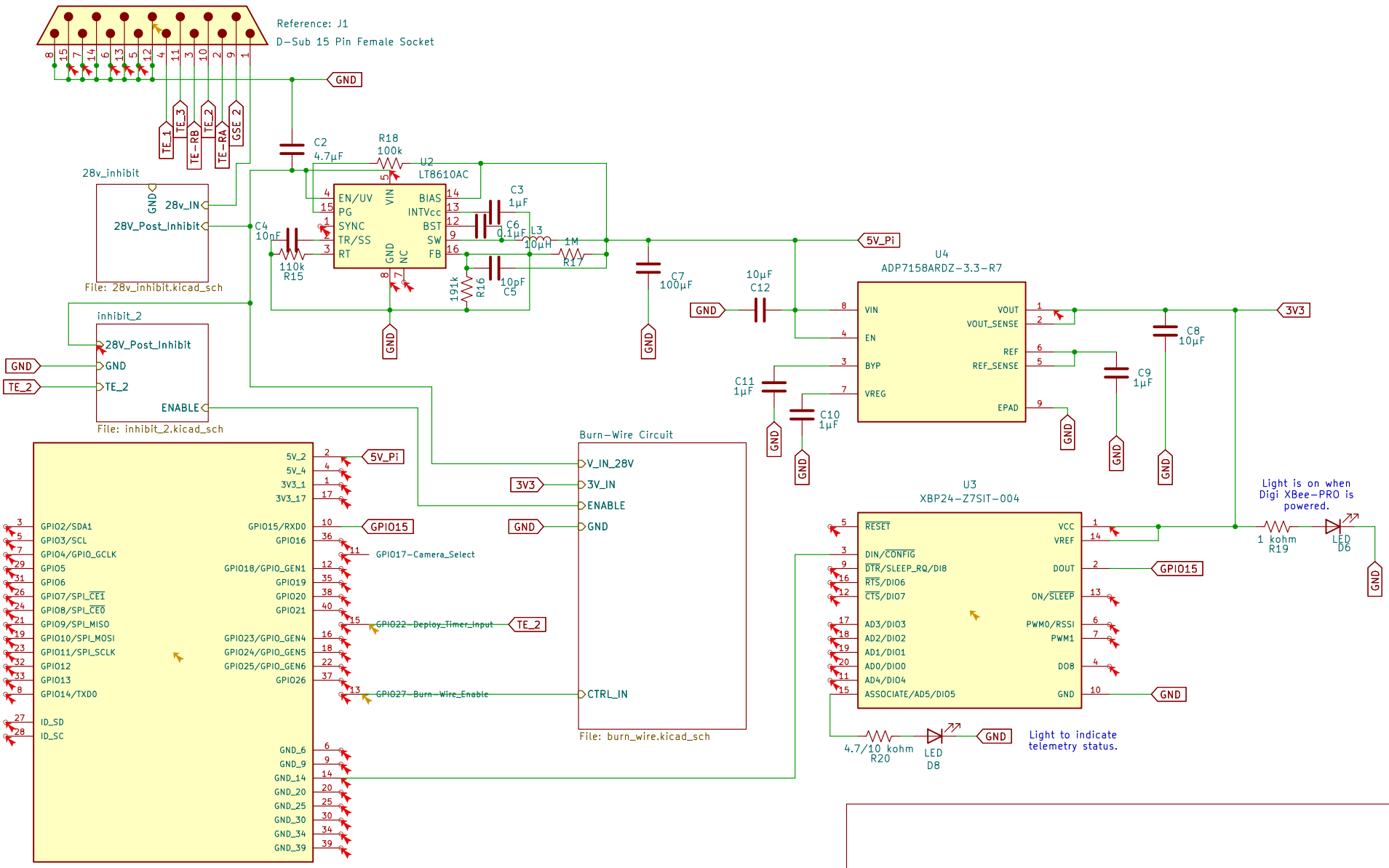
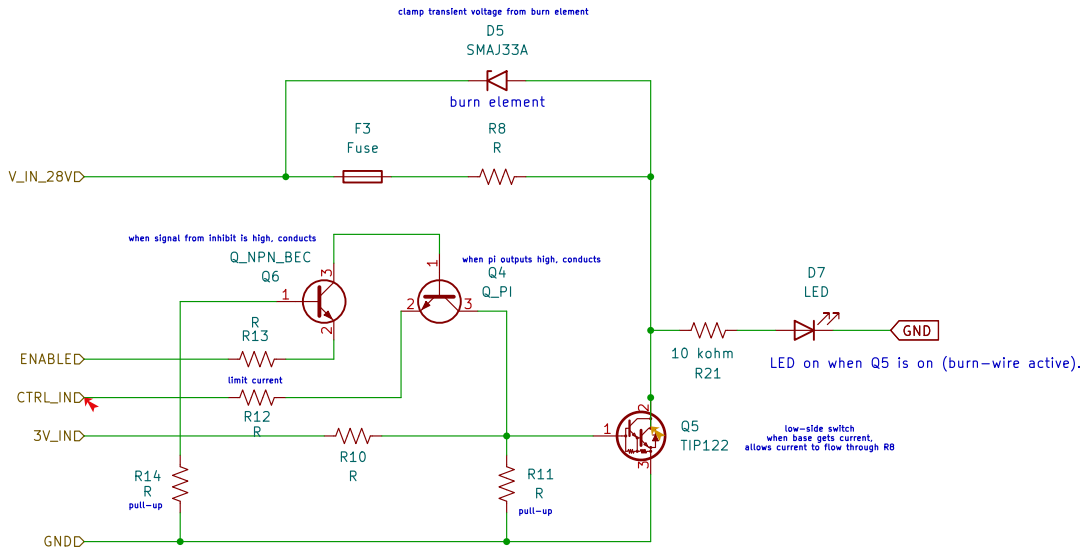
