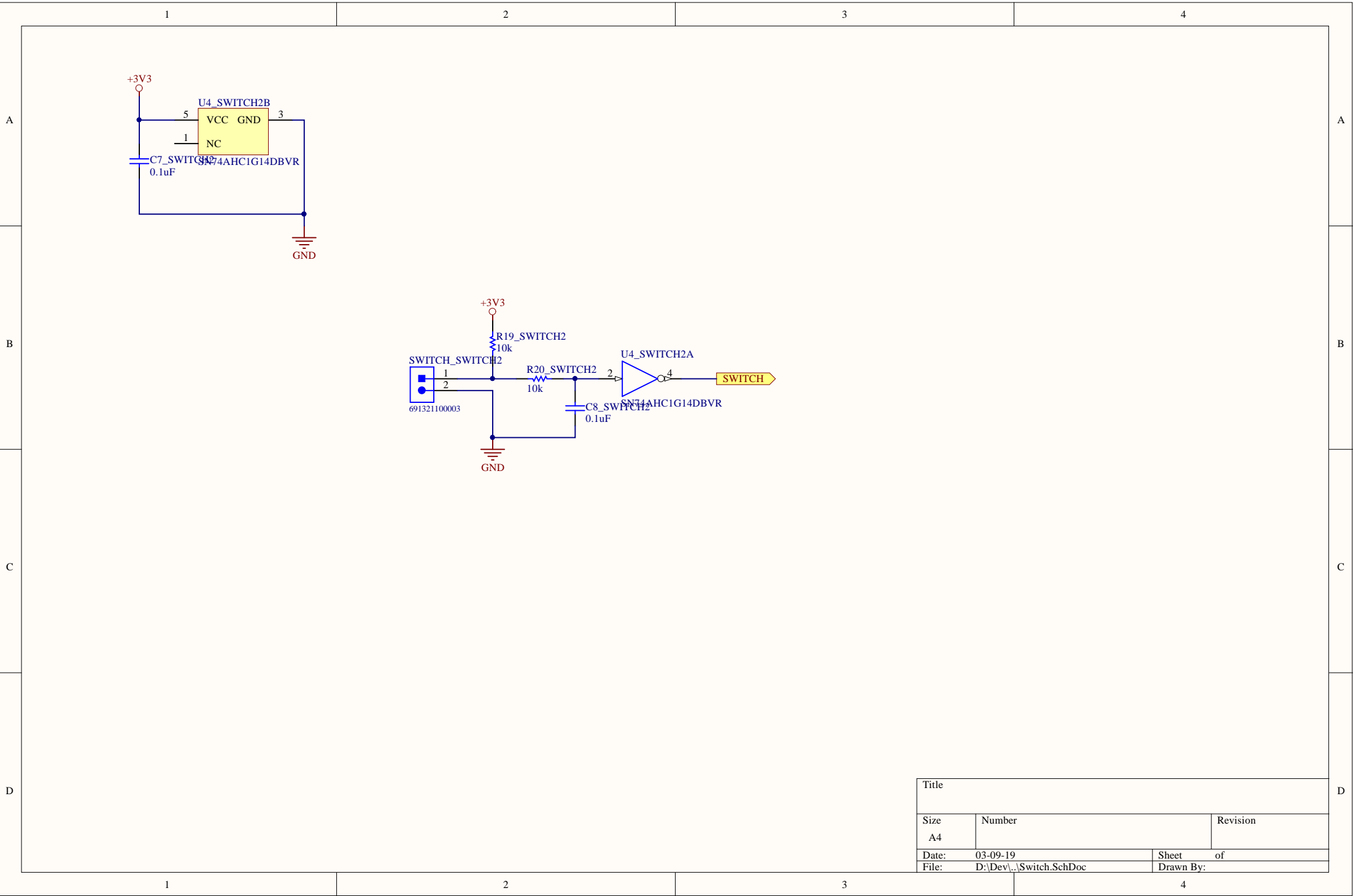
