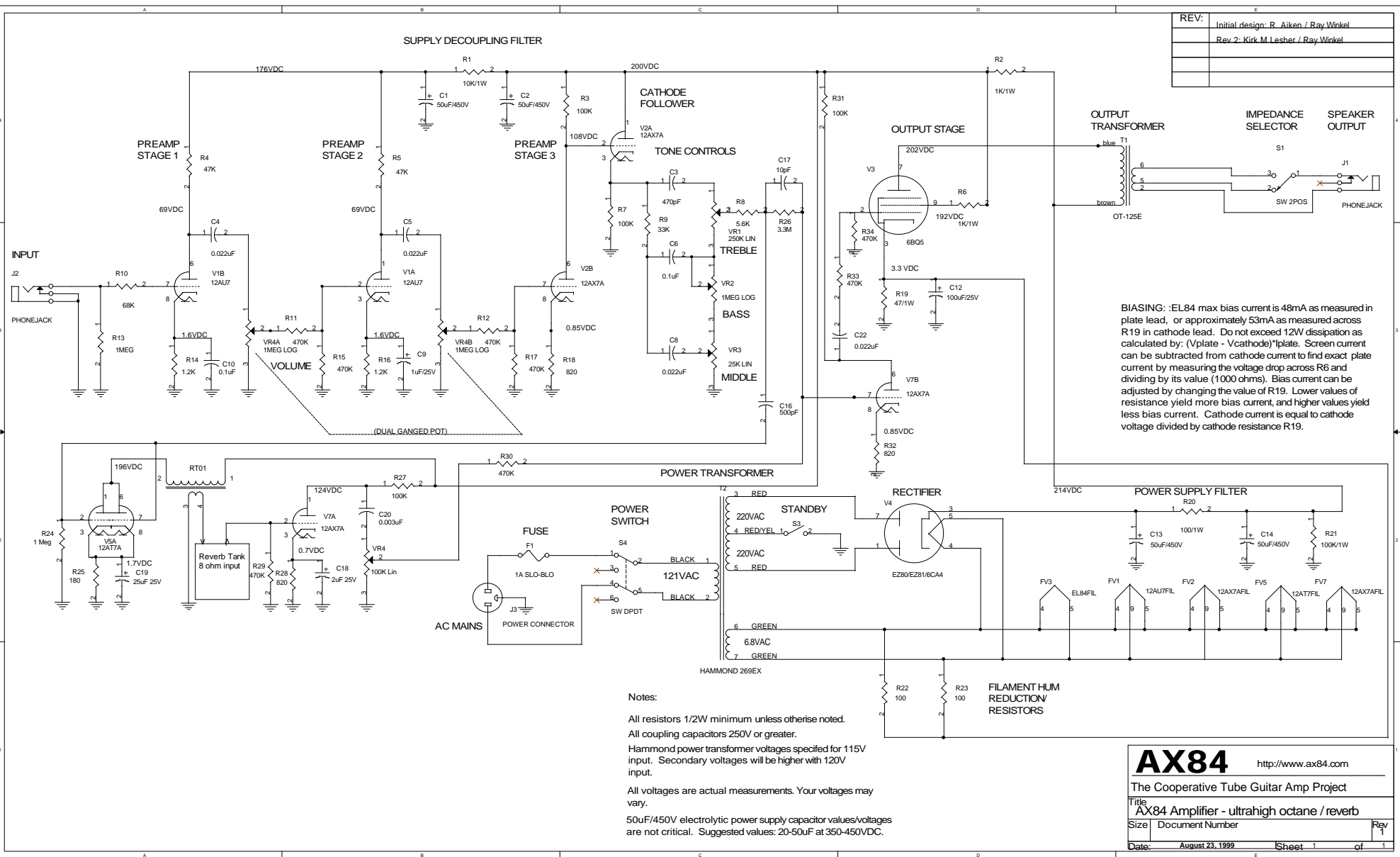


REV:	Initial design: R. Aiken / Ray Winkel
	Rev 2: Kirk M. Lesher / Ray Winkel



BIASING: EL84 max bias current is 48mA as measured in plate lead, or approximately 53mA as measured across R19 in cathode lead. Do not exceed 12W dissipation as calculated by: $(V_{plate} - V_{cathode}) \cdot I_{plate}$. Screen current can be subtracted from cathode current to find exact plate current by measuring the voltage drop across R6 and dividing by its value (1000 ohms). Bias current can be adjusted by changing the value of R19. Lower values of resistance yield more bias current, and higher values yield less bias current. Cathode current is equal to cathode voltage divided by cathode resistance R19.

Notes:
 All resistors 1/2W minimum unless otherwise noted.
 All coupling capacitors 250V or greater.
 Hammond power transformer voltages specified for 115V input. Secondary voltages will be higher with 120V input.
 All voltages are actual measurements. Your voltages may vary.
 50uF/450V electrolytic power supply capacitor values/voltages are not critical. Suggested values: 20-50uF at 350-450VDC.

AX84 <http://www.ax84.com>
 The Cooperative Tube Guitar Amp Project
 Title: AX84 Amplifier - ultrahigh octave / reverb
 Size: Document Number
 Date: August 23, 1999 Sheet 1 of 1