# Florida Building Code, Seventh Edition (2020) - Energy Conservation

EnergyGauge Summit® Fla/Com-2020, Effective Date: Dec 31, 2020 C401.2.1: ASHRAE Energy Cost Budget Option Compliance applying ASHRAE Section 11

	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 contigous part of the compliance report.						
	Boxes appropriately checked in the Mandatory Section of the complaince report.						
To inclu the box	ING: INPUT REPORT NOT GENERATED. ude input report in final submission, go to the Project Form, Settings Tab and check < - "Append Input Report to Compliance Output Report" erun your calculation						

No of Stories: 1Area entered from Plans6537 SFPermit No: 0Max Tonnage12.7If different, write in:	Short Desc:	23136	Description:	Golf House
Address2:State:FLAddress2:State:FLZip:33455Type:RetailClass:Jurisdiction:MARTIN COUNTY, MARTIN COUNTY, FL (531000)Conditioned Area:6485 SFConditioned & UnConditioned Area:6485 SFConditioned & UnConditioned Area:6537 SFNo of Stories:1Area entered from Plans6537 SFMax Tonnage12.7	Owner:	Atlantic Fields		
Zip:33455Type:RetailClass:New Finished buildingJurisdiction:MARTIN COUNTY, MARTIN COUNTY, FL (531000)6537 SFConditioned Area:6485 SFConditioned & UnConditioned Area:6537 SFNo of Stories:1Area entered from Plans6537 SFPermit No:0Max Tonnage12.7If different, write in:	Address1:	2645 SE Bridge Rd	City:	Hobe Sound
Type:RetailClass:New Finished buildingJurisdiction:MARTIN COUNTY, MARTIN COUNTY, FL (531000)537 SFConditioned Area:6485 SFConditioned & UnConditioned Area:6537 SFNo of Stories:1Area entered from Plans6537 SFPermit No:0Max Tonnage12.7If different, write in:	Address2:		State:	FL
Jurisdiction:       MARTIN COUNTY, MARTIN COUNTY, FL (531000)         Conditioned Area:       6485 SF         Conditioned & UnConditioned Area:       6537 SF         No of Stories:       1         Permit No:       0         Max Tonnage       12.7         If different, write in:			Zip:	33455
Conditioned Area:6485 SFConditioned & UnConditioned Area:6537 SFNo of Stories:1Area entered from Plans6537 SFPermit No:0Max Tonnage12.7If different, write in:	Туре:	Retail	Class:	New Finished building
No of Stories: 1Area entered from Plans6537 SFPermit No: 0Max Tonnage12.7If different, write in:	Jurisdiction:	MARTIN COUNTY, MAR	TIN COUNTY, FL (531000)	
Permit No:       0       Max Tonnage       12.7         If different, write in:	Conditioned Area:	6485 SF	Conditioned & UnConditioned Area:	6537 SF
If different, write in:	No of Stories:	1	Area entered from Plans	6537 SF
	Permit No:	0	Max Tonnage	12.7
Building Potation: 350 Deg Clockwise Walls & windows will be rotated accordingly			If different, write in:	
Junung Rotation. 550 Deg Clockwise. Walls & windows will be folated accordingly	uilding Rotation:	350 Deg Clockwise. Walls	& windows will be rotated accordingly	

<b>Compliance Summary</b>									
Component	Design	Criteria	Result						
Gross Energy Cost (in \$)	5,555.0	6,966.0	PASSED						
LIGHTING CONTROLS			PASSES						
EXTERNAL LIGHTING			No Entry						
HVAC SYSTEM			PASSES						
PLANT			No Entry						
WATER HEATING SYSTEMS			No Entry						
PIPING SYSTEMS			No Entry						
Met all required compliance from Check List?			Yes/No/NA						
IMPORTANT MESSAGE Info 5009 An input report of this design buildir Compliance Report	ng must be subr	nitted along w	ith this						

