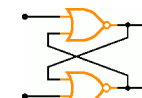


RES 0603 1/8W 5% UNLESS OTHERWISE NOTED  
CAPS 0603 16V 20% UNLESS OTHERWISE NOTED

Ray Sun  
B.S. EE 2020  
EE 110b  
Embedded Systems Design Laboratory  
California Institute of Technology



**Caltech EE**

Sheet: /  
File: pandora.sch

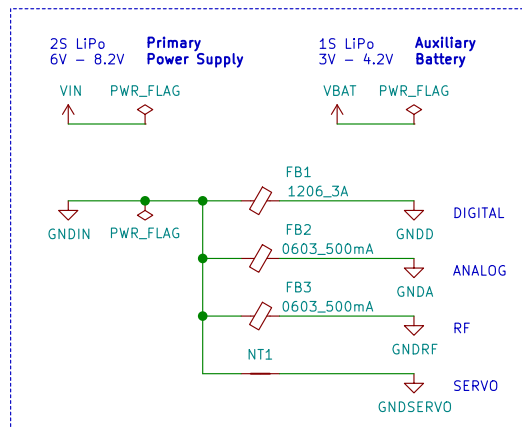
**PANDORA**

**Title: Pandora CC2652R Development Board**

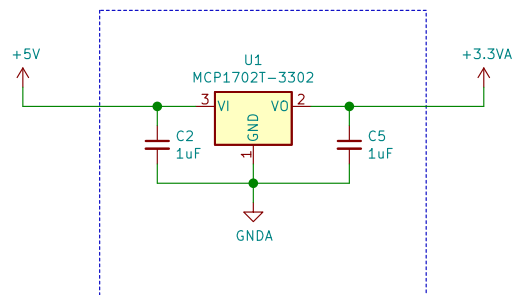
Size: A4 Date: 2020-02-08  
KiCad E.D.A. kicad (5.1.5)-2

