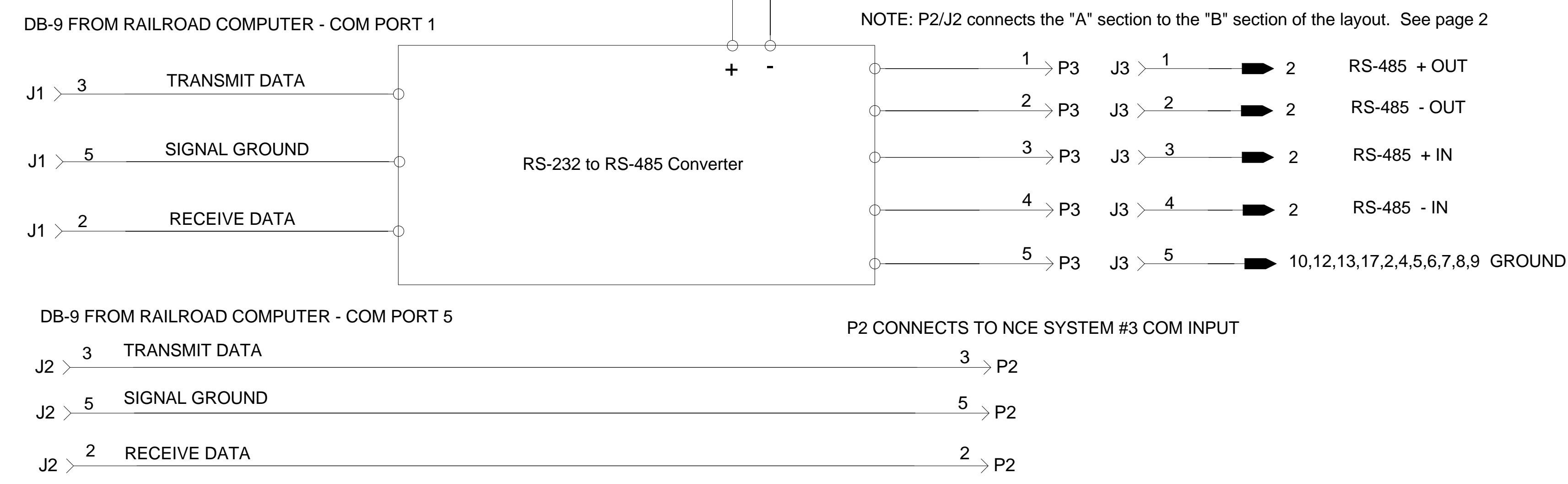
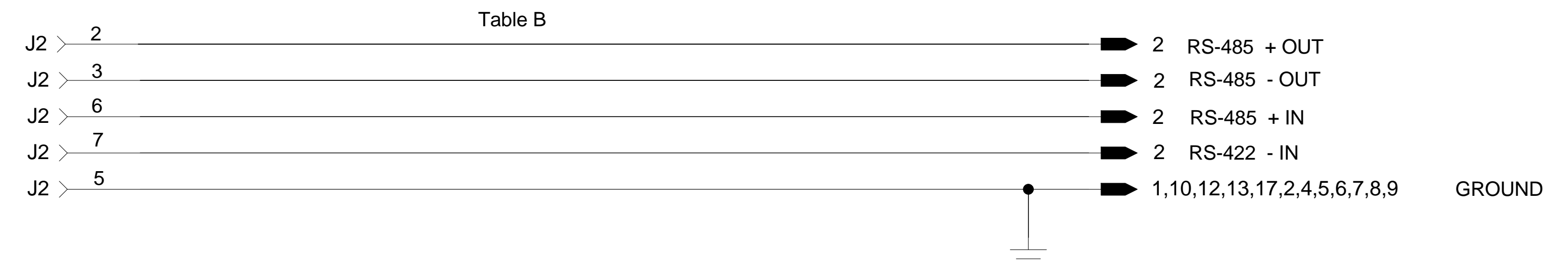
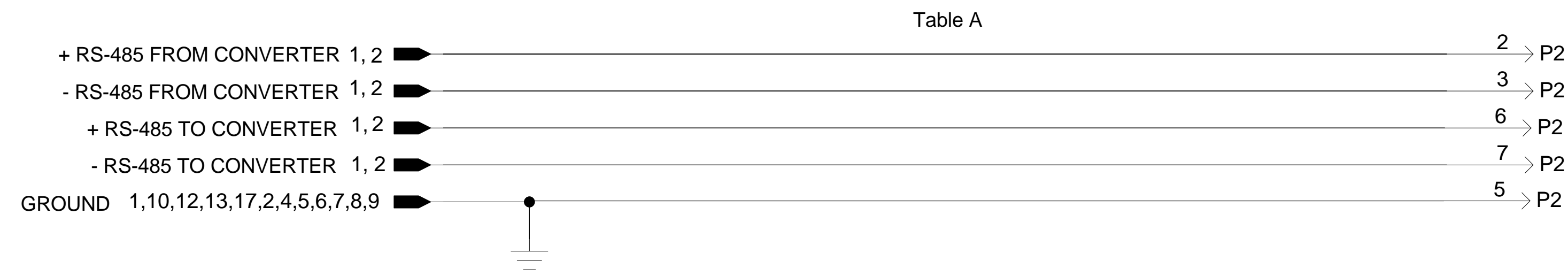


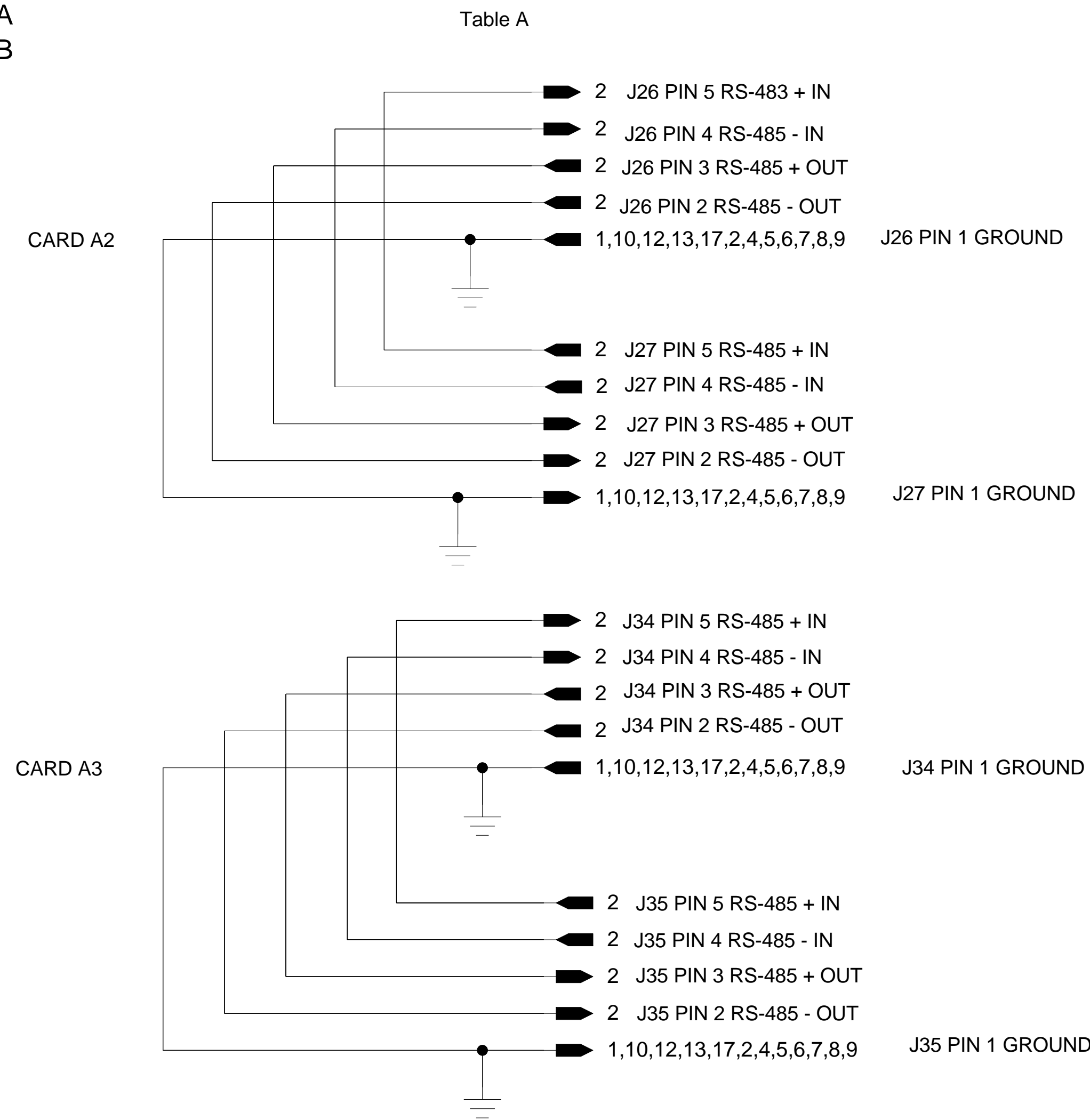
- Notes:**
1. DCC System #3 = TRACK_POWER_1
 2. DCC System #1 = TRACK_POWER_2
 3. DCC System #2 = TRACK_POWER_3
 4. Track bus wiring is 16 GA wire.
 5. Track feeder wires are 26GA wire.
 6. Track_Power_1, _2, _3, and +5_VDC_-RED have connectors between Sections A and B.
 7. CAB_BUS has two connectors between Sections A and B.
 8. All RS-235 and RS-485 cables are twisted shielded pair.



Schematics current as of: 04/04/16



- NOTE:
1. All RS-485 cables are twisted shielded pair.
 2. Card A2 and A3 are on table A
 3. Card A0 and A1 are on table B

