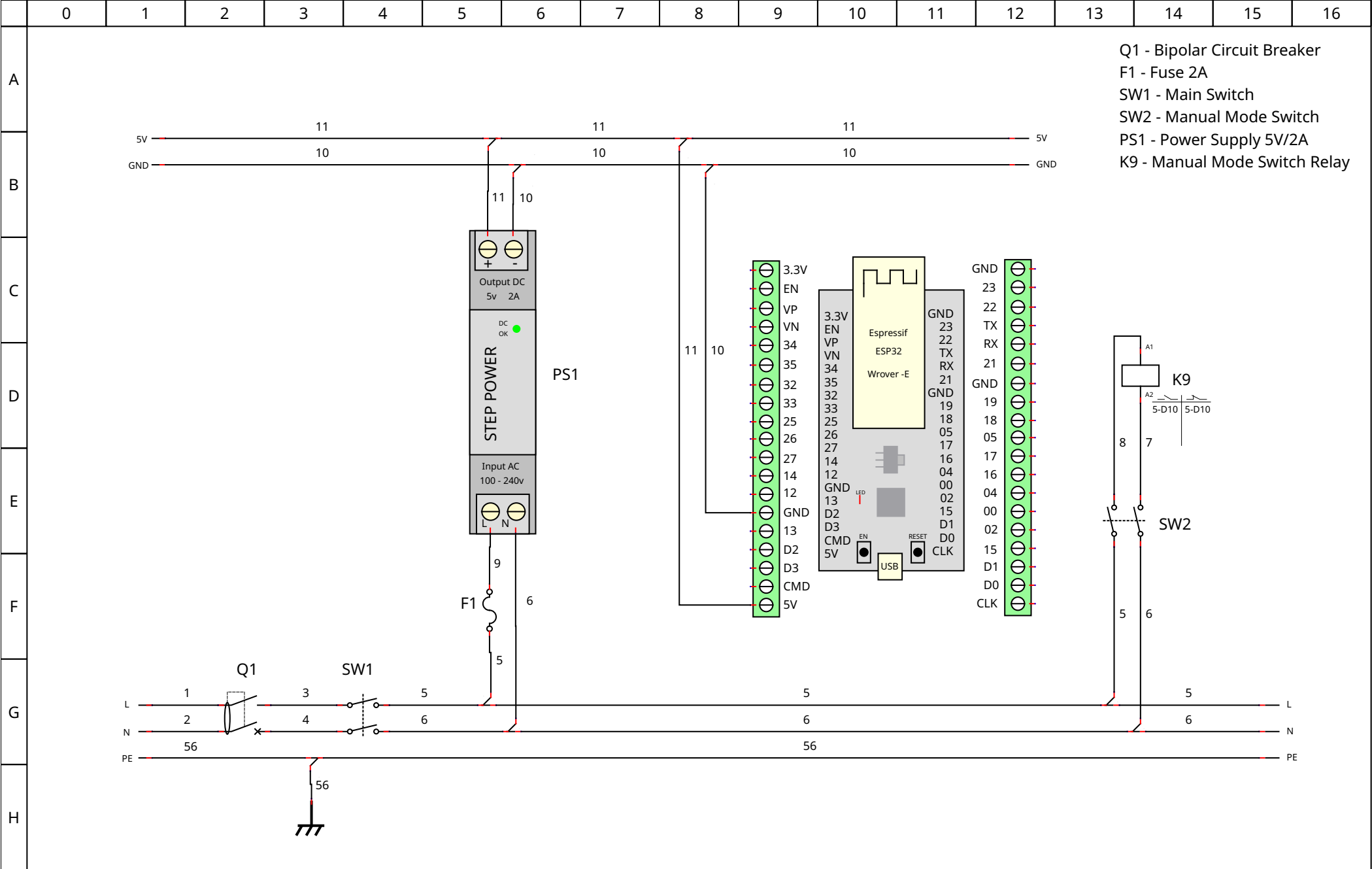
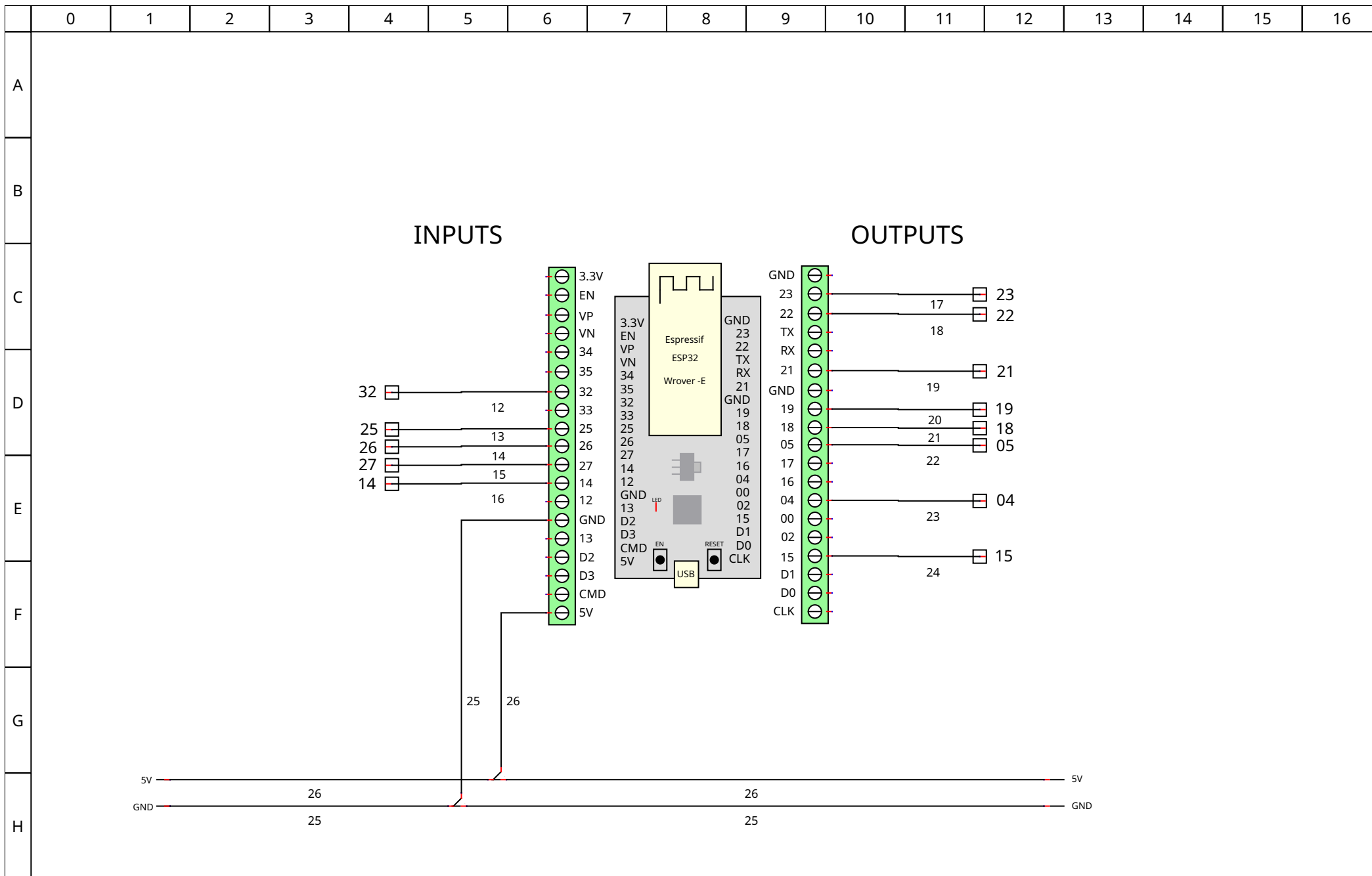
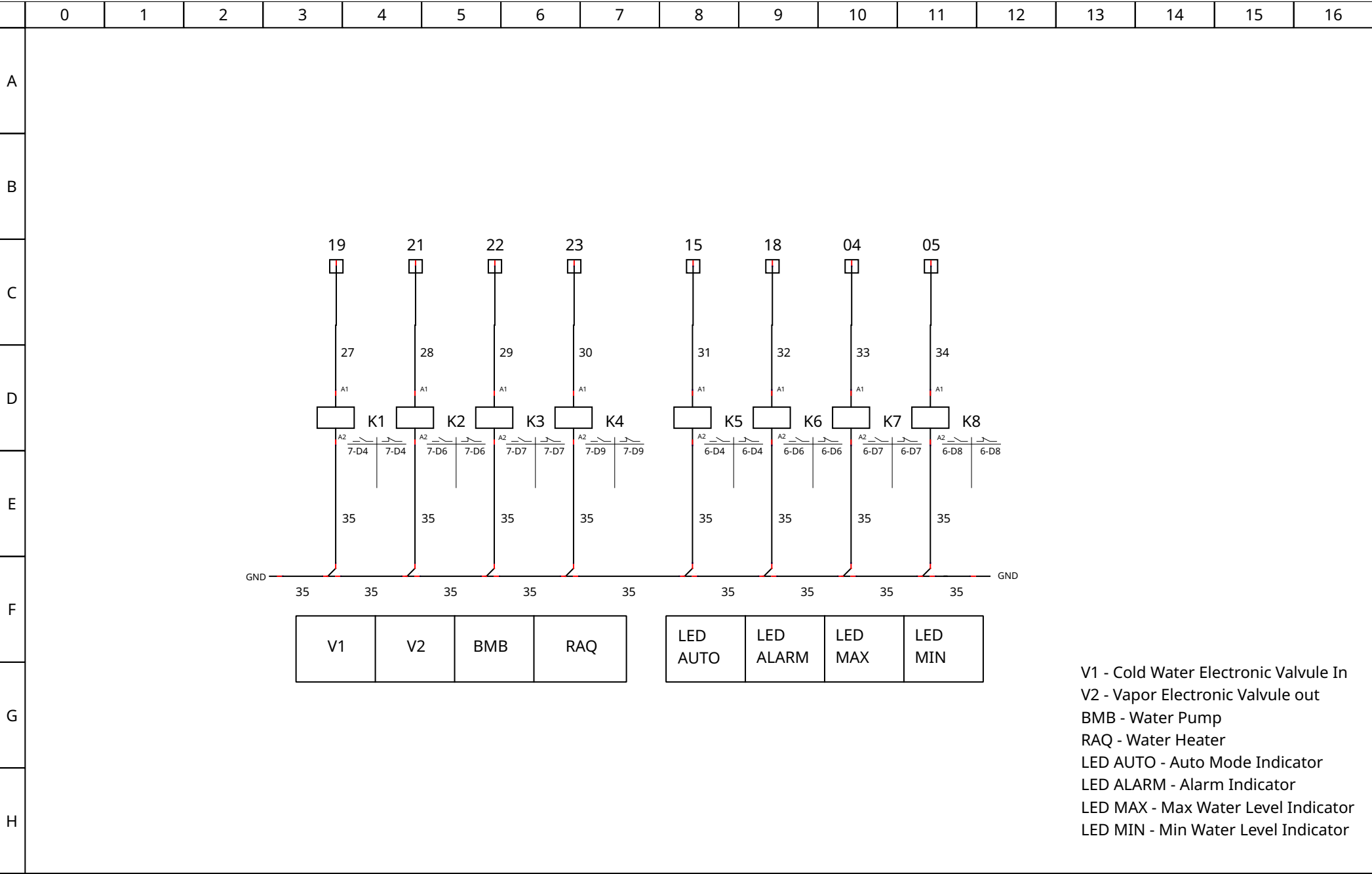
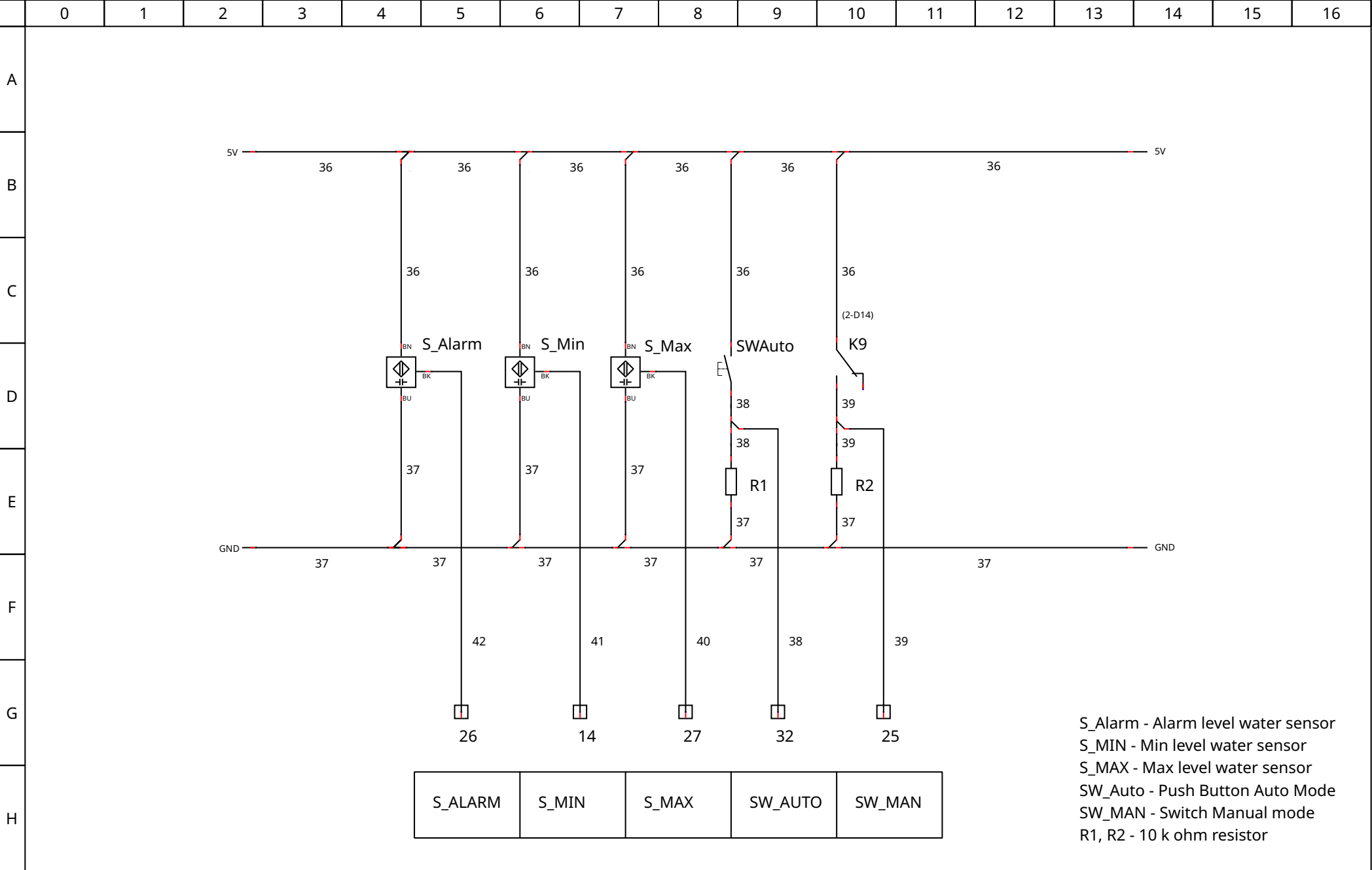


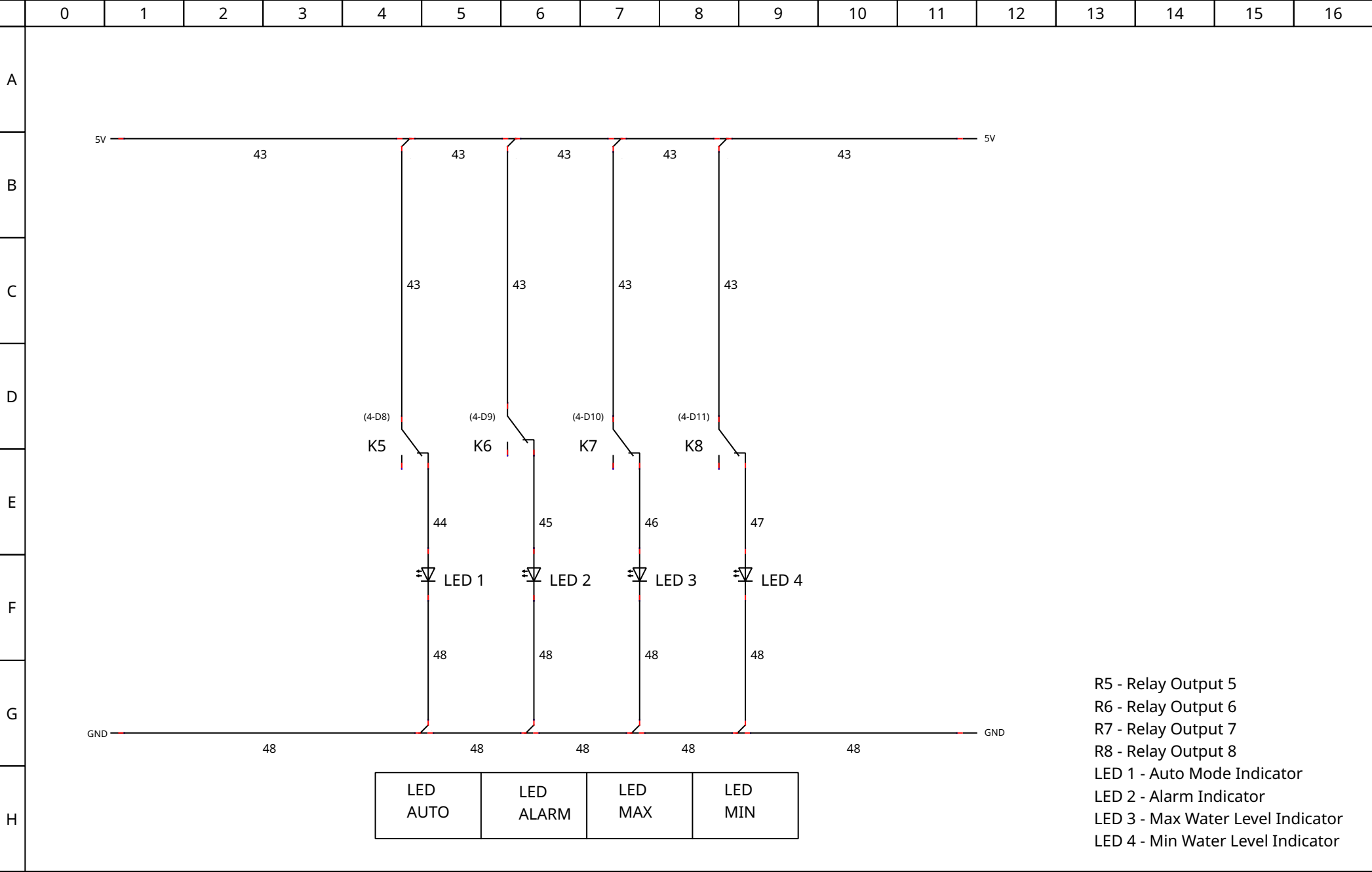
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A	<div><div><div><div>I</div><div>P</div><div>P</div></div><div>Instituto Politécnico Portalegre</div></div><div><div><div>P</div></div><div>POLITÉCNICO DE PORTALEGRE</div><div>Escola Superior de Tecnologia e Gestão</div></div></div> <h1>Intelligent Destiller</h1> <div><div><div><div>DOCENTE: Sérgio Correia</div><div>DISCENTES: Sérgio Carmo</div><div>N.º 19749</div></div></div></div>																
B																	
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Author: Sérgio Carmo				Cover								File:					
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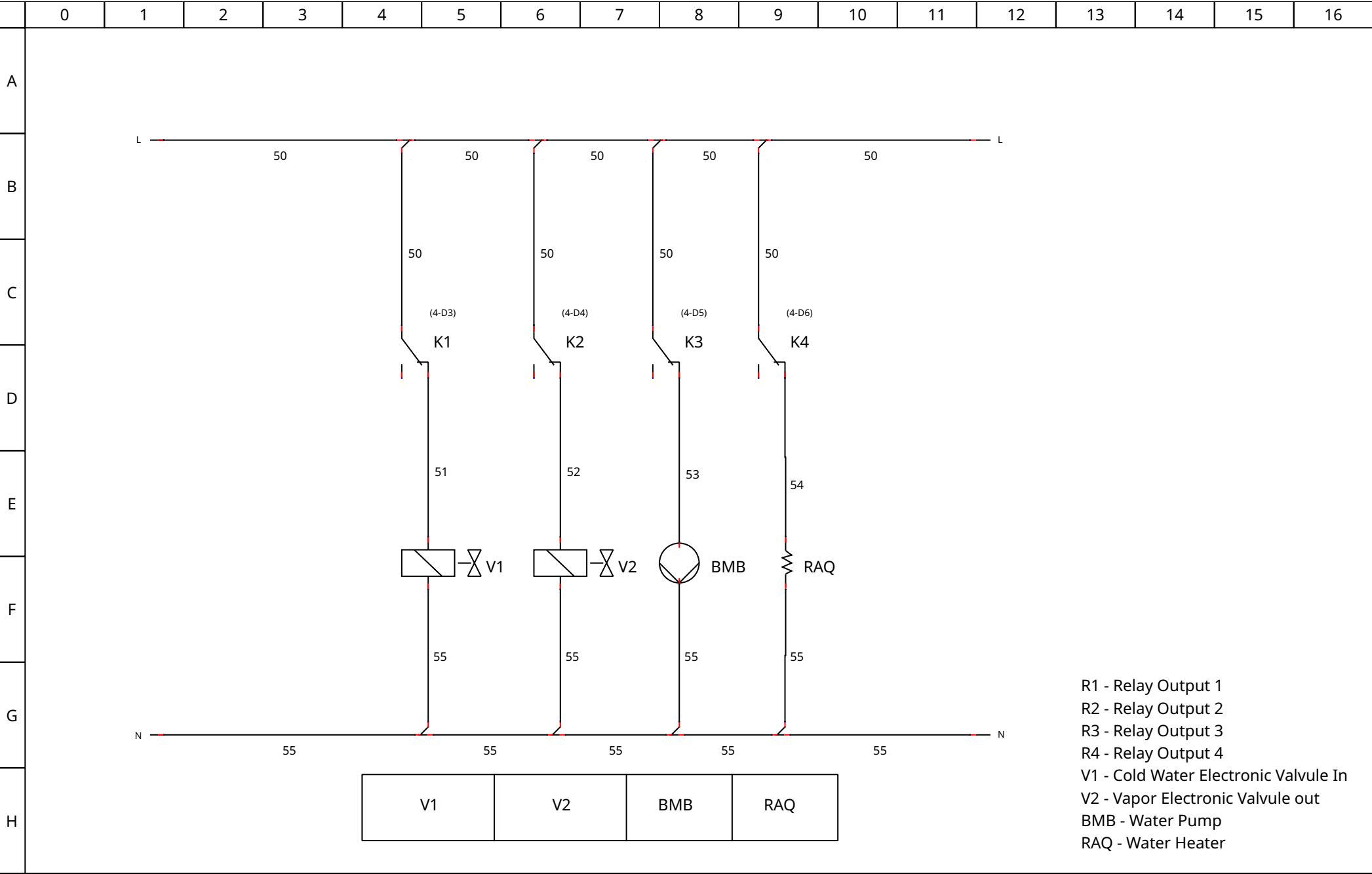












R1 - Relay Output 1
R2 - Relay Output 2
R3 - Relay Output 3
R4 - Relay Output 4
V1 - Cold Water Electronic Valvule In
V2 - Vapor Electronic Valvule out
BMB - Water Pump
RAQ - Water Heater

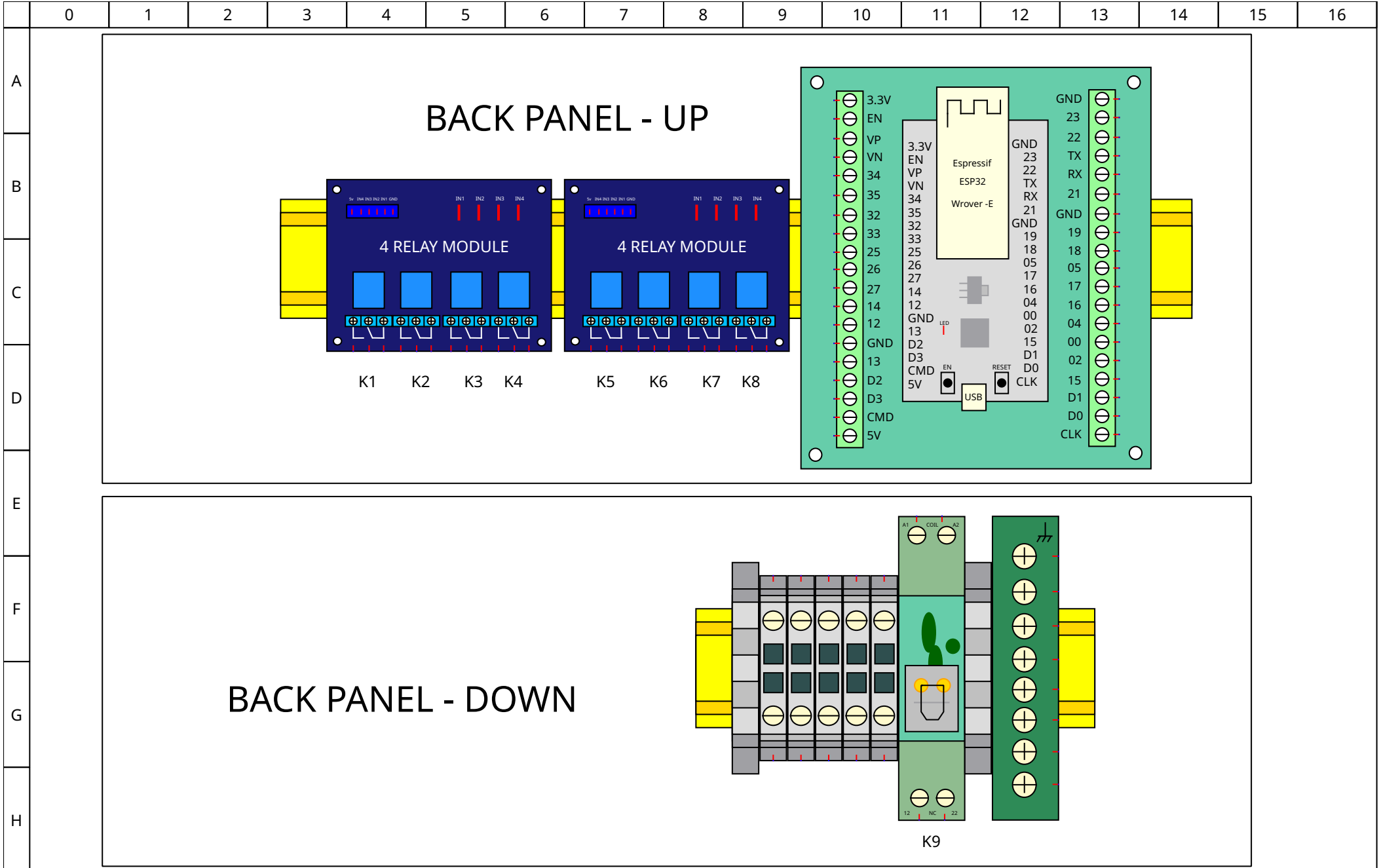
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The front panel is a light blue rectangular area containing three main sections:

- POWER Section:** Located at the top, it features a green digital display showing '1' over '0'.
- STEAM Section:** Located in the middle, it includes an orange indicator light labeled 'AUTO IND', a green indicator light labeled 'AUTO SW', a green digital display showing '1' over '0' labeled 'MANUAL', and the text 'STEAM' below them.
- GENERATOR Section:** Located at the bottom, it features a level gauge with blue markings, three indicator lights labeled 'MAX' (green), 'MIN' (orange), and 'ALARM' (red), and the text 'LEVEL' and 'GENERATOR' below them.

The side panel is a grey rectangular area containing the following components:

- STEP POWER Section:** A central vertical section with a green indicator light labeled 'DC OK' and the text 'STEP POWER'.
- Output DC Section:** Located at the top, it features a green digital display showing '1' over '0' and the text 'Output DC 5v 2A'.
- Input AC Section:** Located at the bottom, it features a green digital display showing '1' over '0' and the text 'Input AC 100 - 240v'.
- Terminal Blocks:** On the right side, there are two terminal blocks labeled 'N' and '1-ON'.
- Labels:** The labels 'F1' and 'PS1' are located below the central section, and 'Q1' is located below the right terminal block.



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A																	
B																	
C	Scheme	Symbol	Quantity	Description						Manufacturer		Ref. Manufacturer	Supplier	Ref. Supplier			
			1	Circuit Breaker						Schneider		iDPN N C 16A					
			1	Main Switch With Built-in 240V Neon Indicator													
			1	Bus Power Supply 5V						Phoenix Contact							
D			1	Fuse													
			1	Esp32 Wrover-E						EspressIf							
			1	Esp32 Expansion Board								616					
			2	4 Relay Module								2PH63083A					
E			3	Liquid Proximity Sensor													
			1	Push Button													
			1	240V Relay													
			2	10k ohm Resistor													
F			4	5V LED Indicator													
			2	240V Water Valve						M.M		B297DVE					
			1	240V Water Pump						Gorman Rupp Industries							
			1	240V Water Heater													
G			1	Push Switch Button With Built-in 240V Neon Indicator													
			29	Bus Connector													
			1	Bus Connector 8 Outputs													
			4	Bus Holder													
H																	