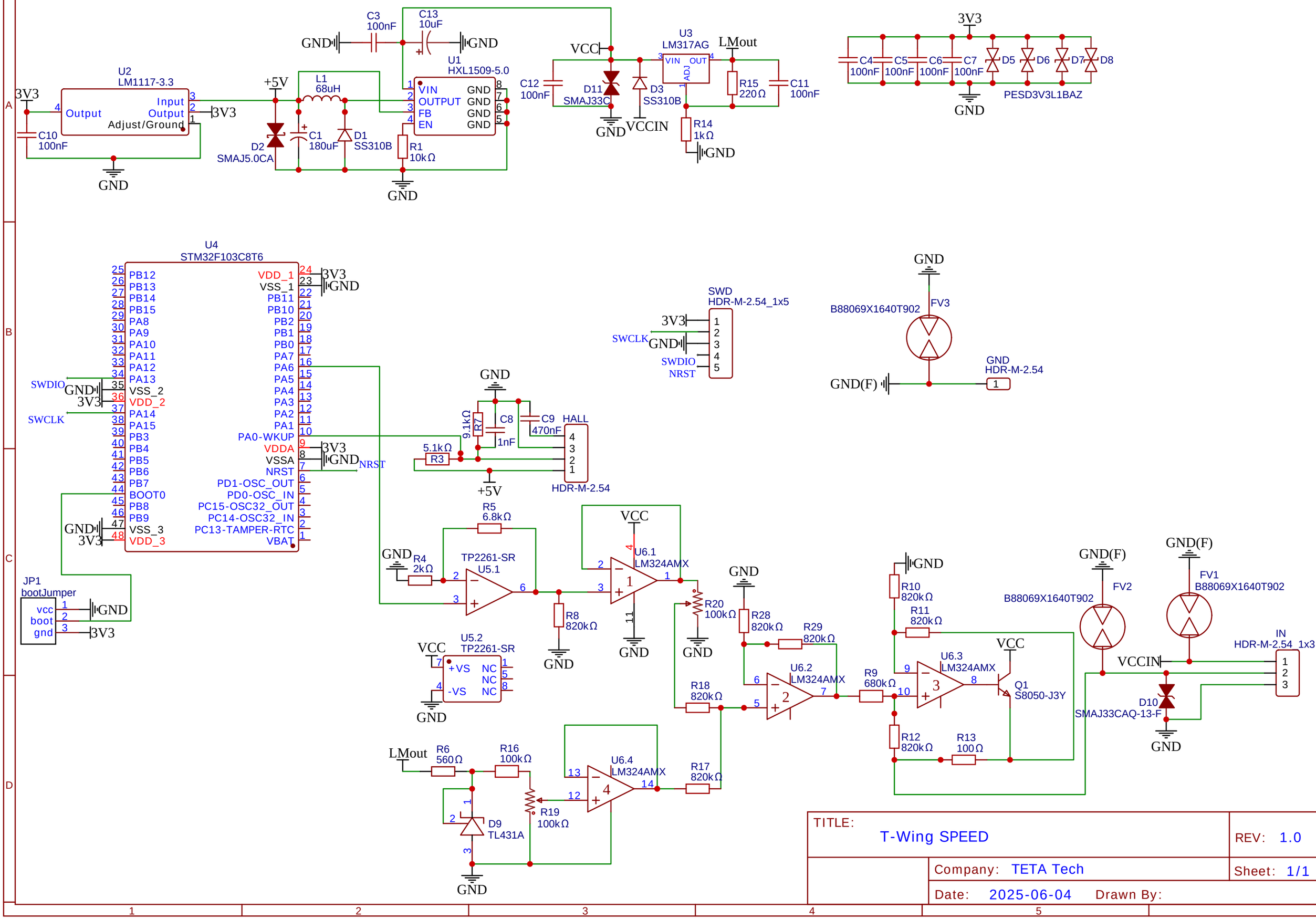
U2
LM1117-3.3
Input
Output
Adjust/Ground
C10
100nF
C3
100nF
C13
10uF
U1
HXL1509-5.0
VIN
OUTPUT
FB
EN
GND
L1
68uH
D2
SMAJ5.0CA
C1
180uF
D1
SS310B
R1
10kΩ
U3
LM317AG
VIN
OUT
ADJ
LMout
R15
220Ω
C11
100nF
R14
1kΩ
C12
100nF
D11
SMAJ33C
D3
SS310B
VCCIN
C4
100nF
C5
100nF
C6
100nF
C7
100nF
D5
D6
D7
D8
PESD3V1L1BAZ
U4
STM32F103C8T6
PB12
PB13
PB14
PB15
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB3
PB4
PB5
PB6
PB7
BOOT0
PB8
PB9
VSS_1
VSS_2
VSS_3
VDD_1
VDD_2
VDD_3
PB11
PB10
PB2
PB1
PB0
PA7
PA6
PA5
PA4
PA3
PA2
PA1
PA0-WKUP
VDDA
VSSA
NRST
PD1-OSC_OUT
PD0-OSC_IN
PC15-OSC32_OUT
PC14-OSC32_IN
PC13-TAMPER-RTC
VBAT
SWDIO
SWCLK
JP1
bootJumper
vcc
boot
gnd
SWD
HDR-M-2.54_1x5
SWCLK
SWDIO
NRST
B88069X1640T902
FV3
GND
HDR-M-2.54
GND(F)
R7
9.1kΩ
C8
1nF
C9
470nF
HALL
R3
5.1kΩ
HDR-M-2.54
R5
6.8kΩ
R4
2kΩ
TP2261-SR
U5.1
U6.1
LM324AMX
R8
820kΩ
R20
100kΩ
U5.2
TP2261-SR
+VS
-VS
NC
R28
820kΩ
R29
820kΩ
U6.2
LM324AMX
R18
820kΩ
R17
820kΩ
R10
820kΩ
R11
820kΩ
U6.3
LM324AMX
R9
680kΩ
Q1
S8050-J3Y
R12
820kΩ
R13
100Ω
FV2
FV1
B88069X1640T902
IN
HDR-M-2.54_1x3
D10
SMAJ33CAQ-13-F
LMout
R6
560Ω
R16
100kΩ
U6.4
LM324AMX
R19
100kΩ
D9
TL431A
TITLE:
T-Wing SPEED
REV: 1.0
Company: TETA Tech
Sheet: 1/1
Date: 2025-06-04
Drawn By: