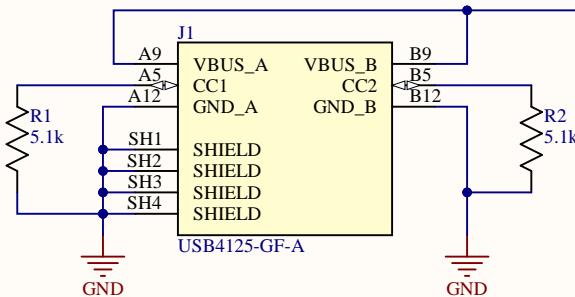
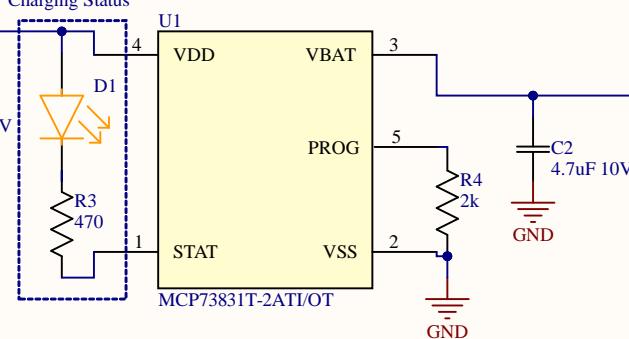


USB-C

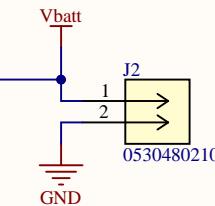
Used exclusively to charge battery.



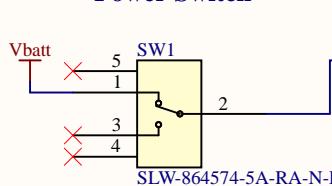
USB-C plug will be placed on edge of the PCB for access through housing.

Power Charger**Li Ion Battery**

LP384260JU+PCM+MOLEX 51021-0200 35MM

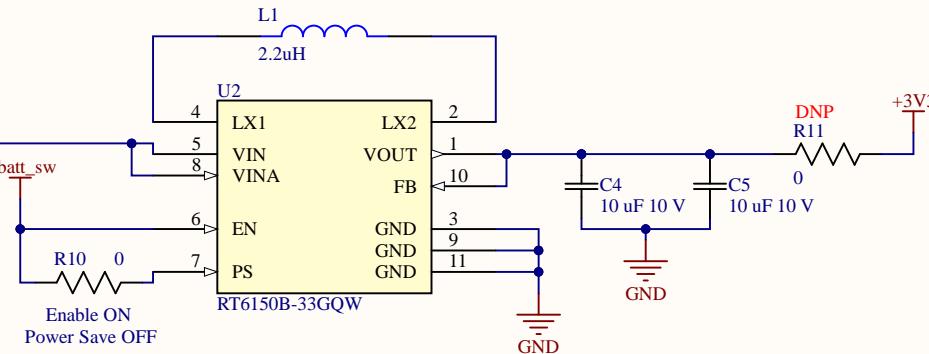


Connector will be placed on edge of the PCB to connect to battery located underneath.

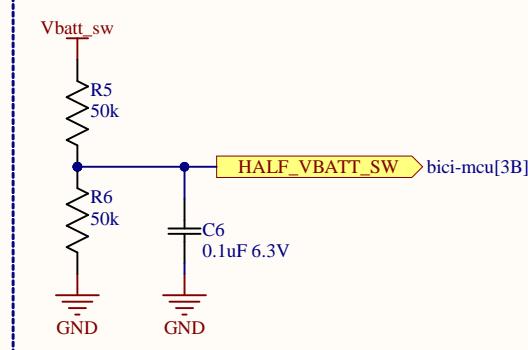
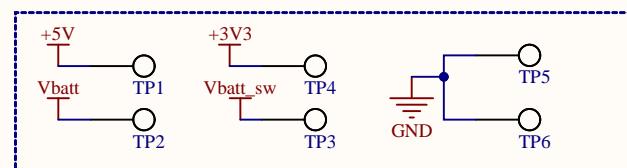
Power Switch

Switch in L position: ON
Switch in R positon: OFF

Switch will be placed on edge of the PCB for access through housing.

