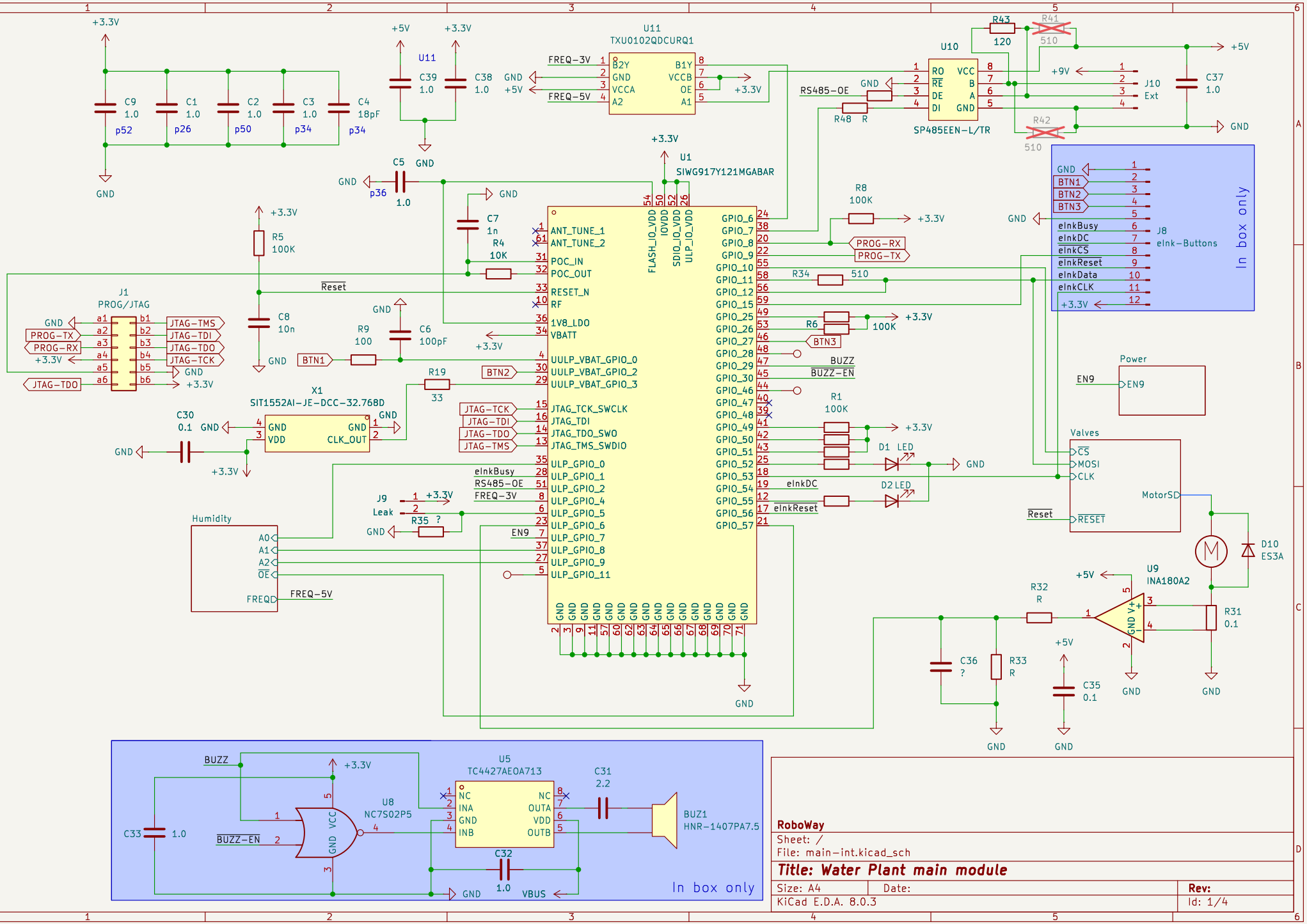
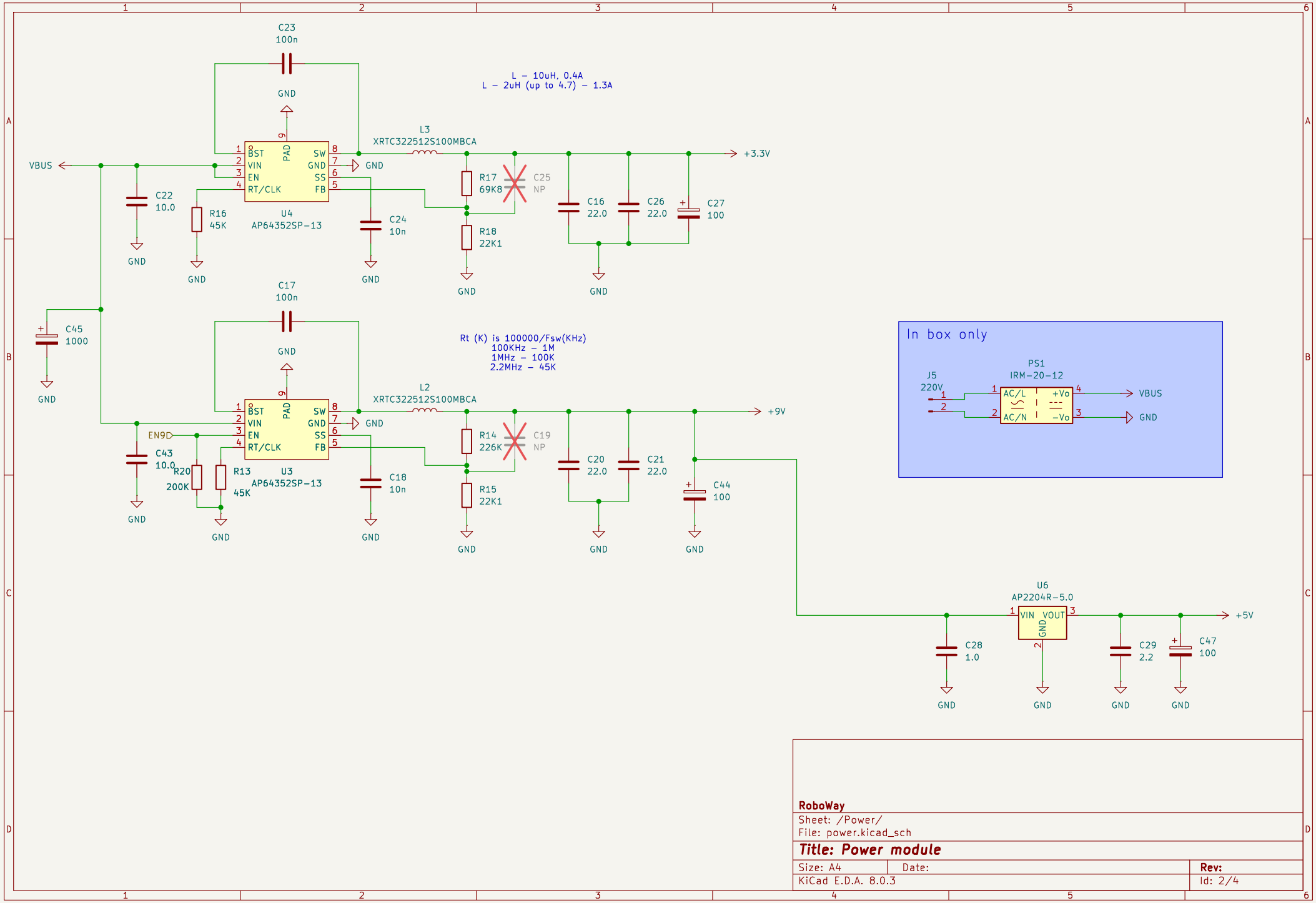
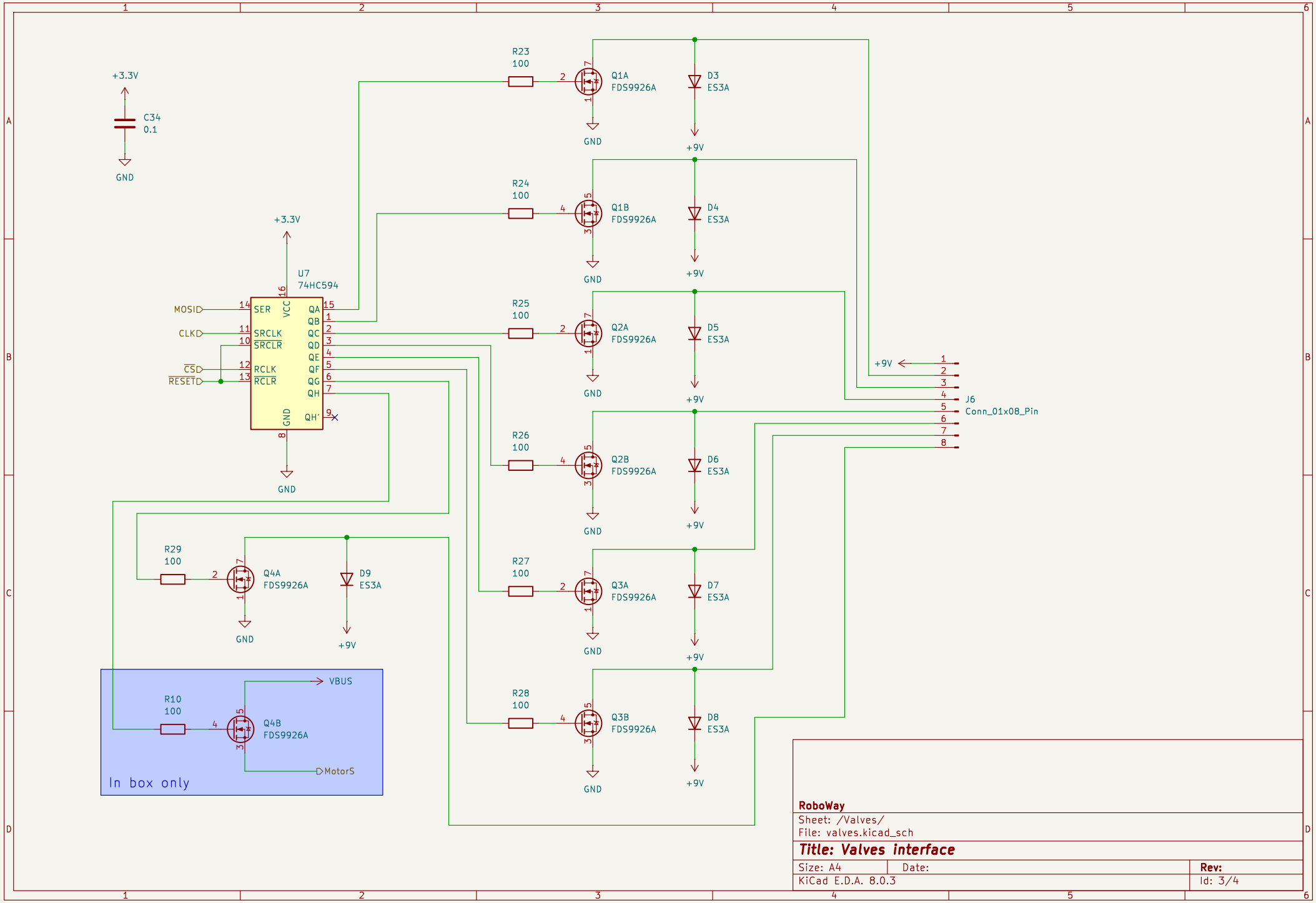
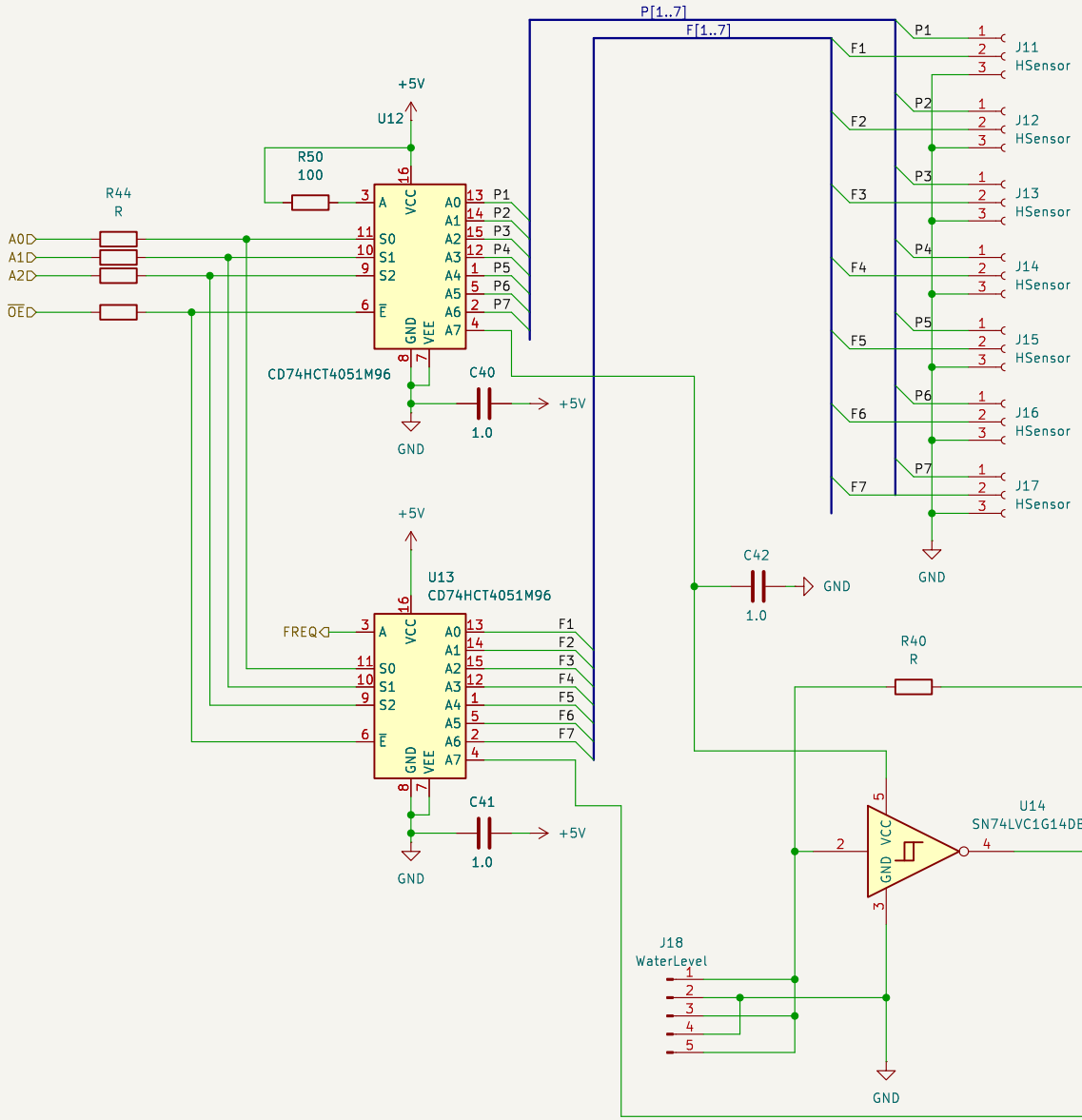

U1
SIWG917Y121MGABAR
U11
TXU0102QDCURQ1
U10
SP485EEN-L/TR
U5
TC4427AEOA713
U8
NC7S02P5
U9
INA180A2
X1
SIT1552AI-JE-DCC-32.768D
J1
PROG/JTAG
J8
eInk-Buttons
J9
Leak
Humidity
Valves
MotorSD
Power
D1 LED
D2 LED
D10
ES3A
BUZ1
HNR-1407PA7.5
In box only
In box only
RoboWay
Sheet: /
File: main-int.kicad_sch
Title: Water Plant main module