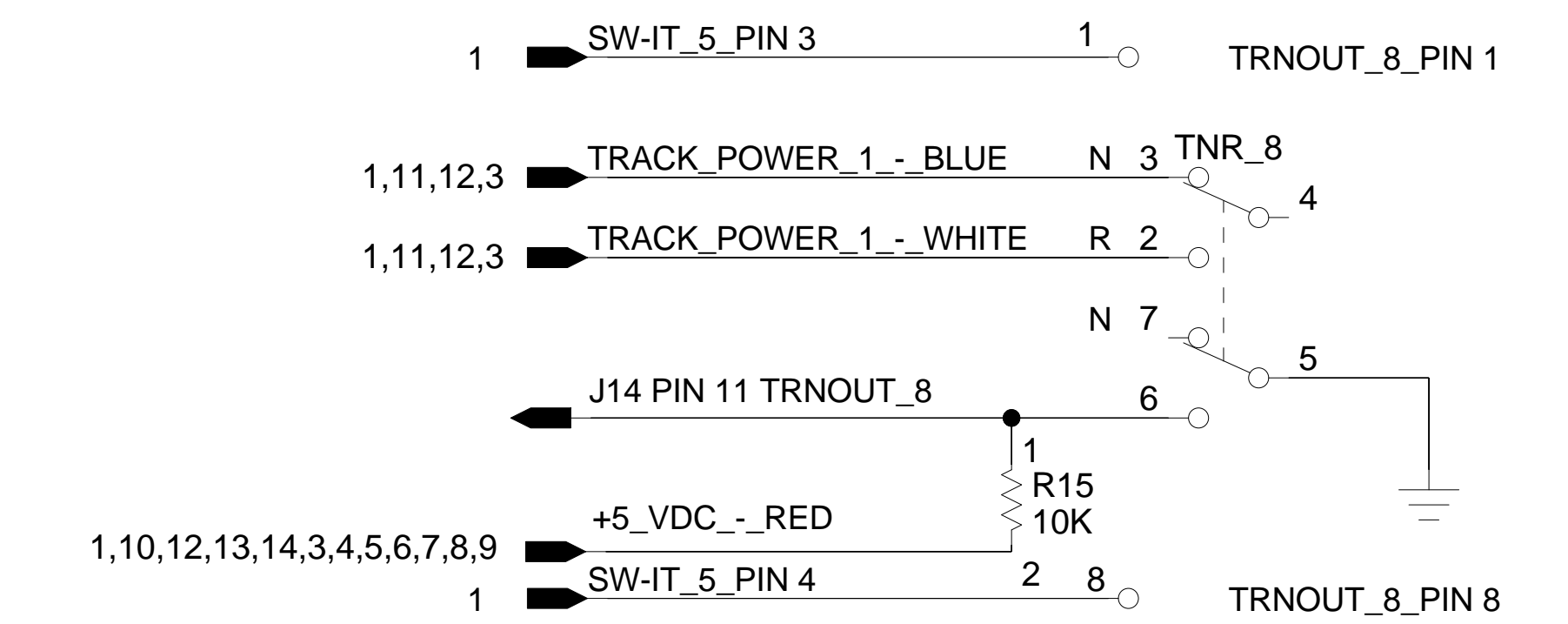
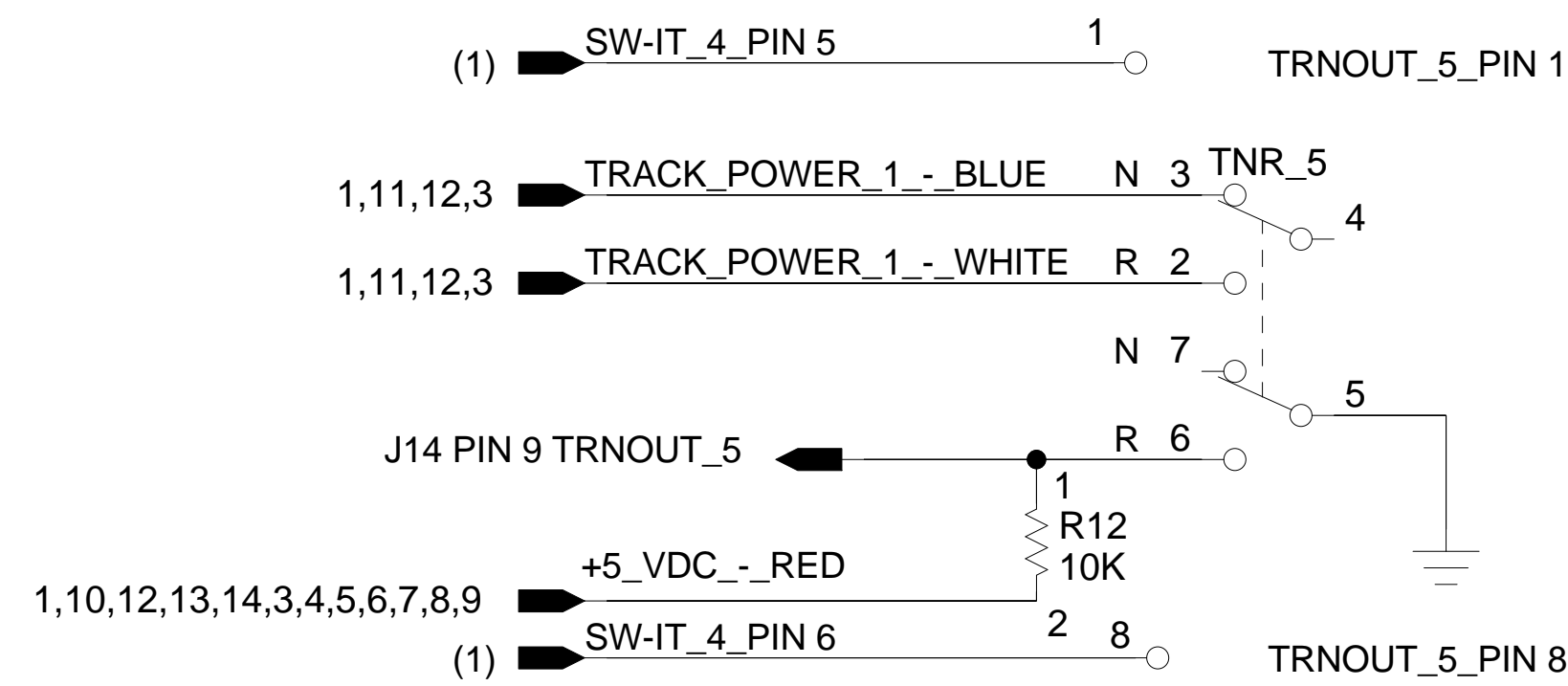
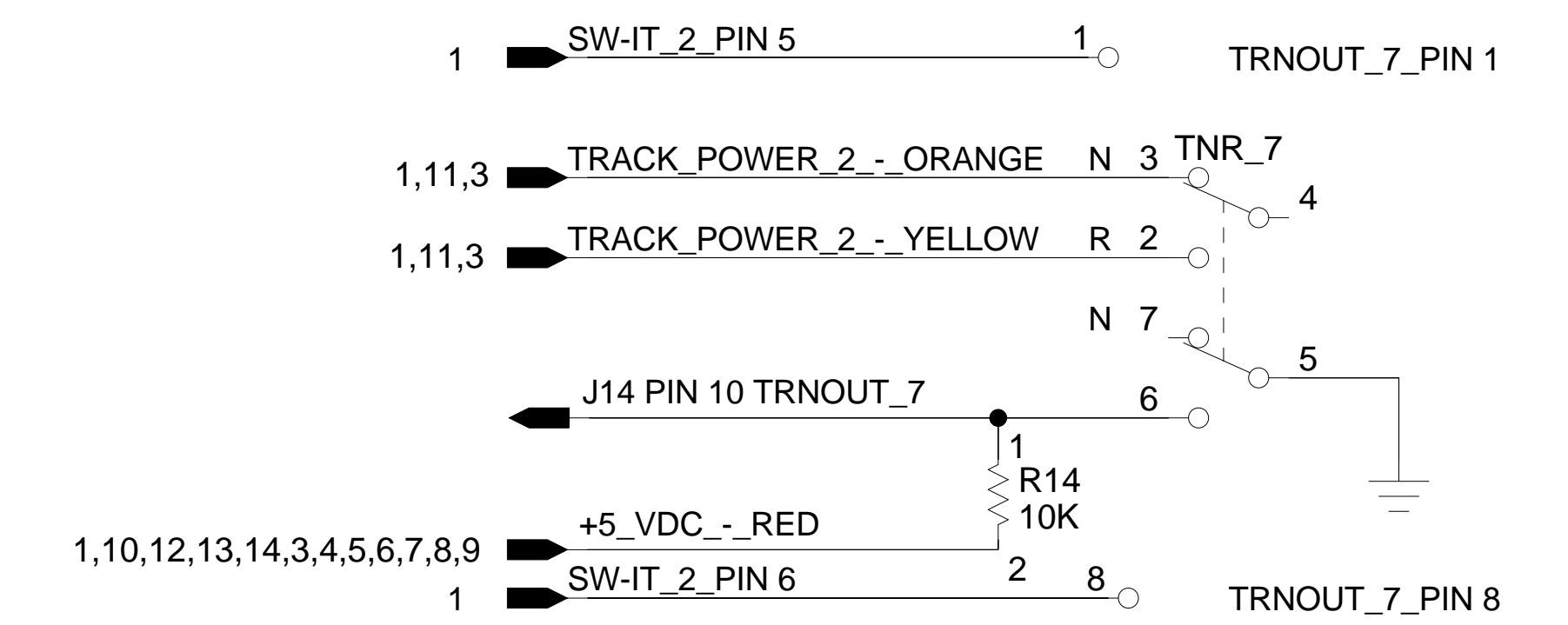
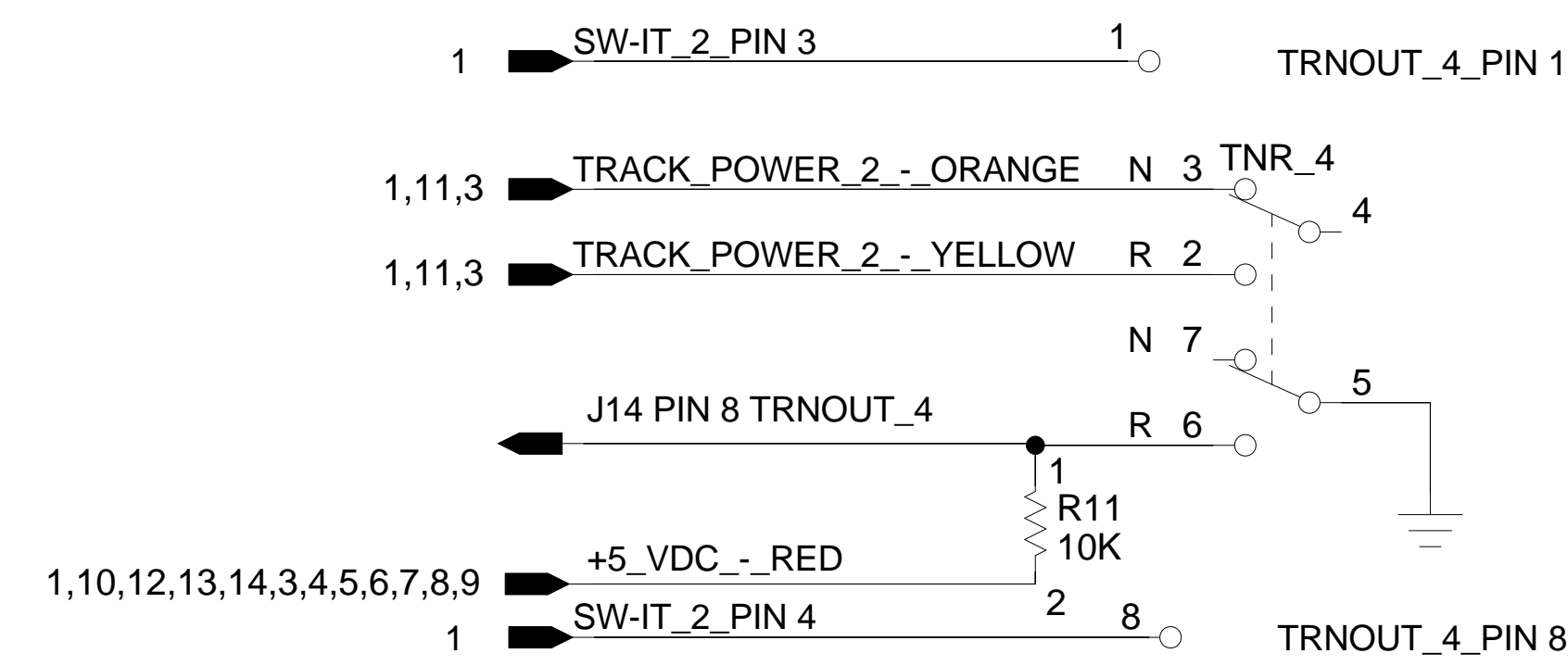
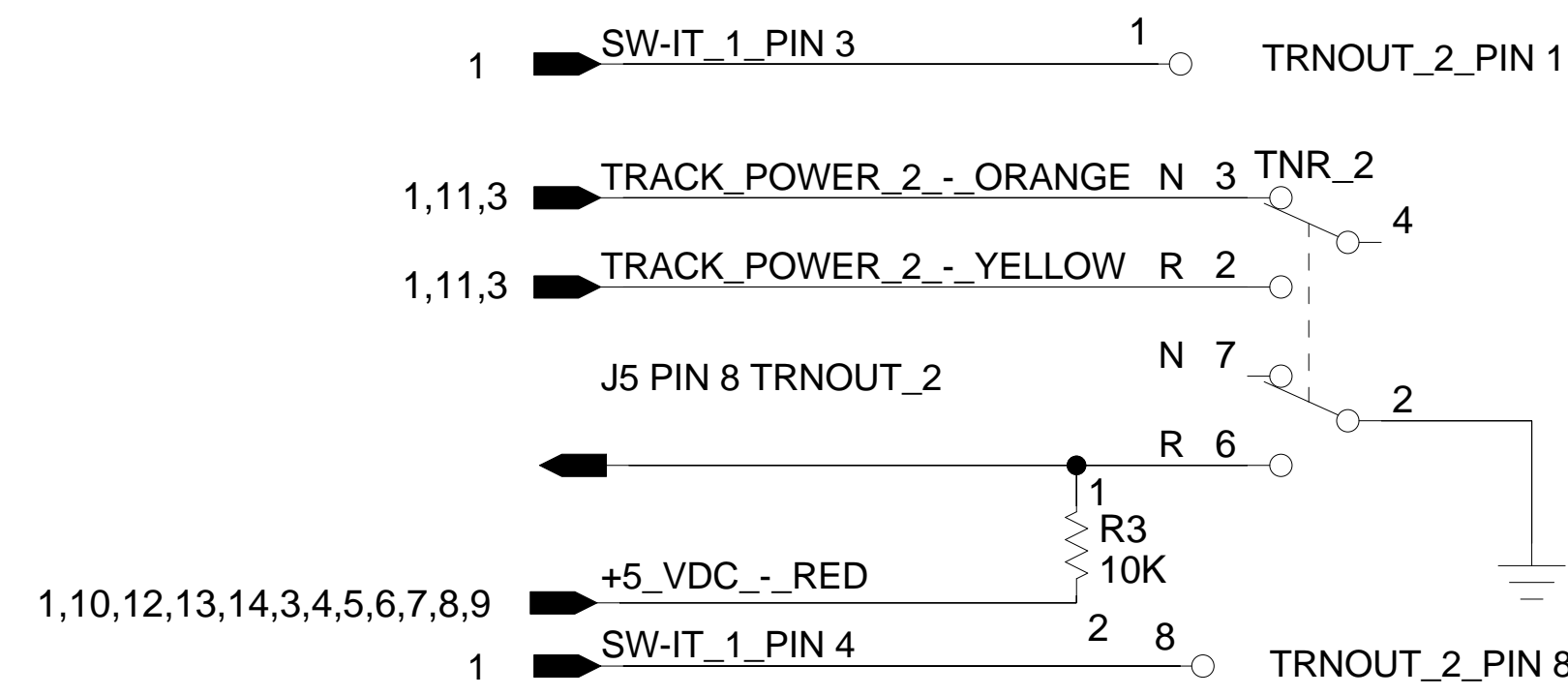
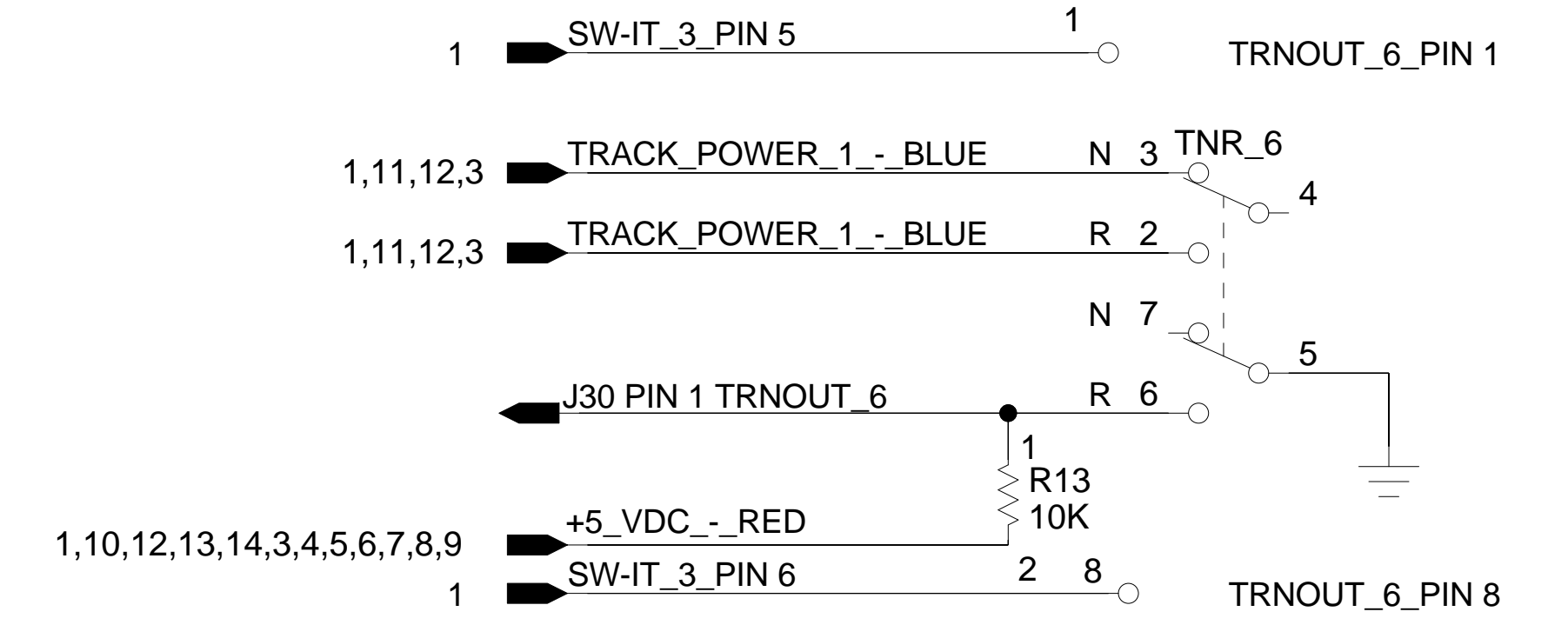
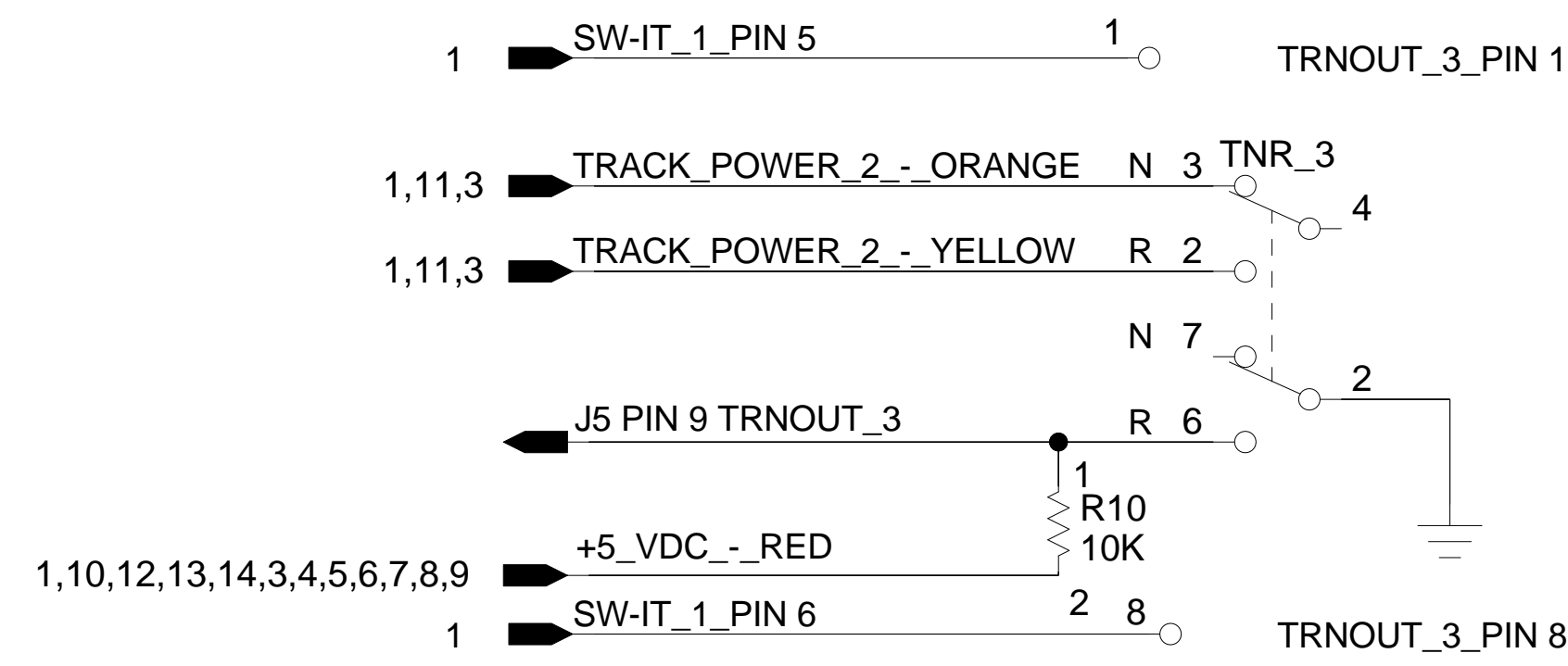
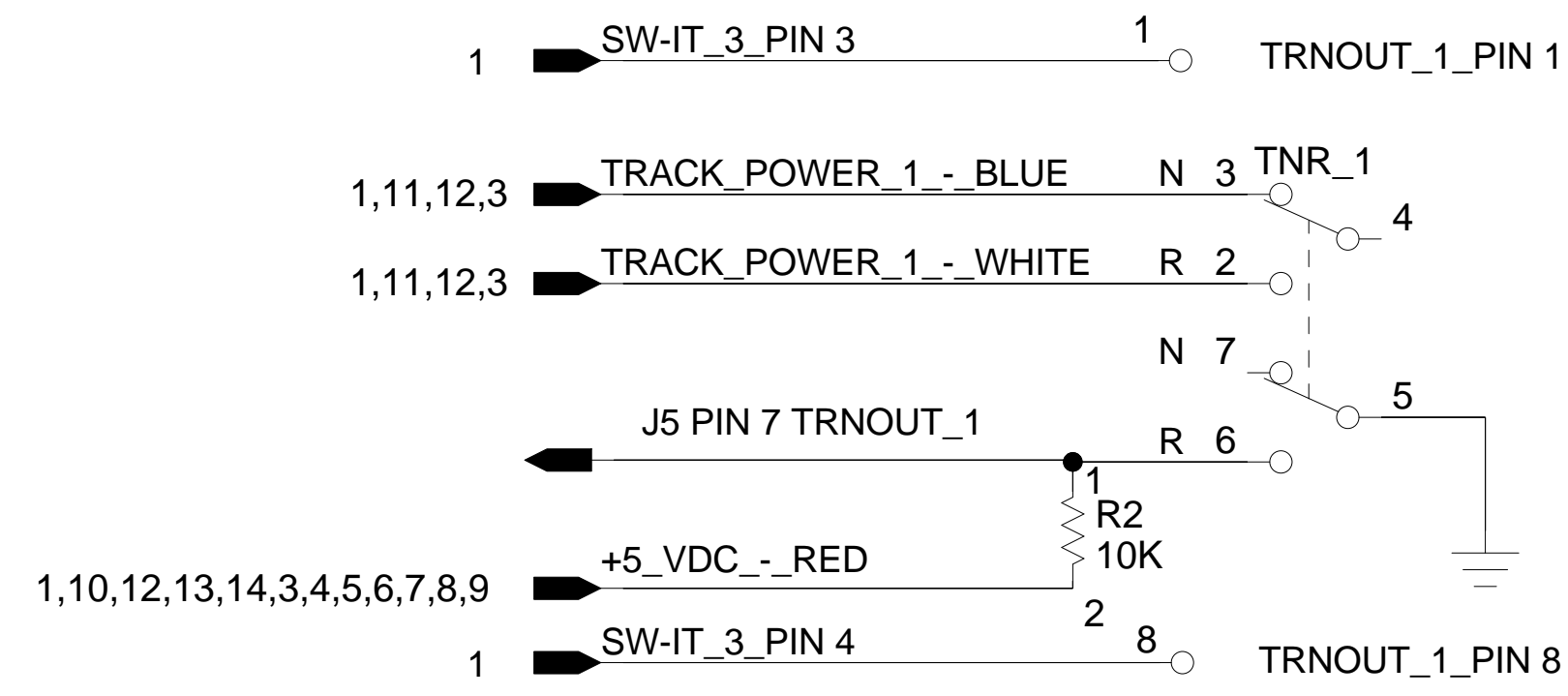


NOTE: Card A2 and A3 are located in section "A" of the layout



NOTE: Card A0 and A1 are located in section "B" of the layout

NOTE: All turnouts drawn in the NORMAL (N) position.

