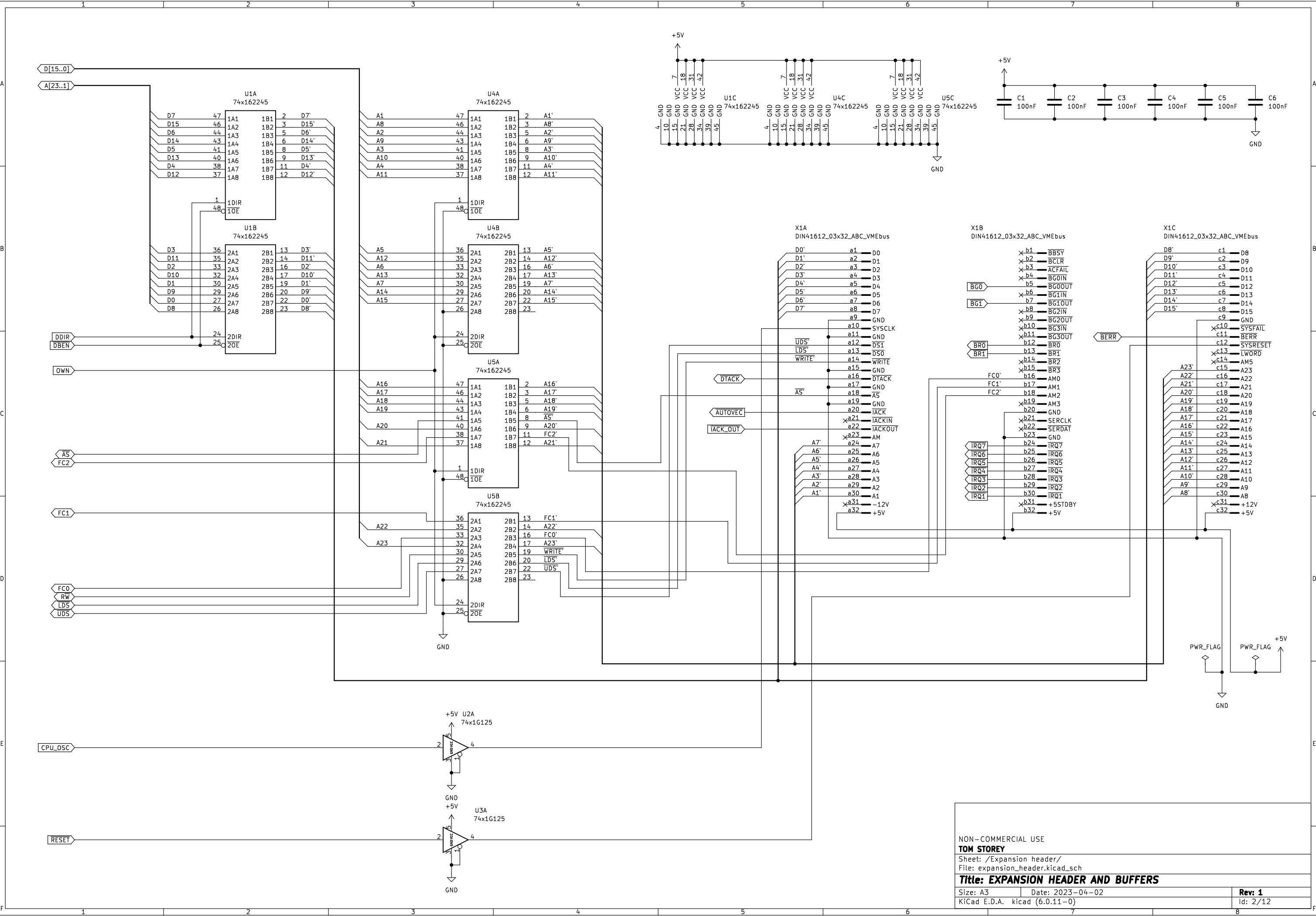
