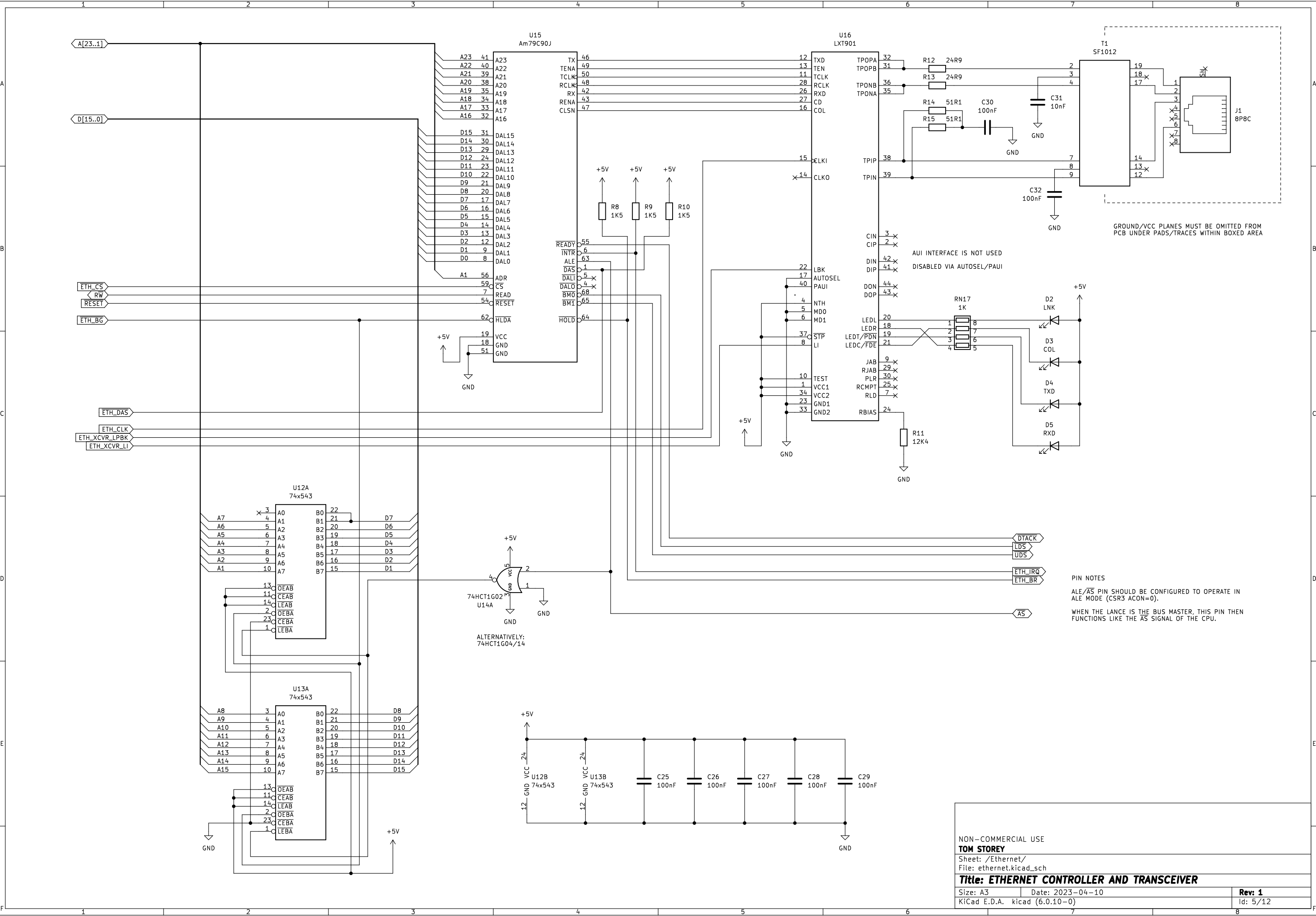


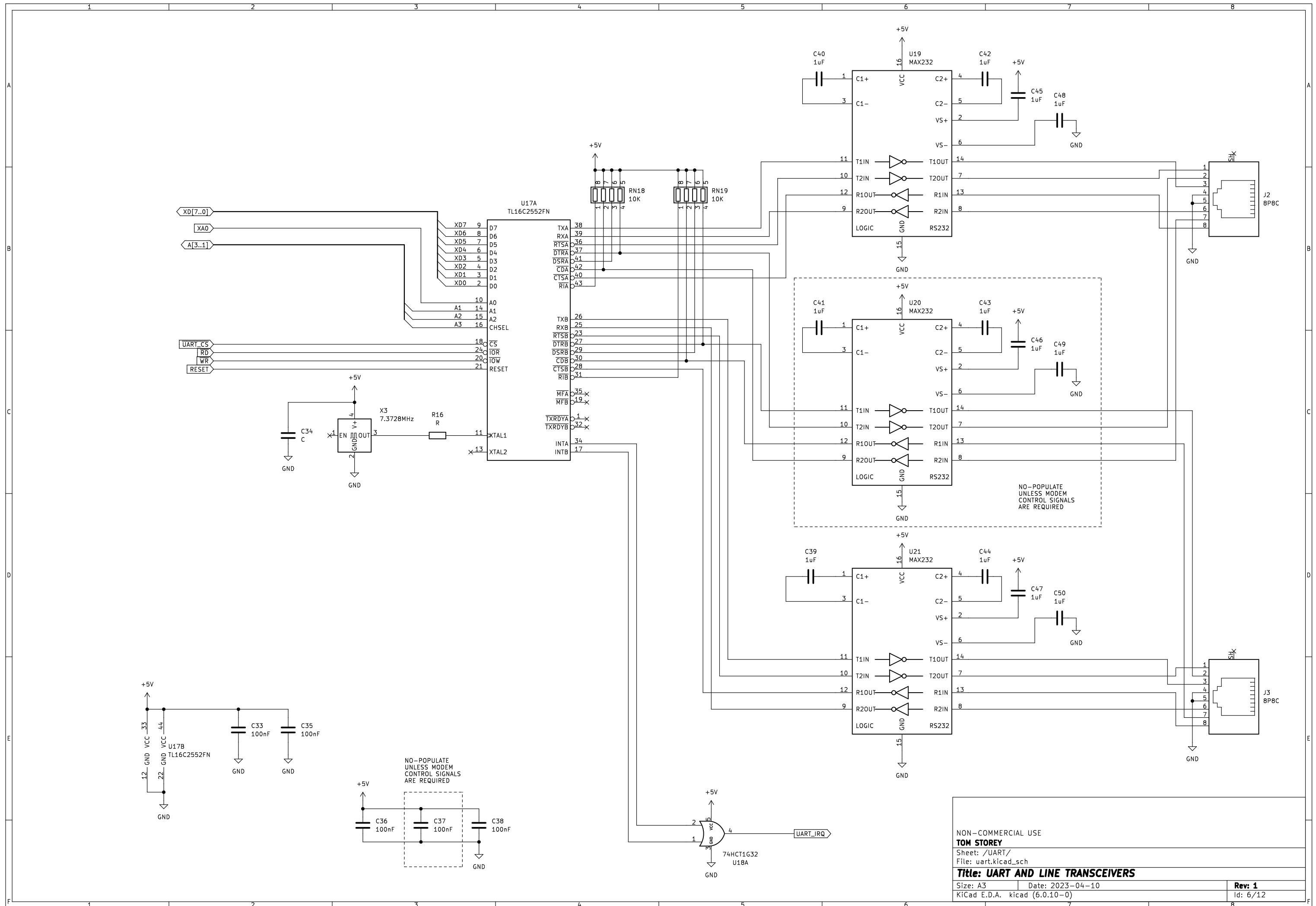
	1	2	3	4	5	6	7	8
A	<div>Expansion header</div> <div>File: expansion_header.kicad_sch</div>	<div>CPU</div> <div>File: cpu.kicad_sch</div>	<div>Memory</div> <div>File: memory.kicad_sch</div>	<div>Ethernet</div> <div>File: ethernet.kicad_sch</div>	<div>UART</div> <div>File: uart.kicad_sch</div>	<div>Timer & RTC</div> <div>File: timer_rtc.kicad_sch</div>		
B	<div>Reset</div> <div>File: reset.kicad_sch</div>	<div>CPLD</div> <div>File: cpld.kicad_sch</div>	<div>Onboard IO</div> <div>File: onboard_io.kicad_sch</div>	<div>X busses</div> <div>File: xbusses.kicad_sch</div>	<div>ROM</div> <div>File: rom.kicad_sch</div>			
C								
D								
E								
F								