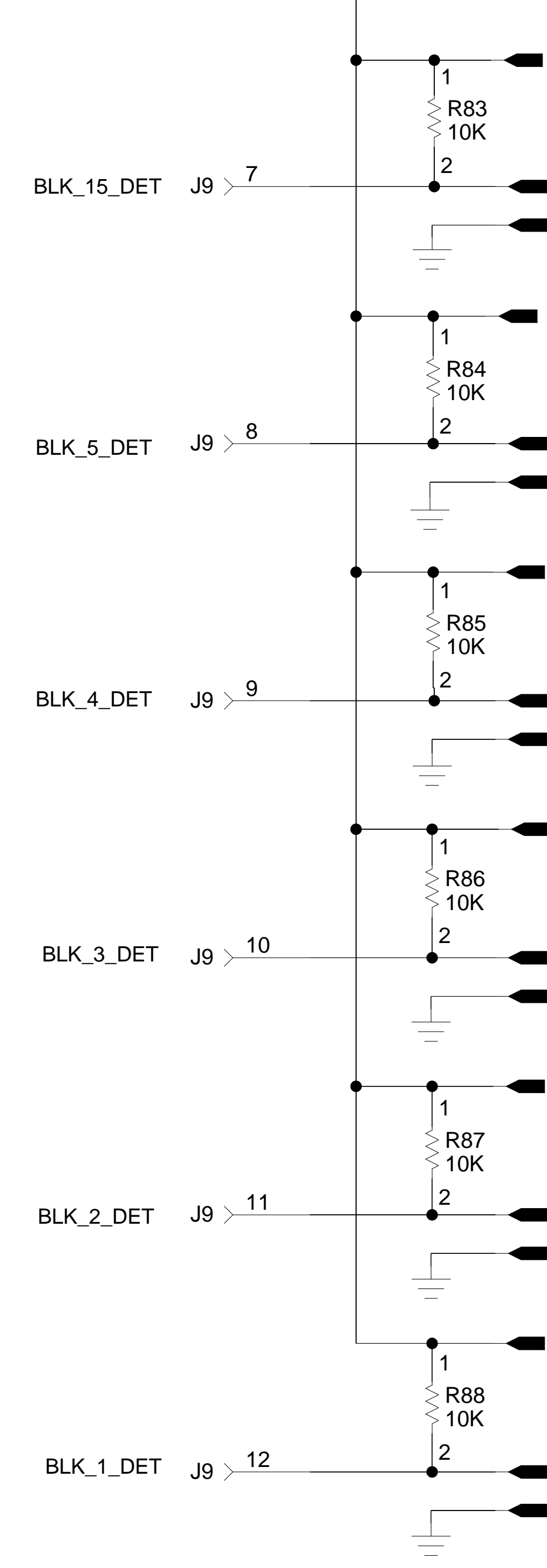
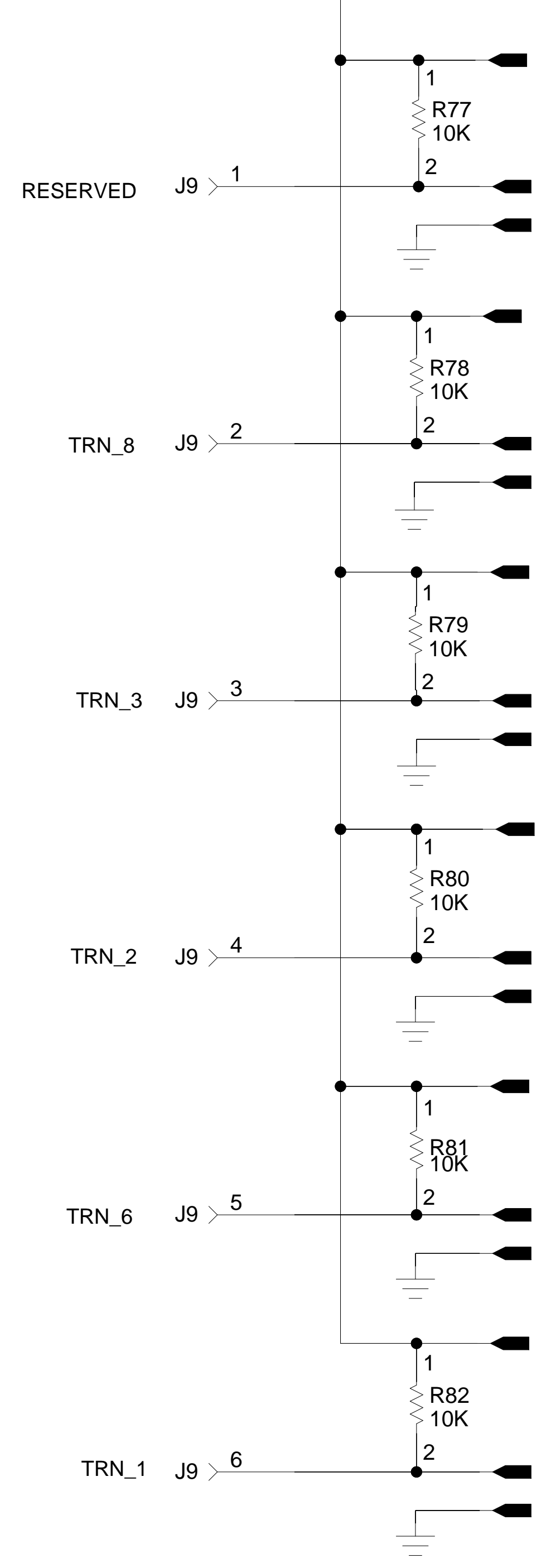
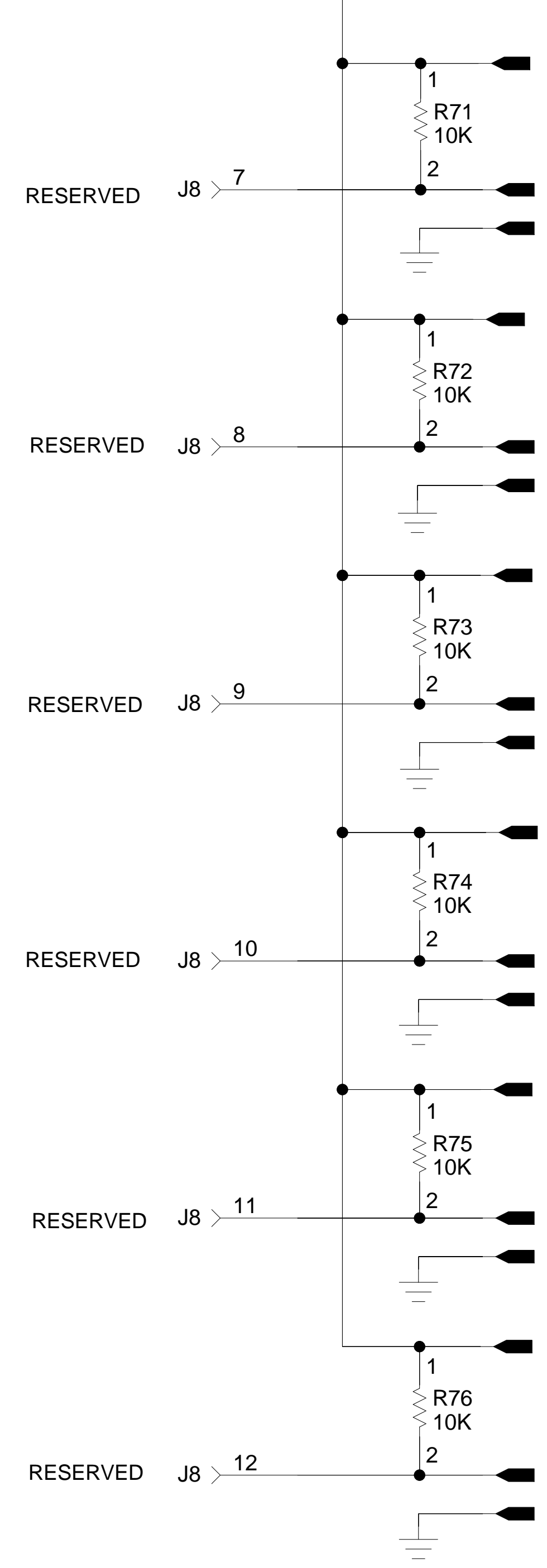
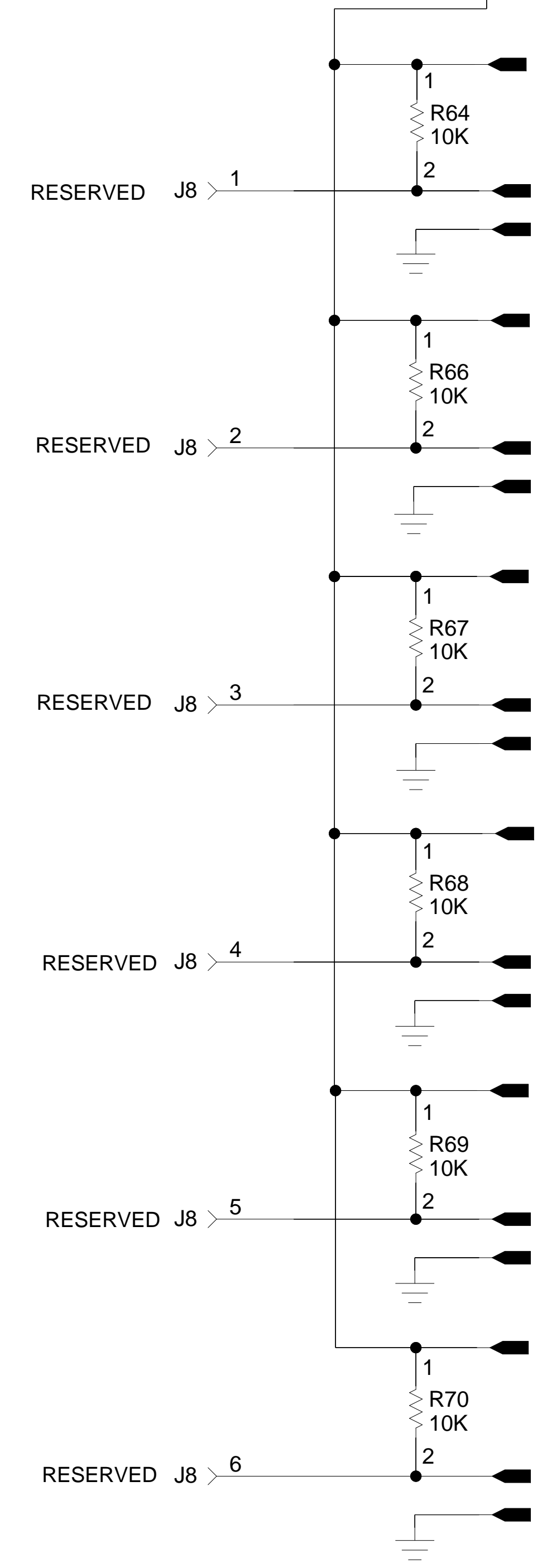


NOTE: 10K pull ups are on SMINI card

TURNOUT WIRING FOR TURNOUTS 1 - 8

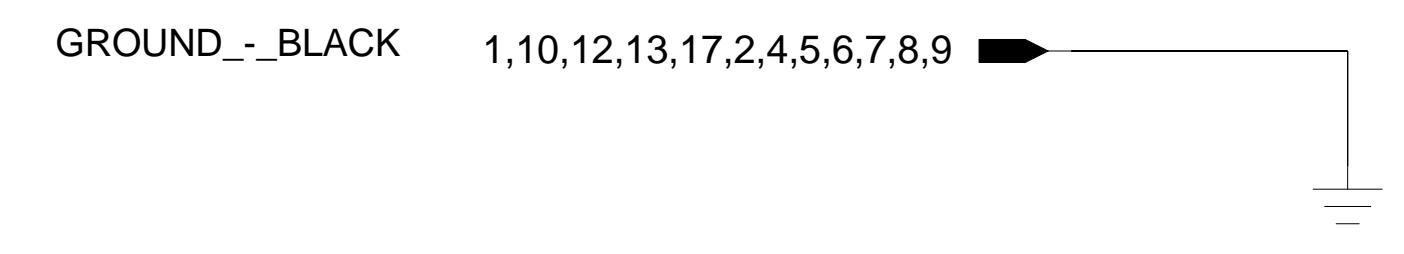
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5_VDC_-_RED 1,10,12,13,14,3,4,5,6,7,8,9



BLK_15_DET_BD_15_PIN 4
BLK_15_DET_BD_15_PIN 2
BLK_15_DET_BD_15_PIN 1
BLK_5_DET_BD_5_PIN 4
BLK_5_DET_BD_5_PIN 2
BLK_5_DET_BD_5_PIN 1
BLK_DET_4_BD_4_PIN 4
BLK_4_DET_BD_4_PIN 2
BLK_4_DET_BD_4_PIN 1
BLK_3_DET_BD_3_PIN 4
BLK_3_DET_BD_3_PIN 2
BLK_3_DET_BD_3_PIN 1
BLK_2_DET_BD2_PIN 4
BLK_2_DET_BD_2_PIN 2
BLK_2_DET_BD_2_PIN 1
BLK_1_DET_BD_1_PIN 4
BLK_1_DET_BD_1_PIN 2
BLK_1_DET_BD_1_PIN 1

