LED LED 6502 LED LED

H1 MountingHole

POWER INT 6809 NMI CS SYNC ML VP
D7 D3 EN D2 D0 D5 D1 D8

6809 ONLY 6809 RESET GENERATE RESET

J3 J2 JP3

SW1 RESET

H2 MountingHole

GND RTS VGC RX TX CTS

FRONT PANEL

FPANEL
J11

470 R13 470 R5 470Ω R8 470 R4 470 R12 470 R10 R1 470 R6

C35 0.1u

C46 47uF

IO DECODER

R9 1KΩ

U21 74LS574
C34 0.1u
C33 0.1u

NT3 NetTie_2

U3 GAL22V10
C32 0.1u

U31 74LS574
C36 0.1u

RN5 4700

C29 22u

J7 INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7
J8 INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7
I2C IRQ Selection   UART IRQ Selection

U16 74LS08
C11 0.1u

U29 74LS670
C39 0.1u
C22 0.1u

U24 74LS670

BUS SIGNALS
U2 GAL6V8
C38 0.1u

C14 0.1u

ADDRESS DECODER
U9 GAL22V10
C24 0.1u

RN3 470

J6 INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7
J5 NMI EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7
IRQ Selection   NMI Selection

BOARD GUIDES EXCLUSION ZONE

CPU CLOCK
U13 74LS04
C3 0.1u

U5 74LS04
C18 0.1u

U5 27C010

C17 0.1u

U4 74LS07
C6 0.1u

C26 10u
C12 0.1u

C23 0.1u
U23

W65C02S×PL
R11 1K

U20
C4 0.1u

TL16C550CFN

U18
C13 0.1u
UART CLOCK

U27 PCF8584
C40 0.1u

RN1 4700
BUS CPU JP4

JP1 GENERATE CLOCK
U15 DS1233
C19 0.1u

RN4 4700

U17 74LS244
C21 0.1u

U7 74LS14
C2 0.1u

IO Address Select
J1

JP10 IO PORT ADDR $50–$5F
A7 A6 A5 A4

RN8
NT4 NetTie2

R2 10K
C30 0.1u

INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7

U6 74LS244
C5 0.1u

U22 74LS688
C37 0.1u

RN2 10KΩ

U12 74LS688
C9 0.1u

R3 10K

1N4148 D6 K
R7 10
J4 RES SEL

U14 74LS244
C10 0.1u

C25 10u
P1
CONN_02X25

C20 0.1u
U10 74LS244

U8 74LS244
C8 0.1u

C27 10u
P2
CONN_02X25

PROCESSOR.6502, VERSION 0.8, AS OF 12 APR 2025

U11 74LS245
C16 0.1u

C28 10u
P3
CONN_02X25

PATCH LEVEL 0_ 1_ 2_ 3_ 4_ 5_ 6_ 7_ 8_ 9_

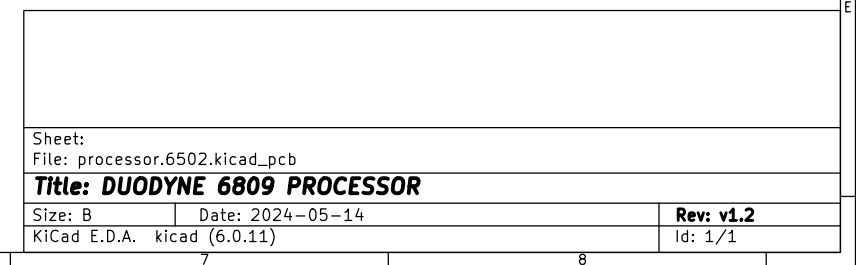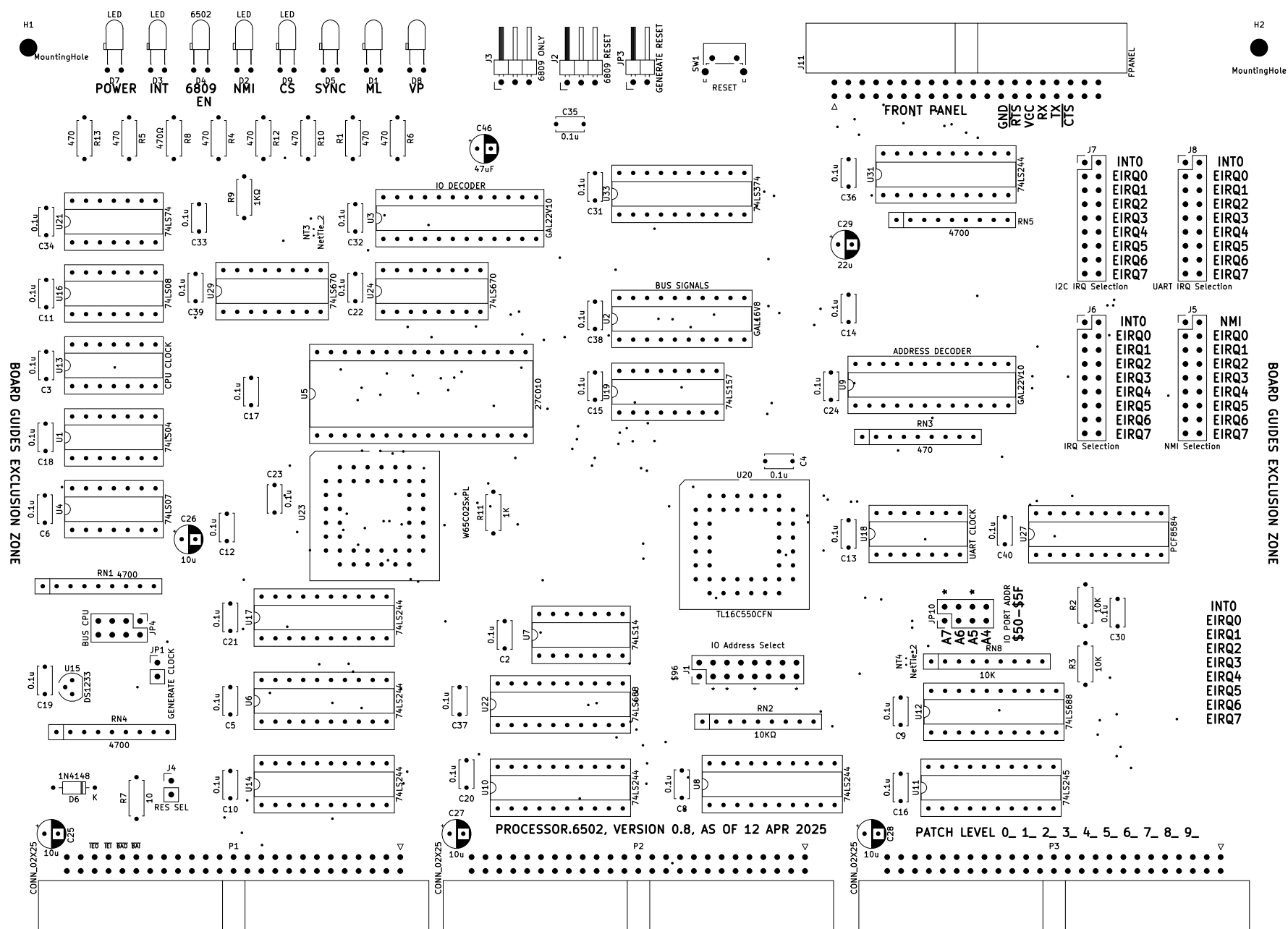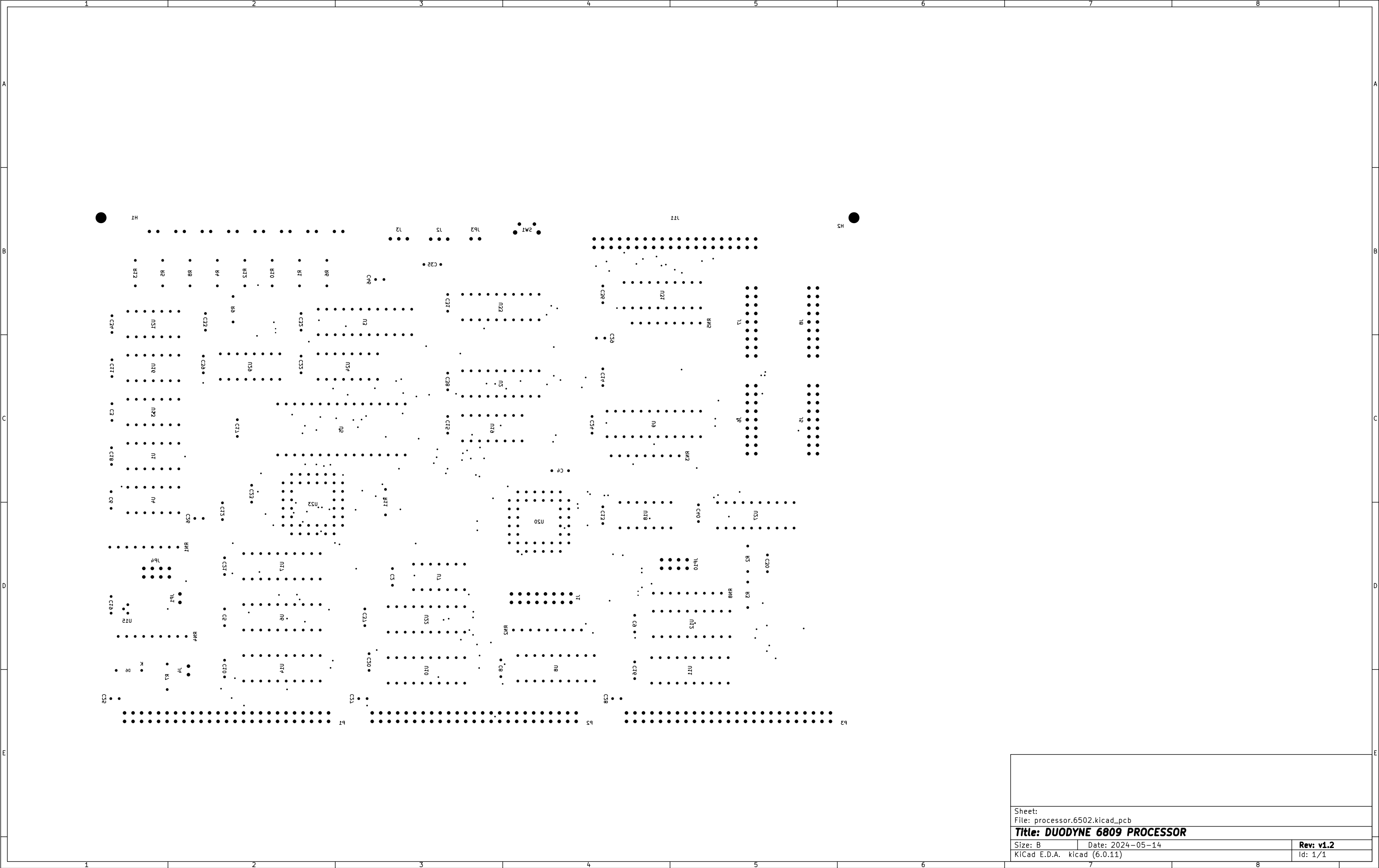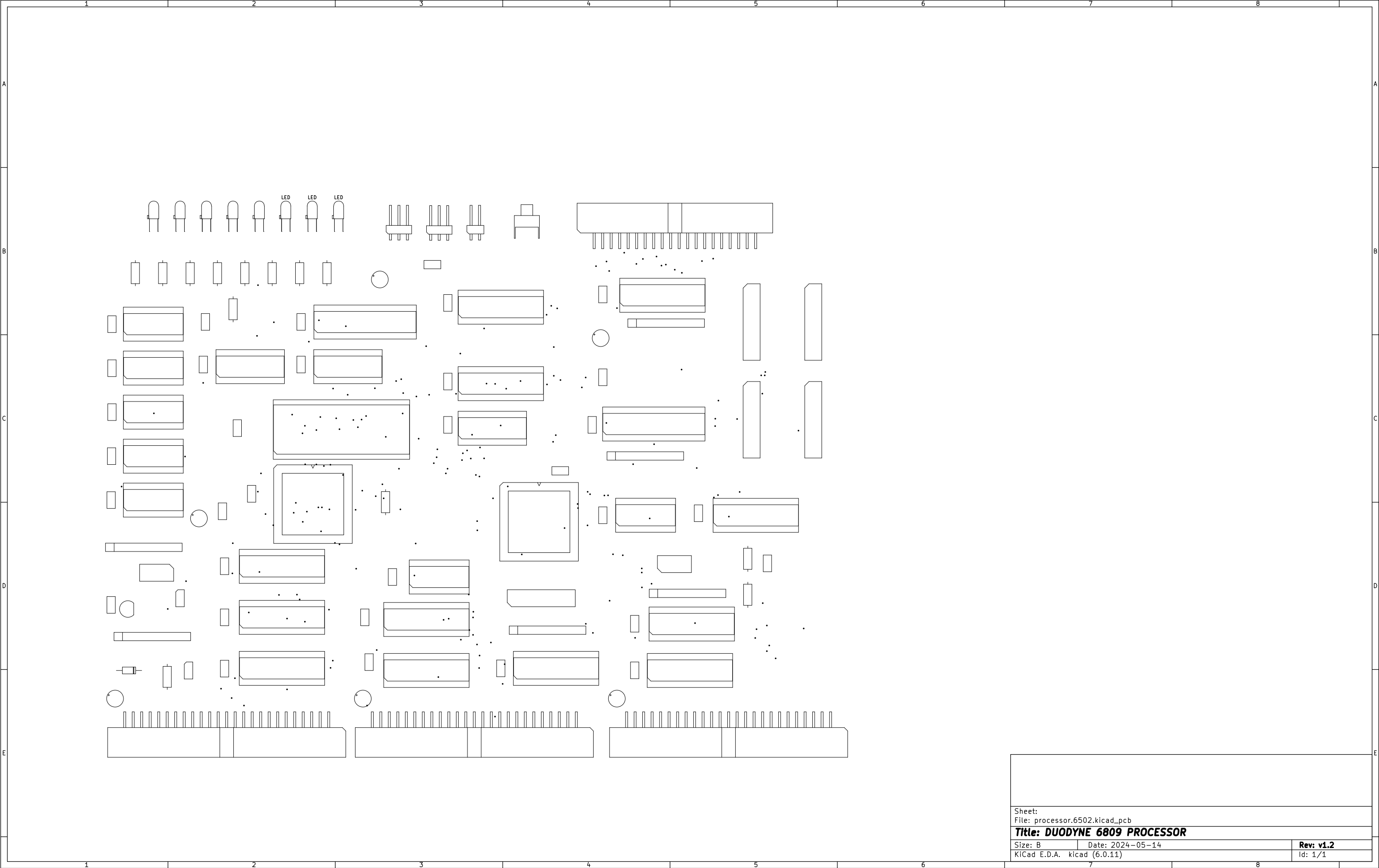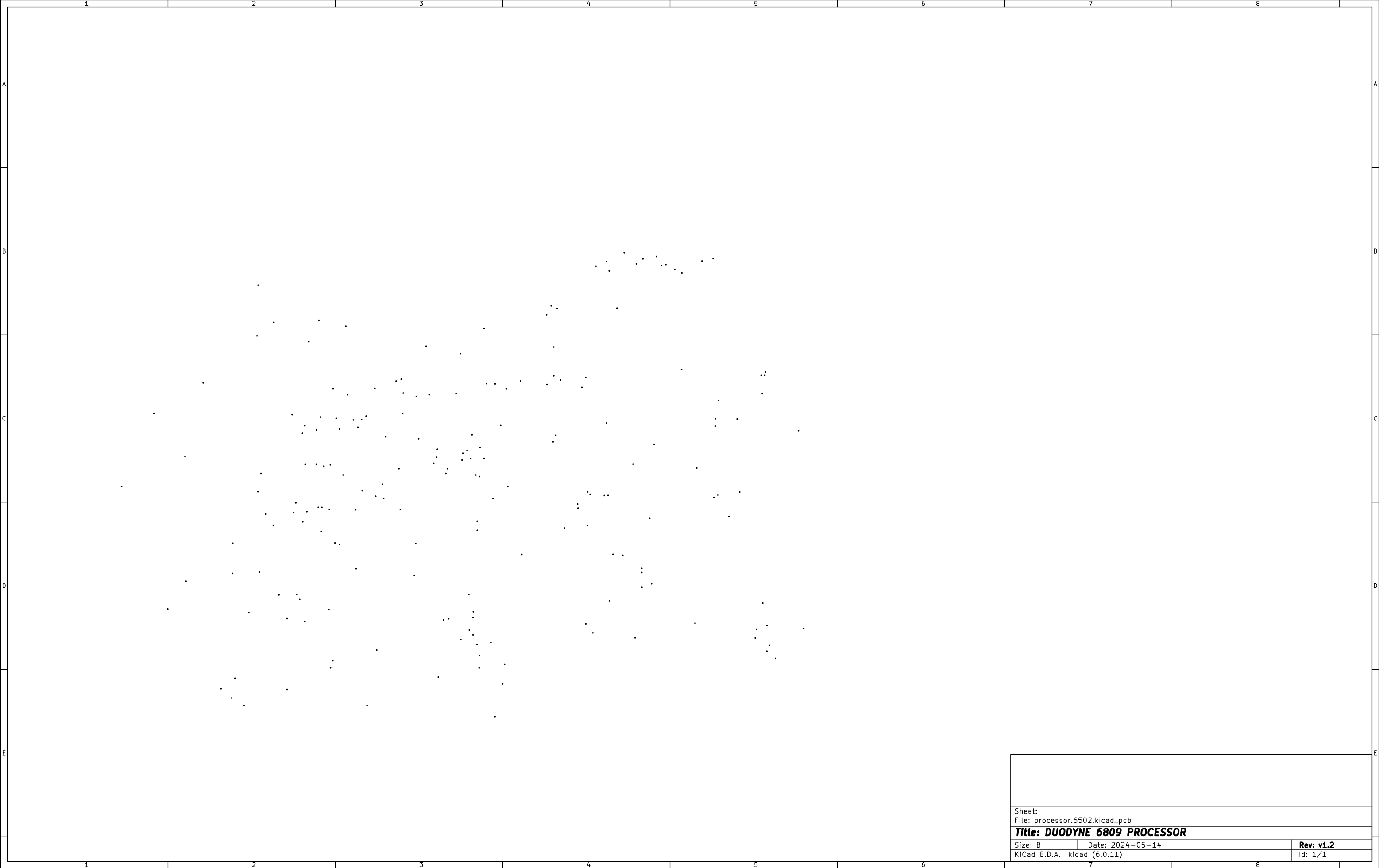BOARD GUIDES EXCLUSION ZONE

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Size: B   Date: 2024-05-14   Rev: v1.2
KiCad E.D.A. kicad (6.0.11)   Id: 1/1

LED   LED   LED