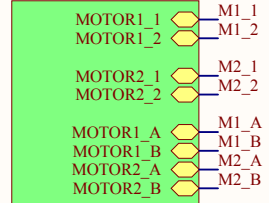


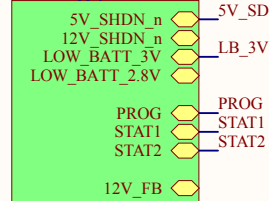
SS7

DC Motors.SchDoc



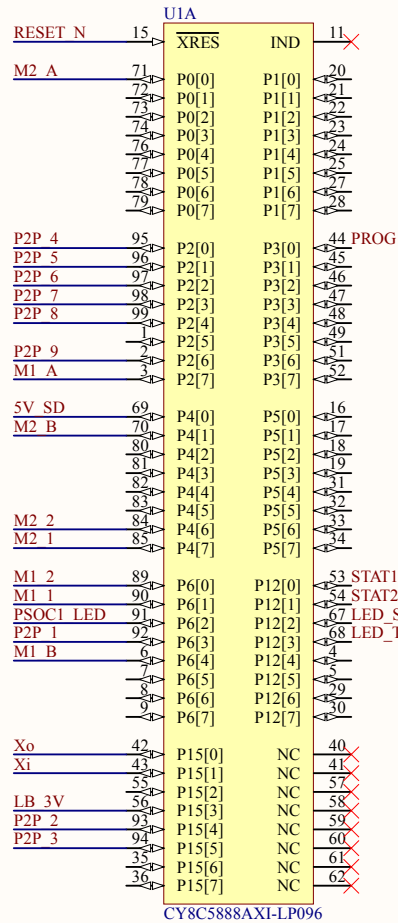
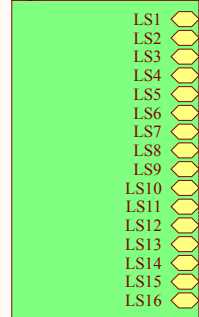
SS6

Power Supply.SchDoc

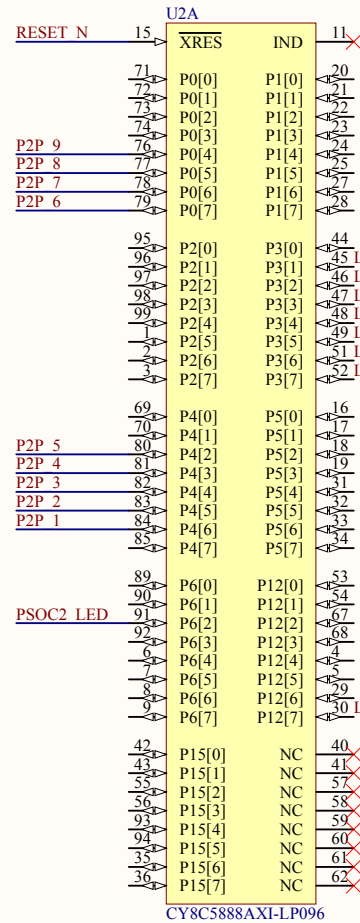


SS8

Light Sensors.SchDoc



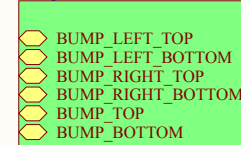
CY8C5888AXI-LP096



CY8C5888AXI-LP096

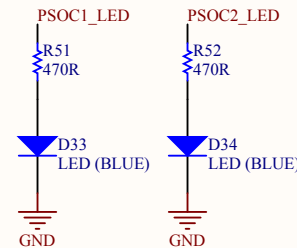
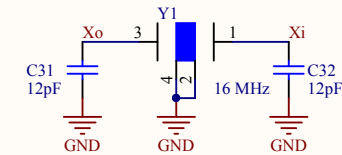
SS10

Bump Sensors.SchDoc



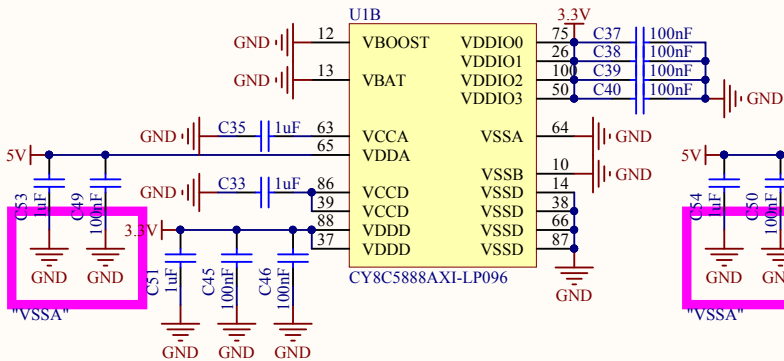
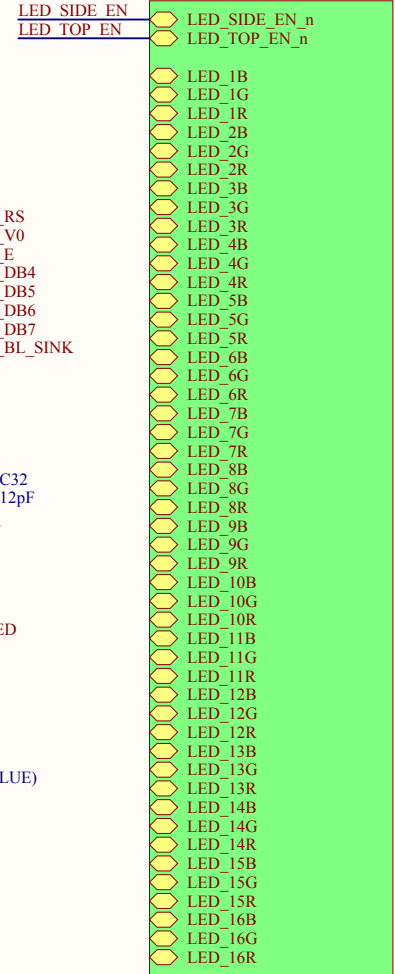
SS9

