

Sheet: Power Management

File: F20_Power_Management.sch

Sheet: RIM

File: F20_RIM.sch

Sheet: Powertrain

File: F20_Powertrain.sch

Sheet: Shifter

File: F20_Shifter.sch

Sheet: Driver Display

File: F20_Driver_Display.sch

Sheet: Steering Wheel

File: F20_Steering.sch

Sheet: Brakes

File: F20_Brakes.sch

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File: F20_XBEE.sch

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File: F20_Transponder.sch

Sheet: Accelerometer

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Sheet: Tire Temperature Sensors

File: F20_Tire_Temp_Sensors.sch

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Apprvd By:
Drawn By: Cristian Valadez
Model: F20

UIC
Formula SAE

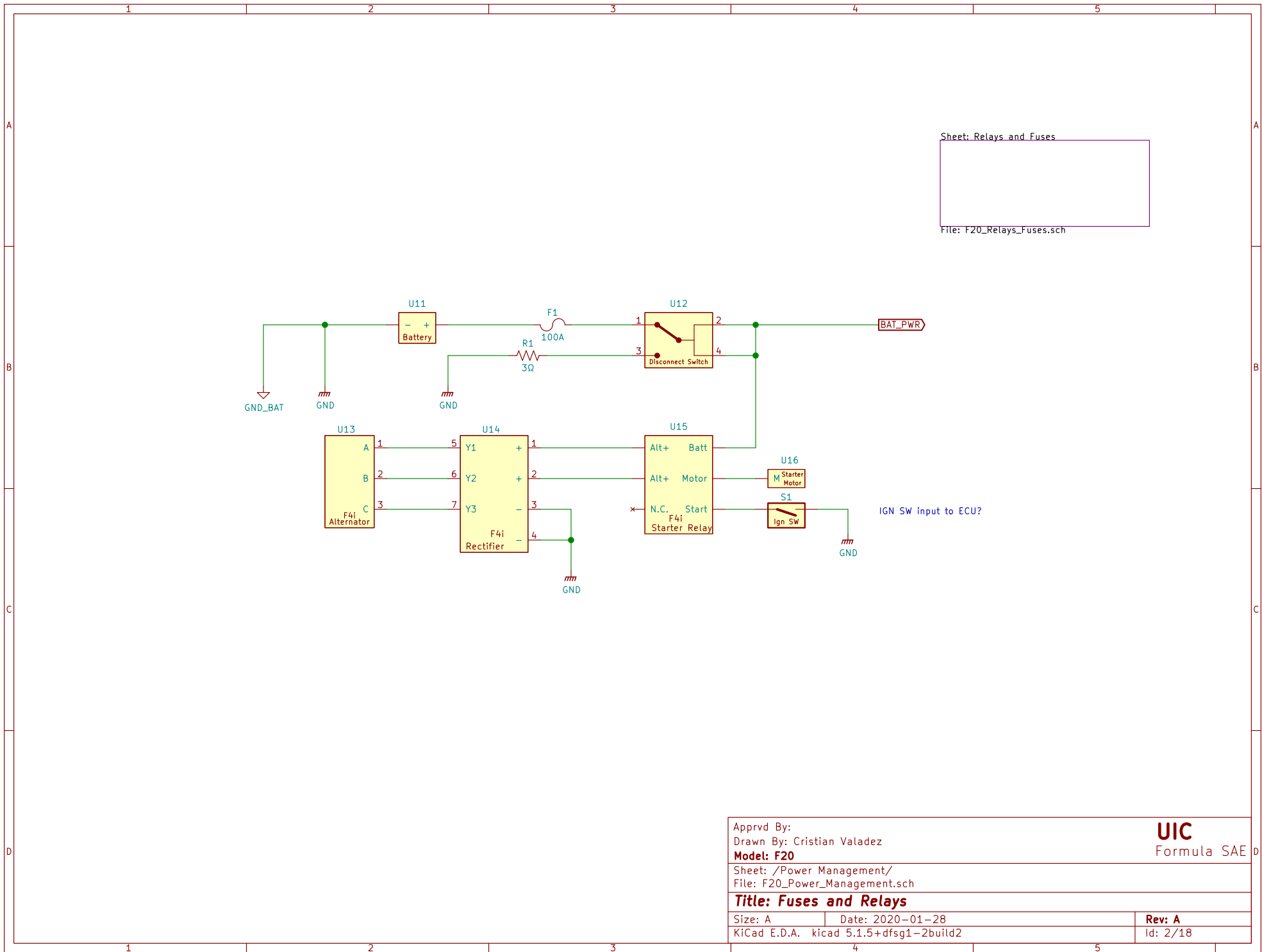
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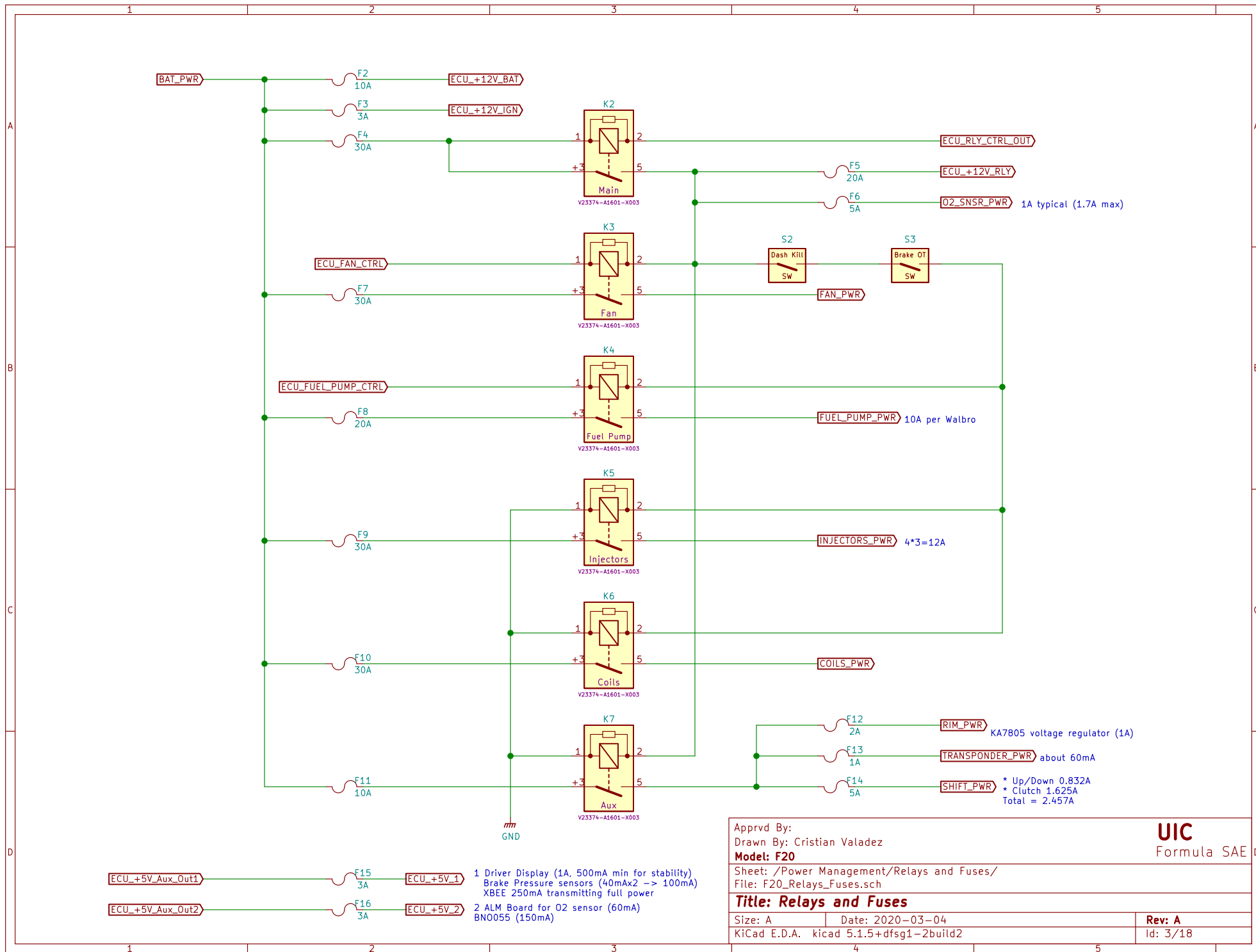
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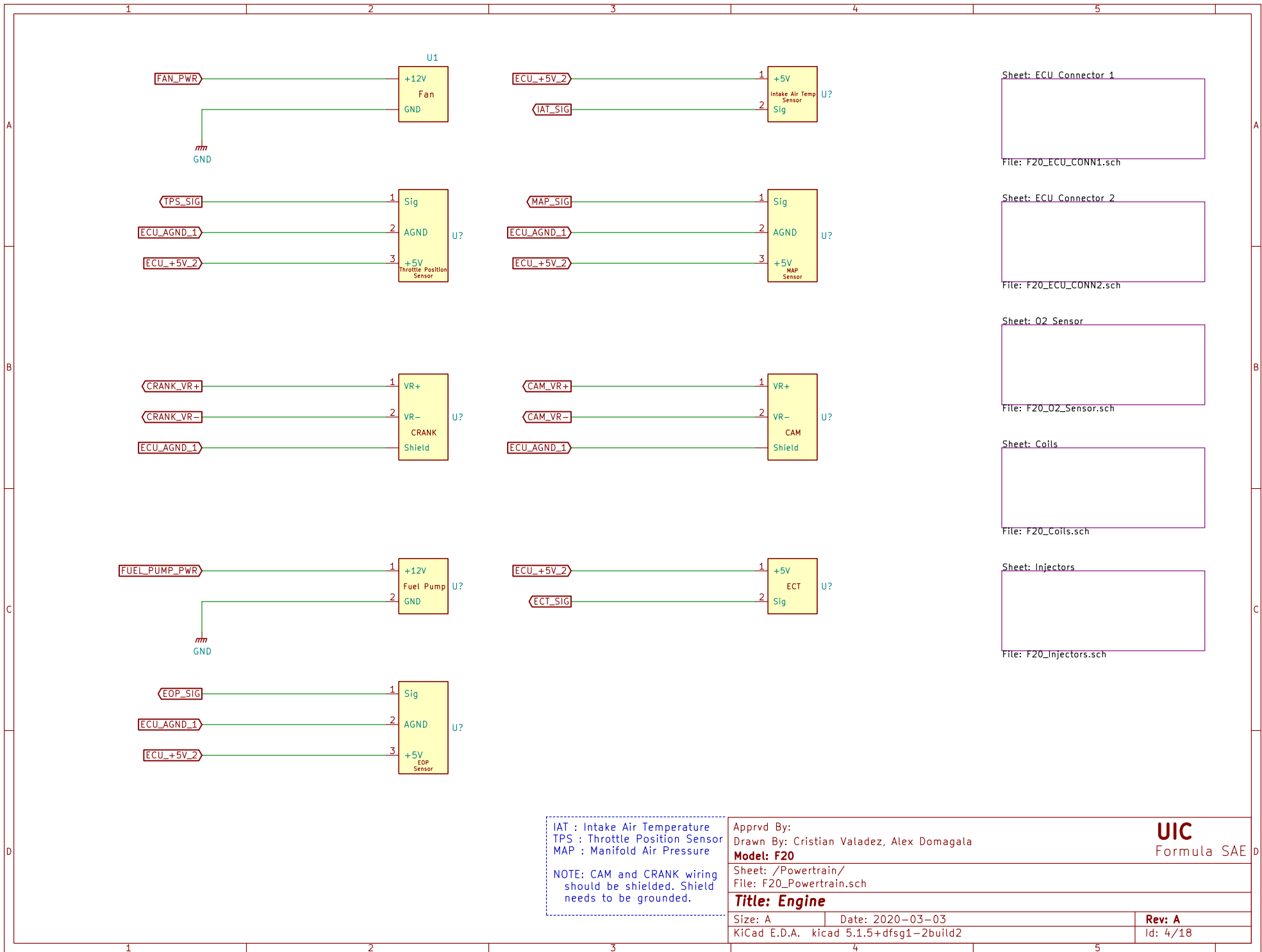
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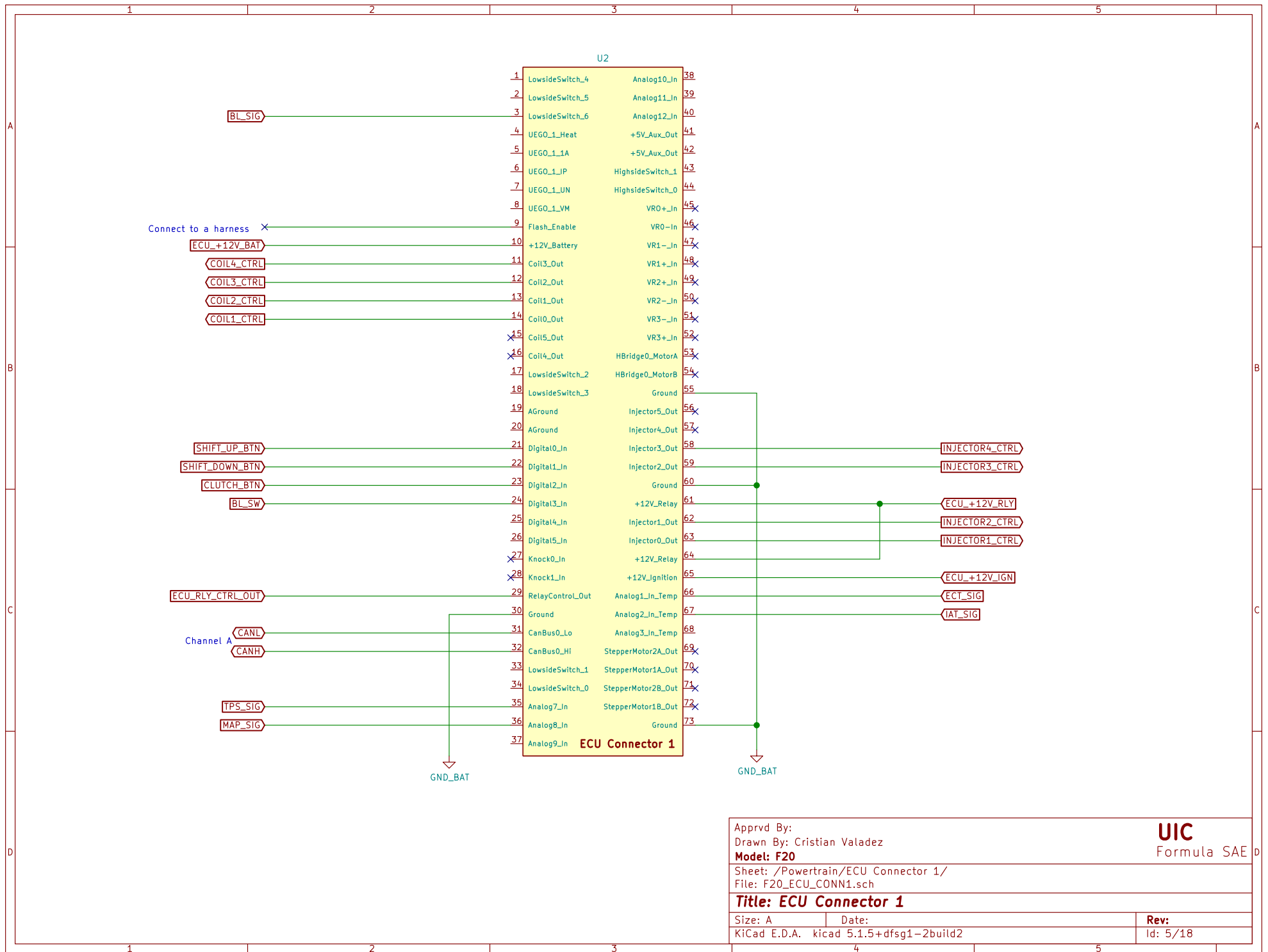
Rev: A
Id: 1/18