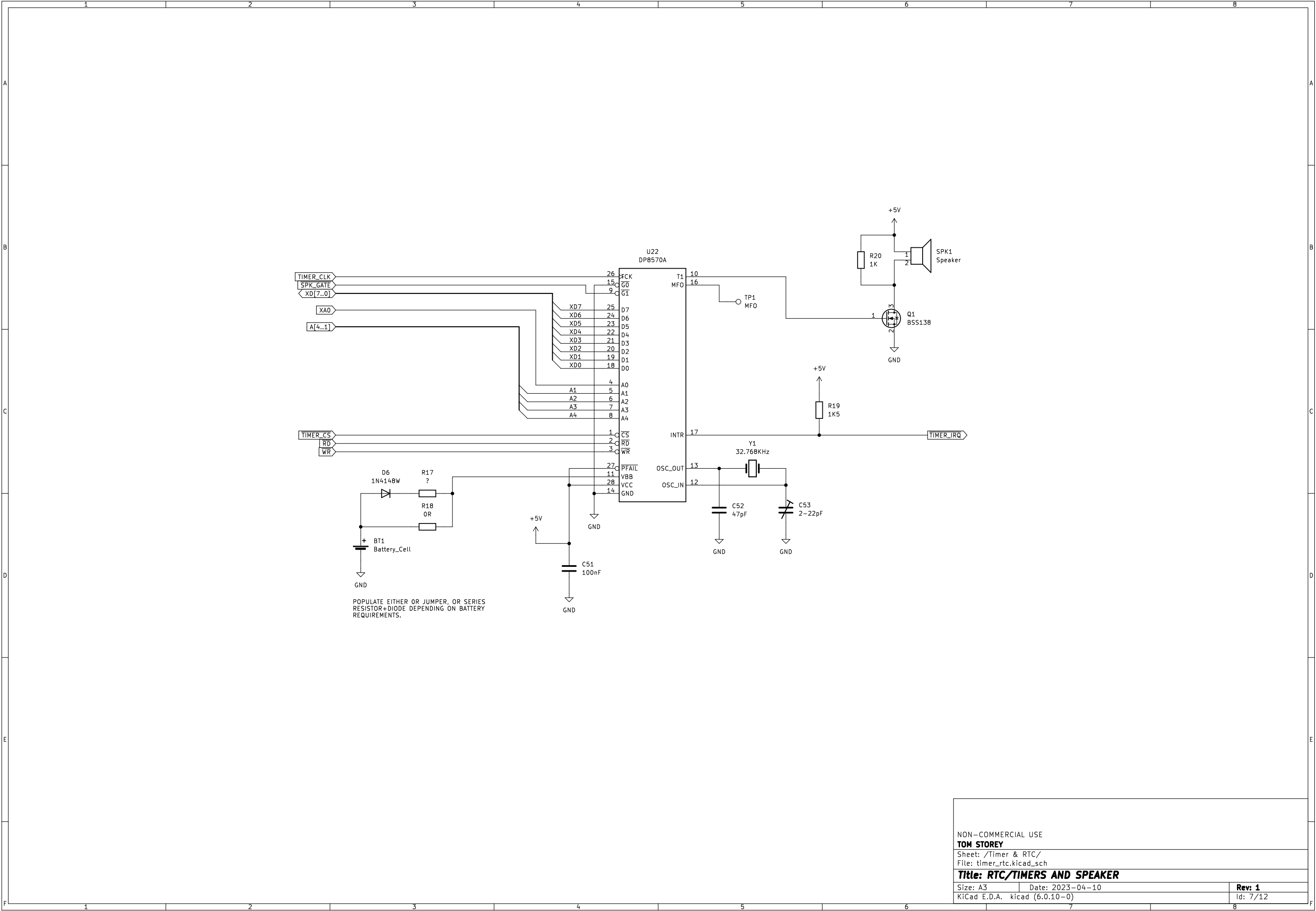


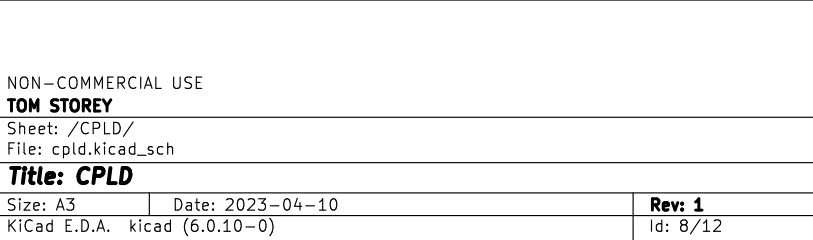












IO DECODE SUMMARY

OFFSET	WRITE	READ	FUNCTION
0	X		WRITE CONTROL REGISTER 1
0		X	READ CONTROL REGISTER 1
1	X		WRITE CONTROL REGISTER 2
1		X	READ CONTROL REGISTER 2
2		X	WATCHDOG TIMER RESET
3		X	SOFTWARE RESET (IF ENABLED VIA CR 2)

