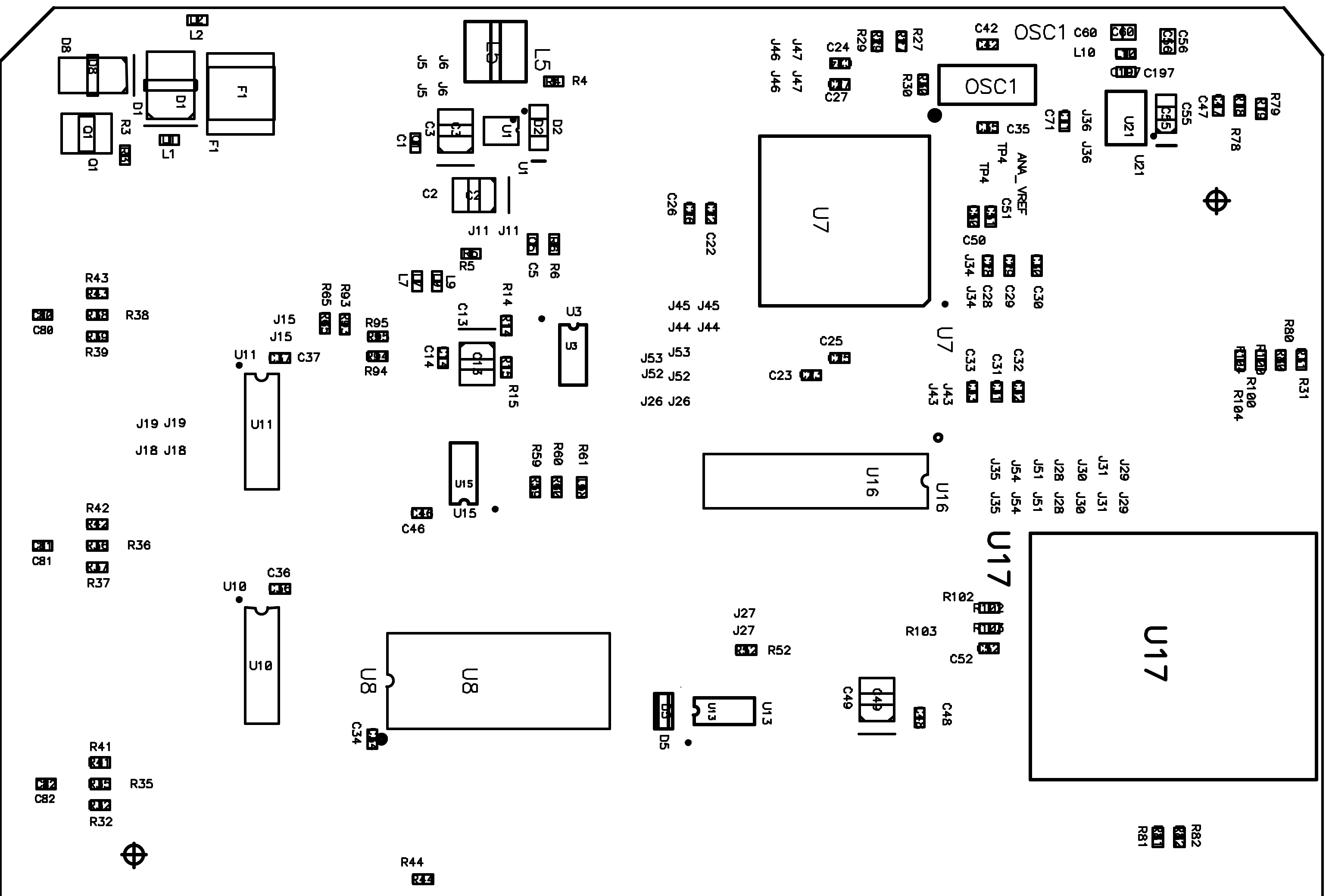
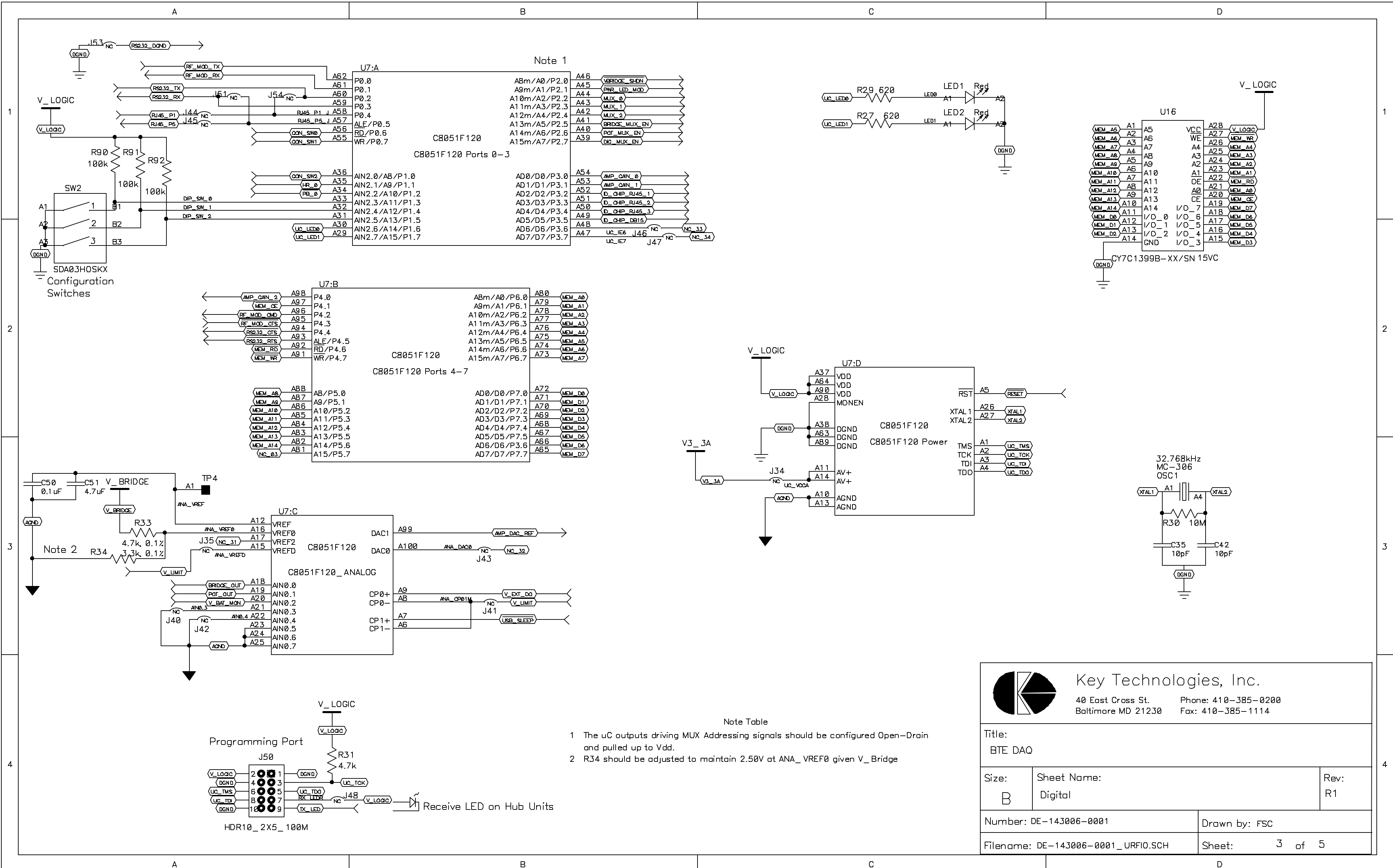