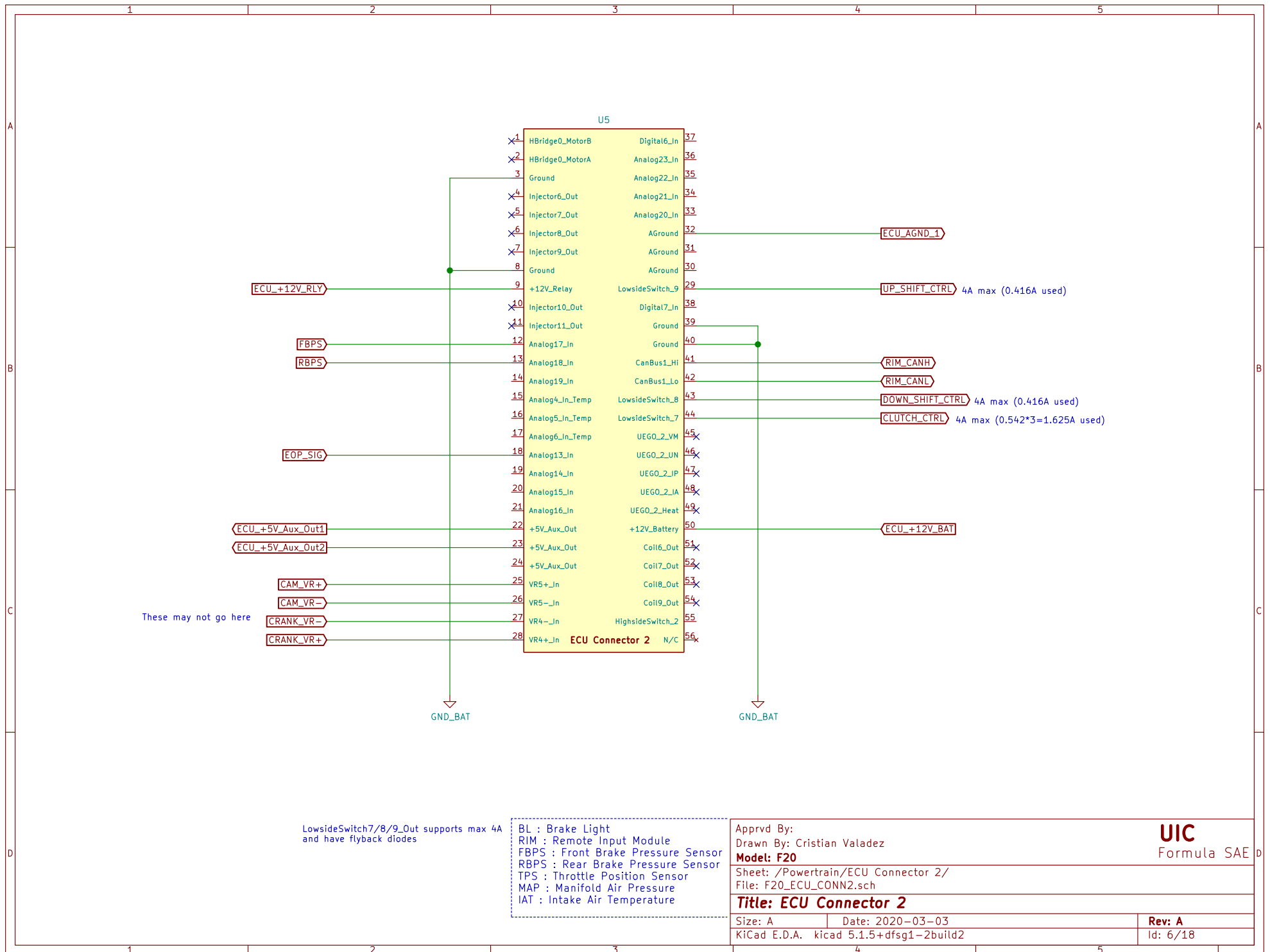
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Drawn By: Cristian Valadez		
Model: F20		
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KiCad E.D.A. kicad 5.1.5+dfsg1-2build2		Id: 2/18