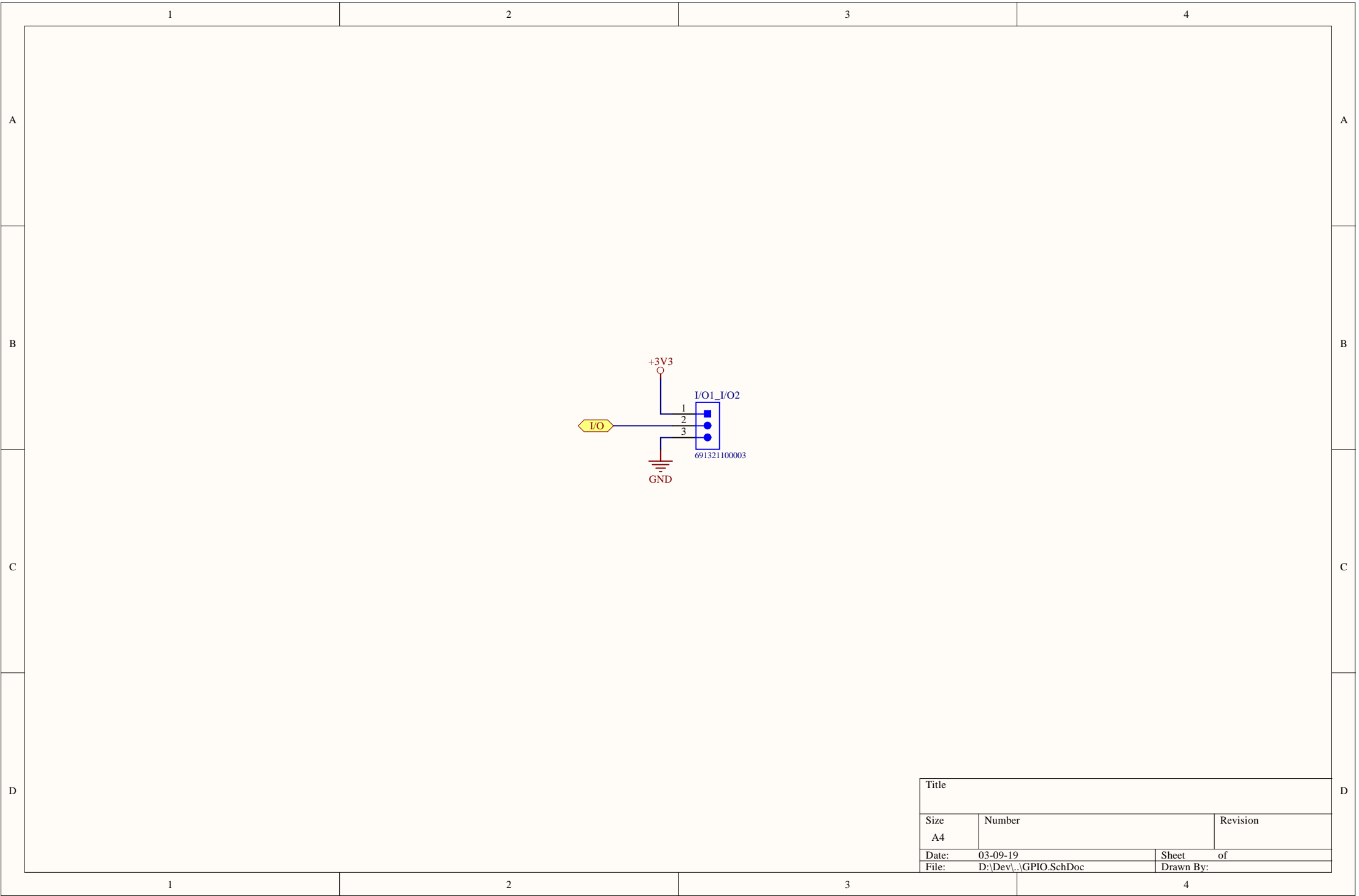


