Sheet: MCU

File: MCU.sch

Sheet: Steppers

File: Steppers.sch

Sheet: Power

File: Power.sch

Sheet: FETs

File: FETs.sch

Sheet: Thermistors

File: Thermistors.sch

Sheet: Endstops

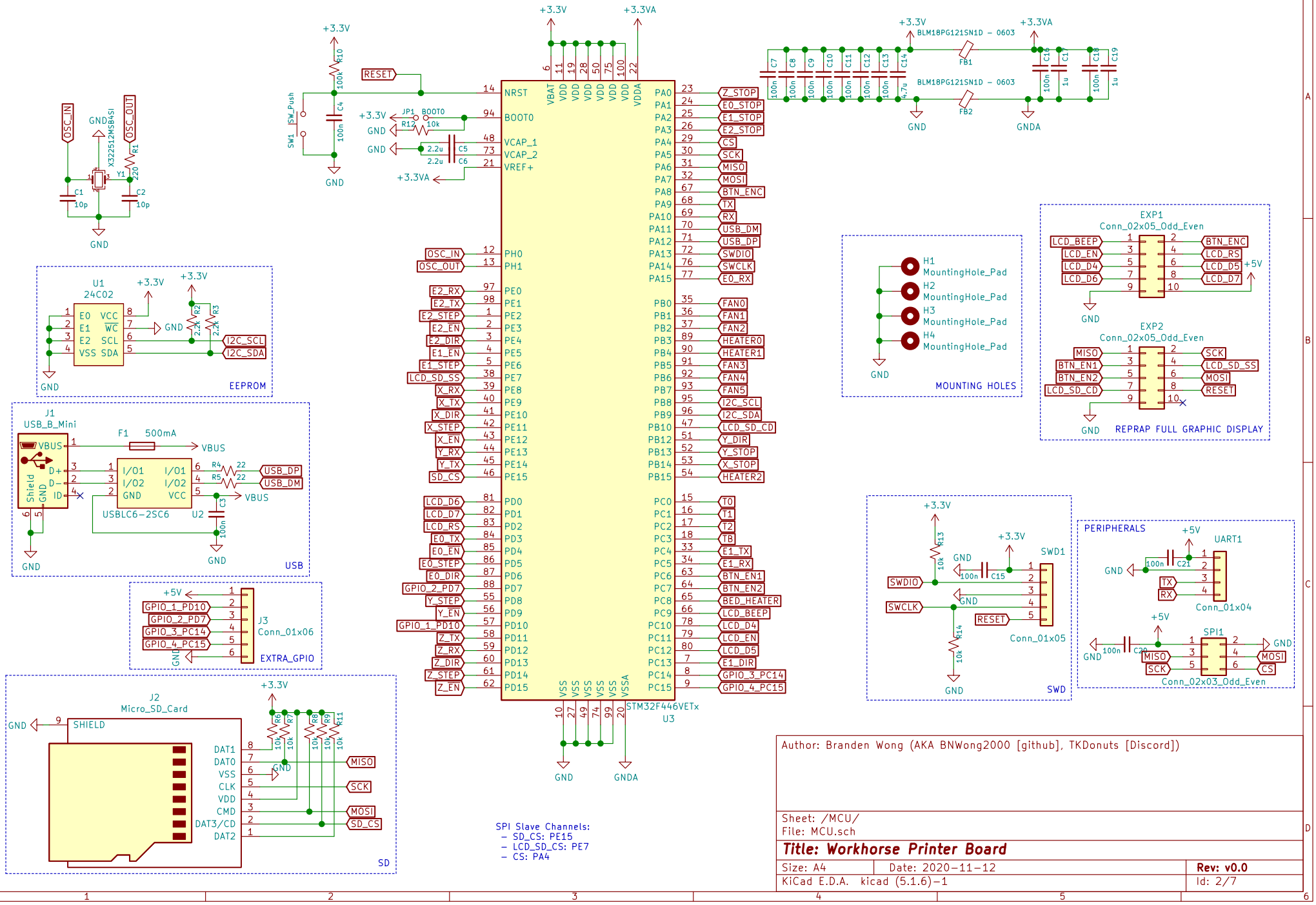
File: Endstops.sch

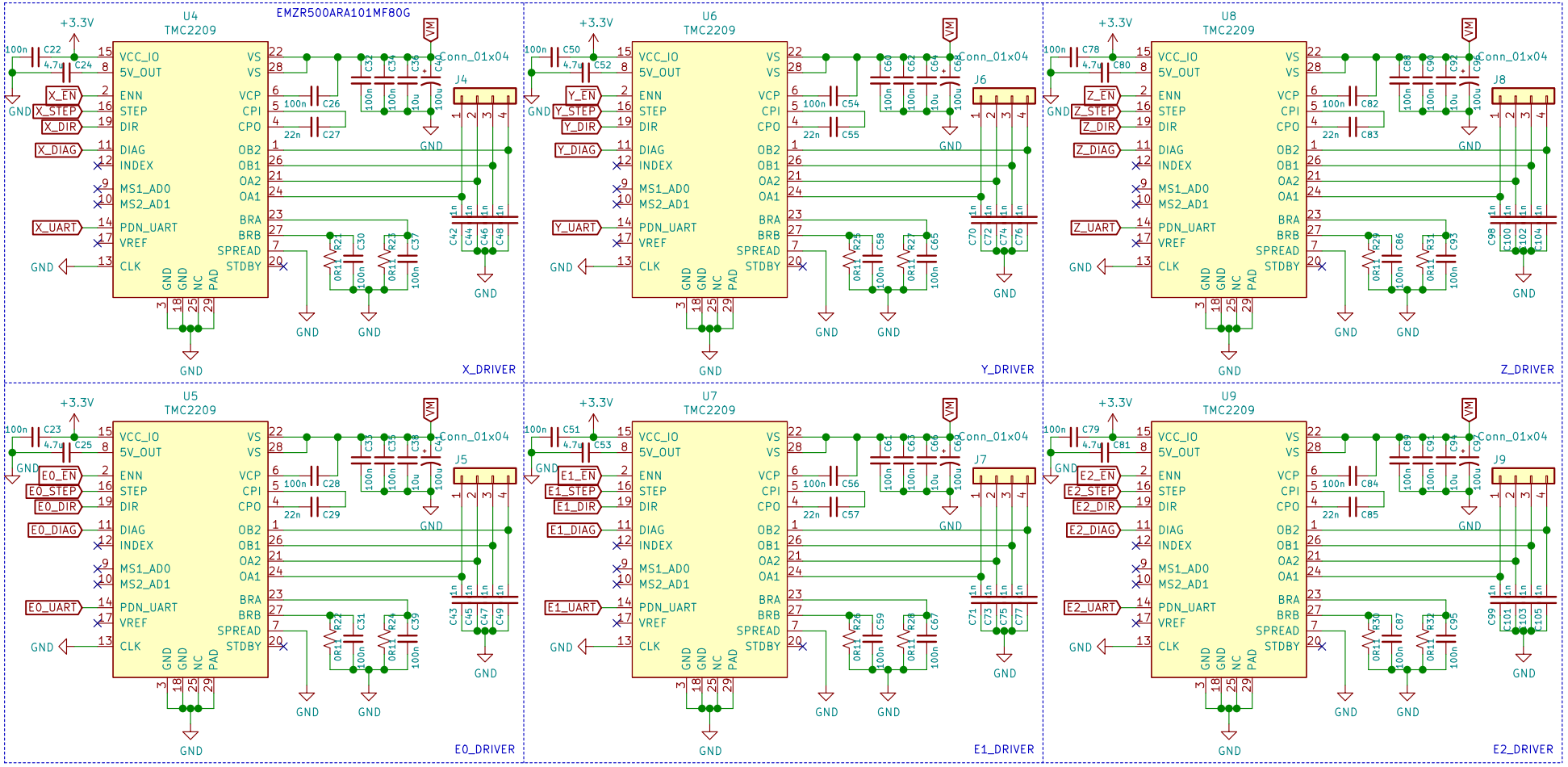
Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])

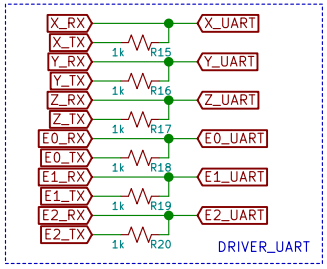
Sheet: /
File: WorkhorseBoard.sch

Title: Workhorse Printer Board

Size: A4	Date: 2020-11-12	**Rev: v0.0**
KiCad E.D.A. kicad (5.1.6)-1		Id: 1/7


STM32F446VETx
U3
SPI Slave Channels:
– SD_CS: PE15
– LCD_SD_CS: PE7
– CS: PA4
EEPROM
USB
EXTRA_GPIO
SD
MOUNTING HOLES
REPRAP FULL GRAPHIC DISPLAY
PERIPHERALS
SWD
Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])
Sheet: /MCU/
File: MCU.sch
Title: Workhorse Printer Board
Size: A4
Date: 2020-11-12
Rev: v0.0
KiCad E.D.A. kicad (5.1.6)-1
Id: 2/7