Buck-Boost

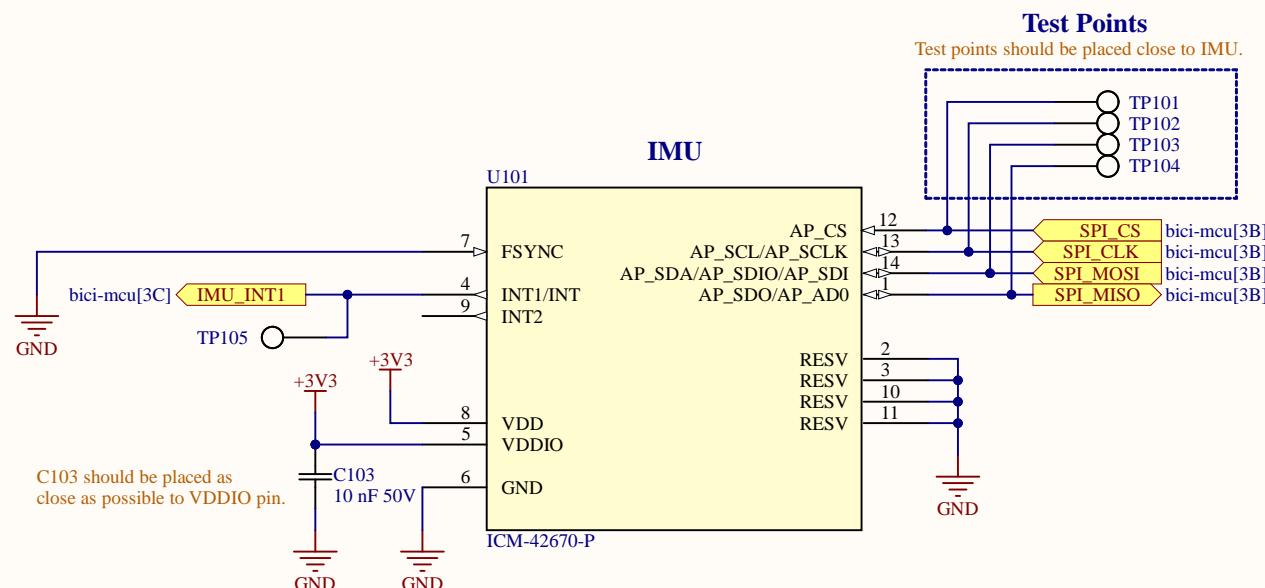
C3 should be placed as close as possible to Vin.
C4 and C5 should be placed as close as possible to Vout.
L1 should be connected to inductor by wide and short trace.

Low Power Detection**Test Points**

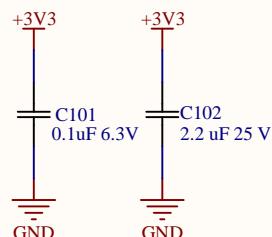
Title **Bici: Power Management**
Circuitry related to system power and charging.

Size	Number	Revision
A		V5
Date:	2/17/2026	Sheet 1 of 5
File:	C:\Users\...\bici-power.SchDoc	Drawn By: Team Bici

A



B



C

C101 and C102 should be placed as close as possible to VDD pin, with C101 closest to pin.

A

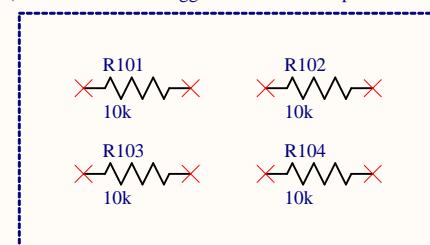
B

C

D

Spare 0603 Footprints

(Not on BOM) To make for easier soldering if we need to add a voltage divider (for eg) later.
(Per Mike Kofron's suggestion at Fall final presentation.)



Title		
Bici: IMU Circuitry related to IMU.		
Size	Number	Revision
A		V5
Date:	2/17/2026	Sheet 2 of 5
File:	C:\Users\.\bici-imu.SchDoc	Drawn By: Team Bici