		CERTIFICA	TIONS	
[	This item has been electronically signed and sealed by 11/02/2023 using a Digital Signature Printed copies of this document are not considered signe signature must be verified on any electronic	e. ad and sealed and the		
I hereby certify that Florida Energy Cod	the plans and specification e	ns covered by this	calculation are in complia	nce with the
Prepared By:	Jason Smith	Building Official:		
Date:		Date:		
I certify that this bui	lding is in compliance with	the FLorida Energ	gy Efficiency Code	
Owner Agent:		Date:		
If Required by Flori Efficiency Code	da law, I hereby certify (*) †	that the system de	esign is in compliance with	the Florida Energy
Architect:		Reg No:	Sign	ature
Electrical Designer:	Kyriakos Liatsos	Reg No:	PE #66402 Signature	
Lighting Designer:	Kyriakos Liatsos	Reg No:	PE #66402 Signature	
Mechanical Designer:	Jason Smith	Reg No:	PE #57743 Signature	
Designer:	Jason Smith		PE #57743 Signature	
(*) Signature is req professionals per C	uired where Florida Law re 103.1.1.1.2	equires design to k	be performed by registered	l design

B	uilding End Uses	
	1) Proposed	2) Baseline
ı	353.10	442.80
	\$5,555	\$6,966
ELECTRICITY(MBtu/kWh/\$)	353.10 103450	442.80 129728
AREA LIGHTS	\$5,555	\$6,966 76.50
	10924 \$587	22421 \$1,204
MISC EQUIPMT	54.90 16090	54.90 16090
	\$864	\$864
PUMPS & MISC	0.20 54 <i>\$3</i>	0.30 80 <i>\$4</i>
SPACE COOL	181.70 53237	162.60 47648
	\$2,859	\$2,559
SPACE HEAT	3.20 937 \$50	12.60 3682 <i>\$198</i>
VENT FANS	75.80	135.90 39807
	\$1,193	\$2,138
s Applied: None		PASSES

Description	(	Category Trada	ble? Allowanc	e Area o	r Length	ELPA CLP
-		- •	(W/Unit)	or No.	of Units t or ft)	(W) (W)
						None
roject: 23136 itle: Golf House ype: Retail VEA File: FL_S <sup>-</sup>	ſ_LUCIE_CO	D_INTL.tm3) Lighting Controls	Compliance			
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
100	25,001	Sales Area	1,305	1	1	PASSES
101	5	Corridor	311	1	1	PASSES
102	6	Toilet and Washroom	173	2	1	PASSES
103	6	Toilet and Washroom	176	2	1	PASSES
104		Toilet and Washroom	33	1	1	PASSES
115-W		Food Service - Leisure Dining	948	4	1	PASSES
115-Е		Food Service - Leisure Dining	949	2	1	PASSES
105		Corridor	71	1	1	PASSES
106	7	Food Service - Kitchen	1,512	1	1	PASSES
108	6	Toilet and Washroom	64	1	1	PASSES
110		Corridor	160	1	1	PASSES
112		Electrical Mechanical Equipment Room - General	481	1	1	PASSES
107		Electrical Mechanical Equipment Room - General	41	1	1	PASSES
109		Electrical Mechanical Equipment Room - General	64	1	1	PASSES
111		Storage & Warehouse - Inactive Storage	197	1	1	PASSES
Pr0Zo8Sp1	2	Storage & Warehouse - Inactive Storage	52	1	1	PASSES

### Project: 23136 Title: Golf House Type: Retail (WEA File: FL\_ST\_LUCIE\_CO\_INTL.tm3)

AHU-1	System 1	System Report Compliance Constant Volume Packaged System						
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	81100	13.50	11.00	25.30	12.20	PASSES	
Heating System		80000	4.05	3.30			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	1950	0.80	0.82			Not Required	
AHU-2	System 2		Co Sy	No. of Units				
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	152000	11.70	10.60	24.00	11.60	PASSES	
Heating System		188000	3.61	3.20			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	3250	0.46	0.82			Not Required	
AHU-3	System 3		Constant Volume Packaged System				No. of Units	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Cooled 135000 to 240000	152000	11.70	10.60	24.00	11.60	PASSES	
Heating System	Btu/h Clg Capacity Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	188000	3.61	3.20			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	3250	0.46	0.82			Not Required	