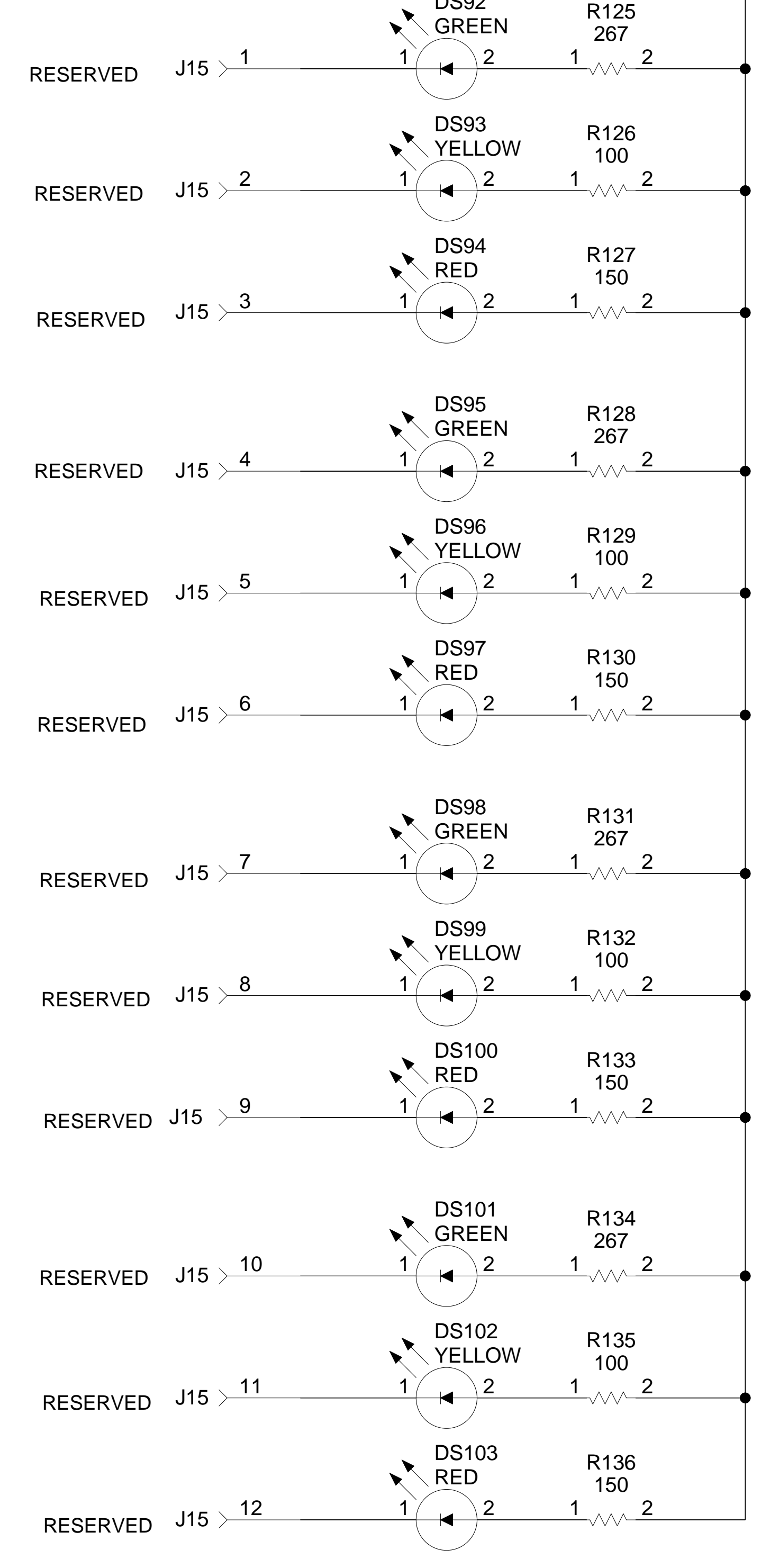
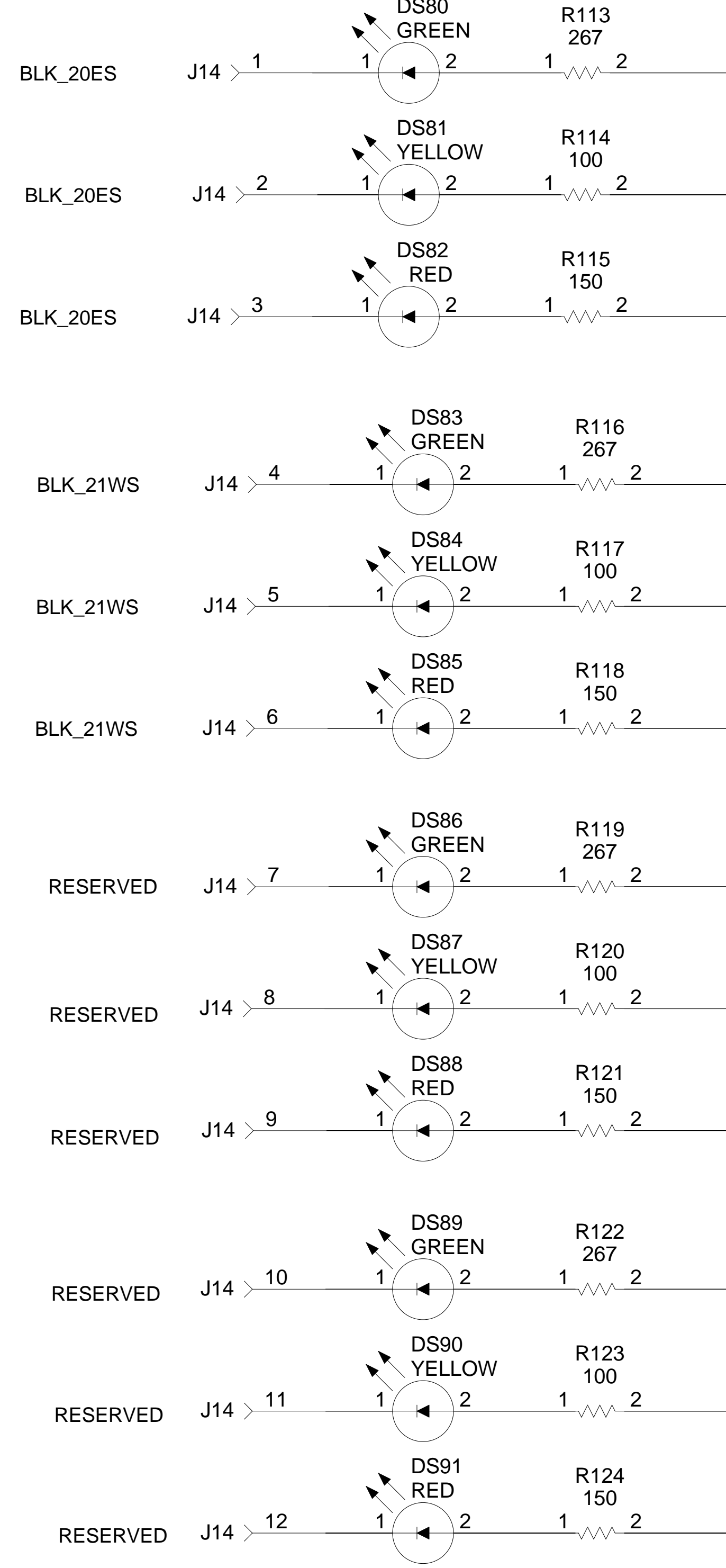
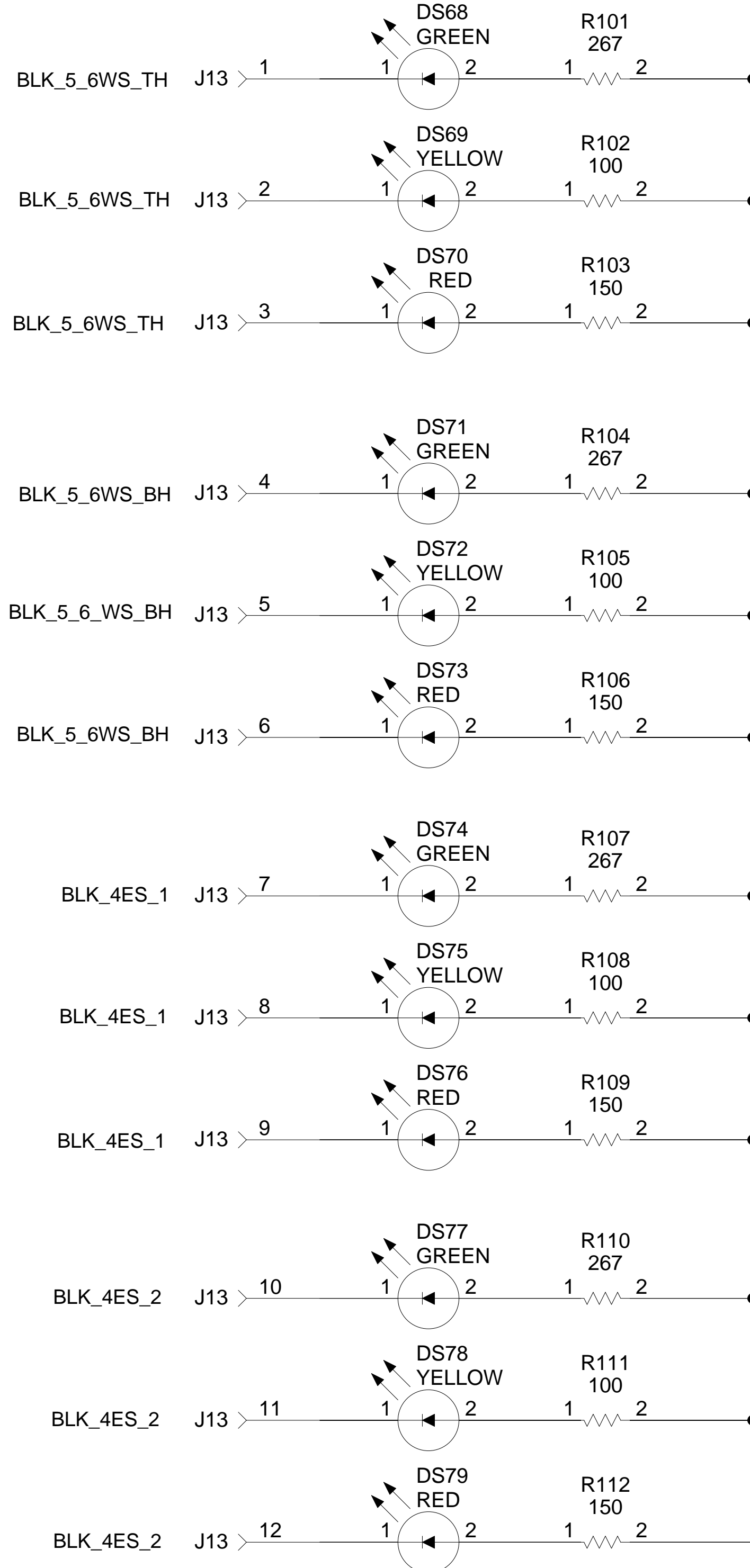
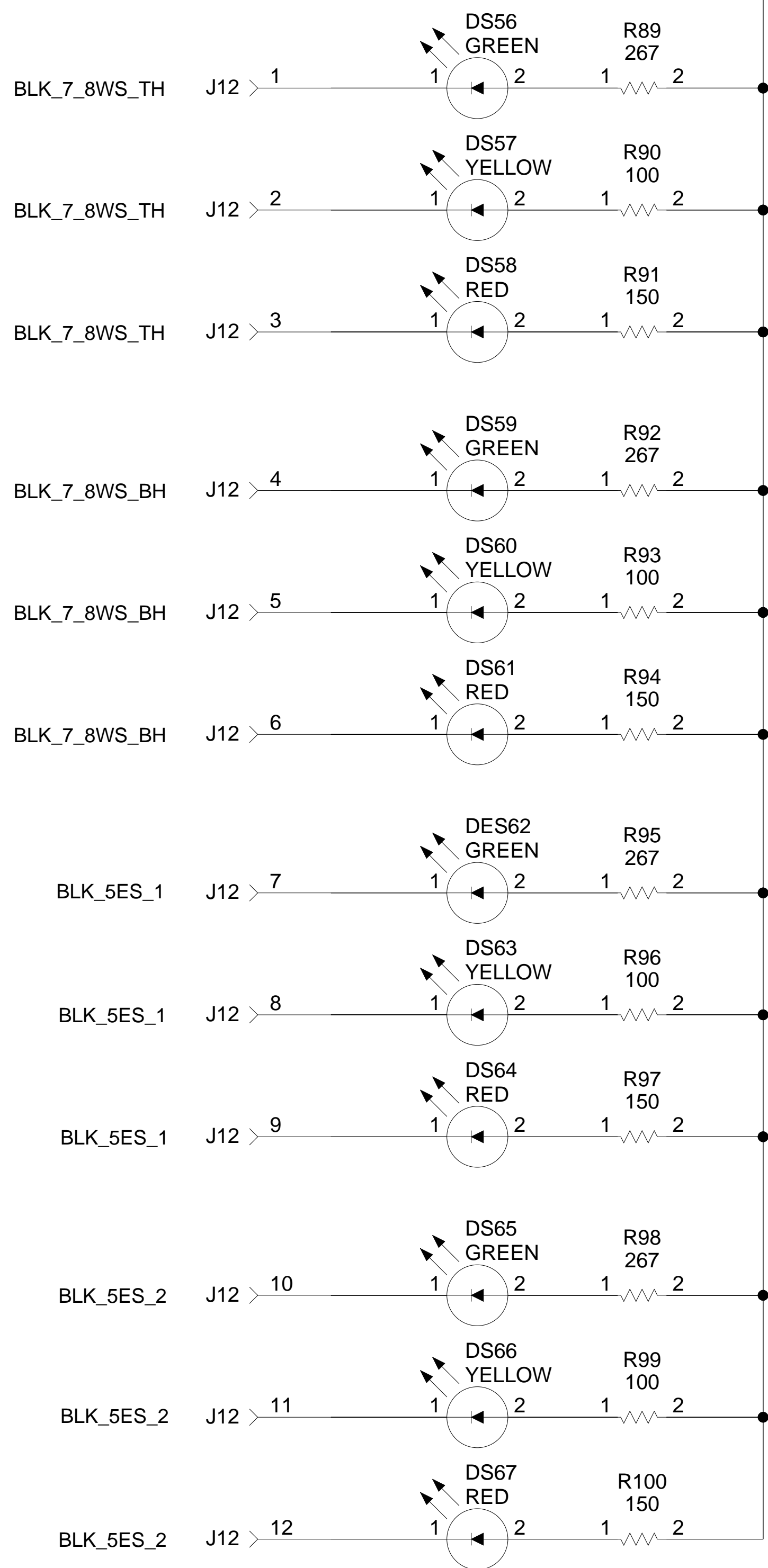
NOTE: 10K pull ups are on SMINI card



CARD A0 - INPUTS

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+5_VDC_-_RED10,12,13,14,3,4,5,7,8,9