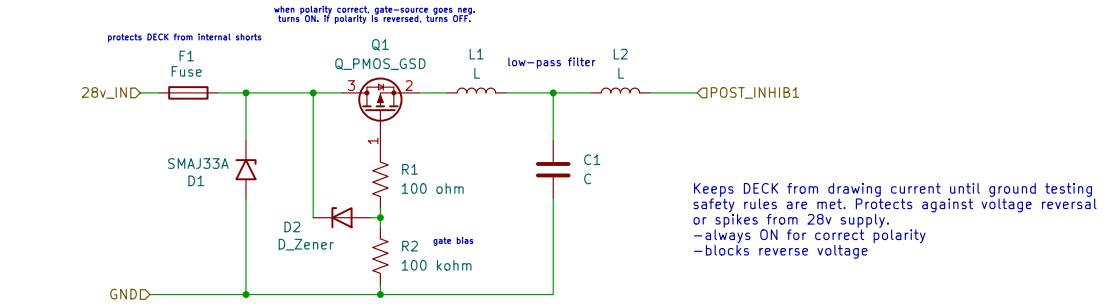
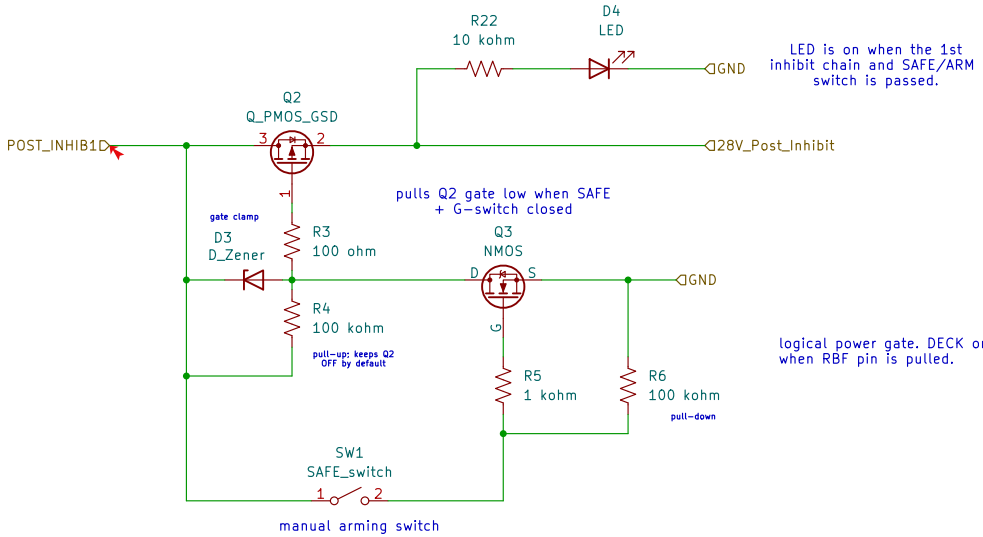

