

# Florida Energy Efficiency Code For Building Construction

EnergyGauge Summit® Fla/Com-2010, Effective Date: March 15, 2012 -- Form 506-2010  
Prescriptive Compliance for Renovations, Occupancy Change, etc.

## PROJECT SUMMARY

**Short Desc:** MC SOE

**Description:** Supervisor of Elections

**Owner:** Manatee County Gov.

**Address1:**

**City:**

**Address2:**

**State:**

**Zip:** 0

**Type:** Office

**Class:** Renovation to existing building

**Jurisdiction:** MANATEE COUNTY, MANATEE COUNTY, FL (511000)

**Conditioned Area:** 17141 SF

**Conditioned & UnConditioned Area:** 17141 SF

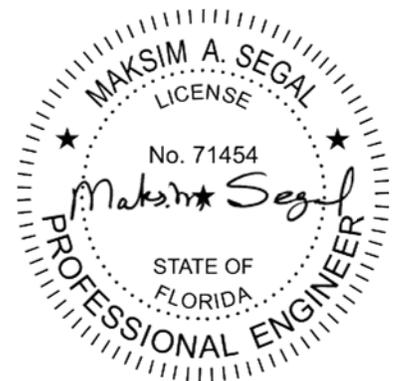
**No of Stories:** 1

**Area entered from Plans** 0 SF

**Permit No:** 0

**Max Tonnage** 19.6

**If different, write in:** \_\_\_\_\_



## Compliance Summary

<b>Component</b>	<b>Design</b>	<b>Criteria</b>	<b>Result</b>
RENOVATED ENVELOPE PRESCRIPTIVE			<b>PASSES</b>
LIGHTING POWER	16,056.0	18,861.3	<b>PASSES</b>
LIGHTING CONTROLS			<b>PASSES</b>
EXTERNAL LIGHTING			<b>None Entered</b>
HVAC SYSTEM			<b>PASSES</b>
PLANT			<b>None Entered</b>
WATER HEATING SYSTEMS			<b>Not Checked</b>
PIPING SYSTEMS			<b>PASSES</b>
Met all required compliance from Check List?			<b>Yes/No/NA</b>

### IMPORTANT MESSAGE

Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

## CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: Maksim A. Segal

Building Official: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: \_\_\_\_\_

Date: \_\_\_\_\_

If Required by Florida law, I hereby certify (\*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: \_\_\_\_\_

Reg No: \_\_\_\_\_

Electrical Designer: Philip J. Feikema

Reg No: 65083

Lighting Designer: Philip J. Feikema

Reg No: 65083

Mechanical Designer: Maksim A. Segal

Reg No: 71454

Plumbing Designer: Maksim A. Segal

Reg No: 71454

(\*) Signature is required where Florida Law requires design to be performed by registered design professionals.

**Project: MC SOE**

**Title: Supervisor of Elections**

**Type: Office**

**(WEA File: FL\_SARASOTA\_BRADENTON.tm3)**

### Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria	Meet Req.
Glass	Reno Space	Percent glass Max allowed	.000	50.000	Yes
Skylights	Reno Space	Percent Skylight Max allowed	.000	5.000	Yes

**Meets Shell Envelope Requirements -- PASSES**

<b>External Lighting Compliance</b>						
<b>Description</b>	<b>Category</b>	<b>Tradable?</b>	<b>Allowance (W/Unit)</b>	<b>Area or Length or No. of Units (Sqft or ft)</b>	<b>ELPA (W)</b>	<b>CLP (W)</b>
						<b>None</b>