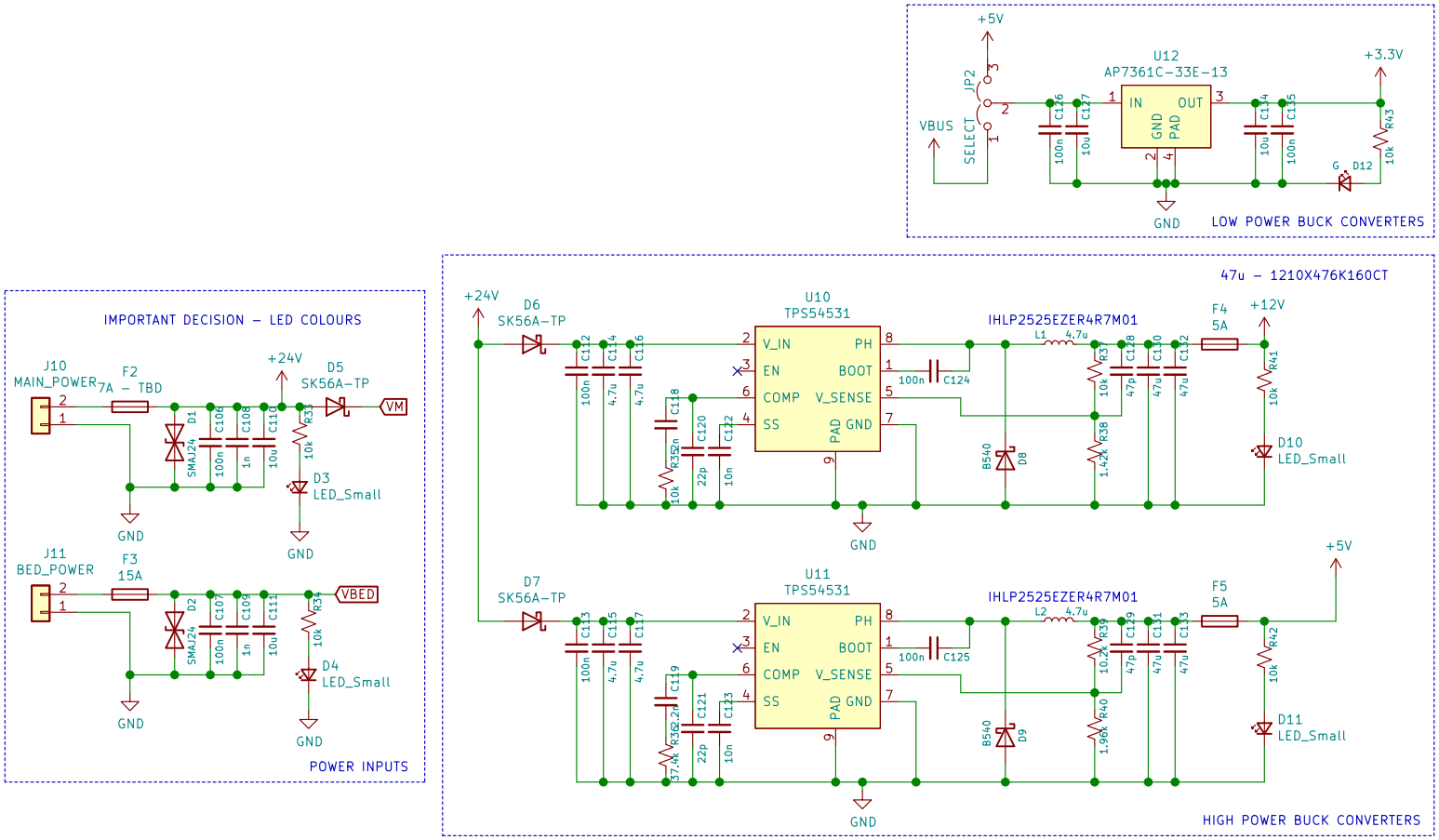


Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])

Sheet: /Steppers/
File: Steppers.sch

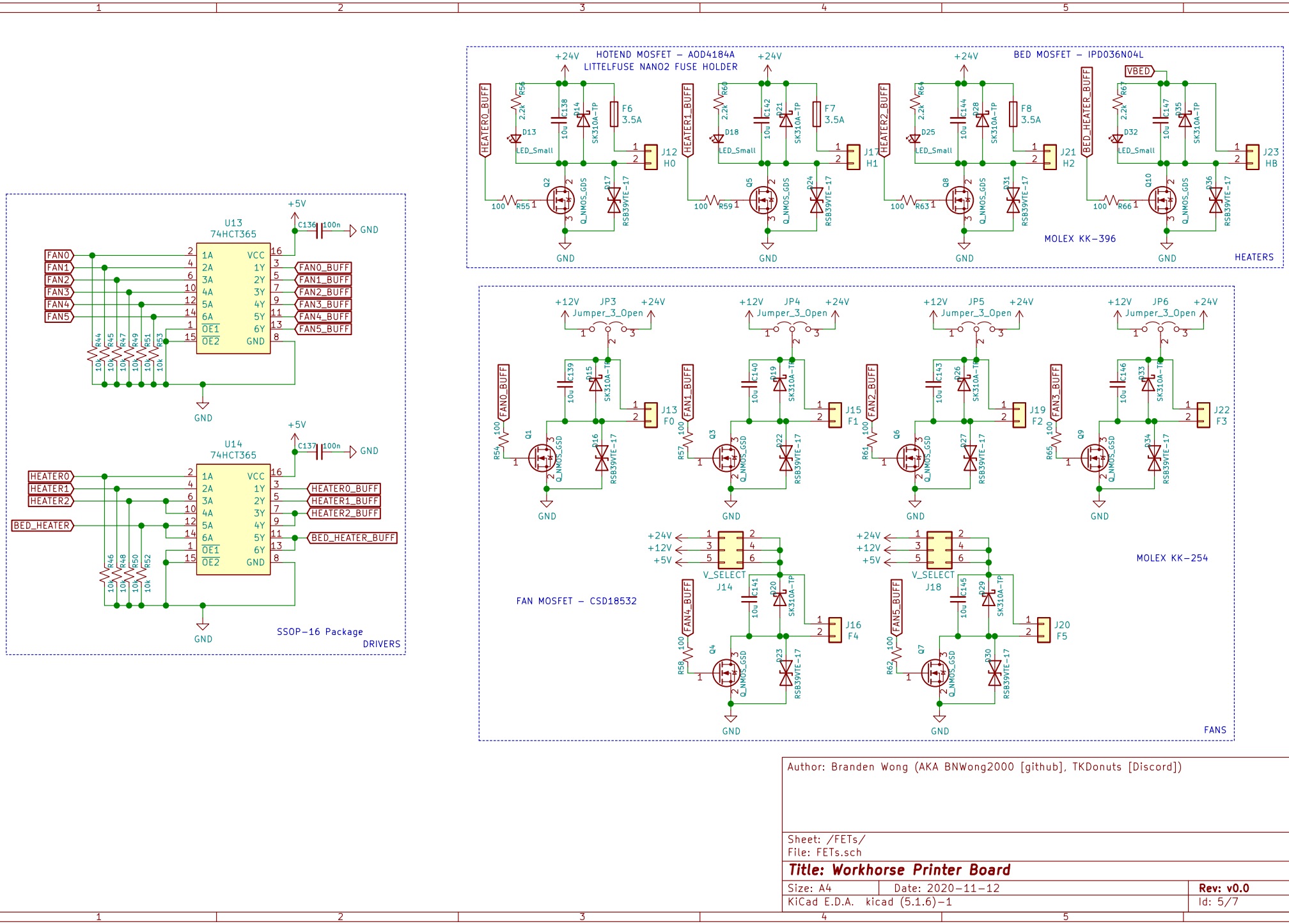
Title: Workhorse Printer Board

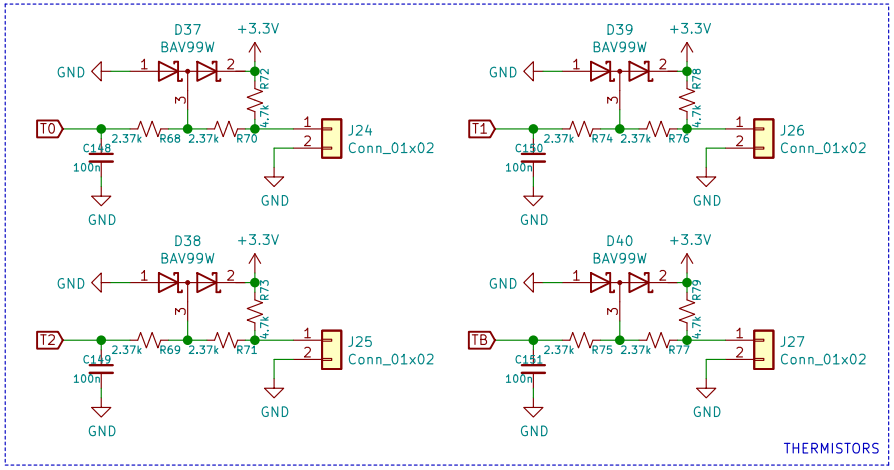
Size: A4	Date: 2020-11-12	**Rev: v0.0**
KiCad E.D.A. kicad (5.1.6)-1		Id: 3/7