Reference: J1
D-Sub 15 Pin Female Socket
GND
TE_1
TE_3
TE-RB
TE_2
TE-RA
GSE_2
C2
4.7µF
R18
100k
U2
LT8610AC
28v_inhibit
28v_IN
28V_Post_Inhibit
File: 28v_inhibit.kicad_sch
C4
10nF
110k
R15
EN/UV
PG
SYNC
TR/SS
RT
VIN
GND
NC
BIAS
INTVcc
BST
SW
FB
C3
1µF
C6
0.1µF
L3
10µH
1M
R17
191k
R16
10pF
C5
C7
100µF
5V_Pi
U4
ADP7158ARDZ-3.3-R7
10µF
C12
VIN
EN
BYP
VREG
VOUT
VOUT_SENSE
REF
REF_SENSE
EPAD
3V3
C8
10µF
C9
1µF
C11
1µF
C10
1µF
inhibit_2
28V_Post_Inhibit
GND
TE_2
ENABLE
File: inhibit_2.kicad_sch
Burn-Wire Circuit
V_IN_28V
3V3_IN
ENABLE
GND
CTRL_IN
File: burn_wire.kicad_sch
U3
XBP24-Z7SIT-004
RESET
DIN/CONFIG
DTR/SLEEP_RQ/DI8
RTS/DIO6
CTS/DIO7
AD3/DIO3
AD2/DIO2
AD1/DIO1
AD0/DIO0
AD4/DIO4
ASSOCIATE/AD5/DIO5
VCC
VREF
DOUT
ON/SLEEP
PWM0/RSSI
PWM1
DO8
GPIO15
Light is on when Digi XBee-PRO is powered.
1 kohm
R19
LED
D6
4.7/10 kohm
R20
LED
D8
Light to indicate telemetry status.
U1
Raspberry Pi Zero 2 W
5V_2
5V_4
3V3_1
3V3_17
GPIO2/SDA1
GPIO3/SCL
GPIO4/GPIO_GCLK
GPIO5
GPIO6
GPIO7/SPI_CE1
GPIO8/SPI_CE0
GPIO9/SPI_MISO
GPIO10/SPI_MOSI
GPIO11/SPI_SCLK
GPIO12
GPIO13
GPIO14/TXD0
ID_SD
ID_SC
GPIO15/RXD0
GPIO16
GPIO17-Camera_Select
GPIO18/GPIO_GEN1
GPIO19
GPIO20
GPIO21
GPIO22-Deploy_Timer_Input
GPIO23/GPIO_GEN4
GPIO24/GPIO_GEN5
GPIO25/GPIO_GEN6
GPIO26
GPIO27-Burn-Wire_Enable
GND_6
GND_9
GND_14
GND_20
GND_25
GND_30
GND_34
GND_39
Sheet: /
File: deck_boardv1.1.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 9.0.6
Id: 1/4



Sheet: /Burn-Wire Circuit/		
File: burn_wire.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.6		Id: 2/4



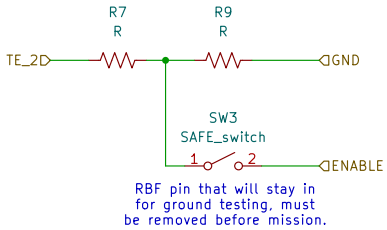
Keeps DECK from drawing current until ground testing safety rules are met. Protects against voltage reversal or spikes from 28v supply.
-always ON for correct polarity
-blocks reverse voltage



LED is on when the 1st inhibit chain and SAFE/ARM switch is passed.

logical power gate. DECK only turns ON when RBF pin is pulled.

Sheet: /28v_inhibit/ File: 28v_inhibit.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.6		Id: 3/4



keeps DECK powered while preventing burn-wire
from firing until TE_2 is achieved.

Sheet: /inhibit_2/		
File: inhibit_2.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.6		Id: 4/4