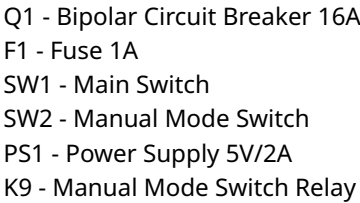
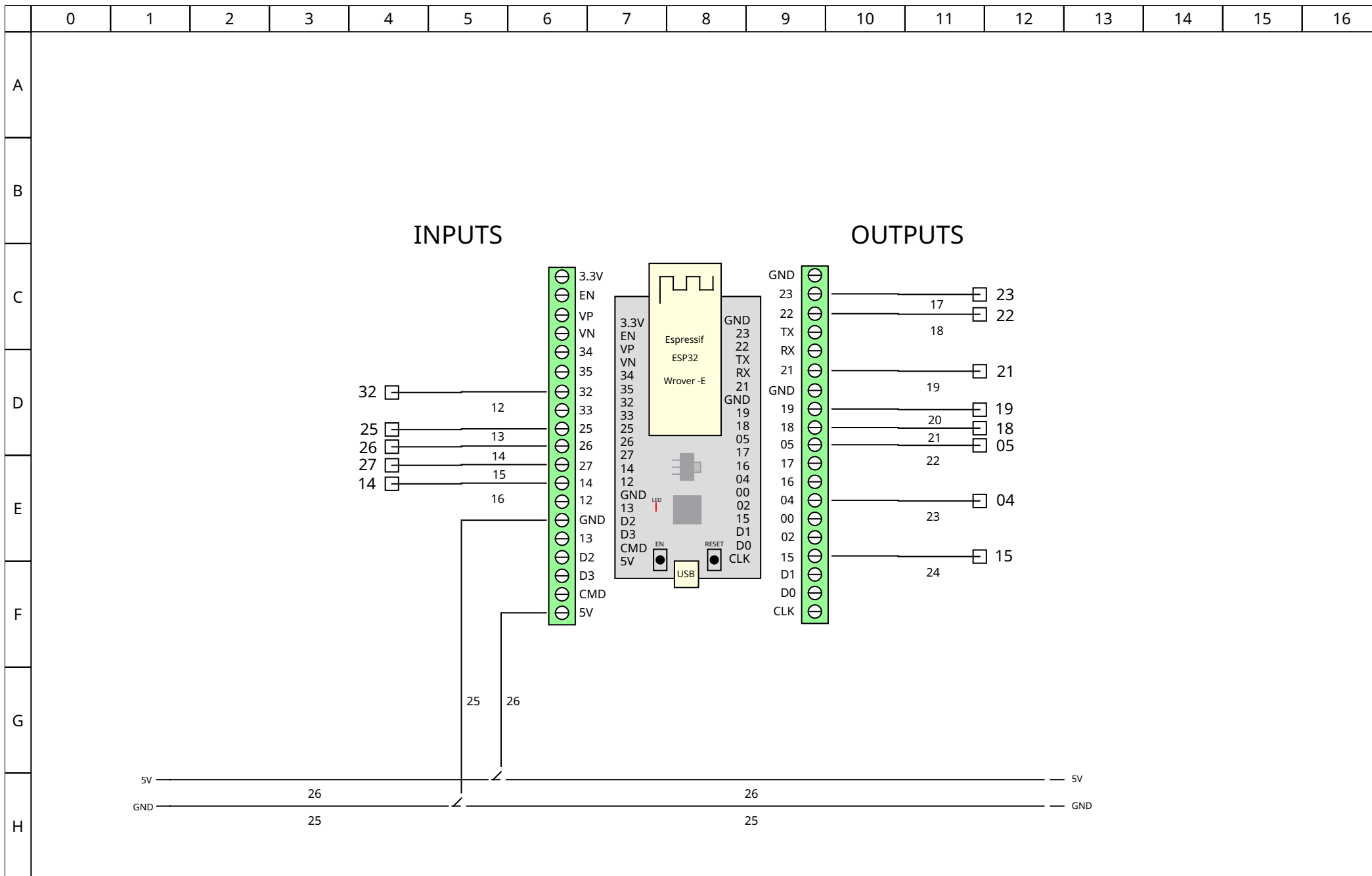
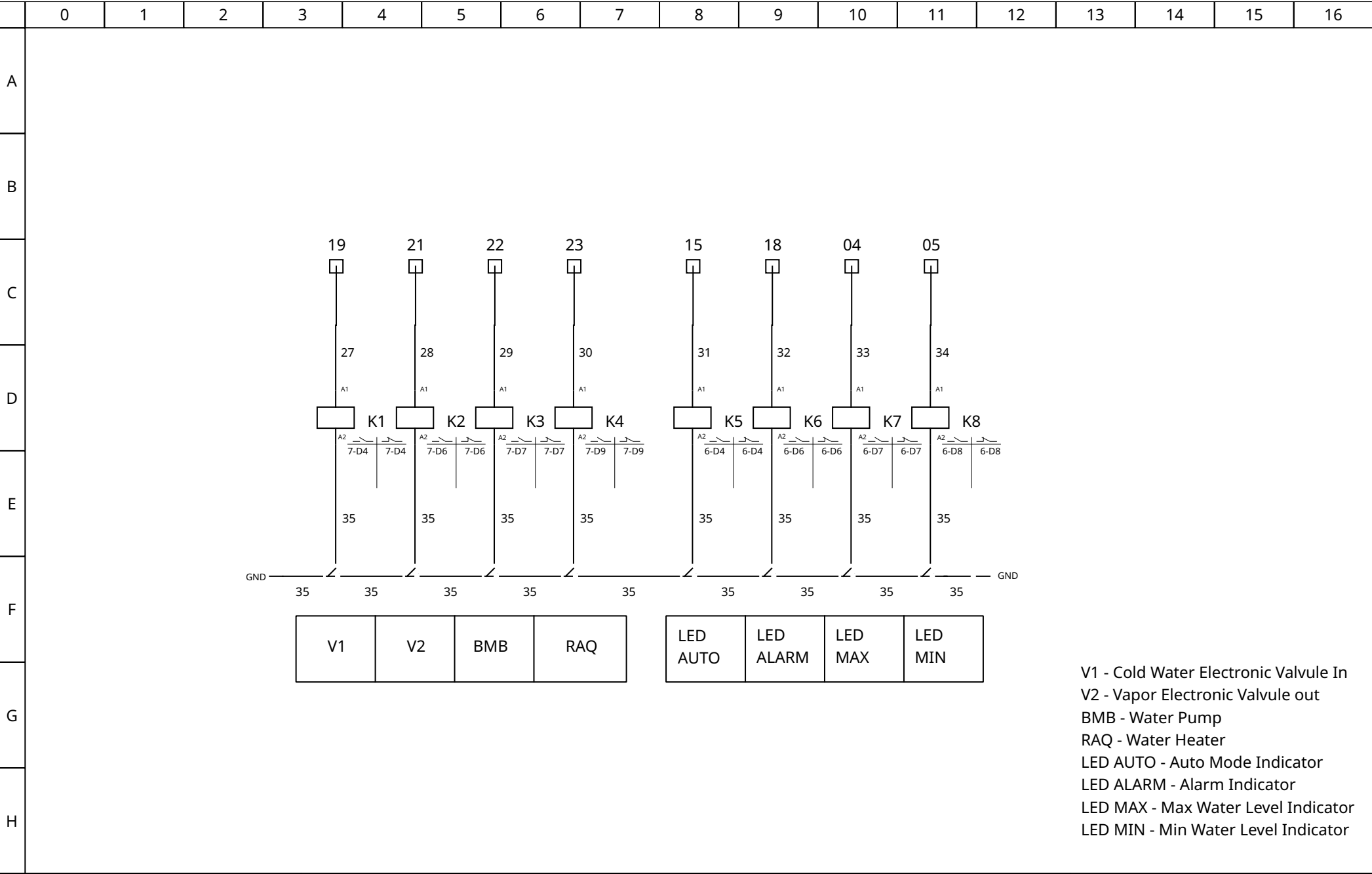


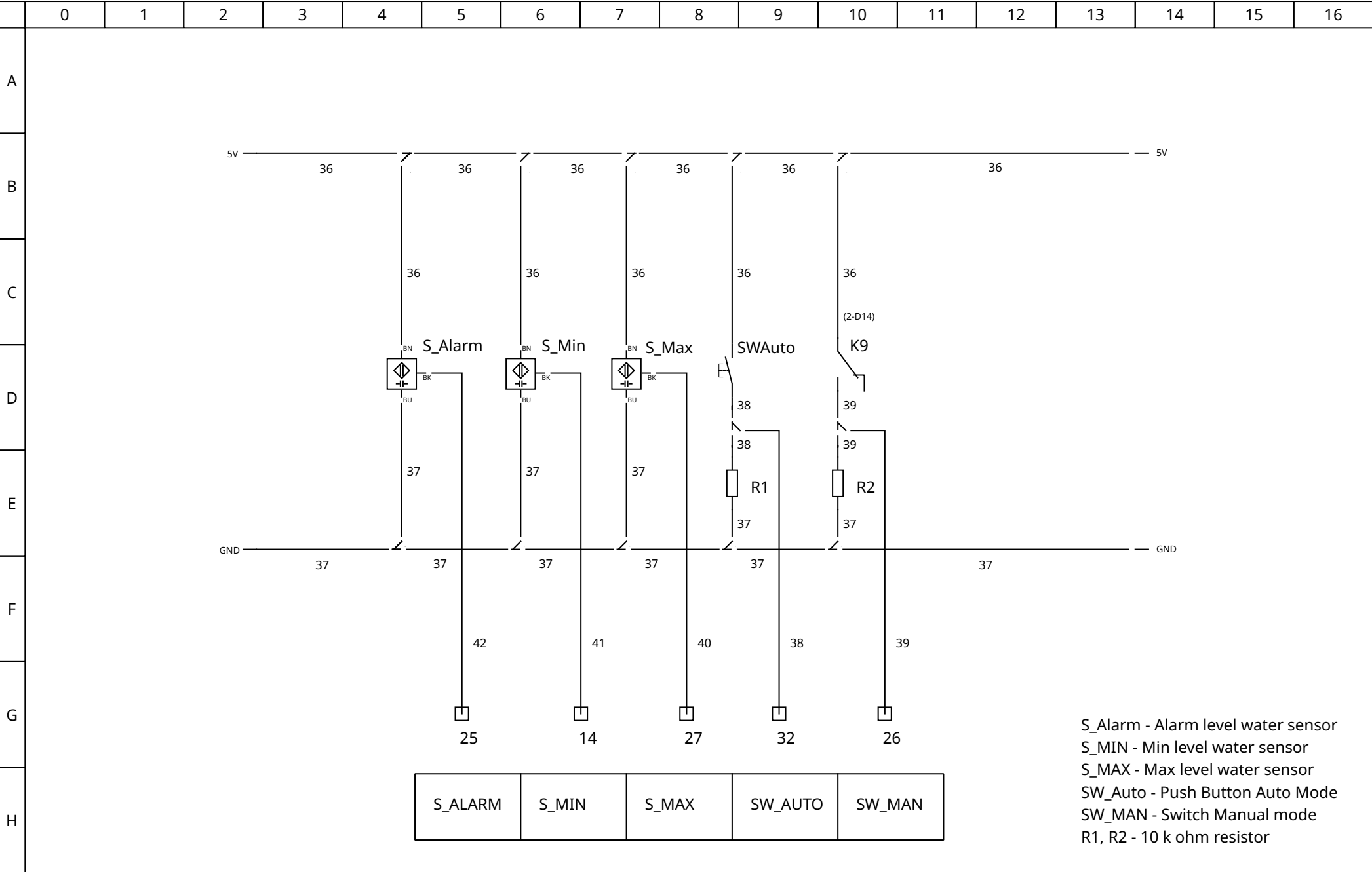