LCD.SchDoc

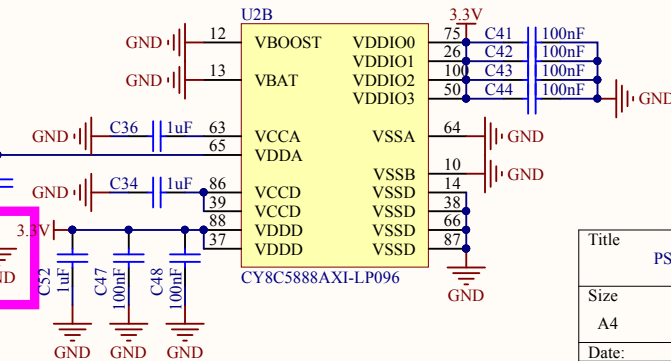


SS5

LEDs.SchDoc



CY8C5888AXI-LP096



CY8C5888AXI-LP096

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PSoC.SchDocSize
A4Number
1Revision
A

Date: 27/11/2014

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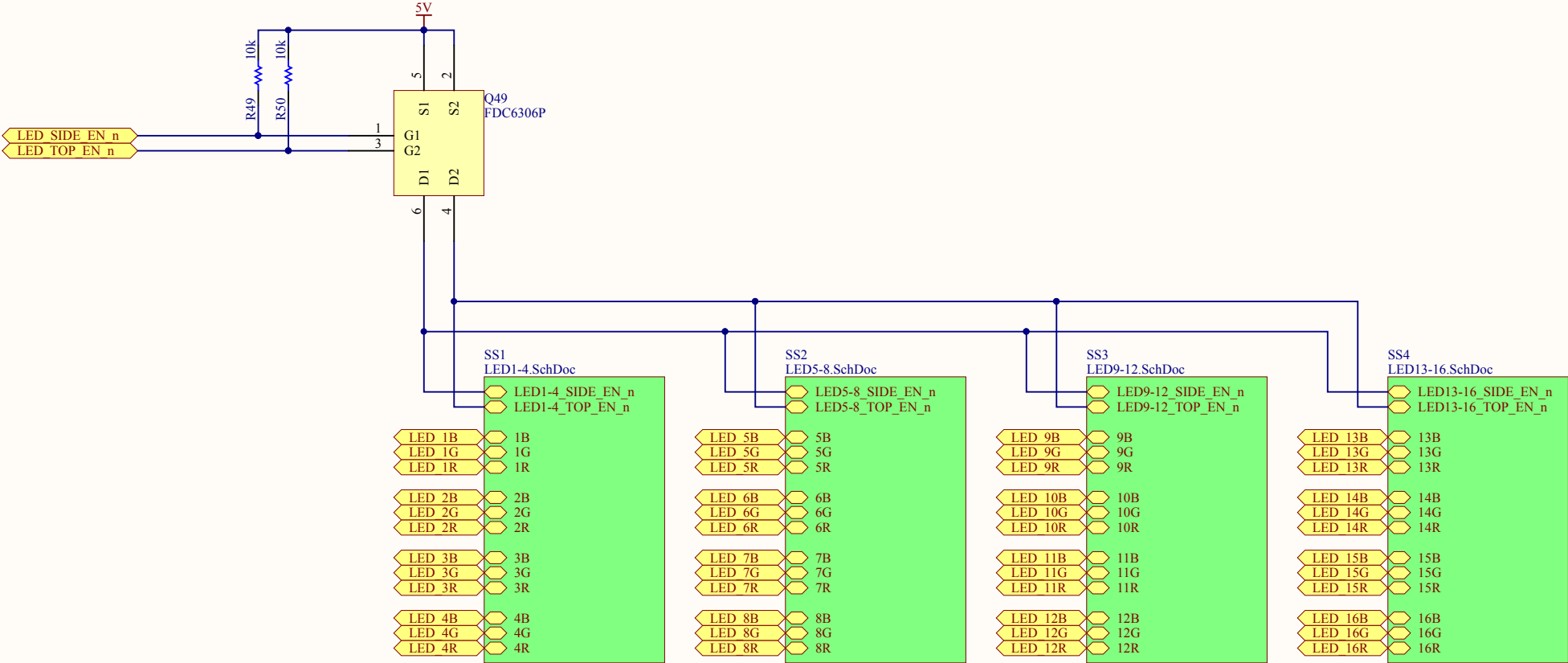
Drawn By: Nick D'Ademo

▲ All LEDs have been set to 20mA forward current for 5V via:
RED: R=150R
GREEN: R=91R
BLUE: R=91R

