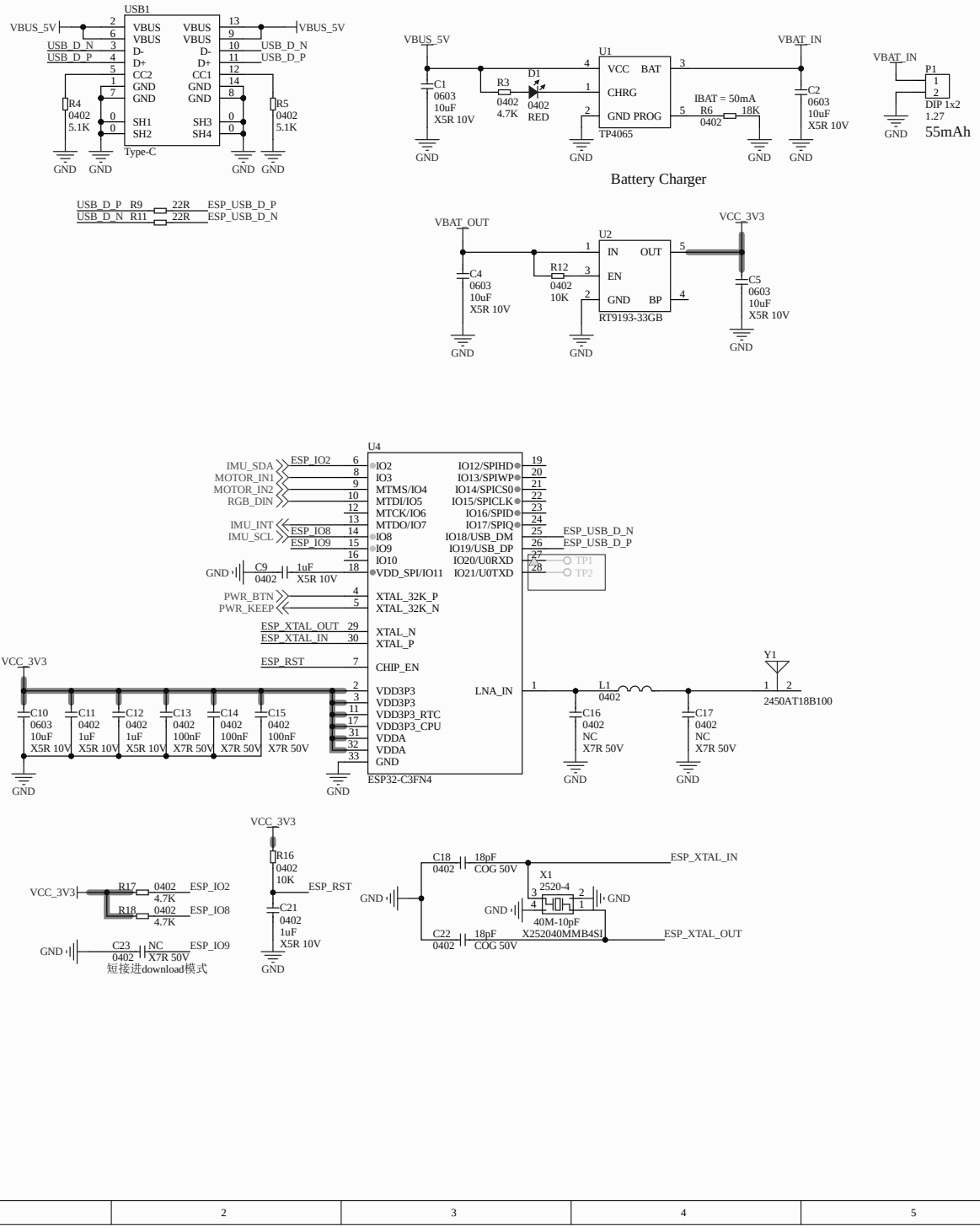
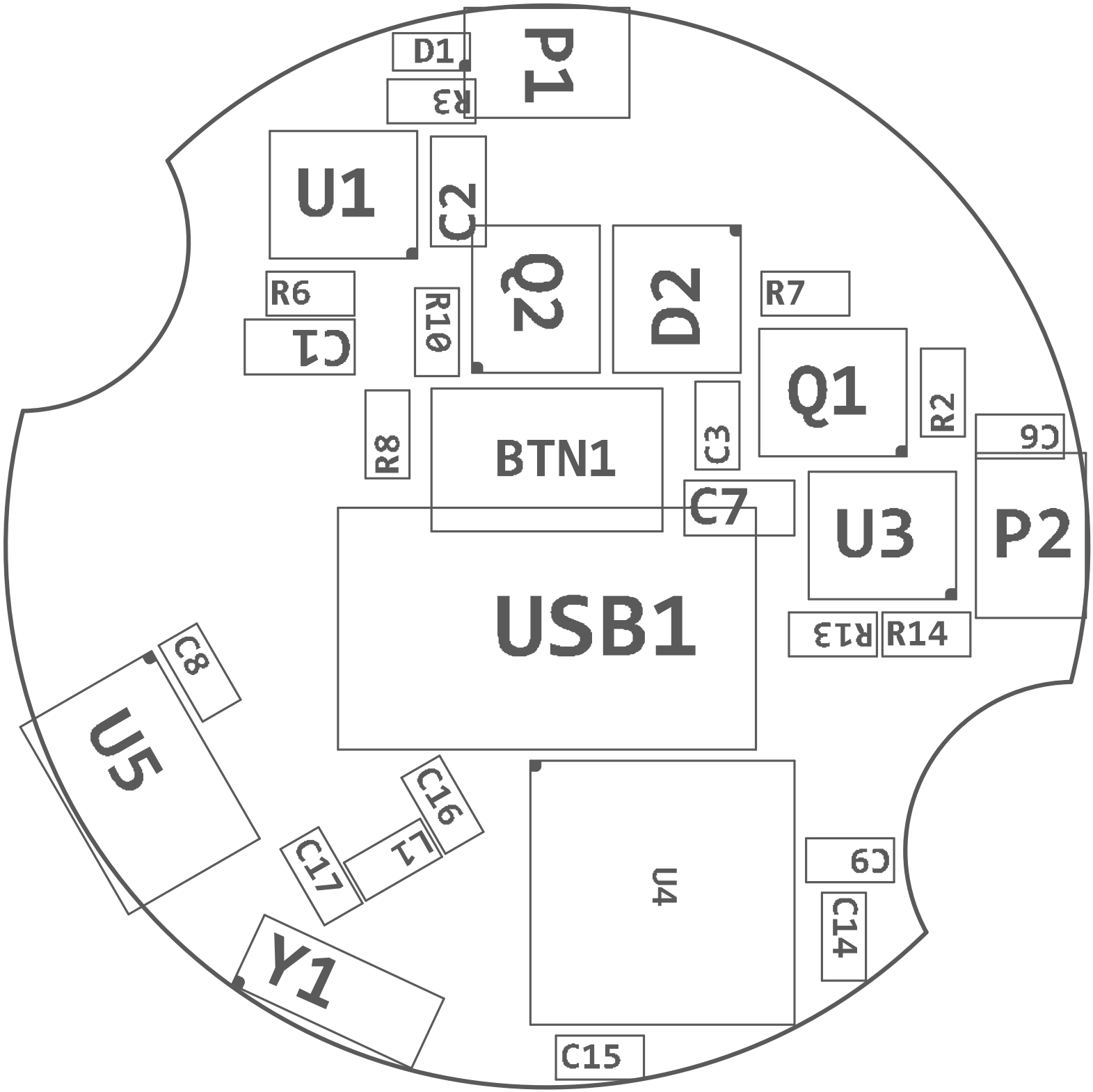
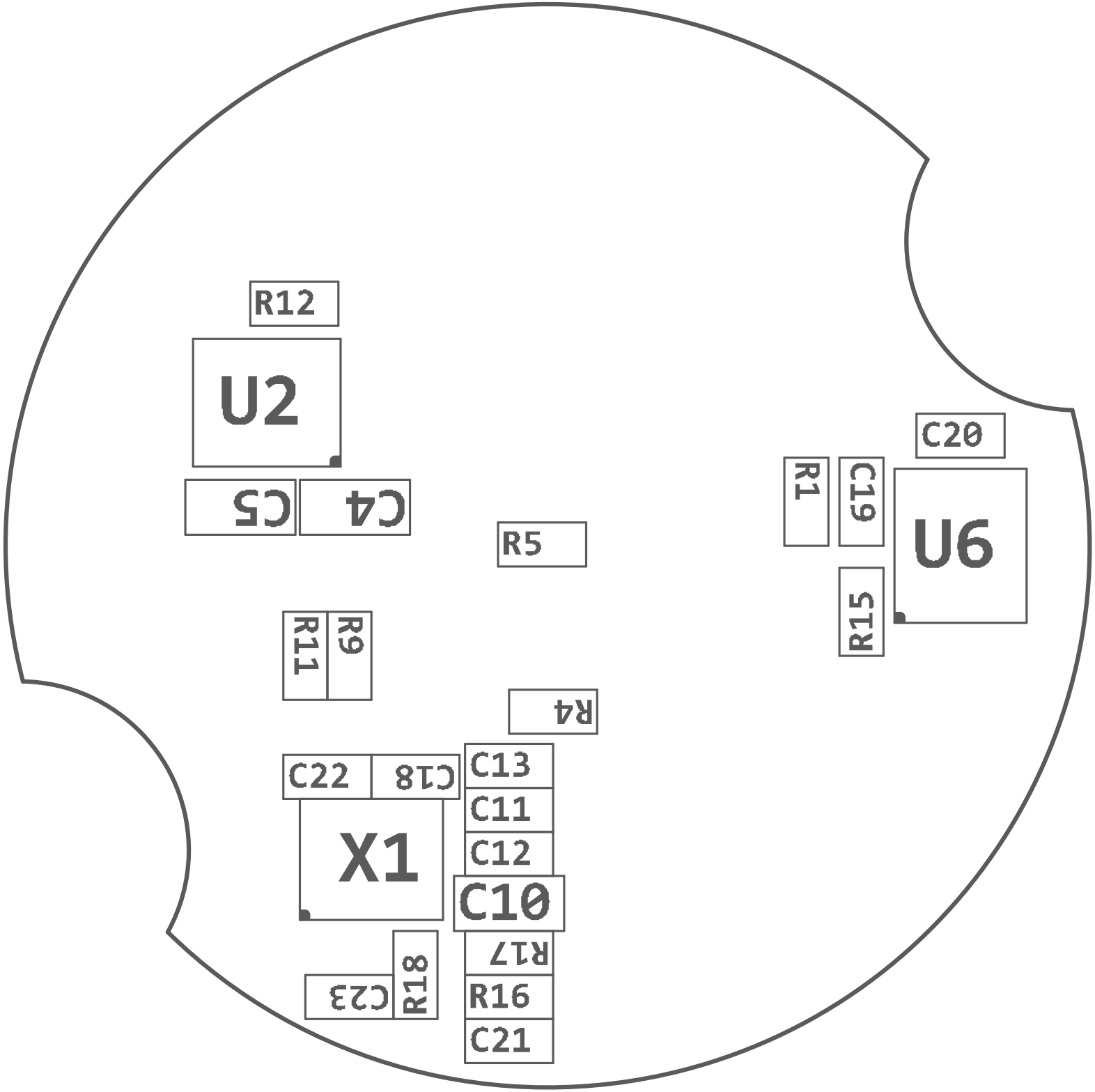


Title		
Size A3	Number	Revision PTA
Date: 2/26/2023		Sheet2 of 2
File: D:\Project\..\[03] MainBoard.SchDoc		Drawn By: Hare


D1
P1
R3
U1
C2
Q2
D2
R7
R6
C1
R10
Q1
R2
R8
BTN1
C3
C6
C7
U3
P2
USB1
R13
R14
C8
U5
C16
C17
L1
U4
C9
C14
Y1
C15


R12
U2
C5
C4
R5
C20
R1
C19
U6
R15
R11
R9
R4
C22
C18
C13
C11
C12
X1
C10
R17
C23
R18
R16
C21

Comment	Description	Designator	Footprint	LibRef	Quantity
PWR Button	Button	BTN1	BTN_2S	Button	1