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.3
Id: 1/4


C23
100n
L – 10uH, 0.4A
L – 2uH (up to 4.7) – 1.3A
GND
L3
XRTC322512S100MBCA
VBUS
BST
VIN
EN
RT/CLK
SW
GND
SS
FB
PAD
U4
AP64352SP-13
+3.3V
C22
10.0
R16
45K
C24
10n
R17
69K8
C25
NP
R18
22K1
C16
22.0
C26
22.0
C27
100
C17
100n
C45
1000
Rt (K) is 100000/Fsw(KHz)
100KHz – 1M
1MHz – 100K
2.2MHz – 45K
L2
XRTC322512S100MBCA
+9V
EN9D
C43
10.0
R20
200K
R13
45K
U3
AP64352SP-13
C18
10n
R14
226K
C19
NP
R15
22K1
C20
22.0
C21
22.0
C44
100
In box only
PS1
IRM-20-12
J5
220V
AC/L
AC/N
+Vo
-Vo
VBUS
GND
U6
AP2204R-5.0
VIN
VOUT
+5V
C28
1.0
C29
2.2
C47
100
RoboWay
Sheet: /Power/
File: power.kicad_sch
Title: Power module
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.3
Id: 2/4


+3.3V
C34
0.1
GND
U7
74HC594
MOSI
CLK
CS
RESET
SER
SRCLK
SRCLR
RCLK
RCLR
VCC
GND
QA
QB
QC
QD
QE
QF
QG
QH
QH'
R23
100
R24
100
R25
100
R26
100
R27
100
R28
100
R29
100
R10
100
Q1A
FDS9926A
Q1B
FDS9926A
Q2A
FDS9926A
Q2B
FDS9926A
Q3A
FDS9926A
Q3B
FDS9926A
Q4A
FDS9926A
Q4B
FDS9926A
D3
ES3A
D4
ES3A
D5
ES3A
D6
ES3A
D7
ES3A
D8
ES3A
D9
ES3A
+9V
J6
Conn_01x08_Pin
VBUS
MotorS
In box only
RoboWay
Sheet: /Valves/
File: valves.kicad_sch
Title: Valves interface
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.3
Id: 3/4




| | | |
|---|---|---|
| RoboWay | | |
| Sheet: /Humidity/ | | |
| File: humidity.kicad_sch | | |
| **Title: Humidity sensors interface** | | |
| Size: A4 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.3 | | Id: 4/4 |