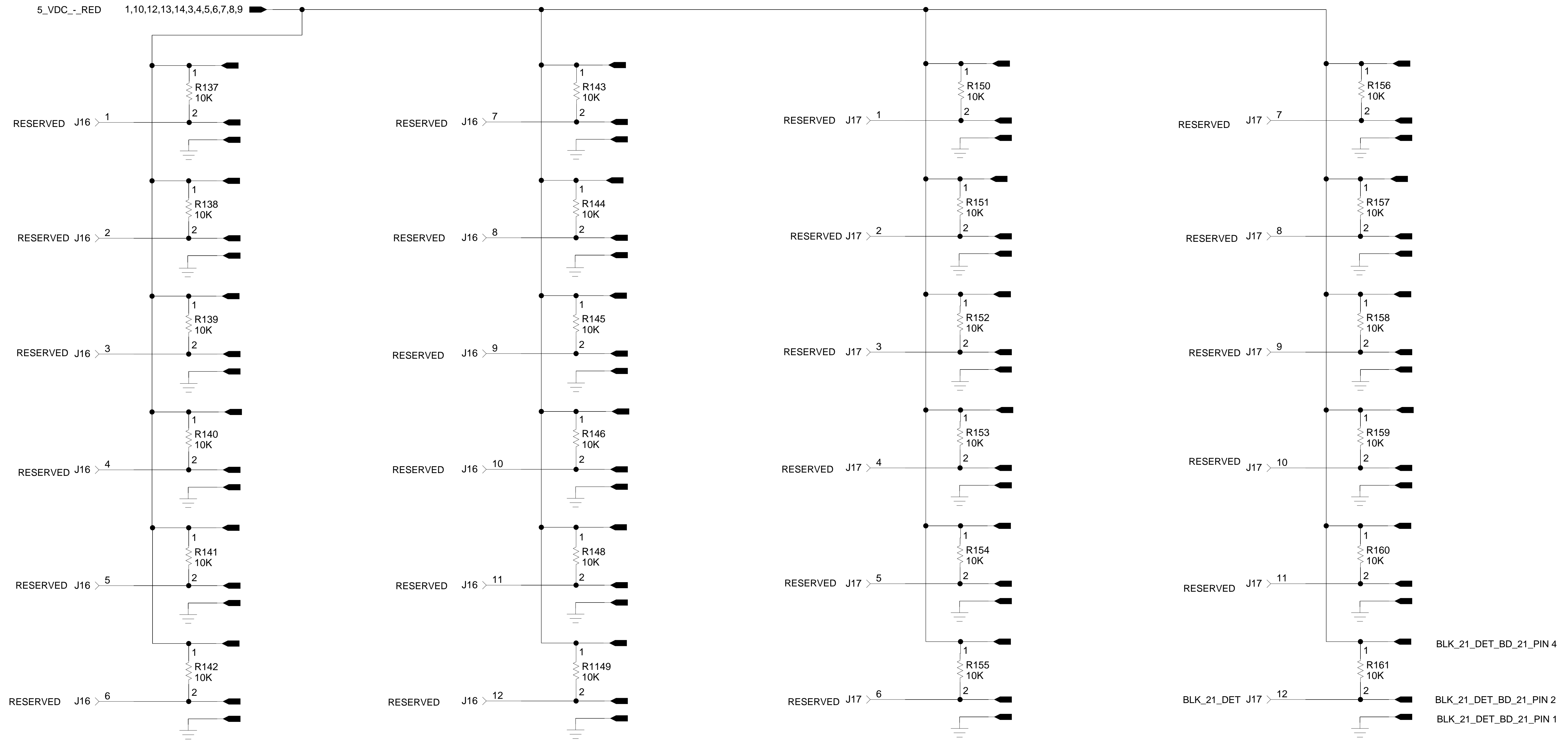


GROUND_-_BLACK 1,10,12,13,17,2,4,5,7,8,9



CARD A1 - ASSOCIATED SIGNALS

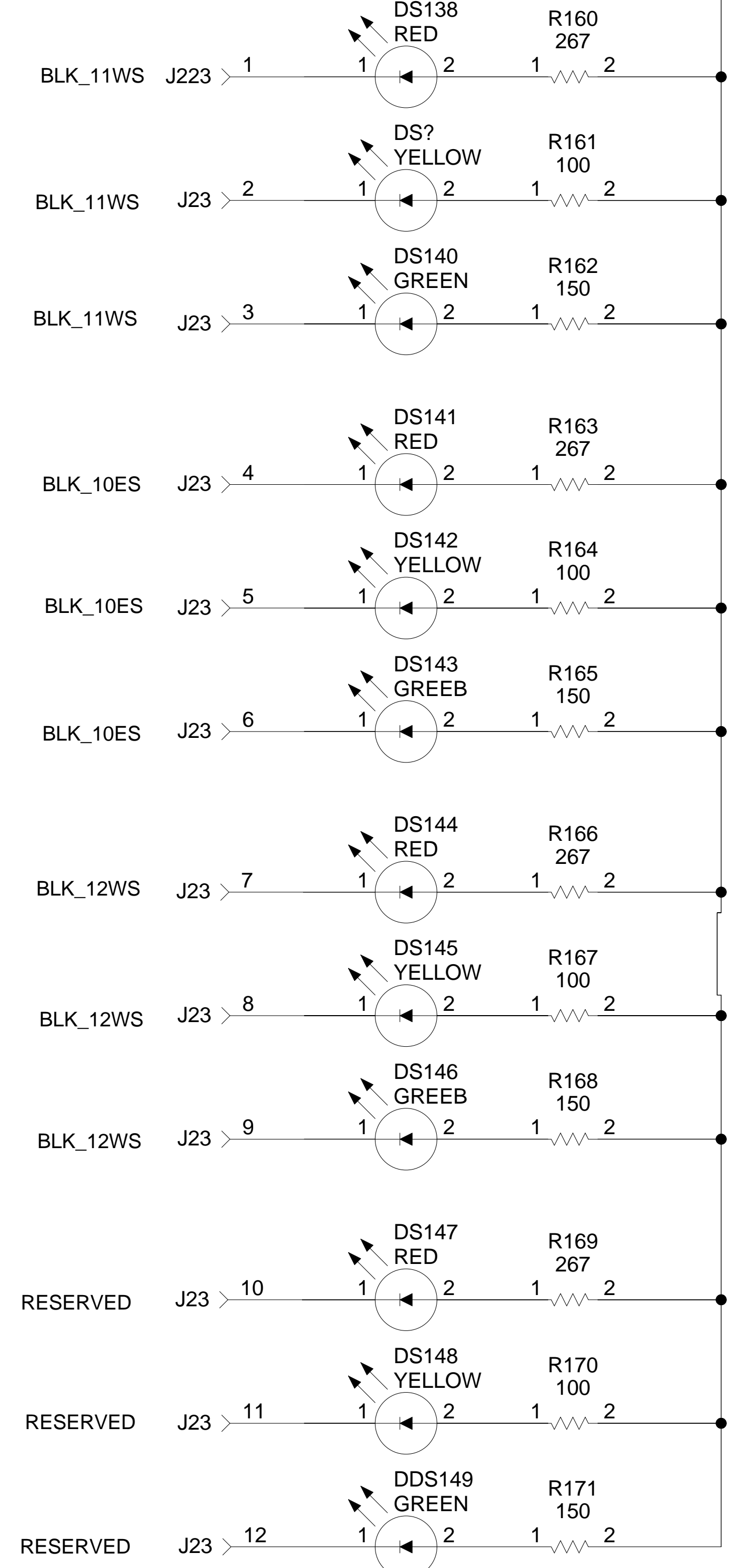
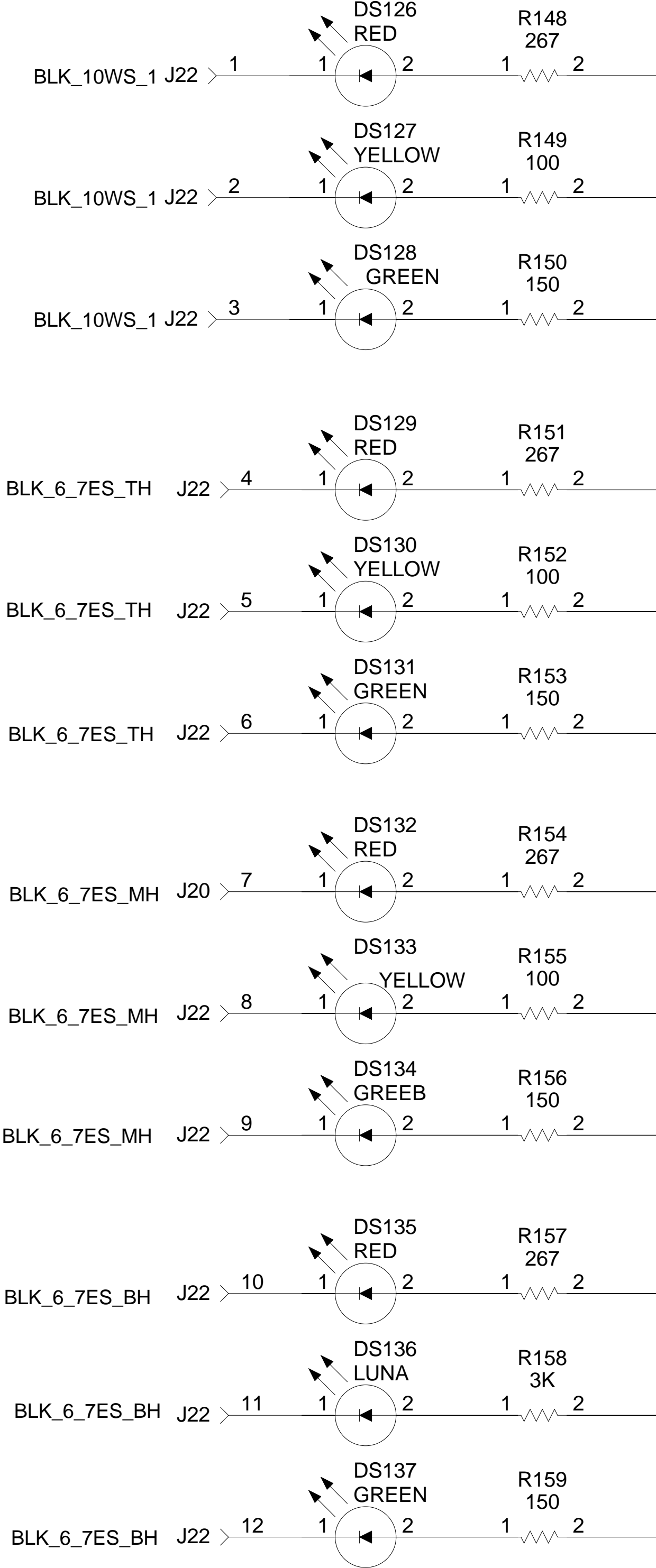
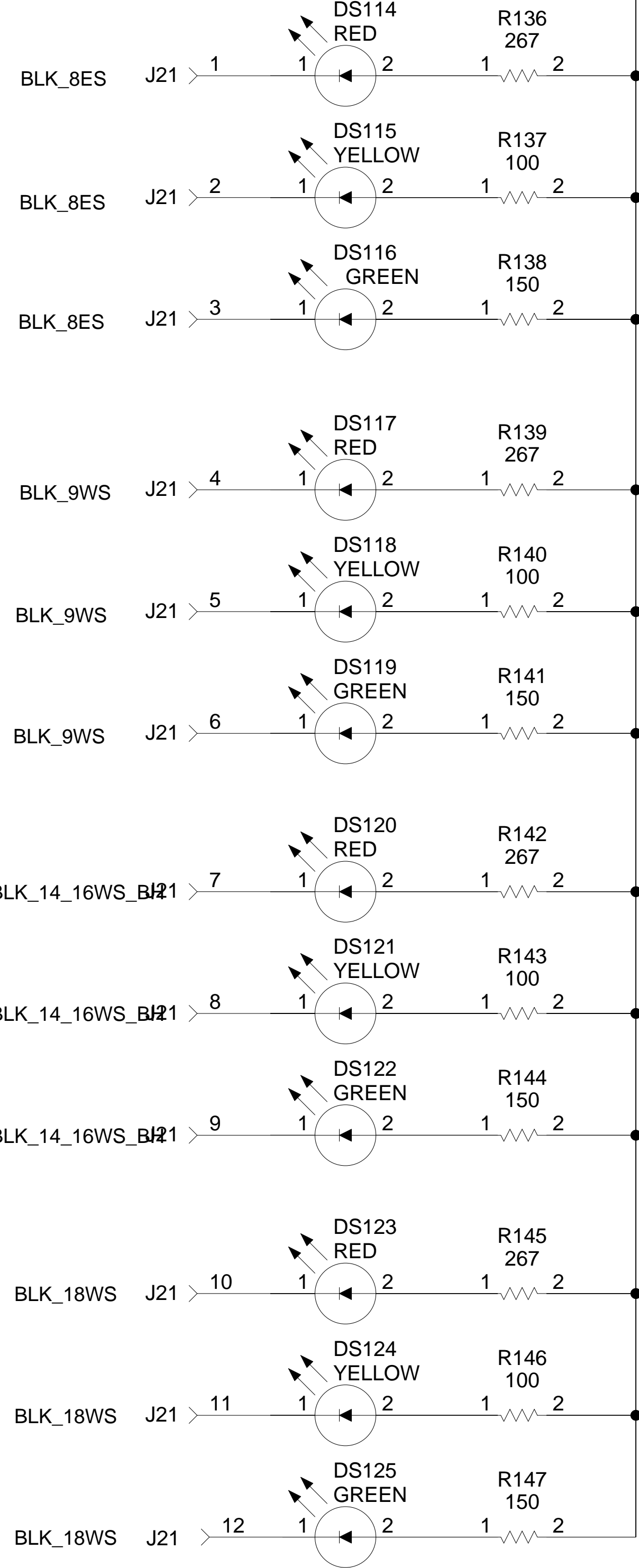
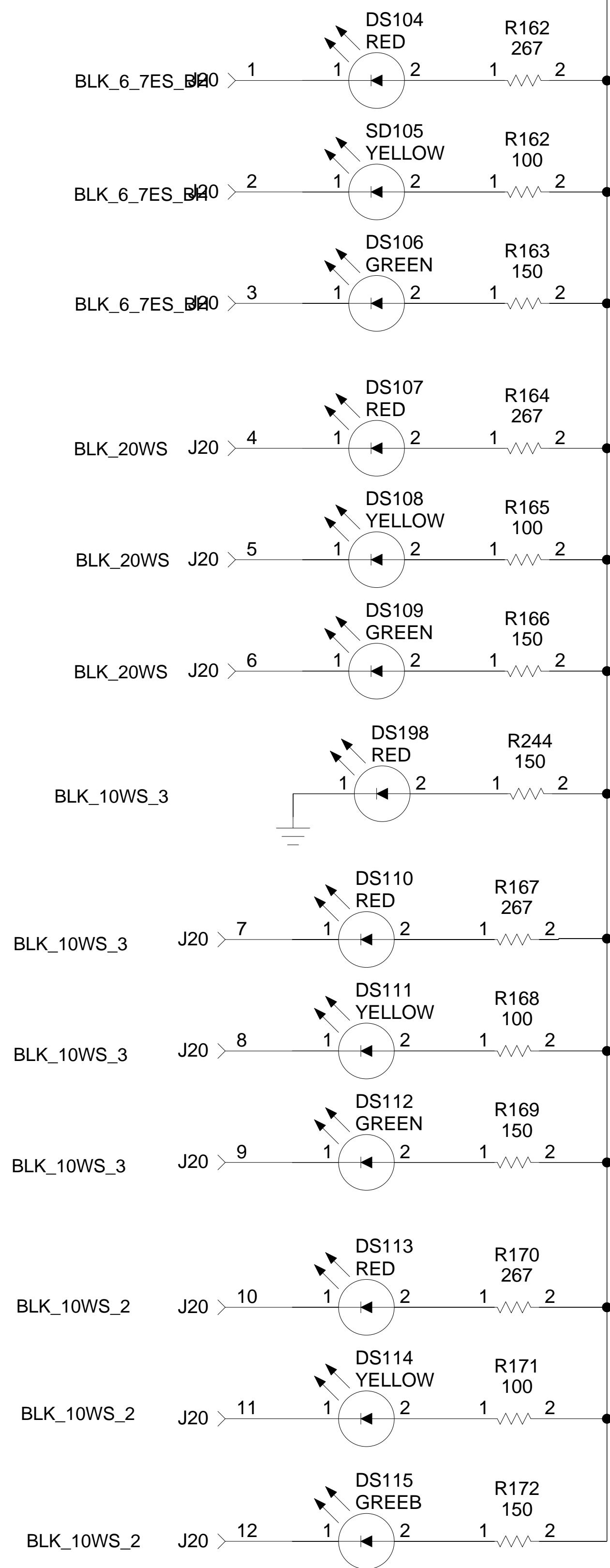
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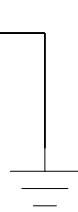
NOTE: 10K pull ups are on SMINI card

