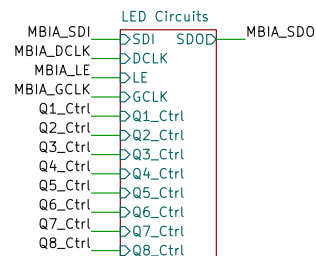
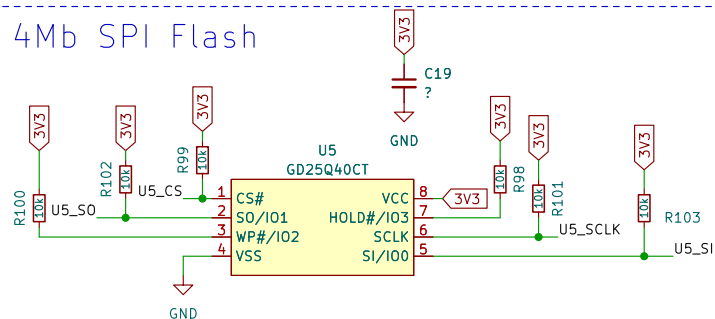
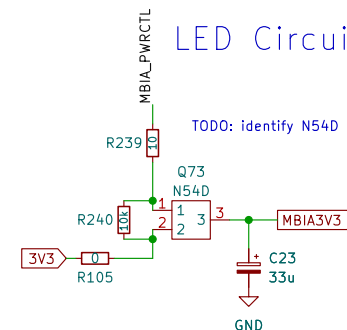


4Mb SPI Flash

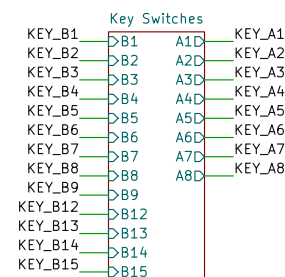


File: led_circuits.kicad_sch

LED Circuits

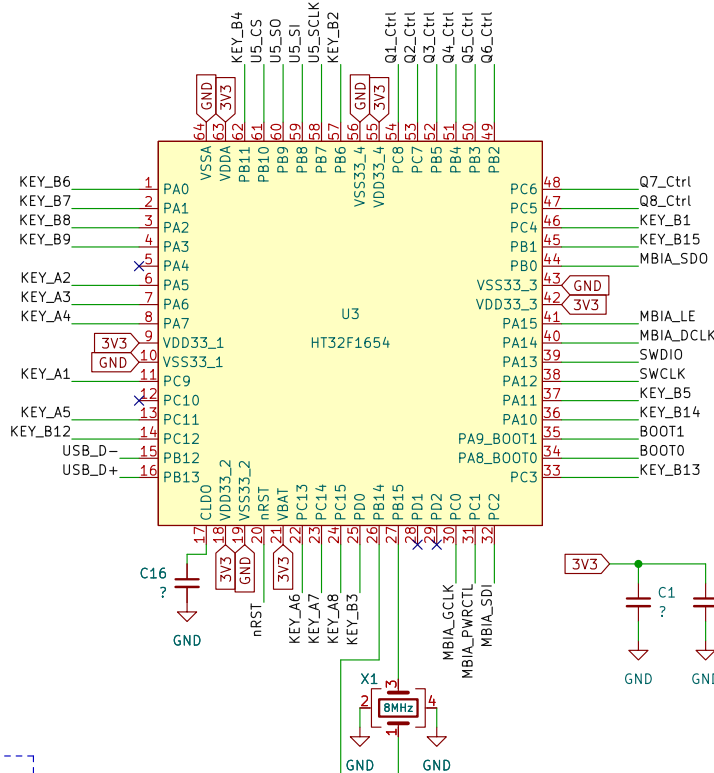
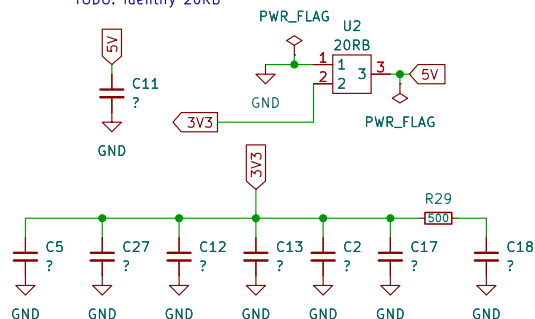


Key Switch Groups

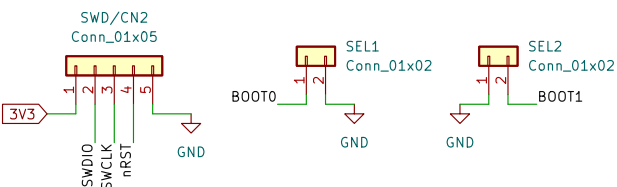


File: key_switches.kicad_sch

5V to 3.3V
TODO: identify 20RB



Debug Headers



SGK-6030 PCB
US/EU/KR V1.3
2016.09.29 Ben (presumably original author)
T=1.6MM FR-4 (TIN)

Drawn from PCB by Hansem Ro

Sheet: /
File: pros_rgb.kicad_sch

Title: Cooler Master MasterKeys Pro S RGB PCB (US Layout)

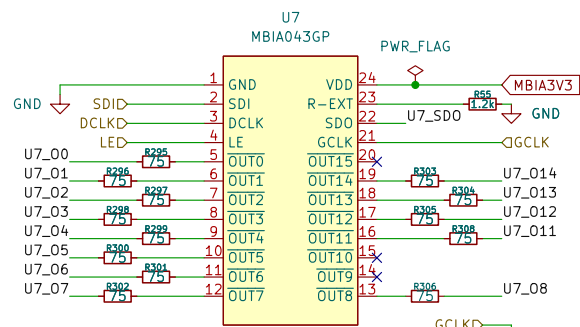
Size: A4

Date:

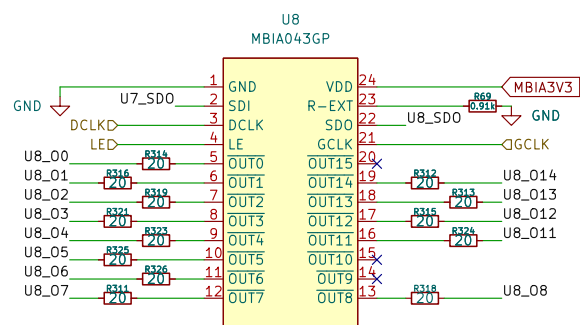
KiCad E.D.A. kicad (6.0.8)

Rev: B

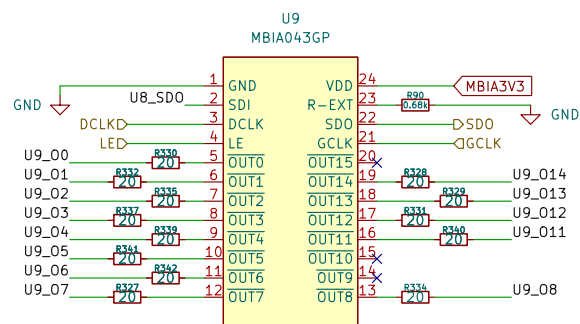
Id: 1/31



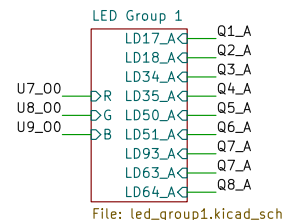
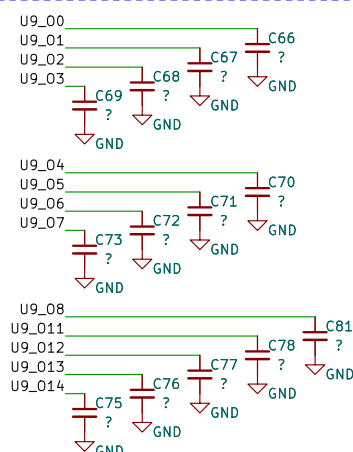
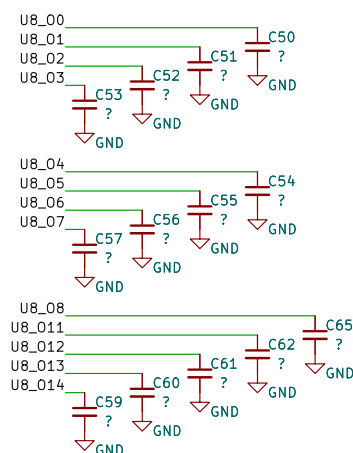
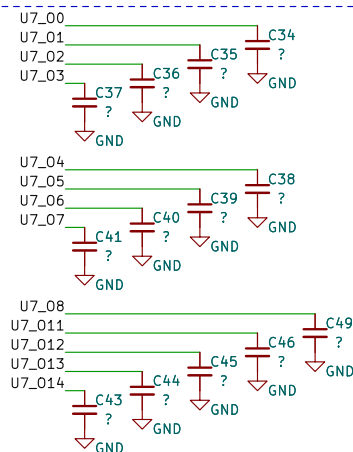
Red Channel LED Driver



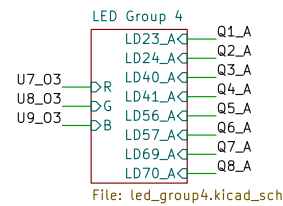
Green Channel LED Driver



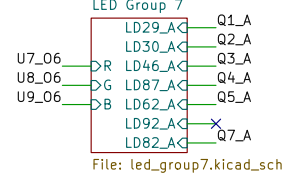
Blue Channel LED Driver



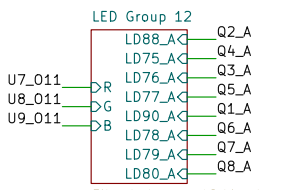
File: led_group1.kicad_sch



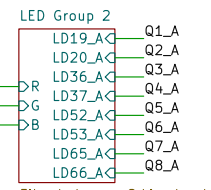
File: led_group4.kicad_sch



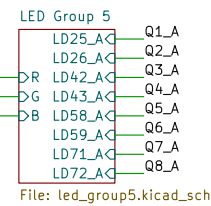
File: led_group7.kicad_sch



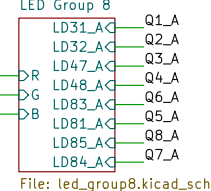
File: led_group12.kicad_sch



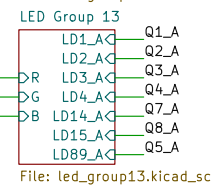
File: led_group2.kicad_sch



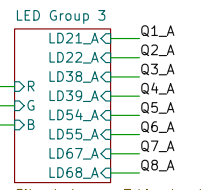
File: led_group5.kicad_sch



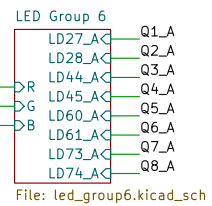
File: led_group8.kicad_sch



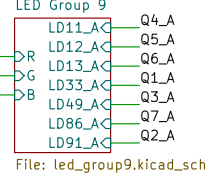
File: led_group13.kicad_sch



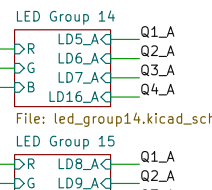
File: led_group3.kicad_sch



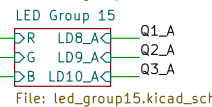
File: led_group6.kicad_sch



File: led_group9.kicad_sch



File: led_group14.kicad_sch

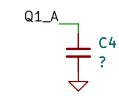
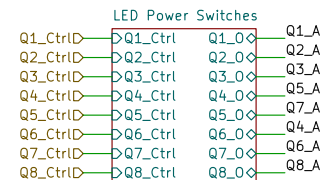


File: led_group15.kicad_sch

RGB LEDs

Grouped by shared RGB pins

LED Power Drivers



Map of LDs to Keypad

Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/ File: led_circuits.kicad_sch		Rev: B	
Title: Cooler Master MasterKeys Pro S RGB LED Circuits (US Layout)		Date:	
Size: A4		KiCad E.D.A. kicad (6.0.8)	
		Id: 2/31	

	1	2	3	4	5	6											
A	LD16 Pause	LD15 ScrLk	LD14 PrtSc	LD13 F12	LD12 F11	LD11 F10	LD10 F9	LD9 F8	LD8 F7	LD7 F6	LD6 F5	LD5 F4	LD4 F3	LD3 F2	LD2 F1	LD1 Esc	
	LD33 PgUp	LD32 Home	LD31 Ins	LD30 BcksP	LD29 =	LD28 _	LD27 0	LD26 9	LD25 8	LD24 7	LD23 6	LD22 5	LD21 4	LD20 3	LD19 2	LD18 1	LD17
B	LD49 PgDwn	LD48 End	LD47 Del	LD87 \	LD46 [LD45]	LD44 P	LD43 O	LD42 I	LD41 U	LD40 Y	LD39 T	LD38 R	LD37 E	LD36 W	LD35 Q	LD34 Tab
				LD92 NC													
				LD62 Enter	LD88 NC	LD61	LD60	LD59 L	LD58 K	LD57 J	LD56 H	LD55 G	LD54 F	LD53 D	LD52 S	LD51 A	LD50 CapsLk
C	LD83 UpArw			LD74 RgtShift	LD73 /	LD72	LD71	LD70 M	LD69 N	LD68 B	LD67 V	LD66 C	LD65 X	LD64 Z	LD89 NC	LD63 LftShift	LD93 NC
	LD86 RgtArw	LD84 DwnArw	LD85 LftArw	LD82 RgtCtrl	LD81 Fn	LD80 RgtWin	LD79 RgtAlt	LD91 NC			LD78 Space			LD90 NC	LD77 LftAlt	LD76 LftWin	LD75 LftCtrl
D																	