AHU-4	System 4		Constant Volume Packaged System				
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	131100	13.30	11.20	25.40	12.90	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	135000 3000	1.00 0.50	1.00 0.82			PASSES Not Required
AC-5	System 5			nstant Volu lit System <			No. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity	12000	24.60	13.00	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) -	350	0.15	0.82			Not Required
AC-6	System 6			nstant Volu lit System <			No. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Cooled Split System < 65000 Btu/h Cooling	9000	23.10	13.00	8.00		PASSES
Air Handling System -Supply	Capacity Air Handler (Supply) - Constant Volume	300	0.18	0.82			Not Required
AC-7	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	Comp- liance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity	9000	23.10	13.00	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) -	300	0.18	0.82			Not Required

EnergyGauge Summit® Fla/Com-2020. Effective Date: Dec 31, 2020 Florida Building Code, Seventh Edition (2020) - Energy Conservation C401.2.1: ASHRAE Energy Cost Budget Option

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

		Water Heater Compliance									
Description	Туре	Category		Design Eff	Min Eff	Design Loss	Max Loss	Comp liance			
								None			
		]	Piping S	System Co	omplian	ce					
Category		Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hı .SF.F]			eq Ins Compl- ck [in] iance			

## 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

Торіс	Section	Component	-	Yes N/A Exempt
	1. T	o be checked	by Designer or Engineer	
Insulation	5.8.1.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	
Insulation	5.8.1.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	
Insulation	5.5.3.5	Envelope	Slab edge insulation depth/length.	
Insulation	6.4.4.1.5	Envelope	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	
SYSTEM_SPECIFIC	6.5.1, 6.5.1.1, 6.5.1.3, 6.5.1.4	Mechanical	Air economizers provided where required (and not exempted), 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.	
SYSTEM_SPECIFIC	6.5.1, 6.5.1.2, 6.5.1.2.1, 6.5.1.3	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control. Capable if providing 100% of the expected system cooling load when outdoor air <= 50F.	
SYSTEM_SPECIFIC	6.5.1.5	Mechanical	Economizer operation will not increase heating energy use during normal operation.	
SYSTEM_SPECIFIC	6.5.2.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	
SYSTEM_SPECIFIC	6.5.2.2.3	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	
SYSTEM_SPECIFIC	6.5.1.6	Mechanical	Water economizer specified on hydronic cooling and humidification systems designed to maintain inside humidity at >35 °F dewpoint if an economizer is required.	
SYSTEM_SPECIFIC	6.5.3.1.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp	
SYSTEM_SPECIFIC	6.5.3.1.2	Mechanical	or fan system bhp. HVAC fan motors not larger than the first available motor size greater than the bhp.	
HVAC	6.5.6.1	Mechanical	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.	
SYSTEM_SPECIFIC	7.4.2	Mechanical	Service water heating equipment meets efficiency requirements.	
SYSTEM_SPECIFIC	7.5.2	Mechanical	Service water heating equipment used for space heating complies with the service water heating equipment requirements.	
Insulation	5.8.1.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	
Insulation	5.8.1.2	Envelope	Floor insulation installed per manufacturer's instructions.	
Controls	10.4.3	Mechanical	Elevators are designed with the proper lighting, ventilation power, and standby mode.	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=40.2 gpm/hp .	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=20.0 gpm/hp.	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7c	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=16.1 gpm/hp.	