BM2.1000-300C41  
B22.1000-300C41  
B2A.1000-300C41  
BA7.1000-300C41

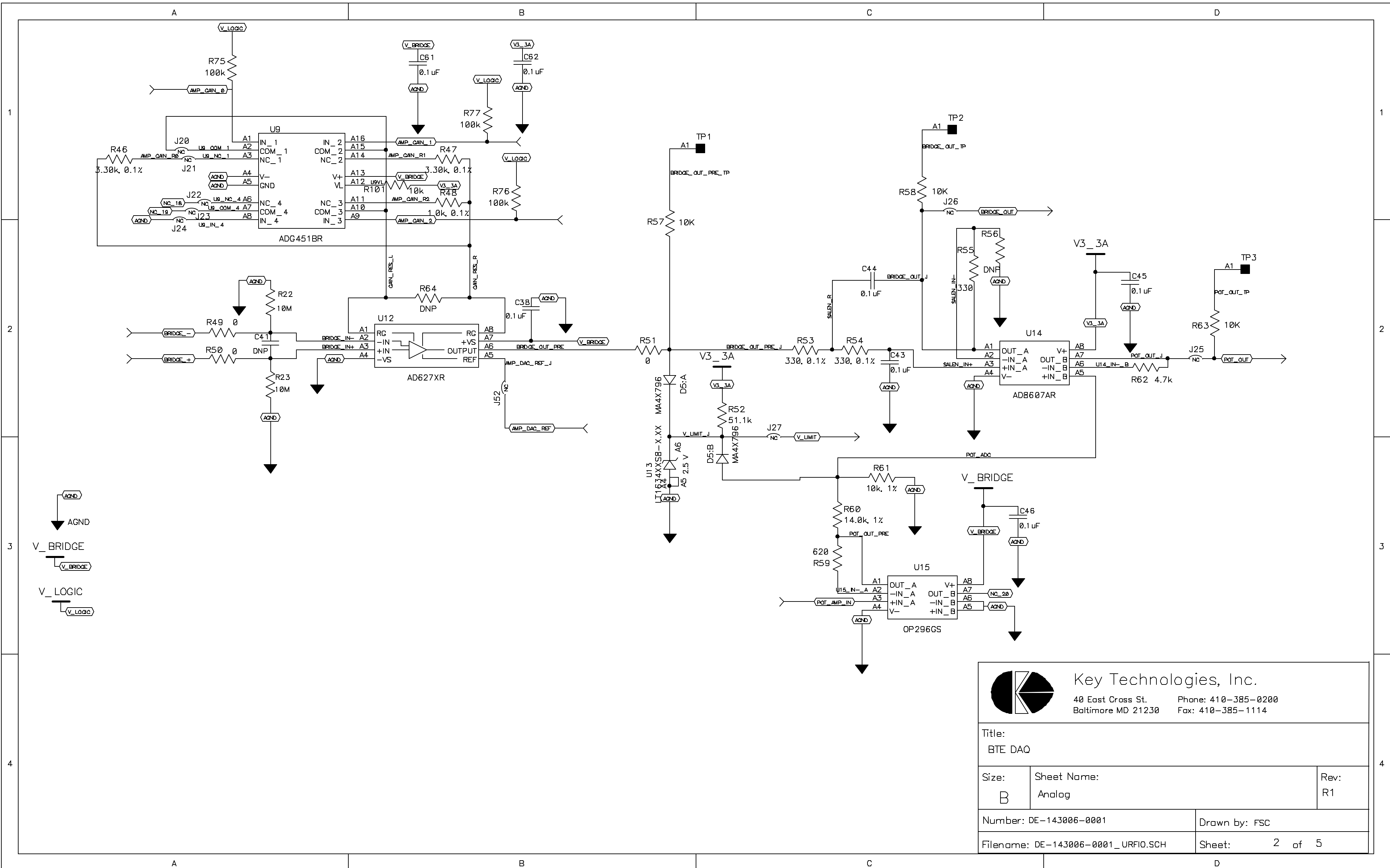


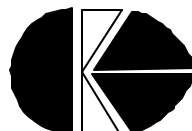


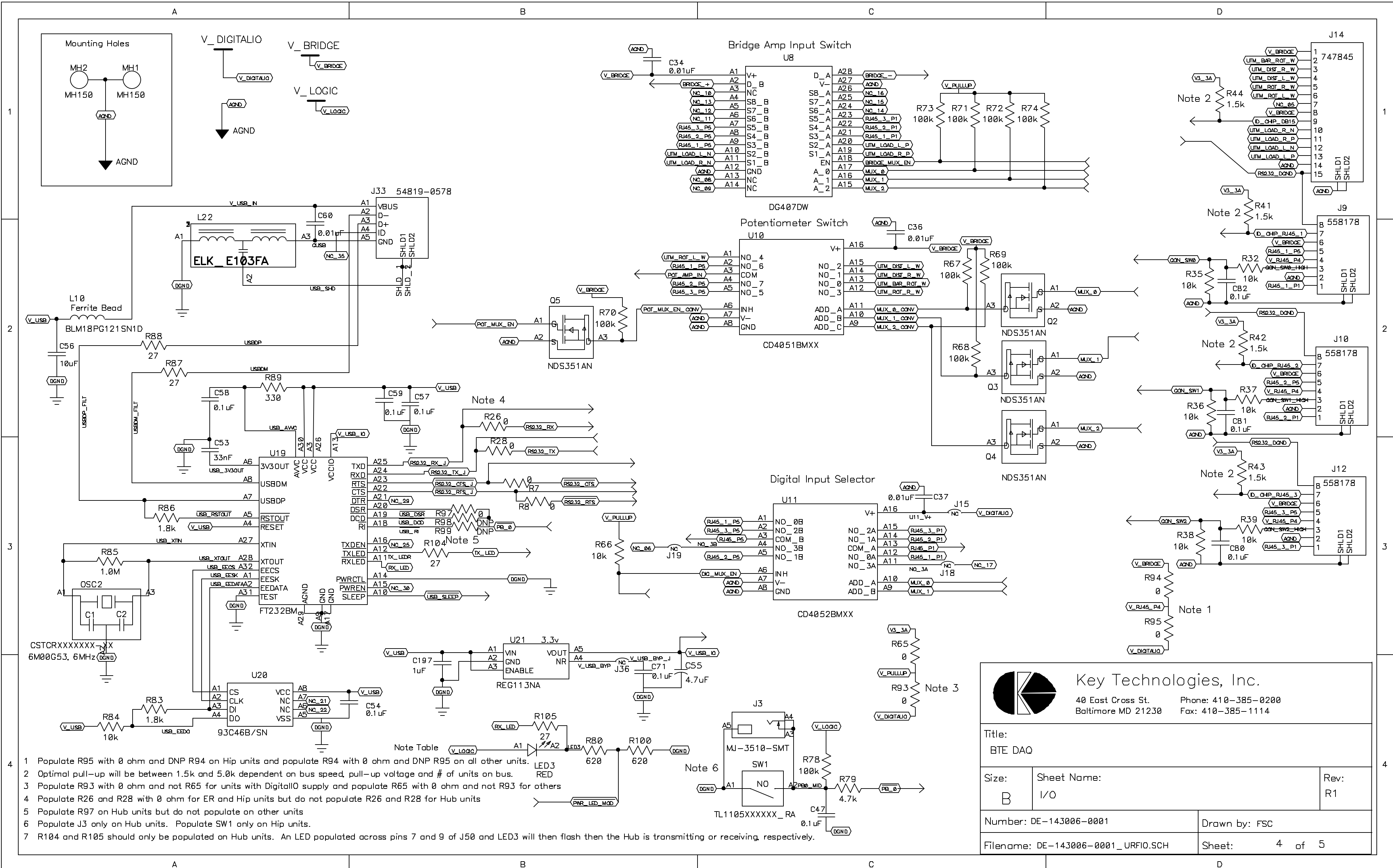
- Note Table
- The uC outputs driving MUX Addressing signals should be configured Open-Drain and pulled up to Vdd.
  - R34 should be adjusted to maintain 2.50V at ANA\_VREF0 given V\_Bridge