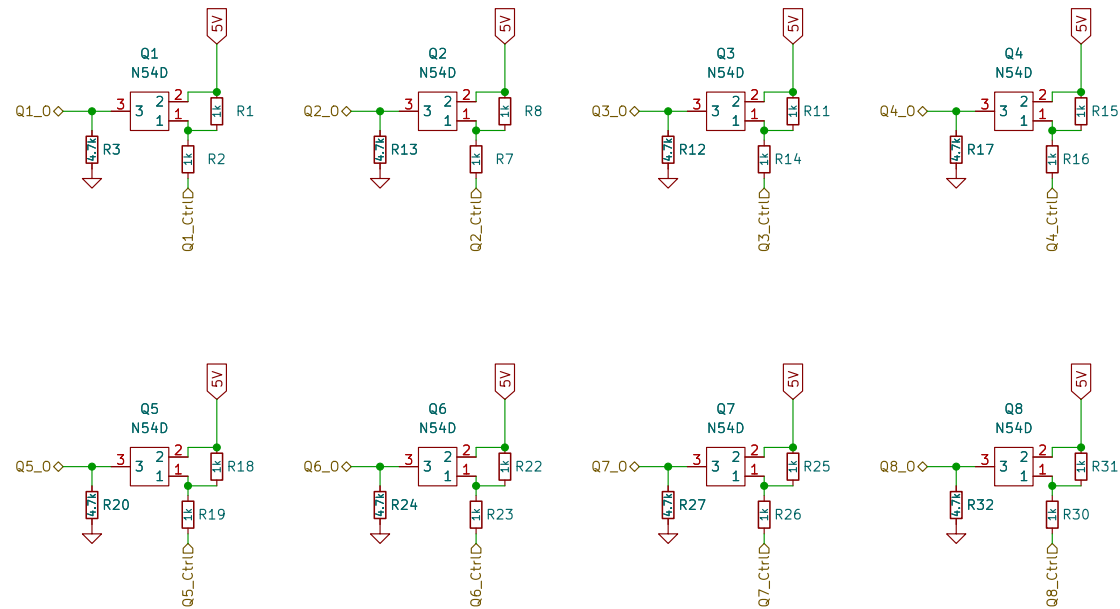
Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED_KEYMAP_TEXT/
File: led_keymap_text.sch.kicad_sch

Title:

Size: A4Date:Rev:

KiCad E.D.A. kicad (6.0.8)Id: 3/31



Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Power Switches/
File: led_power_switches.kicad_sch

Title:

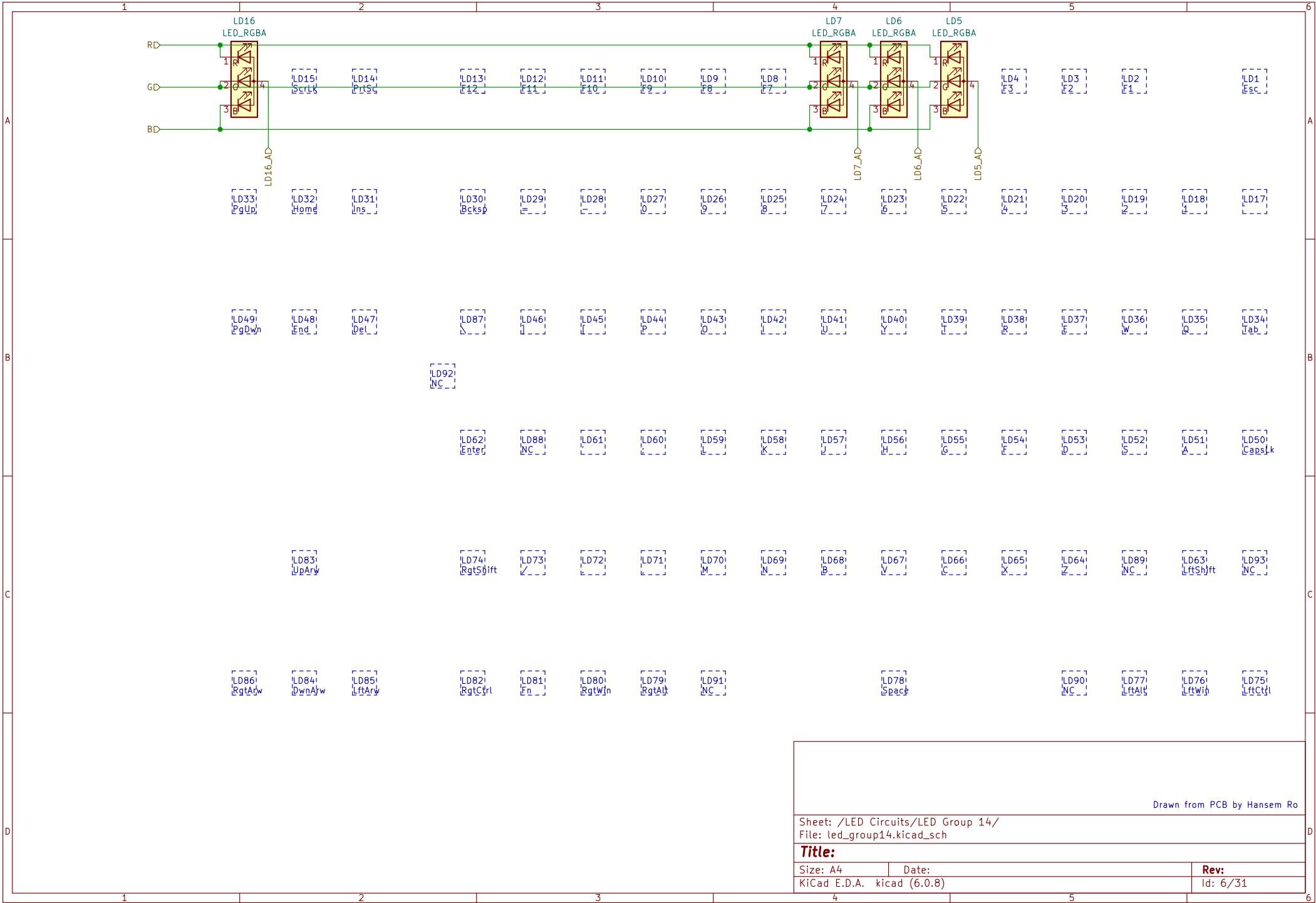
Size: A4

Date:

KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 4/31



Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Group 14/
File: led_group14.kicad_sch

Title:

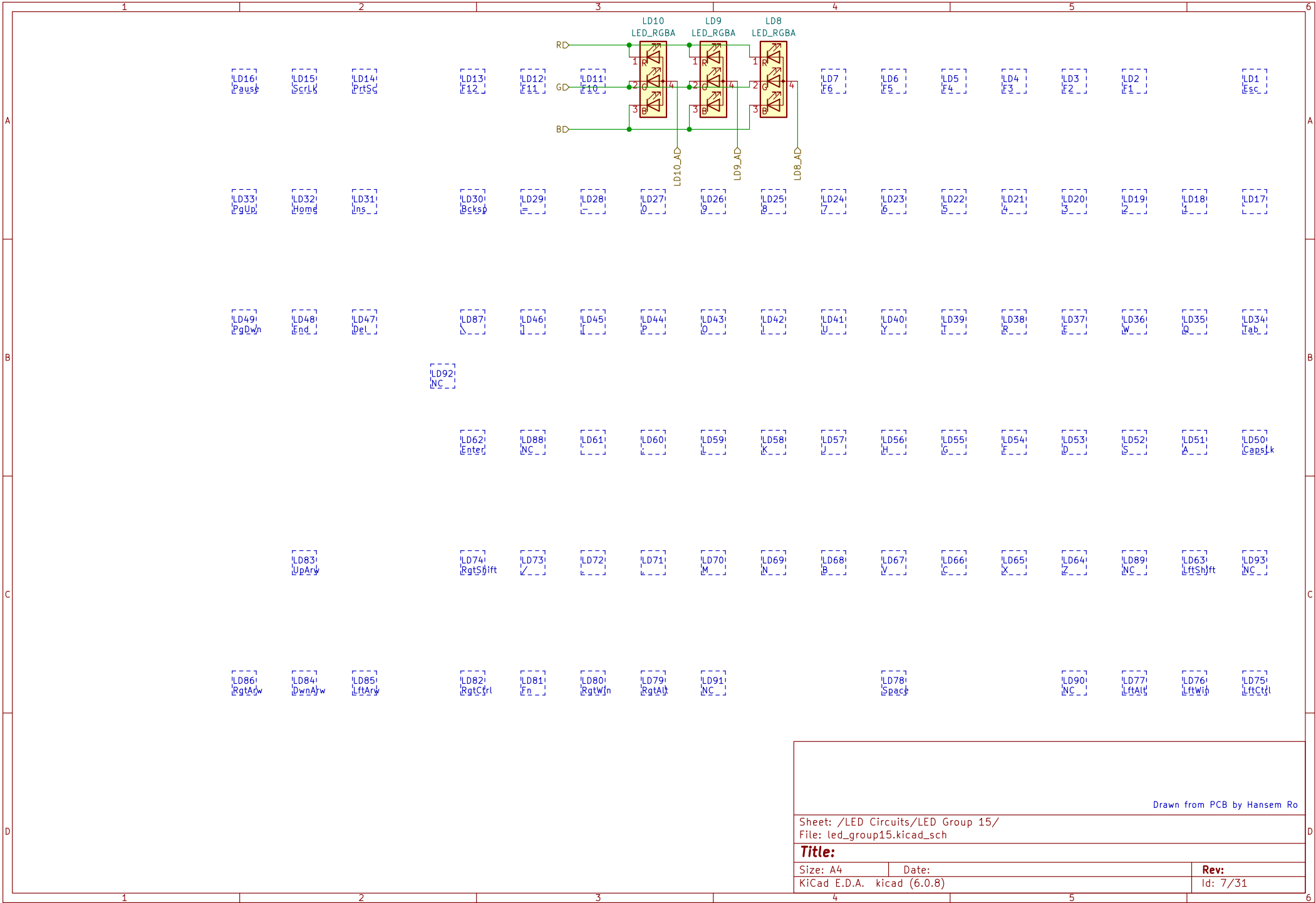
Size: A4

Date:

KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 6/31



Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Group 15/
File: led_group15.kicad_sch

Title:

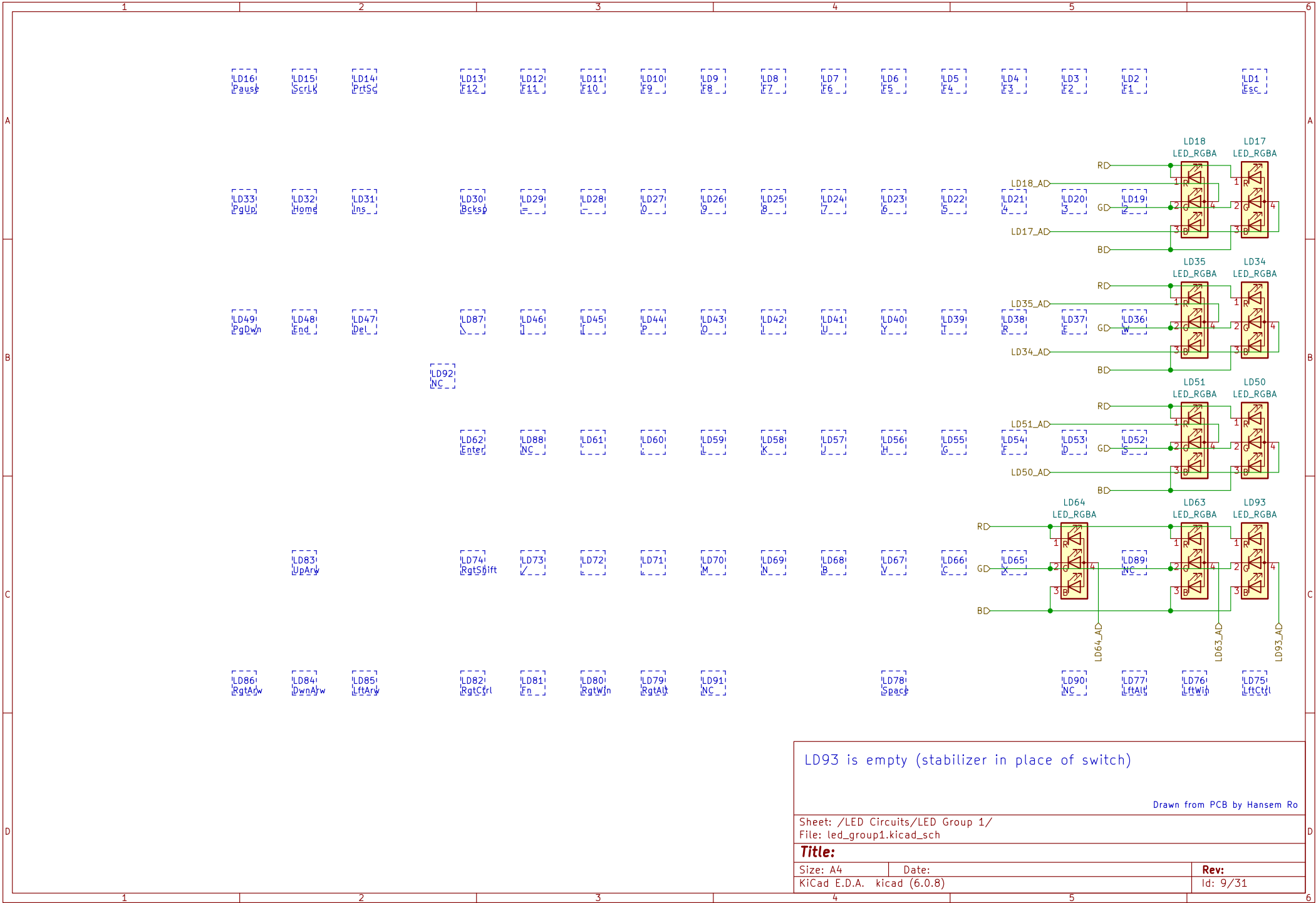
Size: A4

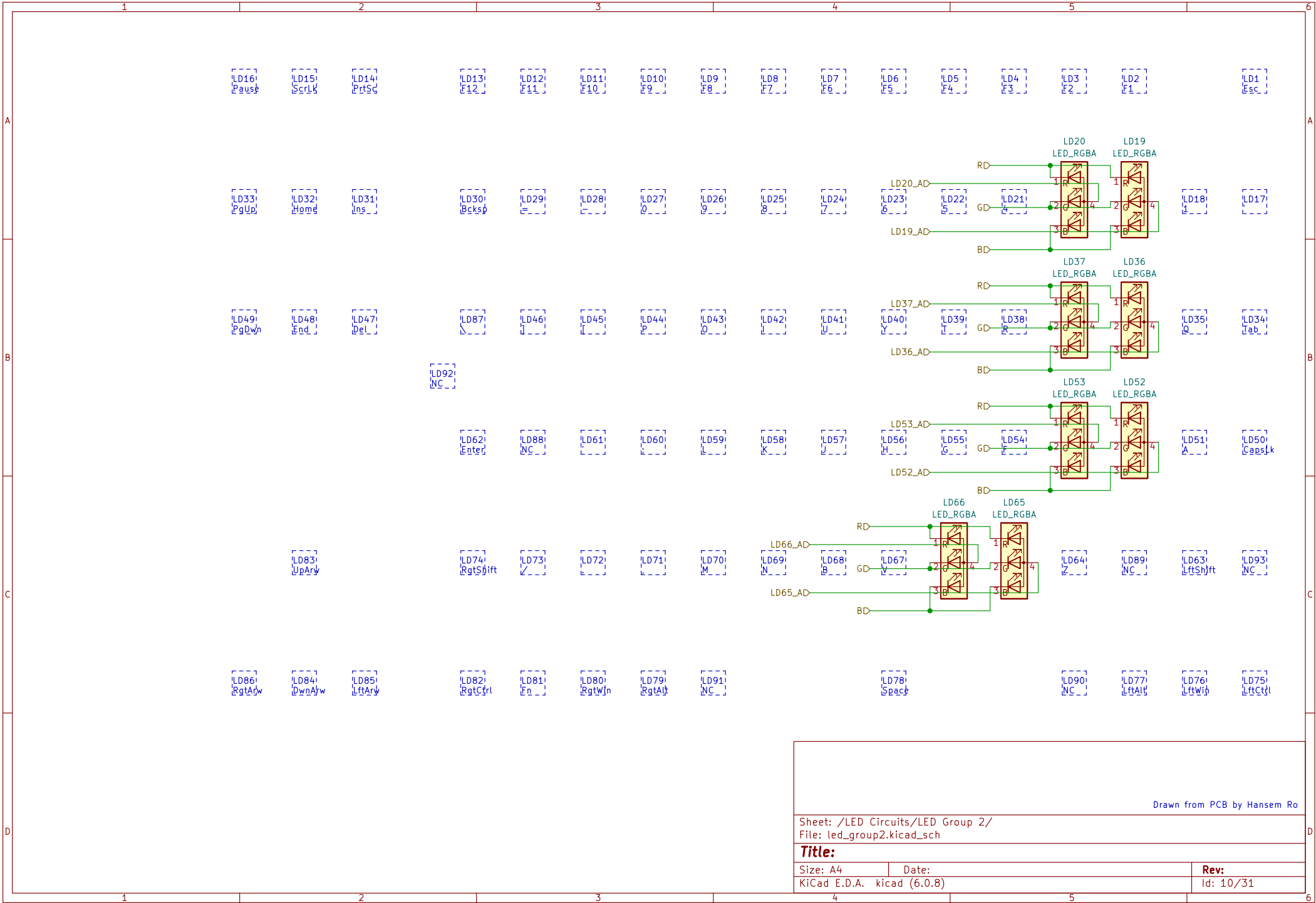
Date:

KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 7/31





Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Group 2/
File: led_group2.kicad_sch

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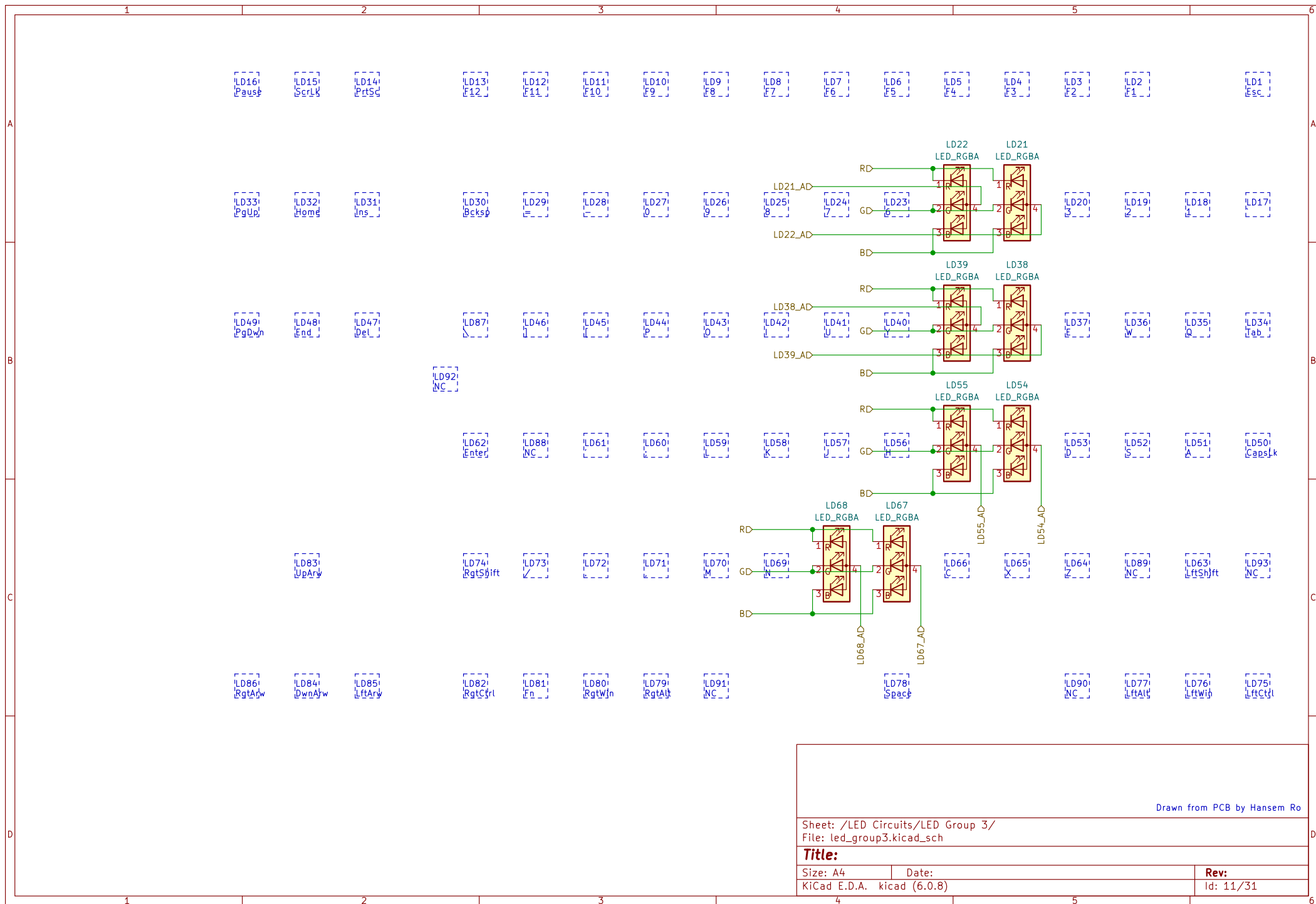
Size: A4

Date:

Rev:

KiCad E.D.A. kicad (6.0.8)

Id: 10/31



Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Group 3/
File: led_group3.kicad_sch

Title:

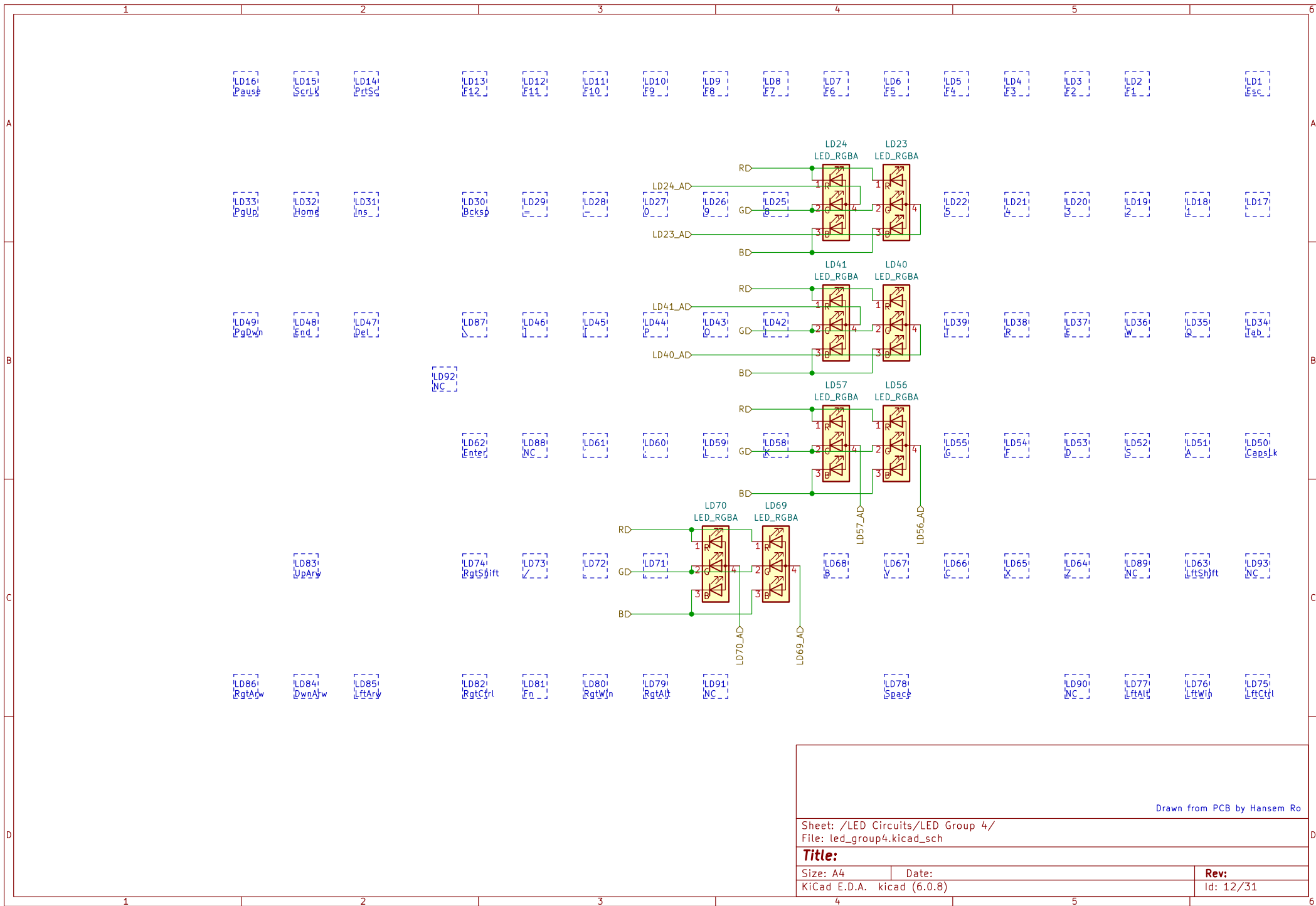
Size: A4

Date:

KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 11/31



Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Group 4/
File: led_group4.kicad_sch