Rev: A  
Id: 1/11

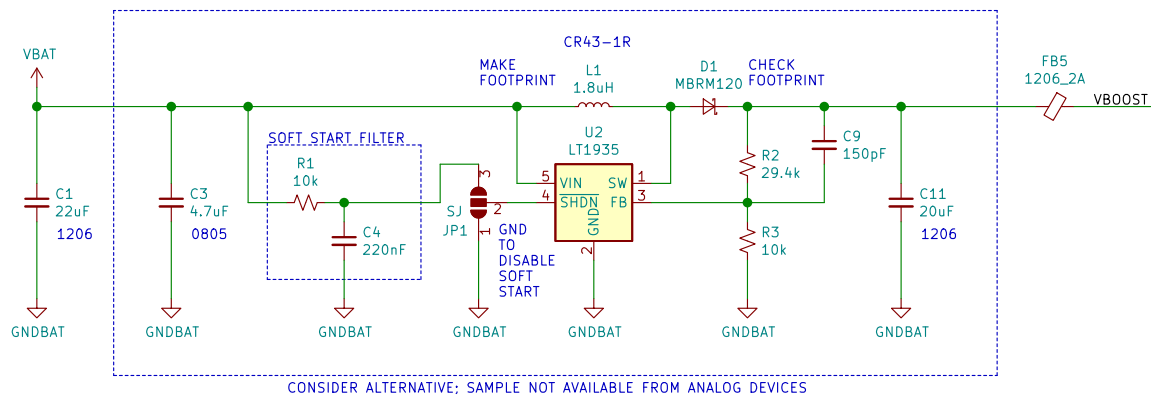
## POWER LAYOUT



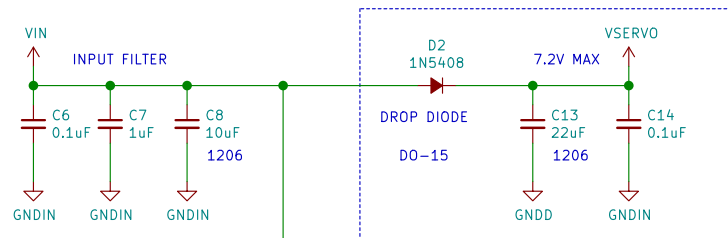
### 3.3V ANALOG LIN REG



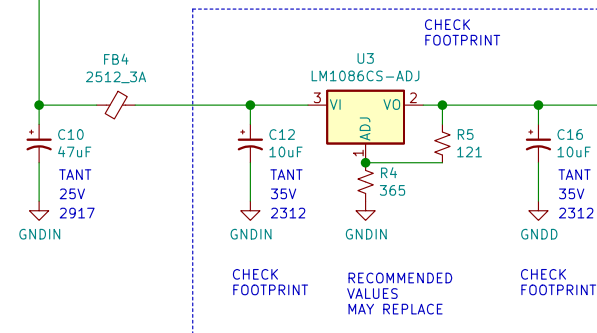
## BATTERY BOOST CONVERTER



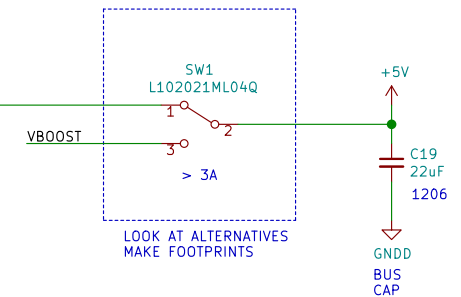
## SERVO POWER



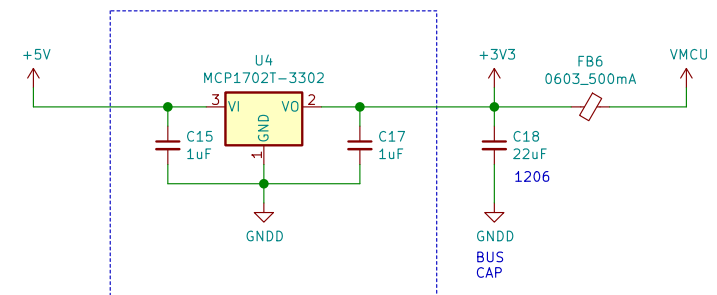
## 5V LIN REG



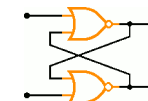
**POWER SELECT**



### 3.3V DIGITAL LIN REG



Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
**California Institute of Technology**