**Project: MC SOE**

**Title: Supervisor of Elections**

**Type: Office**

**(WEA File: FL\_SARASOTA\_BRADENTON.tm3)**

### Lighting Power Compliance

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
1-100	14	Classroom/Lecture Hall	663	10.0	1	576	576	928
1-101	1	Electrical Mechanical Equipment Room - General	48	10.0	1	64	64	72
1-102	3	Storage & Warehouse - Bulky Active Storage	153	10.0	1	128	128	122
1-103	14	Classroom/Lecture Hall	2,084	10.0	1	1920	1920	2,918
1-104	14	Classroom/Lecture Hall	773	10.0	1	640	640	1,082
2-100A	5	Corridor	181	10.0	1	192	192	91
2-100B	3	Storage & Warehouse - Bulky Active Storage	102	10.0	1	128	128	82
2-100C	5	Corridor	147	10.0	1	128	128	74
2-100D	5	Corridor	151	10.0	1	192	192	76
2-101	16	Office - Open Plan	335	10.0	1	192	192	369
2-102	16	Office - Open Plan	351	10.0	1	192	192	386
2-103	15	Conference/meeting (Multiple Functions)	245	10.0	1	192	192	319
2-104	17	Office - Enclosed	139	10.0	1	212	212	153
2-105	17	Office - Enclosed	2,572	10.0	1	2240	2240	2,829
2-106	17	Office - Enclosed	231	10.0	1	192	192	254
2-107	17	Office - Enclosed	143	10.0	1	128	128	157
2-108	16	Office - Open Plan	95	10.0	1	128	128	105
2-109	9	Food Service - Bar/Lounge	300	10.0	1	384	384	360
2-110	6	Toilet and Washroom	115	10.0	1	106	106	104
2-111	6	Toilet and Washroom	144	10.0	1	234	234	130
2-112	3	Storage & Warehouse - Bulky Active Storage	333	10.0	1	256	256	266
2-113	17	Office - Enclosed	447	10.0	1	512	512	492
3-100	12	Lobby (General) - Reception and Waiting	253	10.0	1	84	84	329
3-101	9	Food Service - Bar/Lounge	403	10.0	1	468	468	484
3-102	6	Toilet and Washroom	211	10.0	1	212	212	190
3-103	6	Toilet and Washroom	273	10.0	1	340	340	246
3-104	12	Lobby (General) - Reception and Waiting	388	10.0	1	384	384	504
3-105	15	Conference/meeting (Multiple Functions)	131	10.0	1	128	128	170

3-106	15	Conference/meeting (Multiple Functions)	131	10.0	1	128	128	170
3-108	3	Storage & Warehouse - Bulky Active Storage	280	10.0	1	192	192	224
3-109	15	Conference/meeting (Multiple Functions)	482	10.0	1	384	384	627
3-110	3	Storage & Warehouse - Bulky Active Storage	3,325	10.0	1	3200	3200	2,660
3-111	1	Electrical Mechanical Equipment Room - General	131	10.0	1	128	128	197
3-112	3	Storage & Warehouse - Bulky Active Storage	67	10.0	1	64	64	54
3-113	3	Storage & Warehouse - Bulky Active Storage	133	10.0	1	128	128	106
3-114	15	Conference/meeting (Multiple Functions)	634	10.0	1	640	640	824
3-115	15	Conference/meeting (Multiple Functions)	547	10.0	1	640	640	711

**Design :** 16056 (W)  
**Effective:** 16056 (W)  
**Allowance:** 18861.3 (W)

<b>PASSES</b>
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**Passing requires Design to be at most 100% of Criteria**

**Project: MC SOE**  
**Title: Supervisor of Elections**  
**Type: Office**  
**(WEA File: FL\_SARASOTA\_BRADENTON.tm3)**

### Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
1-100	14	Classroom/Lecture Hall	663	1	1	PASSES
1-101	1	Electrical Mechanical Equipment Room - General	48	1	1	PASSES
1-102	3	Storage & Warehouse - Bulky Active Storage	153	1	1	PASSES
1-103	14	Classroom/Lecture Hall	2,084	1	1	PASSES
1-104	14	Classroom/Lecture Hall	773	1	1	PASSES
2-100A	5	Corridor	181	1	1	PASSES
2-100B	3	Storage & Warehouse - Bulky Active Storage	102	1	1	PASSES
2-100C	5	Corridor	147	1	1	PASSES
2-100D	5	Corridor	151	1	1	PASSES
2-101	16	Office - Open Plan	335	1	1	PASSES
2-102	16	Office - Open Plan	351	1	1	PASSES
2-103	15	Conference/meeting (Multiple Functions)	245	1	1	PASSES
2-104	17	Office - Enclosed	139	1	1	PASSES
2-105	17	Office - Enclosed	2,572	2	2	PASSES
2-106	17	Office - Enclosed	231	1	1	PASSES
2-107	17	Office - Enclosed	143	1	1	PASSES
2-108	16	Office - Open Plan	95	1	1	PASSES
2-109	9	Food Service - Bar/Lounge	300	1	1	PASSES
2-110	6	Toilet and Washroom	115	1	1	PASSES
2-111	6	Toilet and Washroom	144	1	1	PASSES
2-112	3	Storage & Warehouse - Bulky Active Storage	333	1	1	PASSES
2-113	17	Office - Enclosed	447	1	1	PASSES
3-100	12	Lobby (General) - Reception and Waiting	253	1	1	PASSES
3-101	9	Food Service - Bar/Lounge	403	1	1	PASSES
3-102	6	Toilet and Washroom	211	1	1	PASSES
3-103	6	Toilet and Washroom	273	1	1	PASSES
3-104	12	Lobby (General) - Reception and Waiting	388	1	1	PASSES
3-105	15	Conference/meeting (Multiple Functions)	131	1	1	PASSES
3-106	15	Conference/meeting (Multiple Functions)	131	1	1	PASSES
3-108	3	Storage & Warehouse - Bulky Active Storage	280	1	1	PASSES
3-109	15	Conference/meeting (Multiple Functions)	482	1	1	PASSES
3-110	3	Storage & Warehouse - Bulky Active Storage	3,325	2	2	PASSES
3-111	1	Electrical Mechanical Equipment Room - General	131	1	1	PASSES

3-112	3	Storage & Warehouse - Bulky Active Storage	67	2	1	PASSES
3-113	3	Storage & Warehouse - Bulky Active Storage	133	2	1	PASSES
3-114	15	Conference/meeting (Multiple Functions)	634	1	1	PASSES
3-115	15	Conference/meeting (Multiple Functions)	547	1	1	PASSES
<b>PASSES</b>						

**Project:** MC SOE  
**Title:** Supervisor of Elections  
**Type:** Office  
**(WEA File:** FL\_SARASOTA\_BRADENTON.tm3)

### System Report Compliance

<b>RTU-3</b>	<b>RTU-3 is new, others are existing</b>	<b>Constant Volume Packaged System--902</b>	<b>No. of Units</b>	<b>1</b>			
<b>Component</b>	<b>Category</b>	<b>Capacity</b>	<b>Design Eff</b>	<b>Eff Criteria</b>	<b>Design IPLV</b>	<b>IPLV Criteria</b>	<b>Compliance</b>
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity		11.00	11.00	11.20	11.20	PASSES
Heating System	Electric Furnace		1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.82			PASSES

**PASSES**

### Plant Compliance

<b>Description</b>	<b>Installed No</b>	<b>Size</b>	<b>Design Eff</b>	<b>Min Eff</b>	<b>Design IPLV</b>	<b>Min IPLV</b>	<b>Category</b>	<b>Compliance</b>
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**None**

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**Water Heater Compliance**

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	Unknown	0.92				Not Checked
							<b>Not Checked</b>

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**Piping System Compliance**

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
Heating System (Steam, Steam Condensate, & Hot Water)	0.75	False	105.00	0.28	0.51	0.50	PASSES
							<b>PASSES</b>