10uF	Capacitor	C1, C2, C4, C5, C7, C10	CAP_0603	CAP	6
100nF	Capacitor	C3, C6, C13, C14, C15, C19, C20	CAP_0402	CAP	7
1uF	Capacitor	C8, C9, C11, C12, C21	CAP_0402	CAP	5
NC	Capacitor	C16, C17, C23	CAP_0402	CAP	3
18pF	Capacitor	C18, C22	CAP_0402	CAP	2
RED	LED	D1	LED_0402	LED	1
BAT54		D2	SOT-23-3	Diode-2	1
0R	Inductor	L1	IND_0402	IND	1
DIP 1x2	Header	P1, P2	HDR1X2_1.27_180	HDR1x2	2
SI2305	P-Channel MOSFET	Q1	SOT-23-3	MOS-P	1
SS8050	Transistor	Q2	SOT-23-3	BJT_NPN	1
10K	Resistor	R1, R10, R12, R13, R14, R15, R16	RES_0402	RES	7
100K	Resistor	R2, R7	RES_0402	RES	2
4.7K	Resistor	R3, R17, R18	RES_0402	RES	3
5.1K	Resistor	R4, R5	RES_0402	RES	2
18K	Resistor	R6	RES_0402	RES	1
1K	Resistor	R8	RES_0402	RES	1
22R	Resistor	R9, R11	RES_0402	RES	2
TP4065	TP4065线性锂离子电池充电器	U1	SOT-23-5	TP4065	1
RT9193-33GB	LDO	U2	SOT-23-5	RT9193	1
MX113H	电机驱动 VCC=6.5V 条件下最大持续输出电流达到 1A，最大峰值输出电流达到 1.5A；工作电压2V 到 8V	U3	SOT-23-6	MX113H	1
ESP32-C3FN4		U4	QFN-32-5x5-P0.5	ESP32-C3	1
TC3528RGB		U5	LED_3528_RGB	TC3528RGB	1
BMI160	low power IMU	U6	LGA-14-2.5X3.0-P0.5	BMI160	1
Type-C		USB1	USB-C-TH_TYPE-C-USB-14P	USB-Type-C-14P	1
X252040MMB4SI		X1	XTAL_2520-4	XTAL-4P	1
2450AT18B100		Y1	ANT_2.4G_3.2x1.6	ANTENNA	1