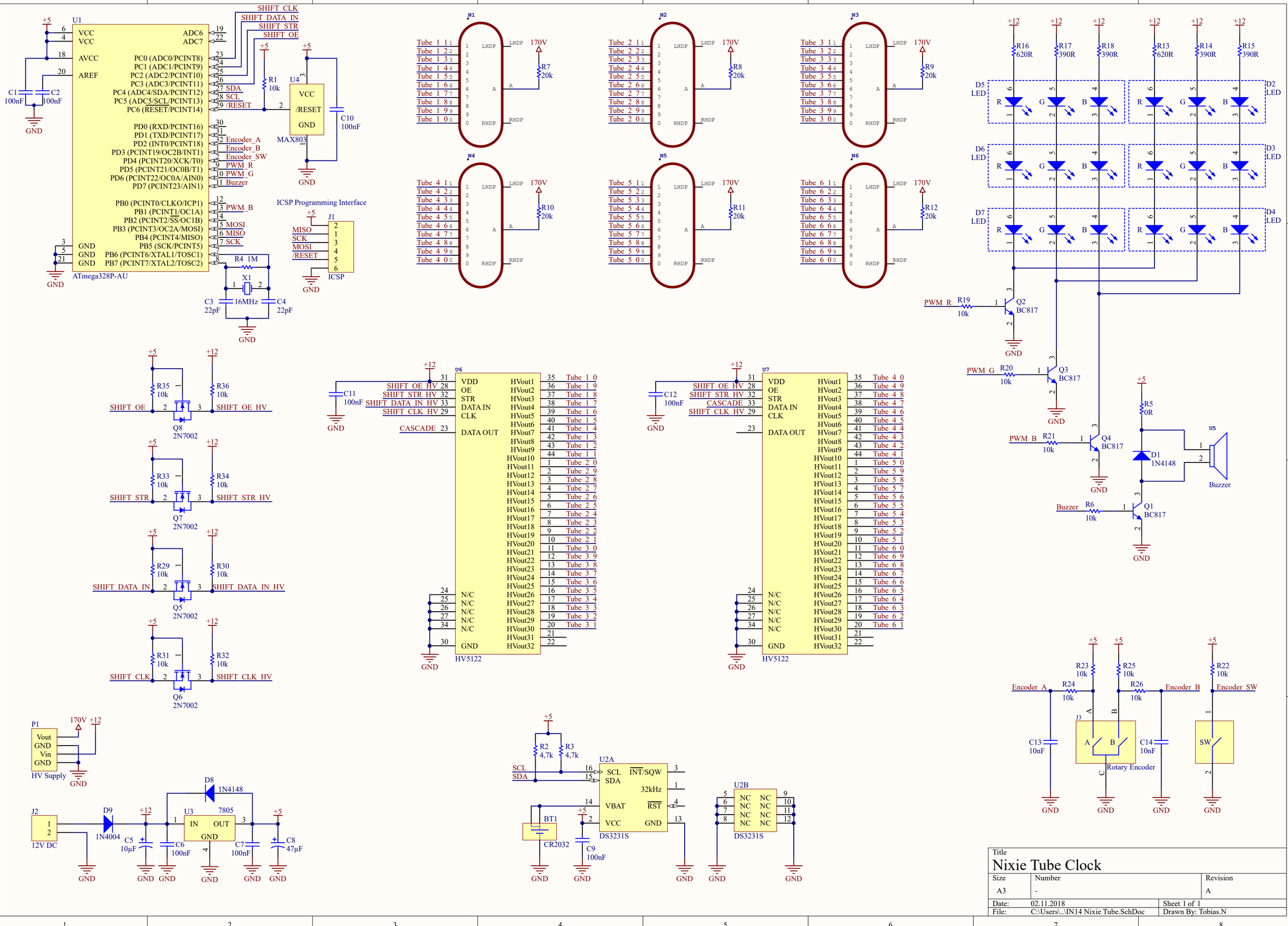
U1
ATmega328P-AU
SHIFT_CLK
SHIFT_DATA_IN
SHIFT_STR
SHIFT_OE
Encoder_A
Encoder_B
Encoder_SW
PWM_R
PWM_G
Buzzer
PWM_B
MOSI
MISO
SCK
ICSP Programming Interface
J1
ICSP
MAX803
U4
X1
16MHz
R4 1M
C1 100nF
C2 100nF
C3 22pF
C4 22pF
C10 100nF
R1 10k
N1
N2
N3
N4
N5
N6
HV5122
LHDP
RHDP
170V
R7 20k
R8 20k
R9 20k
R10 20k
R11 20k
R12 20k
U6
U7
DS3231S
BT1
CR2032
C11 100nF
C12 100nF
C9 100nF
R2 4,7k
R3 4,7k
U2A
U2B
SCL
SDA
R16 620R
R17 390R
R18 390R
R13 620R
R14 390R
R15 390R
D5 LED
D6 LED
D7 LED
D2 LED
D3 LED
D4 LED
R19 10k
R20 10k
R21 10k
Q2 BC817
Q3 BC817
Q4 BC817
Q1 BC817
R5 0R
D1 1N4148
R6 10k
R22 10k
R23 10k
R24 10k
R25 10k
R26 10k
J3
Rotary Encoder
C13 10nF
C14 10nF
R35 10k
R36 10k
R33 10k
R34 10k
R29 10k
R30 10k
R31 10k
R32 10k
Q8 2N7002
Q7 2N7002
Q5 2N7002
Q6 2N7002
P1
HV Supply
J2
12V DC
D8 1N4148
D9 1N4004
U3 7805
C5 10µF
C6 100nF
C7 100nF
C8 47µF
Title
Nixie Tube Clock
Size A3
Number -
Revision A
Date: 02.11.2018
File: C:\Users\..\IN14 Nixie Tube.SchDoc
Sheet 1 of 1
Drawn By: Tobias.N