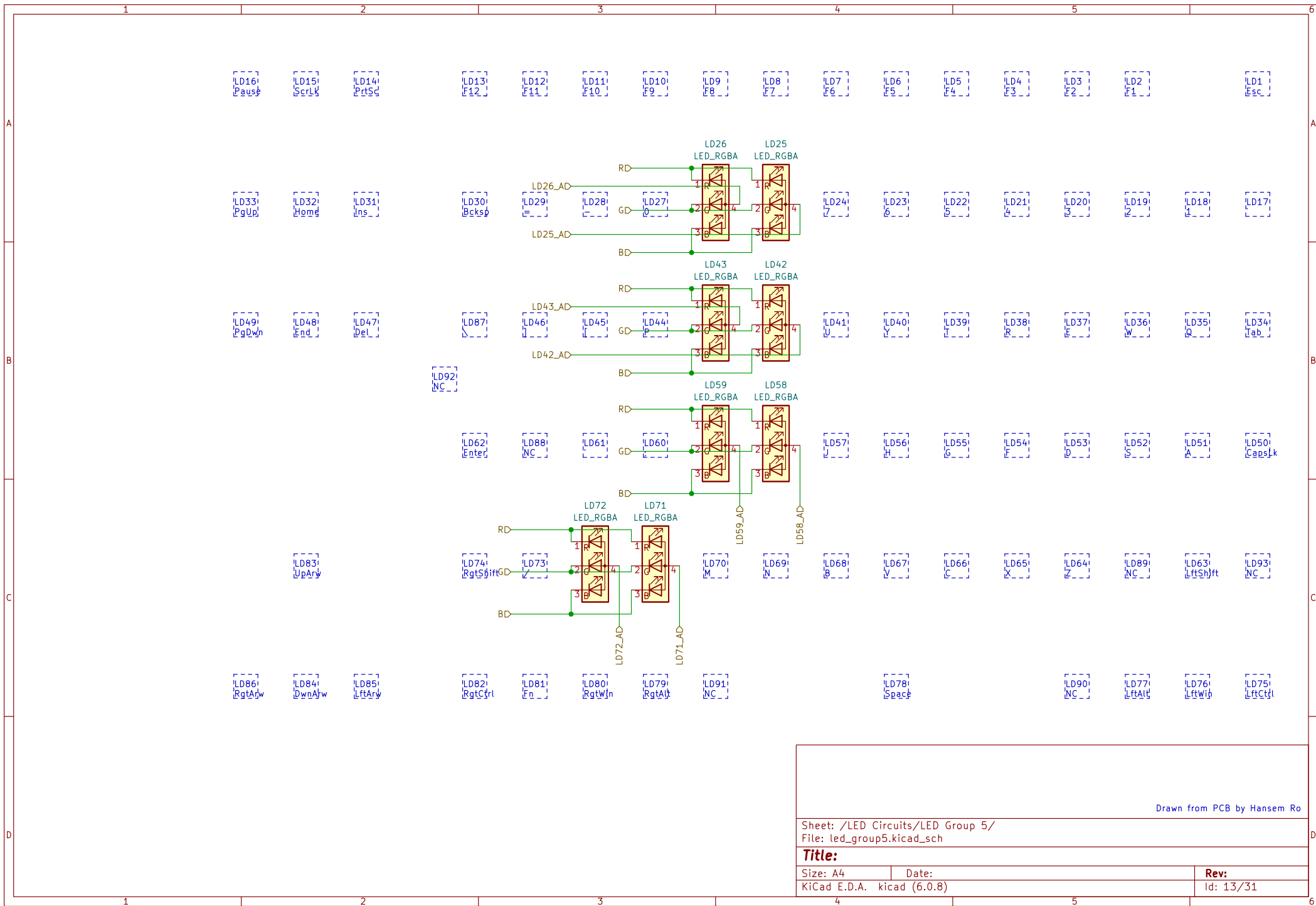
Title:

Size: A4
KiCad E.D.A. kicad (6.0.8)

Date:

Rev:

Id: 12/31



Drawn from PCB by Hansem Ro

Sheet: /LED Circuits/LED Group 5/
File: led_group5.kicad_sch

Title:

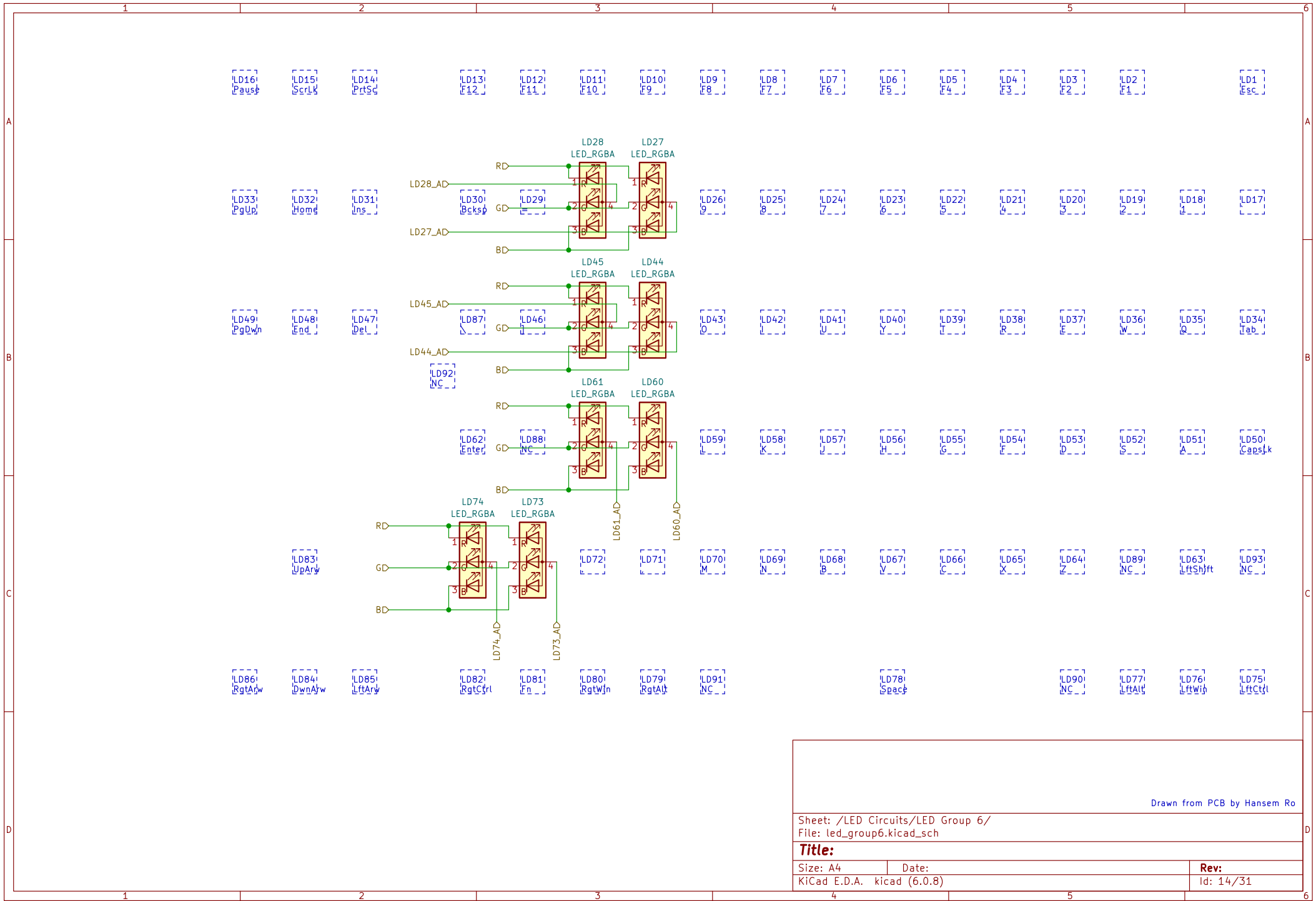
Size: A4

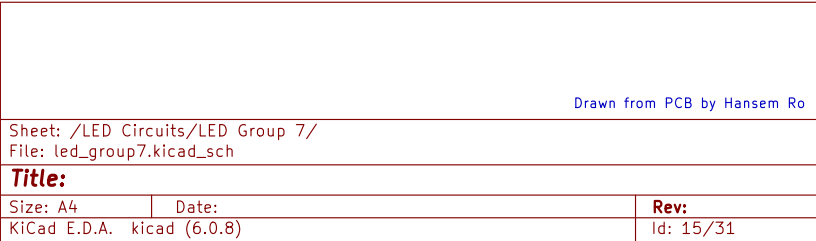
Date:

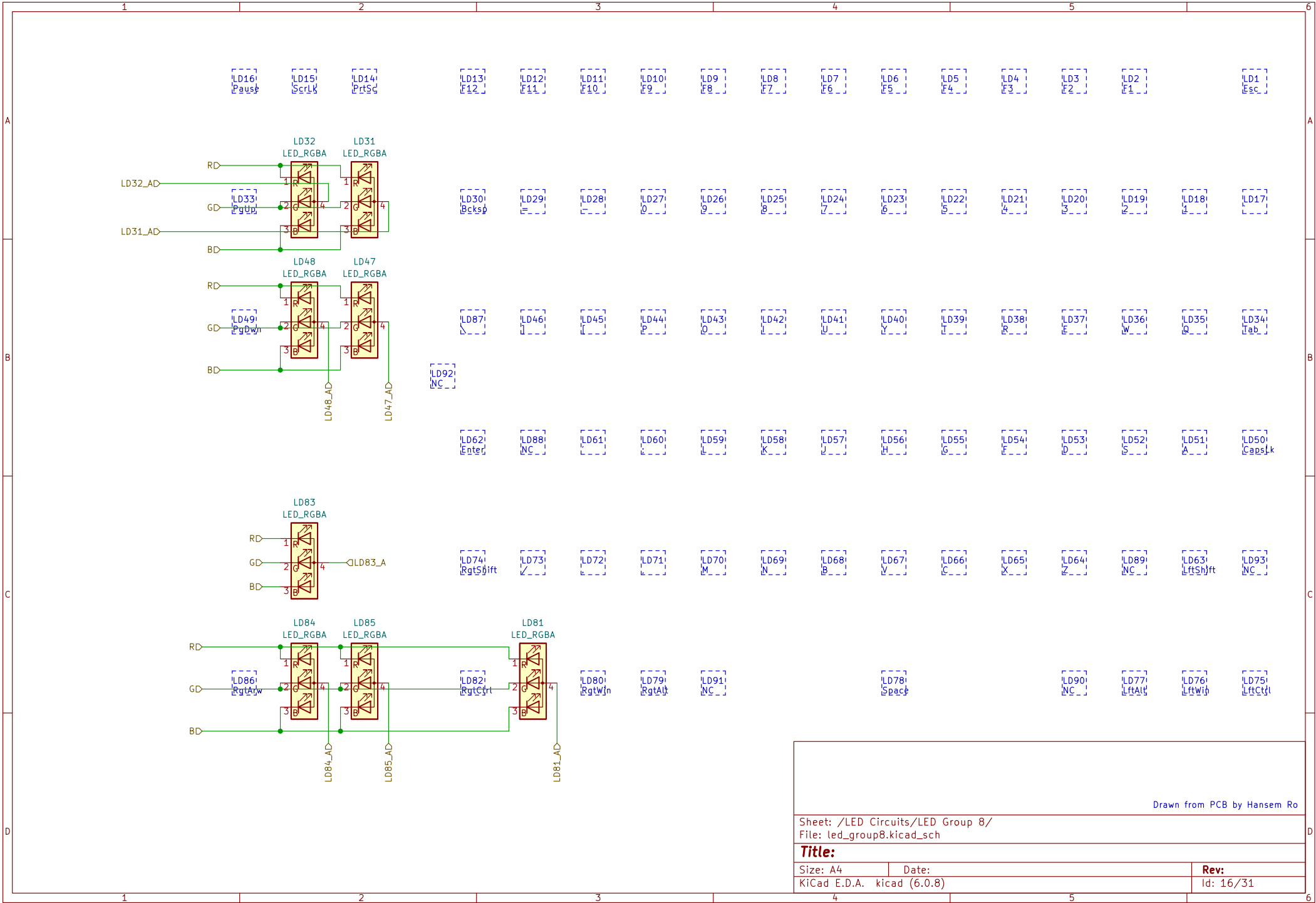
KiCad E.D.A. kicad (6.0.8)

