ECB Bus Interface

File: Bus_if.kicad_sch

Buffers & Decoding

File: buffdecode.kicad_sch

IEC Interface

File: iec.kicad_sch

IO Devices 1

File: iodev1.kicad_sch

IO Devices 2

File: iodev2.kicad_sch

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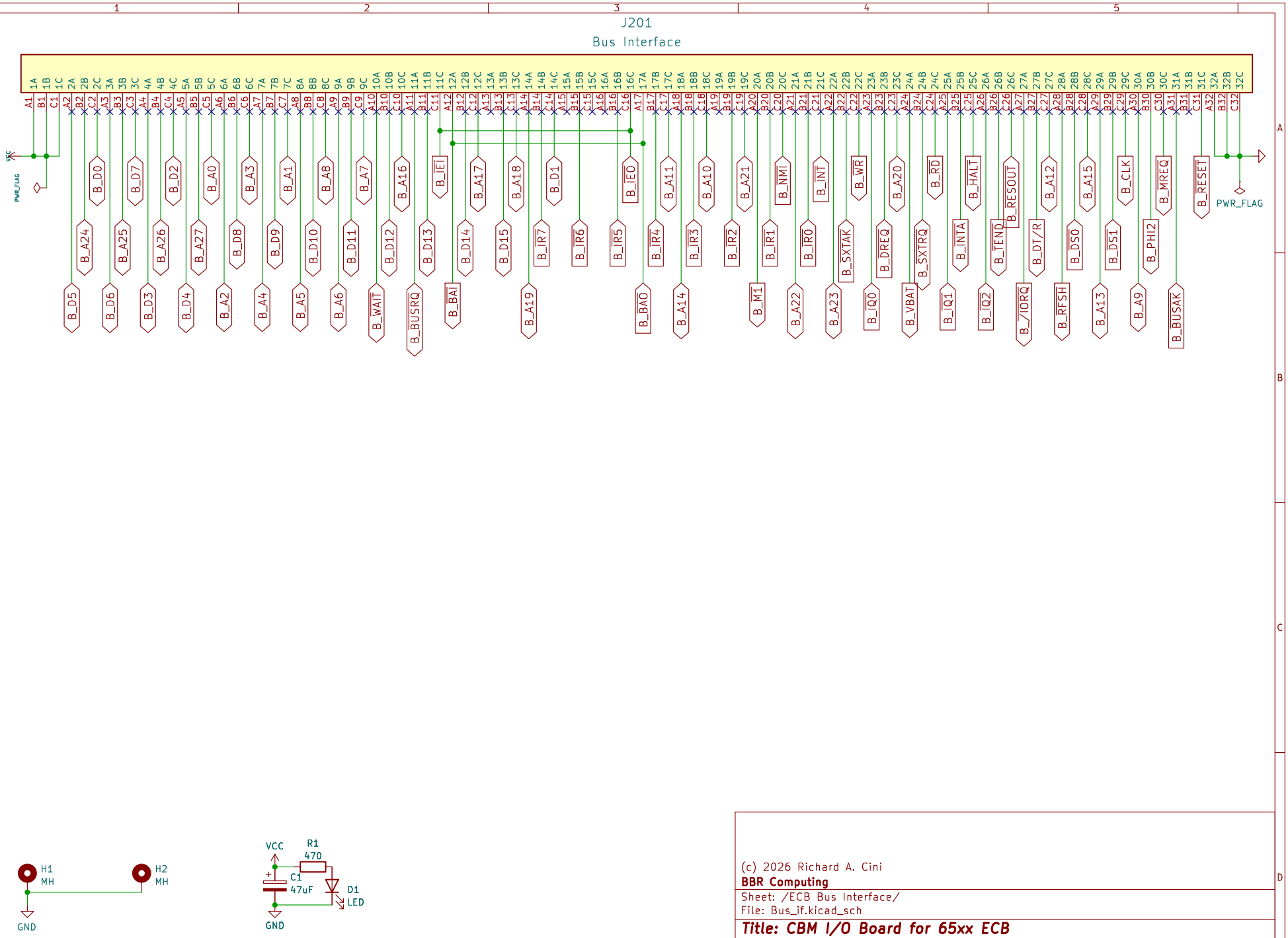
BBR Computing

