City of Boulder City
Community Development Department
Building and Safety Division
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Electrical Load Calculation Worksheet

					TOTALS
1	**GENERAL LIGHTING LOAD [Table 220.12]**				
_____	Sq. Ft X 3 VA/ft^2	=	_____	VA(a)	
	Small Appliance Circuits: [Sec. 220.52(A)]				
_____	Circuits @ 1,500 VA (minimum of 2)	=	_____	VA(b)	
	Laundry [Sec. 220.52(B)]	=	1,500	VA(c)	
	Sub Total: (a+b+c)	=	_____	VA(d)	
	Application of Demand Factor [Table 220.42]				
	First 3,000 VA(d) @ 100%	=	3,000	VA	
	(≤120,000) Remainder of _____ @ 35%	=	_____	VA	
	(>120,000) Remainder of _____ @ 25%	=	_____	VA	
	Sub Total:	=	_____	VA	= _____ **VA(1)**
2	**FIXED APPLIANCES [Section 220.53]**				
	Garbage Disposal (600 VA)		_____	VA	
	Water Heater (4,500 VA)		_____	VA	
	Dishwasher (1,200 VA)		_____	VA	
	Compactor (1,200 VA)		_____	VA	
	Microwave (1,500 VA)		_____	VA	
	_____		_____	VA	
	_____		_____	VA	
	Sub Total:		_____	(e) @ 100%	= _____ **VA(2)**
	(4 or more appliances, a demand factor of 75% may be used)				
3	**DRYER [Section 220.54, Table 220.54]**				
	5,000 VA or Name Plate ___whichever is larger___ VA @ 100%		_____		= _____ **VA(3)**
4	**COOKING EQUIPMENT [Table 220.55] Notes**				
	# of Units: 1 each 8,000 VA @ 100%		_____	VA	
	2 each 11,000 VA @ 100%		_____	VA	
	3 each 14,000 VA @ 100%		_____	VA	
	Total: _____VA(f)		_____	VA	= _____ **VA(4)**
	(may be reduced per Table 220.55)				
5	**HEATING OR A/C [Section 220.60]**				
	Total load for Supplemental Heating Unit (i)	=	_____	VA	
	Total load for A/C Unit (ii)	=	_____	VA	
	Total load for Heat Pump (iii)	=	_____	VA	
	Largest load of (i)+(ii) or (ii)+(iii)	=	_____	@ 100%	= _____ **VA(5)**
6	**LARGEST MOTOR [Sec. 220.14 (C)], [Sec. 220.50] - Usually A/C Compressor**				
	Single Phase _____ VA @ 25%	=	_____	VA	= _____ **VA(6)**
7	**OTHER LOADS (i.e., pool pump, spa, welder)**				
	Pool Pump, Spa, Welder	=	_____	VA	= _____ **VA(7)**
				TOTAL: Add VA(1) through VA(7)	_____ **VA(8)**
				Calculated Load for Service (VA(8)/240	= _____ **AMPS**

Service Panel Size = _____

Grounding Electrode Conductor = _____