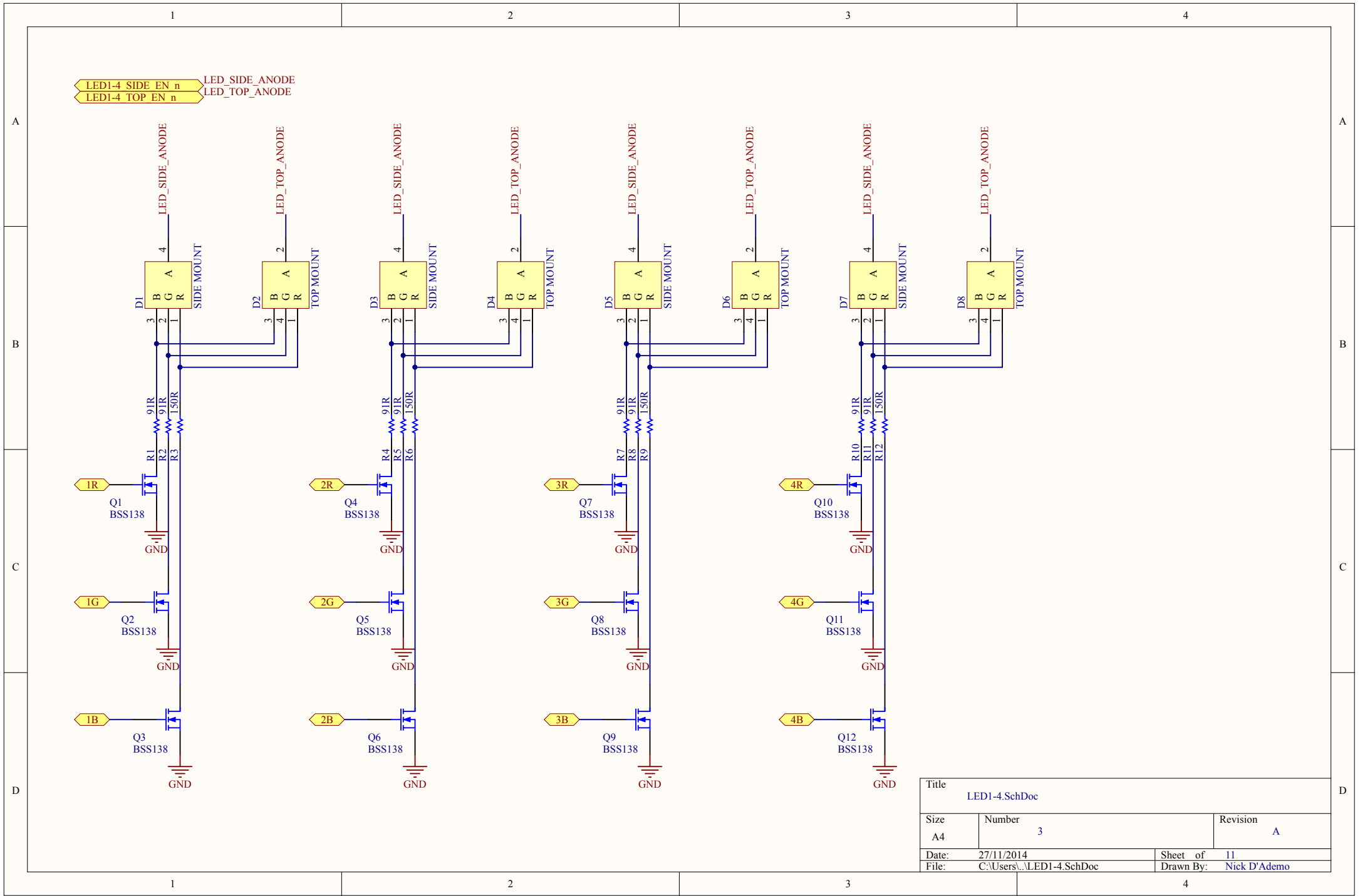
▲ SIDE LED:
Vf @ If=20mA (Min->Typ->Max):
RED: 1.8->2.0->2.4V
GREEN: 3.0->3.3->3.6V
BLUE: 3.0->3.3->3.6V

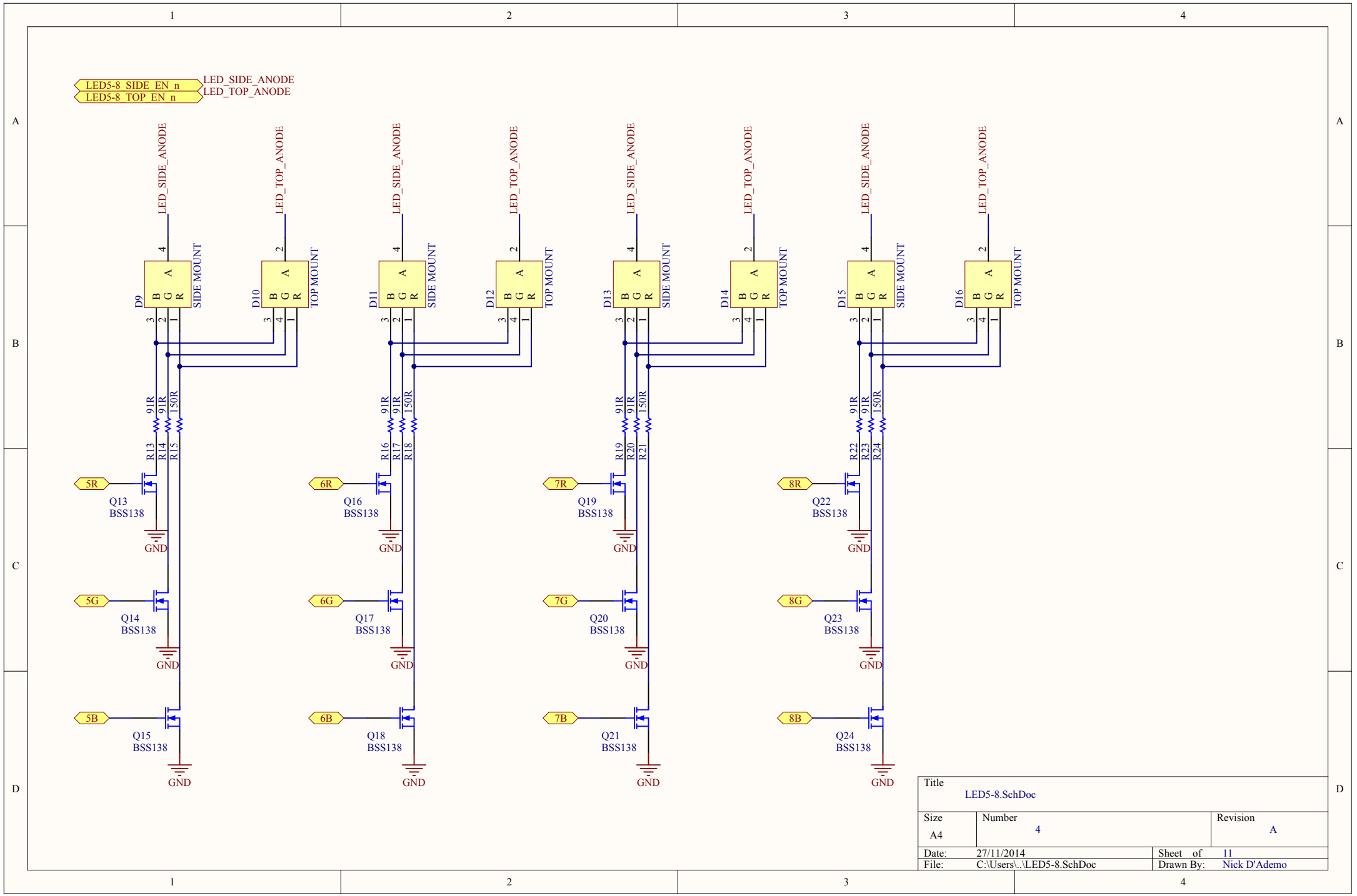
▲ TOP LED:
Vf @ If=20mA (Avg->Max):
RED: 2.0->2.6V
GREEN: 3.2->4.0V
BLUE: 3.2->4.0V