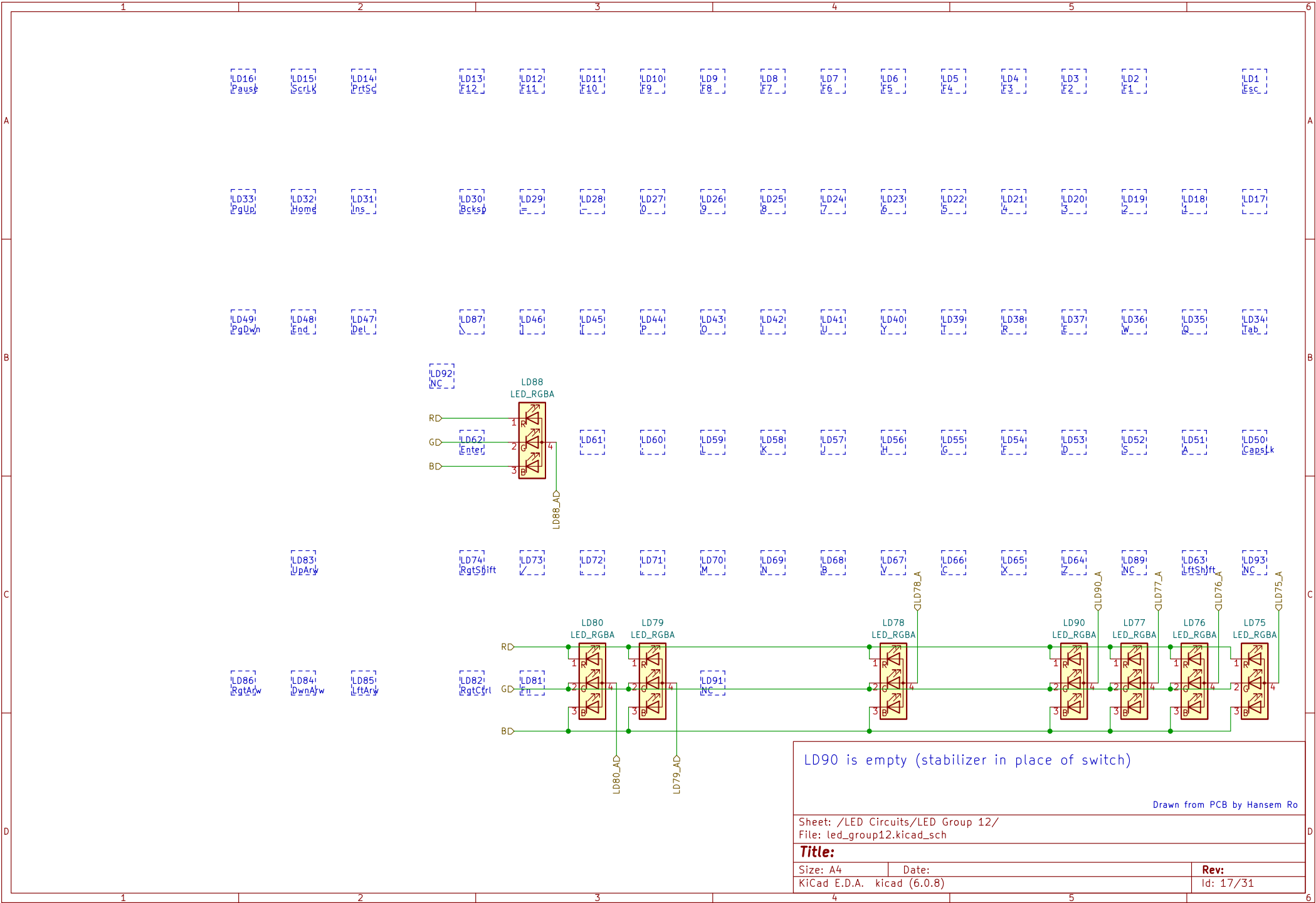
Rev:

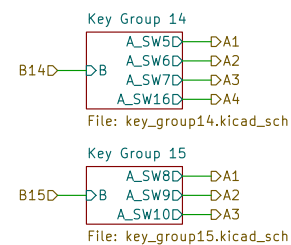
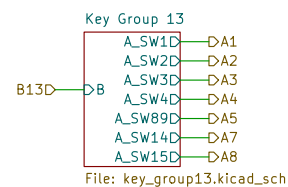
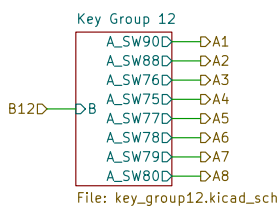
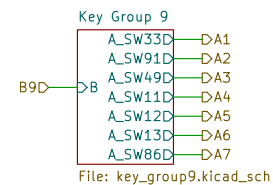
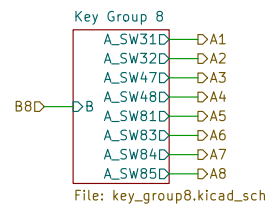
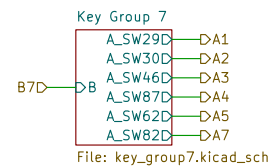
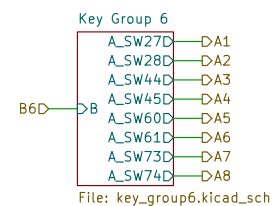
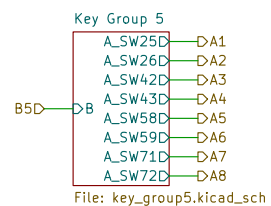
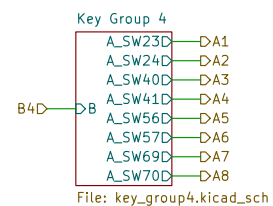
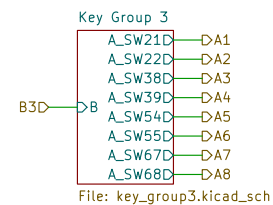
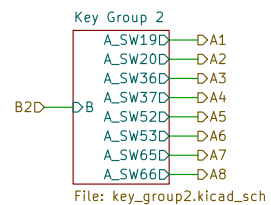
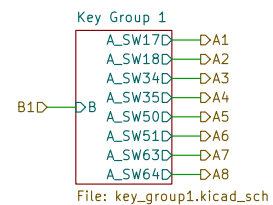
Id: 13/31











Unused switch mounts on US Layout:
SW92, SW88, SW93, SW89, SW90, SW91

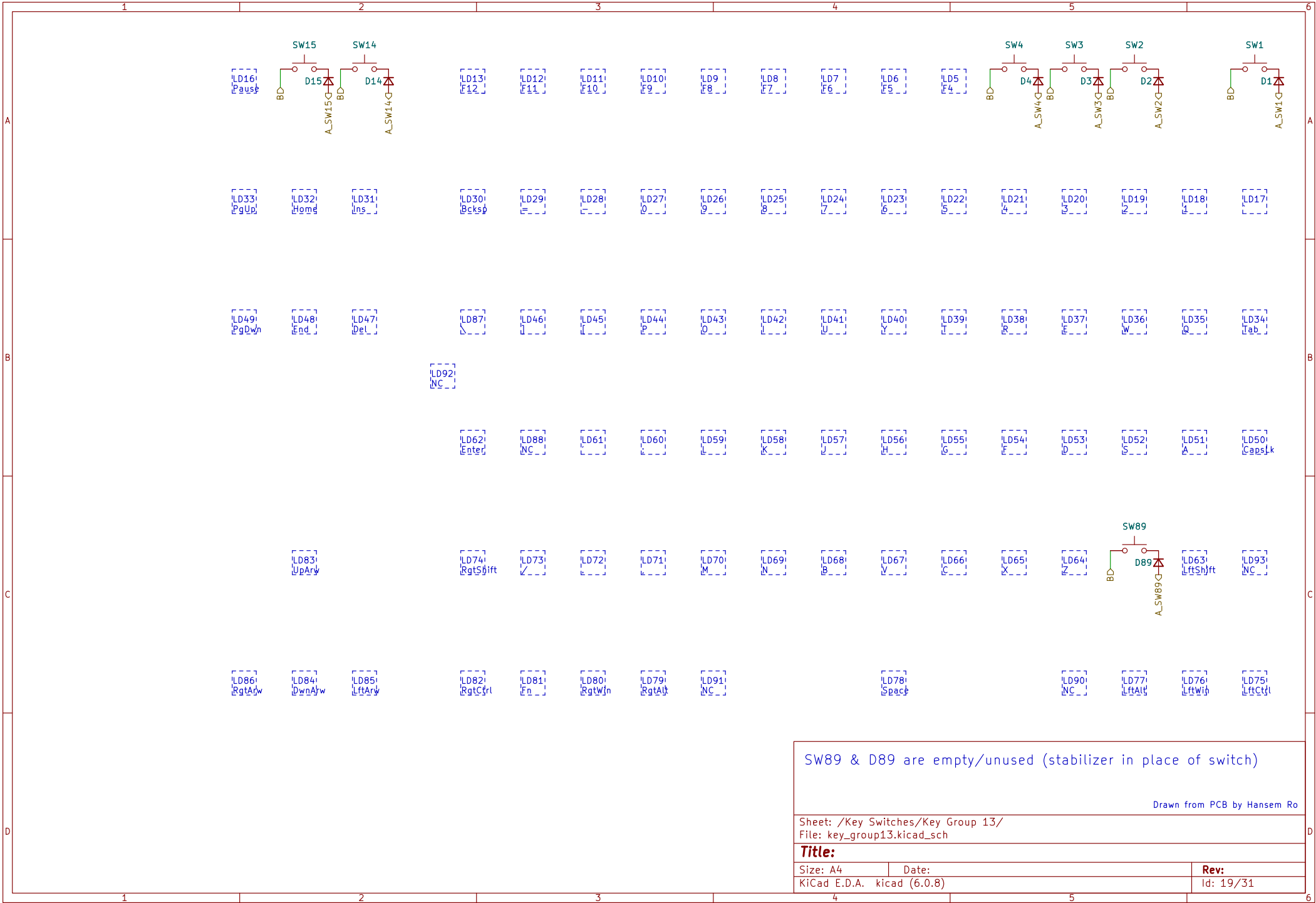
Drawn from PCB by Hansem Ro

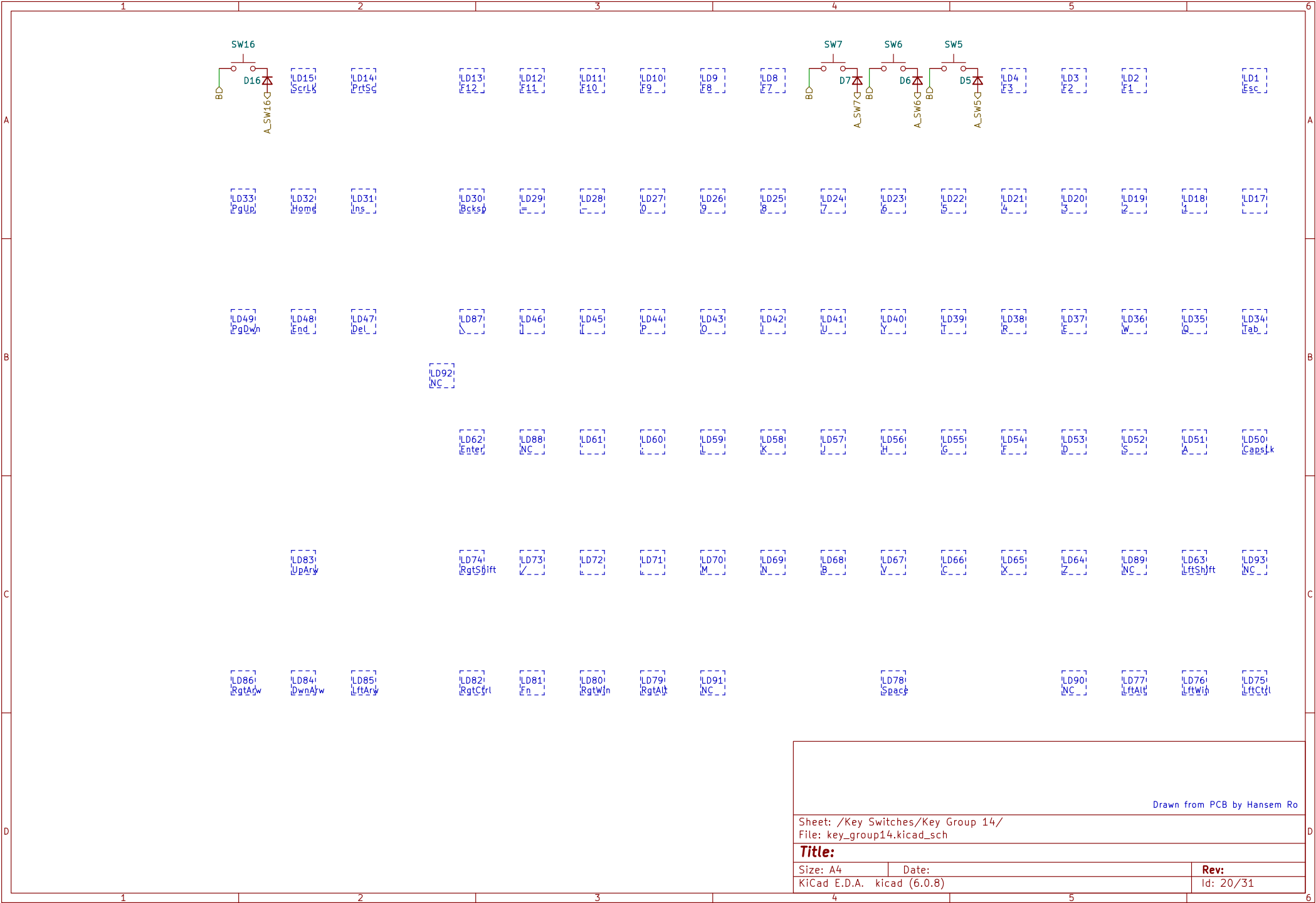
Sheet: /Key Switches/
File: key_switches.kicad_sch

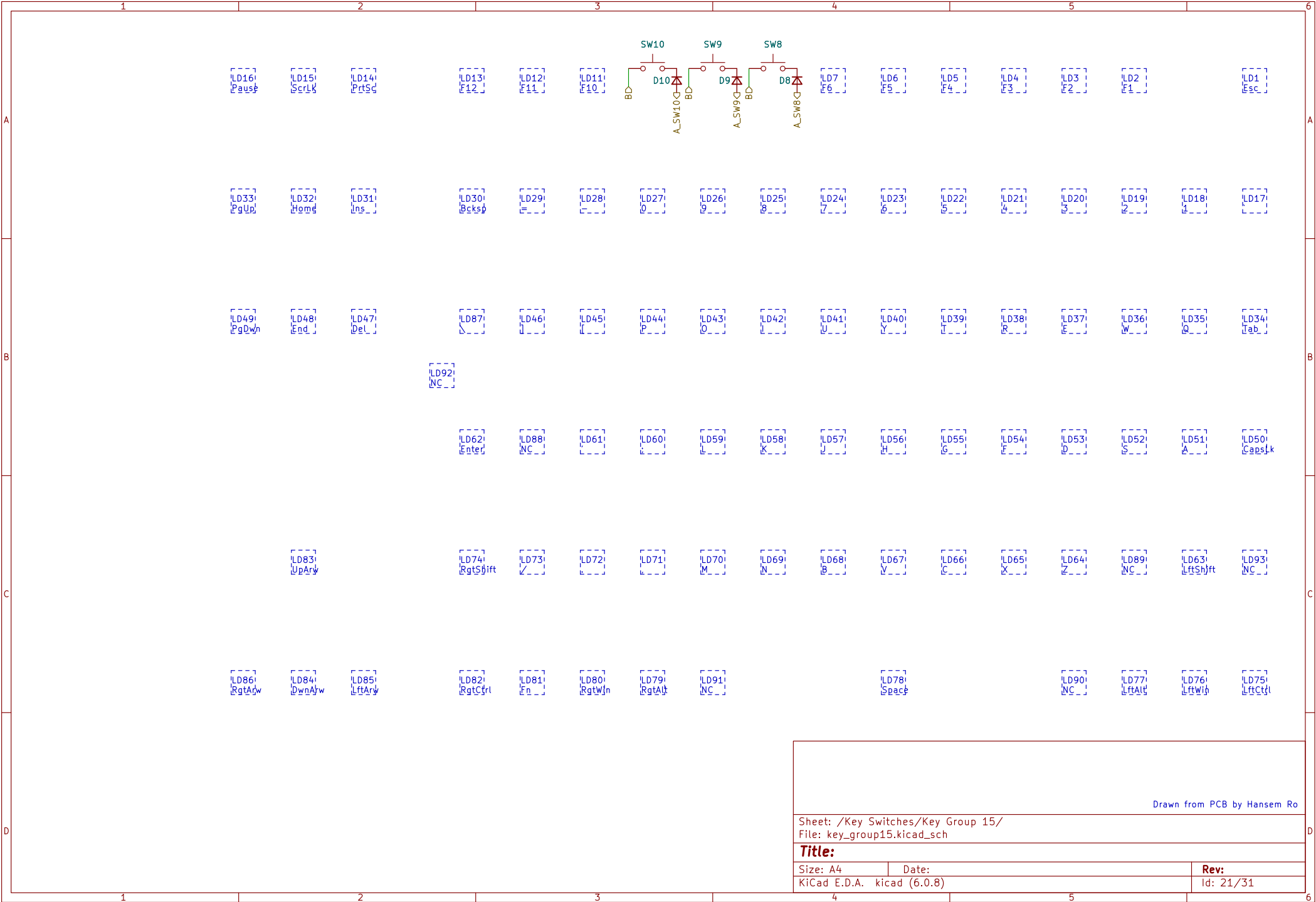
Title:

Size: A4	Date:
KiCad E.D.A. kicad (6.0.8)	

Rev: B
Id: 18/31





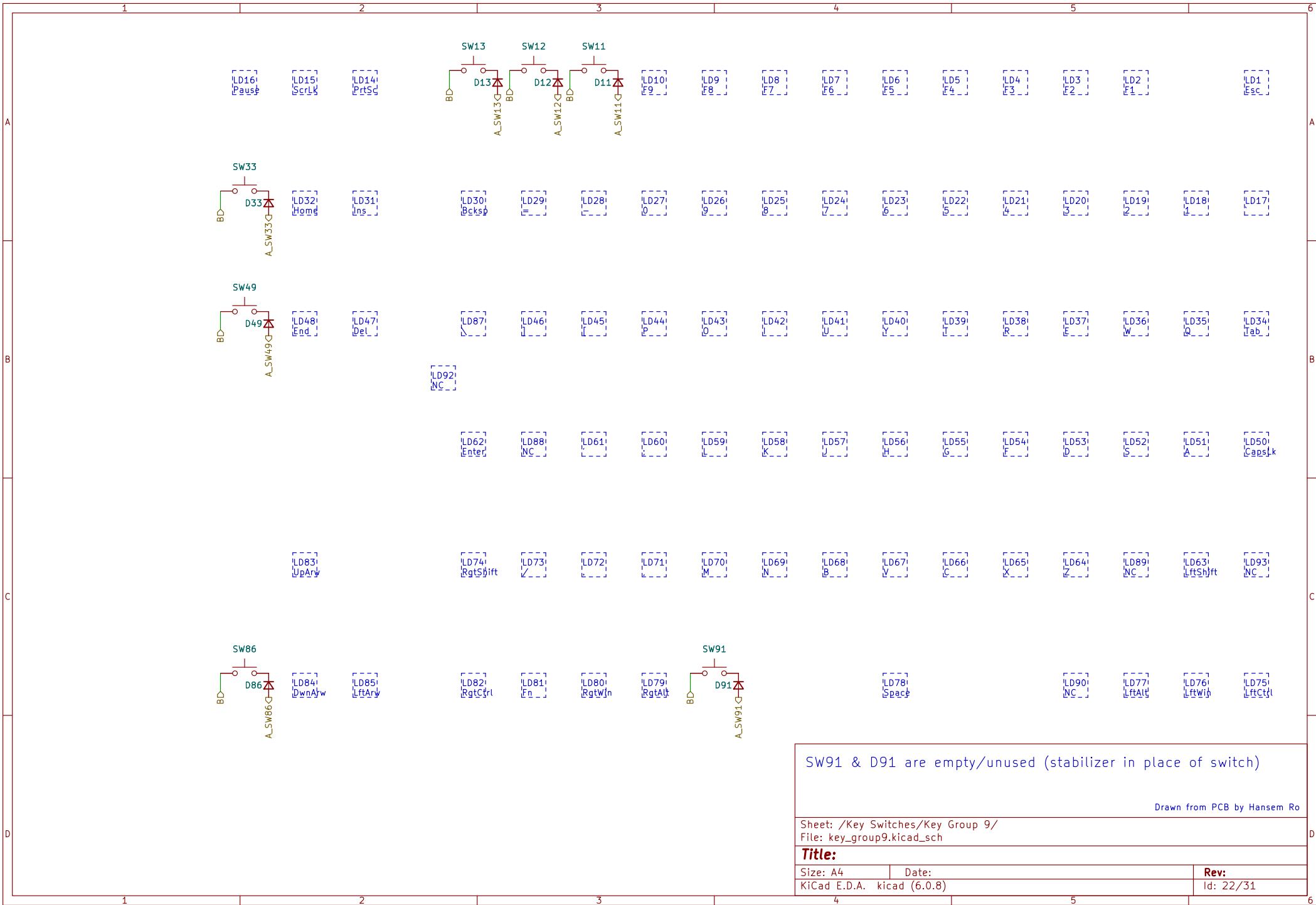


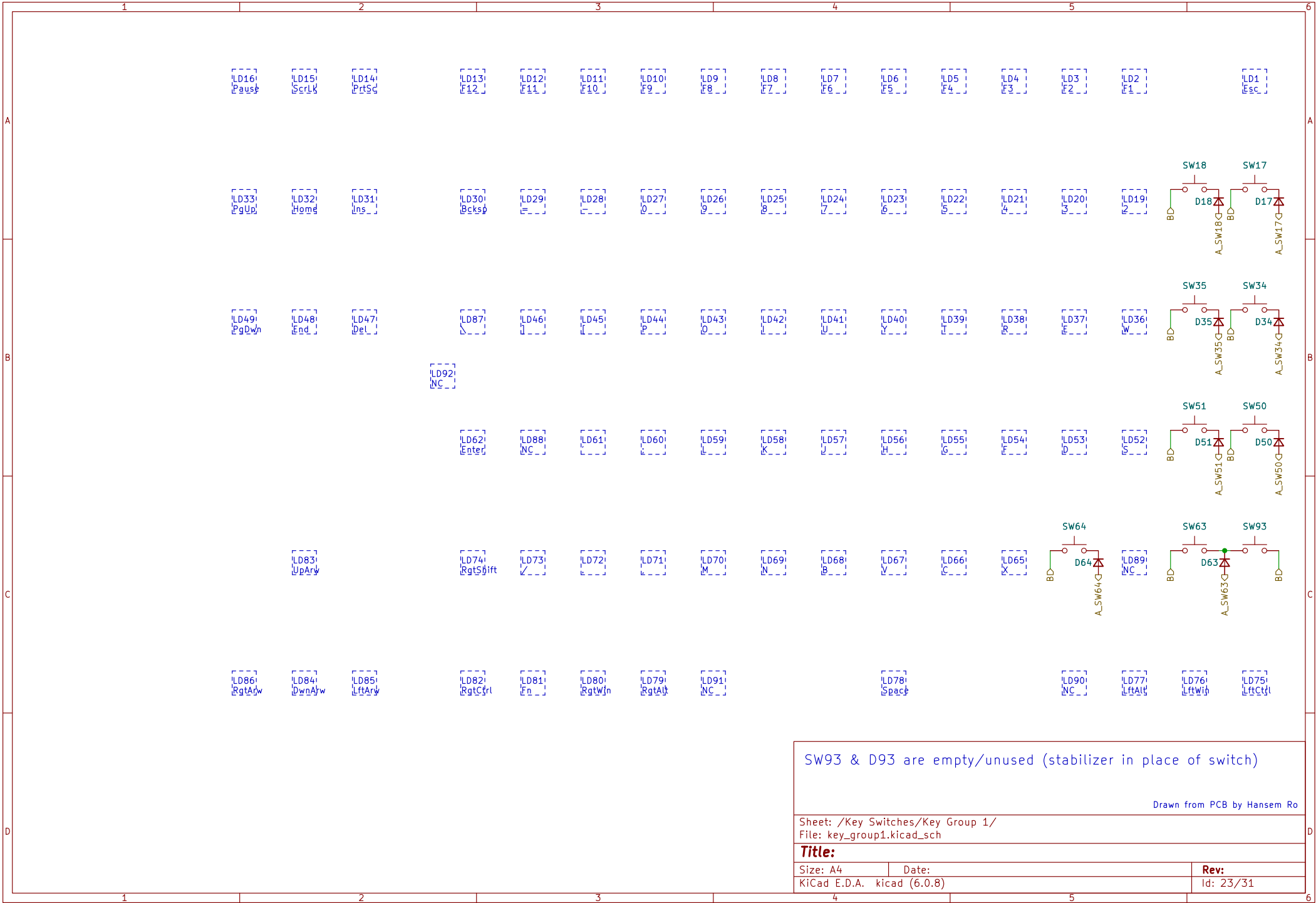
Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 15/
File: key_group15.kicad_sch

Title:

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.8)		Id: 21/31



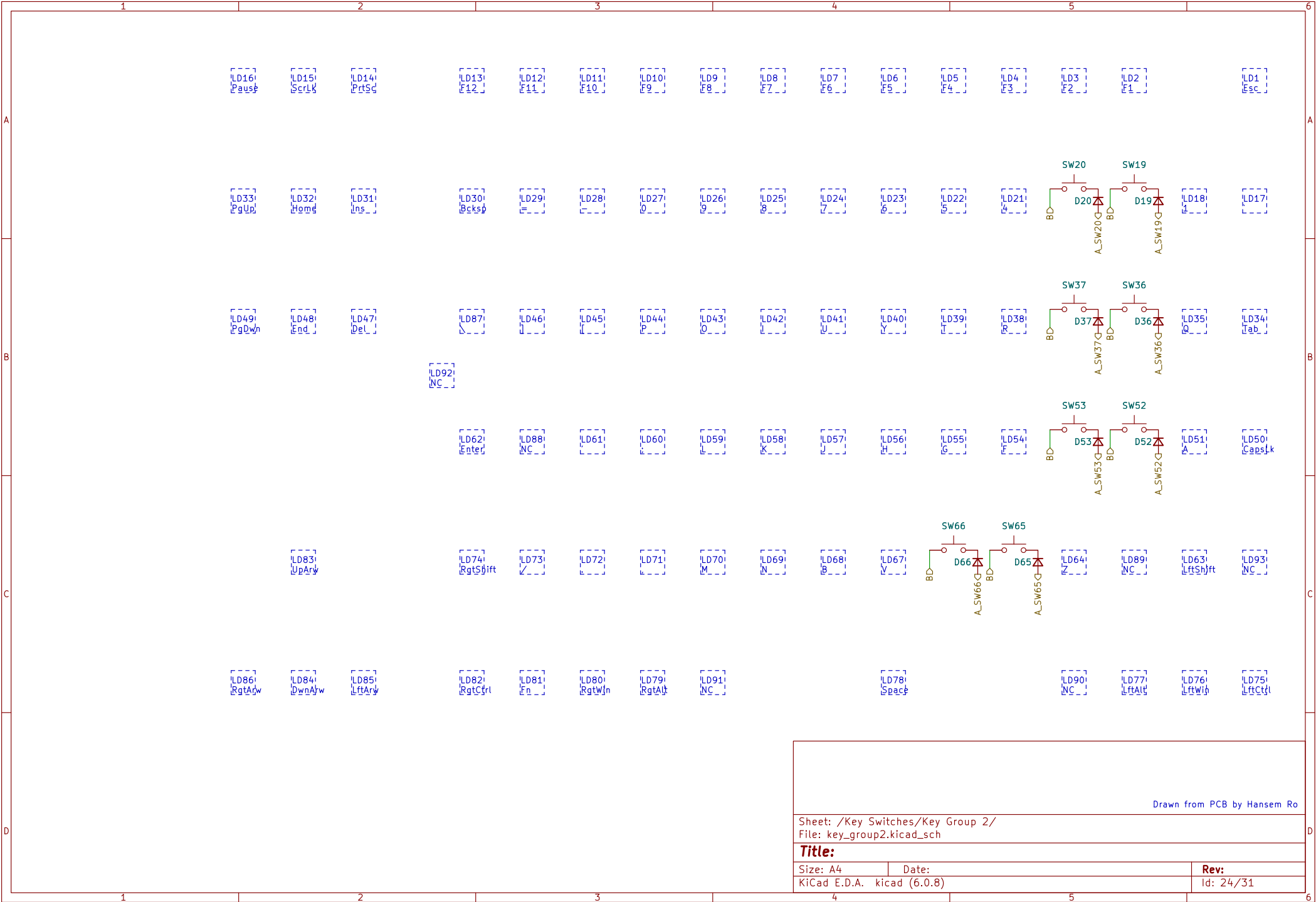


SW93 & D93 are empty/unused (stabilizer in place of switch)

Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 1/
File: key_group1.kicad_sch

Title:	
Size: A4	Date:
KiCad E.D.A. kicad (6.0.8)	
Rev:	
Id: 23/31	

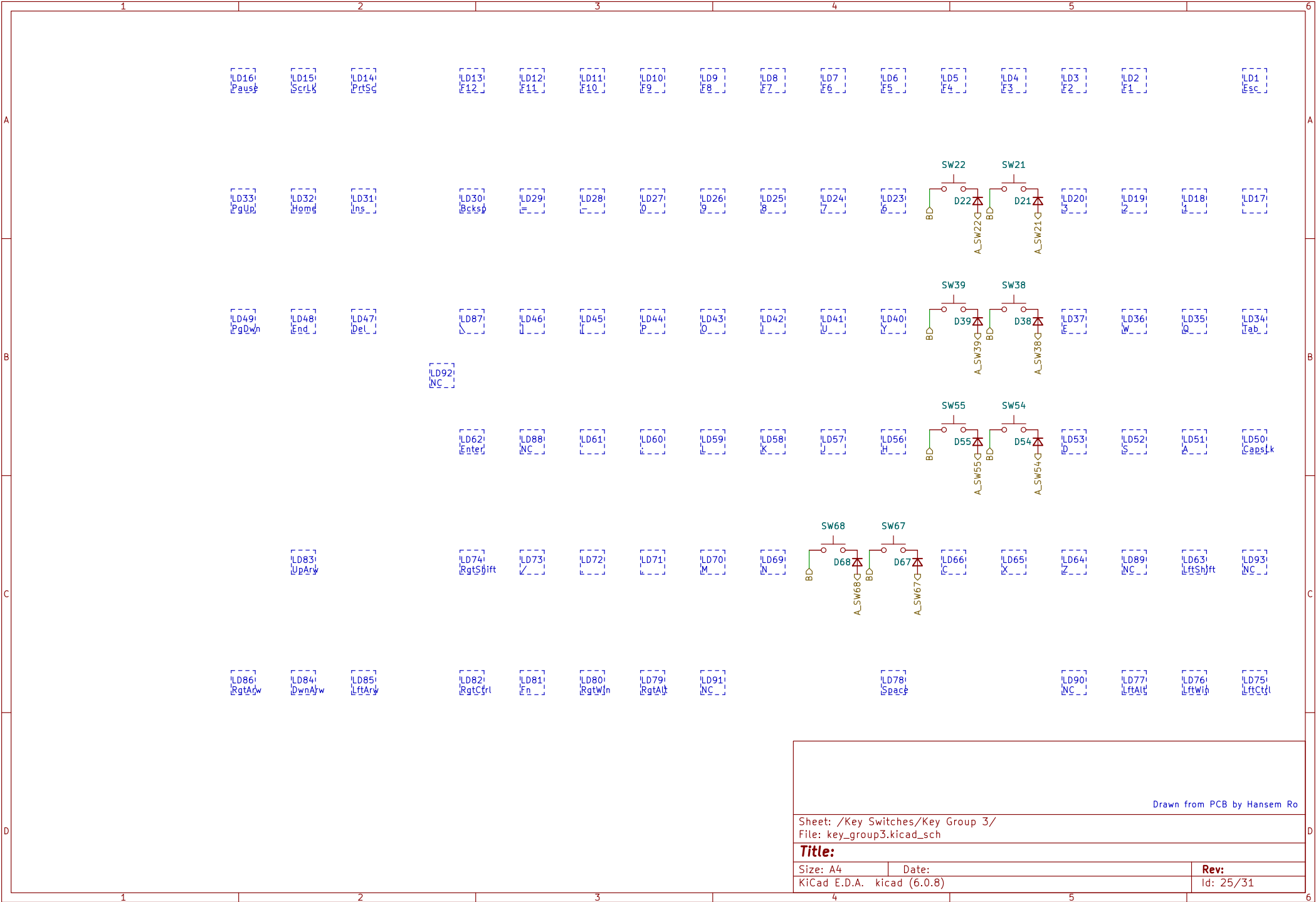


Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 2/
File: key_group2.kicad_sch

Title:

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.8)		Id: 24/31



Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 3/
File: key_group3.kicad_sch

Title:

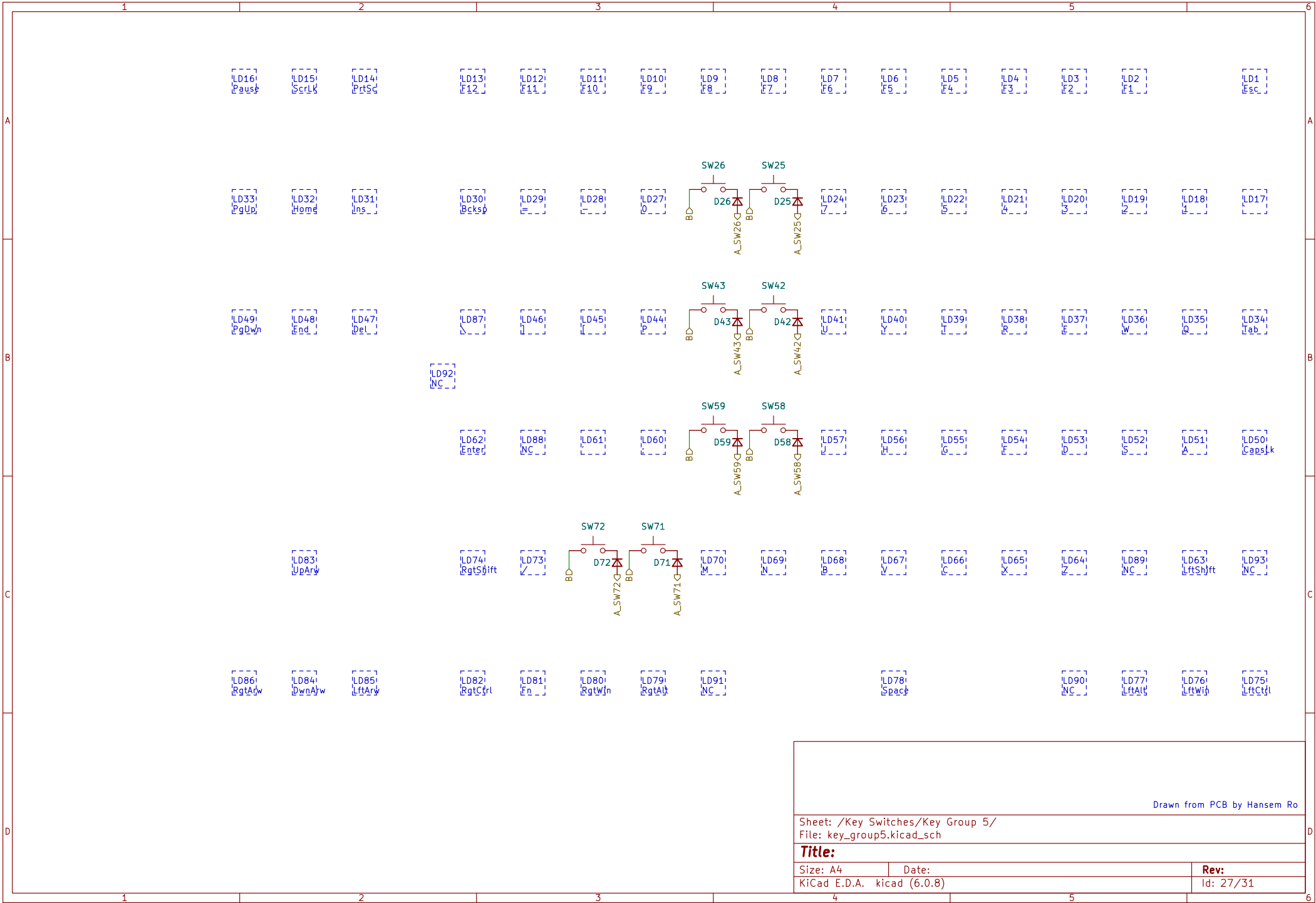
Size: A4

Date:

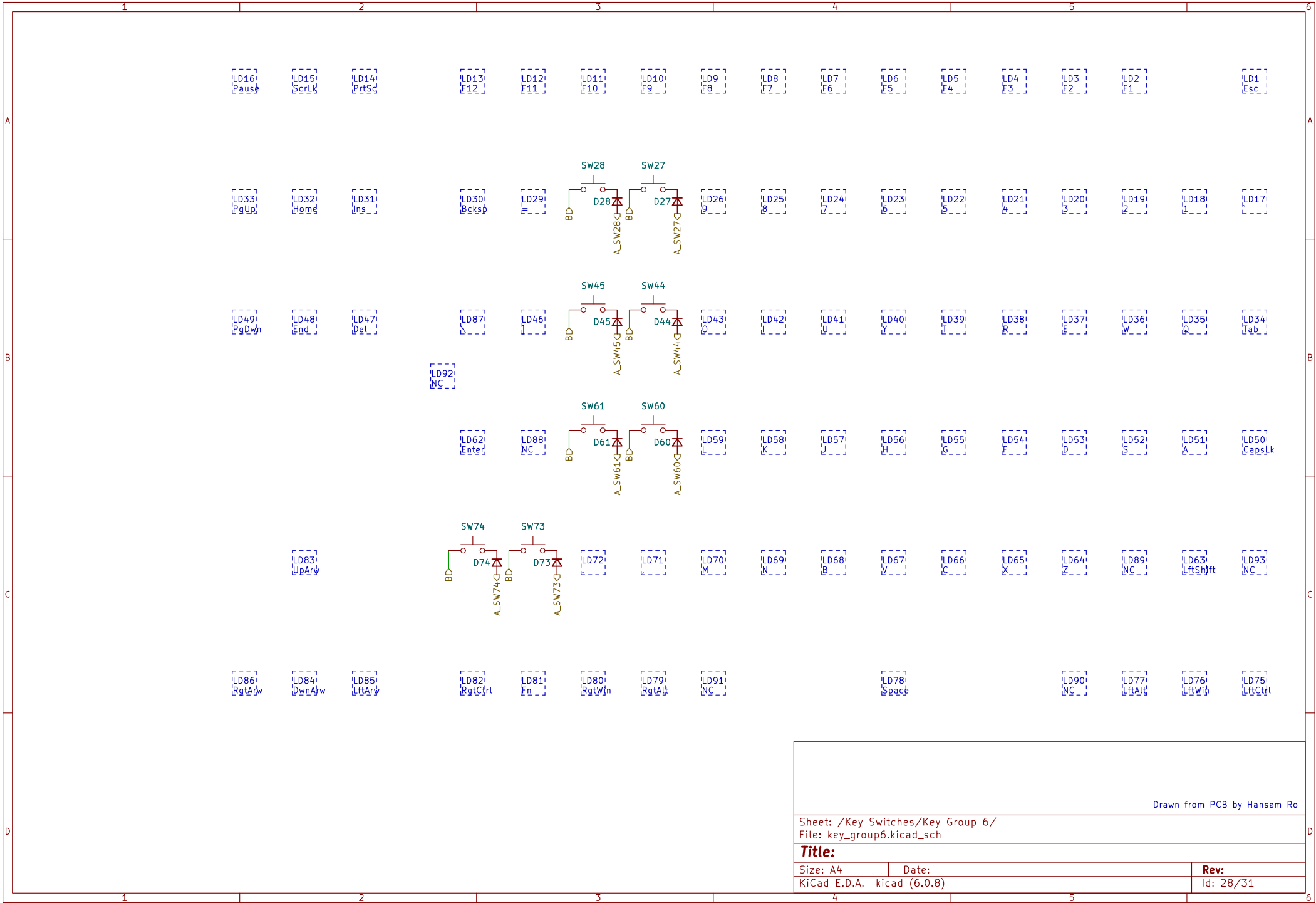
KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 25/31



Drawn from PCB by Hansem Ro		
Sheet: /Key Switches/Key Group 5/ File: key_group5.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.8)		Id: 27/31



Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 6/
File: key_group6.kicad_sch

Title:

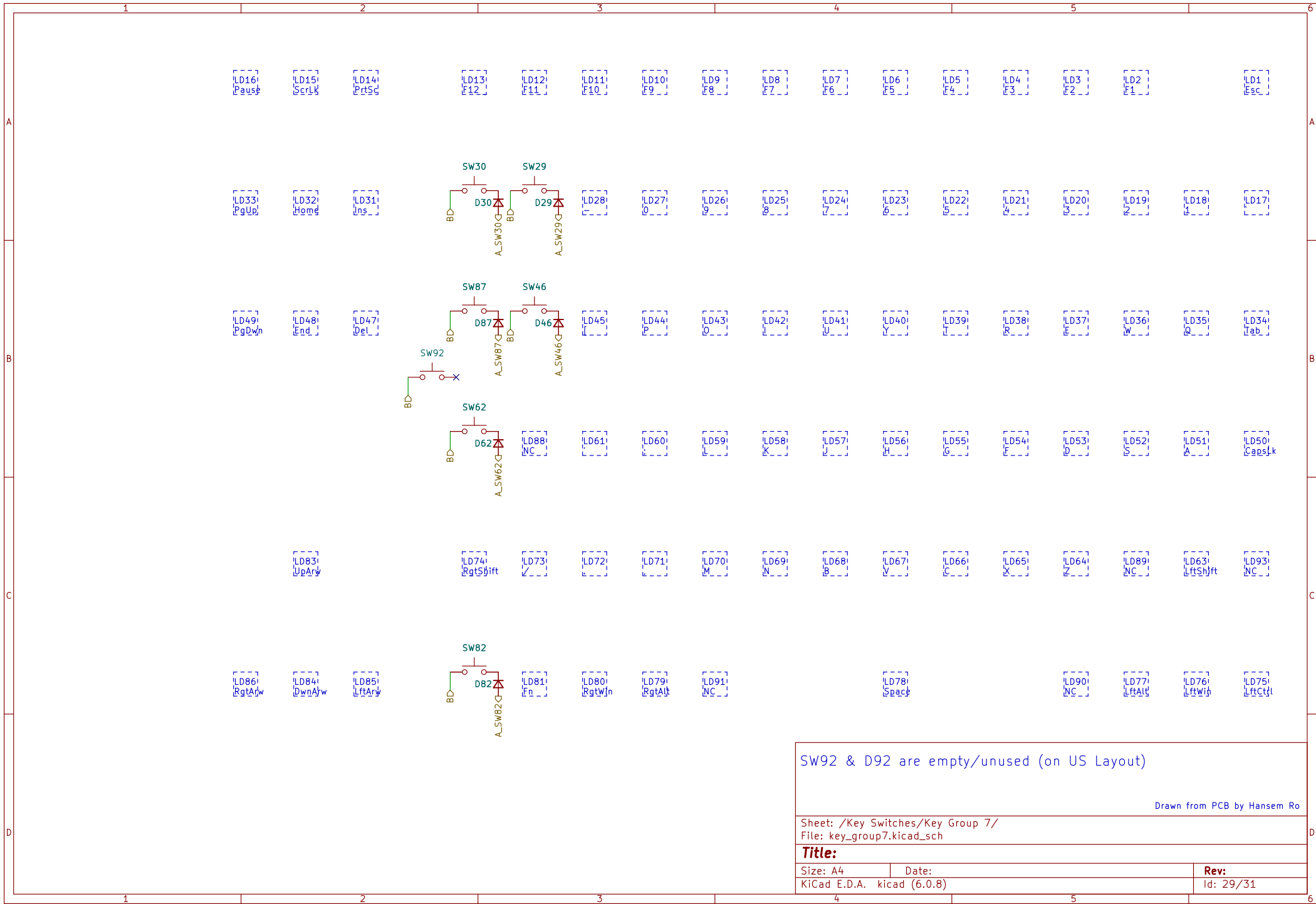
Size: A4

Date:

KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 28/31



SW92 & D92 are empty/unused (on US Layout)

Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 7/
File: key_group7.kicad_sch

Title:

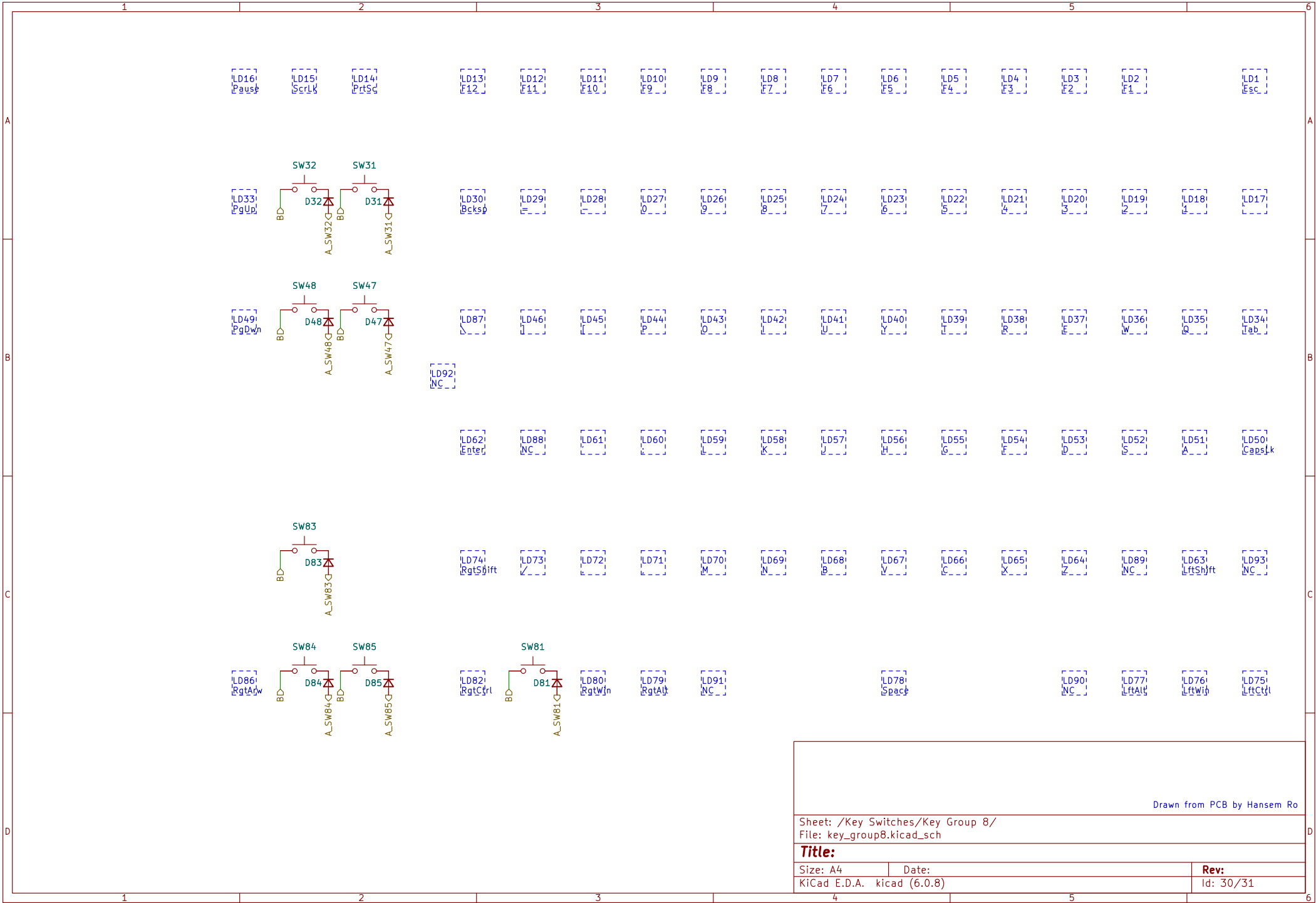
Size: A4

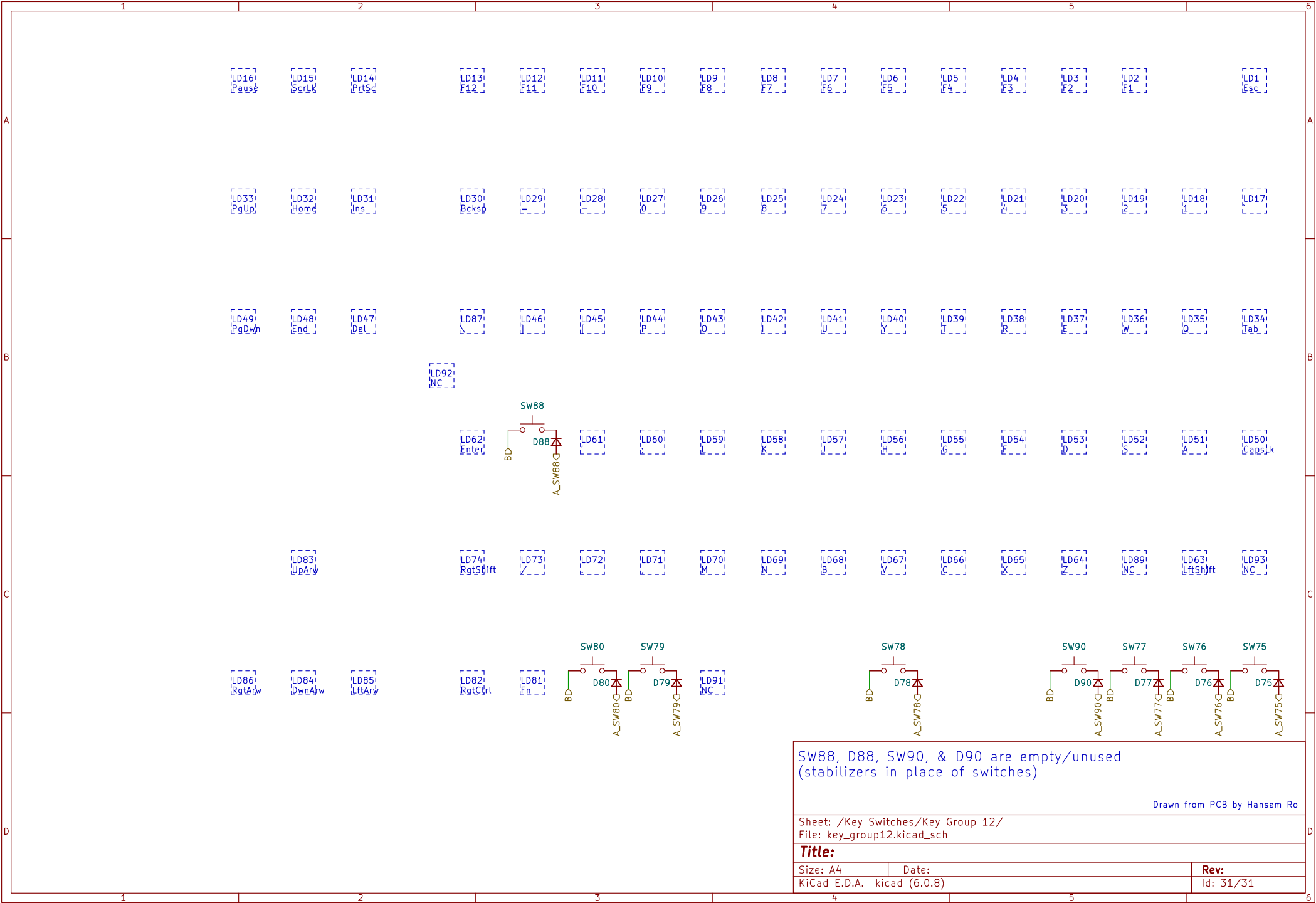
Date:

KiCad E.D.A. kicad (6.0.8)

Rev:

Id: 29/31





SW88, D88, SW90, & D90 are empty/unused
(stabilizers in place of switches)

Drawn from PCB by Hansem Ro

Sheet: /Key Switches/Key Group 12/
File: key_group12.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. kicad (6.0.8)

Id: 31/31