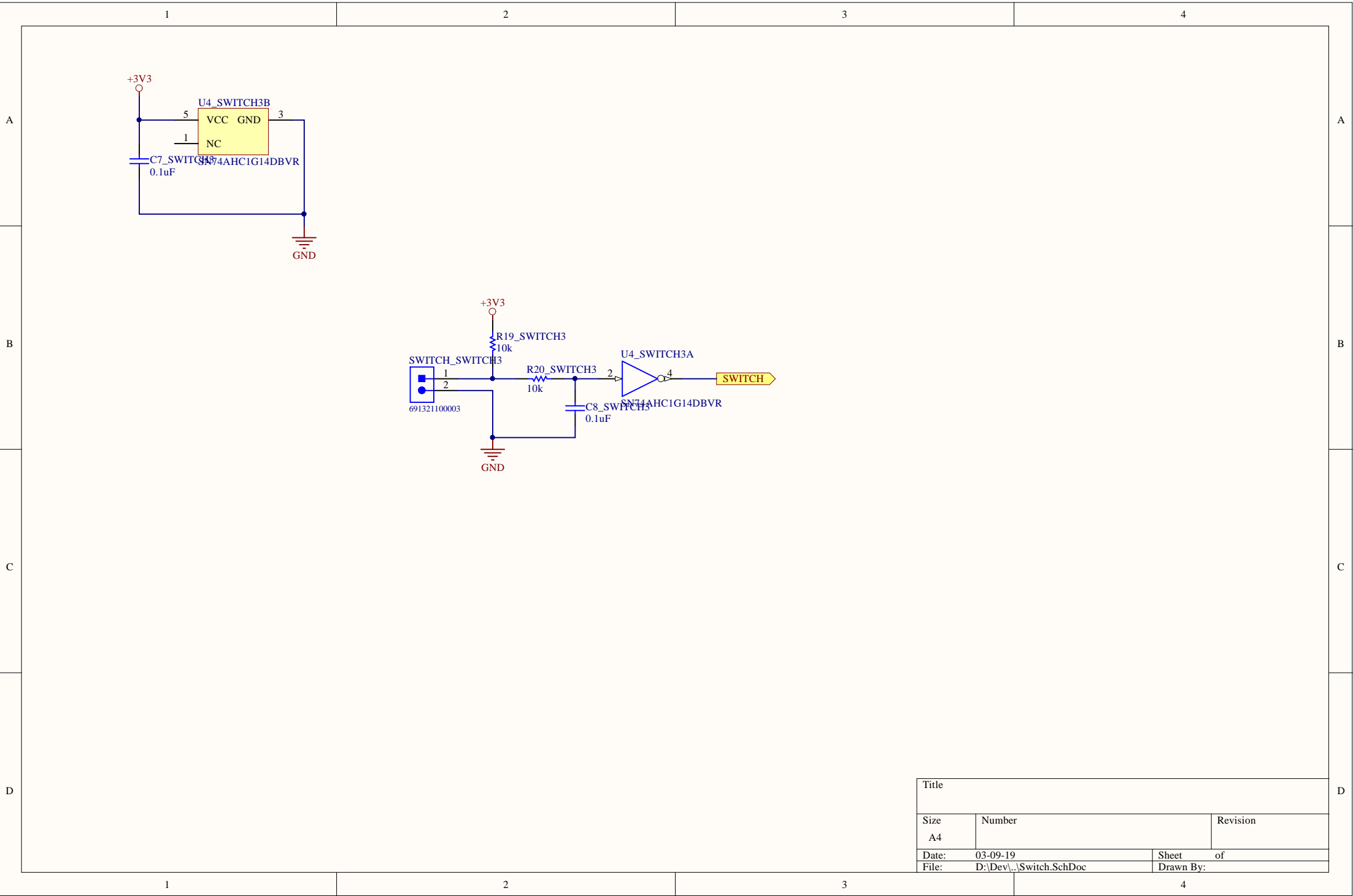
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A4		
Date:	03-09-19	Sheet of
File:	D:\Dev\...\GPIO.SchDoc	Drawn By:



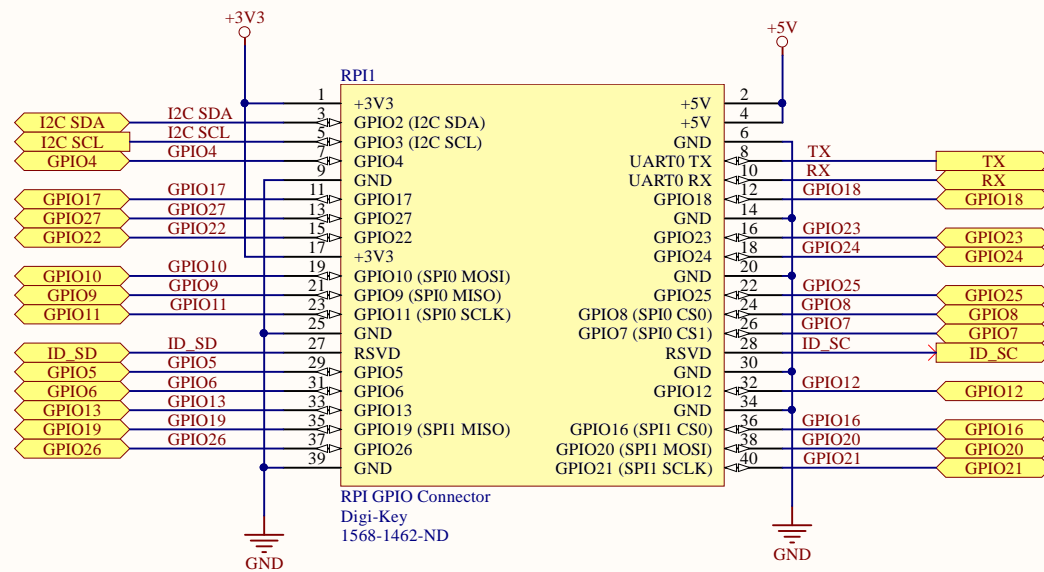
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Date:	03-09-19	Sheet	of
File:	D:\Dev\...\Switch.SchDoc	Drawn By:	