CLV1A-FKB-CJ1M1F1BB7R4S3: 675med Red, 1055med Green, 337med Blue
CLV1A-FKB-CK1N1G1BB7R4S3: 730med Red, 1150med Green, 365med Blue

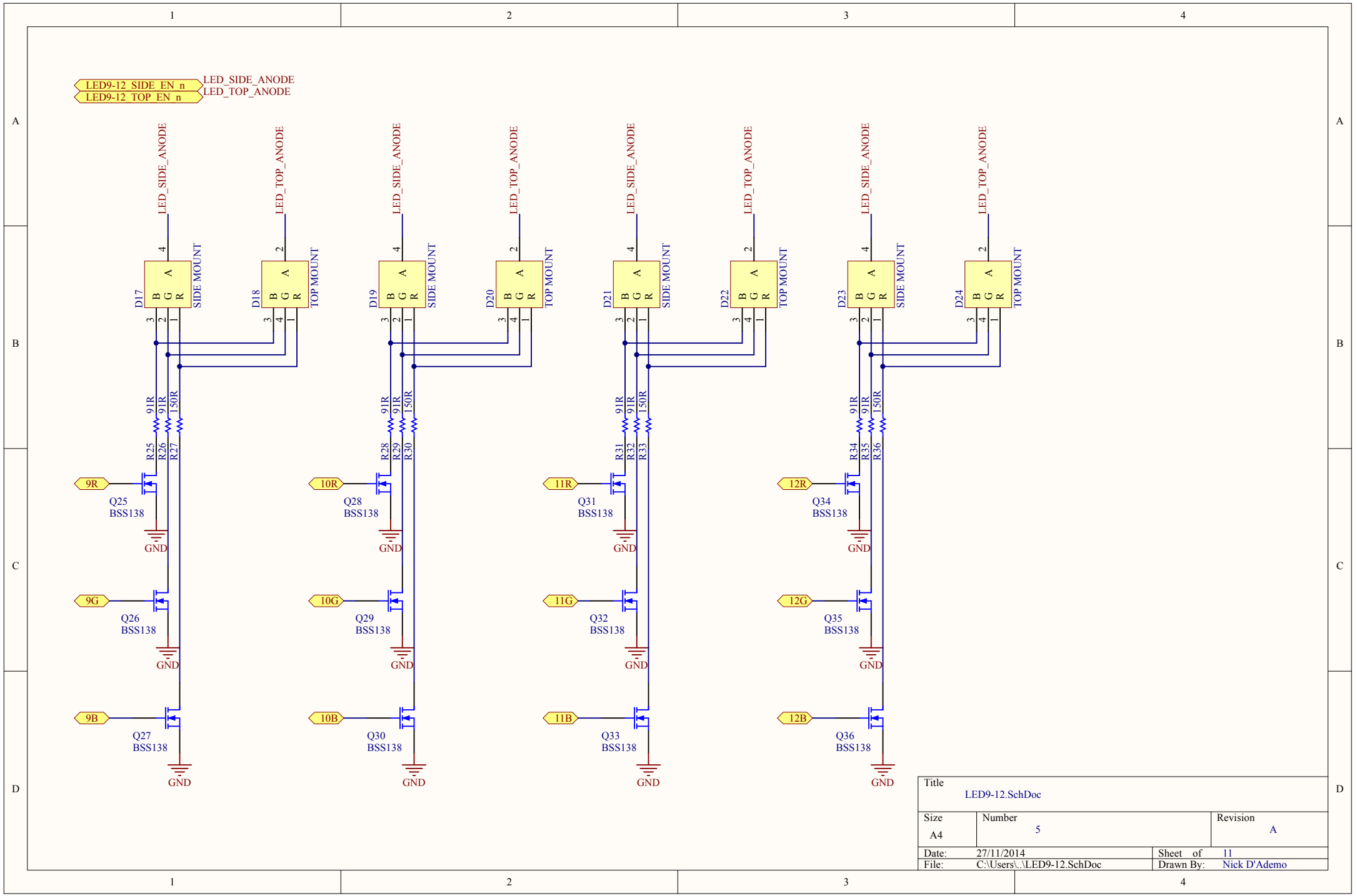


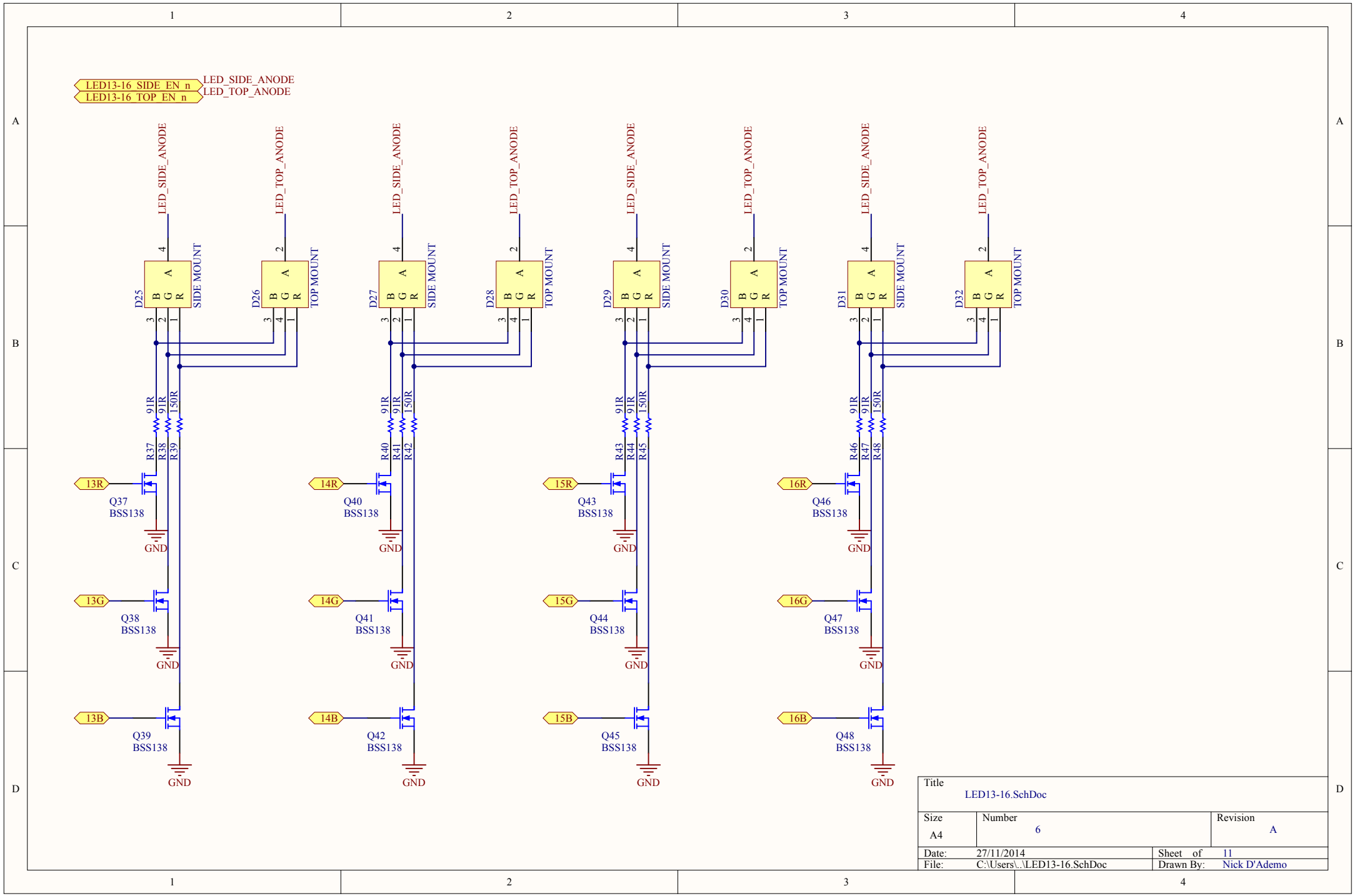
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A4	2	A	