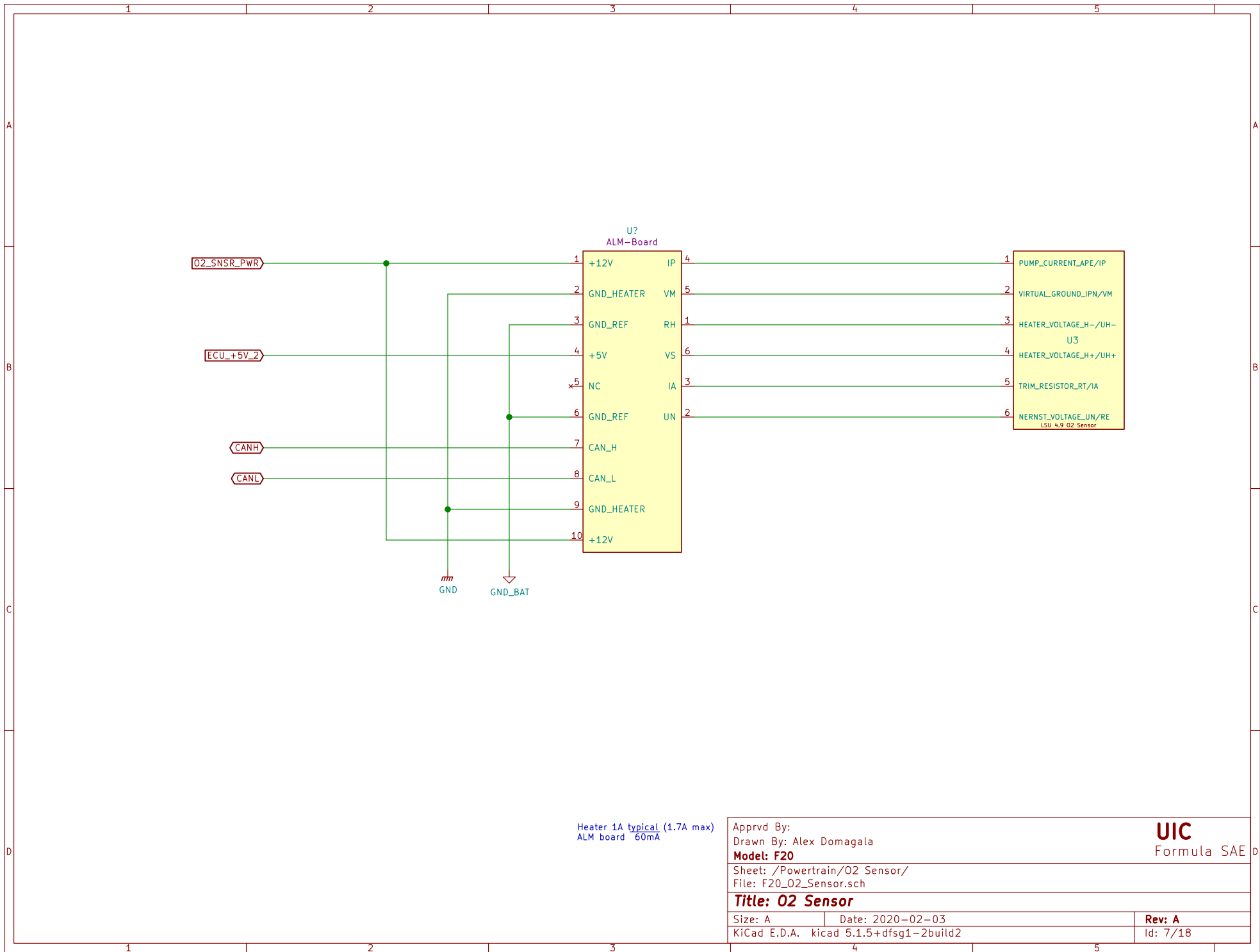


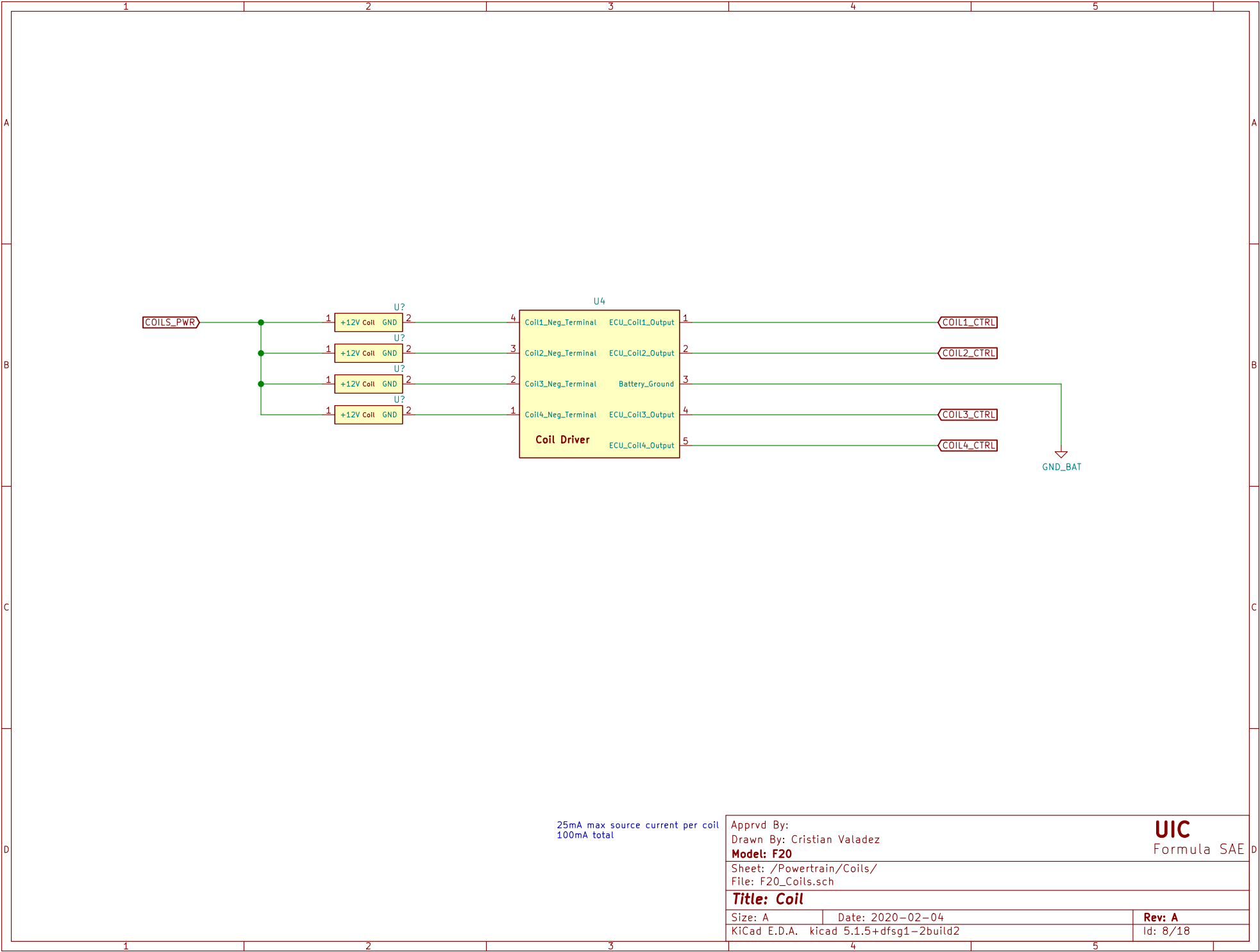




Apprvd By:		UIC	
Drawn By: Cristian Valadez		Formula SAE D	
Model: F20			
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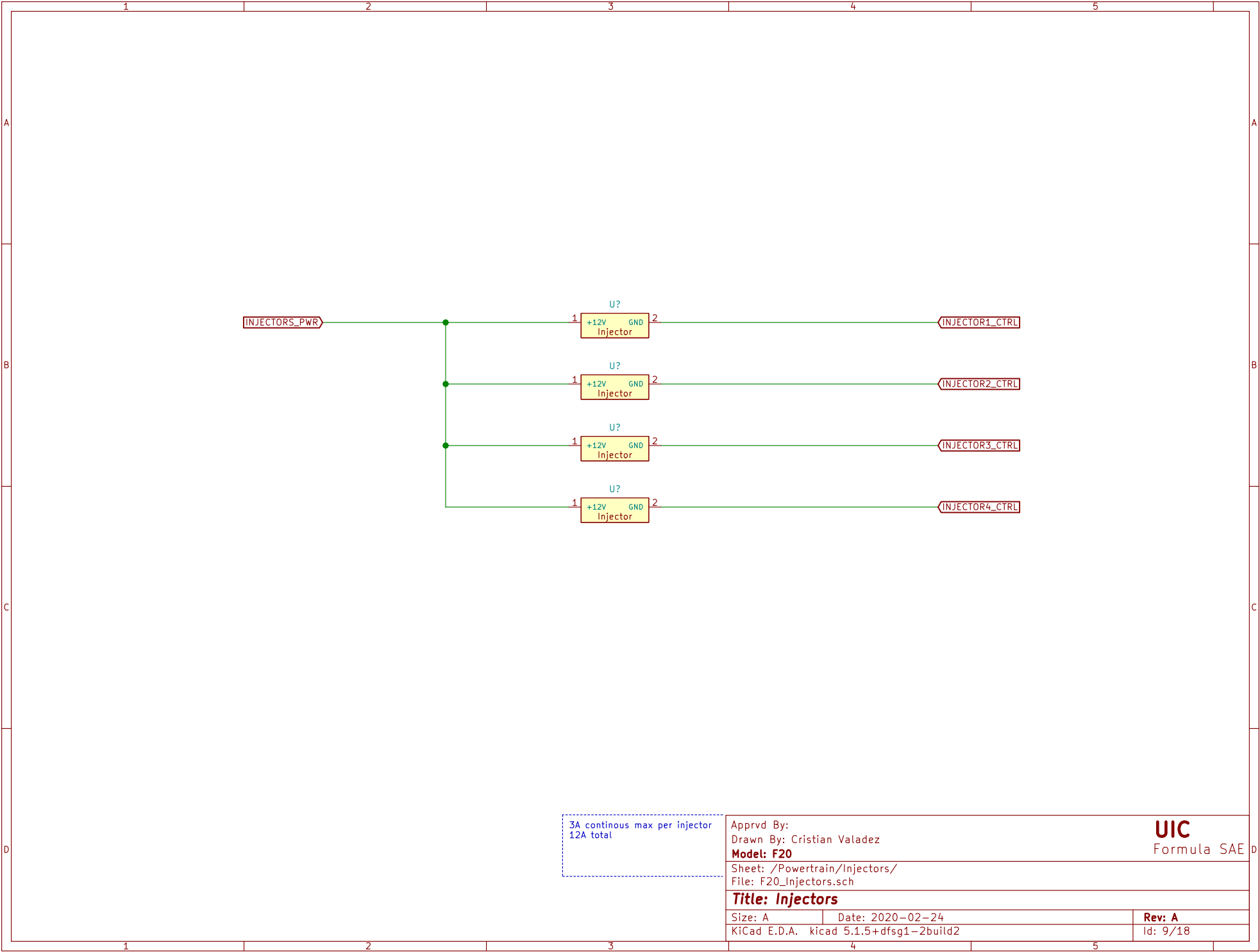