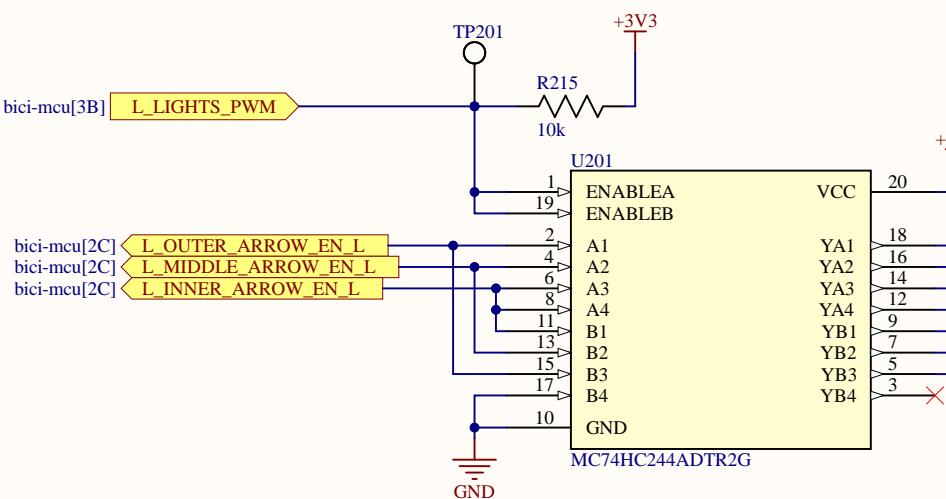
1

2

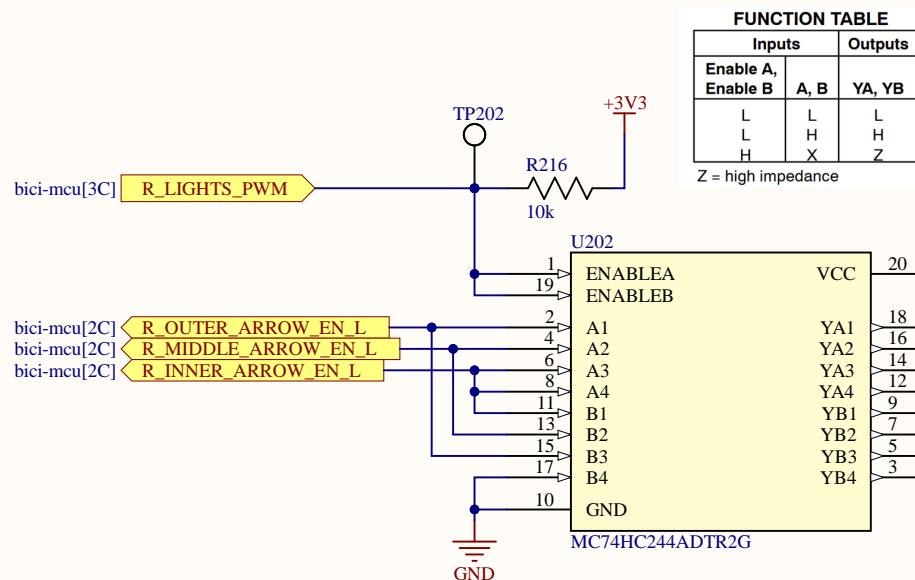
3

4

A

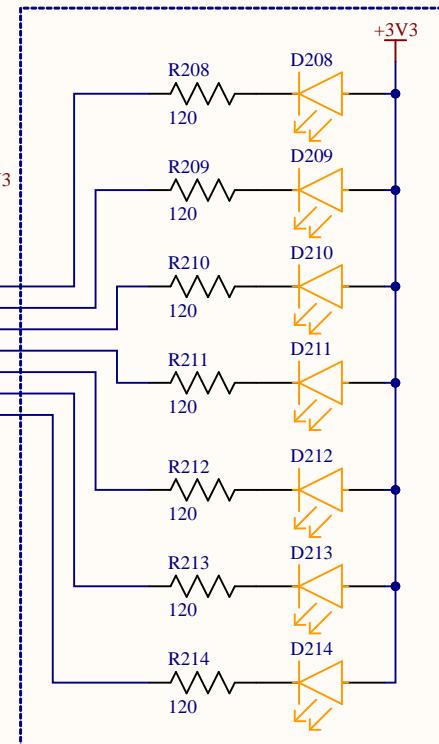


B

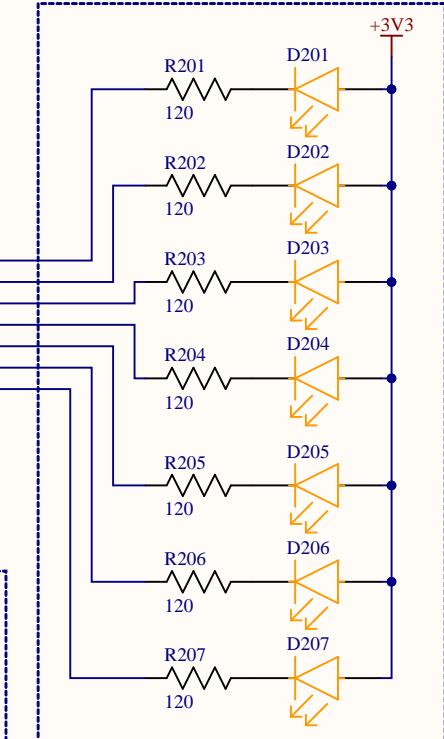


C

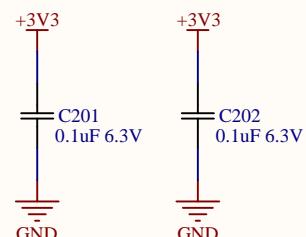
Right Indicator Light Circuit



Left Indicator Light Circuit



D



C202 should be placed as close as possible to U202 VCC pin.
C201 should be placed as close as possible to U201 VCC pin.