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Author: Sérgio Carmo				Cover								File:					
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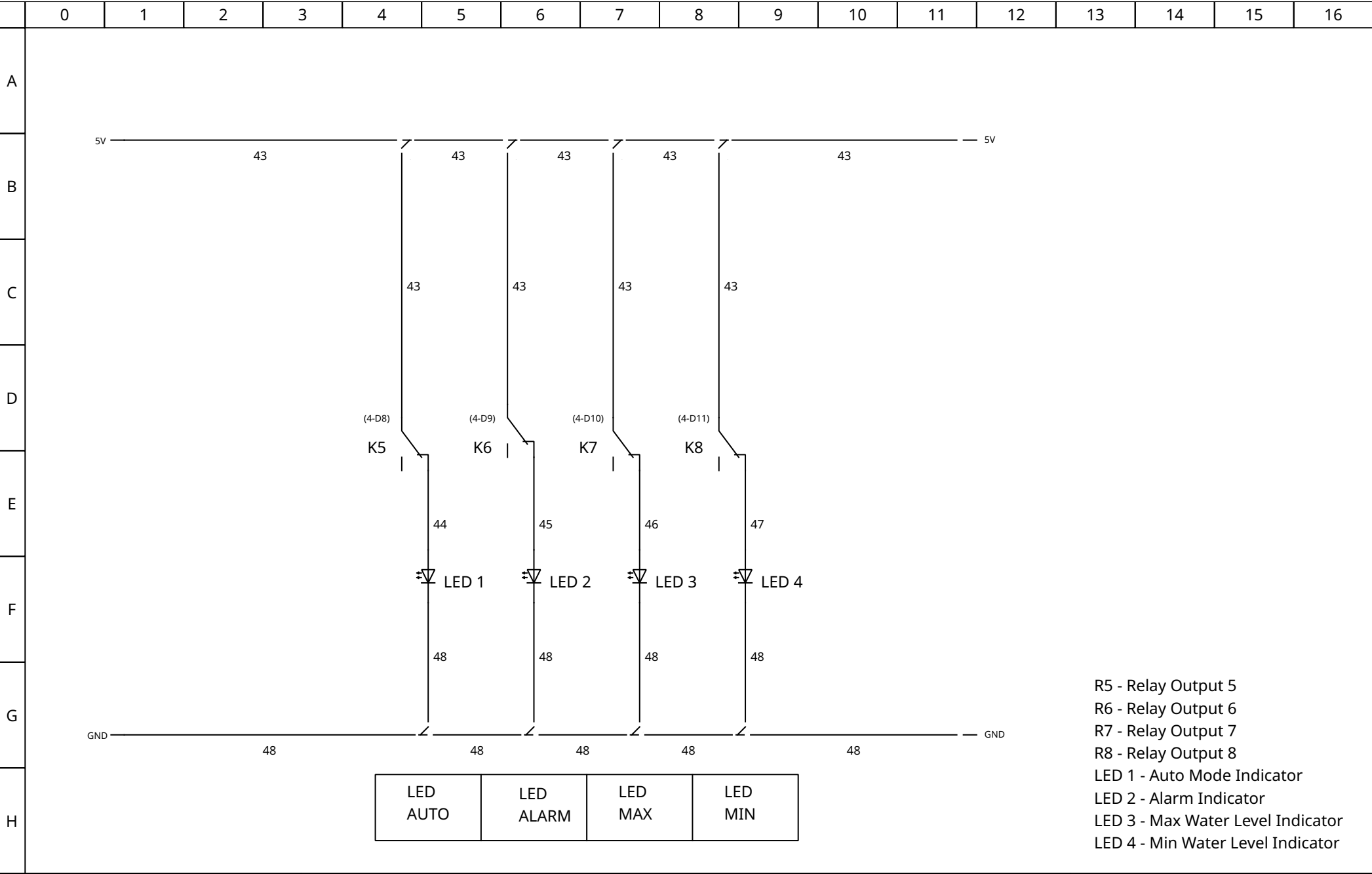


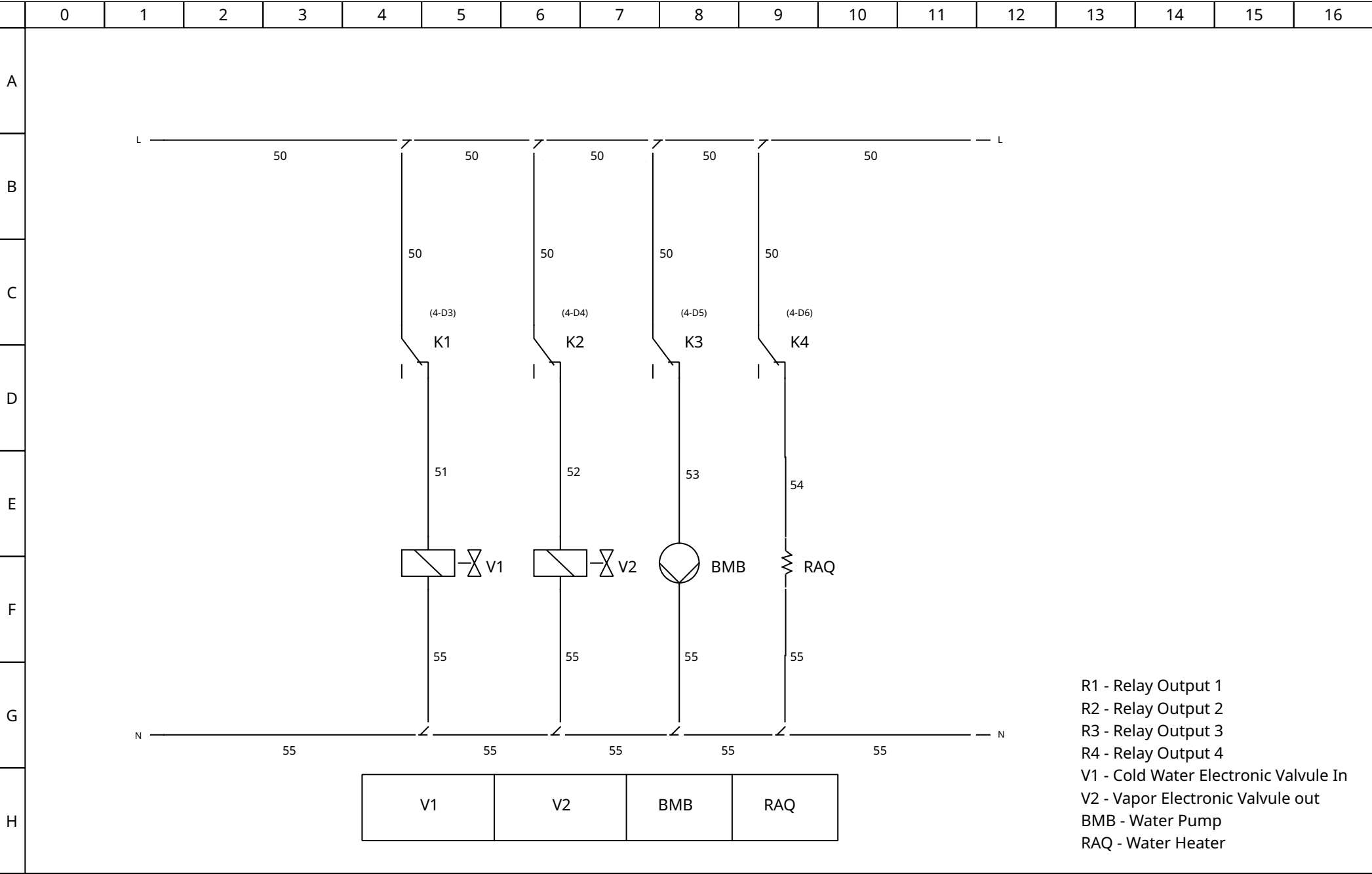




V1 - Cold Water Electronic Valvule In
