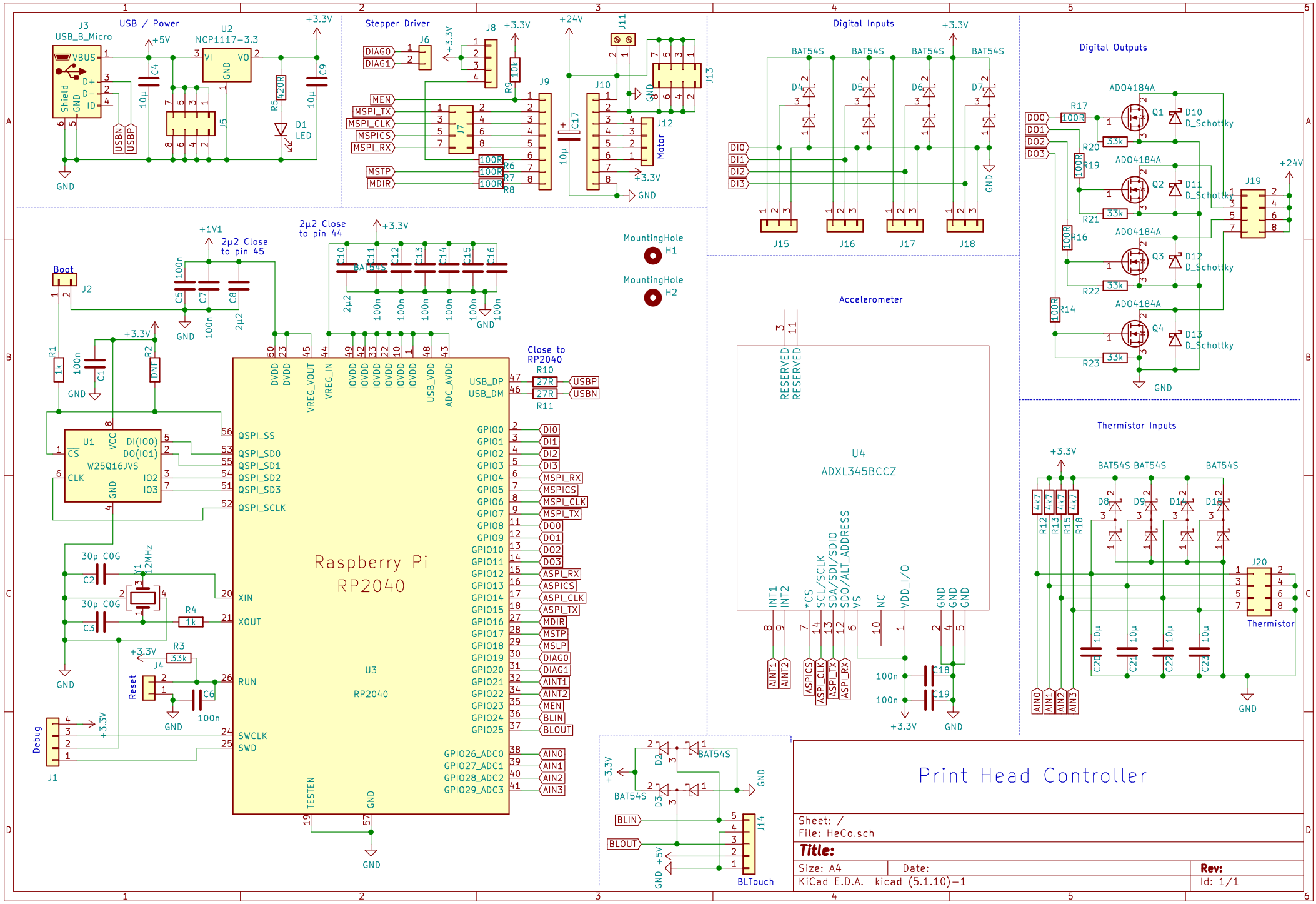
USB / Power
J3
USB_B_Micro
U2
NCP1117-3.3
+5V
+3.3V
C4
10µ
C9
10µ
R5
420R
D1
LED
USBN
USBP
GND
Stepper Driver
J6
DIAG0
DIAG1
J8
R9
10k
J9
J7
MEN
MSPI_TX
MSPI_CLK
MSPICS
MSPI_RX
MSTP
MDIR
R6
R7
R8
100R
J5
+24V
J11
J10
J12
Motor
J13
C17
10µ
Digital Inputs
BAT54S
D4
D5
D6
D7
DI0
DI1
DI2
DI3
J15
J16
J17
J18
Digital Outputs
ADO4184A
Q1
Q2
Q3
Q4
D10
D11
D12
D13
D_Schottky
R17
R18
R19
R20
R21
R22
R23
33k
DO0
DO1
DO2
DO3
J19
Boot
J2
+1V1
2µ2 Close to pin 45
2µ2 Close to pin 44
C5
C7
C8
C10
C11
C12
C13
C14
C15
C16
100n
2µ2
MountingHole
H1
H2
R1
1k
C1
R2
DNF
U1
W25Q16JVS
CS
DI(IO0)
DO(IO1)
CLK
IO2
IO3
VCC
GND
Close to RP2040
R10
R11
27R
USBP
USBN
USB_DP
USB_DM
QSPI_SS
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
QSPI_SCLK
XIN
XOUT
RUN
SWCLK
SWD
TESTEN
Raspberry Pi
RP2040
U3
RP2040
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
GPIO23
GPIO24
GPIO25
GPIO26_ADC0
GPIO27_ADC1
GPIO28_ADC2
GPIO29_ADC3
ASPI_RX
ASPI_CLK
ASPI_TX
MSLP
DIAG0
DIAG1
AINT1
AINT2
BLIN
BLOUT
AIN0
AIN1
AIN2
AIN3
30p C0G
C2
C3
Y1
12MHz
R4
1k
R3
33k
J4
Reset
C6
100n
Debug
J1
Accelerometer
U4
ADXL345BCCZ
RESERVED
INT1
INT2
*CS
SCL/SCLK
SDA/SDI/SDIO
SDO/ALT_ADDRESS
VS
NC
VDD_I/O
ASPICS
ASPI_CLK
ASPI_TX
ASPI_RX
C18
C19
Thermistor Inputs
R12
R13
R15
R18
4k7
D8
D9
D14
D15
J20
Thermistor
C20
C21
C22
C23
AIN0
AIN1
AIN2
AIN3
J14
BLTouch
D2
D3
Print Head Controller
Sheet: /
File: HeCo.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (5.1.10)-1
Id: 1/1