

PERTAINING TO THE CIRCUITRY OF THIS ILLUMINATED PLACARD

THE 95 SOCKETS ARE WIRED INTO THREE SUBCIRCUITS OF 32, 32 AND 31 SOCKETS APIECE, WITH LINE FEEDS AT ABOUT MIDPOINT OF EACH SUBCIRCUIT. THE THREE SUBCIRCUIT FEEDS ARE OF STRANDED #14 COPPER, AND ARE SPLICED TO A SINGLE FEED OF #8 STRANDED COPPER. #8 STRANDED COPPER IS USED AS GROUNDING WIRE AS WELL, AND IT IS STRONGLY URGED THAT THIS ALL-METAL PLACARD BE PROPERLY GROUNDED WHEN ELECTRIFIED. NO OVERCURRENT DEVICES ARE PRESENTLY INCORPORATED INTO THE CIRCUITRY OF THIS PLACARD.

USING 95, 15 WATT BULBS:

$(95)(15)=1425$ TOTAL WATTS; $1425 \text{ w}/110 \text{ VOLTS}=13$ AMPS CURRENT.

USING 95, 25 WATT BULBS:

$(95)(25)=2375$ TOTAL WATTS; $2375 \text{ w}/110 \text{ VOLTS}=22$ AMPS CURRENT.

USING 95, 40 WATT BULBS:

$(95)(40)=3800$ TOTAL WATTS; $3800 \text{ w}/110 \text{ VOLTS}=35$ AMPS CURRENT.

#8 STRANDED COPPER LINE FEED IS RATED AT 40 AMPS CURRENT CAPACITY. #14 STRANDED COPPER SUBCIRCUIT FEEDS ARE RATED AT 15 AMPS CURRENT CAPACITY, WHICH WOULD BE IN SAFE EXCESS OF THE DRAWN CURRENT OF ABOUT 12 AMPS [$(32 \text{ BULBS})(40 \text{ WATTS})=1280 \text{ WATTS}$; $1280 \text{ w}/110 \text{ VOLTS}=12 \text{ AMPS CURRENT}$].