



BFBP-0011
Rev. 11-9-22

City of Henderson
Dept. of Building and Fire Safety
240 Water Street
Henderson, NV 89015
Phone (702) 267-3600

RESIDENTIAL ELECTRICAL LOAD CALCULATIONS

Owner: _____ Date: _____
Address: _____ Prepared by: _____

General Lighting Load Sq. Ft.	X	3 Volt Amps	=		VA
Small Appliance Circuits @ 1500 VA each	X		=	(min. of two)	VA
Laundry (Washing Machine) Circuit	X		=	(min. of one)	VA
			=	Sub Total	VA
First 3,000 VA of General Lighting Load @ 100%			=	<u>3000</u>	VA
From 3,001 to 120,000 VA @ 35%		ST	=	X .35	VA
Over 120,00 VA use 25%		ST	=	X .25	VA

Electrical Cooking Appliances, Use NEC Table 220.55

Number of Appliances _____ Column A = _____ VA
 Number of Appliances _____ Column B = _____ VA
 Number of Appliances _____ Column C = _____ VA

Dryer Load NEC Table 220.54 = _____ VA

(1) Sub Total = _____ VA

Heating/Air Conditioning - List type and VA @ 100%

(H) Heat Pump (G) Gas + Cool (S) Heat Strip (A) Cir Fans

 _____ **(2) Sub Total** = _____ VA

Fixed Appliances - If fewer than four units use 100%. If four or more use 75% of the nameplate rating

Microwave 1500 VA x _____ Food Center 600 VA x _____
 Compactor 1200 VA x _____ Water Heater 4500 VA x _____
 Dishwasher 1200 VA x _____ Jacuzzi Tub 1850 VA x _____
 Disposal 600 VA x _____ VA x _____
 Cent Vacuum 1500 VA x _____ VA x _____
 Appliance Subtotal: _____ x (100%) or (75%) **(3) Sub Total** = _____ VA

Add 25% of the largest motor, usually the A/C compressor

_____ x 25% LM **(4) Sub Total** = _____ VA

GRAND TOTAL (Add Subtotals (1), (2), (3), & (4)) = _____ VA

Total Volt Amps _____ Divide by 240 Volts =Amps _____
 Service Size _____ Grounding Electrode Conductor _____