**PANDORA**

**Title: Pandora CC2652R Development Board**

Size: A4	Date: 2020-02-08
----------	------------------

Rev: A

Size: 41	Date: 2020
KiCad E.D.A.	kiCad (5.1.5)-2

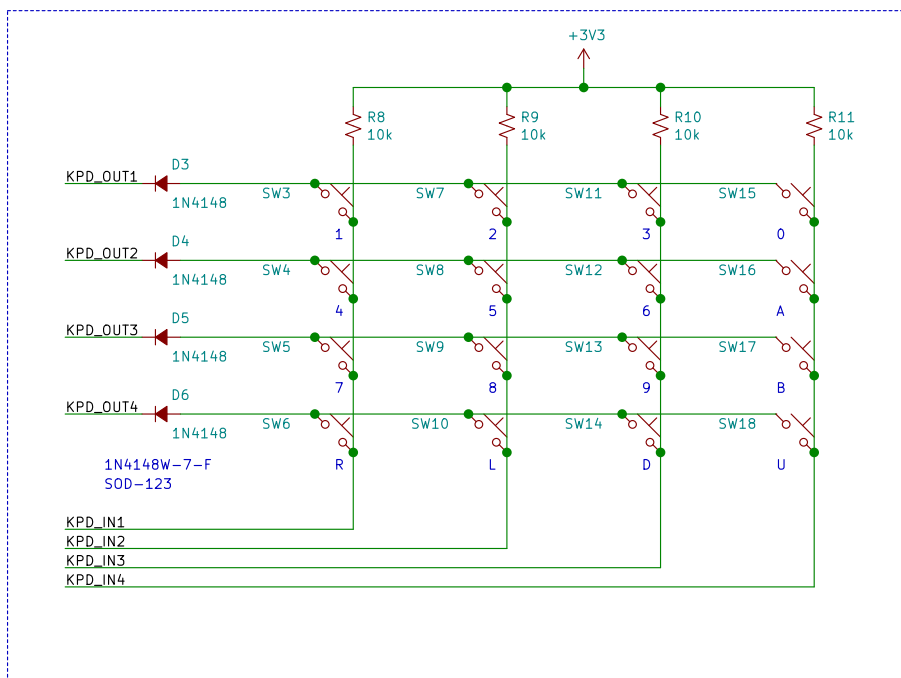
Id: 2/11



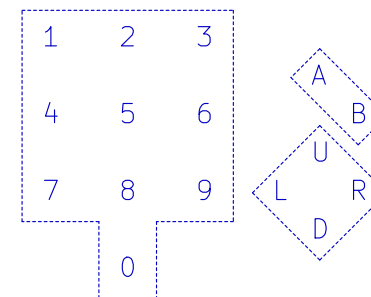
KEYPAD

KPD\_OUT1  
KPD\_OUT2  
KPD\_OUT3  
KPD\_OUT4  
KPD\_IN1  
KPD\_IN2  
KPD\_IN3  
KPD\_IN4

## KEYPAD



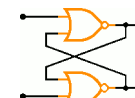
## KEYPAD LAYOUT



BUTTONS      PTS645 S K 50 SMTR92 LFS  
6mm SMT

CAP COLOR  
NUMERIC      BLACK  
A, B      RED  
D-PAD      BLUE

Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
California Institute of Technology



**Caltech EE**

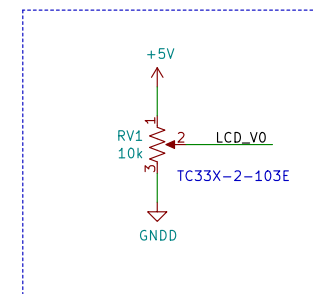
Sheet: /keypad/  
File: keypad.sch

**PANDORA**

**Title: Pandora CC2652R Development Board**

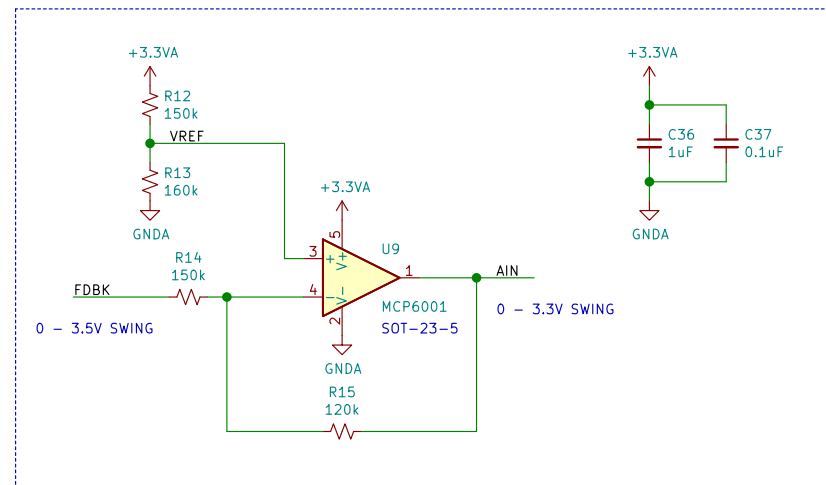
Size: A4      Date: 2020-02-08  
KiCad E.D.A. kicad (5.1.5)-2

