

Residential Optional Calculation

9/25/1997

BROPHY 186 MICAH'S WAY N SPRING LAKE

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Version 2011 L

STEP 1 Article 220.82 (B) (1),(2)

sq. ft	2953	General Lighting load	8,859 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	13,359 VA

Wiretech Company

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3/26/2024 11:30

STEP 2 Article 220.82 (C)

A/C Condenser & Fixed Electric Space Heating

	VA		QTY		VA
1.5 ton	2,070	AHU 1	4.8 kW	1	5,444
4 ton	6,440	AHU 2	9.6 kW	1	10,980
		AHU 3	Select		
		AHU 4	Select		
		AHU 5	Select		

General lighting, Sm. Appl. & Laundry **13,359 VA**

Total	2	
Heating Load		11,384 VA
CU Load		10,534 VA

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **11,384 VA**

STEP 3 Article 220.82 (B) (3)

<input type="checkbox"/>	1,200 VA	1	Water Heater	1,200 VA
<input type="checkbox"/>	356 VA	1	Refrigerator	356 VA
<input type="checkbox"/>		0	Freezer	VA
<input type="checkbox"/>	1,440 VA	1	Dishwasher	1,440 VA
<input type="checkbox"/>	756 VA	1	Disposal	756 VA
<input type="checkbox"/>		0		VA
<input type="checkbox"/>	1,620 VA	1	Microwave	1,620 VA
<input type="checkbox"/>		0		VA
<input type="checkbox"/>		0		VA
<input checked="" type="checkbox"/>	720 VA	1	Door Opener	720 VA
<input checked="" type="checkbox"/>	1,200 VA	1	Gas Cooktop	1,200 VA
<input type="checkbox"/>		0		VA
<input type="checkbox"/>	1/3 hp		Jacuzzi Tub	828 VA
<input type="checkbox"/>	select			VA
<input type="checkbox"/>	select			VA
<input type="checkbox"/>	select			VA
<input type="checkbox"/>	select			VA
<input type="checkbox"/>	select			VA
<input type="checkbox"/>				VA Apply Demand
<input type="checkbox"/>				VA No Demand
<input type="checkbox"/>				VA No Demand

Appliance Demand Load **8,120 VA**

Dryer Demand Load **6,240 VA**

Range Demand Load **4,800 VA**

Service Demand **30,392 VA**

Demand Load **127 A**

Neutral Demand **76 A**

Min.Service Req. **150 A**

Min. Feeder size **2/0**

Min. Neutral size **2**

Eq. Grding Cond. **4**

Aluminium

Total Appliance Load **8,120 VA**

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers

6,240 VA

STEP 5 Article 220.82 (B) (3)

Electric Ranges

Col C demand

0

or Number of appliances

0

Check Box for Gas Range

Cooktop

Col B demand

Cooktop

Col B demand

Oven(s)

Col B demand

Oven(s)

4,800 W

Col B demand

Number of appliances

1 Dem. Factor

Cooktop & Oven Demand Load

Existing 200 Amp Service

imp1jds@comcast.net

Pool Panel Feeder Calculation (See Note)

		A	B	N
Continuous Motors	0	0	0	0
Non-continuous	0	0	0	0
Spa heater 11 kVA		0	0	
Pool heater 3.5 ton		0	0	
Pool heater 5 ton		0	0	
Pool Light	select	0	0	0
Blower	select	0	0	0
other load		0	0	0
other load		0	0	0
<input type="checkbox"/> Min. Copper Pool Feeder		A	A	A
Minimum Panel Rating		A	Phase Amperes	Neut. load

Continuous Motors

select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v

Non-continuous Motors

select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v

0.0 Motor Neutral Load

Max.Unbalanced Neutral Load