CARD A1 - INPUTS

+5_VDC_- RED 1,10,12,13,14,3,4,5,6,7,9

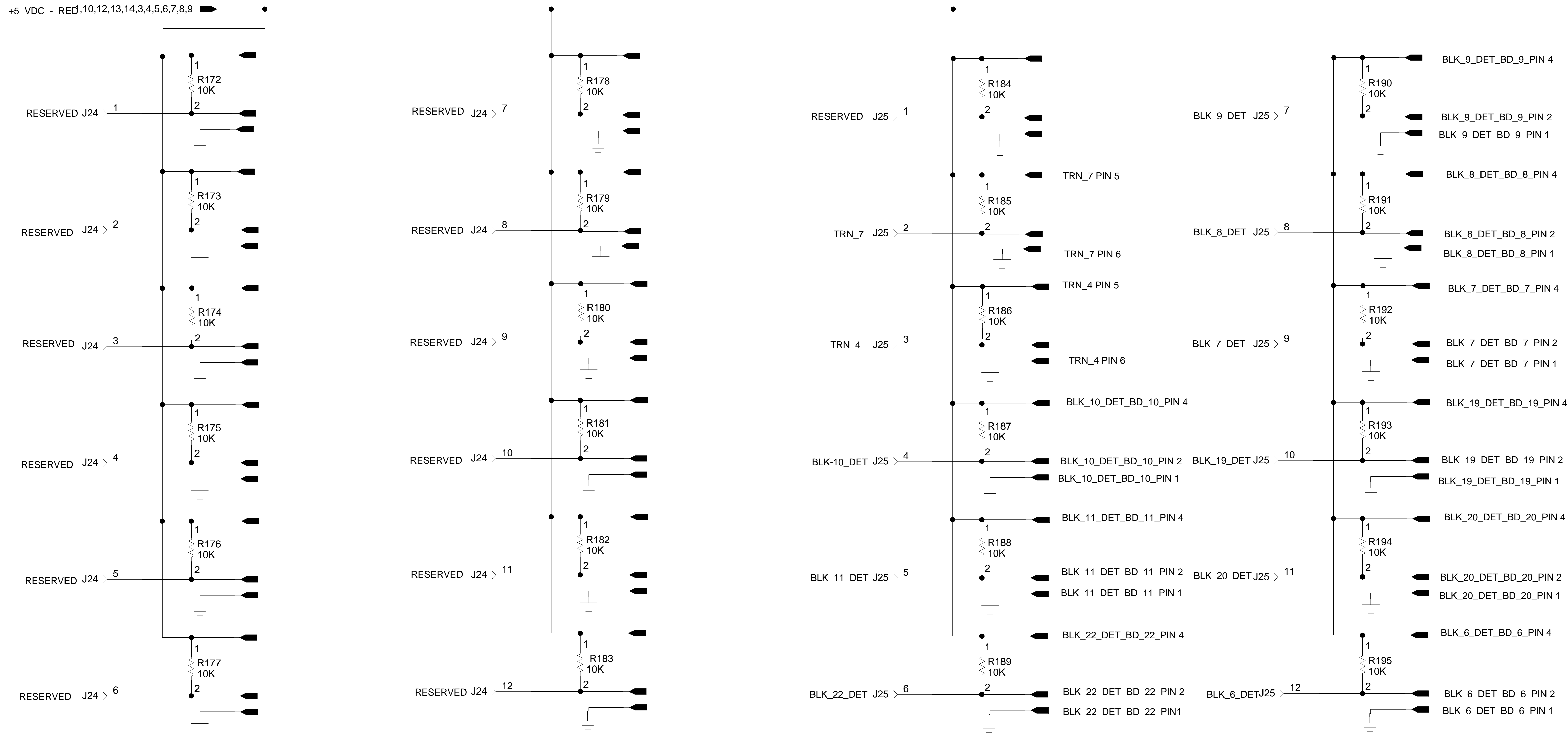


GROUND_- BLACK 10,12,13,17,2,4,5,6,7,9

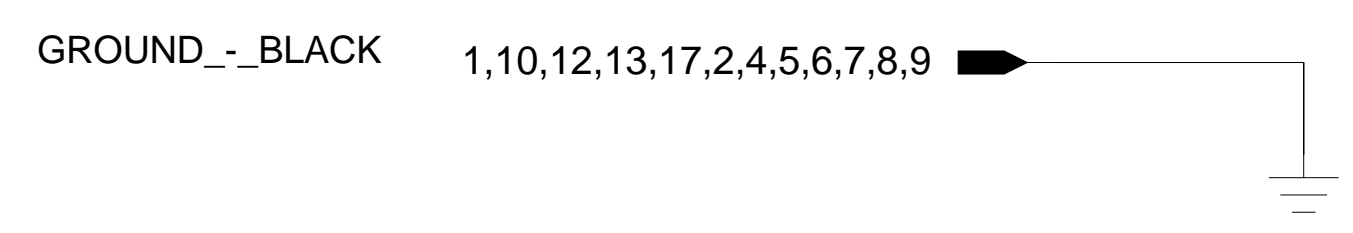


CARD A2 - ASSOCIATED SIGNALS

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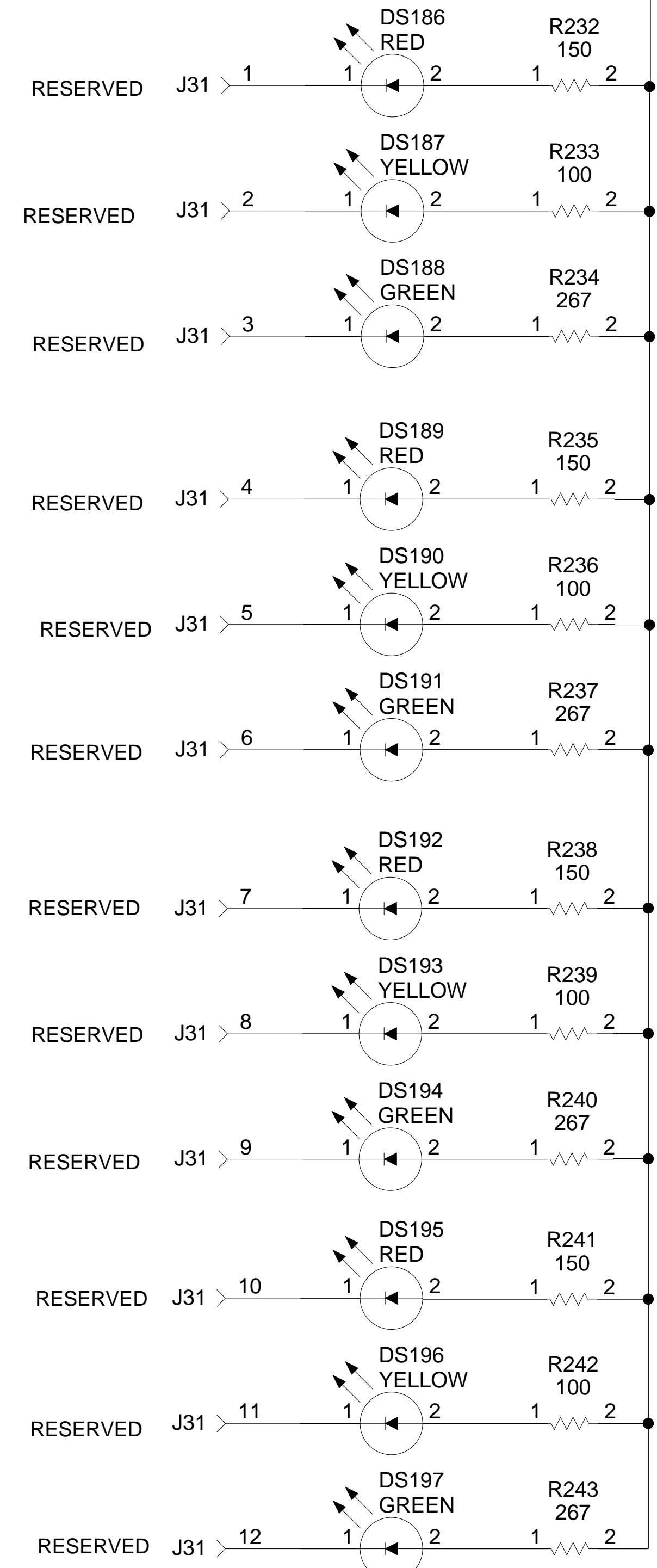
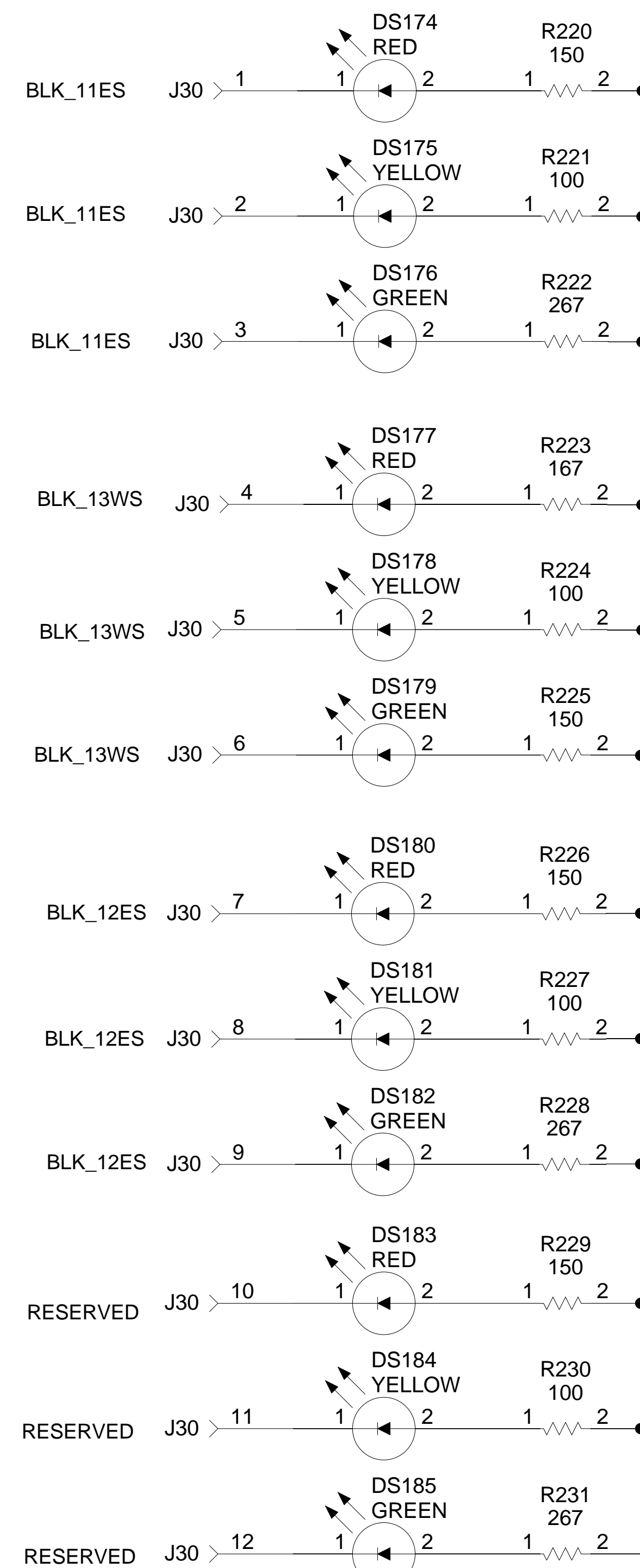
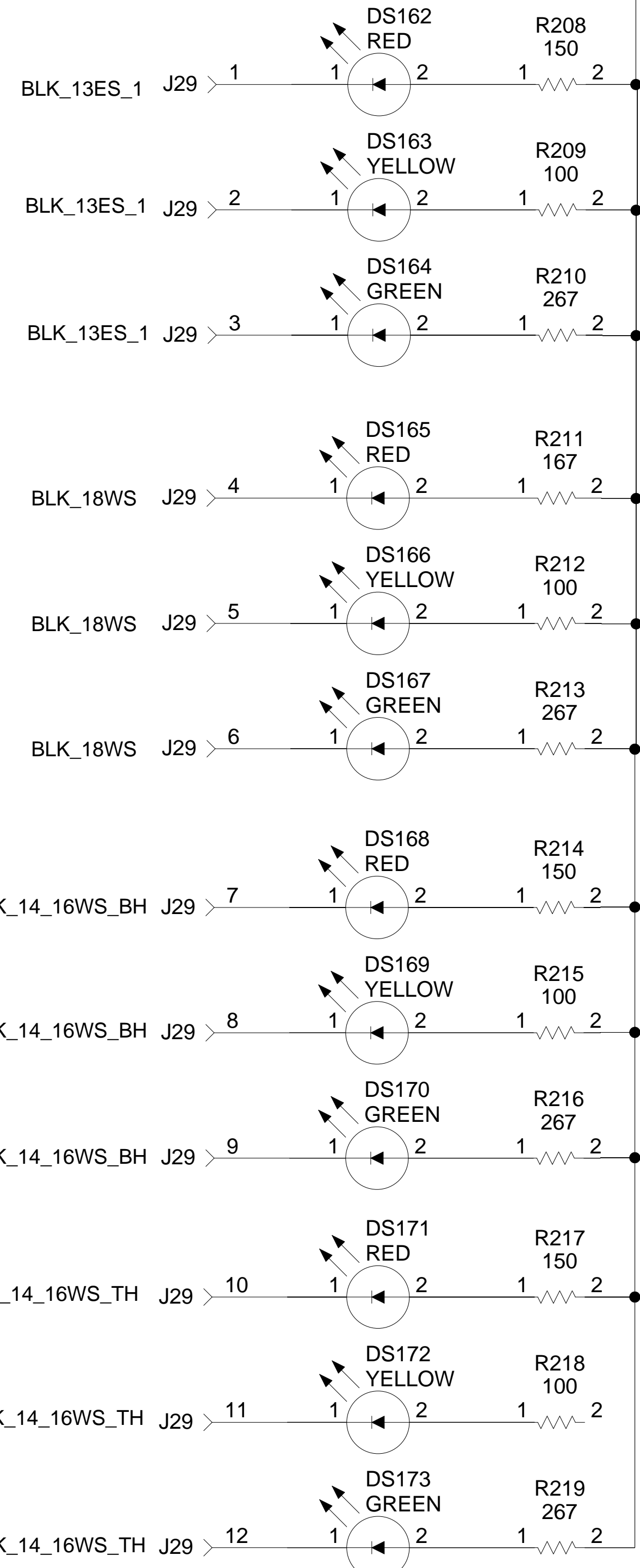
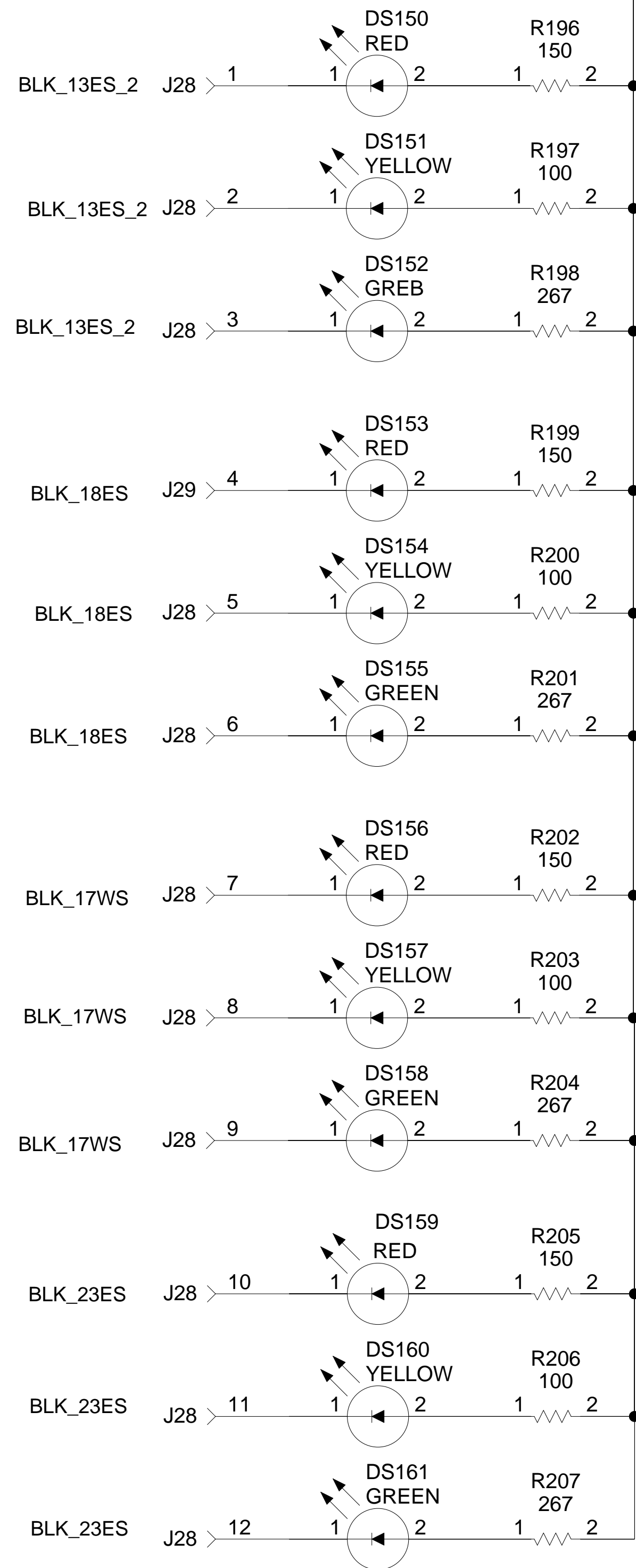
NOTE: 10K pull ups are on SMINI card