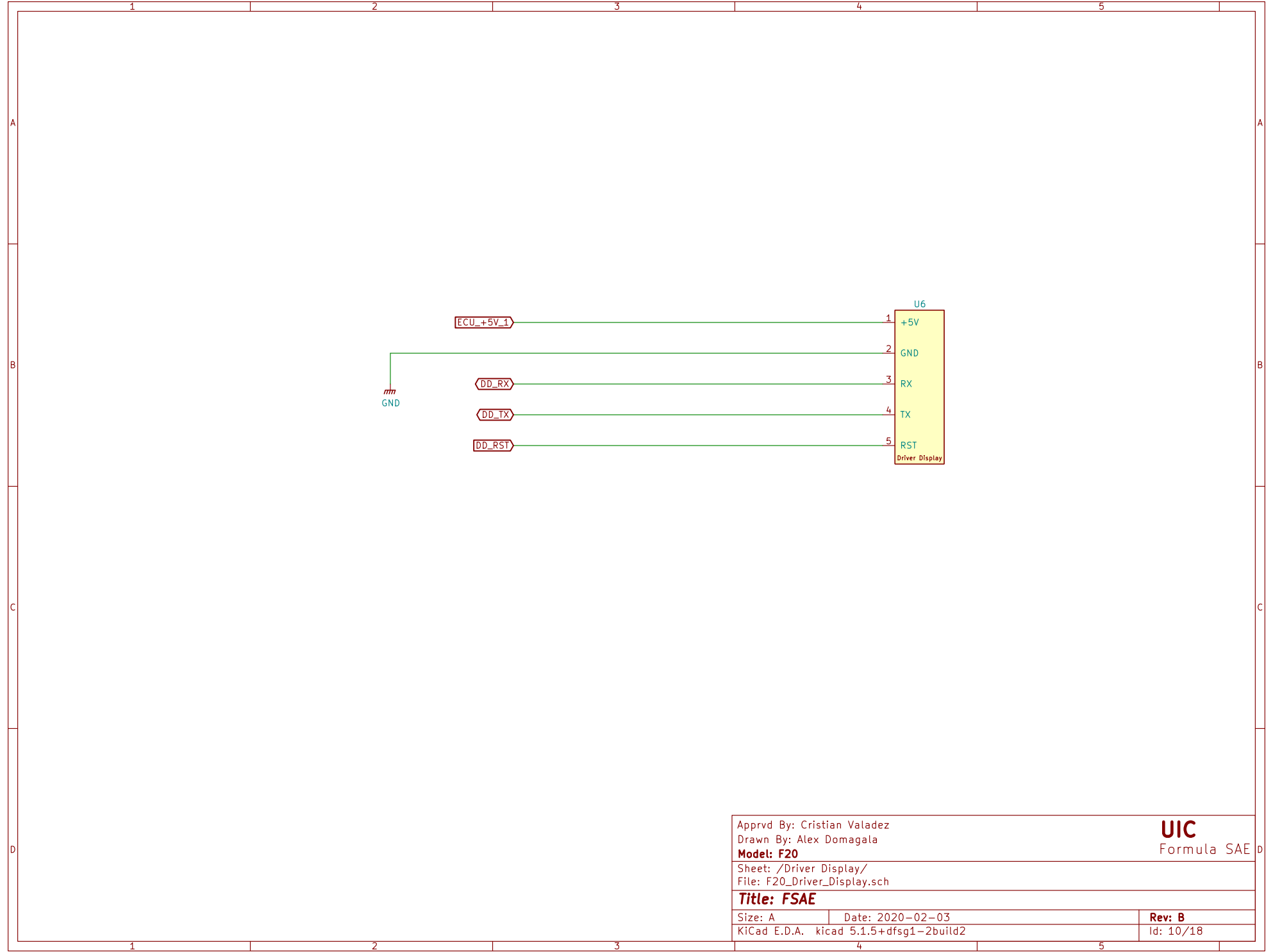
25mA max source current per coil
100mA total

Apprvd By:		UIC Formula SAE D
Drawn By: Cristian Valadez		
Model: F20		
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File: F20_Coils.sch		
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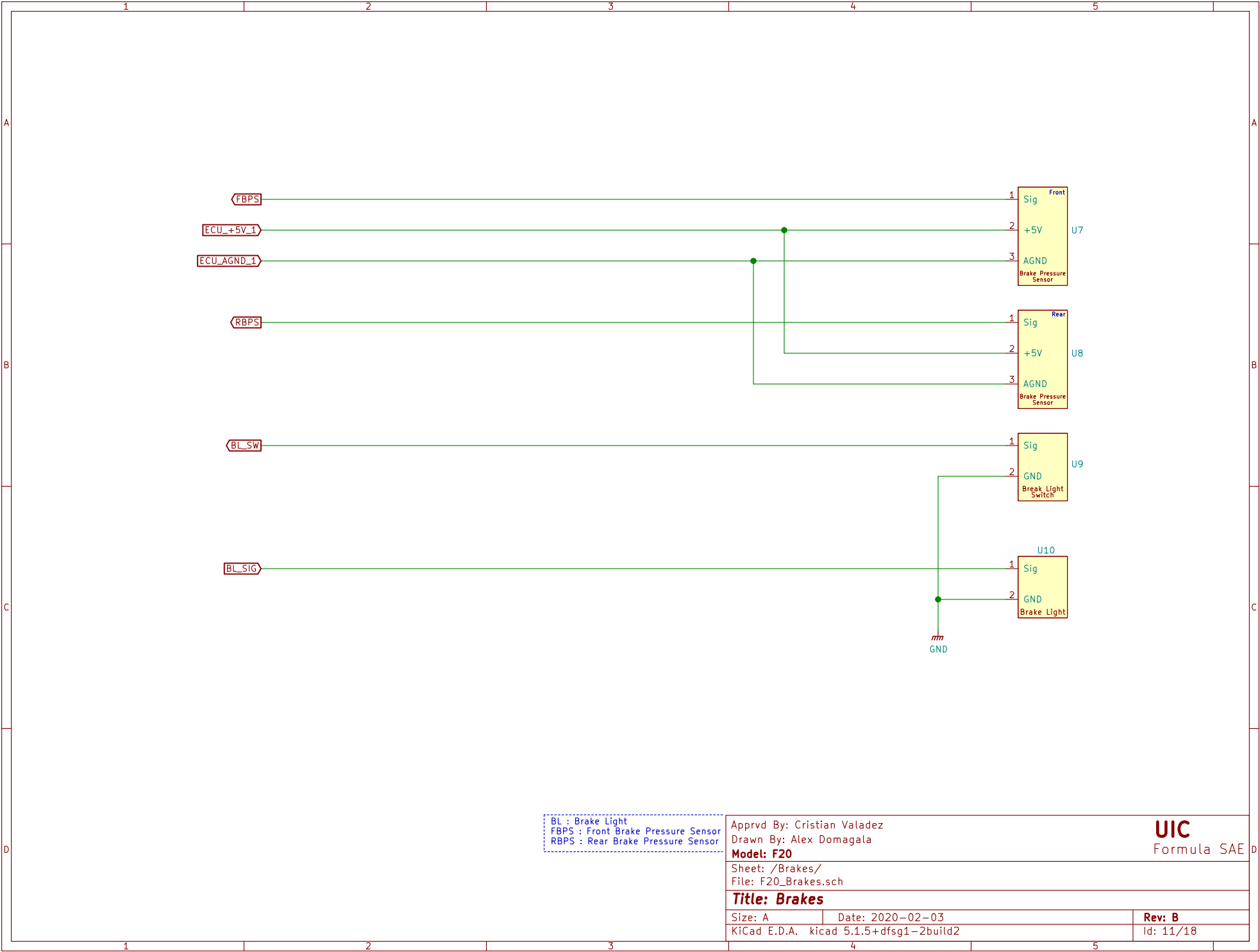


3A continous max per injector
12A total

Apprvd By:		UIC
Drawn By: Cristian Valadez		
Model: F20		Formula SAE
Sheet: /Powertrain/Injectors/		
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Apprvd By: Cristian Valadez		UIC
Drawn By: Alex Domagala		
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Size: A	Date: 2020-02-03	Rev: B
KICad E.D.A. kicad 5.1.5+dfsg1-2build2		Id: 10/18