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### Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	506.4.2	Input Report Print-Out from EnergyGauge FlaCom attached	<input type="checkbox"/>
Operations Manual	303.3.1, 503.2.9.3, 505.7.4.2	Operations manual provided to owner	<input type="checkbox"/>
Windows & Doors	502.3.2	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft <sup>2</sup> ; all other products: 0.3 cfm/ft <sup>2</sup>	<input type="checkbox"/>
Joints/Cracks	502.3.3	To be caulked, gasketed, weather-stripped or otherwise sealed	<input type="checkbox"/>
Dropped Ceiling Cavity	502.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	<input type="checkbox"/>
HVAC Efficiency	503.2.3	Minimum efficiencies: Tables 503.2.3(1)-(8)	<input type="checkbox"/>
HVAC Controls	503.2.4	Zone controls prevent reheat (exceptions); separate thermostatic control per zone;	<input type="checkbox"/>
Ventilation	503.2.5	Outdoor air supply & exhaust ducts shall have dampers that automatically shut when systems or spaces served are not in use. Exhaust air energy recovery required for cooling systems (Exceptions).	<input type="checkbox"/>
ADS	503.2.7.5	Duct sizing and Design have been performed	<input type="checkbox"/>
HVAC Ducts	503.2.7	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Table 503.2.7.2. Fan power limitations.	<input type="checkbox"/>
Balancing	503.2.9.1	HVAC distribution system(s) tested & balanced. Report in construction documents.	<input type="checkbox"/>
Piping Insulation	503.2.8	HAC and service hot water. In accordance with Table 503.2.8.	<input type="checkbox"/>
Water Heaters	504	Performance requirements in accordance with Table 504.2. Heat trap required.	<input type="checkbox"/>
Swimming Pools	504.7	Vapor-retardant or liquid cover or other means proven to reduce heat loss on heated pools; Time switch (exceptions); readily accessible on/off switch.	<input type="checkbox"/>
Motors	505.7.5	Motor efficiency criteria have been met	<input type="checkbox"/>
Lighting Controls	505.2, 502.3	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandem wiring with 1 or 3 linear fluorescent lamps>30W	<input type="checkbox"/>

EnergyGauge Summit® v4.10  
**INPUT DATA REPORT**

**Project Information**

**Project Name:** MC SOE

**Orientation:** North

**Project Title:** Supervisor of Elections

**Building Type:** Office

**Address:**

**Building Classification:** Renovation to existing building

**State:**

**No. of Stories:** 1

**Zip:** 0

**GrossArea:** 17141 SF

**Owner:** Manatee County Gov.

**Zones**

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Reno Space	Reno Space	CONDITIONED	17141.0	1	17141.0	<input type="checkbox"/>

**Spaces**

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
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In Zone:		Reno Space									
1	1-100	Training	Classroom/Lecture Hall	1.00	663.00	10.00	1	663.0	6630.0	<input type="checkbox"/>	
2	1-101	Electrical	Electrical Mechanical Equipment Room - General	1.00	48.00	10.00	1	48.0	480.0	<input type="checkbox"/>	
3	1-102	Janitor/Storage	Storage & Warehouse - Bulky Active Storage	1.00	153.00	10.00	1	153.0	1530.0	<input type="checkbox"/>	
4	1-103	Training Room	Classroom/Lecture Hall	1.00	2084.00	10.00	1	2084.0	20840.0	<input type="checkbox"/>	
5	1-104	Training Room	Classroom/Lecture Hall	1.00	773.00	10.00	1	773.0	7730.0	<input type="checkbox"/>	
6	2-100A	Corridor	Corridor	1.00	181.00	10.00	1	181.0	1810.0	<input type="checkbox"/>	
7	2-100B	Supplies Area	Storage & Warehouse - Bulky Active Storage	1.00	102.00	10.00	1	102.0	1020.0	<input type="checkbox"/>	
8	2-100C	Corridor	Corridor	1.00	147.00	10.00	1	147.0	1470.0	<input type="checkbox"/>	
9	2-100D	Corridor	Corridor	1.00	151.00	10.00	1	151.0	1510.0	<input type="checkbox"/>	
10	2-101	Poll Worker Coordinator	Office - Open Plan	1.00	335.00	10.00	1	335.0	3350.0	<input type="checkbox"/>	
11	2-102	Work Room	Office - Open Plan	1.00	351.00	10.00	1	351.0	3510.0	<input type="checkbox"/>	
12	2-103	Conference	Conference/meeting (Multiple Functions)	1.00	245.00	10.00	1	245.0	2450.0	<input type="checkbox"/>	
13	2-104	Deputy Office	Office - Enclosed	1.00	139.00	10.00	1	139.0	1390.0	<input type="checkbox"/>	
14	2-105	Open Work Area	Office - Enclosed	1.00	2572.00	10.00	1	2572.0	25720.0	<input type="checkbox"/>	
15	2-106	Supervisor of Elections	Office - Enclosed	1.00	231.00	10.00	1	231.0	2310.0	<input type="checkbox"/>	
16	2-107	Assistant Supervisor of Elections	Office - Enclosed	1.00	143.00	10.00	1	143.0	1430.0	<input type="checkbox"/>	
17	2-108	Admin. Assistant	Office - Open Plan	1.00	95.00	10.00	1	95.0	950.0	<input type="checkbox"/>	
18	2-109	Staff Break	Food Service - Bar/Lounge	1.00	300.00	10.00	1	300.0	3000.0	<input type="checkbox"/>	
19	2-110	Restrooms	Toilet and Washroom	1.00	115.00	10.00	1	115.0	1150.0	<input type="checkbox"/>	
20	2-111	Restrooms	Toilet and Washroom	1.00	144.00	10.00	1	144.0	1440.0	<input type="checkbox"/>	
21	2-112	Files/Records	Storage & Warehouse - Bulky Active Storage	1.00	333.00	10.00	1	333.0	3330.0	<input type="checkbox"/>	
22	2-113	Tabulation Room	Office - Enclosed	1.00	447.00	10.00	1	447.0	4470.0	<input type="checkbox"/>	
23	3-100	Entry	Lobby (General) - Reception and Waiting	1.00	253.00	10.00	1	253.0	2530.0	<input type="checkbox"/>	
24	3-101	Public Break Area	Food Service - Bar/Lounge	1.00	403.00	10.00	1	403.0	4030.0	<input type="checkbox"/>	