CARD A2 - INPUTS

Copyright 2007 - 2016

+5VDC_- RED 0,12,13,14,3,4,5,6,7,8,9

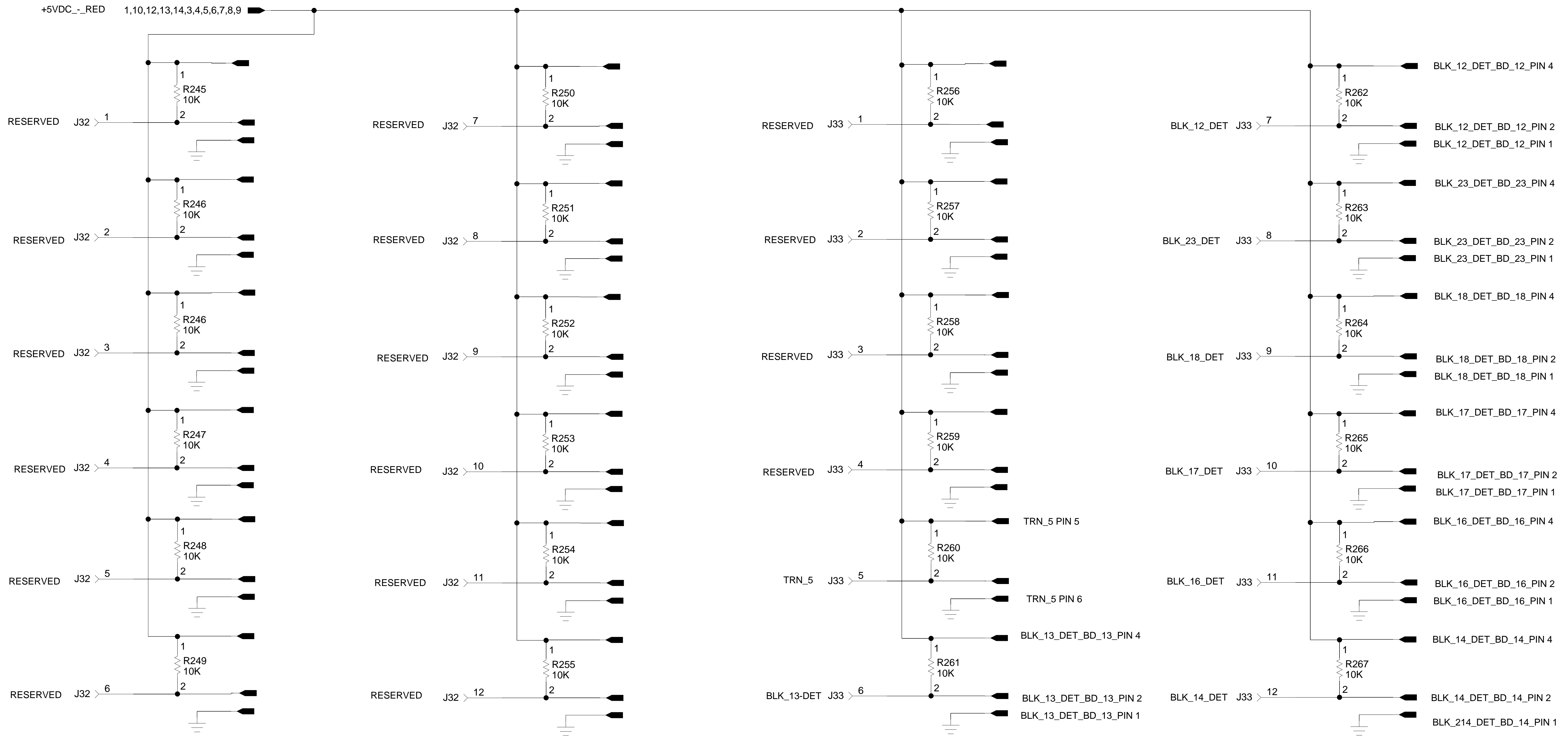


GROUND_- BLACK 1,10,12,13,17,2,4,5,6,7,8,9

NOTE: 10K pull ups are on SMINI card

CARD A3 - ASSOCIATED SIGNALS

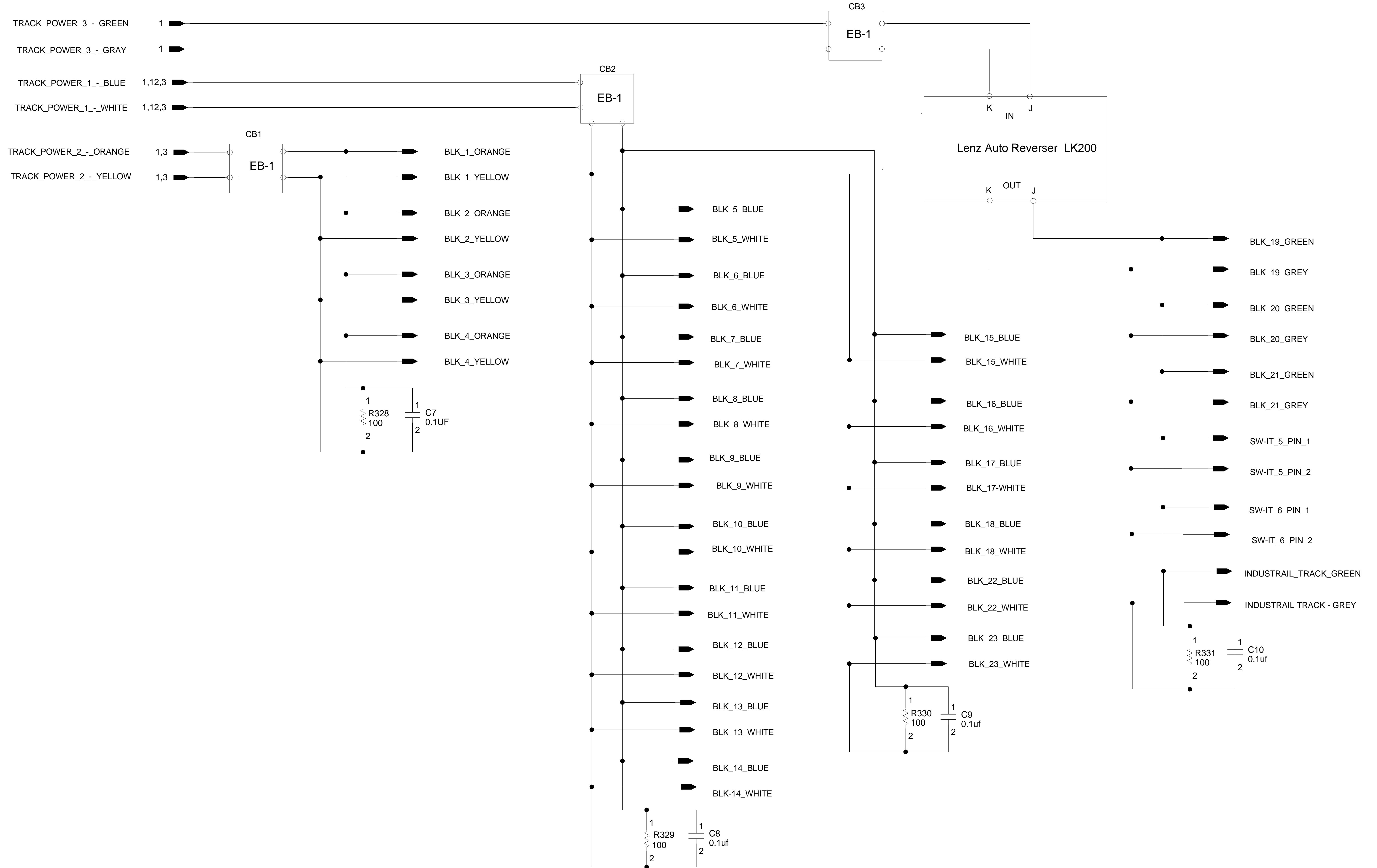
Copyright 2007 - 2016



NOTE: 10K pull ups are on SMINI card

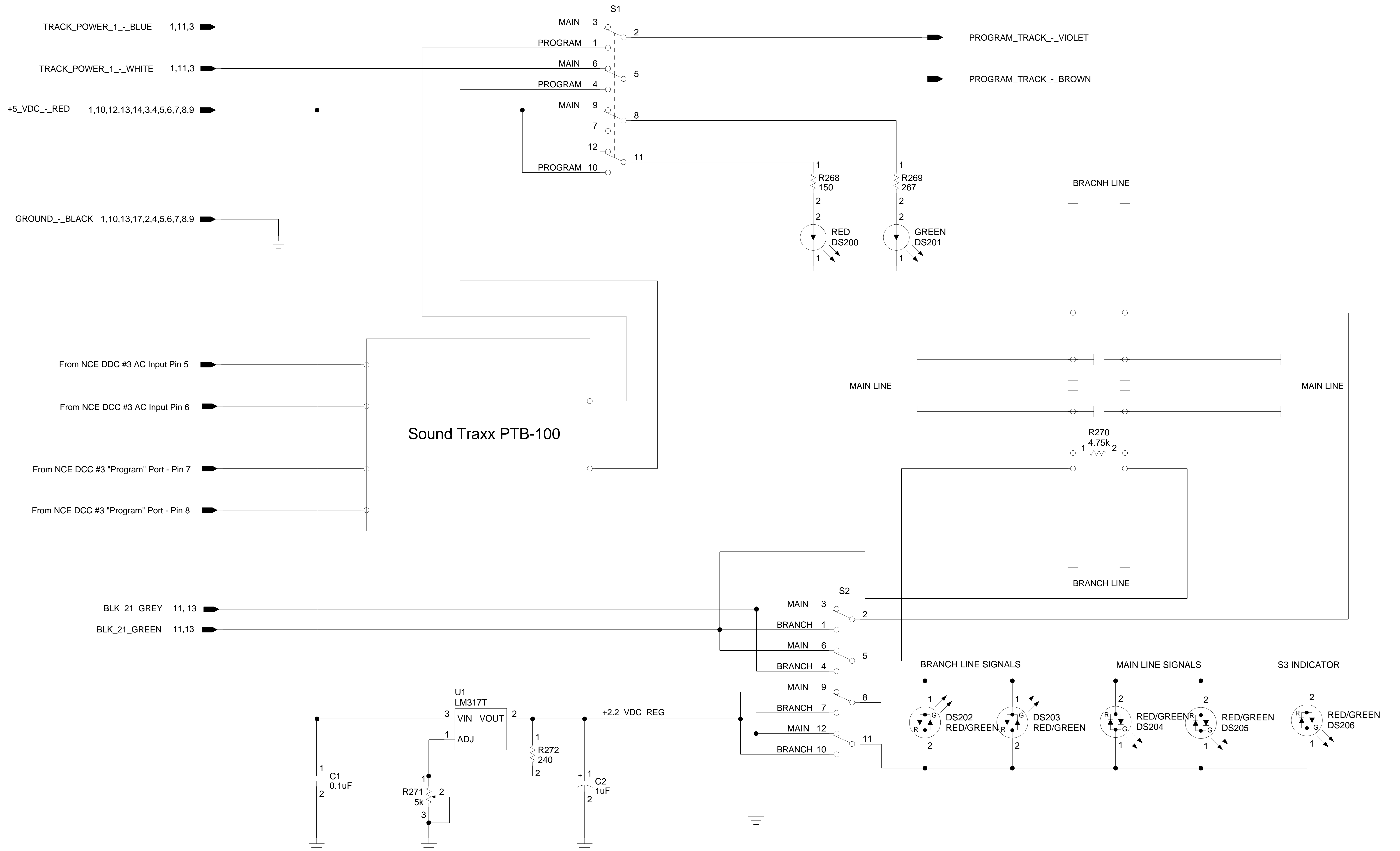
CARD A3 - INPUTS

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TRACK BLOCK WIRING

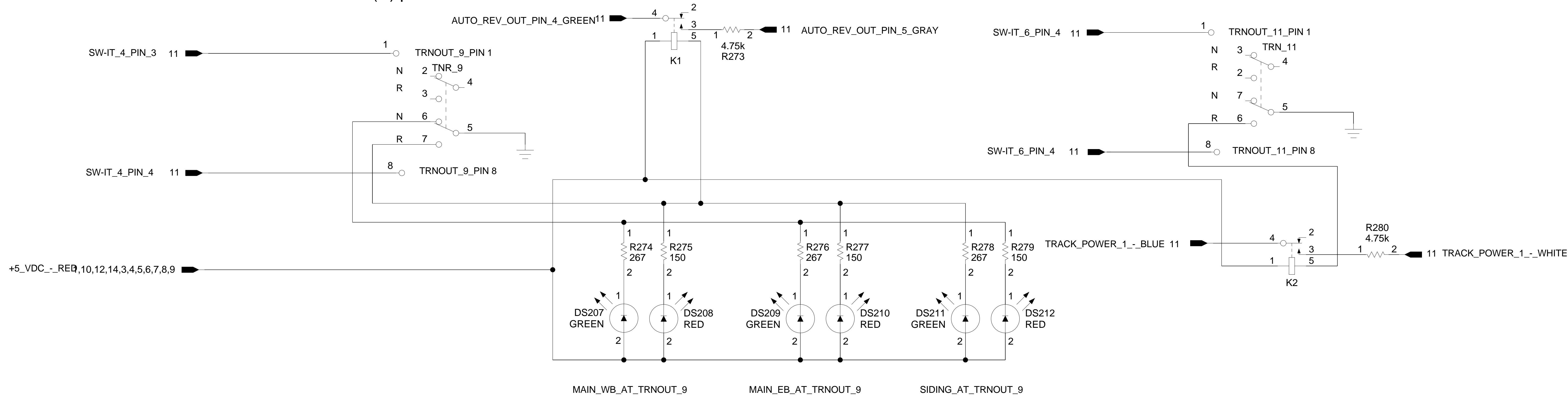
Copyright 2007 - 2015



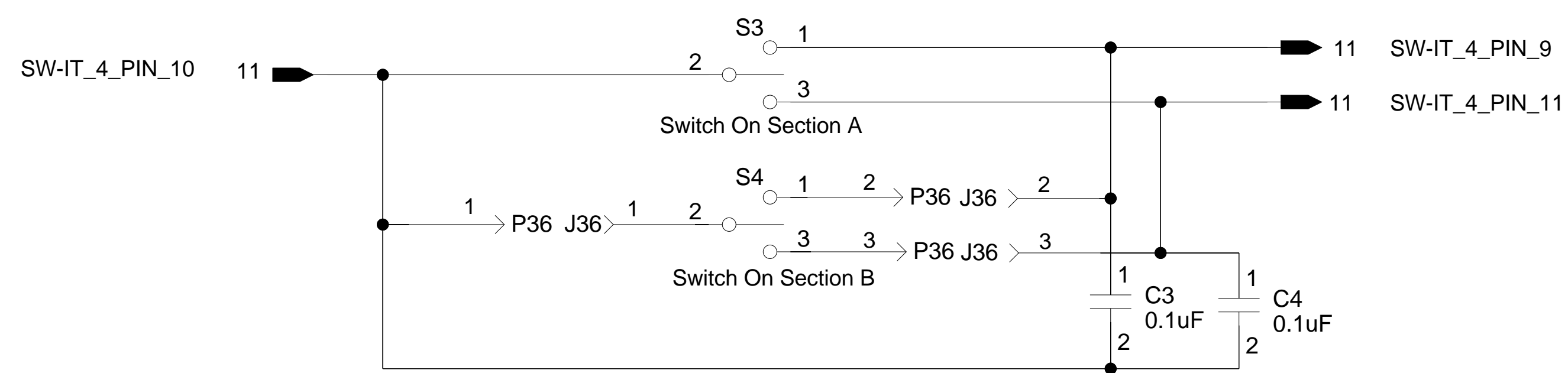
PROGRAM TRACK - +2.2 VDC REGULATOR - DIAMOND

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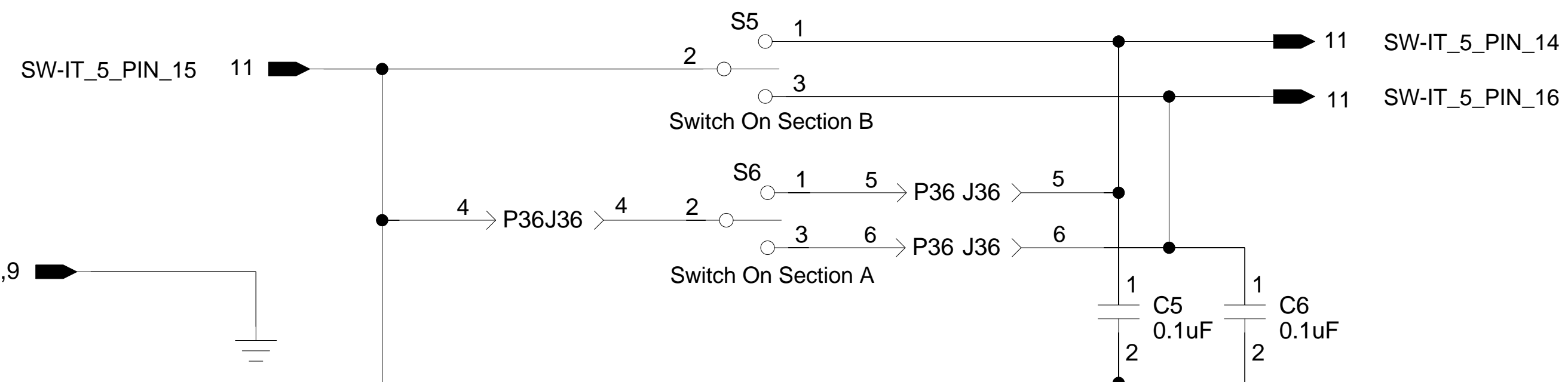
NOTE: Turnouts drawn in the NORMAL (N) position.