V2 - Vapor Electronic Valvule out
BMB - Water Pump
RAQ - Water Heater
LED AUTO - Auto Mode Indicator
LED ALARM - Alarm Indicator
LED MAX - Max Water Level Indicator
LED MIN - Min Water Level Indicator







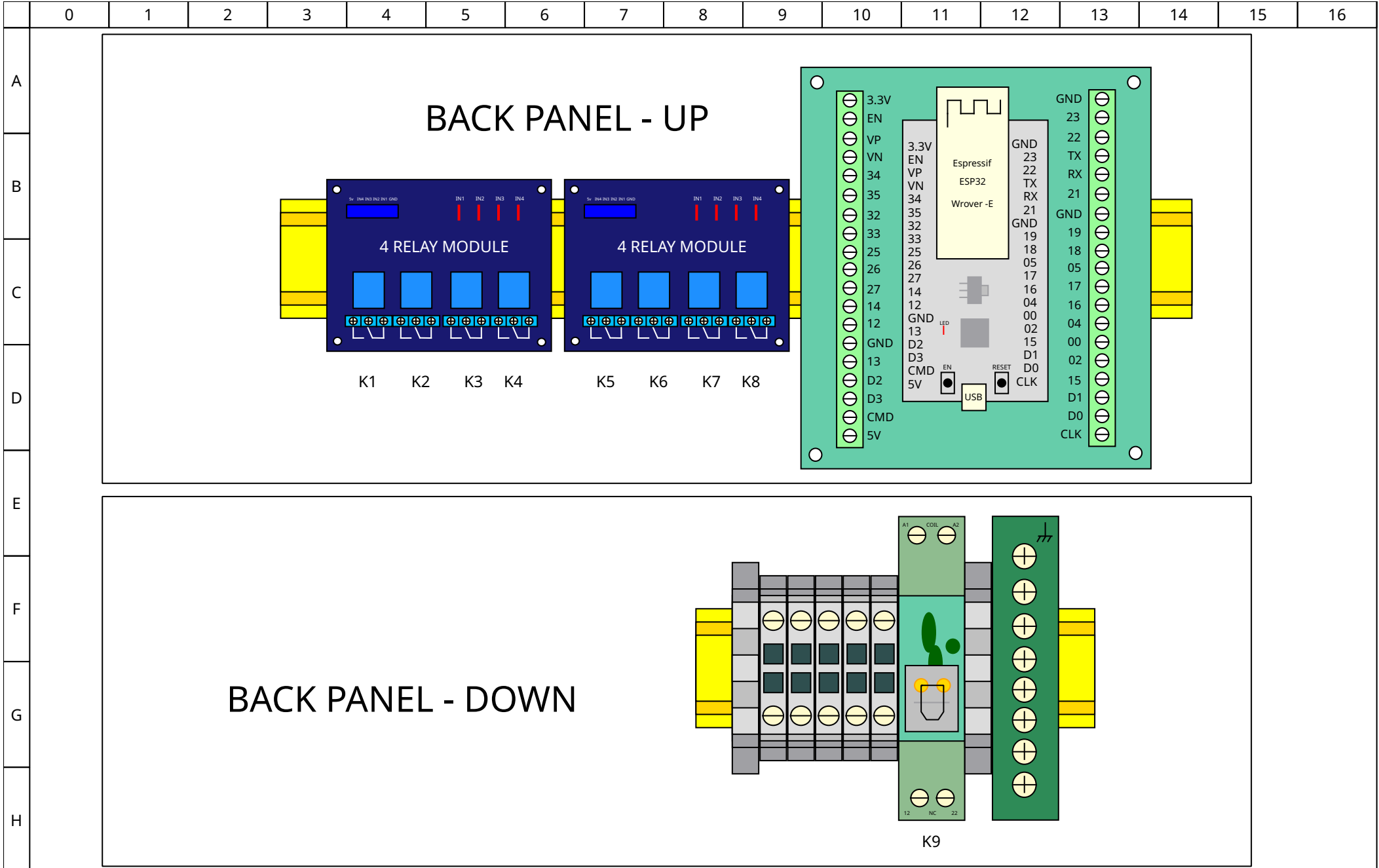
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The front panel is a light blue rectangular area containing three main sections:

- POWER:** A green digital display showing '1' over '0'.