Sheet: /

File: ECB CBM_IO_1.0-001.kicad_sch

Title: CBM I/O Board for 65xx ECB

Size: USLetter	Date: 2026-01-19	**Rev: 1.0-001**
KiCad E.D.A. 9.0.6		Id: 1/6


J201
Bus Interface
VCC
PWR_FLAG
B_D0
B_D7
B_D2
B_A0
B_A3
B_A1
B_A8
B_A7
B_A16
B_IEI
B_A17
B_A18
B_D1
B_IEO
B_A11
B_A10
B_A21
B_NMI
B_INT
B_WR
B_A20
B_RD
B_HALT
B_RESOUT
B_A12
B_A15
B_CLK
B_MREQ
B_RESET
B_A24
B_A25
B_A26
B_A27
B_D8
B_D9
B_D10
B_D11
B_D12
B_D13
B_D14
B_D15
B_IR7
B_IR6
B_IR5
B_IR4
B_IR3
B_IR2
B_IR1
B_IR0
B_SXTAK
B_DREQ
B_SXTRQ
B_INTA
B_TEND
B_DT/R
B_DS0
B_DS1
B_PHI2
B_D5
B_D6
B_D3
B_D4
B_A2
B_A4
B_A5
B_A6
B_WAIT
B_BUSRQ
B_BAI
B_A19
B_BAO
B_A14
B_M1
B_A22
B_A23
B_IQ0
B_VBAT
B_IQ1
B_IQ2
B_IORQ
B_RFSH
B_A13
B_A9
B_BUSAK
H1
MH
H2
MH
GND
VCC
R1
470
C1
47uF
D1
LED
GND
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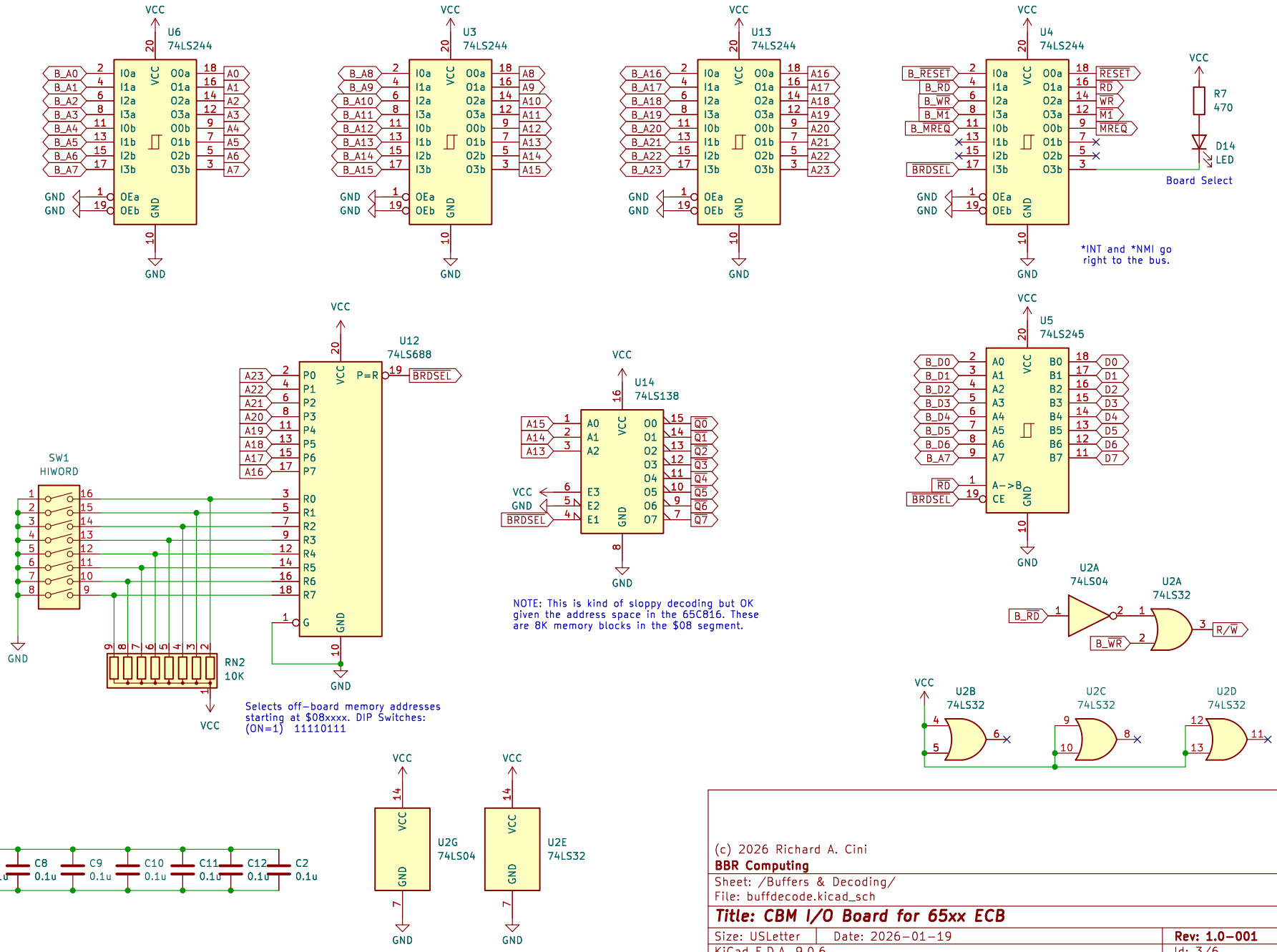
Sheet: /ECB Bus Interface/
File: Bus_if.kicad_sch
Title: CBM I/O Board for 65xx ECB
Size: USLetter
Date: 2026-01-19
Rev: 1.0-001
KiCad E.D.A. 9.0.6
Id: 2/6



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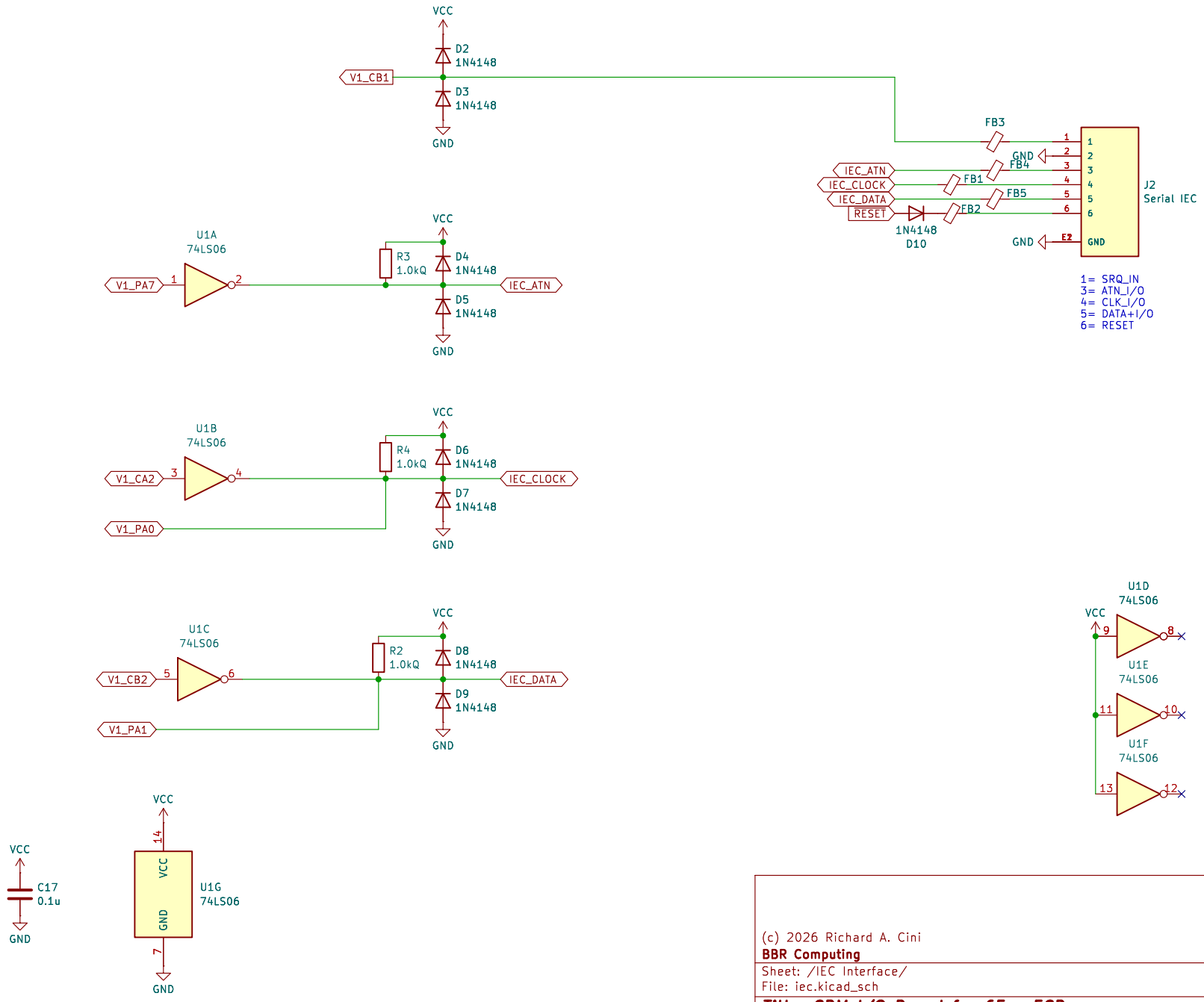
Sheet: /Buffers & Decoding/