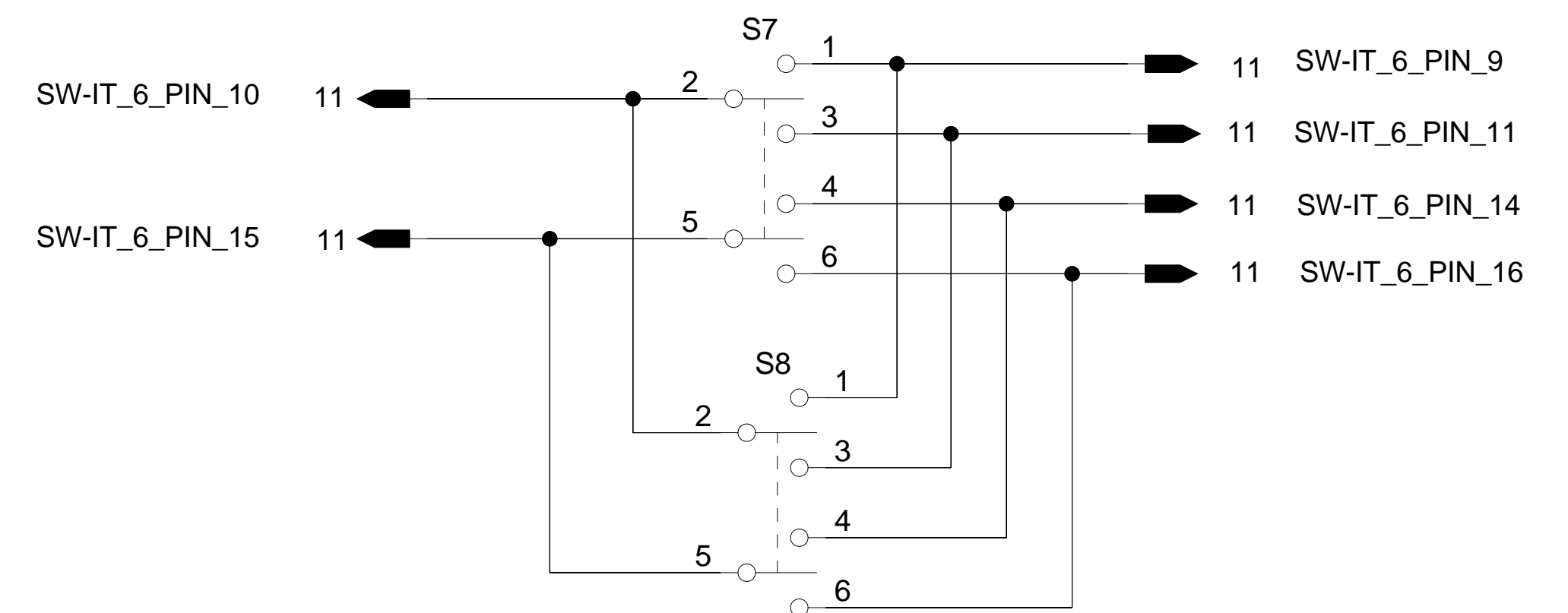
Turnout control for TRN_9



Turnout control for TRN_10

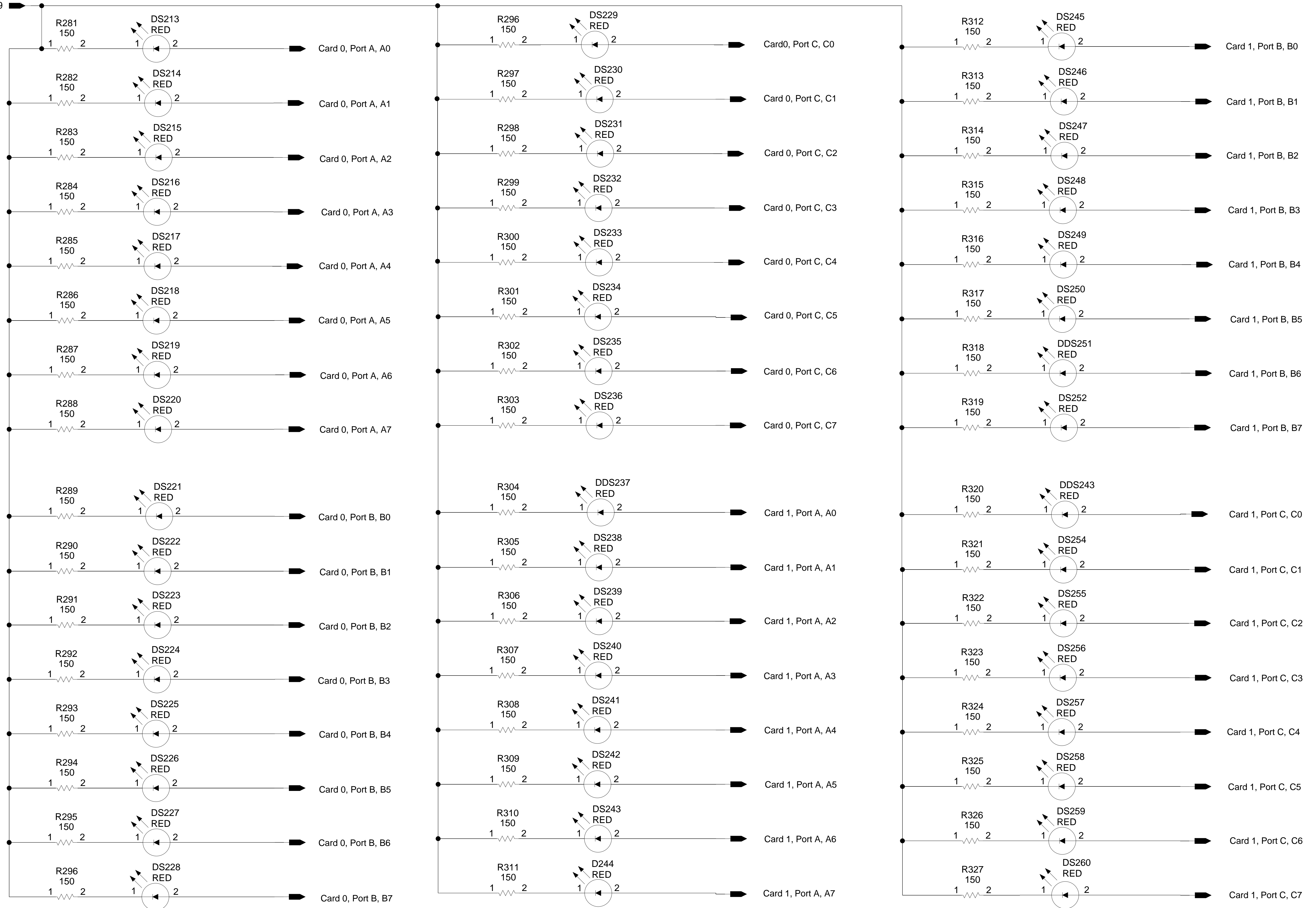


Turnout control for TRN_11 and TRN_12



TURN OUT WIRING FOR TURNOUTS 9, 10, 11, AND 12

+5_VDC_- _RED 1,10,12,13,3,4,5,6,7,8,9



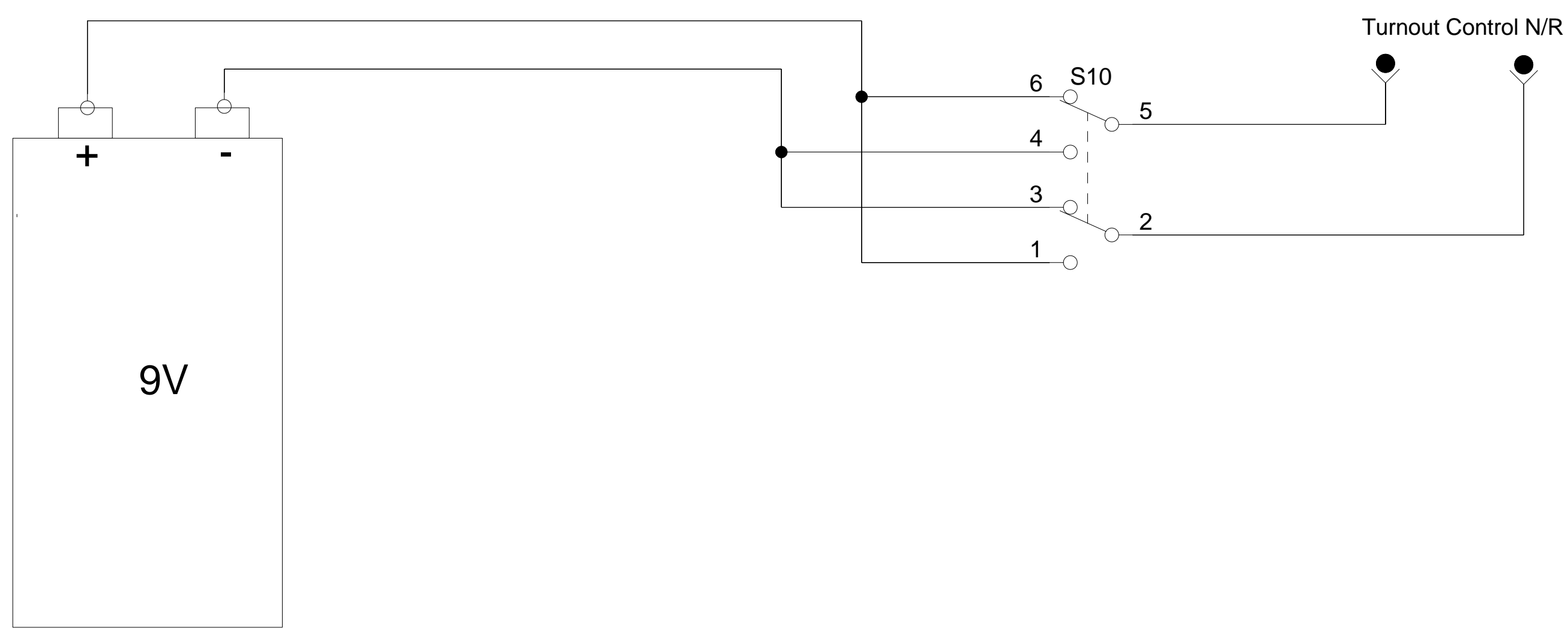
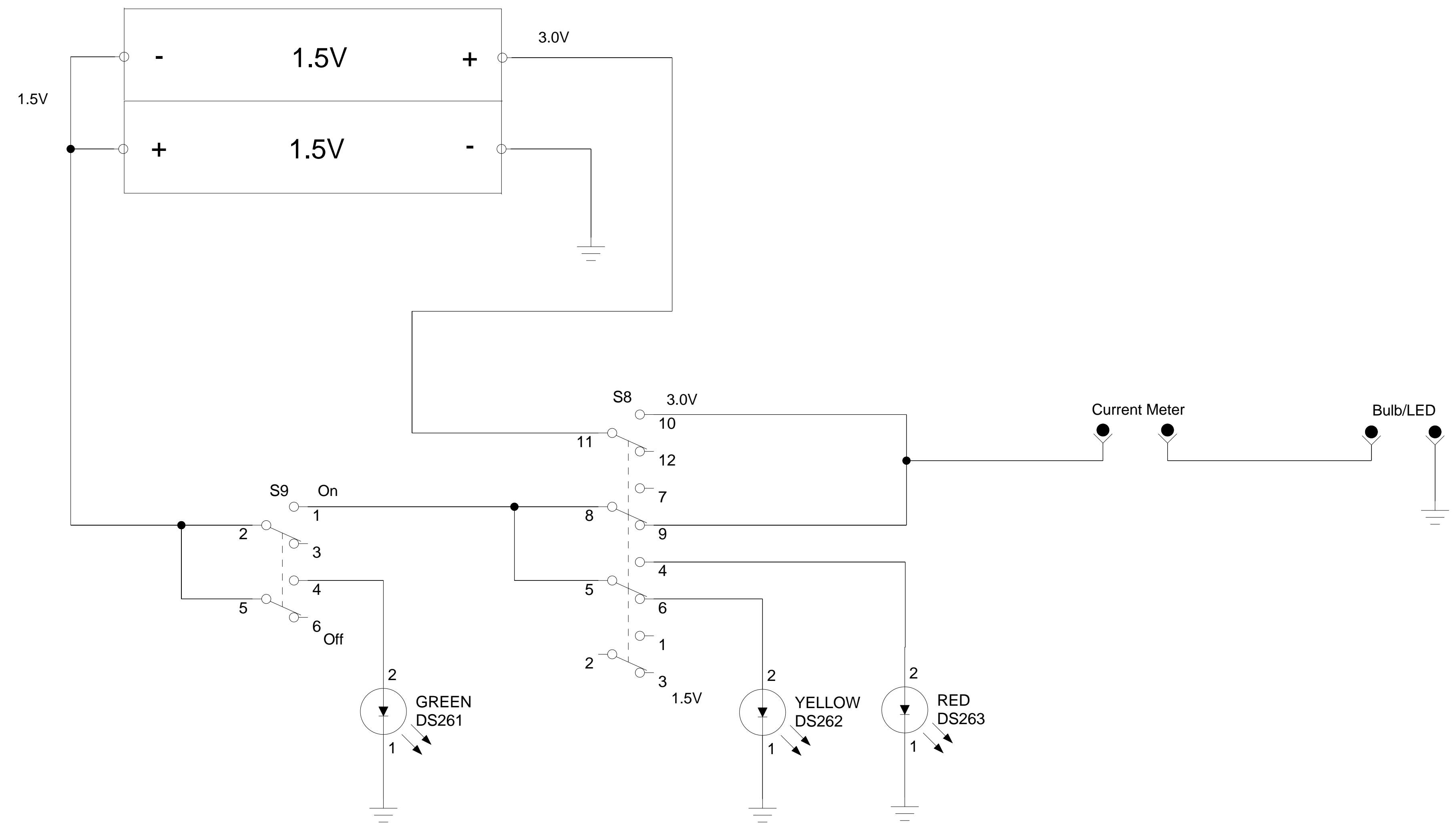
GROUND_- _BLACK 1,10,11,12,13,17,2,3,4,5,6,7,8,9

I/O OUTPUT TEST FIXTURE



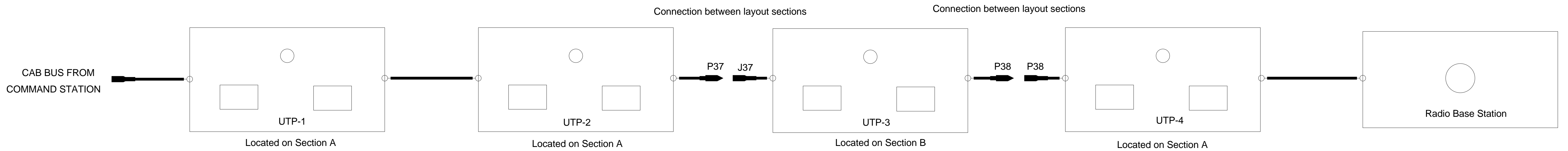
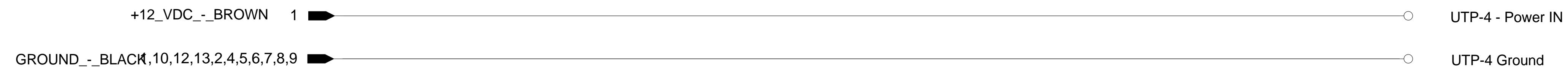
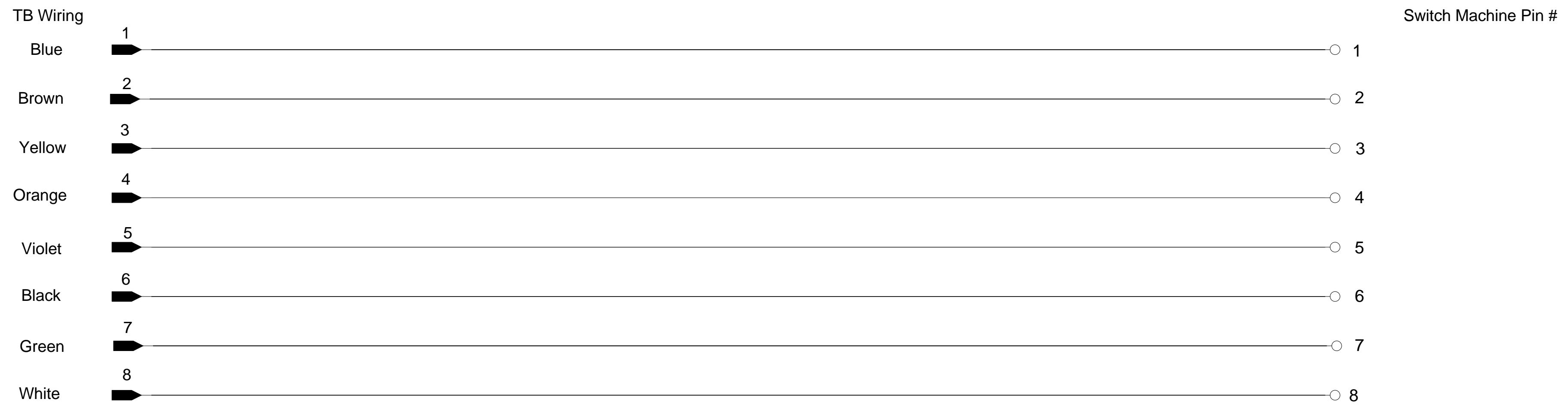
I/O LOOP BACK CABLE

Copyright 2007 - 2016



Bulb/Turnout Tester

Copyright 2007 - 2016



Switch Machine to Terminal Board Wiring / UTP panel wiring

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