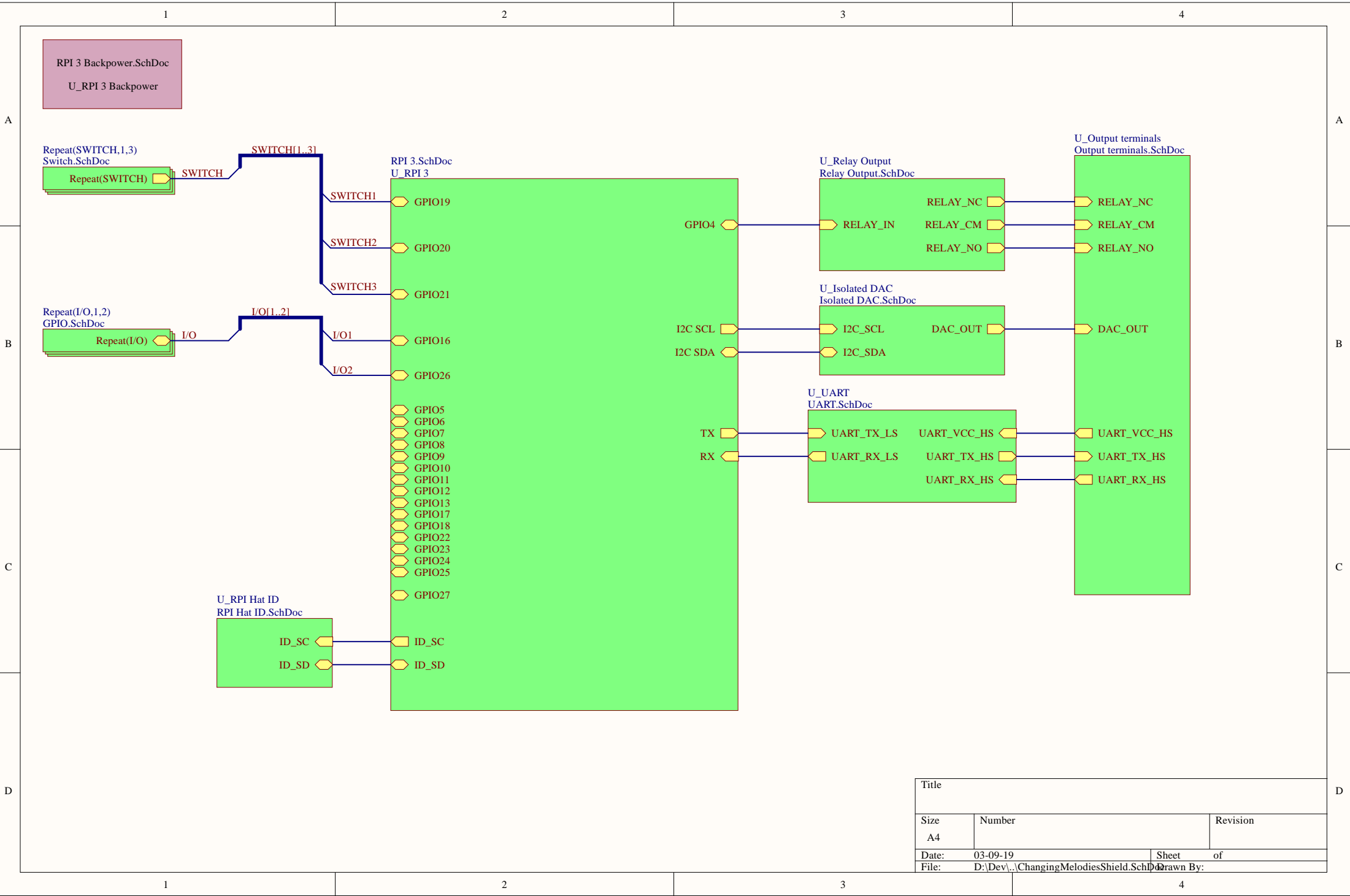


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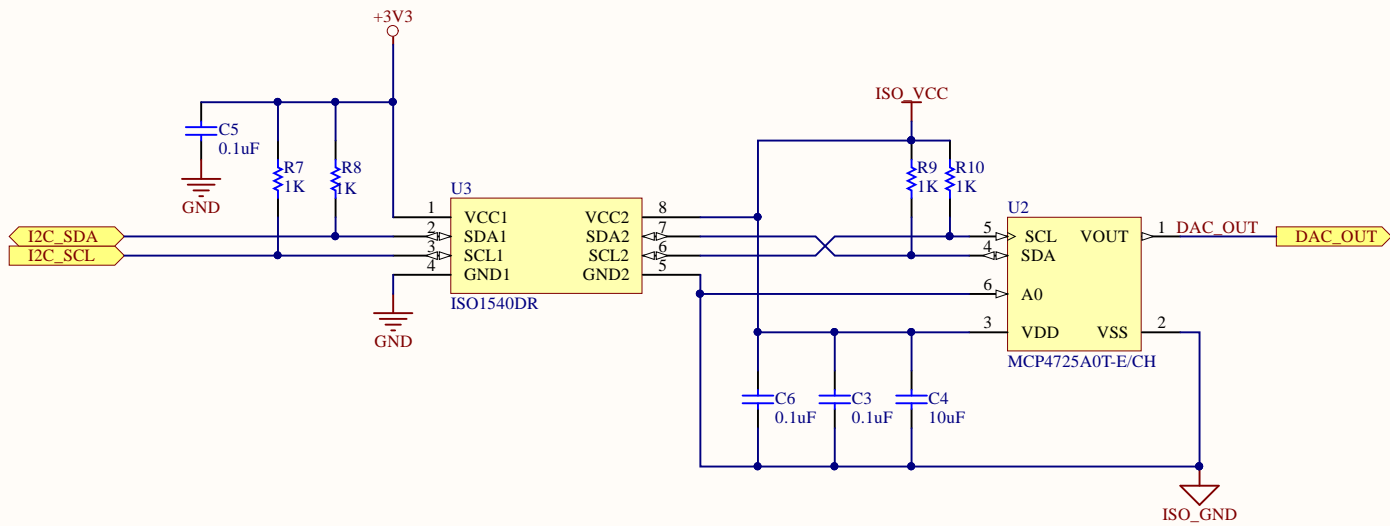