File: buffdecode.kicad_sch

Title: CBM I/O Board for 65xx ECB

Size: USLetter	Date: 2026-01-19	Rev: 1.0-001
KiCad E.D.A. 9.0.6		Id: 3/6



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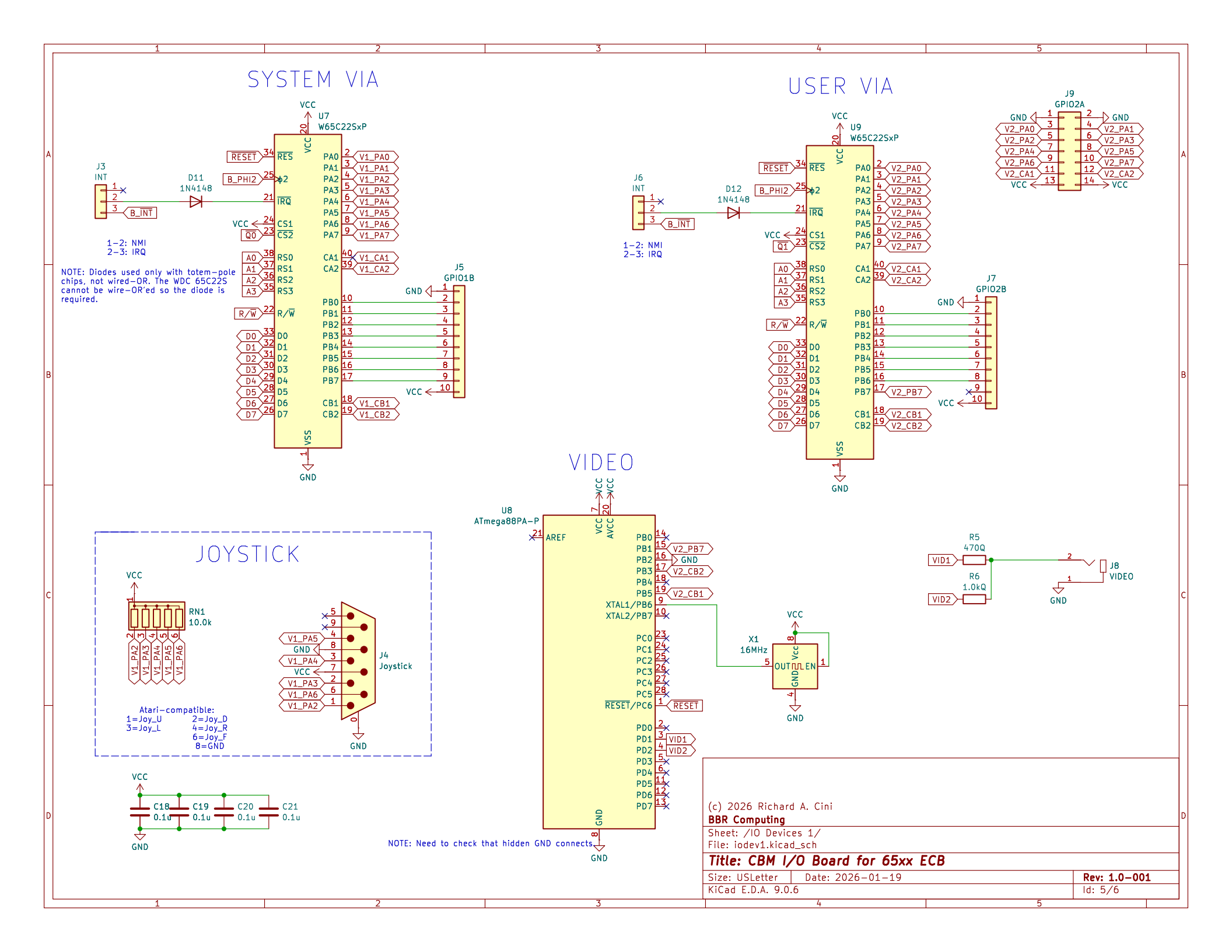
Sheet: /IEC Interface/

File: iec.kicad_sch

Title: CBM I/O Board for 65xx ECB

Size: USLetter	Date: 2026-01-19	**Rev: 1.0-001**
KiCad E.D.A. 9.0.6		Id: 4/6


SYSTEM VIA
USER VIA
VIDEO
JOYSTICK
U7
W65C22SxP
U9
W65C22SxP
U8
ATmega88PA-P
J3
INT
D11
1N4148
B_PHI2
B_IRQ
1-2: NMI
2-3: IRQ
NOTE: Diodes used only with totem-pole chips, not wired-OR. The WDC 65C22S cannot be wire-OR'ed so the diode is required.
J5
GPIO1B
J6
INT
D12
1N4148
J7
GPIO2B
J9
GPIO2A
RN1
10.0k
J4
Joystick
Atari-compatible:
1=Joy_U
2=Joy_D
3=Joy_L
4=Joy_R
6=Joy_F
8=GND
C18
0.1u
C19
0.1u
C20
0.1u
C21
0.1u
X1
16MHz
R5
470Ω
R6
1.0kΩ
J8
VIDEO
NOTE: Need to check that hidden GND connects.
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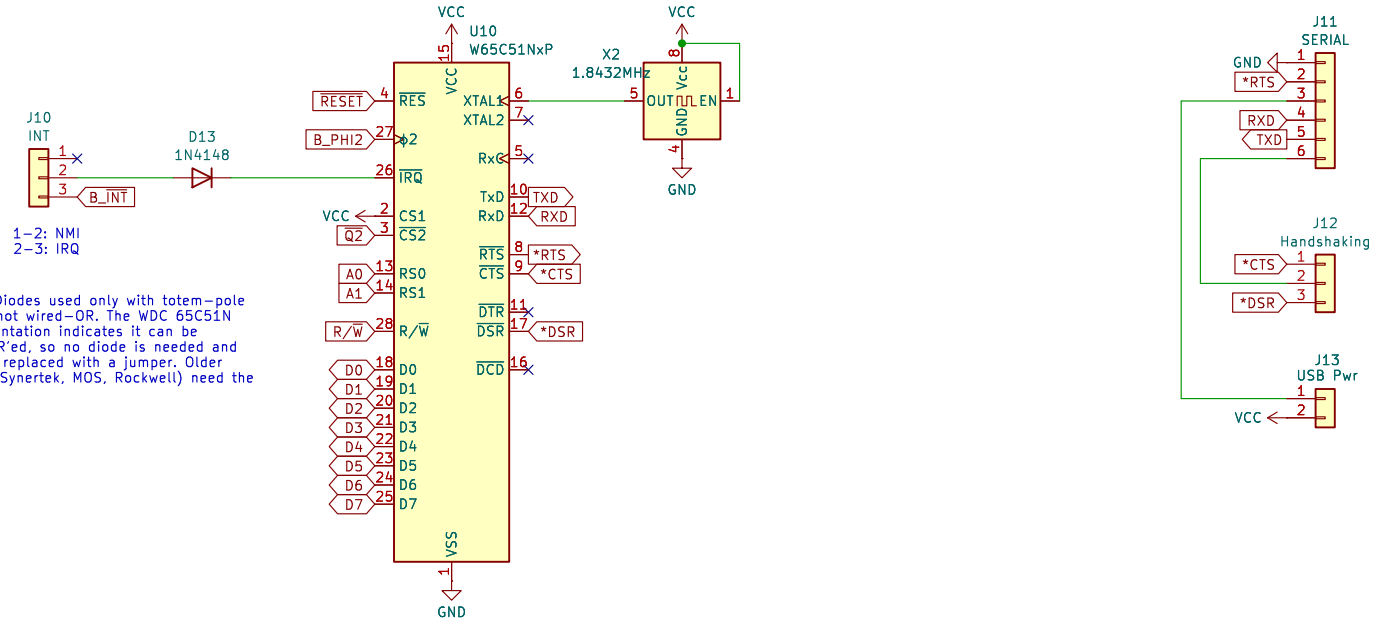
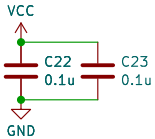
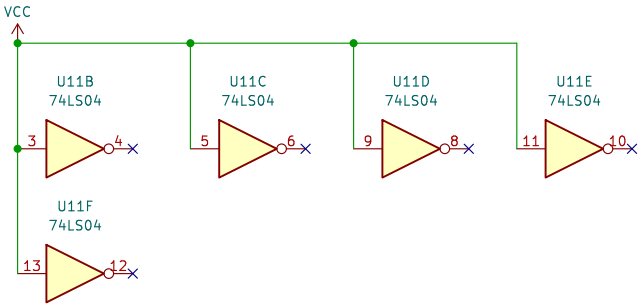
BBR Computing
Sheet: /IO Devices 1/
File: iodev1.kicad_sch
Title: CBM I/O Board for 65xx ECB
Size: USLetter
Date: 2026-01-19
Rev: 1.0-001
KiCad E.D.A. 9.0.6
Id: 5/6







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Sheet: /IO Devices 2/

File: iodev2.kicad_sch

Title: CBM I/O Board for 65xx ECB

Size: USLetter	Date: 2026–01–19	**Rev: 1.0–001**
KiCad E.D.A. 9.0.6		Id: 6/6