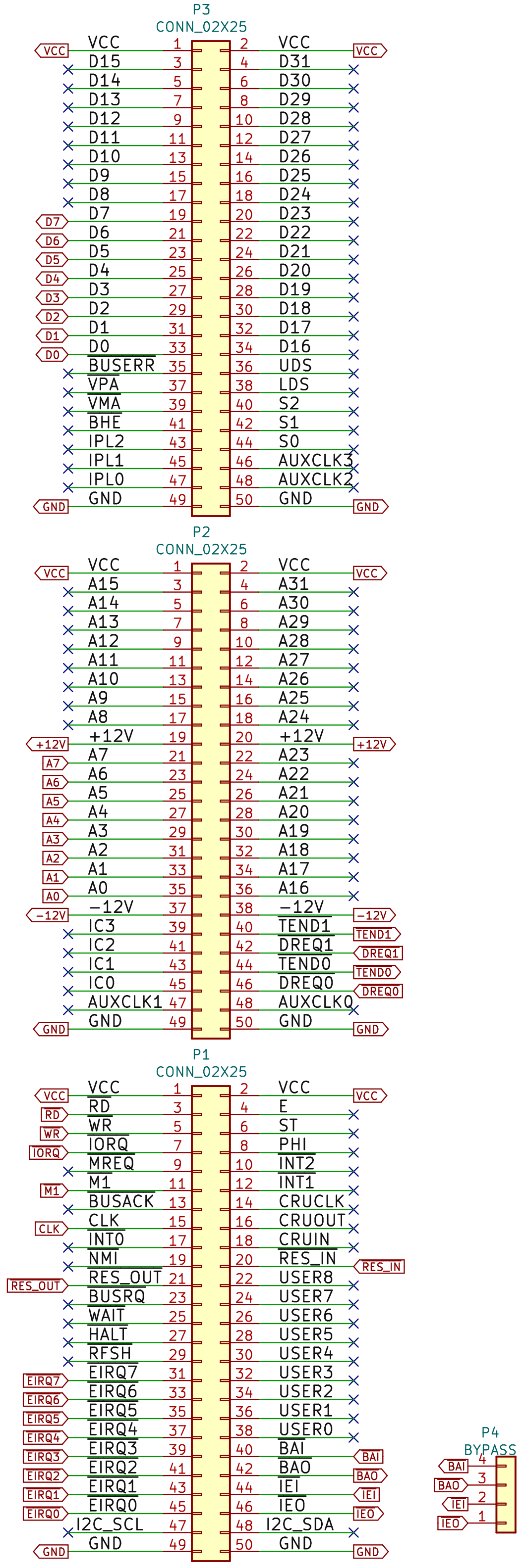
Sheet: /
File: input-output.Disk.kicad_sch

Title:

Size: B
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 1/9



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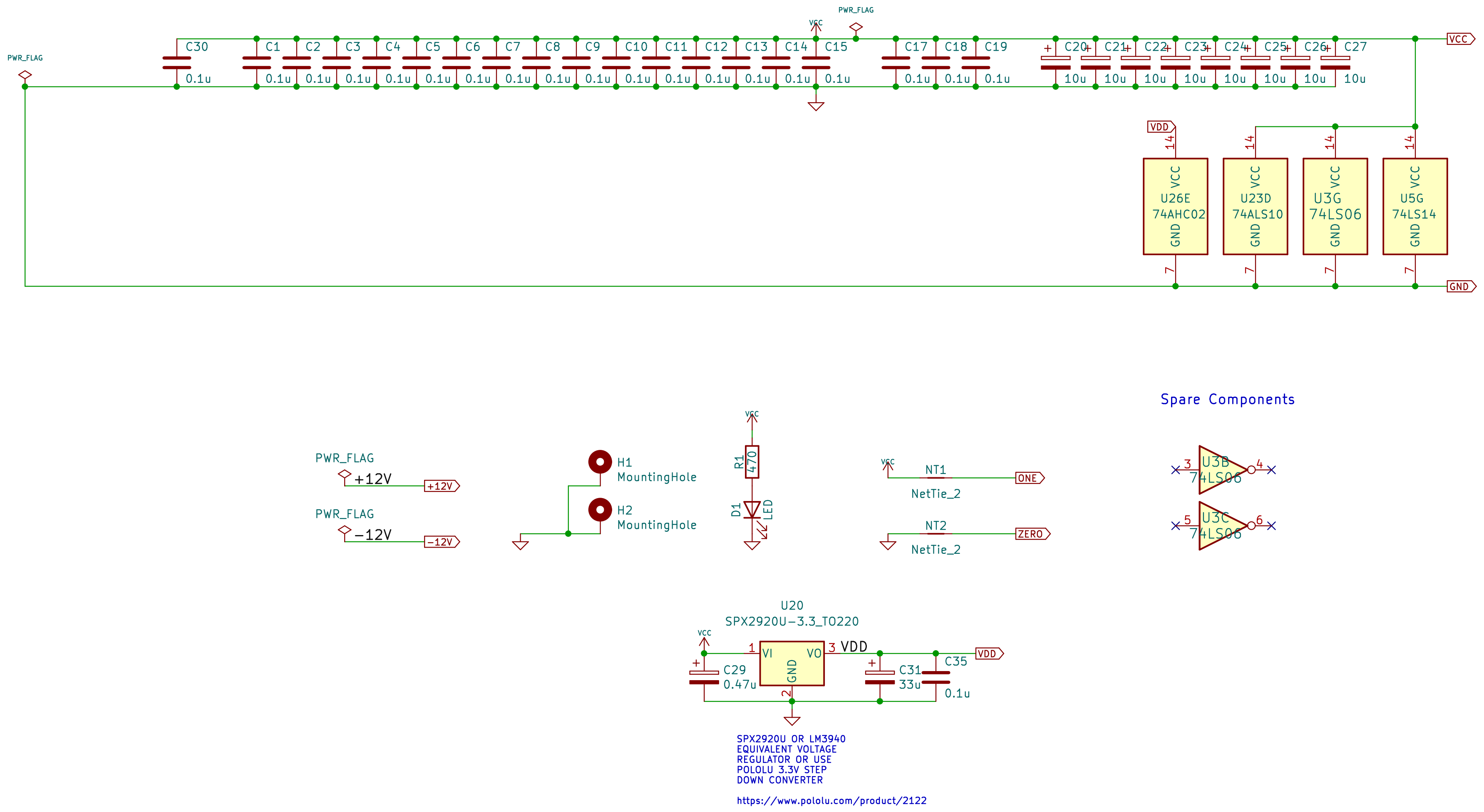
File: bus.kicad_sch

Title:

Size: B	Date:	Rev:
KiCad E.D.A. kicad (6.0.11)		Id: 2/9



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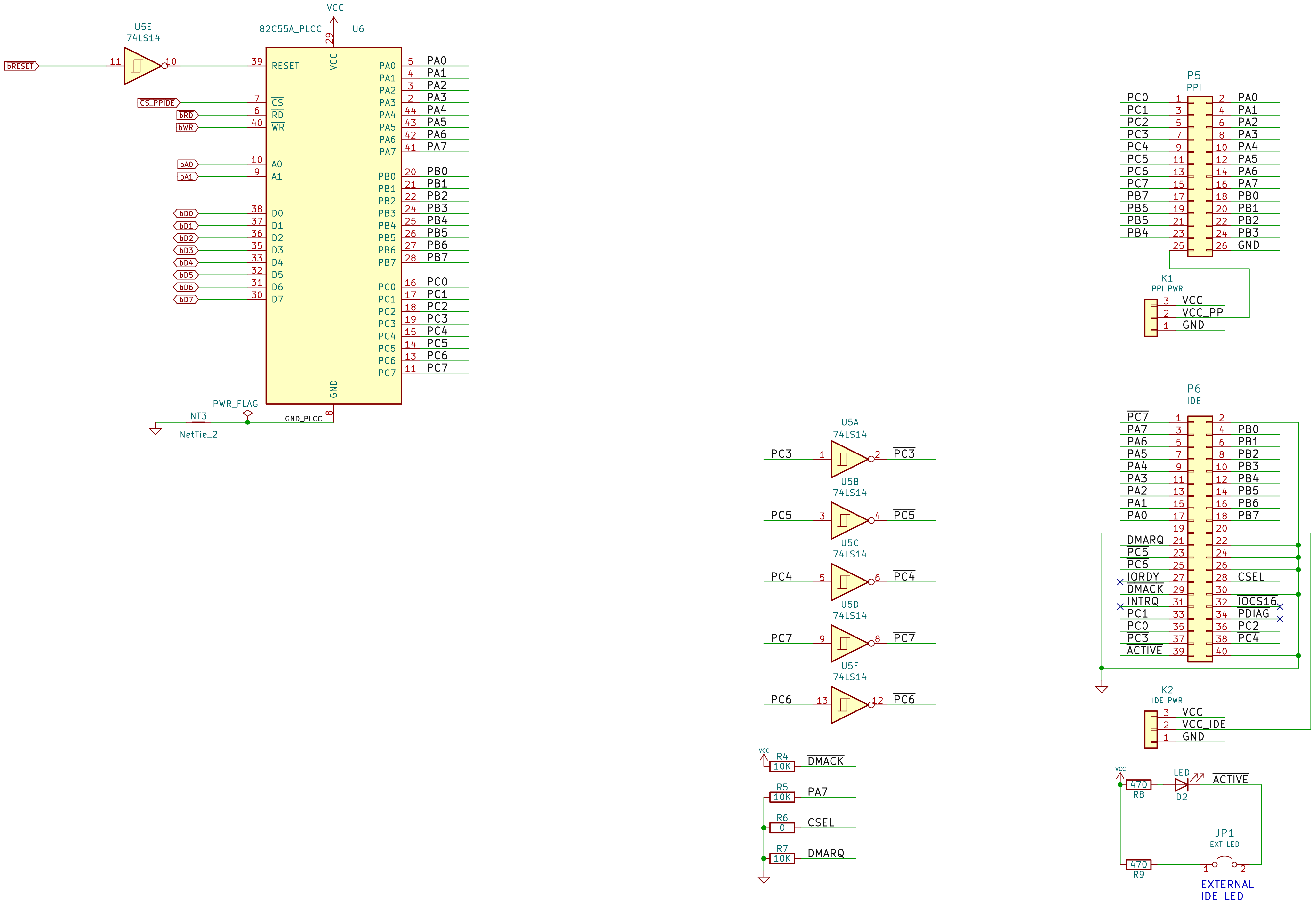
Title:

Size: B	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.11)		Id: 3/9



Sheet: /PPIDE/
File: PPIDE.kicad_sch

Title:

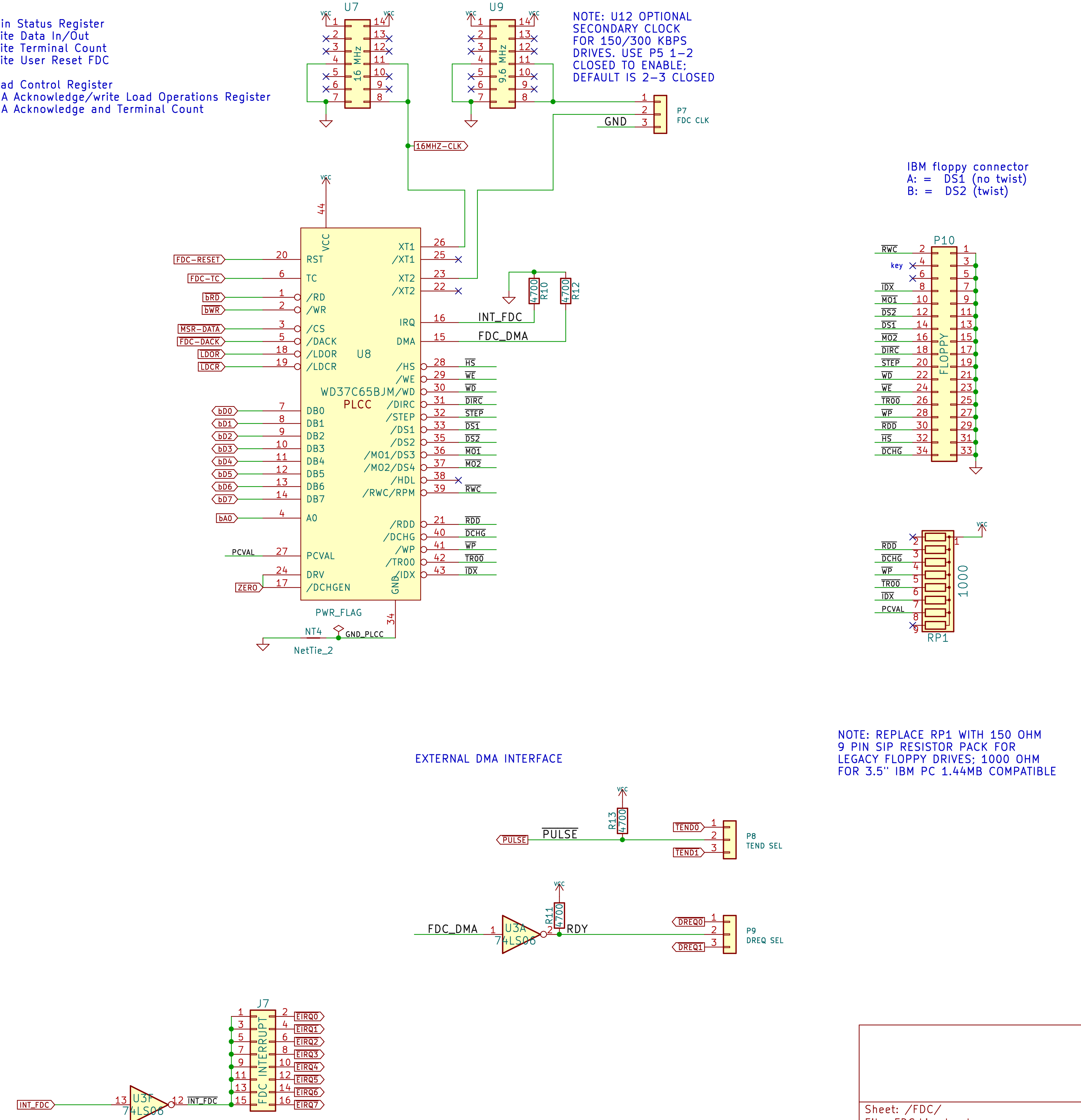
Size: B
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 4/9

FLOPPY DRIVE INTERFACE

IO Ports
x0 read Main Status Register
x1 read/write Data In/Out
x2 read/write Terminal Count
x3 read/write User Reset FDC
x4 <none>
x5 write Load Control Register
x6 read DMA Acknowledge/write Load Operations Register
x7 read DMA Acknowledge and Terminal Count

NOTE: U12 OPTIONAL
SECONDARY CLOCK
FOR 150/300 KBPS
DRIVES. USE P5 1-2
CLOSED TO ENABLE:
DEFAULT IS 2-3 CLOSED

IBM floppy connector
A: = DS1 (no twist)
B: = DS2 (twist)



NOTE: REPLACE RP1 WITH 150 OHM
9 PIN SIP RESISTOR PACK FOR
LEGACY FLOPPY DRIVES; 1000 OHM
FOR 3.5" IBM PC 1.44MB COMPATIBLE