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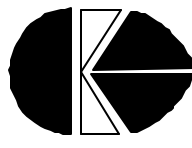
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Size: B	Sheet Name: Digital	Rev: R1
Number: DE-143006-0001		Drawn by: FSC
Filename: DE-143006-0001_URFIO.SCH		Sheet: 3 of 5



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Title: BTE DAO		
Size: B	Sheet Name: Analog	Rev: R1
Number: DE-143006-0001		Drawn by: FSC
Filename: DE-143006-0001_URFIO.SCH		Sheet: 2 of 5



- 1 Populate R95 with 0 ohm and DNP R94 on Hip units and populate R94 with 0 ohm and DNP R95 on all other units.  
 2 Optimal pull-up will be between 1.5k and 5.0k dependent on bus speed, pull-up voltage and # of units on bus.  
 3 Populate R93 with 0 ohm and not R65 for units with DigitalIO supply and populate R65 with 0 ohm and not R93 for others  
 4 Populate R26 and R28 with 0 ohm for ER and Hip units but do not populate R26 and R28 for Hub units  
 5 Populate R97 on Hub units but do not populate on other units  
 6 Populate J3 only on Hub units. Populate SW1 only on Hip units.  
 7 R104 and R105 should only be populated on Hub units. An LED populated across pins 7 and 9 of J50 and LED3 will then flash then the Hub is transmitting or receiving, respectively.



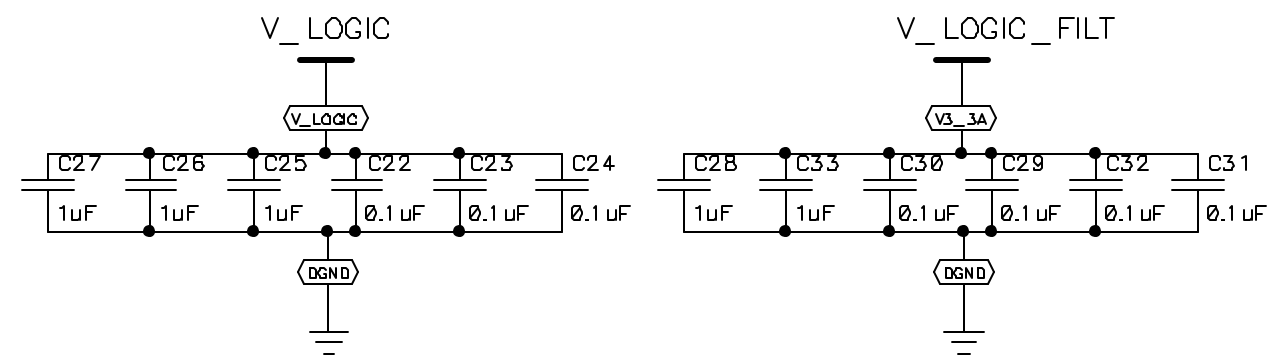
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Title: BTE DAO