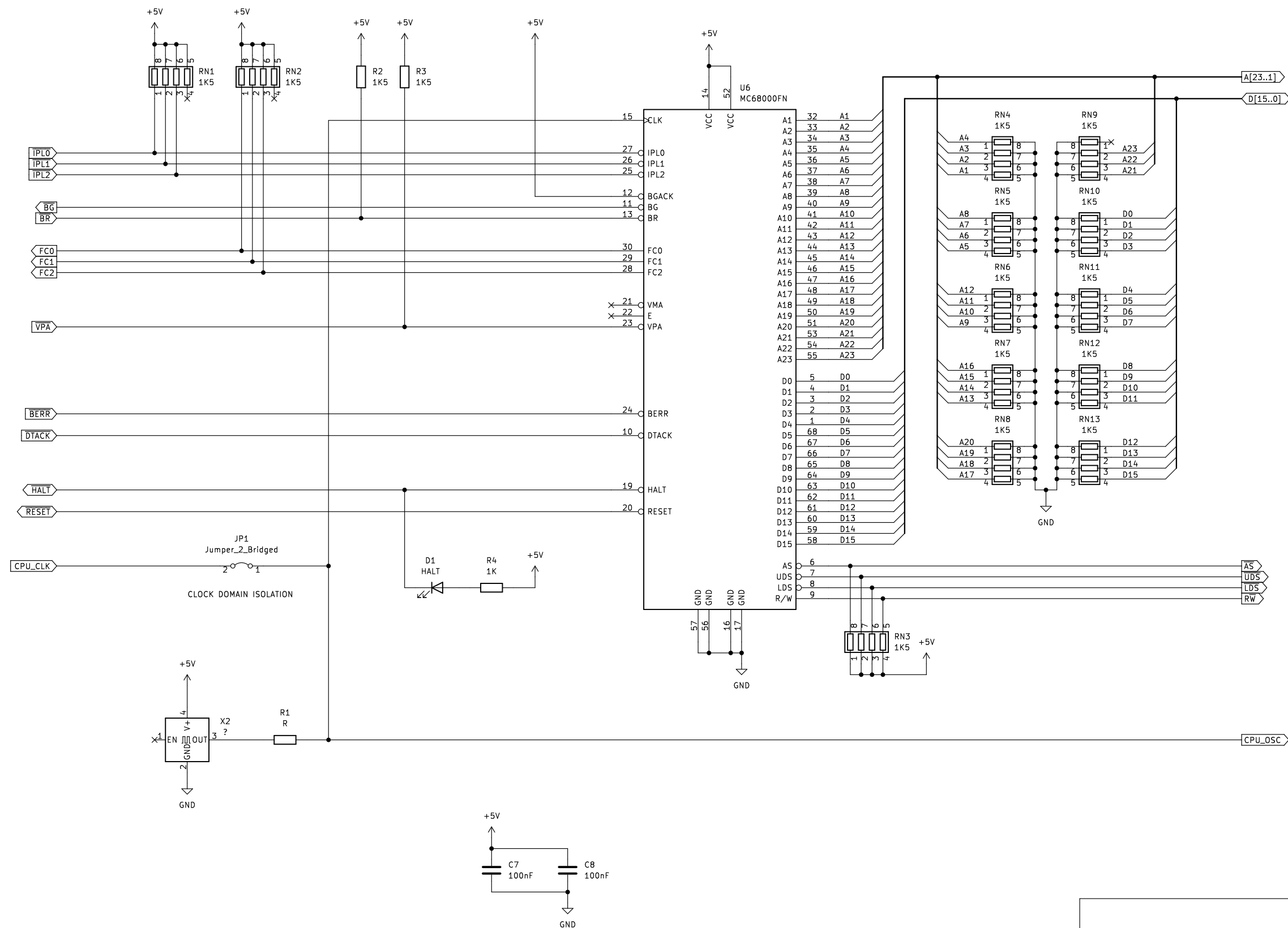