EXTERNAL DMA INTERFACE

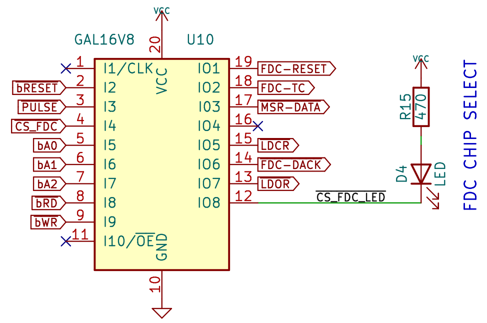
NOTE: RELIES ON 4700 OHM PULL UP
RESISTOR ON Z80 PROCESSOR BOARD

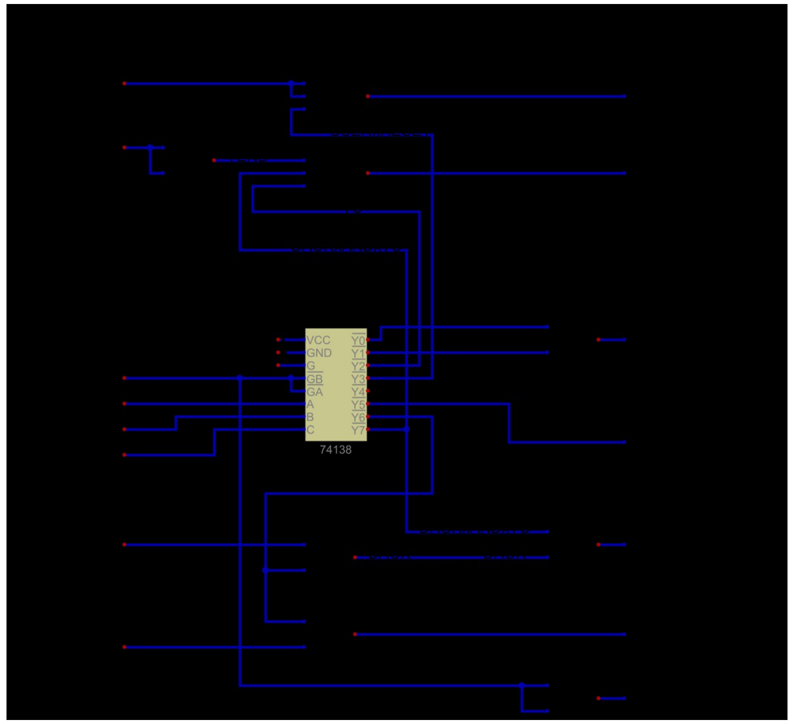
Sheet: /FDC/
File: FDC.kicad_sch

Title:

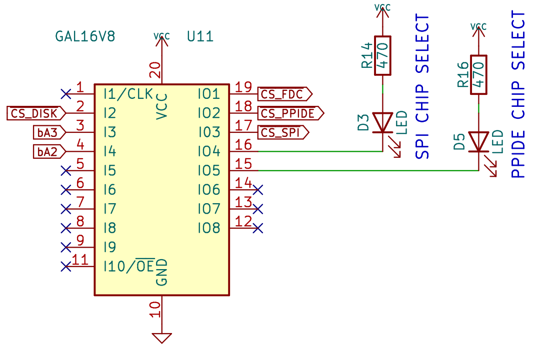
Size: B
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 5/9

