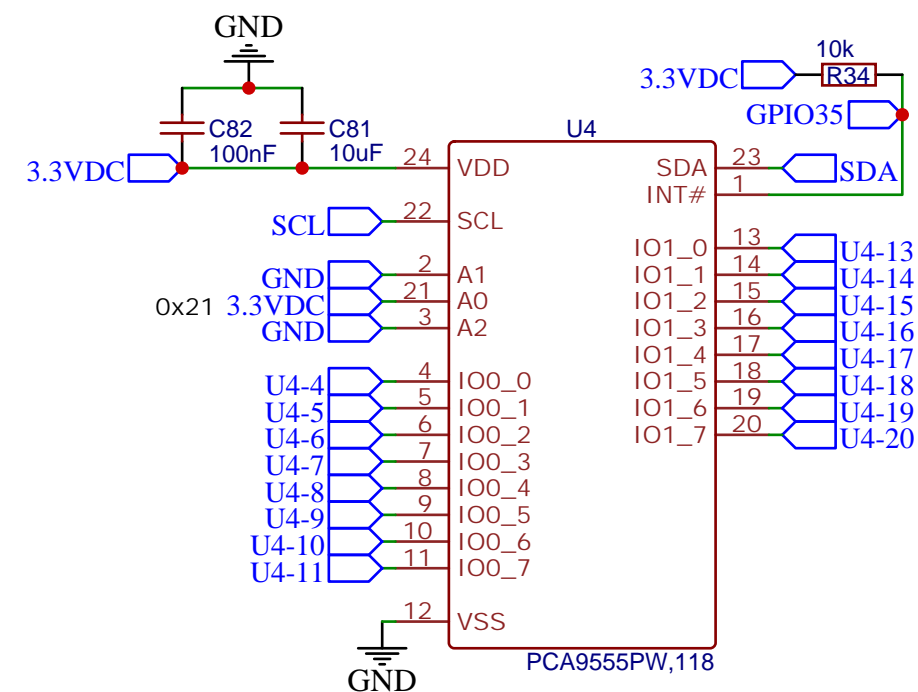
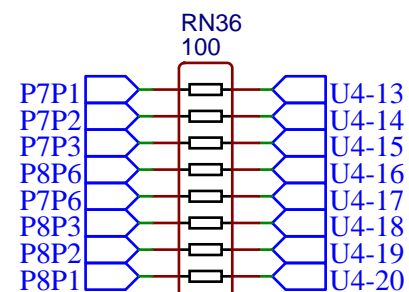
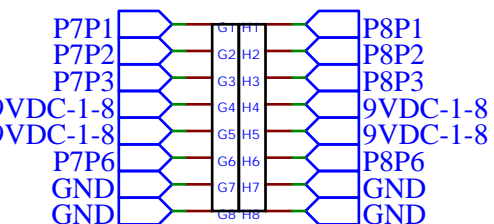
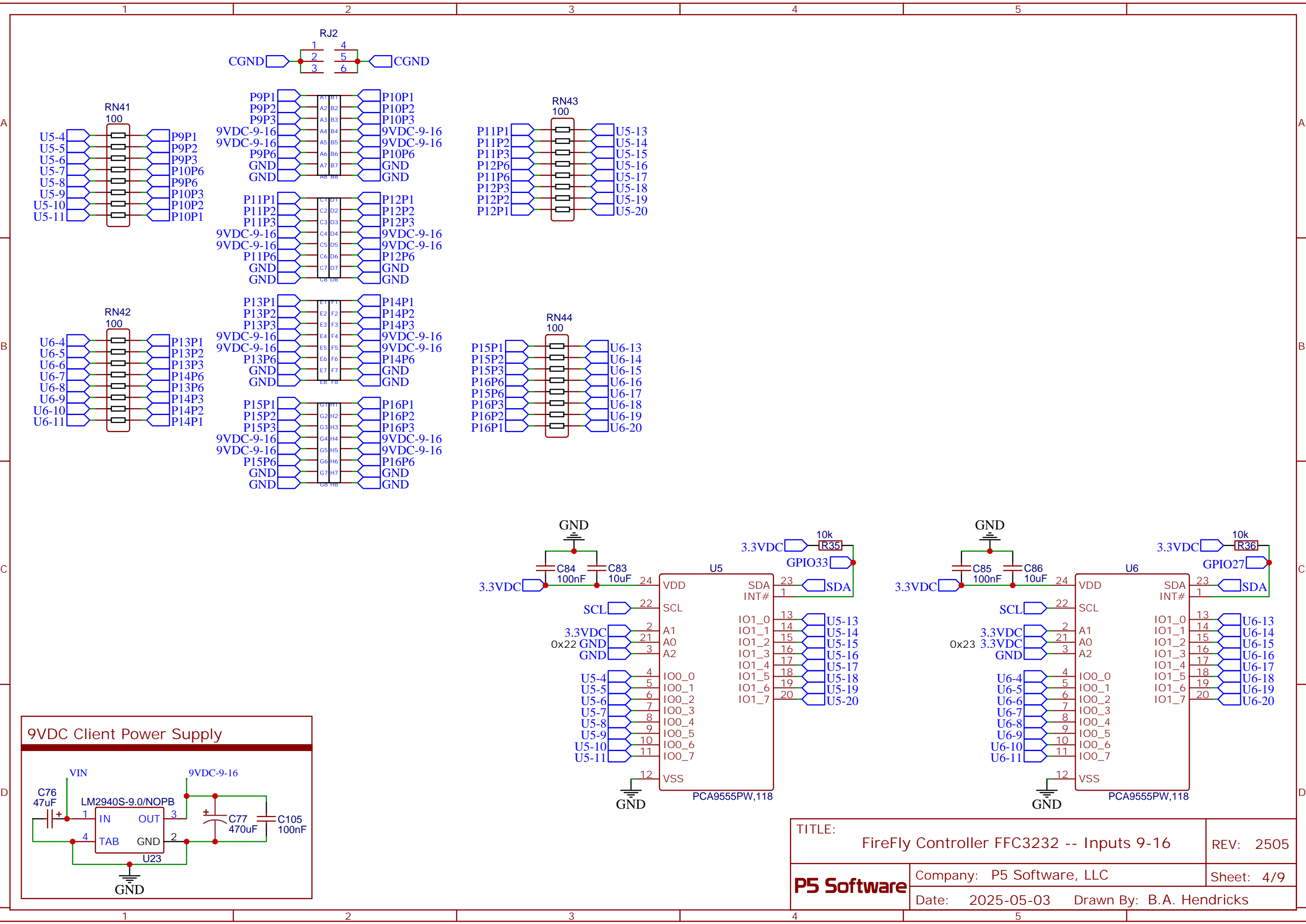
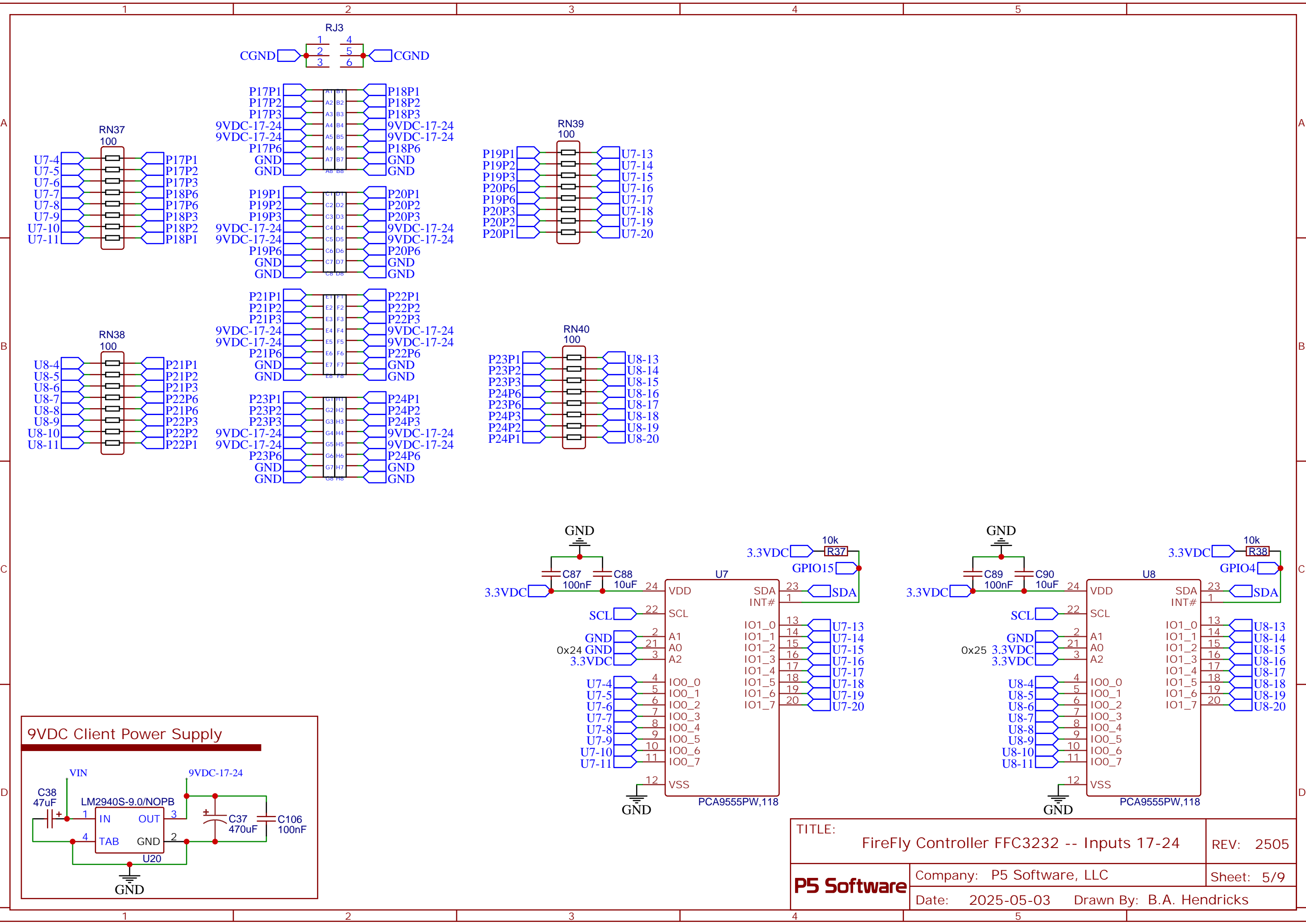
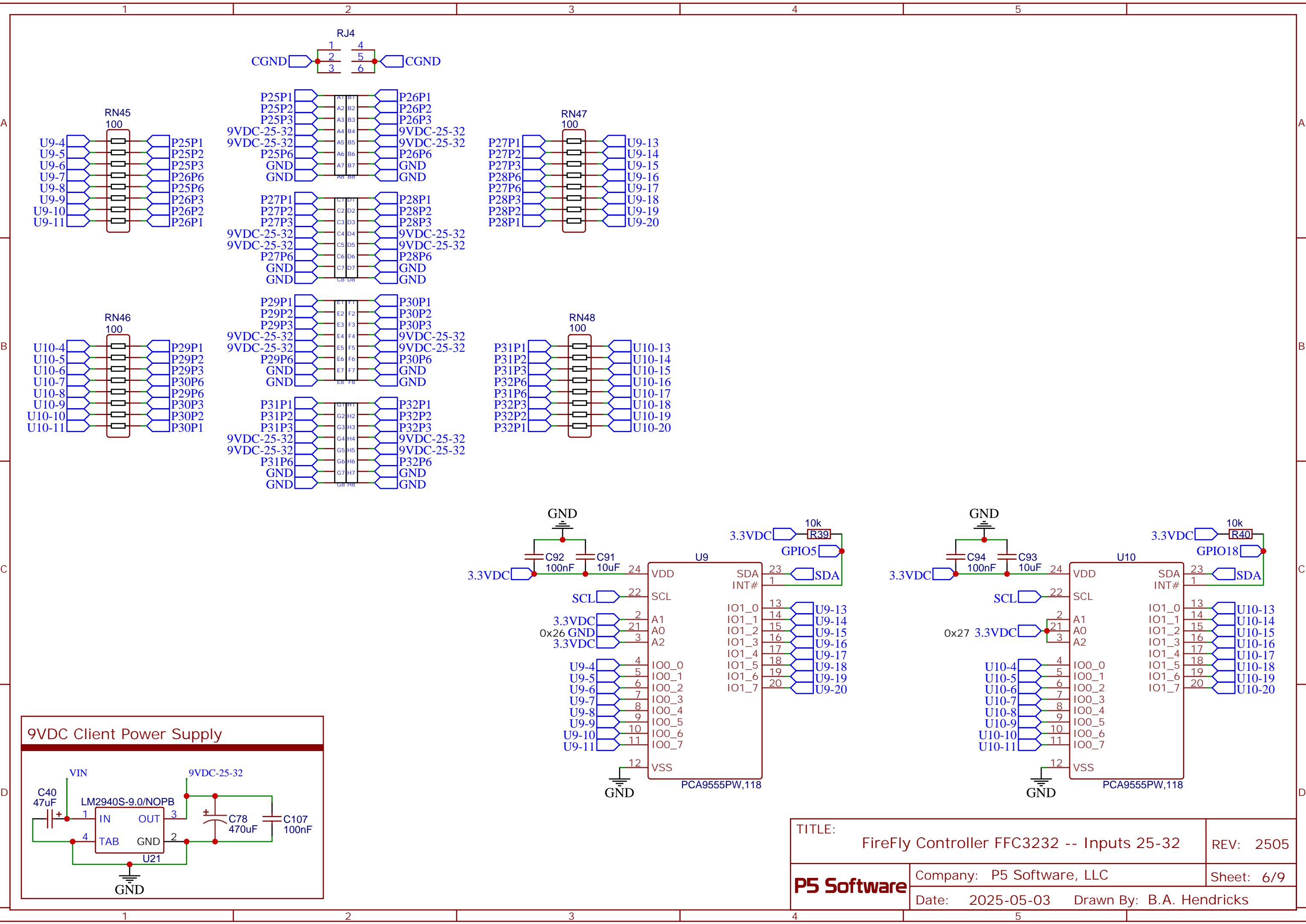


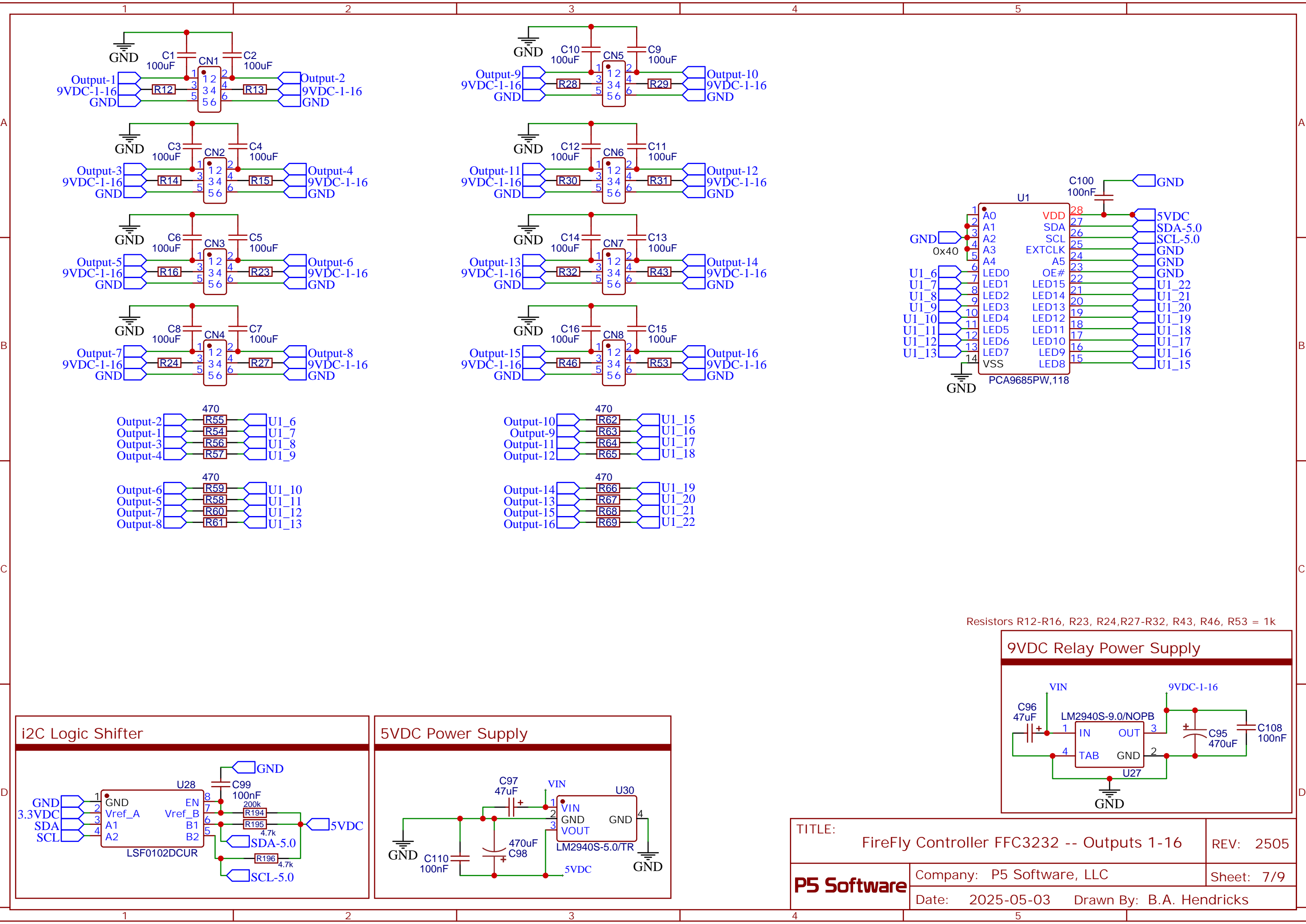
TITLE: FireFly Controller FFC3232 -- MCU		REV: 2505
P5 Software	Company: P5 Software, LLC	Sheet: 1/9
	Date: 2025-05-03	Drawn By: B.A. Hendricks