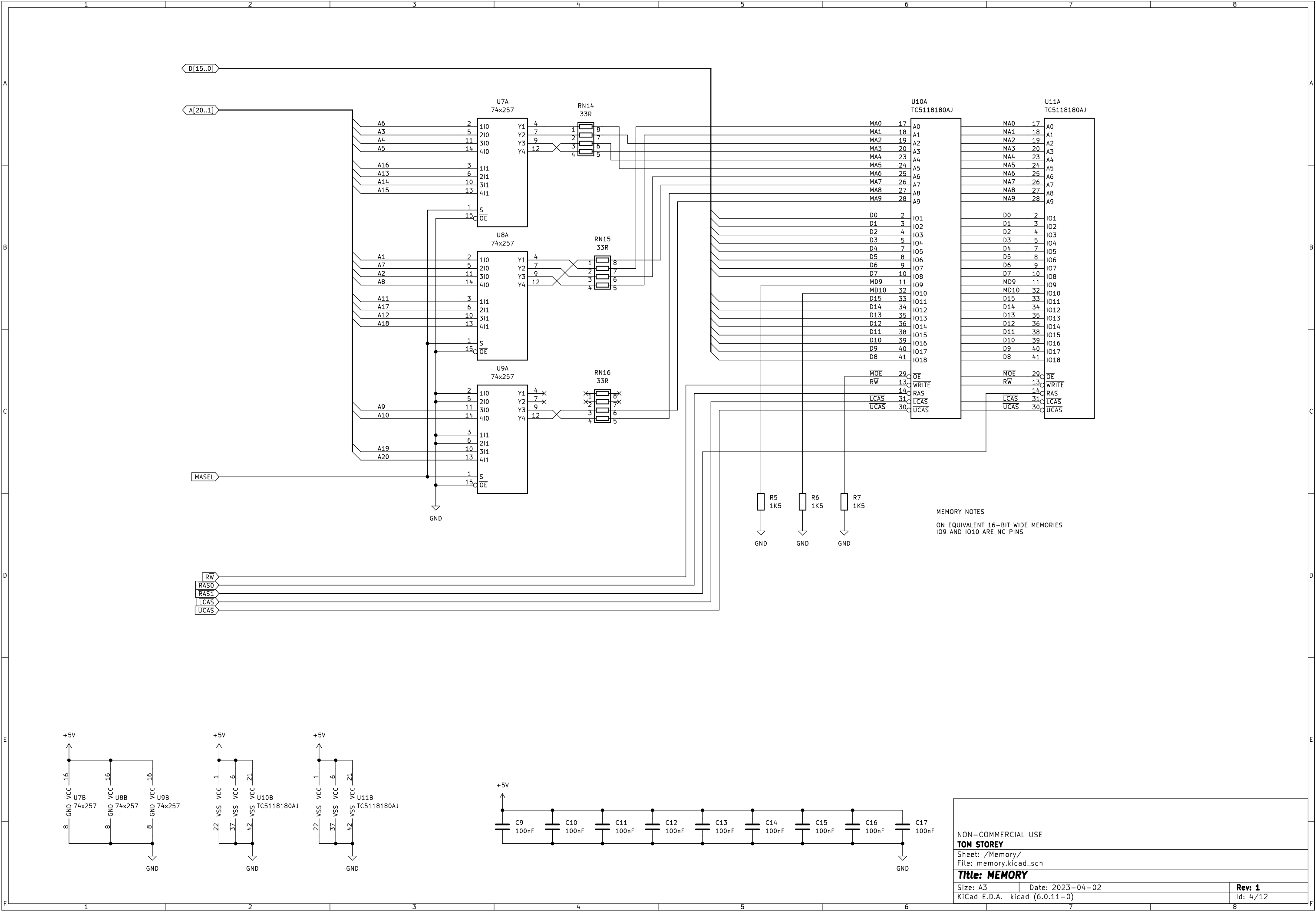


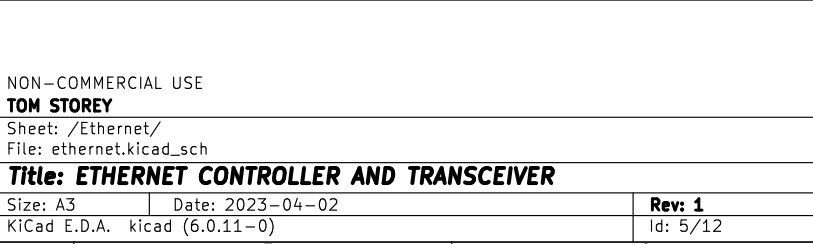
	1	2	3	4	5	6	7	8
A	<div>Expansion header</div> <div>File: expansion_header.kicad_sch</div>	<div>CPU</div> <div>File: cpu.kicad_sch</div>	<div>Memory</div> <div>File: memory.kicad_sch</div>	<div>Ethernet</div> <div>File: ethernet.kicad_sch</div>	<div>UART</div> <div>File: uart.kicad_sch</div>	<div>Timer &amp; 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								

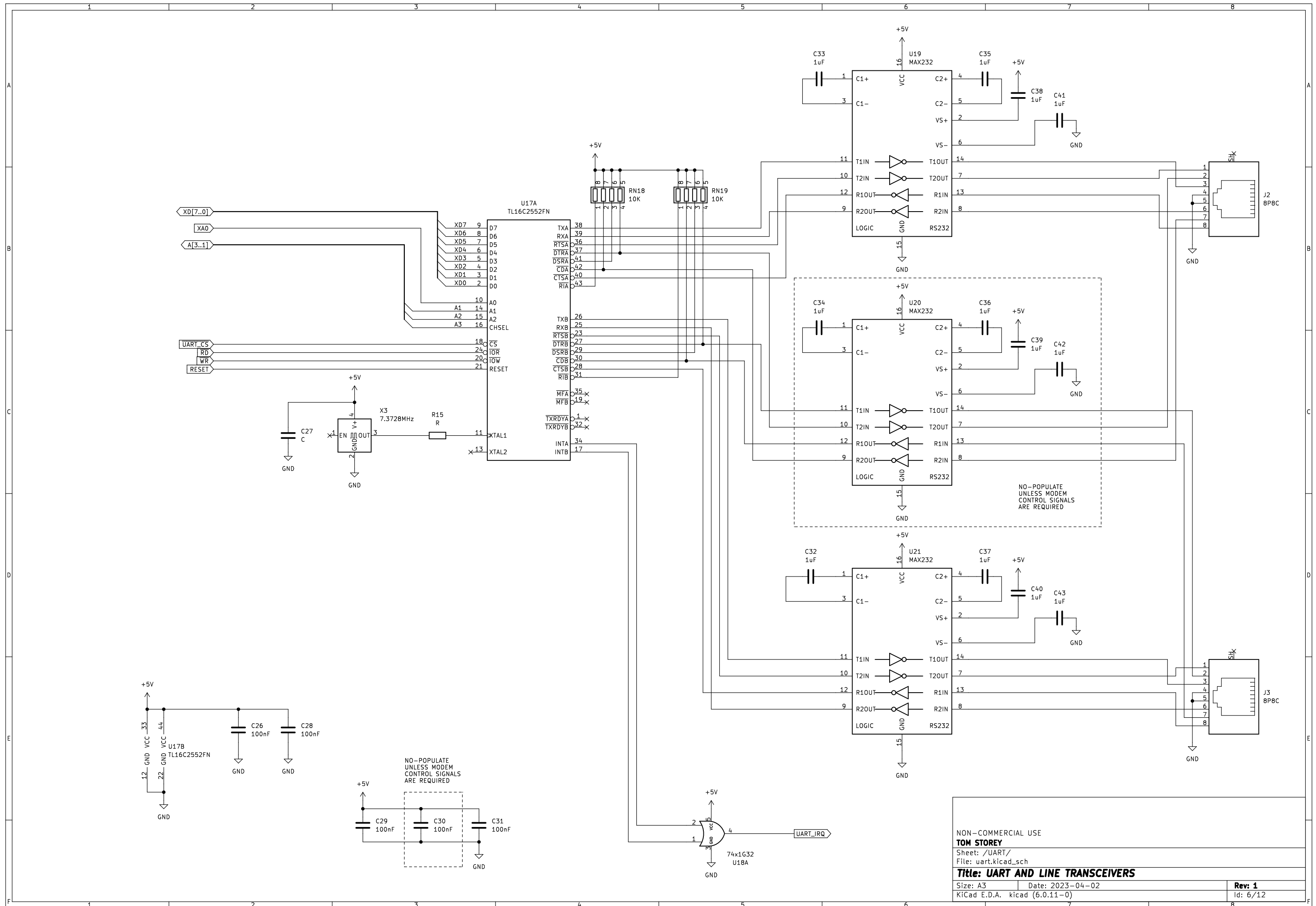
NON-COMMERCIAL USE		
TOM STOREY		
Sheet: /		
File: COMET68k.kicad_sch		
Title: COMET68k		
Size: A3	Date: 2023-04-02	Rev: 1
KiCad E.D.A. kicad (6.0.11-0)	Id: 1/12	











NON-COMMERCIAL USE

**TOM STOREY**

Sheet: /Timer & RTC/  
File: timer\_rtc.kicad\_sch

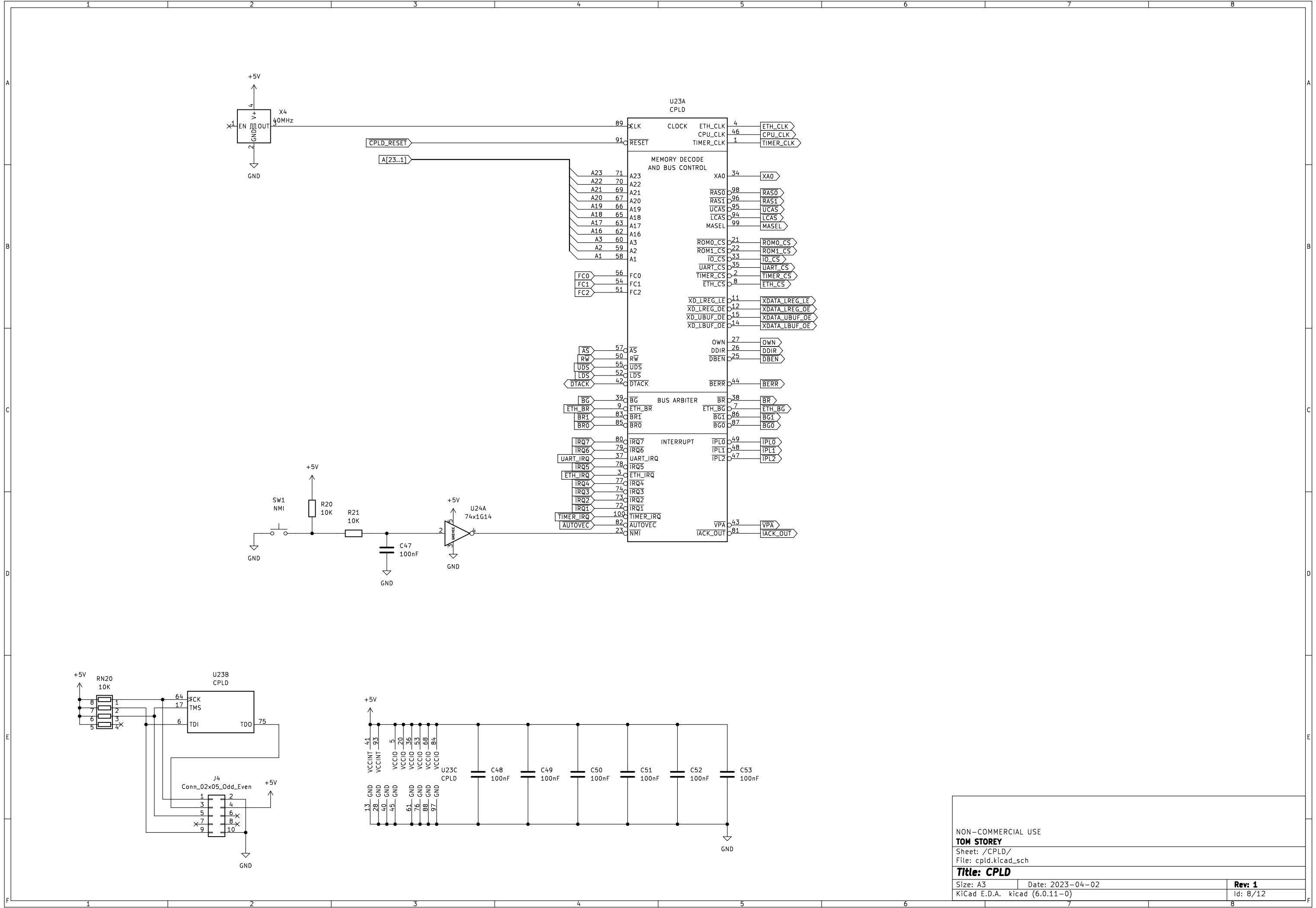
**Title: RTC/TIMERS AND SPEAKER**

Size: A3	Date: 2023-04-02
----------	------------------

KiCad E.D.A. kicad (6.0.11-0)

