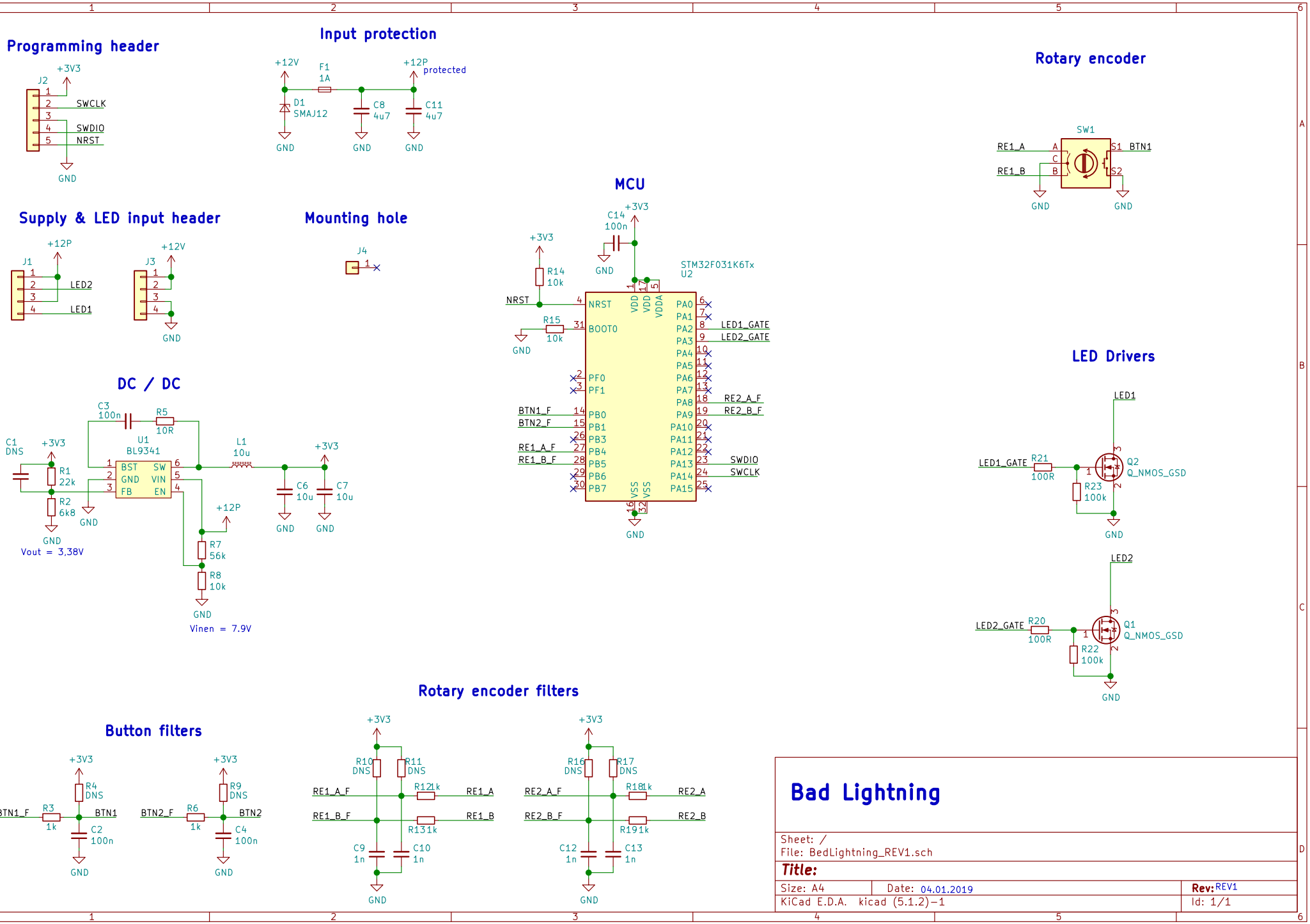
Programming header
J2
+3V3
SWCLK
SWDIO
NRST
GND
Input protection
+12V
F1
1A
+12P
protected
D1
SMAJ12
C8
4u7
C11
4u7
GND
Rotary encoder
SW1
RE1_A
RE1_B
S1
S2
BTN1
Supply & LED input header
J1
J3
+12P
+12V
LED2
LED1
Mounting hole
J4
MCU
STM32F031K6Tx
U2
C14
100n
R14
10k
R15
10k
NRST
BOOT0
PF0
PF1
PB0
PB1
PB3
PB4
PB5
PB6
PB7
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
LED1_GATE
LED2_GATE
RE2_A_F
RE2_B_F
SWDIO
SWCLK
BTN1_F
BTN2_F
RE1_A_F
RE1_B_F
DC / DC
C3
100n
R5
10R
U1
BL9341
BST
GND
FB
SW
VIN
EN
L1
10u
C1
DNS
R1
22k
R2
6k8
C6
10u
C7
10u
R7
56k
R8
10k
Vout = 3,38V
Vinen = 7.9V
LED Drivers
LED1
LED1_GATE
R21
100R
R23
100k
Q2
Q_NMOS_GSD
LED2
LED2_GATE
R20
100R
R22
100k
Q1
Q_NMOS_GSD
Button filters
BTN1_F
BTN2_F
R3
1k
R6
1k
R4
DNS
R9
DNS
C2
100n
C4
100n
Rotary encoder filters
R10
DNS
R11
DNS
R12
1k
R13
1k
C9
1n
C10
1n
RE1_A_F
RE1_B_F
RE1_A
RE1_B
R16
DNS
R17
DNS
R18
1k
R19
1k
C12
1n
C13
1n
RE2_A_F
RE2_B_F
RE2_A
RE2_B
Bad Lightning
Sheet: /
File: BedLightning_REV1.sch
Title:
Size: A4
Date: 04.01.2019
Rev: REV1
KiCad E.D.A. kicad (5.1.2)-1
Id: 1/1