Rev: A  
Id: 4/11

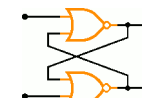


FDBK D FDBK  
AIN D AIN

## SERVO FEEDBACK SCALE



Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
California Institute of Technology  
Sheet: /servo/  
File: servo.sch



**Caltech EE**

**PANDORA**

**Title: Pandora CC2652R Development Board**

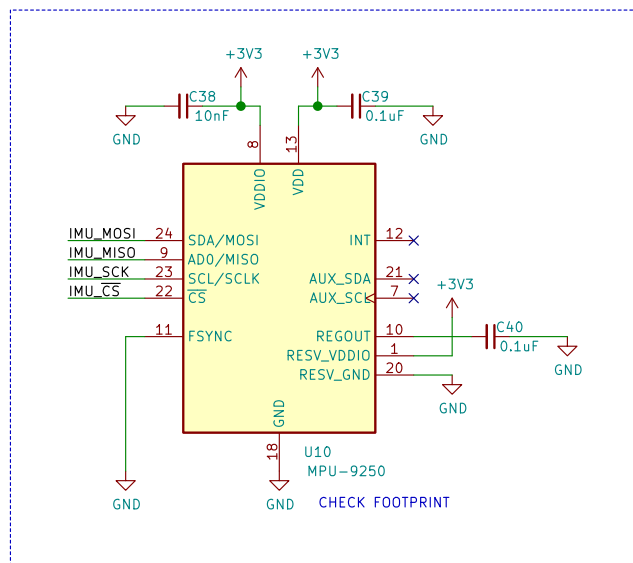
Size: A4  
KiCad E.D.A. kicad (5.1.5)-2

Date: 2020-02-08

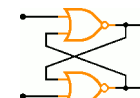
Rev: A  
Id: 6/11



## IMU



Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
California Institute of Technology



**Caltech** **EE**

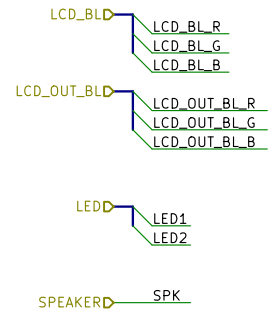
Sheet: /imu/  
File: imu.sch

**PANDORA**

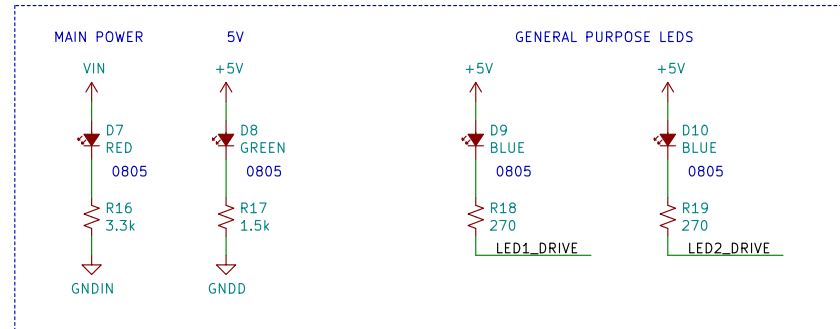
**Title: Pandora CC2652R Development Board**