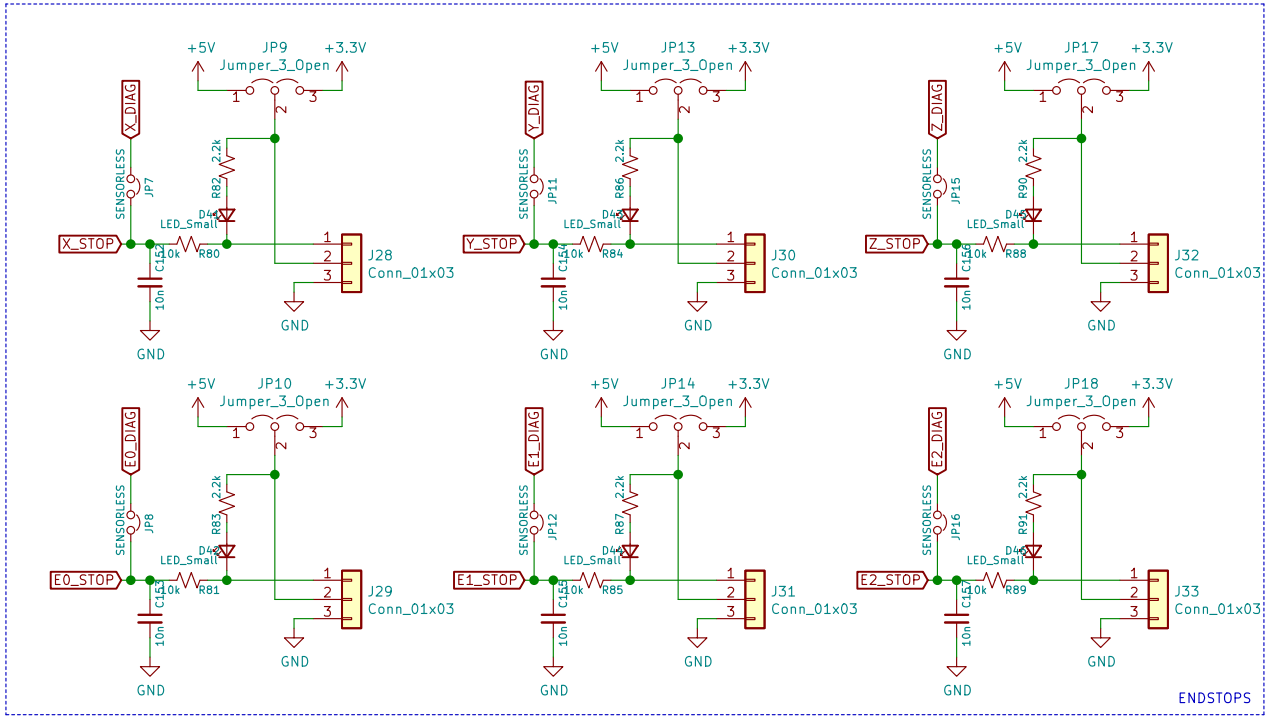
Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])	
Sheet: /Power/ File: Power.sch	
Title: Workhorse Printer Board	
Size: A4	Date: 2020-11-12
KiCad E.D.A. kicad (5.1.6)-1	Id: 4/7

Rev: v0.0


HOTEND MOSFET – AOD4184A
LITTELFUSE NANO2 FUSE HOLDER
BED MOSFET – IPD036N04L
MOLEX KK-396
HEATERS
FAN MOSFET – CSD18532
MOLEX KK-254
FANS
U13
74HCT365
U14
74HCT365
SSOP-16 Package
DRIVERS
Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])
Sheet: /FETs/
File: FETs.sch
Title: Workhorse Printer Board
Size: A4
Date: 2020-11-12
Rev: v0.0
KiCad E.D.A. kicad (5.1.6)-1
Id: 5/7



Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])		
Sheet: /Thermistors/ File: Thermistors.sch		
Title: Workhorse Printer Board		
Size: A4	Date: 2020-11-12	**Rev: v0.0**
KiCad E.D.A. kicad (5.1.6)-1		Id: 6/7



Author: Branden Wong (AKA BNWong2000 [github], TKDonuts [Discord])

Sheet: /Endstops/
File: Endstops.sch

Title: Workhorse Printer Board

Size: A4	Date: 2020-11-12	**Rev: v0.0**
KiCad E.D.A. kicad (5.1.6)-1		Id: 7/7