Florida Building Code, Seventh Edition (2020) - Energy Conservation C401.2.1: ASHRAE Energy Cost Budget Option

SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=7.0 gpm/hp	
SYSTEM_SPECIFIC	6.5.5.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7e	Mechanical	minimum efficiency requirement: >=38.2 gpm/hp. Heat Rejection Equipment: Minimum Efficiency Requirement >=176 kBtu/h-hp	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7f	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=157 kBtu/h-hp w/ R-507A test fluid.	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7g	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=134 kBtu/h-hp w/ Ammonia test fluid	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=135 kBtu/h-hp w/ R-507A test fluid.	
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=110 kBtu/h-hp w/ Ammonia test fluid.	
SYSTEM_SPECIFIC	7.5.3	Mechanical	iulu. Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency must be >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating is >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency , thermal efficiency must be >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	
SYSTEM_SPECIFIC	6.5.3.2.4	Mechanical	Return and relief fans used to meet Section 6.5.1.1.5 have relief air rate controlled to maintain building pressure through differential supply-return airflow tracking. Systems with supply fans allowed to control the relief system based on oudoor air damper position. Fans have variable speed control or other devices for managing total return/relief fan system demand per section threshold.	
HVAC	6.5.2.6	Mechanical	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.	
HVAC	6.5.4.7	Mechanical	Chilled-water cooling coils provide a 15°F or higher temperature difference between leaving and entering water temperatures and a minimum of 57°F leaving water temperature at design conditions	
SYSTEM_SPECIFIC	6.5.3.4	Mechanical	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) 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 through primary air.	

[				 	
SYSTEM_SPECIFIC	6.5.3.7	Mechanical	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.		
HVAC	6.8.1-15, 6.8.1-16	Mechanical	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.		
	2	. To be checl	ked by Plan Reviewer		
Plan Review	4.2.2, 5.4.3.1.1, 5.7	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where		
Plan Review	4.2.2, 6.4.4.2.1, 6.7.2	Mechanical	exceptions to the standard are claimed. 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.		
Plan Review	4.2.2, 7.7.1, 10.4.2	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.		
Plan Review	4.2.2, 8.4.1.1, 8.4.1.2, 8.7	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.		
Plan Review	4.2.2, 9.4.3, 9.7	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.		
Plan Review	9.7	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.		
Insulation	5.8.1.7.3	Envelope	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.		
Air Leakage	5.4.3.4	Envelope	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart (>= 16 ft apart for adjoinging floor area >= 40000 sq.ft.). Vestibule floor area <=7 50 sq.ft. or 2 percent of the adjoining conditioned floor area.		

Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights	
Plan Review	5.5.4.2.3	Envelope	have a measured haze value > 90 percent. In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is >= half the floor area and (a) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights have a measured haze value > 90 percent.	
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylight sis >= half the floor area and (a) the skylight vT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights	
Plan Review	5.5.4.2.3	Envelope	have a measured haze value > 90 percent. In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylight is >= half the floor area and (a) the skylight vT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights have a measured haze value > 90 percent.	

EnergyGauge Summit® Fla/Com-2020. Effective Date: Dec 31, 2020 Florida Building Code, Seventh Edition (2020) - Energy Conservation C401.2.1: ASHRAE Energy Cost Budget Option

(				
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylight sis >= half the floor area and (a) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights have a measured haze value > 90 percent. In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylight sis >= half the floor area and (a) the skylight sis >= half the floor area and (a) the skylight sis >= half the floor area and (a) the skylight trae to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights	
HVAC	6.4.3.4.4	Mechanical	have a measured haze value > 90 percent. Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.	
HVAC	6.4.3.8	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	
HVAC	6.4.4.1.4	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	
HVAC	6.5.2.3	Mechanical	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.	
SYSTEM_SPECIFIC	6.5.3.1.3	Mechanical	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	
SYSTEM_SPECIFIC	6.5.3.6	Mechanical	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.	
SYSTEM_SPECIFIC	6.4.3.10	Mechanical	DDC system installed and capable of and configured to provide control logic including monitoring zone and system demand for fan pressure, pump pressure, heating, and cooling; transferring zone and system demand information from zones to air distribution system controllers and from air distribution systems to heating and cooling plant controllers; automatically detecting and alerting system operator when zones and systems excessively drive the reset logic; allow operator removal of zone(s) from the reset algorithm; AND capable of trending and graphically displaying input and output points.	