CONTROL REGISTER 1

RW-x	RW-x	RW-x	RW-x	RW-x	RW-x	RW-x	RW-x
		ETH_LI	ETH_LPBK	LED_D	LED_C	LED_B	LED_A
BIT 7							BIT 0

BIT 5 ETH_LI: ETHERNET LINK INTEGRITY TEST
1 = LINK INTEGRITY TEST ENABLED
0 = LINK INTEGRITY TEST DISABLED

BIT 2 LED_C: LED C CONTROL
1 = LED OFF
0 = LED ON

BIT 4 ETH_LPBK: ETHERNET LOOPBACK
1 = LOOPBACK ENABLED
0 = LOOPBACK DISABLED

BIT 1 LED_B: LED B CONTROL
1 = LED OFF
0 = LED ON

BIT 3 LED_D: LED D CONTROL
1 = LED OFF
0 = LED ON

BIT 0 LED_A: LED A CONTROL
1 = LED OFF
0 = LED ON

CONTROL REGISTER 2

R-1	R-0	RW-0	RW-0	R-x	R-x	R-x	R-x
POR	WDTO	SOFT_RST_EN	WDT_EN	CONFIG3	CONFIG2	CONFIG1	CONFIG0
BIT 7							BIT 0

BIT 7 POR: POWER ON RESET FLAG (1)(3)
1 = POWER ON RESET OCCURRED
0 = NORMAL RESET

BIT 4 WDT_EN: WATCHDOG TIMER ENABLE (4)
1 = WATCHDOG IS ENABLED
0 = WATCHDOG IS DISABLED

BIT 6 WDTO: WATCHDOG TIMEOUT FLAG (2)(3)
1 = WATCHDOG TIMEOUT CAUSED RESTART
0 = NORMAL RESET

BIT 3-0 CONFIG3..0: CONFIGURATION JUMPERS
1 = OPEN, JUMPER NOT INSTALLED
0 = CLOSED, JUMPER INSTALLED

BIT 5 SOFT_RST_EN: SOFTWARE RESET ENABLE (4)
1 = SOFTWARE RESET MAY BE PERFORMED
0 = SOFTWARE RESET IS INHIBITED

NOTE 1: BIT IS SET DURING POWER UP, OR BROWNOUT IF VOLTAGE DROPS TO 4V OR LESS.
NOTE 2: BIT IS SET IN THE EVENT OF A WATCHDOG TIMEOUT. BIT IS CLEARED BY POR OR BROWNOUT.
NOTE 3: BIT IS CLEARED AFTER CONTROL REGISTER 2 IS READ.
NOTE 4: BIT IS CLEARED FOLLOWING ANY RESET CAUSE.