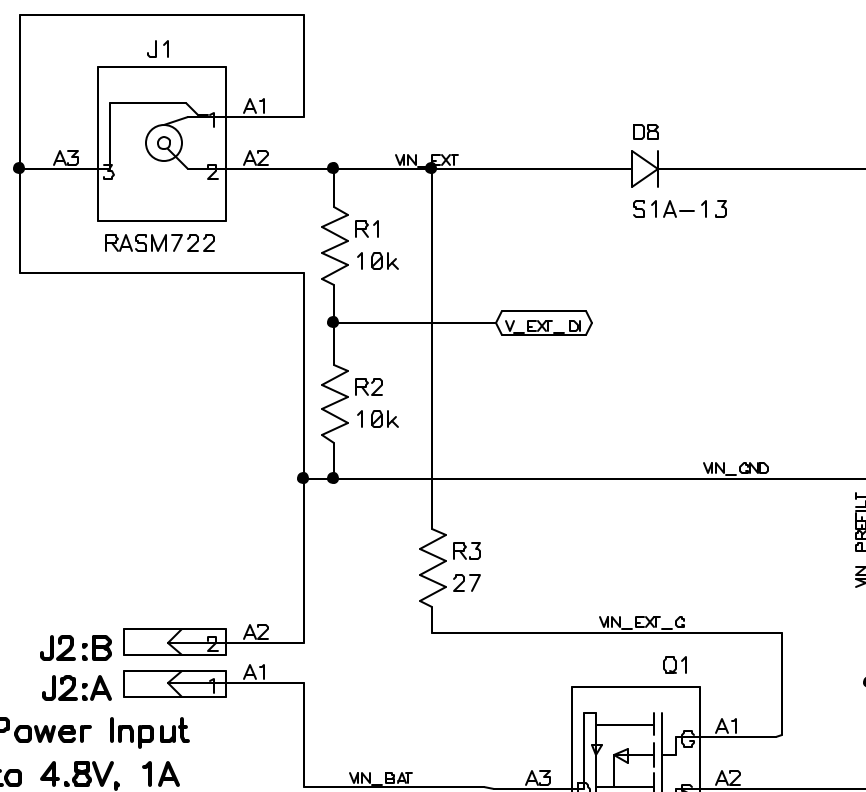
Size: B	Sheet Name: I/O	Rev: R1
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Number: DE-143006-0001      Drawn by: FSC

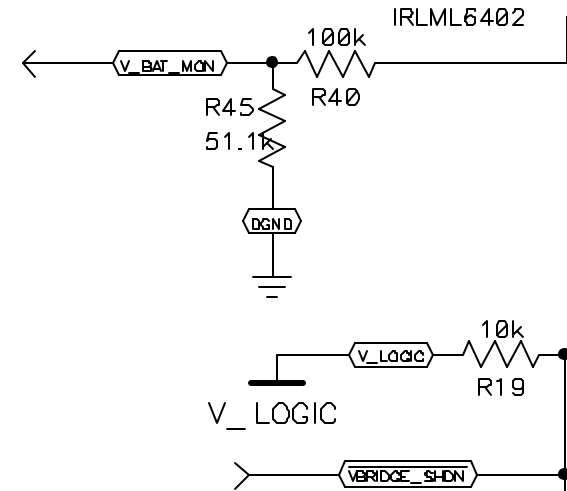
Filename: DE-143006-0001\_URFIO.SCH      Sheet: 4 of 5



**External Power Input**  
V=4.8V to 6.2V, 0.6A

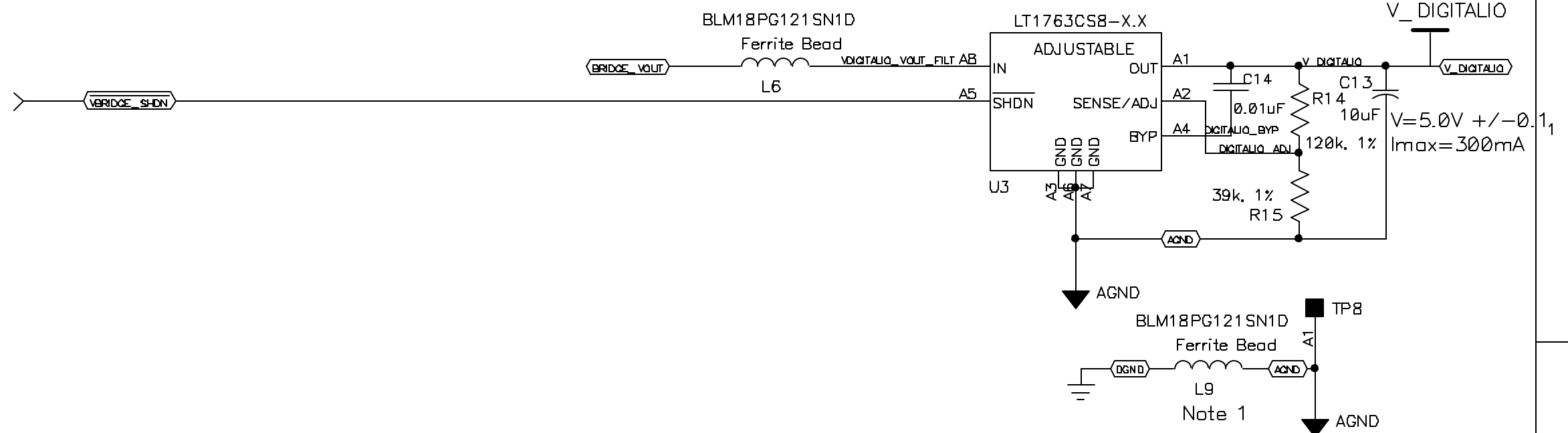


**Battery Power Input**  
V=2.5V to 4.8V, 1A

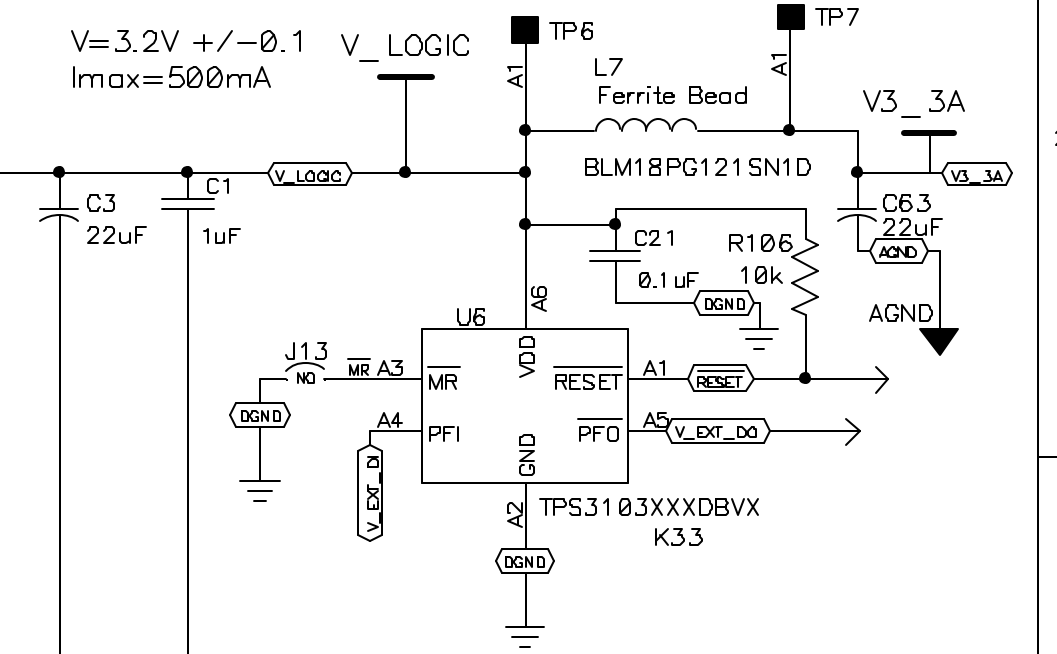
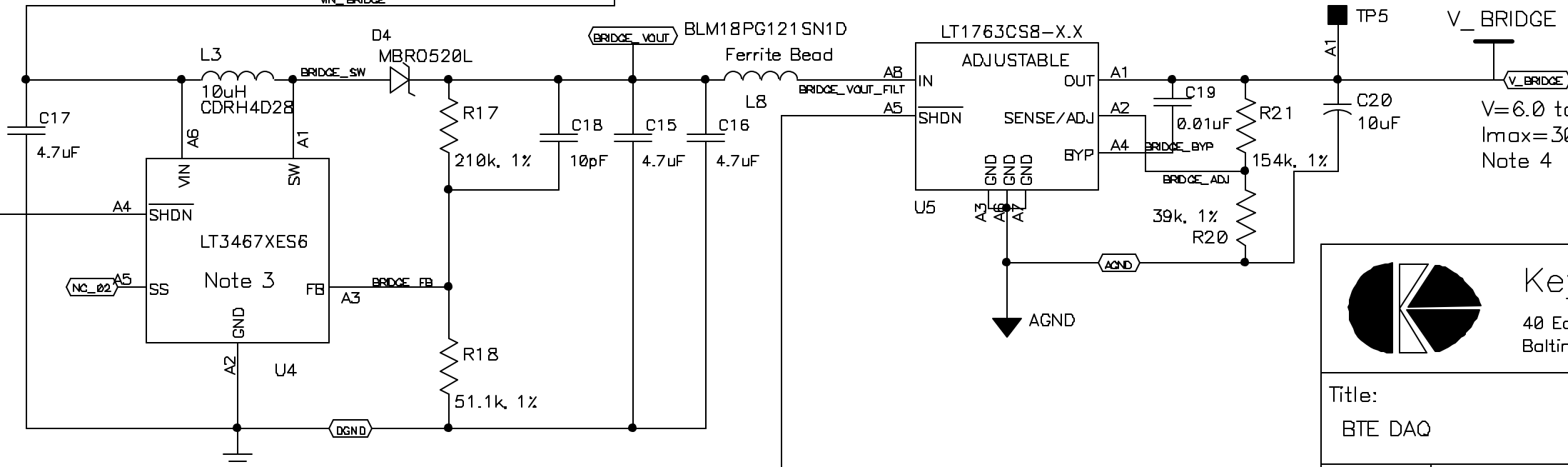
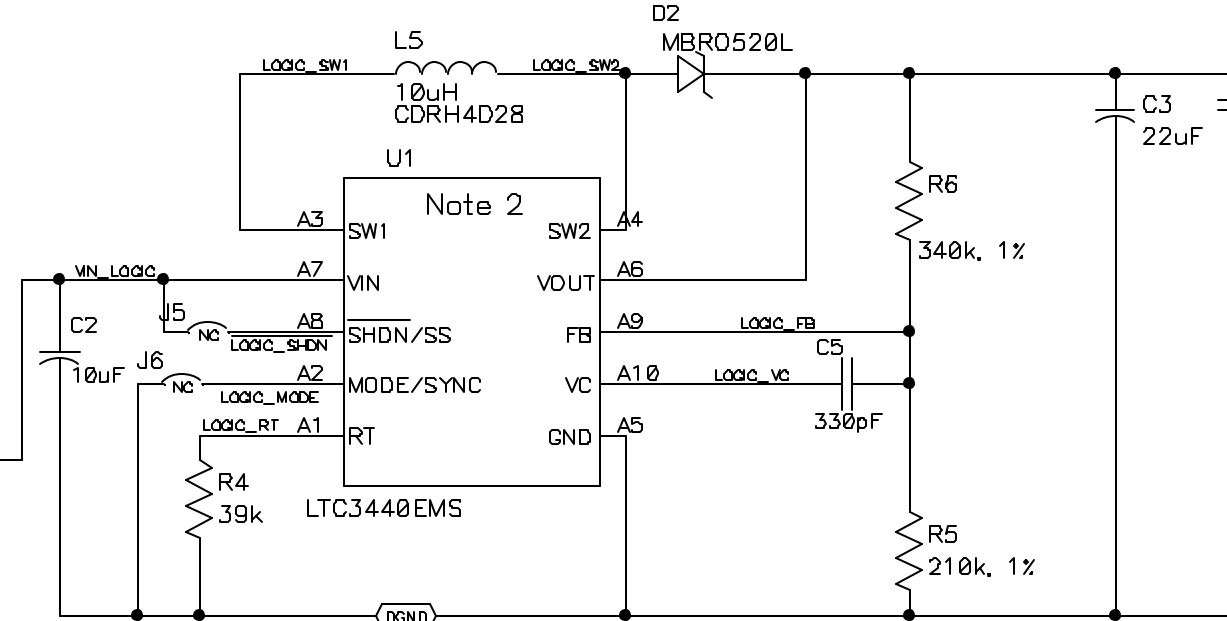