Title

Bici: Turn Signal Lights

Circuitry related to light feedback to surrounding cars.

Revision V5

Size

A

Number

Date:

2/17/2026

Sheet 3 of 5

File:

C:\Users\...\bici-turn-lights.SchDoc

Drawn By: Team Bici

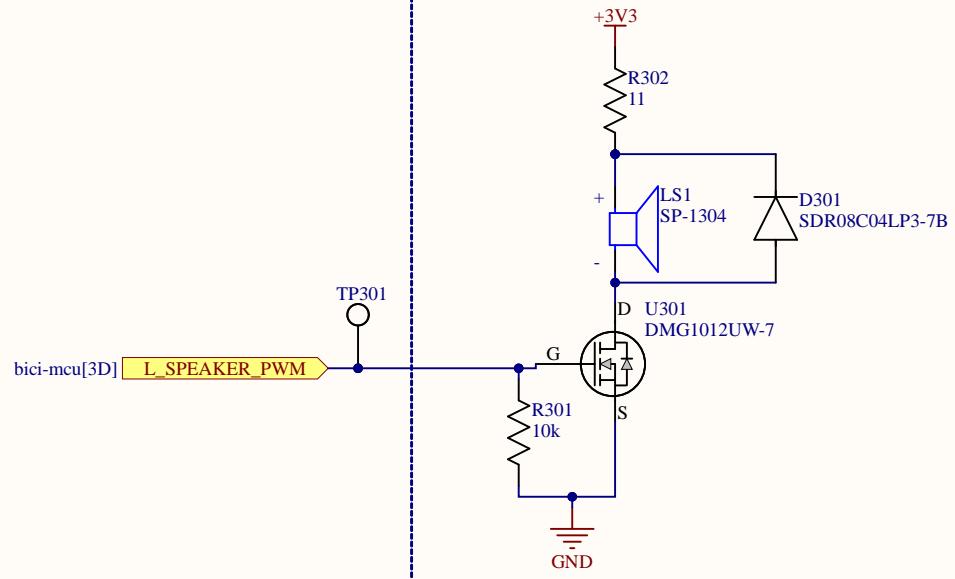
1

2

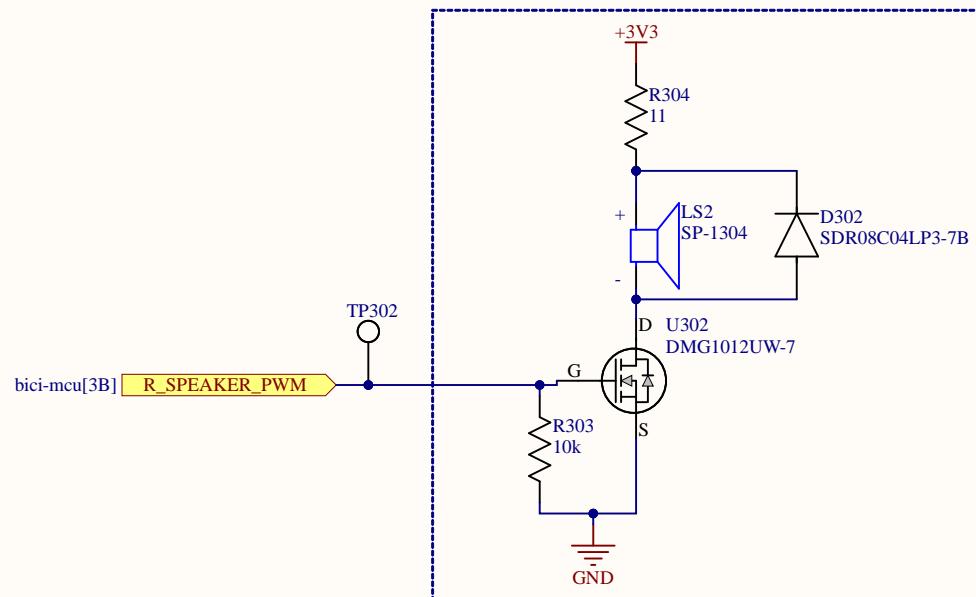
3

4

Left Indicator Audio Feedback Circuit



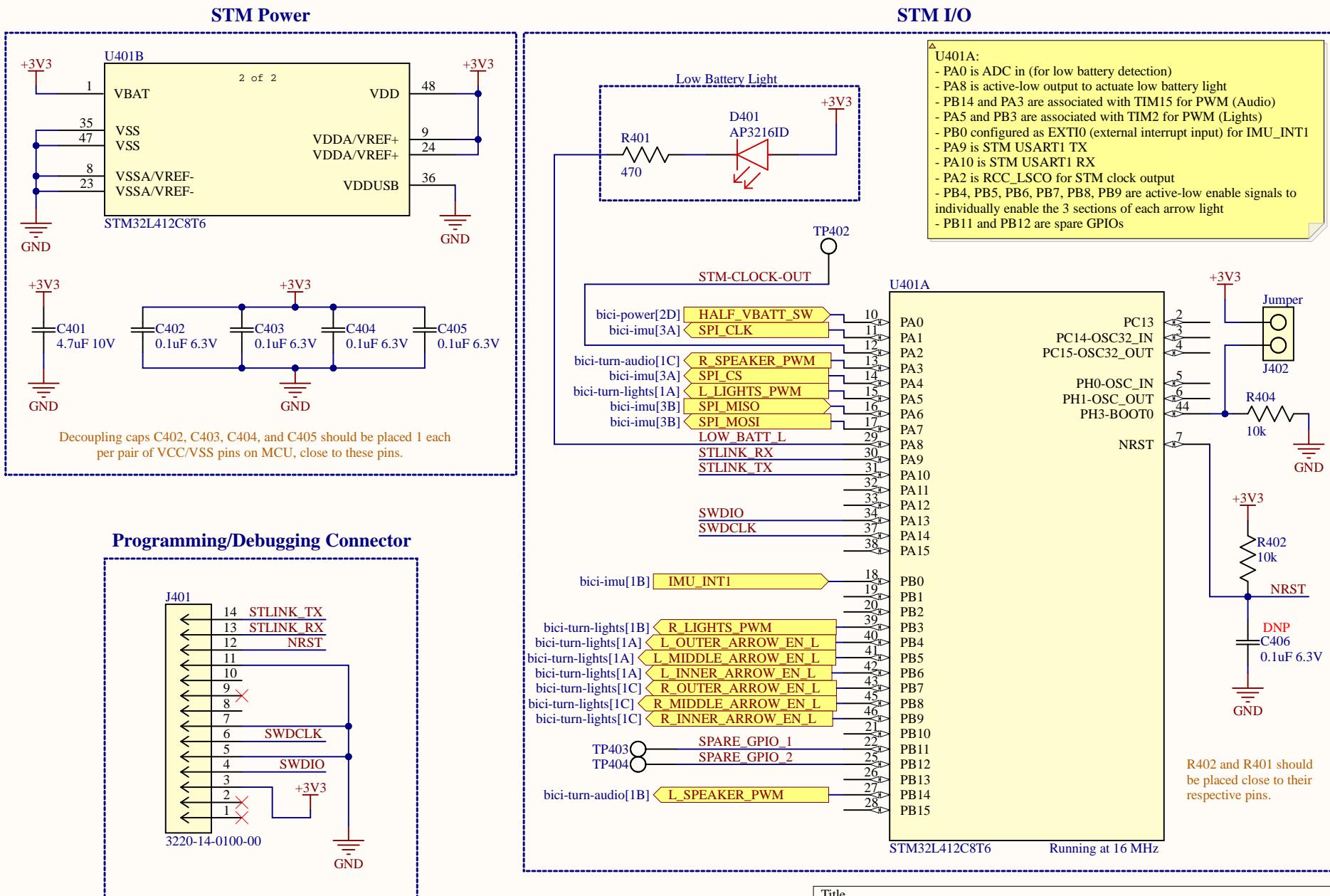
LS1 should be placed at the edge of the PCB on the left arrow point
(to accomodate speaker placement in housing).



LS2 should be placed at the edge of the PCB on the right arrow point
(to accomodate speaker placement in housing).

Right Indicator Audio Feedback Circuit

Title Bici: Turn Signal Audio Circuitry related to audio feedback to user.		
Size A	Number	Revision V5
Date: 2/17/2026		Sheet 4 of 5
File: C:\Users\.\bici-turn-audio.SchDoc	Drawn By:	Team Bici



Title: Bici: MCU Circuitry related to embedded MCU.		
Size A	Number	Revision V5
Date: 2/17/2026		Sheet 5 of 5
File: C:\Users\...\bici-mcu.SchDoc	Drawn By: Team Bici	