25	3-102	Restrooms	Toilet and Washroom	1.00	211.00	10.00	1	211.0	2110.0	<input type="checkbox"/>
26	3-103	Restrooms	Toilet and Washroom	1.00	273.00	10.00	1	273.0	2730.0	<input type="checkbox"/>
27	3-104	Lobby/Reception	Lobby (General) - Reception and Waiting	1.00	388.00	10.00	1	388.0	3880.0	<input type="checkbox"/>
28	3-105	Conference Room	Conference/meeting (Multiple Functions)	1.00	131.00	10.00	1	131.0	1310.0	<input type="checkbox"/>
29	3-106	Conference Room	Conference/meeting (Multiple Functions)	1.00	131.00	10.00	1	131.0	1310.0	<input type="checkbox"/>
30	3-108	Secured Ballot Storage	Storage & Warehouse - Bulky Active Storage	1.00	280.00	10.00	1	280.0	2800.0	<input type="checkbox"/>
31	3-109	Poll Worker Supply Area	Conference/meeting (Multiple Functions)	1.00	482.00	10.00	1	482.0	4820.0	<input type="checkbox"/>
32	3-110	Equipment Storage	Storage & Warehouse - Bulky Active Storage	1.00	3325.00	10.00	1	3325.0	33250.0	<input type="checkbox"/>
33	3-111	Data	Electrical Mechanical Equipment Room - General	1.00	131.00	10.00	1	131.0	1310.0	<input type="checkbox"/>
34	3-112	Storage	Storage & Warehouse - Bulky Active Storage	1.00	67.00	10.00	1	67.0	670.0	<input type="checkbox"/>
35	3-113	Maintenance Shop	Storage & Warehouse - Bulky Active Storage	1.00	133.00	10.00	1	133.0	1330.0	<input type="checkbox"/>
36	3-114	Staging Area	Conference/meeting (Multiple Functions)	1.00	634.00	10.00	1	634.0	6340.0	<input type="checkbox"/>
37	3-115	Covered Ext. Storage	Conference/meeting (Multiple Functions)	1.00	547.00	10.00	1	547.0	5470.0	<input type="checkbox"/>

### Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts	
<b>In Zone: Reno Space</b>								
<b>In Space: 1-100</b>								
1	Compact Fluorescent	General Lighting	1	576	576	Manual On/Off	1	<input type="checkbox"/>
<b>In Space: 1-101</b>								
1	Compact Fluorescent	General Lighting	1	64	64	Manual On/Off	1	<input type="checkbox"/>
<b>In Space: 1-102</b>								
1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>