Size: A4  
Date: 2020-02-08  
KiCad E.D.A. kicad (5.1.5)-2

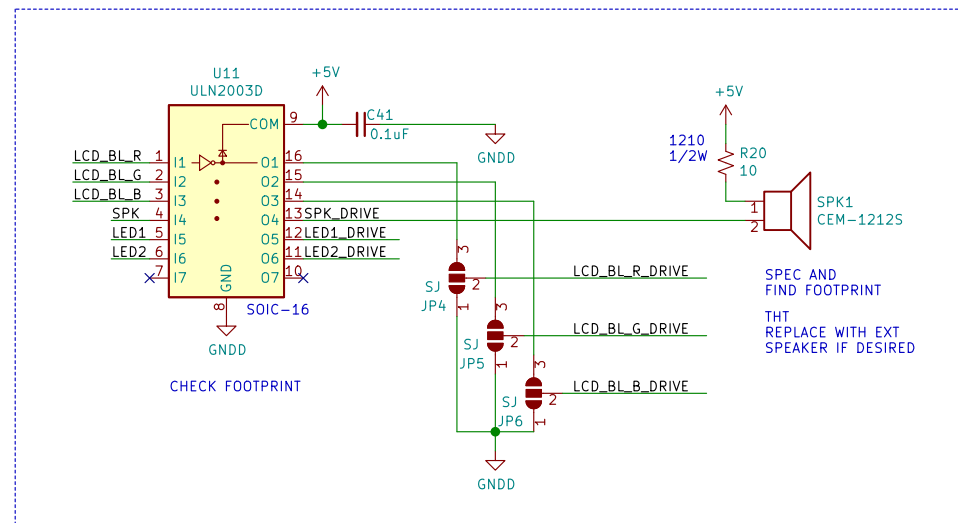
Rev: A  
Id: 7/11



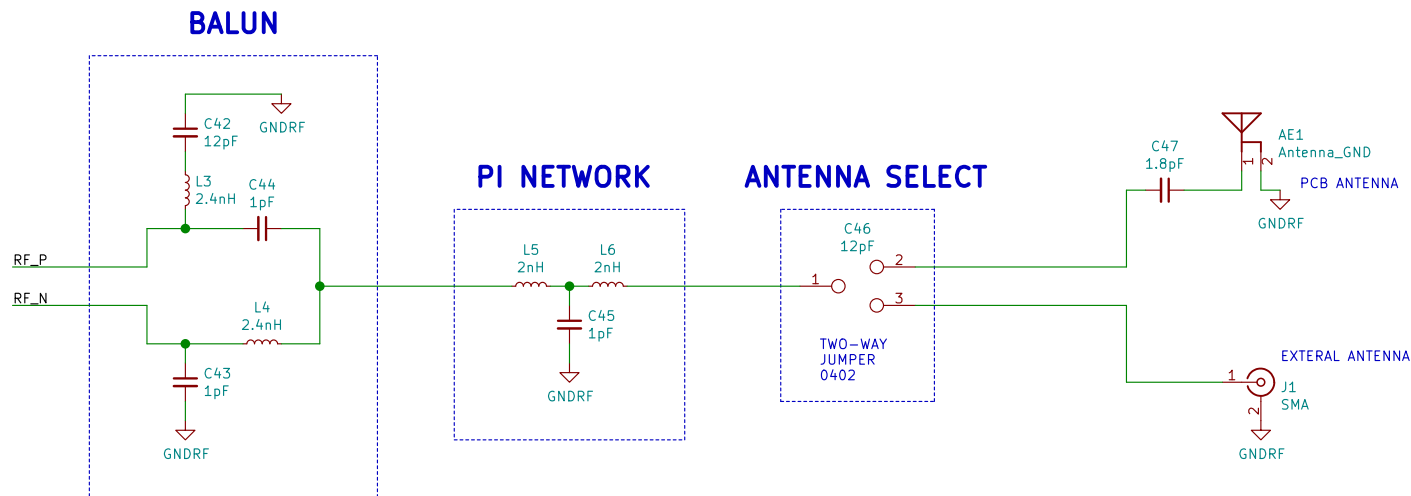
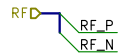
## INDICATORS



## LOW-SIDE DRIVER



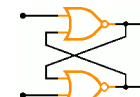




BASED ON LAUNCHXL-CC26X2R1 DESIGN  
MODIFY APPROPRIATELY

ALL PASSIVES 0402 UNLESS OTHERWISE NOTED

Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
California Institute of Technology  
Sheet: /rf/  
File: rf.sch