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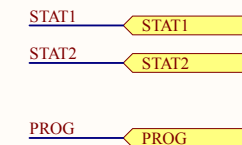
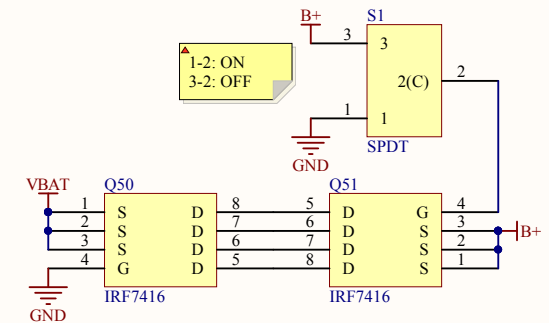
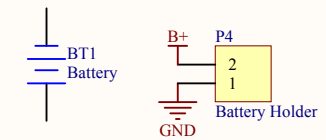
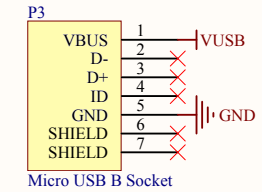
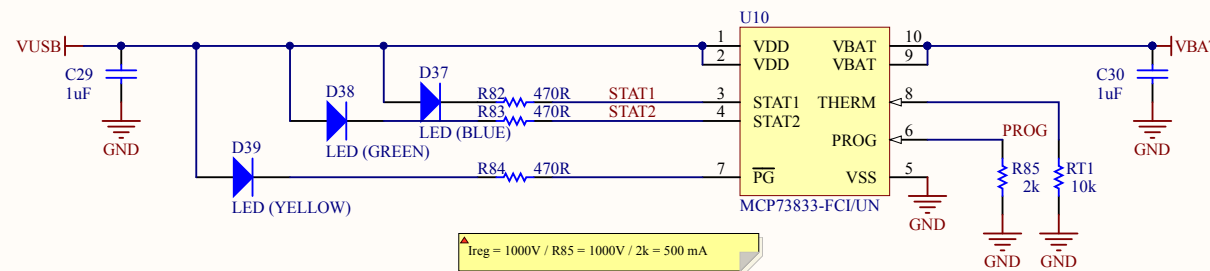
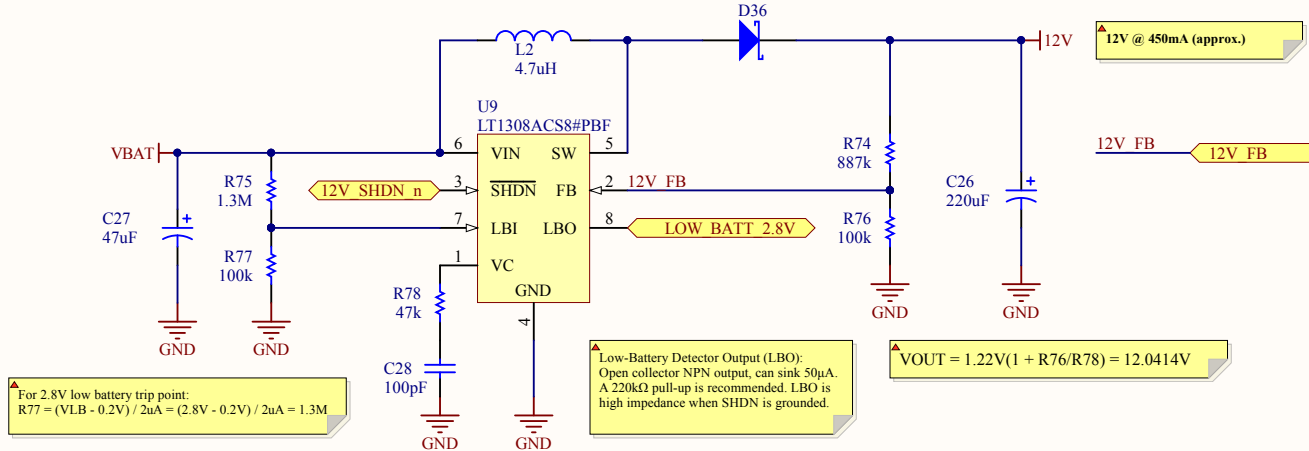
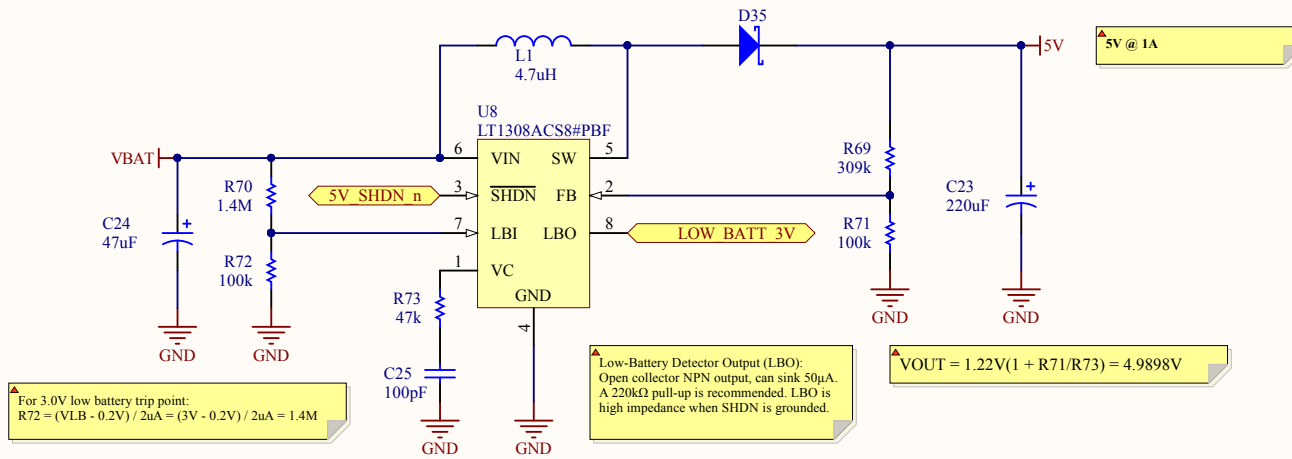


