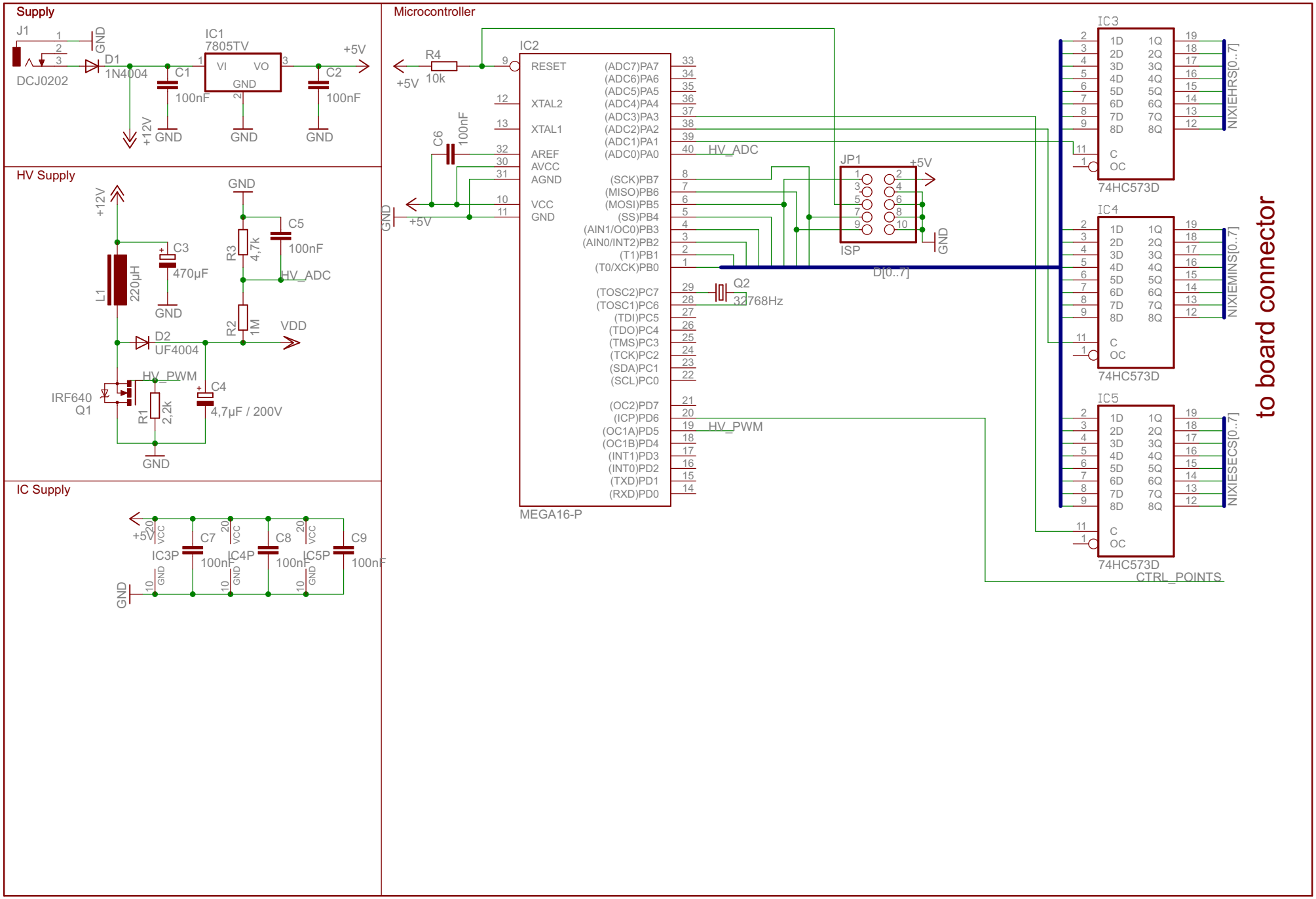
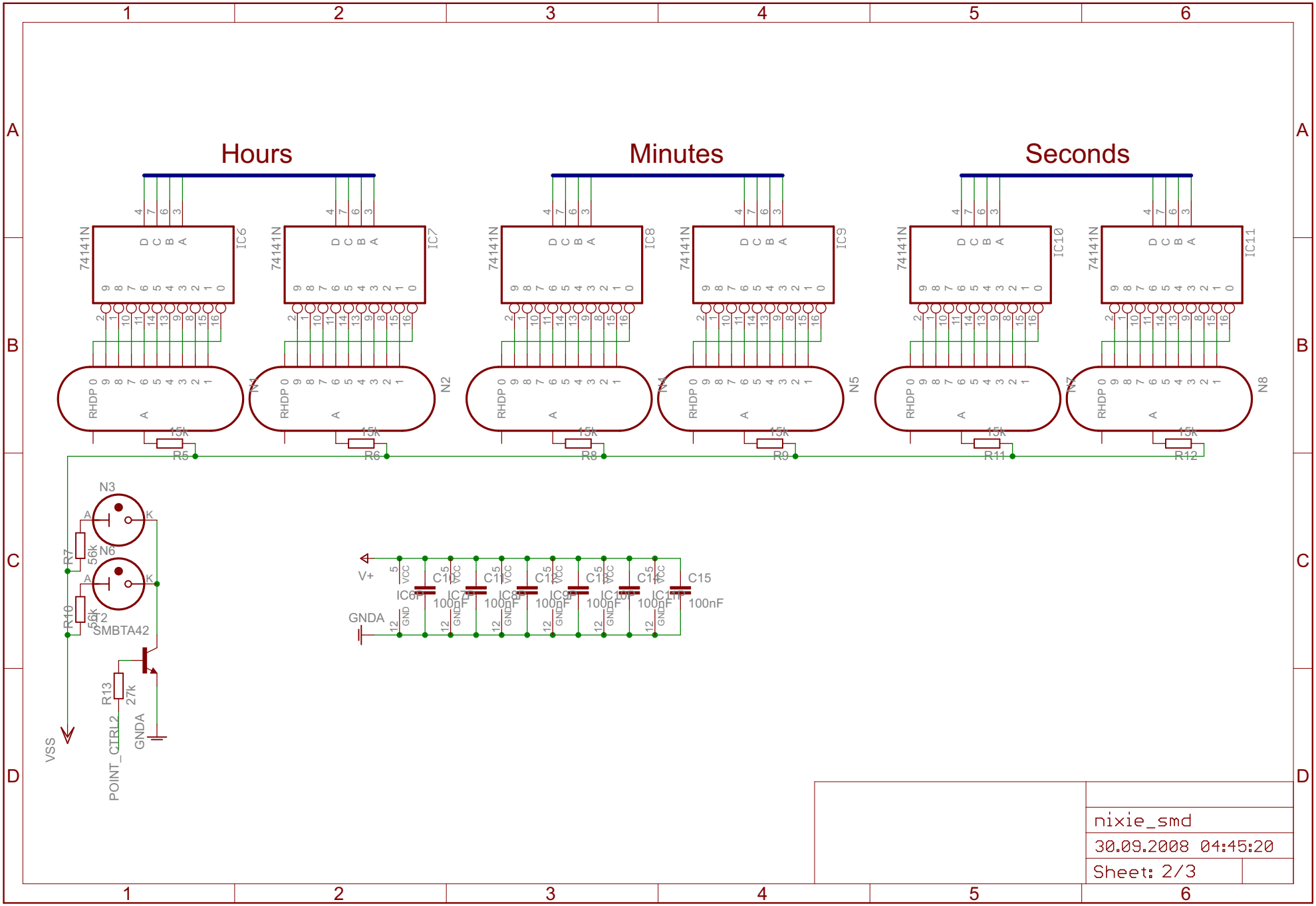

Supply
J1
DCJ0202
D1
1N4004
IC1
7805TV
VI
VO
GND
C1
100nF
C2
100nF
+5V
+12V
GND
HV Supply
+12V
L1
220µH
C3
470µF
R3
4,7k
C5
100nF
HV_ADC
R2
1M
VDD
D2
UF4004
HV_PWM
IRF640
Q1
R1
2,2k
C4
4,7µF / 200V
IC Supply
IC3P
IC4P
IC5P
C7
C8
C9
100nF
Microcontroller
IC2
MEGA16-P
R4
10k
C6
100nF
RESET
XTAL2
XTAL1
AREF
AVCC
AGND
VCC
GND
(ADC7)PA7
(ADC6)PA6
(ADC5)PA5
(ADC4)PA4
(ADC3)PA3
(ADC2)PA2
(ADC1)PA1
(ADC0)PA0
(SCK)PB7
(MISO)PB6
(MOSI)PB5
(SS)PB4
(AIN1/OC0)PB3
(AIN0/INT2)PB2
(T1)PB1
(T0/XCK)PB0
(TOSC2)PC7
(TOSC1)PC6
(TDI)PC5
(TDO)PC4
(TMS)PC3
(TCK)PC2
(SDA)PC1
(SCL)PC0
(OC2)PD7
(ICP)PD6
(OC1A)PD5
(OC1B)PD4
(INT1)PD3
(INT0)PD2
(TXD)PD1
(RXD)PD0
HV_ADC
HV_PWM
Q2
32768Hz
JP1
ISP
D[0..7]
IC3
IC4
IC5
74HC573D
1D
2D
3D
4D
5D
6D
7D
8D
1Q
2Q
3Q
4Q
5Q
6Q
7Q
8Q
C
OC
NIXIEHRS[0..7]
NIXIEMINS[0..7]
NIXIESECS[0..7]
CTRL_POINTS
to board connector


Hours
Minutes
Seconds
74141N
IC6
IC7
IC8
IC9
IC10
IC11
RHDP 0
N1
N2
N4
N5
N7
N8
15k
R5
R6
R8
R9
R11
R12
N3
N6
R7
56k
R10
56k
Q2
SMBTA42
R13
27k
POINT_CTRL2
GNDA
VSS
V+
GNDA
VCC
GND
C15
100nF
nixie_smd
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Nixie Pinout

Logicboard connector	0 1 2 3 | 4 5 6 7
Nixieboard connector	2 1 3 0 | 6 5 7 4

nixie_smd

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