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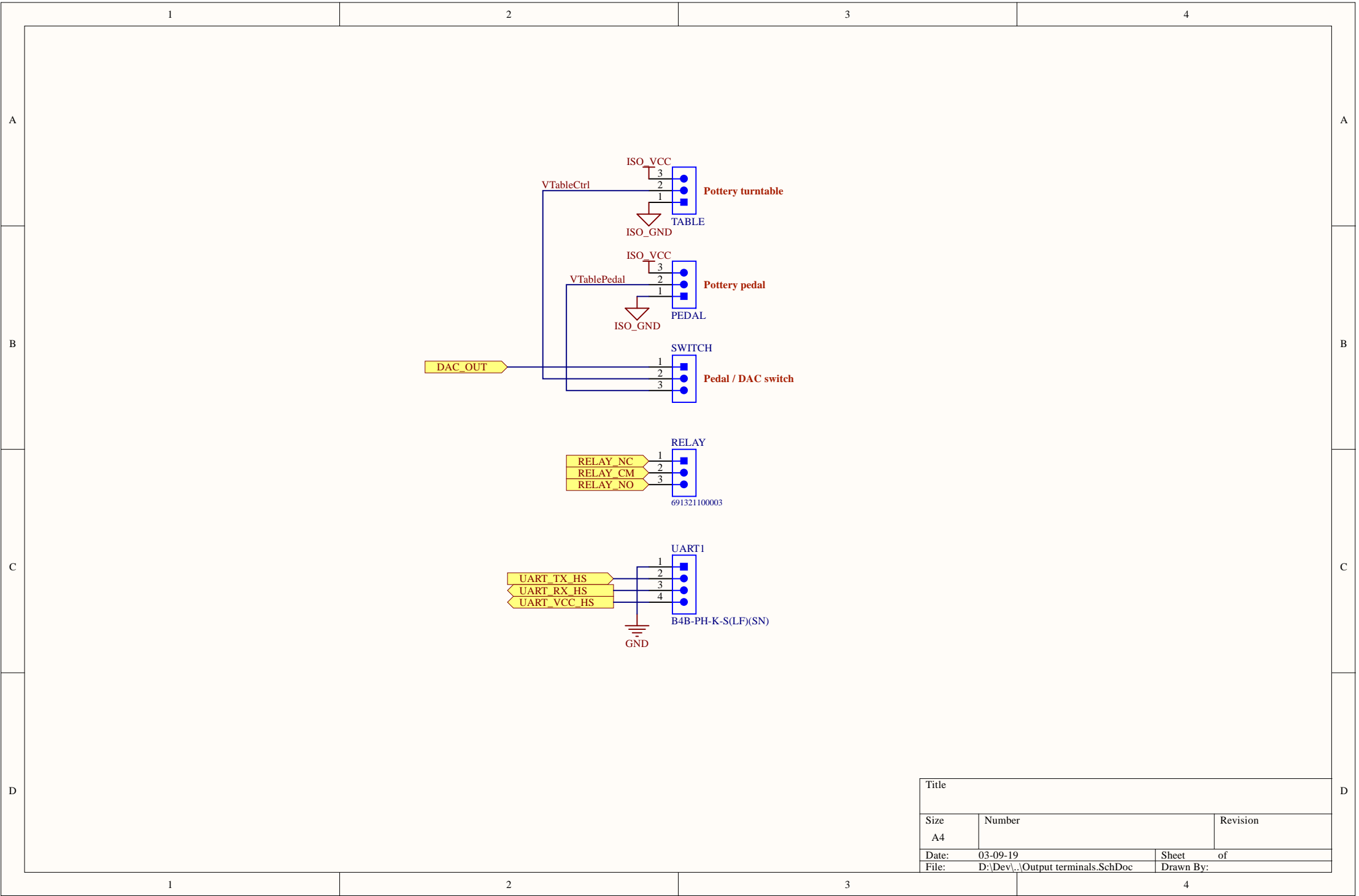


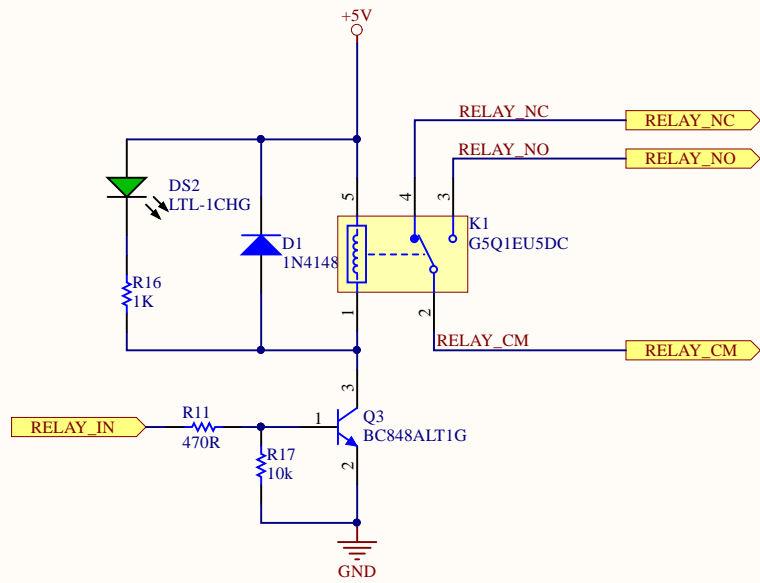
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Date:	03-09-19	Sheet	of
File:	D:\Dev\...\ChangingMelodiesShield.SchDoc		
		Drawn By:	