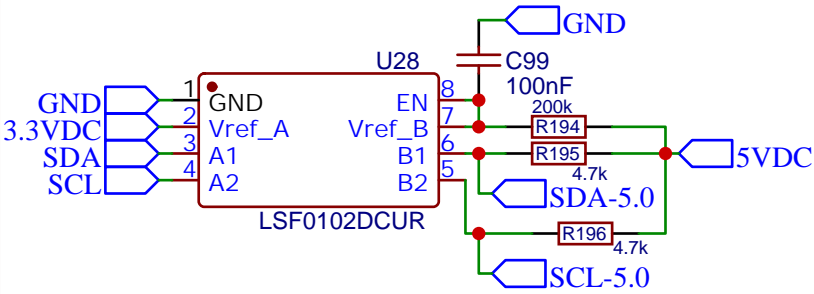




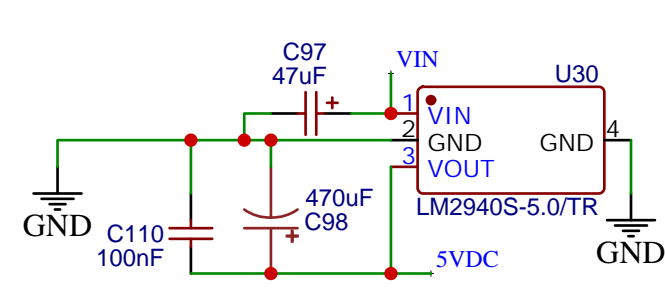


Resistors R12-R16, R23, R24,R27-R32, R43, R46, R53 = 1k

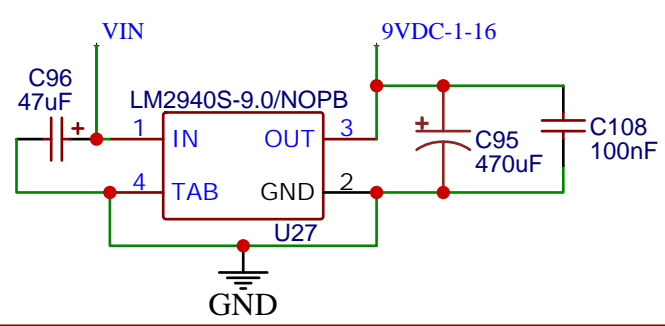
i2C Logic Shifter



5VDC Power Supply



9VDC Relay Power Supply



TITLE: FireFly Controller FFC3232 -- Outputs 1-16		REV: 2505
P5 Software	Company: P5 Software, LLC	Sheet: 7/9
	Date: 2025-05-03	Drawn By: B.A. Hendricks

Changes since 2211

- 1. OLED Display LED Button from GPIO32 to GPIO19
- 2. OLED Display LED from GPIO33 to GPIO2
- 3. U3 Interrupt from GPIO35 to GPIO34
- 4. U4 Interrupt from GPIO25 to GPIO35
- 5. U5 Interrupt from GPIO26 to GPIO33
- 6. U7 Interrupt from GPIO4 to GPIO15
- 7. U8 Interrupt from GPIO5 to GPIO4
- 8. U9 Interrupt from GPIO18 to GPIO5
- 9. U10 Interrupt from GPIO19 to GPIO18
- 10. U24 RSTn from 3.3VDC to GPIO26
- 11. U24 INTn from NC to GPIO32
- 12. U24 SCSn from GND to GPIO25
- 13. Multiple resistor and capacitor changes to correct Ethernet controller defects
- 14. U2 corrected address to 0x41 from 0x42
- 15. Changed port,channel definitions to have odd-numbered ports at the top and even-numbered ones at the bottom
- 16. Changed output ports definitions to have odd-numbered ports at the top and even-numbered ones at the bottom
- 17. Changed output resistor array to individual resistors due to EOL
- 18. Changed output capacitor to better smooth PWM output.

Addresses

- | | |
|------|---|
| 0x20 | Inputs Ports 1-4 |
| 0x21 | Inputs Ports 5-8 |
| 0x22 | Inputs Ports 9-12 |
| 0x23 | Inputs Ports 13-16 |
| 0x24 | Inputs Ports 17-20 |
| 0x25 | Inputs Ports 21-24 |
| 0x26 | Inputs Ports 25-28 |
| 0x27 | Inputs Ports 29-32 |
| | |
| 0x40 | Output Ports 1-16 |
| 0x41 | Output Ports 17-32 |
| 0x70 | Output All-Call |
| | |
| 0x48 | Temperature |
| 0x50 | EEPROM |
| 0x3C | OLED Display Header
(Check Display Pinout) |

TITLE: FireFly Controller FFC3232 -- Notes		REV: 2505
P5 Software	Company: P5 Software, LLC	Sheet: 9/9
	Date: 2025-05-03 Drawn By: B.A. Hendricks	