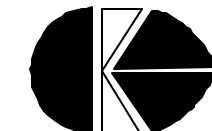
**Note Table**

- 1 Connect digital and analog grounds at U5
- 2 Follow layout guidelines on page 10 of the datasheet.
- 3 Follow layout guidelines on page 7 of the datasheet.
- 4 V\_Bridge can be adjusted from 6 to 12V. Care must be taken to change the values of the following components when the voltage is changed: R17, R18, R20, R21, R32, R33, R37, R39 and R60.



**Power Switch**

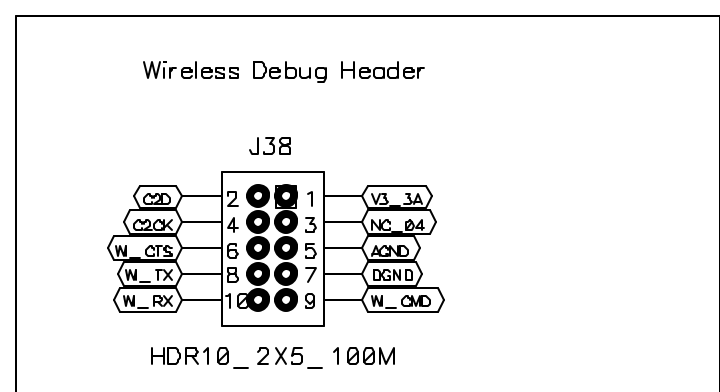
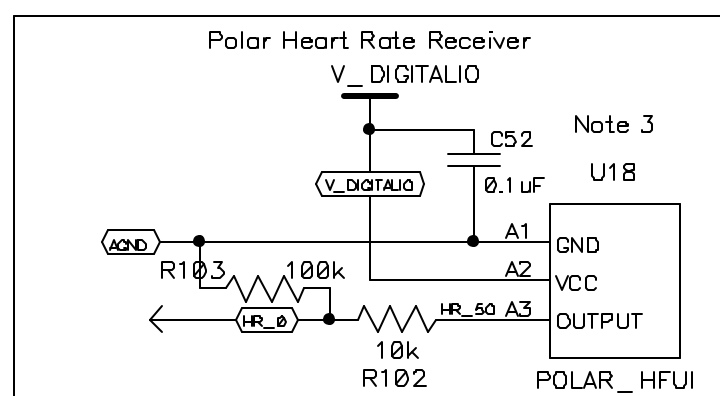
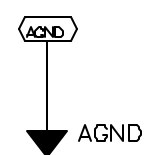
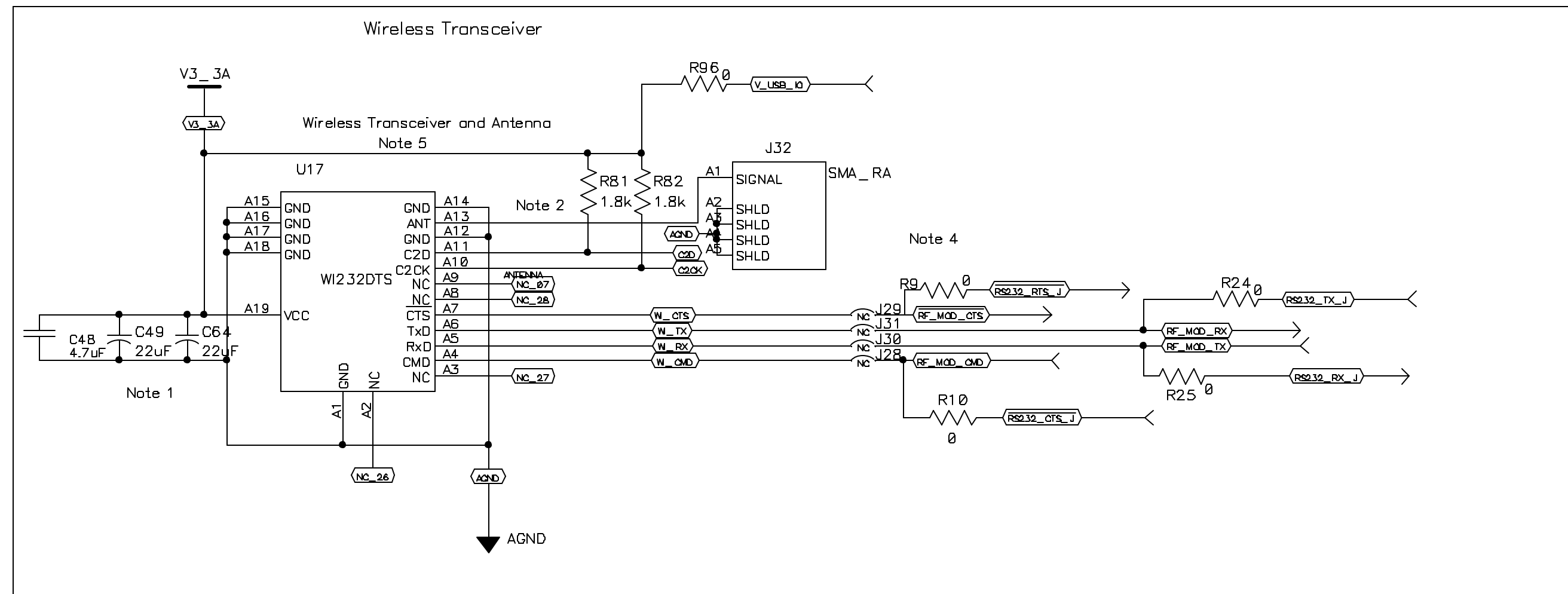




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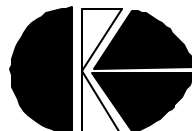
Title: BTE DAO

Size: B	Sheet Name: Power	Rev: R1
Number: DE-143006-0001		Drawn by: FSC
Filename: DE-143006-0001_URFIO.SCH		Sheet: 1 of 5



Note Table

- Decoupling capacitors for wireless transceiver. Place as close to the transceiver as possible. Bring VCC leads out to capacitors before flashing to the power plane.
- Antenna should be as close to module as possible.
- Polar receiver coil should be oriented parallel to the transmitting coil and away from switching power supplies.
- Populate R9, R10, R24, R25 and R96 with 0 ohm for Hub units and do not populate R9, R10, R24, R25 and R96 for other units
- Antenna trace impedance should be 50ohms

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		BTE DAO	
Size:	Sheet Name:	Rev:	
B	RF	R1	
Number: DE-143006-0001		Drawn by: FSC	
Filename: DE-143006-0001_URFIO.SCH		Sheet: 5 of 5	