<b>In Space:</b>	<b>1-103</b>									
	1	Compact Fluorescent	General Lighting	1	1920	1920	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>1-104</b>									
	1	Compact Fluorescent	General Lighting	1	640	640	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-100A</b>									
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-100B</b>									
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-100C</b>									
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-100D</b>									
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-101</b>									
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-102</b>									
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-103</b>									
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-104</b>									
	1	Compact Fluorescent	General Lighting	1	212	212	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-105</b>									
	1	Compact Fluorescent	General Lighting	1	2240	2240	Manual On/Off	2	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-106</b>									
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-107</b>									
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-108</b>									
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-109</b>									
	1	Compact Fluorescent	General Lighting	1	384	384	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-110</b>									
	1	Compact Fluorescent	General Lighting	1	106	106	Manual On/Off	1	<input type="checkbox"/>	
<b>In Space:</b>	<b>2-111</b>									

	1	Compact Fluorescent	General Lighting	1	234	234	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>2-112</b>								
	1	Compact Fluorescent	General Lighting	1	256	256	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>2-113</b>								
	1	Compact Fluorescent	General Lighting	1	512	512	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-100</b>								
	1	Compact Fluorescent	General Lighting	1	84	84	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-101</b>								
	1	Compact Fluorescent	General Lighting	1	468	468	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-102</b>								
	1	Compact Fluorescent	General Lighting	1	212	212	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-103</b>								
	1	Compact Fluorescent	General Lighting	1	340	340	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-104</b>								
	1	Compact Fluorescent	General Lighting	1	384	384	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-105</b>								
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-106</b>								
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-108</b>								
	1	Compact Fluorescent	General Lighting	1	192	192	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-109</b>								
	1	Compact Fluorescent	General Lighting	1	384	384	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-110</b>								
	1	Compact Fluorescent	General Lighting	1	3200	3200	Manual On/Off	2	<input type="checkbox"/>
<b>In Space:</b>	<b>3-111</b>								
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	1	<input type="checkbox"/>
<b>In Space:</b>	<b>3-112</b>								
	1	Compact Fluorescent	General Lighting	1	64	64	Manual On/Off	2	<input type="checkbox"/>
<b>In Space:</b>	<b>3-113</b>								
	1	Compact Fluorescent	General Lighting	1	128	128	Manual On/Off	2	<input type="checkbox"/>
<b>In Space:</b>	<b>3-114</b>								
	1	Compact Fluorescent	General Lighting	1	640	640	Manual On/Off	1	<input type="checkbox"/>

<b>In Space:</b> 3-115	1	Compact Fluorescent	General Lighting	1	640	640	Manual On/Off	1	<input type="checkbox"/>
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<b>Walls</b>											
No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
<b>In Zone:</b>											

<b>Windows</b>											
No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
<b>In Zone:</b>											
<b>In Wall:</b>											

<b>Doors</b>											
No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]
<b>In Zone:</b>											
<b>In Wall:</b>											

<b>Roofs</b>											
No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
<b>In Zone:</b>											

### Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof: <span style="float: right;"><input type="checkbox"/></span>										

### Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: <span style="float: right;"><input type="checkbox"/></span>										

### Systems

<b>RTU-3</b>	<b>RTU-3 is new, others are existing</b>	<b>Constant Volume Packaged System--902</b>	<b>No. Of Units</b>	<b>1</b>
<b>Component</b>	<b>Category</b>	<b>Capacity</b>	<b>Efficiency</b>	<b>IPLV</b>
1	Cooling System	234850.00	11.00	11.20
2	Heating System	240000.00	1.00	<input type="checkbox"/>
3	Air Handling System -Supply	6520.00	0.80	<input type="checkbox"/>

### Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV
<input type="checkbox"/>					

### Water Heaters

W-Heater Description	Capacity Cap.Unit	I/P Rt.	Efficiency	Loss
1 Electric water heater	6 [Gal]	5 [kW]	0.9200 [Ef]	[Btu/h] <input type="checkbox"/>

### Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
<input type="checkbox"/>						

### Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [ Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Heating System (Steam, Steam Condensate, & Hot Water)	105.00	0.28	0.75	0.51	No <input type="checkbox"/>

### Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
<input type="checkbox"/>					

## Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]
<input type="checkbox"/>								

## Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
<input type="checkbox"/>								
Layer	Material No.	Material	Thickness [ft]	Framing Factor				<input type="checkbox"/>