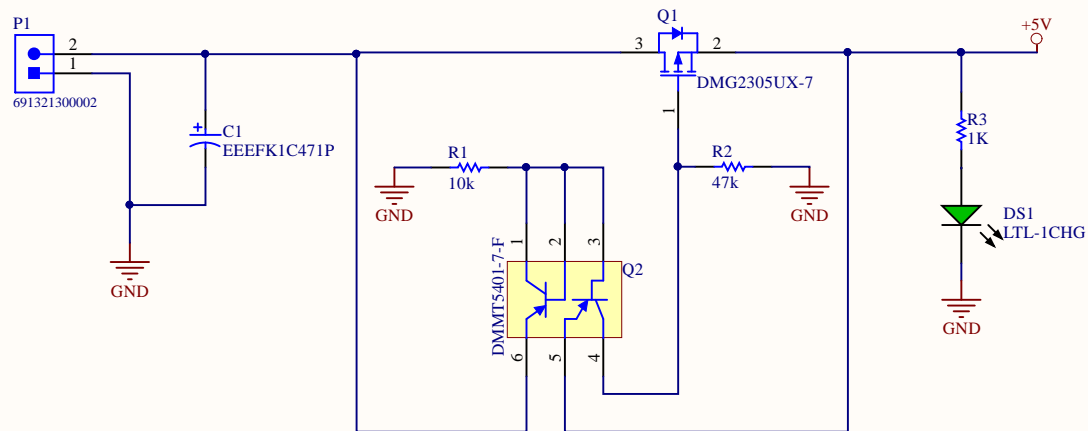
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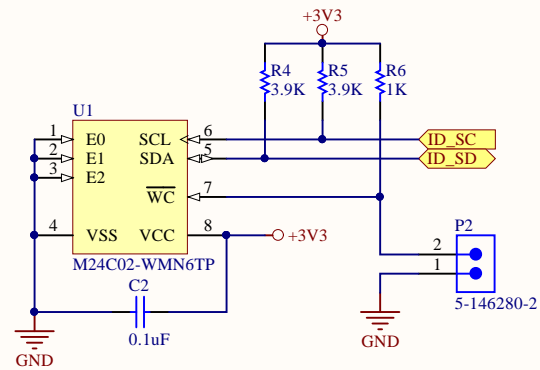




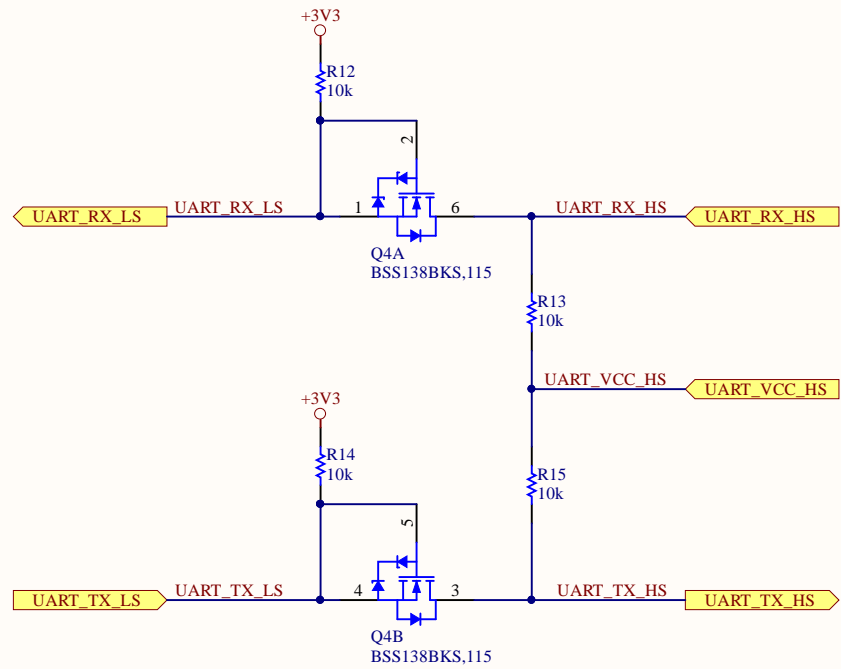
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A4			
Date:	03-09-19	Sheet	of
File:	D:\Dev\...\Relay Output.SchDoc	Drawn By:	



Title			
Size	Number		Revision
A4			
Date:	03-09-19	Sheet	of
File:	D:\Dev\...\RPI 3 Backpower.SchDoc	Drawn By:	



Title			
Size	Number		Revision
A4			
Date:	03-09-19	Sheet	of
File:	D:\Dev\...\RPI Hat ID.SchDoc	Drawn By:	



Title			
Size	Number		Revision
A4			
Date:	03-09-19	Sheet	of
File:	D:\Dev\...\UART.SchDoc	Drawn By:	

ProtoSpace 2019

+5V  
GND

RX  
TX  
GND

UART1

GPI01 3.3V  
GND

GPI02 3.3V  
GND

SW1

SW2

SW3

Changing Melodies  
PI Shield V2.0

SWITCH

FOOT

OUT

DAC

Ctrl

FOOT

RELAY  
NO COM NC

# Bill of Materials

Bill of Materials for Project [ChanginMelodies\_RPiShield.PrjPcb] (No PCB Document Selected)