Rev: 1

Id: 7/12





## 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.

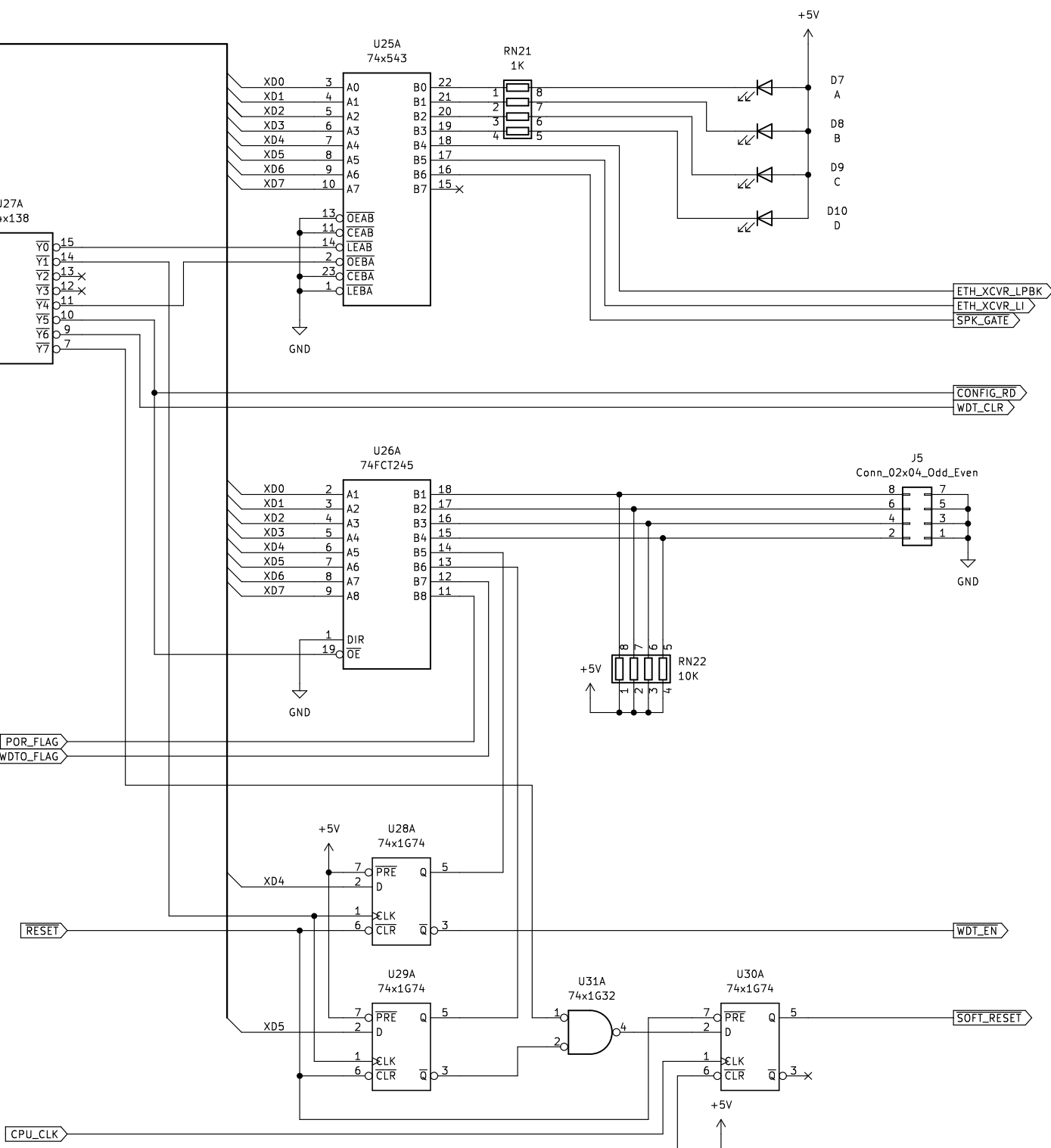
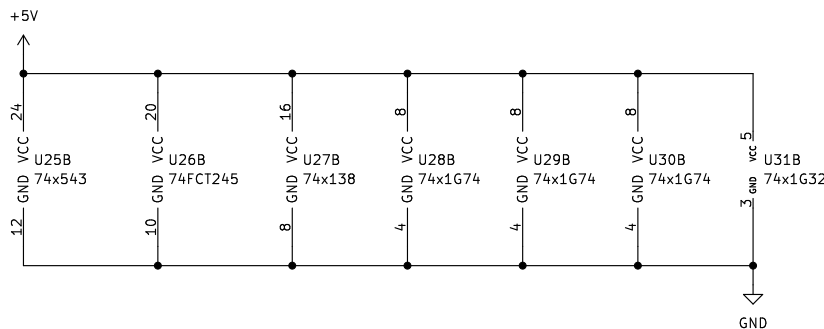
## LEGEND:

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

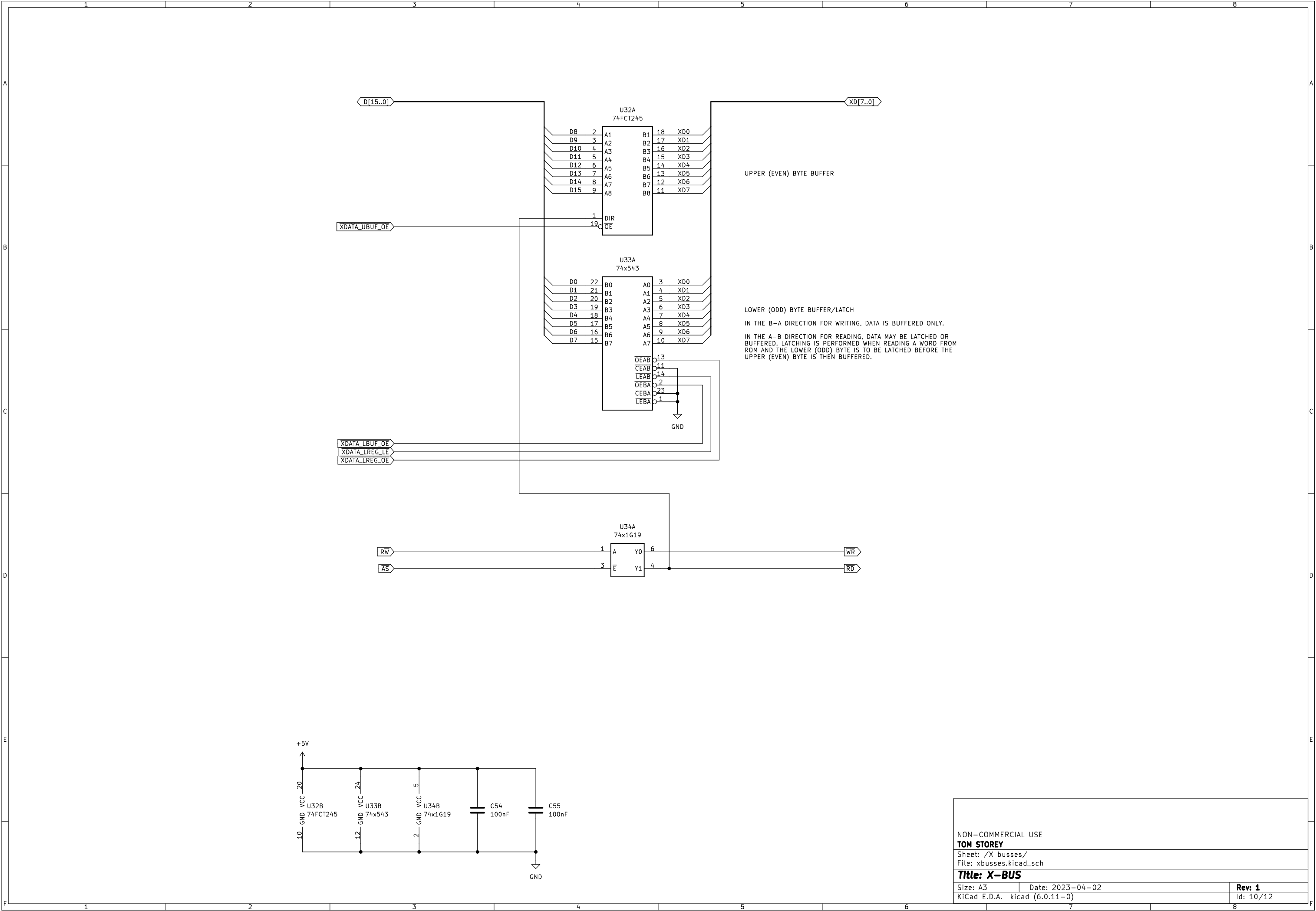
Size: A3

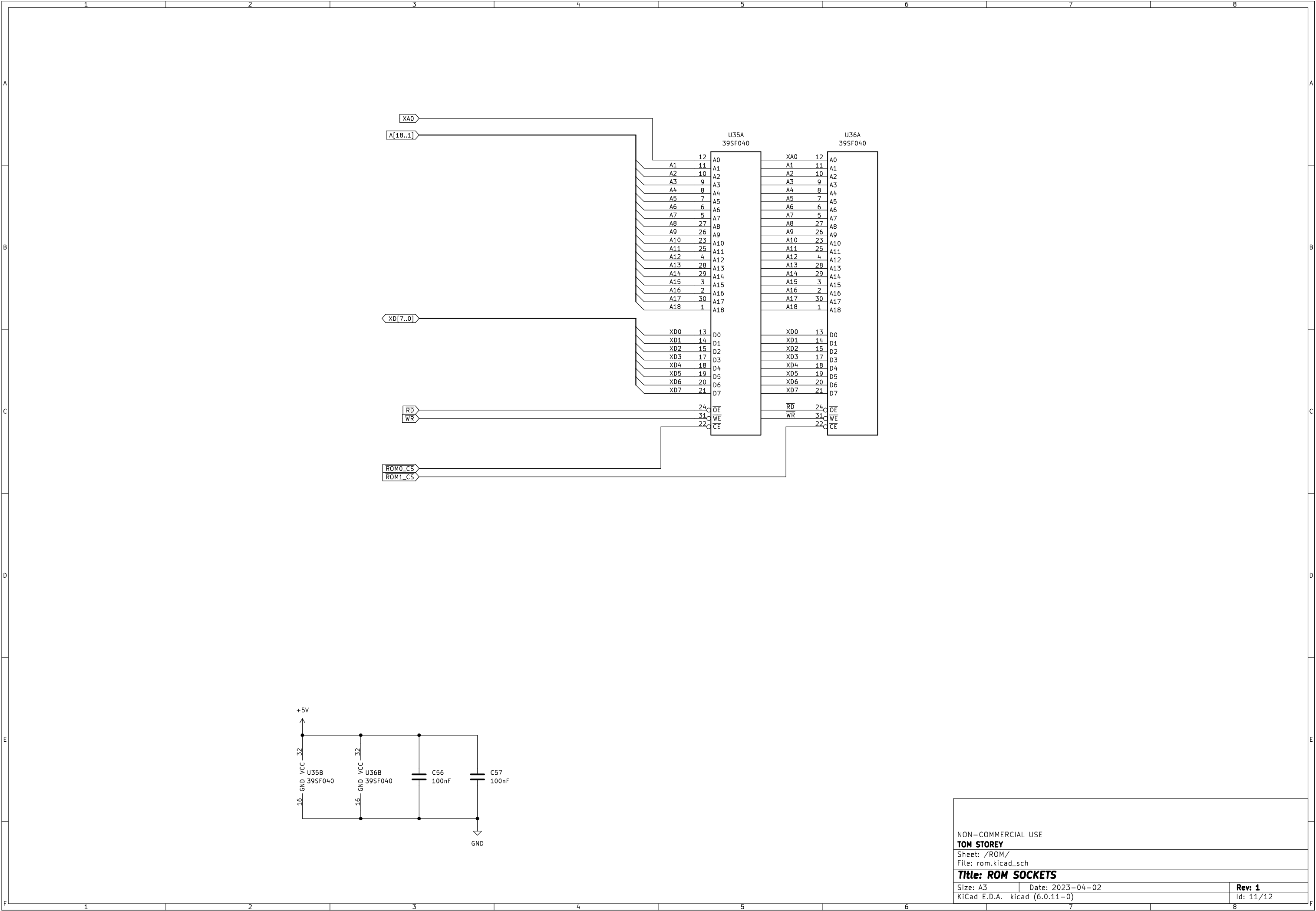
Date: 2023-04-02

Rev: 1

KiCad E.D.A. kicad (6.0.11-0)

Id: 9/12





NON-COMMERCIAL USE

TOM STOREY

Sheet: /ROM/

File: rom.kicad\_sch

Title: ROM SOCKETS

Size: A3

Date: 2023-04-02

Rev: 1

KiCad E.D.A. kicad (6.0.11-0)

Id: 11/12