**Caltech** **EE**

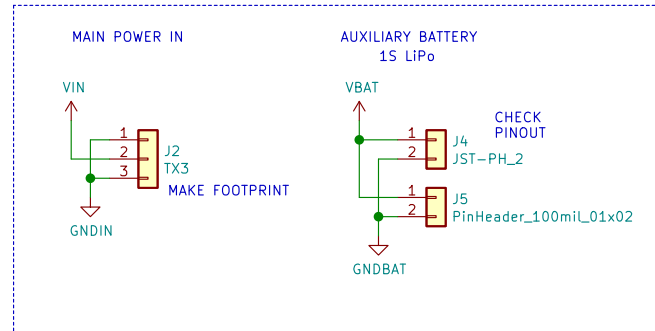
**PANDORA**

**Title: Pandora CC2652R Development Board**

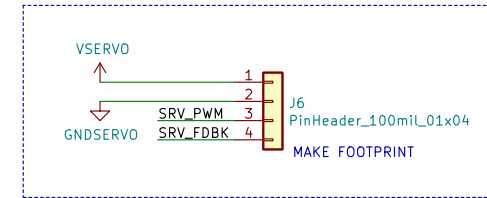
Size: A4      Date: 2020-02-08  
KiCad E.D.A. kicad (5.1.5)-2

Rev: A  
Id: 9/11

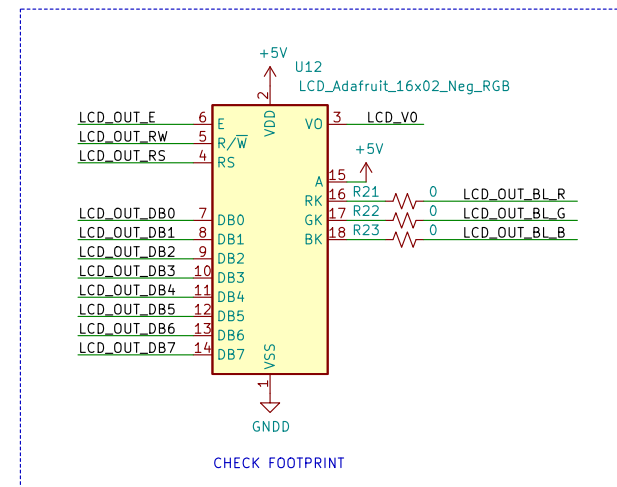
## POWER



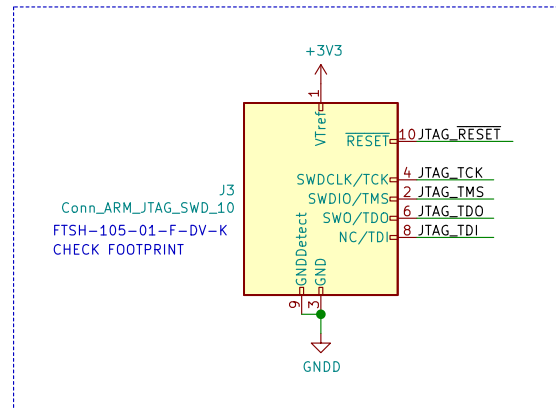
## SERVO



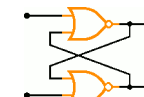
## LCD



## JTAG



Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
California Institute of Technology