BL : Brake Light
FBPS : Front Brake Pressure Sensor
RBPS : Rear Brake Pressure Sensor

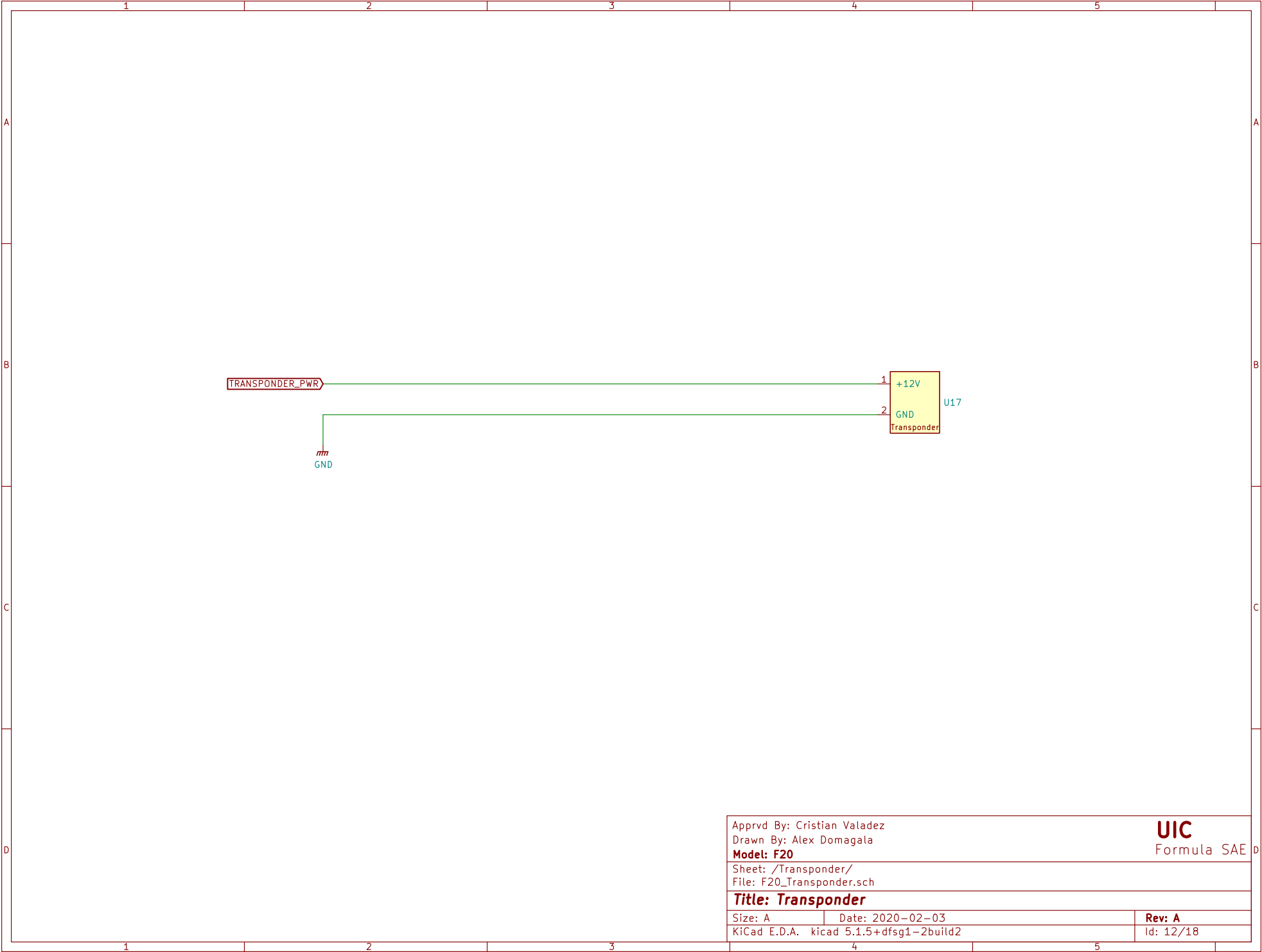
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Drawn By: Alex Domagala
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Title: Brakes

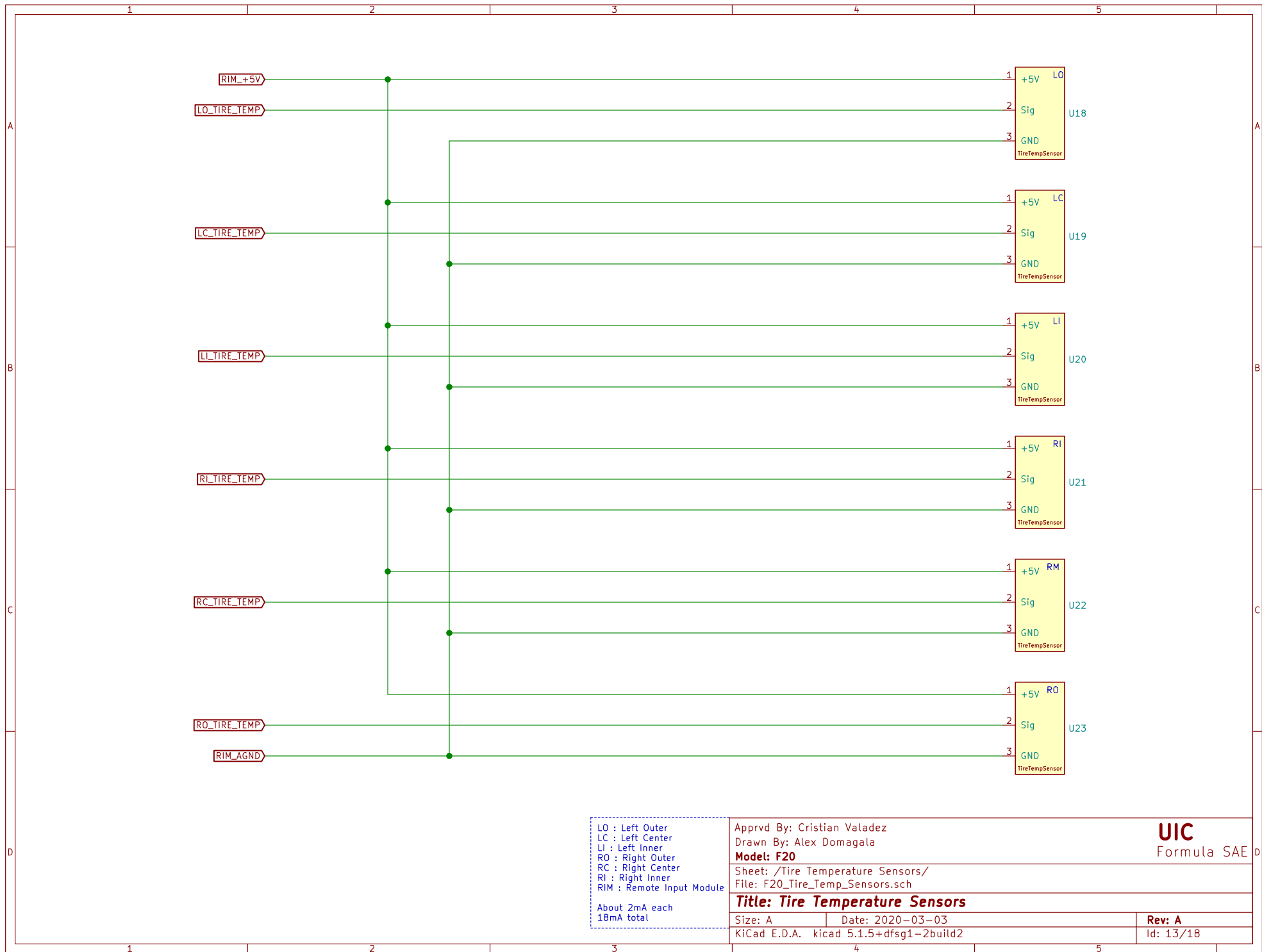
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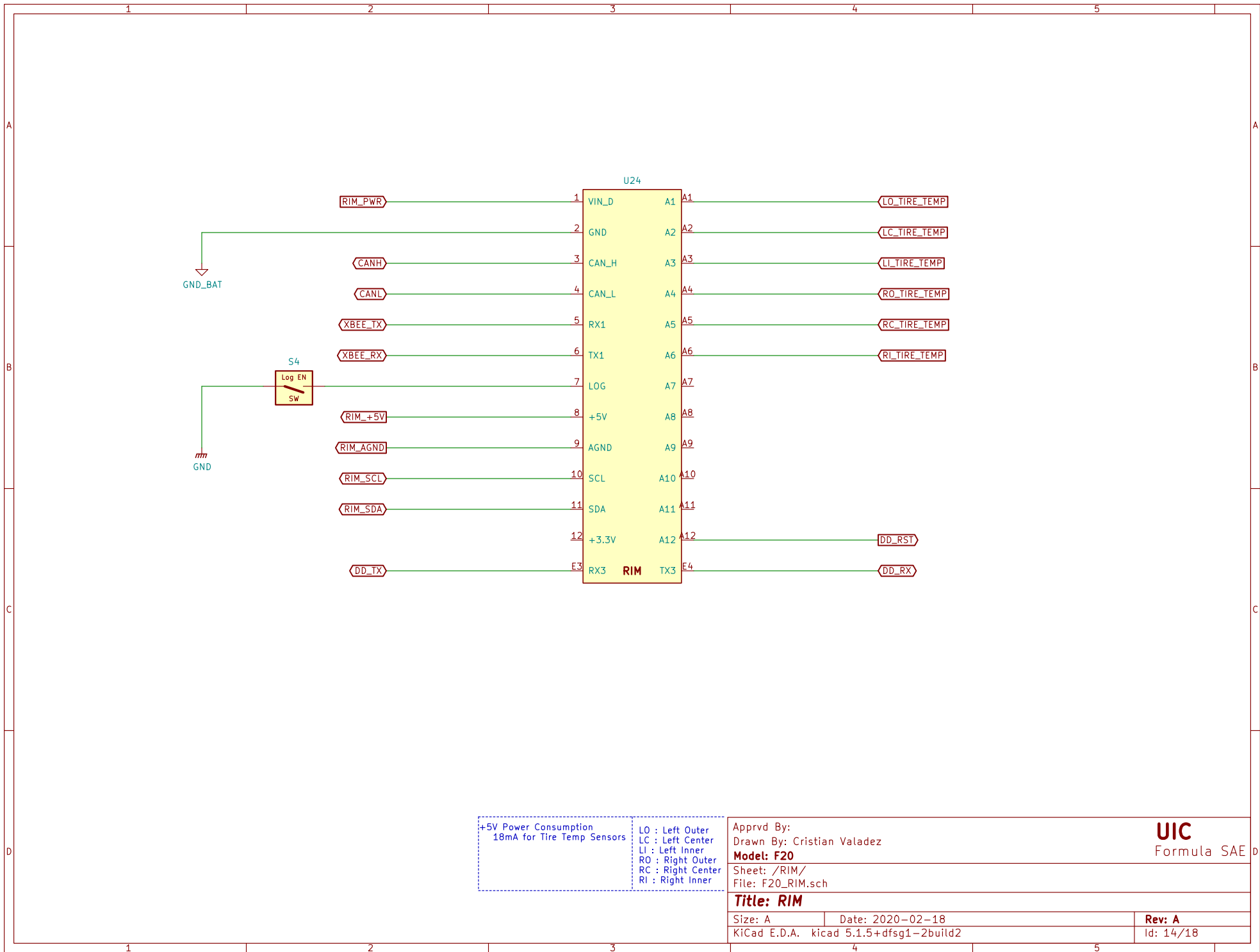
UIC
Formula SAE D

Rev: B
Id: 11/18



Apprvd By: Cristian Valadez		UIC
Drawn By: Alex Domagala		
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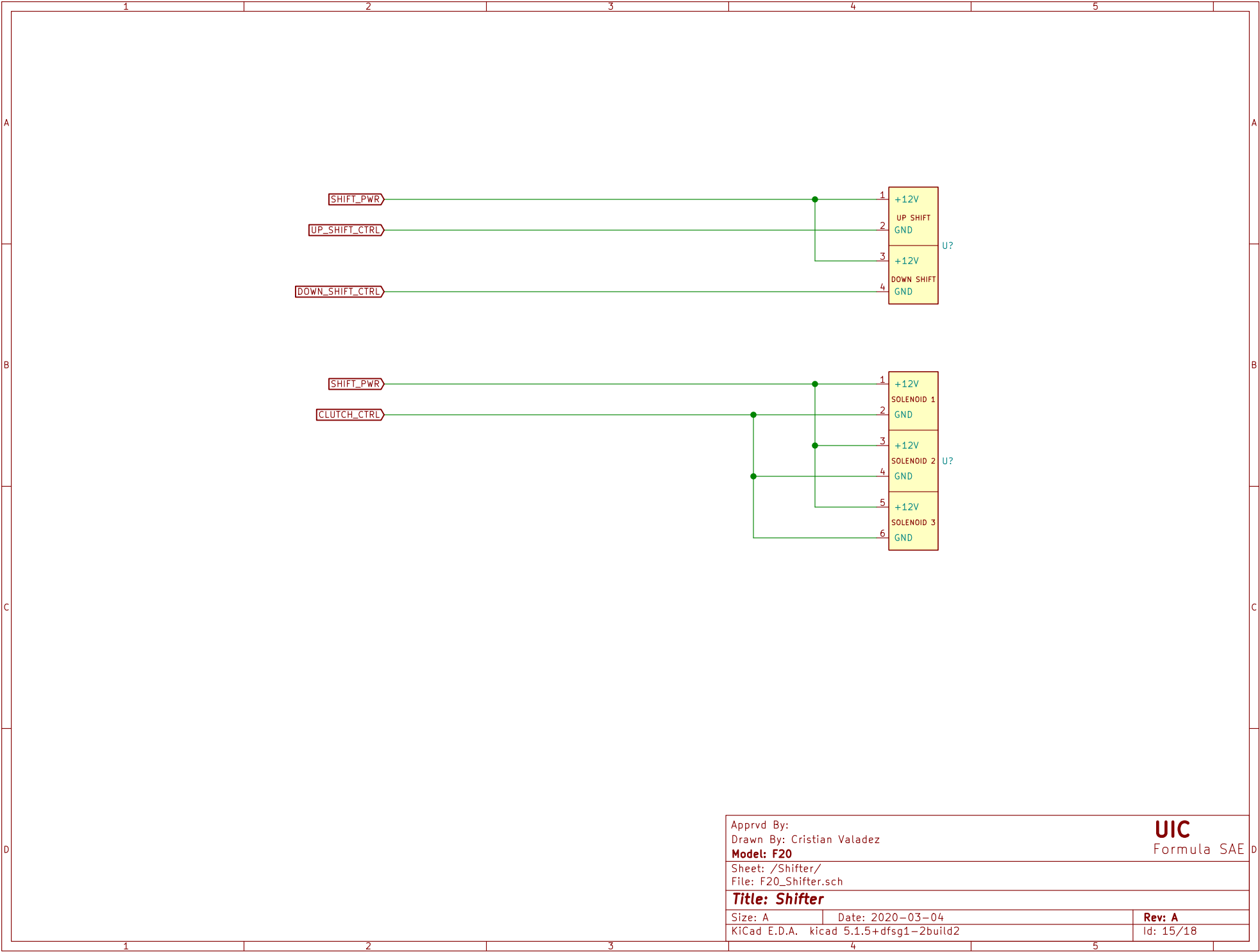




+5V Power Consumption
18mA for Tire Temp Sensors


LO : Left Outer
LC : Left Center
LI : Left Inner
RO : Right Outer
RC : Right Center
RI : Right Inner

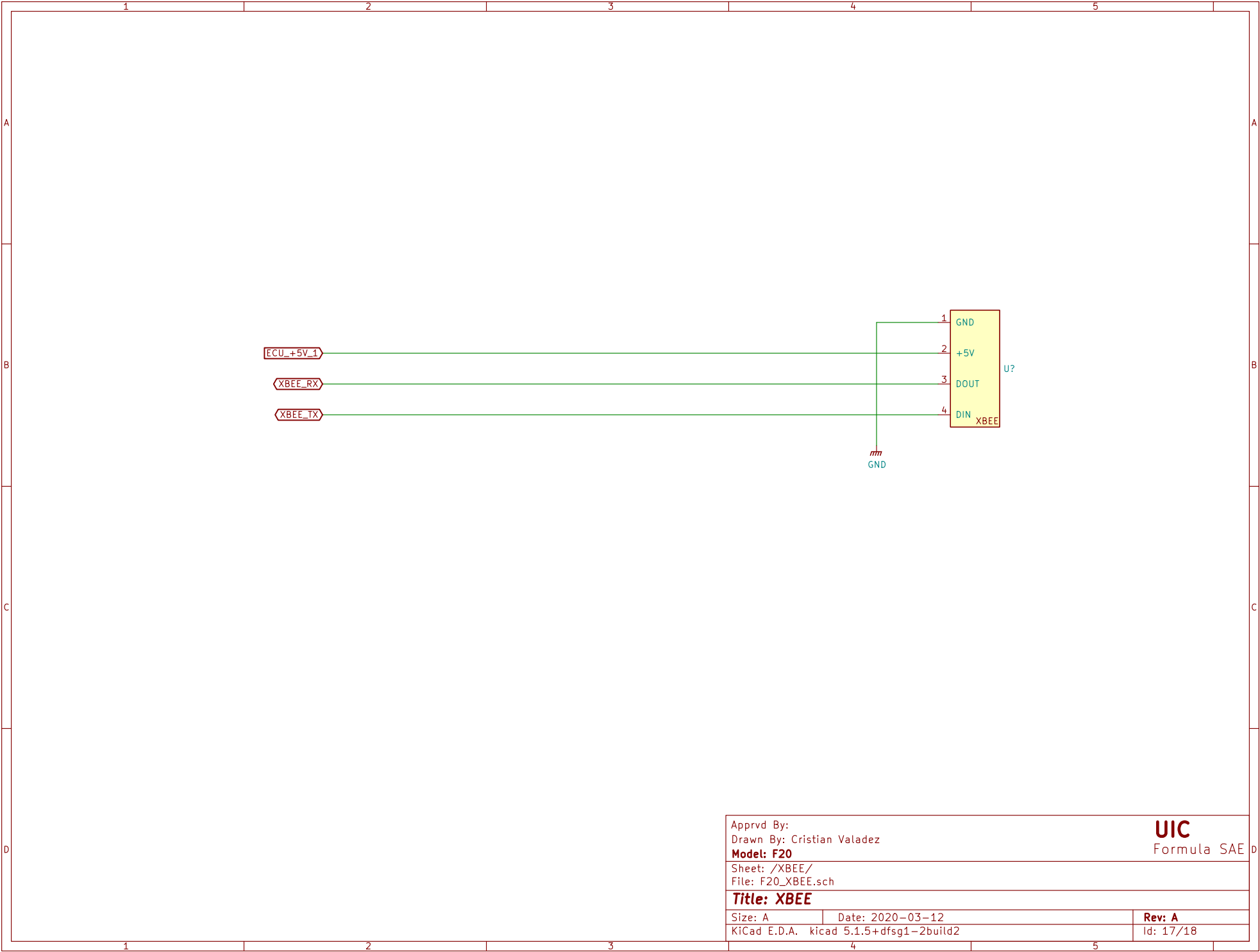
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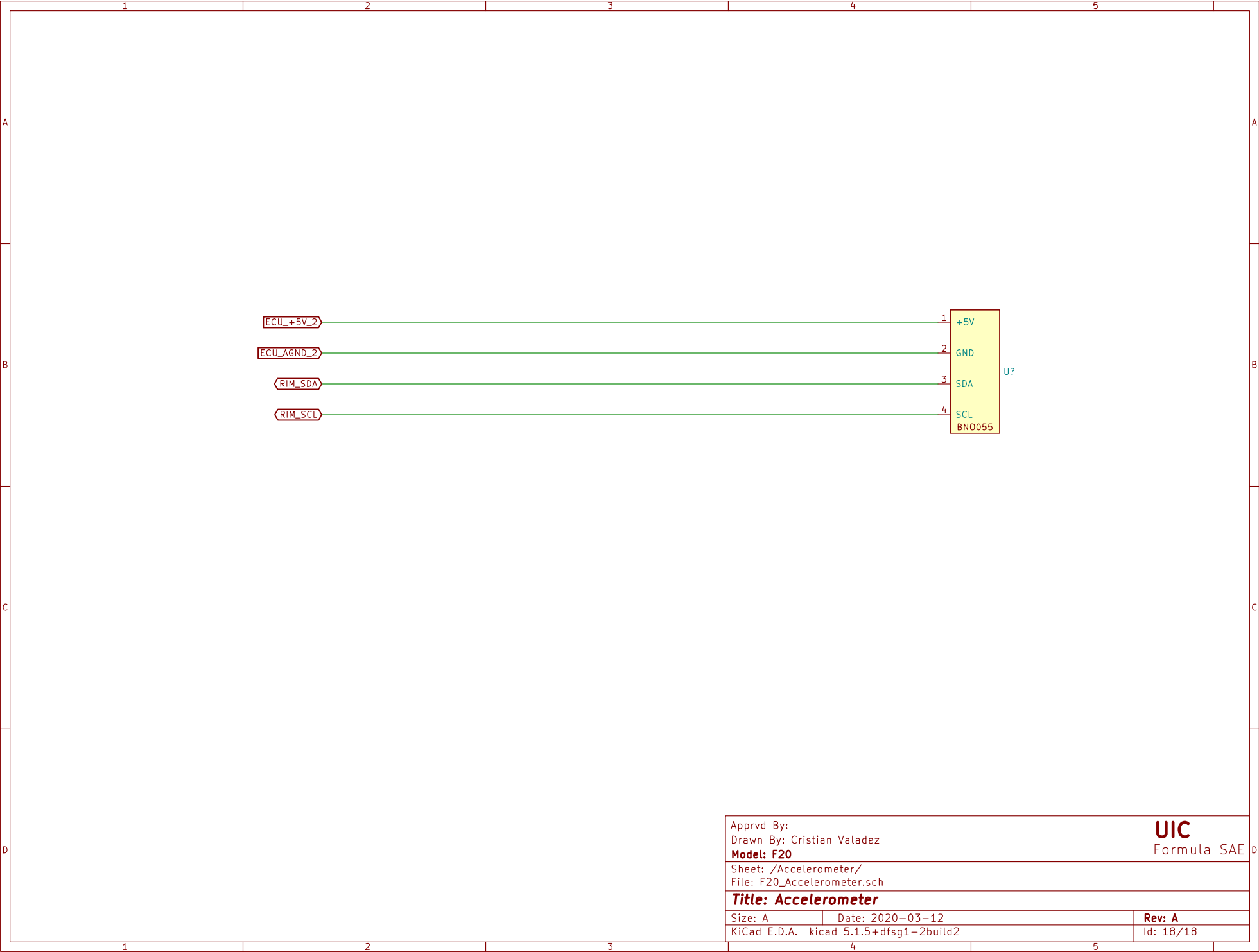
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Drawn By: Cristian Valadez		
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Apprvd By: Drawn By: Alex Domagala Model: F20		<div style="text-align: center;">  UIC Formula SAE Division </div>
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Apprvd By:		UIC
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Apprvd By:		UIC Formula SAE
Drawn By: Cristian Valadez		
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