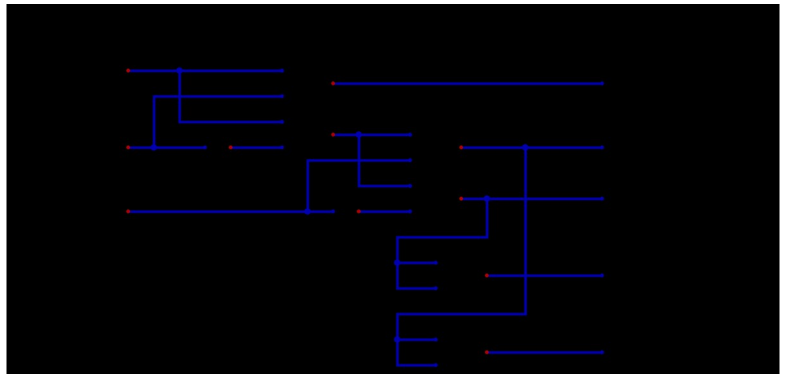
FDC DMA GAL16V8





DISK CS GAL16V8



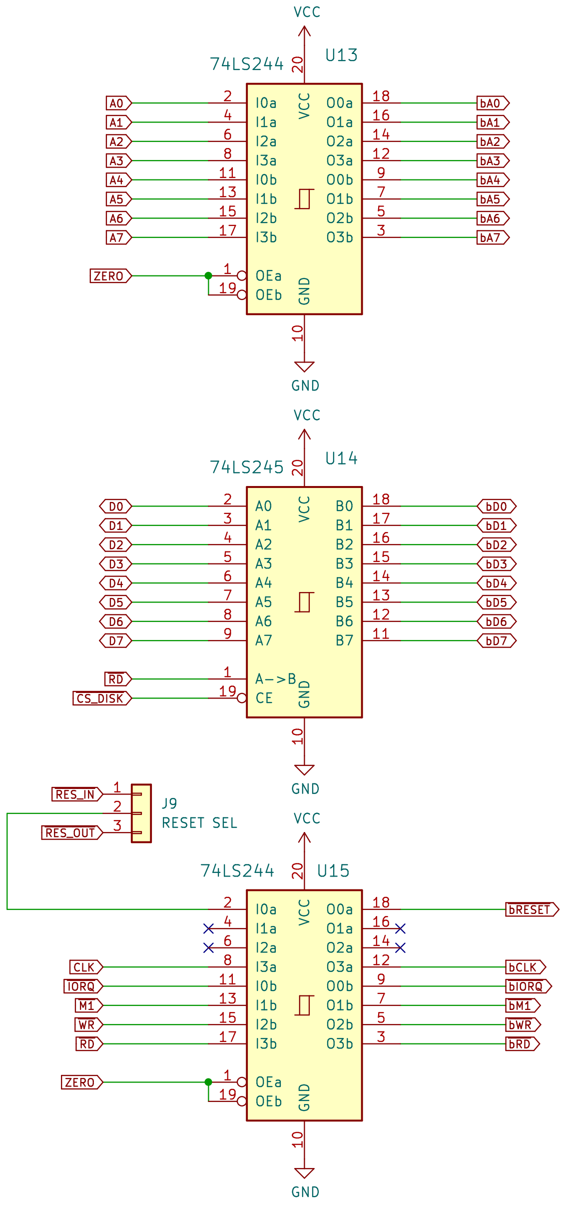


Sheet: /GAL/
File: GAL.kicad_sch

Title:

Size: B
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 6/9

Z80 BUS INTERFACE



Note: Buffers and Transceivers
respond to IO and MEM cycles

Sheet: /buffers/
File: buffers.kicad_sch

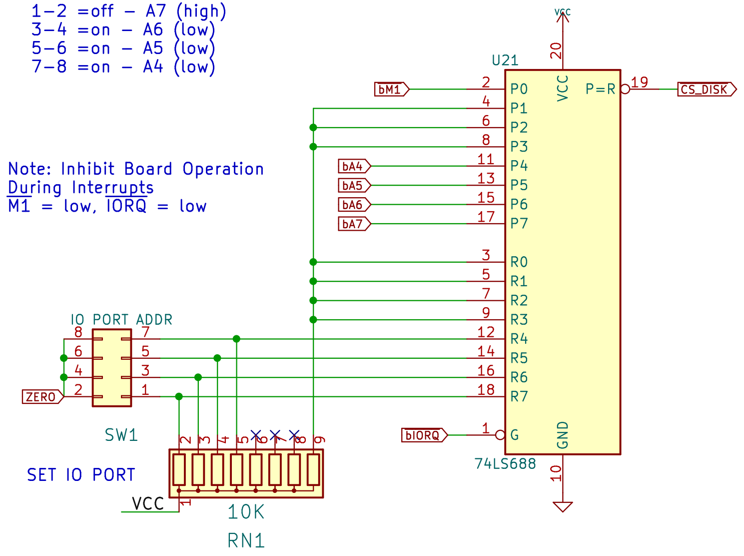
Title:

Size: B
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 7/9

IO SELECTION CIRCUIT
FDC, PPIDE, SPI-SD

Note: IO Address Port $80-$8F
1-2 =off - A7 (high)
3-4 =on - A6 (low)
5-6 =on - A5 (low)
7-8 =on - A4 (low)

Note: Inhibit Board Operation
During Interrupts
$\overline{\text{M1}}$ = low, $\overline{\text{IORQ}}$ = low



Sheet: /IO/
File: IO.kicad_sch

Title:

Size: B
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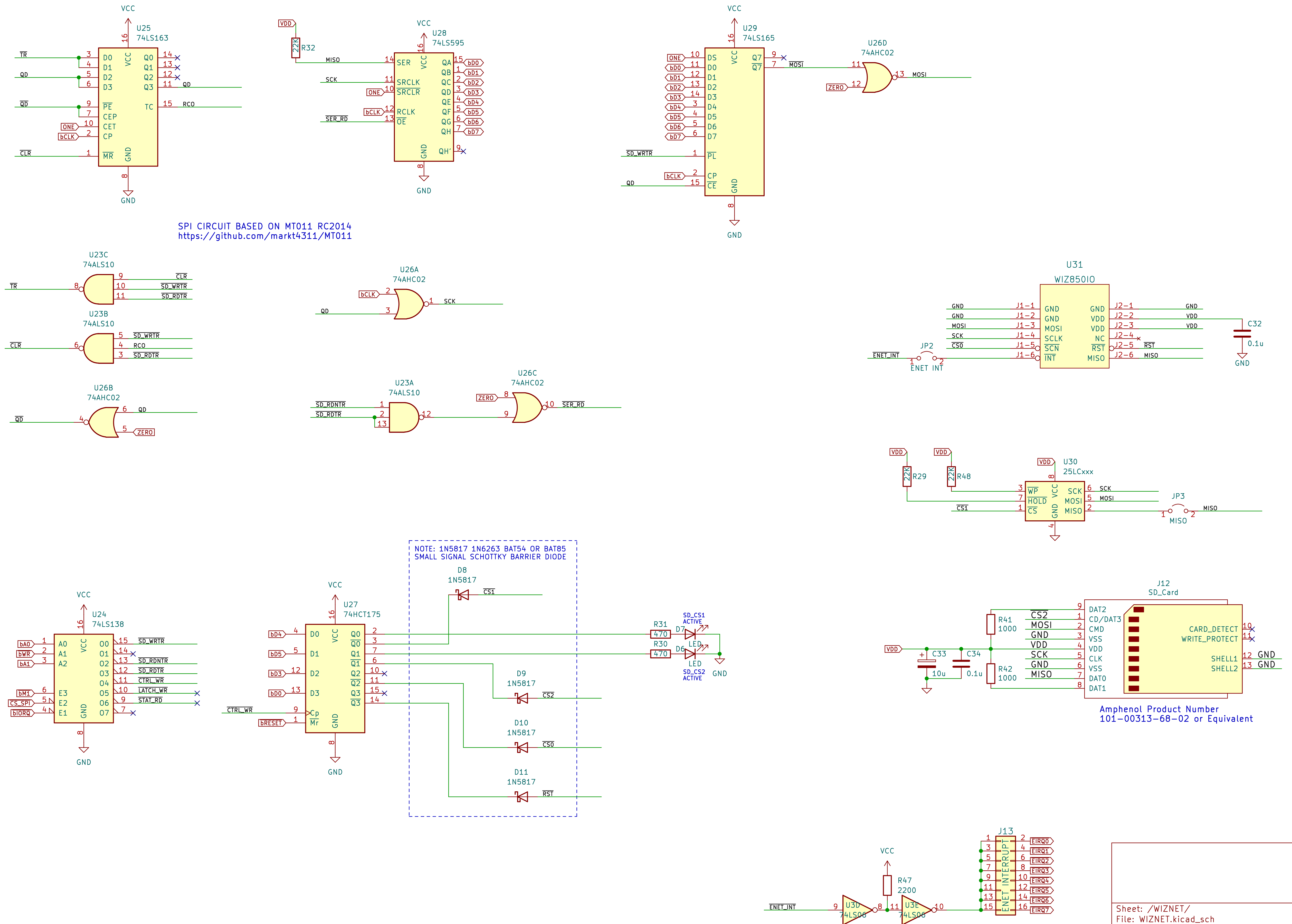
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 9/9



SPI CIRCUIT BASED ON MT011 RC2014
https://github.com/markt4311/MT011

NOTE: 1N5817 1N6263 BAT54 OR BAT85
SMALL SIGNAL SCHOTTKY BARRIER DIODE

Amphenol Product Number
101-00313-68-02 or Equivalent

NOTE: RELIES ON 4700 OHM PULL UP
RESISTOR ON Z80 PROCESSOR BOARD

Sheet: /WIZNET/
File: WIZNET.kicad_sch

Title:

Size: B
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 11/9