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Size A4	Number 6		Revision A
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File:	C:\Users\...\LED13-16.SchDoc		Drawn By: Nick D'Ademo



Title Power Supply.SchDoc			
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File:	C:\Users\...\Power Supply.SchDoc	Drawn By:	Nick D'Ademo

▲ AMS light sensors (www.ams.com) have the following pin-outs:
GND - 1
VDD - 2
OUT - 3

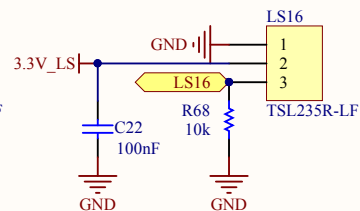
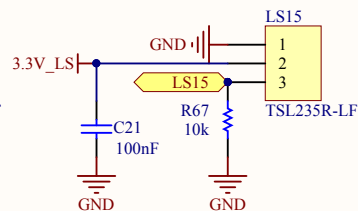
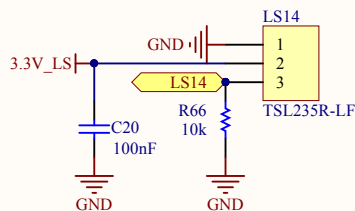
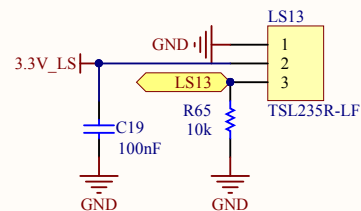
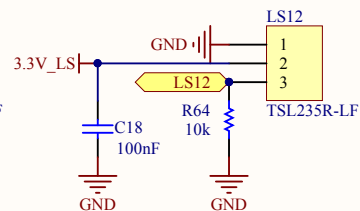
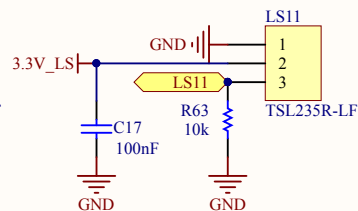
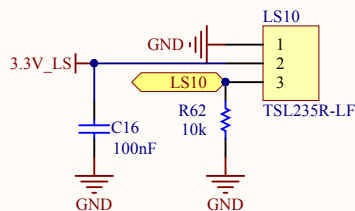
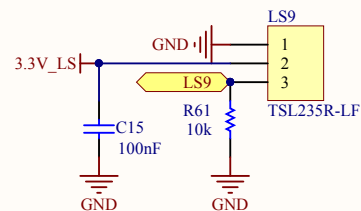
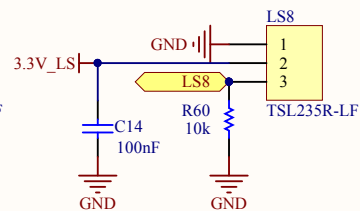
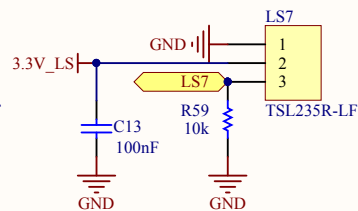
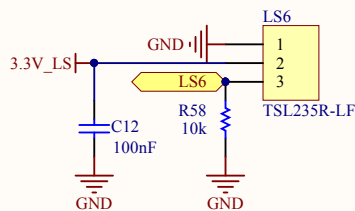
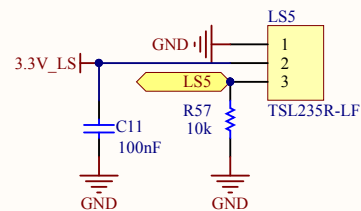
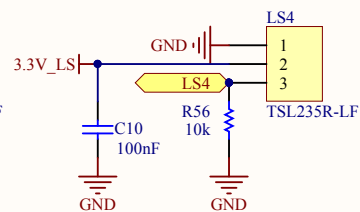
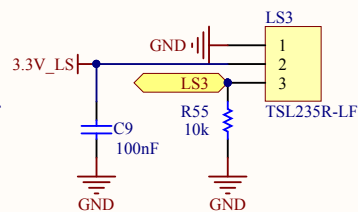
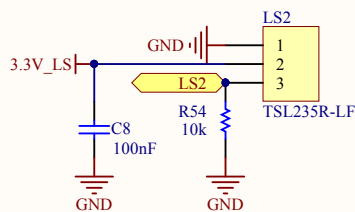
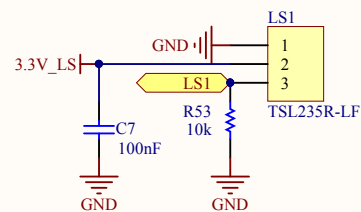
Light-to-Frequency parts:

TSL235
TSL237
TSL245 (IR light)

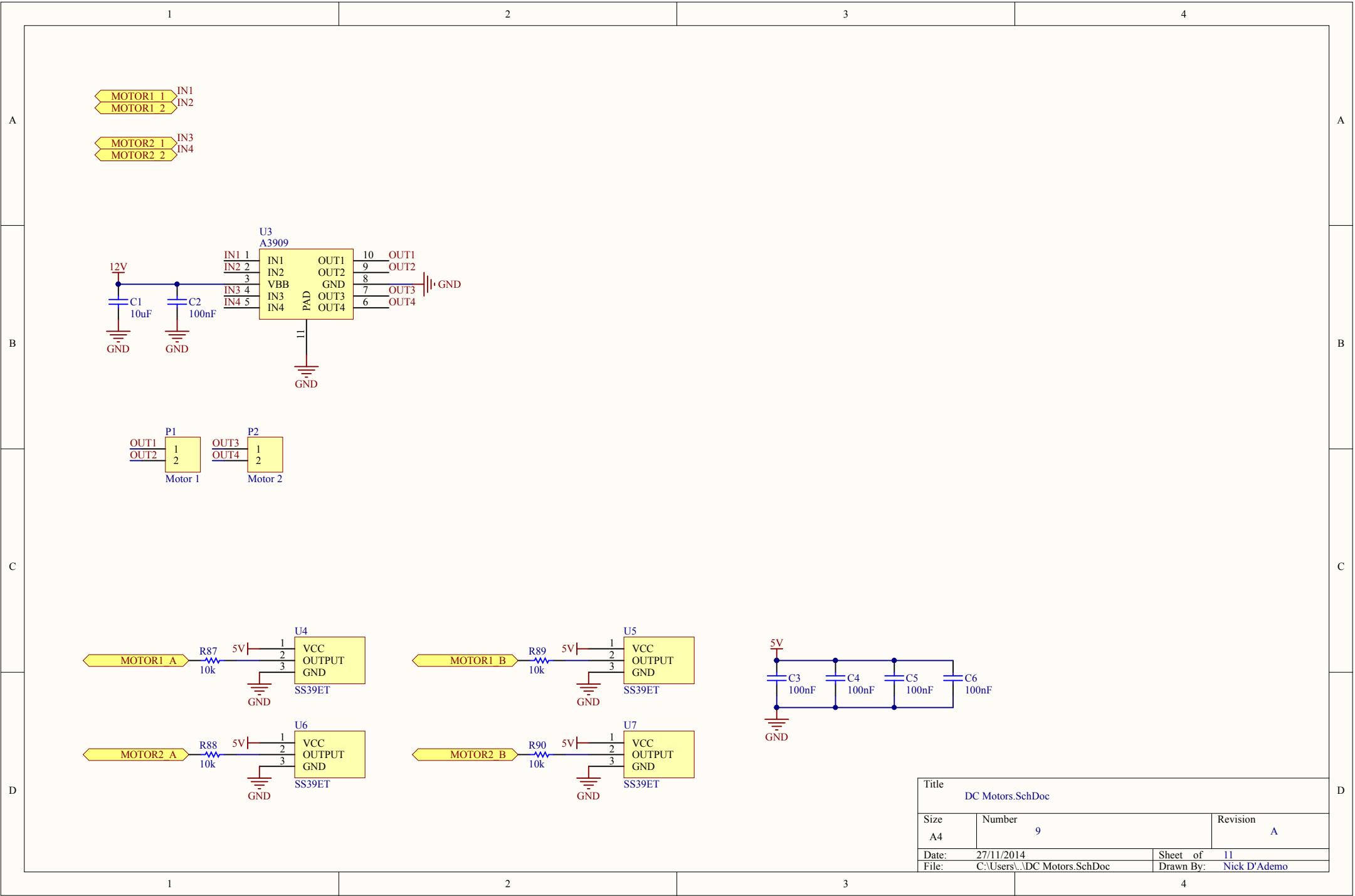
Light-to-Voltage parts:

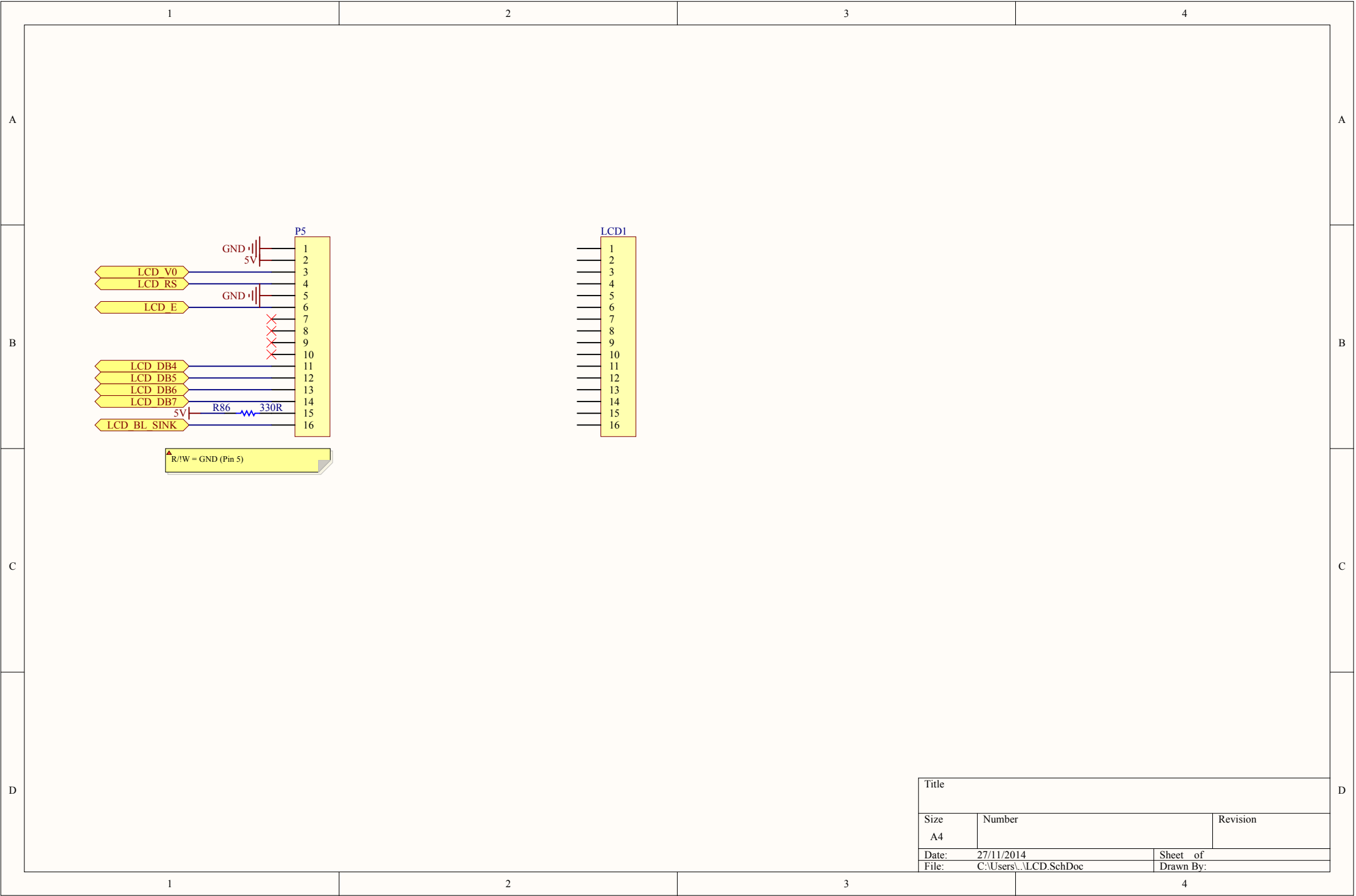
TSL125
TSL135
TSL145
TSL250R
TSL251R
TSL252R
TSL253R
TSL254R
TSL257
TSL260R (IR light)
TSL261R (IR light)
TSL262R (IR light)
TSL267 (IR light)

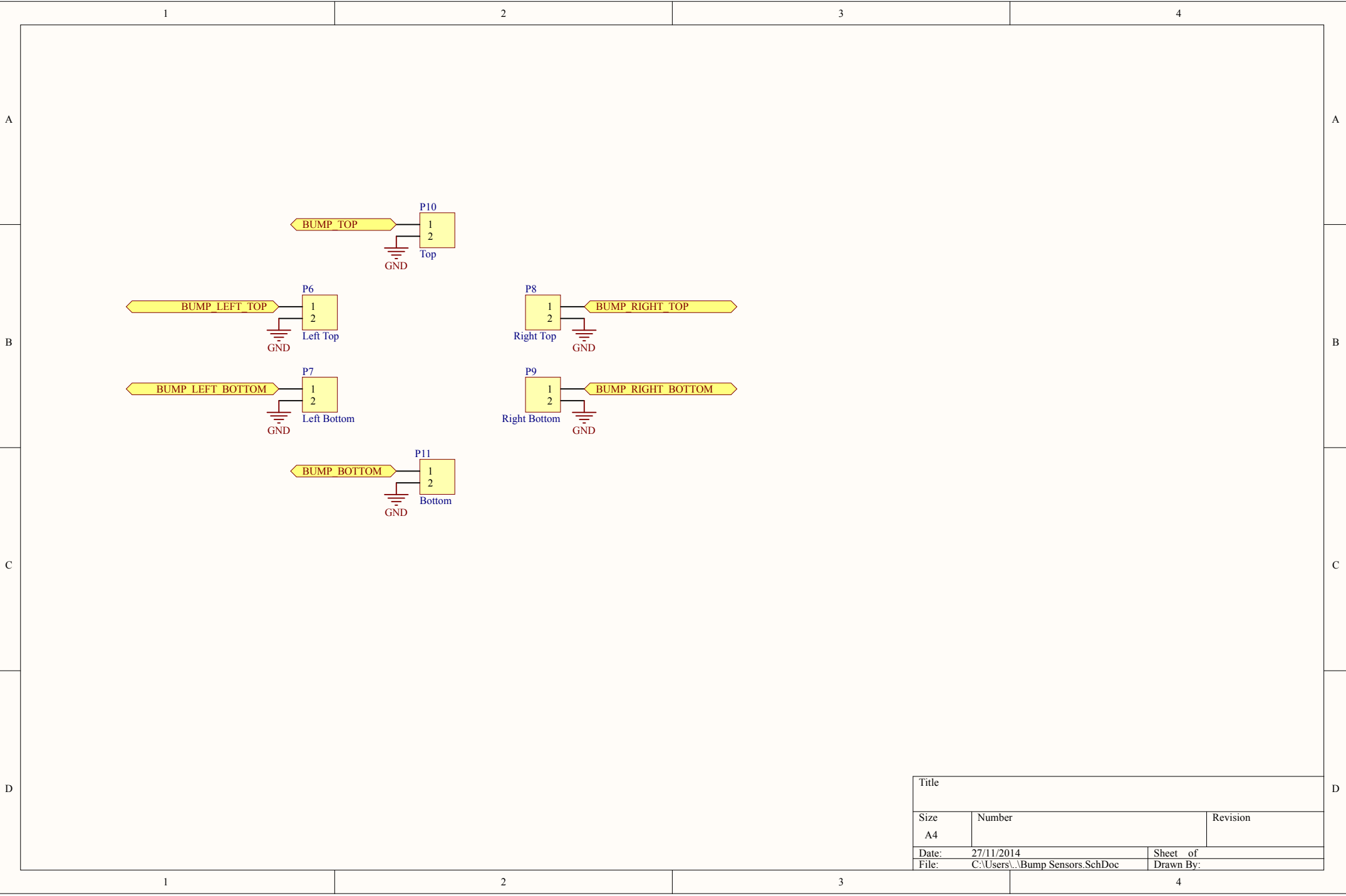
▲ Only install R53 to R68 if Light-to-Voltage parts are used.



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Title		
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Date:	27/11/2014	Sheet of
File:	C:\Users\...\Bump Sensors.SchDoc	Drawn By:

