

Florida Building Code, Seventh Edition (2022 Supplement) - Energy Conservation

EnergyGauge Summit® Fla/Com-7thEd 2022 Supp, Effective Date: Jan 1, 2023

C401.2.3: FBC Total Building Performance Compliance Option

Compliance applying the requirements of Sections C402.5, C403.2, C404, C405.2, C405.4, C405.5, C407 and C408. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- This Checklist
- The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- The compliance report must include the full input report generated by the software as contiguous part of the compliance report.
- Boxes appropriately checked in the Mandatory Section of the compliance report.

PROJECT SUMMARY

Short Desc: 2020-025

Description: South Walton Mosquito Control

Owner: Enter Owner's name here

Address1: 774 North County Highway 393

City: Santa Rosa Beach

Address2: Enter Address here

State: FL

Zip: 32459

Type: Office

Class: New Finished building

Jurisdiction: WALTON COUNTY, WALTON COUNTY, FL (761000)

Conditioned Area: 10165 SF

Conditioned & UnConditioned Area: 10165 SF

No of Stories: 1

Area entered from Plans 0 SF

Permit No: 0

Max Tonnage 15.3

If different, write in: _____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	4,996.0	5,568.0	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			Not Checked
PIPING SYSTEMS			PASSES
Met all required compliance from Check List?			Yes/No/NA

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: SHELBY SAVELL

Building _____

Official: _____

Date: 06/23/2023

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: PAT BALLASCH

Reg No: AR0017640 Signature _____

Electrical Designer: DANIEL WHITE

Reg No: 73790 Signature _____

Lighting Designer: DANIEL WHITE

Reg No: 73790 Signature _____

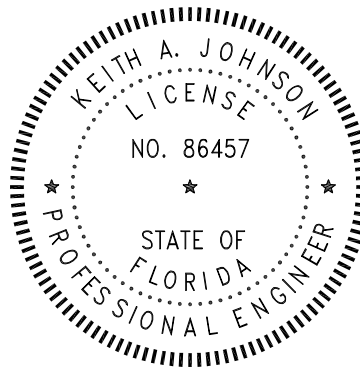
Mechanical Designer: KEITH JOHNSON

Reg No: 86457 Signature _____

Plumbing Designer: KEITH JOHNSON

Reg No: 86457 Signature _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals per C103.1.1.1.2



Project: 2020-025
 Title: South Walton Mosquito Control Admin.
 Type: Office
 (WEA File: FL_CRESTVIEW_BOB_SIKES_AP.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	316.30	416.40
	\$4,996	\$6,551
ELECTRICITY(MBtu/kWh/\$)	316.30	416.40
	92689	121991
	\$4,996	\$6,551
AREA LIGHTS	46.70	90.30
	13672	26469
	\$737	\$1,421
MISC EQUIPMT	98.70	98.70
	28913	28913
	\$1,558	\$1,553
PUMPS & MISC	1.20	1.20
	356	350
	\$19	\$19
SPACE COOL	106.60	123.70
	31240	36230
	\$1,684	\$1,946
SPACE HEAT	25.90	23.70
	7603	6933
	\$410	\$372
VENT FANS	37.20	78.80
	10905	23096
	\$588	\$1,240

Credits Applied: None

Passing Criteria = 5568

Design (including any credits) = 4996

Passing requires Proposed Building cost to be at most 85% of Baseline cost. This Proposed Building is at 76.3%

PASSES

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External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
WB (DOORS)	Main entries	Yes	21.00	27.0	567	128
WB (NORTH SIDE)	Walkways more that 10 feet wide	Yes	0.11	337.3	37	32
Ext Light 3	Building facades (by linear foot)	No	3.75	40.5	152	48

Tradable Surfaces: 160 (W) Allowance for Tradable: 1104.107 (W)

PASSES

All External Lighting: 208 (W)

Compliance check includes a excess/Base allowance of 500.00(W)

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Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
001	12	Lobby (General) - Reception and Waiting	458	3	1	PASSES
005	17	Office - Enclosed	120	2	1	PASSES
007	17	Office - Enclosed	200	2	1	PASSES
009	15	Conference/meeting (Multiple Functions)	489	1	1	PASSES
011	17	Office - Enclosed	200	2	1	PASSES
013	17	Office - Enclosed	200	2	1	PASSES
014	17	Office - Enclosed	320	2	1	PASSES
C01	5	Corridor	221	3	1	PASSES
002	15	Conference/meeting (Multiple Functions)	971	3	1	PASSES
003	2	Storage & Warehouse - Inactive Storage	88	1	1	PASSES
004	6	Toilet and Washroom	52	1	1	PASSES
006	5	Corridor	62	1	1	PASSES
008	2	Storage & Warehouse - Inactive Storage	252	2	1	PASSES
024	6	Toilet and Washroom	408	2	1	PASSES
025	17	Office - Enclosed	176	2	1	PASSES
025	6	Toilet and Washroom	422	2	1	PASSES
026	17	Office - Enclosed	150	2	1	PASSES
028	9	Food Service - Bar/Lounge	426	2	1	PASSES
029	10,012	Laundry-Washing	922	1	1	PASSES
C01	5	Corridor	221	3	1	PASSES
C02	5	Corridor	227	3	1	PASSES
C04	5	Corridor	256	3	1	PASSES
C05	5	Corridor	193	3	1	PASSES
010	2	Storage & Warehouse - Inactive Storage	177	1	1	PASSES
016	17	Office - Enclosed	231	2	1	PASSES
017	17	Office - Enclosed	209	2	1	PASSES
018	16	Office - Open Plan	585	2	1	PASSES
019	16	Office - Open Plan	252	2	1	PASSES
020	17	Office - Enclosed	160	2	1	PASSES
C03	5	Corridor	246	3	1	PASSES
C04	5	Corridor	256	3	1	PASSES
021	21	Laboratory for Medical/Industrial/research	571	2	1	PASSES
022	21	Laboratory for Medical/Industrial/research	199	2	1	PASSES
031	1	Electrical Mechanical Equipment Room - General	107	2	1	PASSES
030	2	Storage & Warehouse - Inactive Storage	140	1	1	PASSES
DUMMY	1	Electrical Mechanical Equipment Room - General	1	1	1	PASSES

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System Report Compliance

HP-1	System 1	Constant Volume Air Cooled Split System < 65000 Btu/hr	No. of Units 1
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Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	38100	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	16600	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1580	0.35	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES

HP-2	System 2	Constant Volume Air Cooled Split System < 65000 Btu/hr	No. of Units 1
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Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	24200	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	3800	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1045	0.36	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES

HP-3		System 3		Constant Volume Air Cooled Split System < 65000 Btu/hr			No. of Units
							1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	31400	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	11000	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1235	0.30	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
HP-4		System 4		Constant Volume Air Cooled Split System < 65000 Btu/hr			No. of Units
							1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	29800	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	9900	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1215	0.31	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
MHP-1		System 5		Constant Volume Air Cooled Split System < 65000 Btu/hr			No. of Units
							1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	29800	15.37	14.00	8.00		PASSES

Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	9900	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1215	0.31	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
MHP-2	System 6				Constant Volume Air Cooled Split System < 65000 Btu/hr		No. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	29800	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	9900	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1215	0.31	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
MHP-3	System 7				Constant Volume Air Cooled Split System < 65000 Btu/hr		No. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	29800	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	9900	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1215	0.31	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES

MHP-4		System 8		Constant Volume Air Cooled Split System < 65000 Btu/hr			No. of Units
							1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 45000 Btu/h Cooling Capacity	29800	15.37	14.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	9900	9.18	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1215	0.31	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
OAU-1		System 9		Constant Volume Packaged System			No. of Units
							1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	184000	11.00	11.00	12.40	12.40	PASSES
Heating System	Electric Furnace	95564	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2005	0.18	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00				PASSES
							PASSES

Plant Compliance								
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
								None

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Water Heater Compliance								
Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance	
GWH-1	Gas Storage water heater	Unknown	0.95		750.00		Not Checked	
								Not Checked

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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	
Domestic and Service Hot Water Systems	2.50	False	139.00	0.28	1.50	1.00	PASSES	
Domestic and Service Hot Water Systems	0.50	False	105.00	0.28	1.50	0.50	PASSES	
								PASSES

Mandatory Requirements (as applicable)

Requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted for FBC with permission. Not all may be applicable

Topic	Section	Component	Description	Yes	N/A	Exempt
1. To be checked by Designer or Engineer						
Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.3	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance ≥ 0.55 and thermal emittance ≥ 0.75 or 3-year-aged solar reflectance index ≥ 64.0 .	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fenestration	C402.4.4	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.7	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.8	Mechanical	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.2.4.8.1 and C403.2.4.8.2).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3, C403.3.1, C403.3.2	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3.2	Mechanical	Economizer operation will not increase heating energy use during normal operation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3.3.3	Mechanical	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.3.3.3 for applicable device types and climate zones.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3.3.4	Mechanical	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3.3.5	Mechanical	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.2.4.3 for details.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3.4, C403.3.4.1, C403.3.4.2, C403.3.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.3.1	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.3.2	Mechanical	Multiple-cell heat rejection equipment with variable speed fan drives are controlled to operate the maximum number of fans allowed and so that all fans operate at the same fan speed required for the instantaneous cooling duty. The minimum fan speed will be the minimum allowable speed of the fan drive system in accordance with the manufacturer's recommendations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or vairable speed condenser pumps, are designed so that tower cells can run in parallel with larger of flow crteria.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4	Mechanical	Supply air systems serving multiple zones have VAV systems with controls configured to reduce the volume of air that is reheated, recooled or mixed in each zone. See section for details.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4.1	Mechanical	Single-duct VAV systems use terminal devices configured to reduce the supply of primary supply air before reheating or recooling takes place.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4.2	Mechanical	Systems that have 1 warm air duct and 1 cool air duct use terminal devices configured to reduce the flow from one duct to a minimum before mixing of air from the other duct takes place.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4.3	Mechanical	Individual dual-duct or mixing heating and cooling systems with a single fan and with total capacities > 90,000 Btu/h not equipped with air economizers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 40.2 gpm/hp .	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 20.0 gpm/hp.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)c	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 16.1 gpm/hp.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 7.0 gpm/hp	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)e	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 134 kBtu/h-hp w/ Ammonia test fluid.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)f	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 110 kBtu/h-hp w/ Ammonia test fluid.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)g	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 157 kBtu/h-hp w/ R-507A test fluid.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 135 kBtu/h-hp w/ R-507A test fluid.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	Table_C403.3.2(8)i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 176 kBtu/h-hp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.3	Mechanical	Fans have efficiency grade (FEG) ≥ 67 . The total efficiency of the fan at the design point of operation $\leq 15\%$ of maximum total efficiency of the fan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.4	Mechanical	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.5	Mechanical	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. To be checked by Plan Reviewer						
Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	C103.2	Interior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	C103.2	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.2.5	Envelope	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or ≥ 10 inches of soil.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.2.4	Envelope	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.2.6	Project	Radiant heating systems panels insulated to $\geq R-3.5$ on face opposite space being heated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C402.2.6	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.2.6	Envelope	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.13	Mechanical	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.4.7	Mechanical	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.5	Mechanical	Hot water boilers supplying heat via one- or two-pipe systems include outdoor setback control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.6	Mechanical	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC	C403.2.6.1	Mechanical	Demand control ventilation provided for spaces >500 ft ² and >25 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.5.1	Mechanical	Hydronic and multizone HVAC system controls are VAV fans driven by mechanical or electrical variable speed drive per Table C403.2.12.5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.5.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2	Mechanical	The heating of fluids in hydronic systems that have been previously mechanically cooled, and the cooling of fluids that have been previously mechanically heated are limited in accordance with Sections C403.4.2.1-C403.4.2.3. Single boiler systems >500,000 Btu/h have multistaged or modulating burner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.3.2	Mechanical	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.4	Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.5	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.6	Mechanical	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.3.1	Mechanical	Fan systems with total system motor capacity >=5 hp associated with heat rejection equipment configured to automatically modulate the fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.3.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=40.2 gpm/hp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4.6	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment $\geq 1,000$ kBtu/h serves the entire building, thermal efficiency ≥ 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating $\geq 1,000$ kBtu/h, the combined input-capacity-weighted-average thermal efficiency ≥ 90 Et. Exclude input rating of equipment in individual dwelling units and equipment ≤ 100 kBtu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment $\geq 1,000$ kBtu/h serves the entire building, thermal efficiency ≥ 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating $\geq 1,000$ kBtu/h, the combined input-capacity-weighted-average thermal efficiency ≥ 90 Et. Exclude input rating of equipment in individual dwelling units and equipment ≤ 100 kBtu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.4	Mechanical	All piping insulated in accordance with section details and Table C403.2.10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.5, C404.5.1, C404.5.2	Mechanical	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.6.3	Mechanical	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to ≤ 5 minutes after end of heating cycle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.7	Mechanical	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	C405.4.1	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	C405.5.2	Project	Group R-2 dwelling units have separate electrical meters.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. To be checked by Inspector						
Insulation	C303.1	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is ≤ 3 in 12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.2.2	Envelope	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roor/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.2.2	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.2, C402.2.5	Envelope	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Insulation	C303.2.1	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C402.1.3	Envelope	Non-swinging opaque doors have R-4.75 insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C104	Envelope	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C104	Envelope	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C104	Envelope	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5	Envelope	Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage ≤ 0.40 cfm/ft ² .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.1.2.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability ≤ 0.004 dfm/ft ² . Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.1.2.2	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and average assembly air leakage ≤ 0.04 cfm/ft ² . Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.2, C402.5.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close. Refernce section C403.2.4.3 for operational details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.1	Mechanical	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.10	Mechanical	HVAC piping insulation insulated in accordance with Table C403.2.10. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	C403.2.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity \geq 1100 gpm meets minimum efficiency requirement: \geq 38.2 gpm/hp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.1.3	Mechanical	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.2.1, C403.2.4.2.2	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.4.2.3	Mechanical	Systems include optimum start controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.5, C403.2.4.6	Mechanical	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.6.2	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C403.2.4.3	Mechanical	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.9.1, C403.2.9.2	Mechanical	HVAC ducts and plenums insulated in accordance with C403.2.9.1 and constructed in accordance with C403.2.9.2, verification may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.5.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint \leq 1.2 w.c..	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband \geq 15 °F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to \leq 30 °F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system $>$ 10 hp is off.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.4.7	Mechanical	Parallel-flow fan-powered VAV air terminals have automatic controls configured to 1) turn off the terminal fan except when space heating is required or where required for ventilation, 2) turn on the terminal fan as the first stage of heating before the heating coil is activated, and 3) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or, reverse the terminal damper logic and provide heating from the central air handler by primary air.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.5.3	Mechanical	Systems with DDC of individual zones reporting to the central control panel configured to reset the static pressure setpoint based on zone requiring the most pressure. The DDC is capable of monitoring zone damper positions or have an alternative method of indicating the need for static pressure. See section for details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	C403.2.12.5.2	Mechanical	Static pressure sensors used to control VAV fans located such that the controller setpoint is <= 1.2 inches w.c.. Where this results in one or more sensors being located downstream of major duct splits, not less than one sensor located on each major branch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.5	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.6	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.6.1	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.6.1, C404.6.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.9.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.9.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.1, C405.2.1.1	Interior Lighting	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.1.2	Interior Lighting	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.1.3	Interior Lighting	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.2, C405.2.2.1, C405.2.2.2	Interior Lighting	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Controls	C405.2.2.2	Interior Lighting	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern \geq 50 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.3, C405.2.3.1, C405.2.3.2	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.4	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	C405.2.4	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.6	Exterior Lighting	Exterior lighting systems shall be provided with controls that comply with Sections C405.2.6.1 through C405.2.6.4. Decorative lighting systems shall comply with Sections C405.2.6.1, C405.2.6.2, and C405.2.6.4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	C405.3.1	Interior Lighting	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandatory Additional Eff	C406.4	Project	Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2: Luminaires capable of continuous dimming and being addressed individually, \leq 8 luminaires controlled in combination in a daylight zone, digital control system for fixtures, "Sequence of Operations" documentation, and functional testing per Section C408.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandatory Additional Eff	C406.6	Project	Dedicate outdoor air system efficiency package: Buildings with hydronic and/or multiple-zone HVAC systems are equipped with an independent ventilation system designed to provide \geq 100-percent outdoor air to each individual occupied space, as specified by the IMC. The ventilation system is capable of total energy recovery and includes HVAC system controls that manage temperature resets \geq 25 percent of delta design supply-air / room-air temp. Reference section C406.6 for qualifying systems/equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandatory Additional Eff	C406.7, C406.7.1	Project	Enhanced Service Water Heat System efficiency package. One of the following SWH system enhancements must satisfy 60 percent of buildings annual hot water requirements, or 100 percent if the building requirements otherwise complies with heat recovery per Section C403.9.5: Waste heat recovery (from SWH, process equipment, OR on-site renewable water-heating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Testing	C408.2.3.2	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC	C403.2.14, C403.2.14.1, C403.2.14.2	Mechanical	Commercial refrigerators, freezers, refrigerator-freezers and refrigeration equipment, defined in U.S. 10 CFR part 431.62, shall have an energy use in kWh/day not greater than the values of Table C403.2.14.1(1) when tested and rated in accordance with AHRI Standard 1200. Walk-in cooler and walk-in freezer refrigeration systems, except for walk-in process cooling refrigeration systems as defined in U.S. 10 CFR 431.302, shall meet the requirements of Tables C403.2.14.2(1), C403.2.14.2(2) and C403.2.14.2(3).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy						
Post Construction	C408.1.1, C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.1.1, C408.2.5.3	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	C402.4.2.2	Envelope	Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.1.1	Project	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.3.1	Mechanical	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C405.6	Project	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C405.7	Project	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C405.8.2, C405.8.2.1	Project	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	C405.5.3	Project	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Input Data Report

Project Information

Project Name: 2020-025

Project Title: South Walton Mosquito Control Admin.

Address: 774 North County Highway 393

State: FL

Zip: 32459

Owner: Enter Owner's name here

Building Type: Office

Building Classification: New Finished building

No. of Stories: 1

GrossArea (SF): 10,165

Bldg. Rotation: None

Zones

No	Acronym	Description	Type	Area [sf]	Multi	Total Area [sf]	
1	AHU-1	Zone 1	CONDITIONED	2207.7	1	2207.7	<input type="checkbox"/>
2	AHU-2	Zone 2	CONDITIONED	970.9	1	970.9	<input type="checkbox"/>
3	AHU-3	Zone 3	CONDITIONED	3853.8	1	3853.8	<input type="checkbox"/>
4	AHU-4	Zone 4	CONDITIONED	2115.1	1	2115.1	<input type="checkbox"/>
5	WM-1.1	Zone 5	CONDITIONED	570.7	1	570.7	<input type="checkbox"/>
6	WM-2.1	Zone 6	CONDITIONED	199.4	1	199.4	<input type="checkbox"/>
7	WM-3.1	Zone 7	CONDITIONED	106.5	1	106.5	<input type="checkbox"/>
8	WM-4.1	Zone 8	CONDITIONED	139.7	1	139.7	<input type="checkbox"/>
9	OAU-1	Zone 9	CONDITIONED	1.0	1	1.0	<input type="checkbox"/>

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Mult	Total Area [sf]	Total Vol[cf]	
In Zone: AHU-1										
1	001	ENTRY LOBBY	Lobby (General) - Reception and Waiting	21.40	21.40	10.00	1	458.0	4579.6	<input type="checkbox"/>
2	005	ADMIN ASSISTANT	Office - Enclosed	10.94	10.94	10.00	1	119.7	1196.8	<input type="checkbox"/>
3	007	OFFICE COORD.	Office - Enclosed	14.15	14.15	10.00	1	200.2	2002.2	<input type="checkbox"/>
4	009	CONFERENCE ROOM	Conference/meeting (Multiple Functions)	22.11	22.11	10.00	1	488.9	4888.5	<input type="checkbox"/>
5	011	FUTURE OFFICE	Office - Enclosed	14.15	14.15	10.00	1	200.2	2002.2	<input type="checkbox"/>
6	013	OPS MANAGER	Office - Enclosed	14.15	14.15	10.00	1	200.2	2002.2	<input type="checkbox"/>
7	014	DIRECTOR'S OFFICE	Office - Enclosed	17.89	17.89	10.00	1	320.1	3200.5	<input type="checkbox"/>
8	C01	CORRIDOR (S)	Corridor	14.85	14.85	10.00	1	220.5	2205.2	<input type="checkbox"/>
In Zone: AHU-2										
1	002	BOARD ROOM	Conference/meeting (Multiple Functions)	31.16	31.16	10.00	1	970.9	9709.5	<input type="checkbox"/>
In Zone: AHU-3										
1	003	CHAIR STORAGE	Storage & Warehouse - Inactive Storage	9.37	9.37	10.00	1	87.8	878.0	<input type="checkbox"/>
2	004	RESTROOM	Toilet and Washroom	7.23	7.23	10.00	1	52.3	522.7	<input type="checkbox"/>
3	006	MEZZ. ACCESS	Corridor	7.87	7.87	10.00	1	61.9	619.4	<input type="checkbox"/>
4	008	WORK/SUPPLY ROOM	Storage & Warehouse - Inactive Storage	15.86	15.86	10.00	1	251.5	2515.4	<input type="checkbox"/>
5	024	WOMENS RESTROOM	Toilet and Washroom	20.21	20.21	10.00	1	408.4	4084.4	<input type="checkbox"/>
6	025	ENT. OFFICE	Office - Enclosed	13.27	13.27	10.00	1	176.1	1760.9	<input type="checkbox"/>
7	025	MENS RESTROOM	Toilet and Washroom	20.55	20.55	10.00	1	422.3	4223.0	<input type="checkbox"/>
8	026	TRAP ROOM	Office - Enclosed	12.26	12.26	10.00	1	150.3	1503.1	<input type="checkbox"/>
9	028	BREAKROOM	Food Service - Bar/Lounge	20.63	20.63	10.00	1	425.6	4256.0	<input type="checkbox"/>
10	029	LAUNDRY	Laundry-Washing	96.00	9.60	10.00	1	921.6	9216.0	<input type="checkbox"/>
11	C01	CORRIDOR (N)	Corridor	14.85	14.85	10.00	1	220.5	2205.2	<input type="checkbox"/>
12	C02	CORRIDOR	Corridor	15.06	15.06	10.00	1	226.8	2268.0	<input type="checkbox"/>
13	C04	CORRIDOR (N)	Corridor	15.99	15.99	10.00	1	255.7	2556.8	<input type="checkbox"/>
14	C05	CORRIDOR	Corridor	13.89	13.89	10.00	1	192.9	1929.3	<input type="checkbox"/>
In Zone: AHU-4										
1	010	FILE STORAGE	Storage & Warehouse - Inactive Storage	13.30	13.30	10.00	1	176.9	1768.9	<input type="checkbox"/>
2	016	OPERATOR OFFICE	Office - Enclosed	15.19	15.19	10.00	1	230.7	2307.4	<input type="checkbox"/>
3	017	OPERATOR OFFICE	Office - Enclosed	14.46	14.46	10.00	1	209.1	2090.9	<input type="checkbox"/>
4	018	MOSQUITO TECHS.	Office - Open Plan	24.18	24.18	10.00	1	584.7	5846.7	<input type="checkbox"/>
5	019	OPS PLANNING	Office - Open Plan	15.87	15.87	10.00	1	251.9	2518.6	<input type="checkbox"/>
6	020	FIELD SUPERVISOR	Office - Enclosed	12.66	12.66	10.00	1	160.3	1602.8	<input type="checkbox"/>

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7	C03	CORRIDOR	Corridor	15.68	15.68	10.00	1	245.9	2458.6	<input type="checkbox"/>
8	C04	CORRIDOR (S)	Corridor	15.99	15.99	10.00	1	255.7	2556.8	<input type="checkbox"/>
In Zone:		WM-1.1								
1	021	ARTHOPOD/ENT. LAB	Laboratory for Medical/Industrial/research	23.89	23.89	10.00	1	570.7	5707.3	<input type="checkbox"/>
In Zone:		WM-2.1								
1	022	INSECTORY	Laboratory for Medical/Industrial/research	14.12	14.12	10.00	1	199.4	1993.7	<input type="checkbox"/>
In Zone:		WM-3.1								
1	031	DATA/IT	Electrical Mechanical Equipment Room - General	10.32	10.32	10.00	1	106.5	1065.0	<input type="checkbox"/>
In Zone:		WM-4.1								
1	030	JANITOR	Storage & Warehouse - Inactive Storage	11.82	11.82	10.00	1	139.7	1397.1	<input type="checkbox"/>
In Zone:		OAU-1								
1	DUMMY	Zo0Sp1	Electrical Mechanical Equipment Room - General	1.00	1.00	1.00	1	1.0	1.0	<input type="checkbox"/>

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts	
In Zone: AHU-1								
In Space: 001								
1	LED	General Lighting	3	58	174	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	2	14	28	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 005								
1	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 007								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 009								
1	LED	General Lighting	2	109	218	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 011								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 013								
1	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 014								
1	LED	General Lighting	5	34	169	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C01								
1	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	2	5	10	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: AHU-2								
In Space: 002								
1	LED	General Lighting	4	95	381	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>

2	LED	General Lighting	1	61	61	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: AHU-3								
In Space: 003								
1	LED	General Lighting	2	20	39	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 004								
1	LED	General Lighting	1	14	14	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 006								
1	LED	General Lighting	1	20	20	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 008								
1	LED	General Lighting	5	34	169	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 024								
1	LED	General Lighting	8	14	111	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	2	14	28	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 025								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 025								
1	LED	General Lighting	8	14	111	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	2	14	28	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 026								
1	LED	General Lighting	2	20	39	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	20	20	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 028								
1	LED	General Lighting	5	34	169	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 029								
1	LED	General Lighting	1	20	20	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C01								
1	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	21	21	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C02								
1	LED	General Lighting	3	21	64	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>

2	LED	General Lighting	1	21	21	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C04								
1	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C05								
1	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	21	21	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: AHU-4								
In Space: 010								
1	LED	General Lighting	2	34	67	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 016								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 017								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 018								
1	LED	General Lighting	10	34	337	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	2	34	67	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 019								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: 020								
1	LED	General Lighting	3	34	101	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	34	34	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C03								
1	LED	General Lighting	3	21	64	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	21	21	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Space: C04								
1	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>

2	LED	General Lighting	2	21	43	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
3	LED	General Lighting	1	5	5	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: WM-1.1								
In Space: 021								
1	LED	General Lighting	8	20	158	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	3	20	59	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: WM-2.1								
In Space: 022								
1	LED	General Lighting	3	20	59	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	20	20	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: WM-3.1								
In Space: 031								
1	LED	General Lighting	2	20	39	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
2	LED	General Lighting	1	20	20	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: WM-4.1								
In Space: 030								
1	LED	General Lighting	3	20	59	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>
In Zone: OAU-1								
In Space: DUMMY								
1	LED	General Lighting	1	1	1	Occupancy Sensor with Timer without Daylighting	1	<input type="checkbox"/>

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Orient ation	Cond- uctance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:		AHU-1										
1	Pr0ZolWal	W1 LOWER	6.50	6.50	1	42.3	North	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
2	Pr0ZolWal	W1 LOWER	10.74	10.74	1	115.3	South	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
3	Pr0ZolWal	W1 LOWER	18.37	18.37	1	337.5	West	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
4	Pr0ZolWal	W1 UPPER	12.35	12.35	1	152.5	North	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
5	Pr0ZolWal	W1 UPPER	20.40	20.40	1	416.2	South	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
6	Pr0ZolWal	W1 UPPER	34.91	34.91	1	1218.7	West	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
In Zone:		AHU-2										
1	Pr0ZolWal	W1 LOWER	9.72	9.72	1	94.5	North	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
2	Pr0ZolWal	W1 UPPER	18.48	18.48	1	341.5	North	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
In Zone:		AHU-3										
1	Pr0ZolWal	W1 LOWER	12.12	12.12	1	146.9	North	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
2	Pr0ZolWal	W1 LOWER	11.05	11.05	1	122.1	East	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
3	Pr0ZolWal	W1 UPPER	23.03	23.03	1	530.4	North	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
4	Pr0ZolWal	W1 UPPER	20.99	20.99	1	440.6	East	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
In Zone:		AHU-4										
1	Pr0ZolWal	W1 LOWER	12.64	12.64	1	159.8	South	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
2	Pr0ZolWal	W1 LOWER	11.76	11.76	1	138.3	East	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
3	Pr0ZolWal	W1 UPPER	24.01	24.01	1	576.5	South	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
4	Pr0ZolWal	W1 UPPER	22.35	22.35	1	499.5	East	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
In Zone:		WM-1.1										
1	Pr0ZolWal	W1 LOWER	8.77	8.77	1	76.9	East	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
2	Pr0ZolWal	W1 UPPER	16.67	16.67	1	277.9	East	0.3975	8.961	61.44	2.5	<input type="checkbox"/>
In Zone:		WM-3.1										
1	Pr0ZolWal	W1 LOWER	4.72	4.72	1	22.3	North	0.2779	6.031	28.04	3.6	<input type="checkbox"/>
2	Pr0ZolWal	W1 UPPER	8.96	8.96	1	80.3	East	0.3975	8.961	61.44	2.5	<input type="checkbox"/>

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: AHU-1											
In Wall: N - W1 UPPER											
1	Pr0Zo1Wa4Wi1	North	No	0.3500	0.23	0.76	6.50	5.33	1	34.6	<input type="checkbox"/>
In Wall: S - W1 UPPER											
1	Pr0Zo1Wa5Wi1	South	No	0.3500	0.23	0.76	3.33	5.33	1	17.7	<input type="checkbox"/>
2	Pr0Zo1Wa4Wi1	South	No	0.3500	0.23	0.76	6.50	5.33	1	34.6	<input type="checkbox"/>
3	Pr0Zo1Wa5Wi3	South	No	0.3500	0.23	0.76	3.74	3.74	1	14.0	<input type="checkbox"/>
In Wall: W - W1 UPPER											
1	Pr0Zo1Wa5Wi1	West	No	0.3500	0.23	0.76	3.33	5.33	4	71.0	<input type="checkbox"/>
2	Pr0Zo1Wa4Wi1	West	No	0.3500	0.23	0.76	6.50	5.33	2	69.3	<input type="checkbox"/>
3	Pr0Zo1Wa4Wi1	West	No	0.3500	0.23	0.76	9.83	7.33	1	72.1	<input type="checkbox"/>
4	Pr0Zo1Wa5Wi3	West	No	0.3500	0.23	0.76	6.16	6.16	1	37.9	<input type="checkbox"/>
In Zone: AHU-2											
In Wall: N - W1 UPPER											
2	Pr0Zo1Wa5Wi1	North	No	0.3500	0.23	0.76	3.33	5.33	1	17.7	<input type="checkbox"/>
3	Pr0Zo1Wa5Wi3	North	No	0.3500	0.23	0.76	3.74	3.74	1	14.0	<input type="checkbox"/>
In Zone: AHU-3											
In Wall: E - W1 UPPER											
1	Pr0Zo1Wa5Wi1	East	No	0.3500	0.23	0.76	3.33	5.33	4	71.0	<input type="checkbox"/>
4	Pr0Zo1Wa5Wi3	East	No	0.3500	0.23	0.76	3.74	3.74	1	14.0	<input type="checkbox"/>
In Wall: N - W1 UPPER											
2	Pr0Zo1Wa5Wi1	North	No	0.3500	0.23	0.76	3.33	5.33	2	35.5	<input type="checkbox"/>
3	Pr0Zo1Wa4Wi1	North	No	0.3500	0.23	0.76	6.50	5.33	1	34.6	<input type="checkbox"/>
4	Pr0Zo3Wa3Wi4	North	No	0.3500	0.23	0.76	4.29	4.29	1	18.4	<input type="checkbox"/>
In Zone: AHU-4											
In Wall: E - W1 UPPER											
1	Pr0Zo1Wa5Wi1	East	No	0.3500	0.23	0.76	3.33	5.33	1	17.7	<input type="checkbox"/>
In Wall: S - W1 UPPER											
1	Pr0Zo1Wa5Wi1	South	No	0.3500	0.23	0.76	3.33	5.33	2	35.5	<input type="checkbox"/>
2	Pr0Zo1Wa4Wi1	South	No	0.3500	0.23	0.76	9.67	5.33	1	51.5	<input type="checkbox"/>
3	Pr0Zo1Wa5Wi3	South	No	0.3500	0.23	0.76	4.29	4.29	1	18.4	<input type="checkbox"/>
In Zone: WM-1.1											
In Wall: E - W1 UPPER											
1	Pr0Zo1Wa5Wi1	East	No	0.3500	0.23	0.76	3.33	5.33	1	17.7	<input type="checkbox"/>
In Zone: WM-3.1											
In Wall: N - W1 UPPER											
1	Pr0Zo1Wa5Wi1	East	No	0.3500	0.23	0.76	3.33	5.33	1	17.7	<input type="checkbox"/>

Doors

No	Description	Type	Shade?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F]	Dens. [lb/cf]	Ht Cap. [Btu/sf. F]	R [h.sf.F/ Btu]
In Zone: AHU-1											
In Wall: S - W1 UPPER											
1	Pr0Zo1Wa5Dr1	DOOR	No	3.40	10.00	1	34.0	0.0800	0.00	0.00	12.50 <input type="checkbox"/>
In Wall: W - W1 UPPER											
1	Pr0Zo1Wa5Dr1	DOOR	No	6.40	10.00	1	64.0	0.0800	0.00	0.00	12.50 <input type="checkbox"/>
In Zone: AHU-2											
In Wall: N - W1 UPPER											
1	Pr0Zo1Wa5Dr1	DOOR	No	3.40	10.00	1	34.0	0.0800	0.00	0.00	12.50 <input type="checkbox"/>
In Zone: AHU-3											
In Wall: N - W1 UPPER											
1	Pr0Zo3Wa3Dr1	DOOR	No	4.80	10.00	1	48.0	0.0800	0.00	0.00	12.50 <input type="checkbox"/>
In Wall: E - W1 UPPER											
1	Pr0Zo1Wa5Dr1	DOOR	No	3.40	10.00	1	34.0	0.0800	0.00	0.00	12.50 <input type="checkbox"/>
In Zone: AHU-4											
In Wall: S - W1 UPPER											
1	Pr0Zo1Wa5Dr1	DOOR	No	4.80	10.00	1	48.0	0.0800	0.00	0.00	12.50 <input type="checkbox"/>

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Tilt [deg]	Cond. [Btu/h.Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: AHU-1												
1	Pr0ZolRfl	ROOF 1	12.53	12.53	1	157.0	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
2	Pr0ZolRfl	ROOF 1	7.79	7.79	1	60.7	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
3	Pr0ZolRfl	ROOF 1	16.39	16.39	1	268.6	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
4	Pr0ZolRfl	ROOF 1	18.99	18.99	1	360.6	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
5	Pr0ZolRfl	ROOF 1	40.17	40.14	1	1612.4	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
In Zone: AHU-2												
1	Pr0ZolRfl	ROOF 1	15.67	15.67	1	245.5	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
2	Pr0ZolRfl	ROOF 1	15.29	15.29	1	233.8	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
3	Pr0ZolRfl	ROOF 1	21.35	21.35	1	455.8	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
In Zone: AHU-3												
1	Pr0ZolRfl	ROOF 1	17.94	17.94	1	321.8	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
2	Pr0ZolRfl	ROOF 1	19.99	19.99	1	399.6	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
3	Pr0ZolRfl	ROOF 1	16.53	16.53	1	273.2	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
4	Pr0ZolRfl	ROOF 1	21.79	21.49	1	468.3	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
5	Pr0ZolRfl	ROOF 1	30.20	30.20	1	912.0	12.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
6	Pr0ZolRfl	UNDER MEZZ.	21.77	21.77	1	473.9	27.00	0.0677	1.46	11.35	14.8	<input type="checkbox"/>
7	Pr0ZolRfl	UNDER MEZZ.	20.16	20.16	1	406.4	27.00	0.0677	1.46	11.35	14.8	<input type="checkbox"/>
8	Pr0ZolRfl	UNDER MEZZ.	19.09	19.09	1	364.4	12.00	0.0677	1.46	11.35	14.8	<input type="checkbox"/>
In Zone: AHU-4												
1	Pr0ZolRfl	ROOF 1	10.93	10.93	1	119.5	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
2	Pr0ZolRfl	ROOF 1	18.73	18.43	1	345.2	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
3	Pr0ZolRfl	ROOF 1	9.38	9.38	1	88.0	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
4	Pr0ZolRfl	ROOF 1	40.76	40.76	1	1661.4	12.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
In Zone: WM-1.1												
1	Pr0ZolRfl	ROOF 1	24.15	24.15	1	583.2	12.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
In Zone: WM-2.1												
1	Pr0ZolRfl	ROOF 1	14.27	14.27	1	203.6	12.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
In Zone: WM-3.1												
1	Pr0ZolRfl	ROOF 1	4.45	4.45	1	19.8	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
2	Pr0ZolRfl	ROOF 1	8.13	8.13	1	66.1	23.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
In Zone: WM-4.1												
1	Pr0ZolRfl	ROOF 1	10.89	10.89	1	118.6	27.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>
2	Pr0ZolRfl	ROOF 1	5.86	5.86	1	34.3	12.00	0.0724	0.94	8.96	13.8	<input type="checkbox"/>

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multi- plier	Area [Sf]	Total Area [Sf]
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In Zone:

In Roof:

Floors

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

Systems

HP-1	System 1	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units
1					
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	38100.00	14.60	8.00	<input type="checkbox"/>
2	Heating System	16600.00	7.80		<input type="checkbox"/>
3	Air Handling System -Supply	1580.00	0.35		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

HP-2	System 2	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units
1					
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24200.00	14.60	8.00	<input type="checkbox"/>
2	Heating System	3800.00	7.80		<input type="checkbox"/>
3	Air Handling System -Supply	1045.00	0.36		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

HP-3	System 3	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units
1					
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	31400.00	14.60	8.00	<input type="checkbox"/>
2	Heating System	11000.00	7.80		<input type="checkbox"/>
3	Air Handling System -Supply	1235.00	0.30		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

HP-4	System 4	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units
1					
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	29800.00	14.60	8.00	<input type="checkbox"/>
2	Heating System	9900.00	7.80		<input type="checkbox"/>
3	Air Handling System -Supply	1215.00	0.31		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

MHP-1		System 5		Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units
						1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	29800.00	14.60	8.00	<input type="checkbox"/>	
2	Heating System	9900.00	7.80		<input type="checkbox"/>	
3	Air Handling System -Supply	1215.00	0.31		<input type="checkbox"/>	
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>	
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>	
MHP-2		System 6		Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units
						1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	29800.00	14.60	8.00	<input type="checkbox"/>	
2	Heating System	9900.00	7.80		<input type="checkbox"/>	
3	Air Handling System -Supply	1215.00	0.31		<input type="checkbox"/>	
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>	
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>	
MHP-3		System 7		Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units
						1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	29800.00	14.60	8.00	<input type="checkbox"/>	
2	Heating System	9900.00	7.80		<input type="checkbox"/>	
3	Air Handling System -Supply	1215.00	0.31		<input type="checkbox"/>	
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>	
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>	
MHP-4		System 8		Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units
						1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	29800.00	14.60	8.00	<input type="checkbox"/>	
2	Heating System	9900.00	7.80		<input type="checkbox"/>	
3	Air Handling System -Supply	1215.00	0.31		<input type="checkbox"/>	
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>	
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>	
OAU-1		System 9		Constant Volume Packaged System		No. Of Units
						1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	184000.00	11.00	12.40	<input type="checkbox"/>	
2	Heating System	95564.00	1.00		<input type="checkbox"/>	
3	Air Handling System -Supply	2005.00	0.18		<input type="checkbox"/>	
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>	

Plant

Equipment	Category	Size	Inst.NoEff.	IPLV
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Water Heaters

W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss
1 Gas Storage water heater (1 units)	50 [Gal]		130000 [Btu/h]	0.9500 [Ef/Et]	750.0000[Btu/h] <input type="checkbox"/>

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaires	Area/Len/No [sf/ft/No]	Control Type	Wattage [W]	
1 WB (DOORS)	Main entries	8	16	27.00	Astronomical Timer C	128.00	<input type="checkbox"/>
2 WB (NORTH SIDE)	Walkways more that 10 feet wide	2	16	337.34	Astronomical Timer C	32.00	<input type="checkbox"/>
3 Ext Light 3	Building facades (by linear foot)	3	16	40.50	Astronomical Timer C	48.00	<input type="checkbox"/>

Piping

No	Type	Operating Temp [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Domestic and Service Hot Water Systems	139.00	0.28	2.50	1.50	No <input type="checkbox"/>
2	Domestic and Service Hot Water Systems	105.00	0.28	0.50	1.50	No <input type="checkbox"/>

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
WINDOW	User Defined	2	0.3500	0.2290	0.7600
DOOR	User Defined	2	0.3500	0.2290	0.7600
WINDOW					

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thick [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	Sp. Heat [Btu/lb.F]	
1001	ApLbMat1001	INSIDE	Yes	0.6850					<input type="checkbox"/>
1002	ApLbMat1002	0.625IN GYP	No	0.0292	0.0521	1.7856	50.00	0.2000	<input type="checkbox"/>
1003	ApLbMat1003	AIR SPACE	Yes	0.9100					<input type="checkbox"/>
1004	ApLbMat1004	0.5IN PLYWOOD	No	0.0259	0.0417	1.6080	34.00	0.2900	<input type="checkbox"/>
1005	ApLbMat1005	8IN LW CONCRETE BLOCK	No	1.3475	0.6670	0.4950	38.00	0.2000	<input type="checkbox"/>
1006	ApLbMat1006	4IN BRICK	No	0.2645	0.3333	1.2600	120.00	0.2000	<input type="checkbox"/>
1007	ApLbMat1007	R-13 BATT INSULATION	No	0.2681	0.2917	1.0881	0.50	0.2000	<input type="checkbox"/>
1008	ApLbMat1008	OUTSIDE	Yes	0.3330					<input type="checkbox"/>
1009	ApLbMat1009	R-30 BOARD INSULATION	No	12.5135	0.4167	0.0333	2.00	0.2200	<input type="checkbox"/>
1010	ApLbMat1010	22 GAGE STEEL DECK	No	0.0001	0.0028	26.0000	489.00	0.1200	<input type="checkbox"/>
1011	ApLbMat1011	0.625IN PLYWOOD	No	0.0403	0.0521	1.2927	34.00	0.2900	<input type="checkbox"/>
1012	ApLbMat1012	ACOUSTICAL TILE	No	0.0140	0.0208	1.4815	21.00	0.1900	<input type="checkbox"/>

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1060	W1 LOWER	No	No	0.28	6.03	28.04	3.6	<input type="checkbox"/>

Layer	Material No.	Material	Thickness [ft]	Framing Factor	<input type="checkbox"/>
1	1008	OUTSIDE		0.000	<input type="checkbox"/>
2	1005	8IN LW CONCRETE BLOCK	0.6670	0.000	<input type="checkbox"/>
3	1004	0.5IN PLYWOOD	0.0417	0.000	<input type="checkbox"/>
4	1003	AIR SPACE		0.000	<input type="checkbox"/>
5	1007	R-13 BATT INSULATION	0.2917	0.000	<input type="checkbox"/>
6	1002	0.625IN GYP	0.0521	0.000	<input type="checkbox"/>
7	1001	INSIDE		0.000	<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1061	W1 UPPER	No	No	0.40	8.96	61.44	2.5	<input type="checkbox"/>

Layer	Material No.	Material	Thickness [ft]	Framing Factor	<input type="checkbox"/>
1	1008	OUTSIDE		0.000	<input type="checkbox"/>
2	1006	4IN BRICK	0.3333	0.000	<input type="checkbox"/>
3	1004	0.5IN PLYWOOD	0.0417	0.000	<input type="checkbox"/>
4	1003	AIR SPACE		0.000	<input type="checkbox"/>
5	1007	R-13 BATT INSULATION	0.2917	0.000	<input type="checkbox"/>
6	1002	0.625IN GYP	0.0521	0.000	<input type="checkbox"/>
7	1001	INSIDE		0.000	<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1062	DOOR	Yes	Yes	0.08			12.5	<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1063	ROOF 1	No	No	0.07	0.94	8.96	13.8	<input type="checkbox"/>
	Layer	Material No.	Material	Thickness [ft]		Framing Factor		
	1	1008	OUTSIDE			0.000		<input type="checkbox"/>
	2	1010	22 GAGE STEEL DECK	0.0028		0.000		<input type="checkbox"/>
	3	1009	R-30 BOARD INSULATION	0.4167		0.000		<input type="checkbox"/>
	4	1011	0.625IN PLYWOOD	0.0521		0.000		<input type="checkbox"/>
	5	1003	AIR SPACE			0.000		<input type="checkbox"/>
	6	1012	ACOUSTICAL TILE	0.0208		0.000		<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1064	UNDER MEZZ.	No	No	0.07	1.46	11.35	14.8	<input type="checkbox"/>
	Layer	Material No.	Material	Thickness [ft]		Framing Factor		
	1	1008	OUTSIDE			0.000		<input type="checkbox"/>
	2	1010	22 GAGE STEEL DECK	0.0028		0.000		<input type="checkbox"/>
	3	1009	R-30 BOARD INSULATION	0.4167		0.000		<input type="checkbox"/>
	4	1011	0.625IN PLYWOOD	0.0521		0.000		<input type="checkbox"/>
	5	1003	AIR SPACE			0.000		<input type="checkbox"/>
	6	1011	0.625IN PLYWOOD	0.0521		0.000		<input type="checkbox"/>
	7	1003	AIR SPACE			0.000		<input type="checkbox"/>
	8	1012	ACOUSTICAL TILE	0.0208		0.000		<input type="checkbox"/>