Source Data From: ChanginMelodies\_RPiShield.PrjPcb  
Project: ChanginMelodies\_RPiShield.PrjPcb  
Variant: None

Creation Date: 03-09-19 09:35  
Print Date: 03-Sep-19 9:35:59 AM

#Column Name	Footprint	Comment	LibRef	Designator	Description	Quantity
	PNSC-FK-V-F	EEEEFK1C471P	CMP-2000-0620	C1	Aluminum Electrolytic Capacitor, 470 uF, +	1
	CAPC1608X8	0.1uF	CMP-2006-0330	C2, C3, C5, C6, C7_SWITCH1,		10
	CAPC1608X9	10uF	CMP-2006-0279	C4		1
	FAIR-SOD-52	1N4148WT	CMP-0881-0000	D1	High Conductance Fast Switching Diode, 7	1
	LTST-LTL-1CH	LTL-1CHG	CMP-1674-0001	DS1_DS2	LITE-ON Electronic, INC, 120 mA, 100 mV	2
	691321100003	691321100003	CMP-1502-0178	I/O1 I/O1 I/O1 I/O2_RELAY	Series 3211 - 3.50mm Vertical PCB Header	3
	G5Q1EU5DC	G5Q1EU5DC	G5Q1EU5DC	K1	OMRON - G5Q-1EU 5DC - RELAY, SPDT,	1
	691321300000	691321300002	CMP-1502-0186	P1	Series 321 - 3.81mm Vertical PCB Header V	1
	TECO-5-1462	5-146280-2	CMP-2000-0749	P2	Male Header, Pitch 2.54 mm, 1 x 2 Positio	1
	691321300000	691321300003	CMP-1502-0186	PEDAL_SWITCH_TABLE	Series 321 - 3.81mm Vertical PCB Header V	3
	DIOD-SOT23	DMG2305UX-7	CMP-1693-0000	Q1	P-Channel Enhancement Mode MOSFET, 2	1
	DIOD-SOT-28	DMMT5401-7-F	CMP-1667-0000	Q2	Matched PNP Small Signal Surface Mount	1
	ONSC-SOT-2	BC848ALT1G	CMP-1048-0069	Q3	General Purpose Transistor, NPN Silicon, 3	1
	NXP-SOT363	BSS138BKS,115	CMP-1259-0011	Q4	Dual N-Channel Trench MOSFET, 60 V, 0.3	1
	RESC1609X5	10k	CMP-2000-0745	R1, R12, R13, R14, R15, R17,	Chip Resistor, 10 KOhm, +/- 1%, 0.1 W, -	12
	RESC1608X5	47k	CMP-2000-0484	R2		1
	RESC1608X5	1K	CMP-2000-0018	R3, R7, R8, R9, R10, R16		6
	RESC1608X5	3.9K	CMP-2000-0018	R4, R5		2
	RESC1608X5	1K	CMP-2000-0018	R6		1
	RESC0603	16470R	CMP-1012-0047	R11	470R 0.1W 1% 0603 (1608 Metric) SMD	1
	rpi	RPI GPIO Conn	rpi connector	RP11	GPIO Header for Raspberry Pi A+/B+/Pi 2	1
	691321100002	691321100003	CMP-1502-0178	SWITCH_SWITCH1, SWITCH_SWITCH2	Series 3211 - 3.50mm Vertical PCB Header	3
	STM-M24C02	M24C02-WMN6T	CMP-2000-0537	U1	EEPROM Serial-I2C, 2Kbit, 2.5 to 5.5 V, 40	1
	SOT-23-CH6	MCP4725A0T-E	CMP-0188-0076	U2	12-Bit Digital-to-Analog Converter with EEP	1
	ISO1540DR	ISO1540DR	ISO1540DR	U3	DGTL ISO 2.5KV 2CH I2C 8SOIC	1
	DBV0005A_L	SN74AHC1G14	CMP-2000-0713	U4_SWITCH1, U4_SWITCH2	Single Schmitt-Trigger Inverter Gate, 10,6	3
	JST-B4B-PH	B4B-PH-K-S(LF)	CMP-2000-0516	UART1	Male Header, Pitch 2 mm, 1 x 4 Position,	1
						62

Approved	Notes