

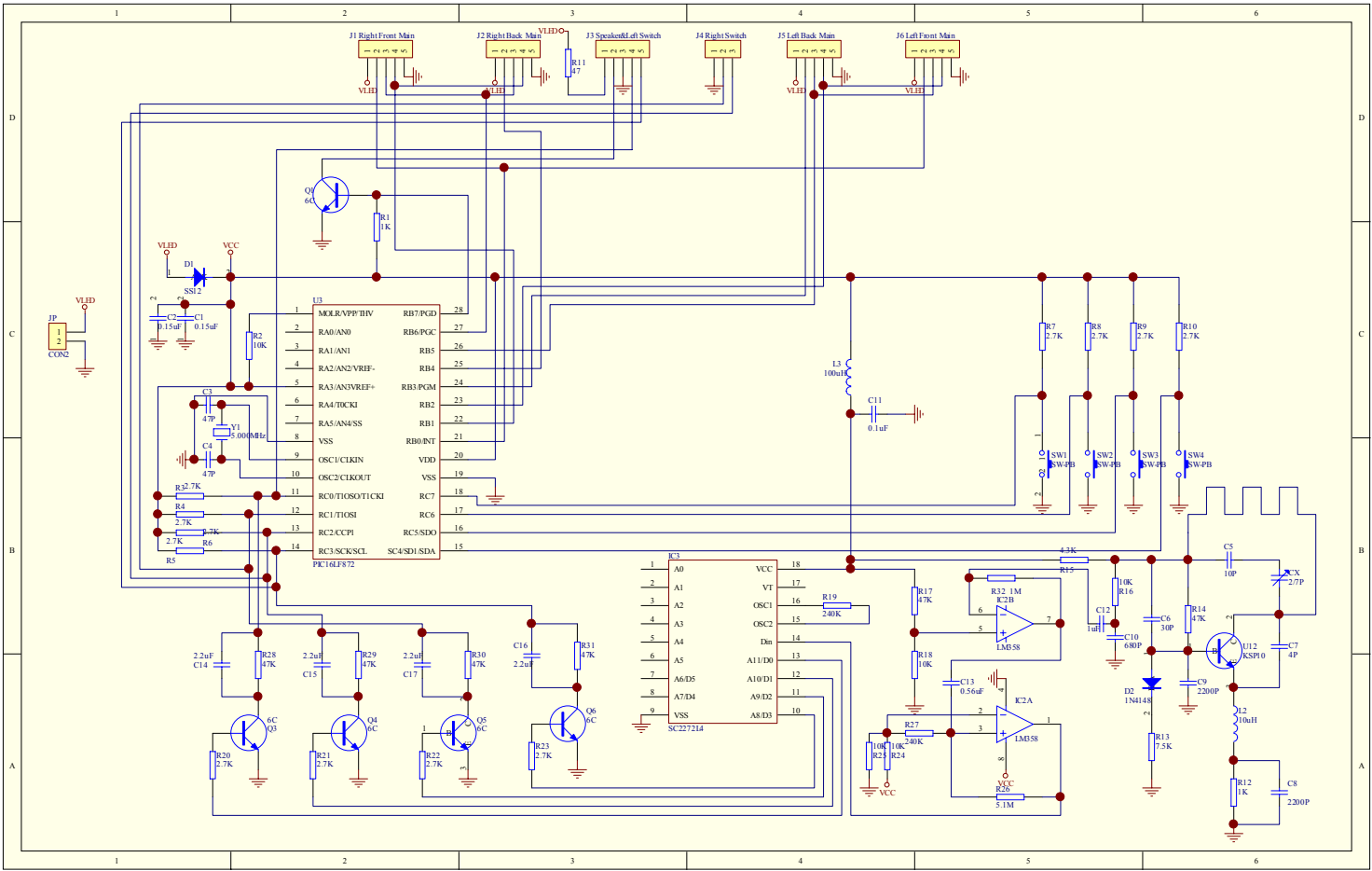
APPENDIX 1

SCHEMATICS

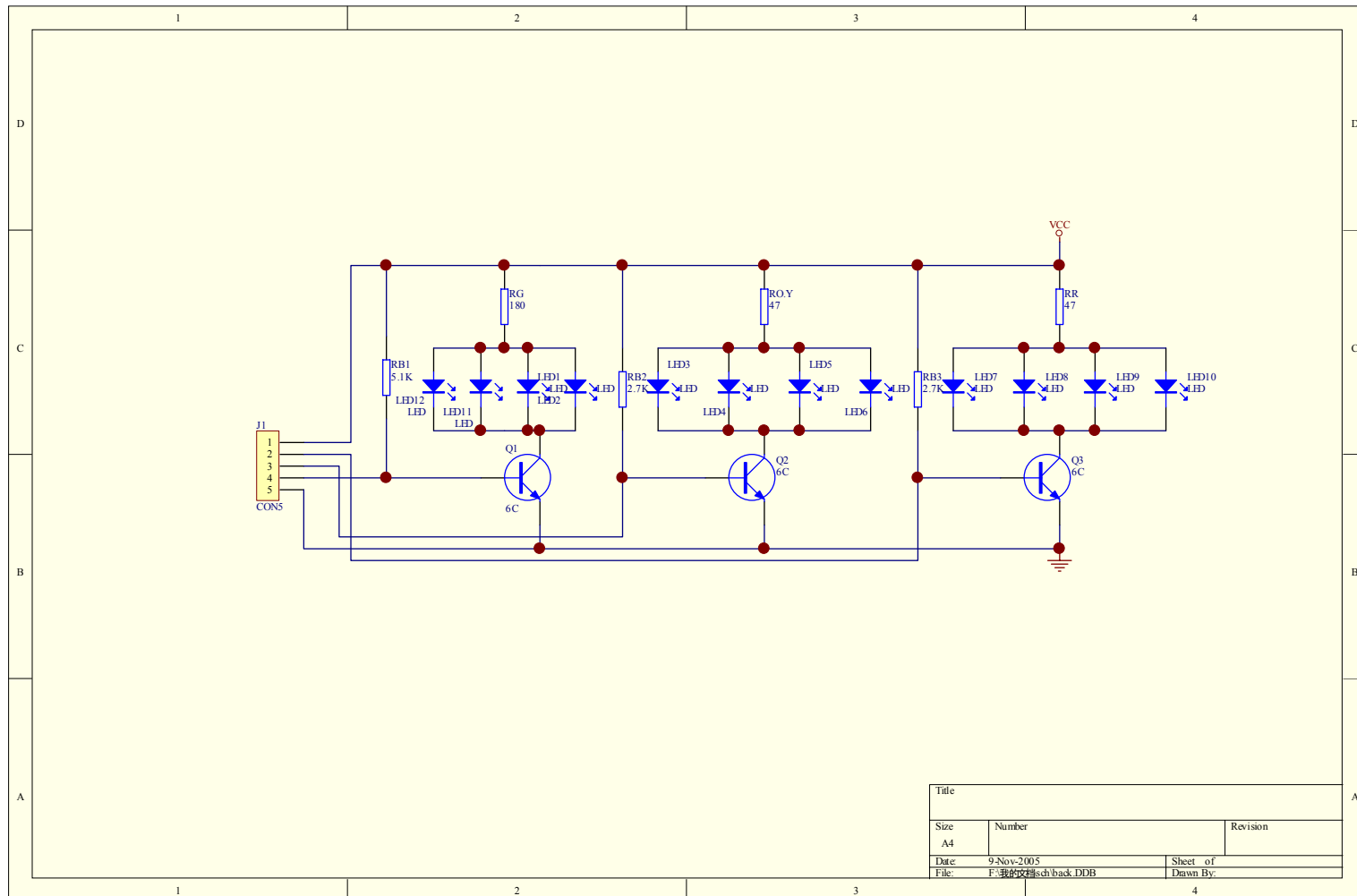
SIGZEEN TM

SIGNAL LIGHT VEST – 1600 Series

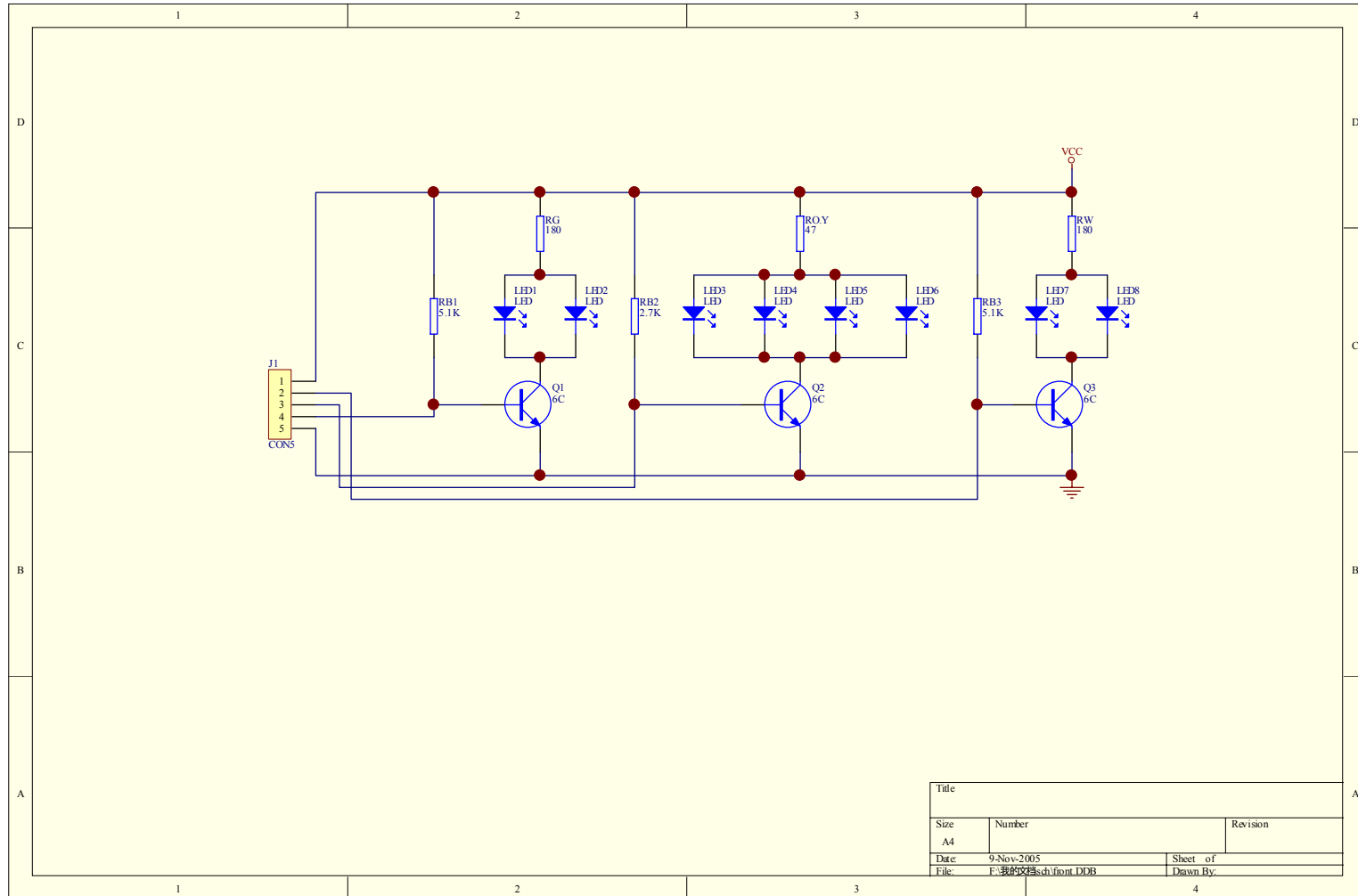
SCHEMATICS - MAIN CONTROLLER (*SIGZEEN 1600 Series*)



SCHEMATICS - BACK LAMP (SIGZEEN 1600 Series)



SCHEMATICS - FRONT LAMP (SIGZEEN 1600 Series)



The circuit diagram illustrates a multi-bit DAC implementation using the SC2260R4 IC. The IC's pins are configured as follows:

- Pins 1-8 (Left):** A0, A1, A2, A3, A4, A5, A6, A7.
- Pins 9-16 (Right):** VSS, D3, D2, D1, D0, OSC, DOOUT, VCC.

Key components and their connections include:

- Resistors:** R1 (10K) connects A0 to VCC; R2 (4.7M) forms a ladder network between A1-A4 and VSS; R3 (10K) connects DOOUT to ground; R4 (22K) connects VCC to the base of Q2.
- Capacitors:** C1 (10K) is connected across the crystal Y1.
- Inductors:** L1 (10uH) is connected between VCC and the LED driver stage.
- Transistors:** Q1 (T2A) drives the LED; Q2 (F36) and Q3 (T04) drive the output signals.
- Crystal Oscillator:** Y1 provides a clock signal to the OSC pin.
- Digital Input:** J1 (CON4) provides a 4-bit digital input to the A0-A3 pins.
- Output:** The circuit outputs a 4-bit digital signal through switches S1-S4 connected to the D0-D3 pins.

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SCHEMATICS - MANUEL SWITCH (SIGZEEN 1600 Series)

