

Revision History:

Rev	Date	Description

Sheet Title: **BMS Master**

Project: **Battery Managment System 2020**

Size: A3 Number: **1**

Drawn By: Jonn Dillon
Print Date: 5/05/2020 Print Time: 7:45:59 PM


Version: **01**

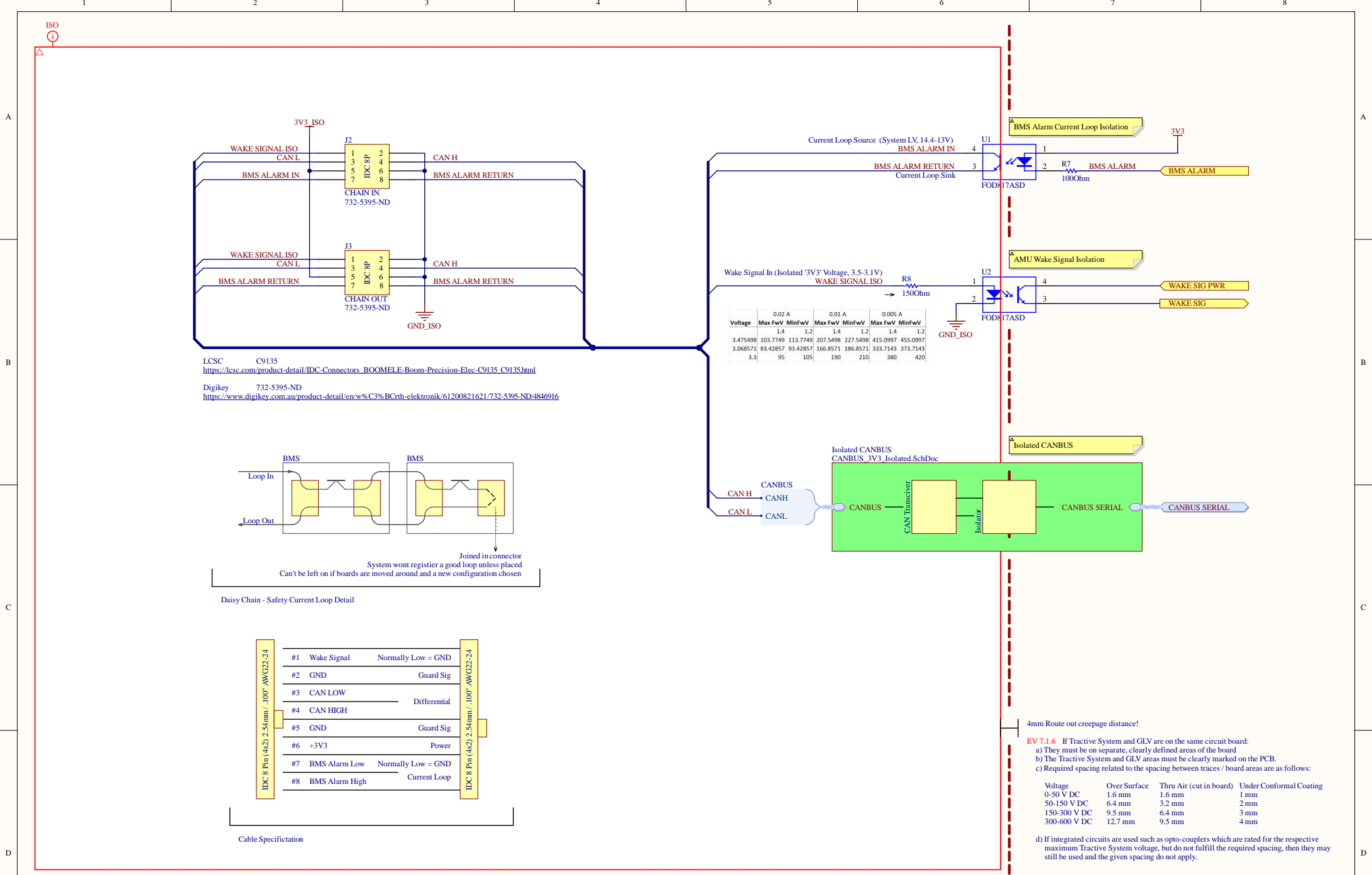
Revision: **01**

Sheet **1** of **10**

File Name: Master.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia





Revision History:

Rev	Date	Description

Sheet Title: **Isolation Barrier**

Project: **Battery Management System 2020**

Size: A3 Number: **3**

Drawn By: Jonn Dillon

Print Date: 5/05/2020 Print Time: 7:45:59 PM

Version: **01**

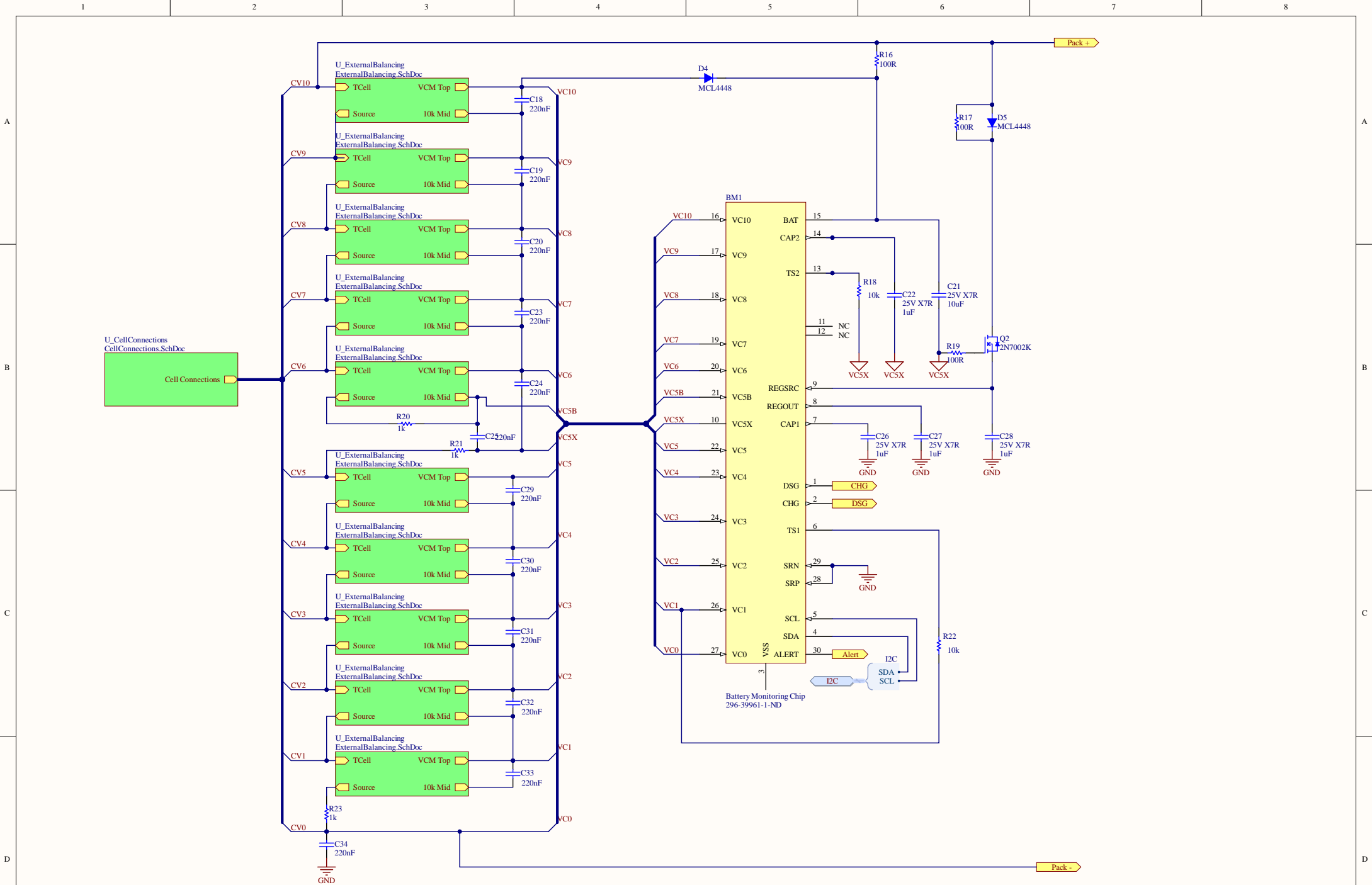
Revision: **01**

Sheet **3** of **10**

File Name: IsolationBarrier.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia





Revision History:

Rev	Date	Description

A

B

C

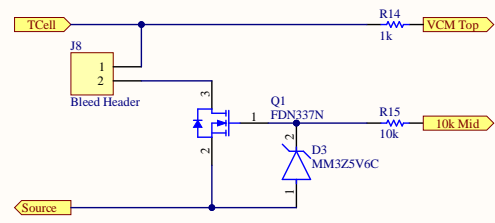
D

A

B

C


D



Revision History:

Rev	Date	Description

Sheet Title: Cell Balancing		
Project: Battery Managment System 2020		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia
Size: A3	Number: 6	Version: 01 Revision: 01
Drawn By: Sam Haines		Sheet 6 of 10
Print Date: 5/05/2020 Print Time: 7:45:59 PM		File Name: ExternalBalancing.SchDoc



A

B

C

D

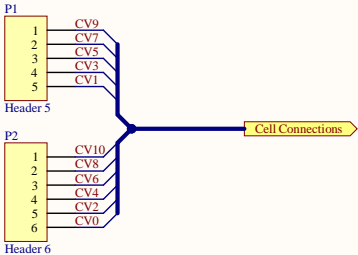
A

B

C

D

Haven't settled on a header type yet, need to know how much room we have to play with before we decide to go with 90 degree or vertical microfits



Revision History:

Rev	Date	Description

Sheet Title: **Cell Connections**

Project: **Battery Managment System 2020**

Size: A3

Number: **7**

Version: **01**

Revision: **01**

Drawn By: Sam Haines

Print Date: 5/05/2020

Print Time: 7:45:59 PM

QUT Motorsport

O-120, Gardens Point

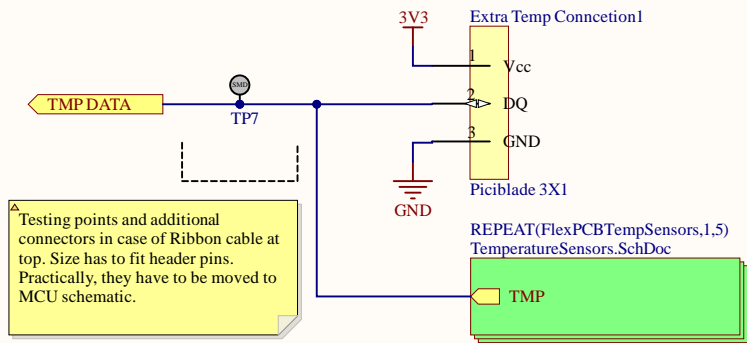
2 George Street

Brisbane, QLD 4000


Australia

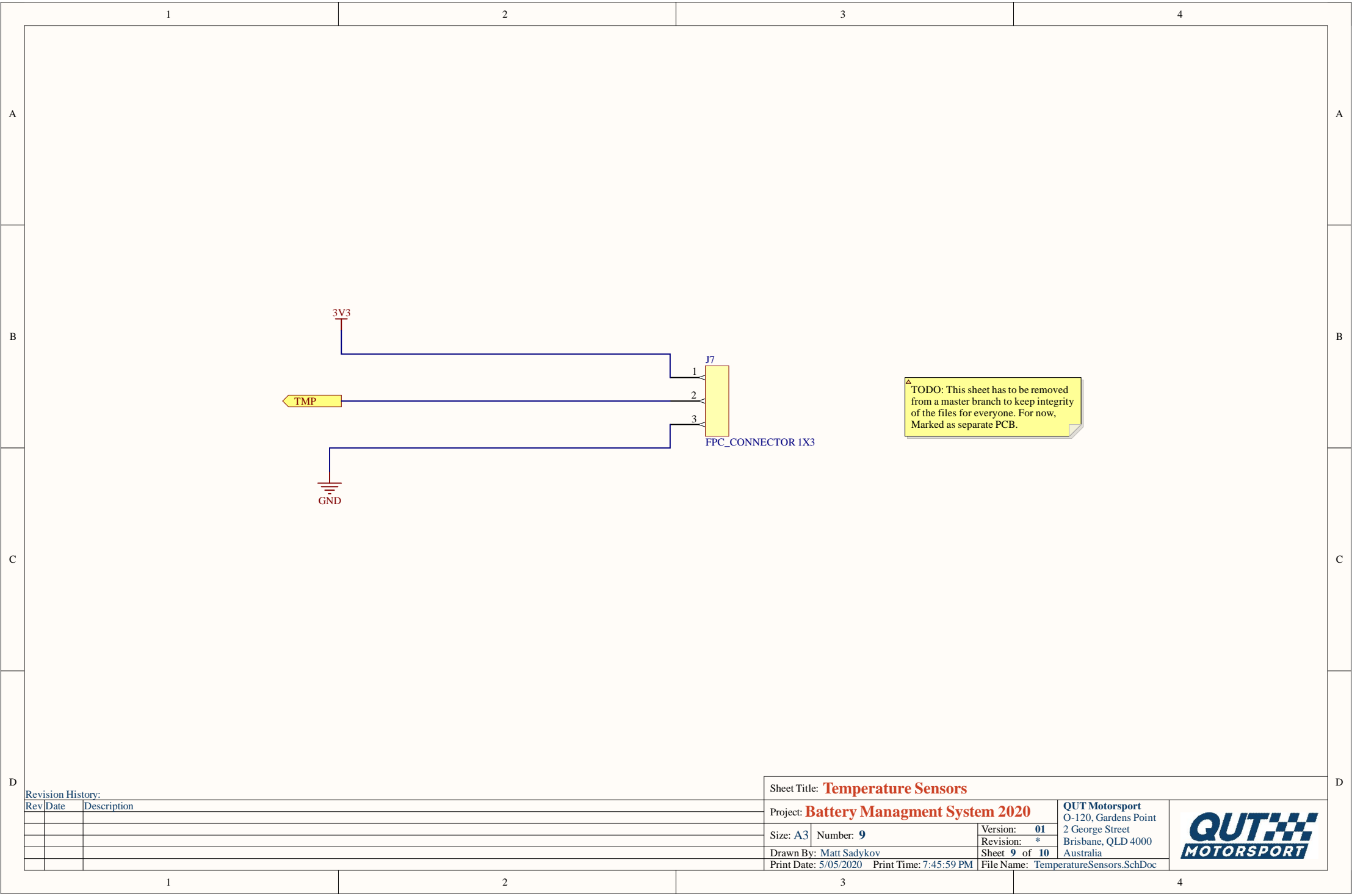
File Name: CellConnections.SchDoc

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TODO: Schematic for flexi temp board has been moved. It was replaced with separate temp connection.



Revision History:	
Rev	Date
Description	

Sheet Title: Extra Temperature Connection		
Project: Battery Managment System 2020		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia 
Size: A3	Number: 8	
Drawn By: Matt Sadykov	Version: 01	
Print Date: 5/05/2020	Revision: 01	
Print Time: 7:45:59 PM	Sheet 8 of 10	File Name: TemperatureSensor.SchDoc

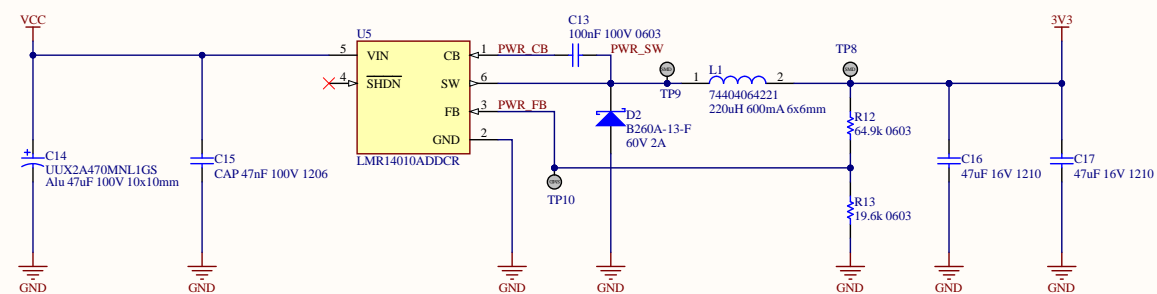


BMS Power Budget

Essential	STM32F042 @ 42Mhz, All peripherals enabled
25mA	BQ76930, Everything On
200uA	Si8621 @ 1Mbps (CANBUS Datarate)
3mA	DS18B20 @ Full Functionality x 50
75mA	

Debug	MCU Debug LEDs
6mA	CANBUS Debug LEDs
6mA	

Essential	303mA
Debug	315mA



Revision History:

Rev	Date	Description

Sheet Title: **Power Supply (20-40V to 3v3 @ 0.1-0.6A)**

Project: Battery Management System 2020		Version: 01	QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia
Size: A3	Number: 10	Revision: 01	
Drawn By: Jonn Dillon		Sheet 10 of 10	
Print Date: 5/05/2020 Print Time: 7:45:59 PM		File Name: PSU_Disconnect.SchDoc	