**Caltech EE**

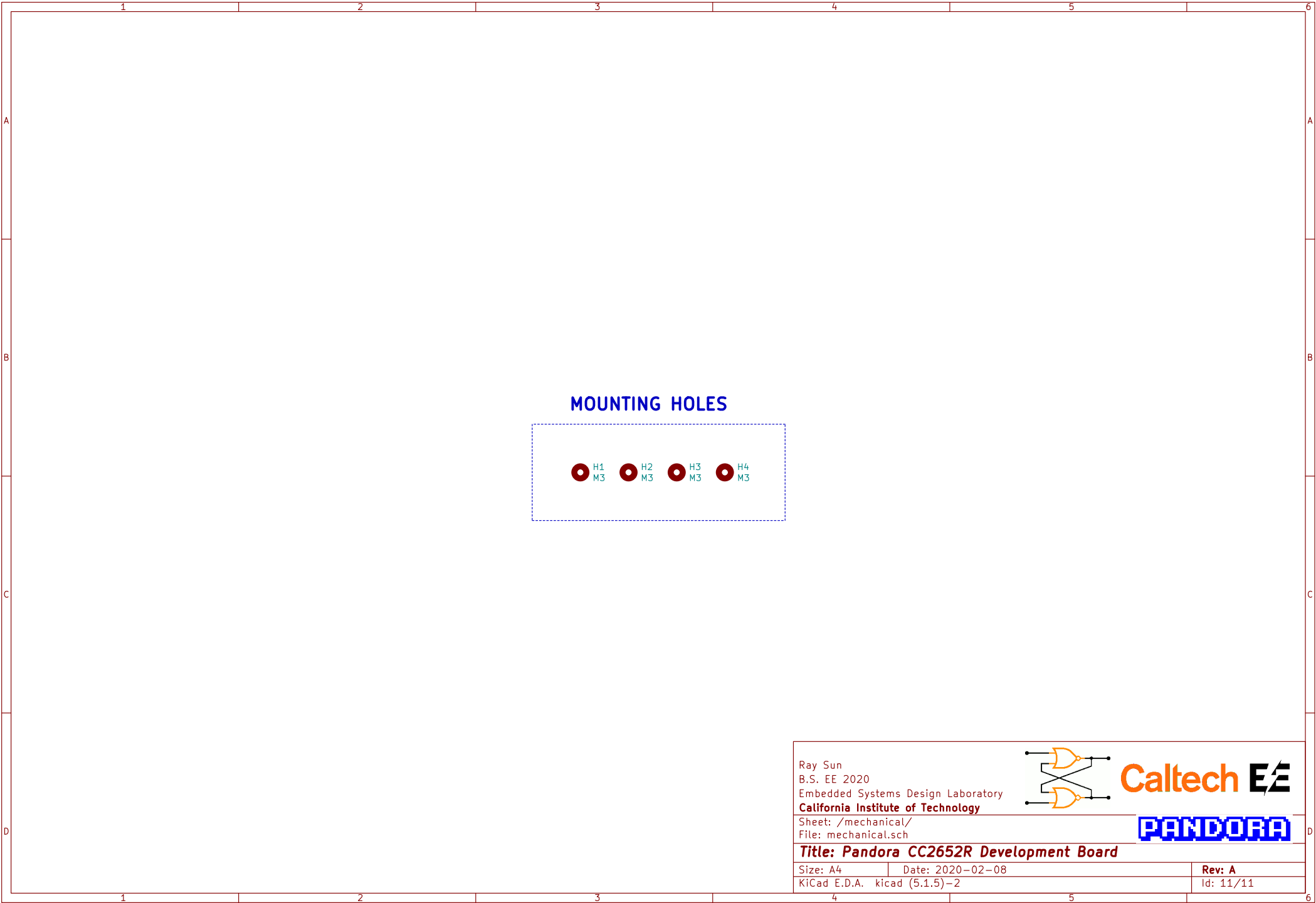
Sheet: /connectors/  
File: connectors.sch

**PANDORA**

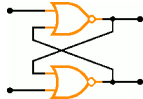
**Title: Pandora CC2652R Development Board**

Size: A4  
Date: 2020-02-08  
KiCad E.D.A. kicad (5.1.5)-2

Rev: A  
Id: 10/11



Ray Sun  
B.S. EE 2020  
Embedded Systems Design Laboratory  
**California Institute of Technology**  
Sheet: /mechanical/  
File: mechanical.sch



**Caltech** **EE**  
**PANDORA**

<b>Title: Pandora CC2652R Development Board</b>		
Size: A4	Date: 2020-02-08	Rev: A
KiCad E.D.A. kicad (5.1.5)-2		Id: 11/11