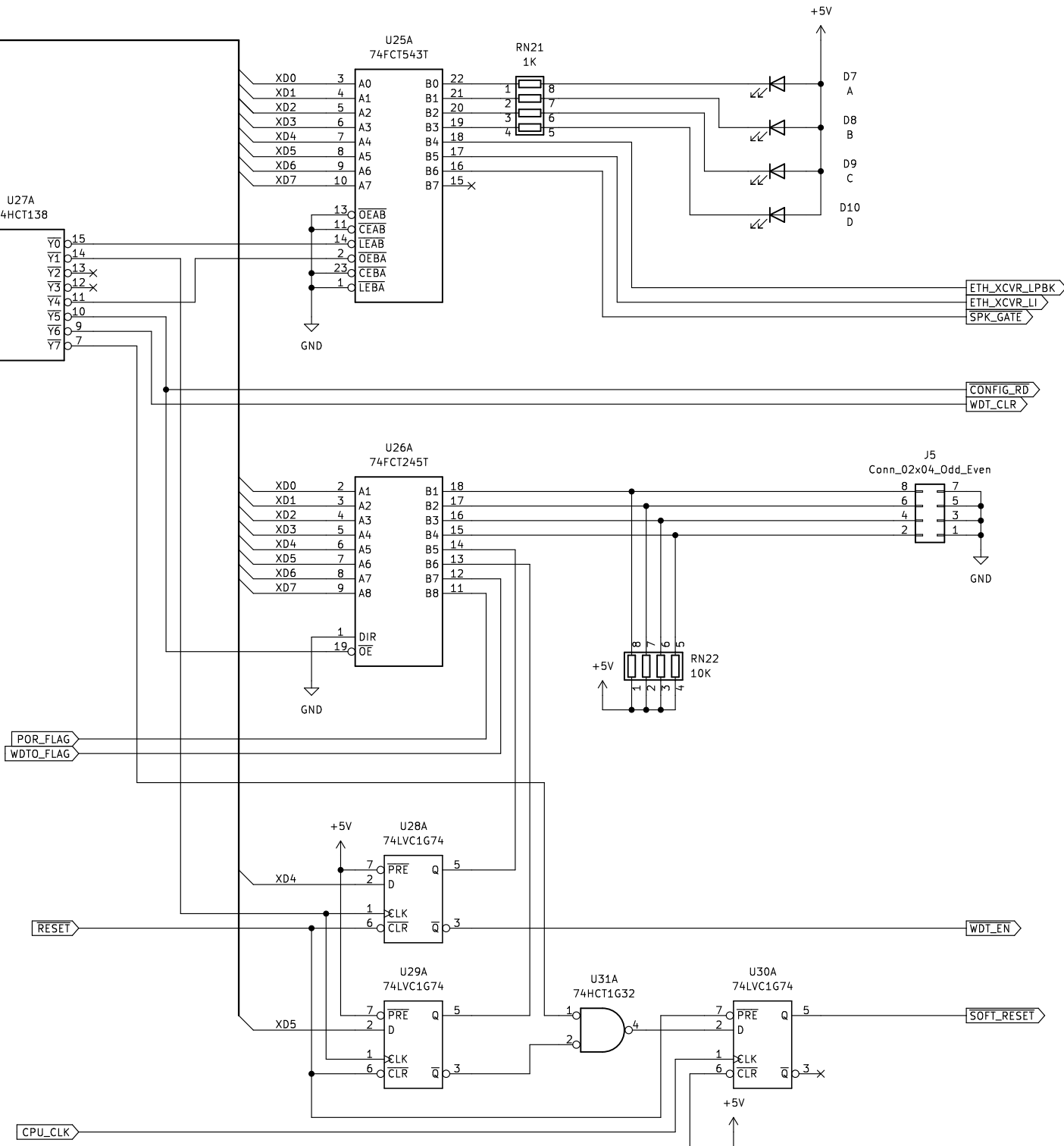
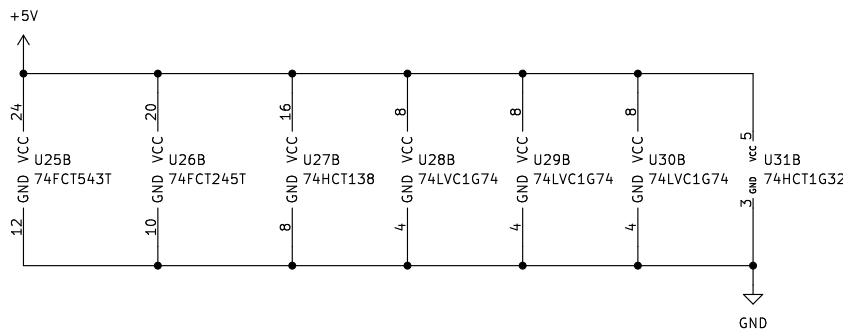
LEGEND:

R = READABLE BIT
-n = VALUE AT POR

W = WRITABLE BIT
1 = BIT IS SET

U = UNIMPLEMENTED BIT
0 = BIT IS CLEARED

x = BIT IS UNKNOWN



NON-COMMERCIAL USE

TOM STOREY

Sheet: /Onboard IO/

File: onboard_io.kicad_sch

Title: ON-BOARD I/O PORTS

Size: A3

Date: 2023-04-10

Rev: 1

KiCad E.D.A. kicad (6.0.10-0)

Id: 9/12