- STEAM:** A section with two indicator lights (one orange, one green) and a green digital display showing '1' over '0'. Below the lights are labels 'AUTO IND' and 'AUTO SW'. Below the display is the label 'MANUAL'.
- GENERATOR:** A section with a vertical level indicator (a U-shaped tube with blue liquid) and three indicator lights (green, orange, red) labeled 'MAX', 'MIN', and 'ALARM'. Below the level indicator is the label 'LEVEL'.

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

- STEP POWER:** A central vertical section with a green 'DC OK' indicator light and a green '1-ON' indicator light.
- Output DC:** A section with a green digital display showing '1' over '0' and a green '1-ON' indicator light.
- Input AC:** A section with a green digital display showing '1' over '0' and a green '1-ON' indicator light.
- Terminal Blocks:** Two terminal blocks on the right side, labeled 'N' and 'L', with yellow and blue wiring.



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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B																	
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F																	
G																	
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Quantity	Description	Manufacturer	Ref. Manufacturer	Supplier	Ref. Supplier
1	Circuit Breaker 16A	Schneider Eletric	iDPN N C 16A	se.com	A9N21547
1	Main Switch With Built-in 240V Neon Indicator				
1	STEP-PS/ 1AC/ 5DC/2 - Power supply unit	Phoenix Contact	2320513	Mouser.com	651-2320513
1	DIN Rail Terminal Blocks UK 5-HESI N (Fuse 1A)	Phoenix Contact	651-3000539	Mouser.com	3000539
1	Esp32-Wrover-E	Espressif	ESP32_DevKitc_V4	Mouser.com	356-ESP32WRVE22864PC
1	Terminal Adapter for ESP_32 (38-pin)		616		
2	4-Channel 5V Relay Module	SAINSMART	2PH63083A		
3	Optical liquid level sensor	Cynergy3	OLS710D3SH	Mouser.com	285-OLS710D3SH
1	Push Button				
1	Relay 250V 2x2A	Phoenix Contact	2987972	Mouser.com	651-2987972
1	Relay base 300VAC 12A	Phoenix Contact	28 33 521	Mouser.com	651-2833521
2	10k ohm Resistor				
4	5V LED Indicator Red/Orange/Green (10mm)	Gebildet	E738A		
2	240V Water Valve 0-12 Bar	M&M	B297DVE		
1	240V Oscillating Pump	Gorman Rupp Industries	14825-669		
1	240V Water Heater				
1	Push Switch Button With Built-in 240V Neon Indicator				
29	DIN Rail Terminal Blocks SRL 3 (Bus Connector)	Weidmuller	2614930000	Mouser.com	470-2614930000
1	DIN Rail Connector 8 Outputs				
4	DIN Rail Terminal Blocks SRL 3	Weidmuller	2614930000	Mouser.com	470-2614930000