EnergyGauge Summit® Fla/Com-2020. Effective Date: Dec 31, 2020 Florida Building Code, Seventh Edition (2020) - Energy Conservation C401.2.1: ASHRAE Energy Cost Budget Option

	0.5.0.0.0	M. 1 1 1		
SYSTEM_SPECIFIC	6.5.3.2.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure. Controls provide: zone damper monitoring or indicator of static pressure need; autodetection, alarm, and operator override of zones excessively triggering	
SYSTEM_SPECIFIC	6.5.3.3	Mechanical	reset logic. Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset	
SYSTEM_SPECIFIC	6.5.3.5	Mechanical	controls. Multiple zone HVAC systems have supply air temperature reset controls.	
SYSTEM_SPECIFIC	6.5.4.1	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.	
HVAC	6.5.4.2	Mechanical	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).	
SYSTEM_SPECIFIC	6.5.4.3, 6.5.4.3.1, 6.5.4.3.2	Mechanical	Fluid flow shutdown in pumping systems to multiple chillers or boilers when systems are shut down.	
SYSTEM_SPECIFIC	6.5.4.4	Mechanical	Temperature reset by representative building loads in pumping systems >10 hp for chiller and boiler systems >300,000 Btu/h.	
SYSTEM_SPECIFIC	6.5.4.5.1	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	
SYSTEM_SPECIFIC	6.5.4.5.2	Mechanical	Hydronic heat pumps and water-cooled unitary air conditioners with pump systems >5 hp have controls or devices to reduce pump motor demand.	
SYSTEM_SPECIFIC	6.5.5.2.1	Mechanical	Fan systems with motors or array of motors (inlcuding the motor service factor) with connected power totaling >=5 hp associated with heat rejection equipment to have controls and/or devises that result in fanmotor demand of <= 30% of design wattage at 50% of design airflow and automatically modulates fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	
SYSTEM_SPECIFIC	6.5.5.2.2	Mechanical	Multicell heat rejection equipment with variable-speed fan drives installed that operate the maximum number of fans allowed that comply with manufacturers specs and control all fans to the same fan speed required for the instantaneous cooling duty.	
SYSTEM_SPECIFIC	6.5.7.1	Mechanical	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the	
HVAC	6.5.7.2.1	Mechanical	available transffer air (see section details). Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.	
SYSTEM_SPECIFIC	6.5.7.2.2	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements shown in Table 6.5.7.1.3.	
SYSTEM_SPECIFIC	6.5.7.2.3	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation	
HVAC	6.5.7.2	Mechanical	system, or energy recovery requirements. Fume hoods exhaust systems >=5,000 cfm have VAV hood exhaust and supply systems, direct	
HVAC	6.5.8.1	Mechanical	make-up air or heat recovery. Unenclosed spaces that are heated use only radiant heat.	

SYSTEM_SPECIFIC	7.5.1	Mechanical	Combined space and water heating system not allowed unless standby loss less than calculated maximum. AHJ has approved or combined	
Other Equipment	10.4.1	Mechanical	connected load <150 kBtu/h. Electric motors meet requirements where applicable.	
HVAC	6.4.3.3.2	Mechanical	Setback controls allow automatic restart and temporary operation as required for maintenance.	
SYSTEM_SPECIFIC	6.4.3.3.3	Mechanical	Systems with setback controls and DDC include optimum start controls. Optimum start algorithm	
SYSTEM_SPECIFIC	6.4.3.3.4	Mechanical	considers mass radiant slab floor temperature. Zone isolation devices and controls.	
Wattage	9.4.2	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or orgunate a planued watte	
Controls	9.4.1.4d	Exterior Lighting	equal to allowed watts. Outdoor parking area luminaires >= 78W and <= 24 ft height controlled to reduce wattage by 50% when area unoccupied over 15 minutes.	
Controls	9.4.1.2a	Interior Lighting	Controlled power limited to <= 1500W. Parking garage lighting is equipped with automatic shutoff controls per Section 9.4.1.1(i).	
Controls	9.4.1.2b	Interior Lighting	Parking garage luminarie power is automatically reduced by >= 30% when zone < 3600 ft2 has no	
Controls	9.4.1.2c	Interior Lighting	occupancy after 20 minutes. Parking garage luminaries in or around covered entrances/exits between building and garage automatically reduced by >= 50% from sunset to	
Controls	9.4.1.2d	Interior Lighting	sunrise. Parking garage: Power to luminaires <= 20 ft of any perimeter wall that has a net opening-to-wall ratio >=40% and no exterior obstructions within 20 ft, is automatically reduced	
Other Equipment	6.8.1-14	Mechanical	in response to daylight >= 50%. Vapor compression based indoor pool dehumidifiers (single package (indoor air/water cooled or w/out air-cooled condenser) or split system indoor air-cooled ) have a minimum 3.5	
Controls	6.4.3.3.5	Mechanical	MRE efficiency rating. Hotels/motel w/ > 50 guest rooms have automatic controls for the HVAC equipment serving each room configured per Section 6.4.3.3.5 subsections 1-3.	
		3. To be ch	ecked by Inspector	
Insulation	5.8.1.7	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and	
HVAC	6.4.3.7	Mechanical	equipment maintenance activities. Freeze protection and snow/ice melting system sensors for future connection to controls.	
Air Leakage	5.4.3.1	Envelope	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate	
Air Leakage	5.4.3.2	Envelope	zones 1-6. Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air	
Fenestration	5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5	Envelope	leakage requirements. Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code	
Fenestration	5.8.2.2	Envelope	defaults are used. Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.	
SYSTEM_SPECIFIC	7.4.4.1	Mechanical	Temperature controls installed on service water heating systems (<=120°F to maximum temperature for intended use).	

SYSTEM_SPECIFIC	7.4.4.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	
SYSTEM_SPECIFIC	7.4.6	Mechanical	Heat traps installed on non-circulating storage water tanks.	
HVAC	6.4.1.4, 6.4.1.5	Mechanical	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	
SYSTEM_SPECIFIC	6.4.1.5.2	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only.	
HVAC	6.4.3.4.1	Mechanical	Stair and elevator shaft vents have motorized dampers that automatically close.	
HVAC	6.4.3.4.2, 6.4.3.4.3	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.	
HVAC	6.4.3.4.5	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	
HVAC	6.5.3.2.1	Mechanical	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= 1⁄4 designed to vary supply fan airflow as a function of load and	
HVAC	6.4.4.1.1	Mechanical	comply with operational requirements. Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is	
HVAC	6.4.4.1.2	Mechanical	vapor retardant. HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur	
HVAC	6.4.4.1.3	Mechanical	during Foundation Inspection. HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	
HVAC	6.4.4.2.1	Mechanical	Ducts and plenums having pressure class ratings are Seal Class A construction.	
SYSTEM_SPECIFIC	6.4.4.2.2	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	
SYSTEM_SPECIFIC	6.5.2.1	Mechanical	Zone controls can limit reheating, recooling, simultaneous heating and cooling and sequence	
SYSTEM_SPECIFIC	6.4.3.11.1	Mechanical	heating and cooling to each zone. Electric motor driven chilled-water plants have measurement devices installed and measure the electricity use and efficiency	
SYSTEM_SPECIFIC	6.4.3.11.2	Mechanical	Electricity use and efficiency are trended every 15 minutes and graphically displayed, including hourly, daily, monthly, and annual data. Data are preserved for 36 months or more.	
SYSTEM_SPECIFIC	6.5.2.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=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 <=30 °F.	
HVAC	6.5.2.4.1	Mechanical	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.	
HVAC	6.5.2.4.2	Mechanical	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated $\geq$ = R-0.5.	
HVAC	6.5.2.5	Mechanical	Preheat coils controlled to stop heat output whenever mechanical cooling, including	
SYSTEM_SPECIFIC	6.5.3.2.2	Mechanical	economizer operation, is active. VAV fans have static pressure sensors positioned so setpoint <=1.2 in. w.c. design pressure.	
SYSTEM_SPECIFIC	6.5.4.6	Mechanical	Chilled-water and condenser water piping sized according to design flow rate and total annual hours of operation (Table 6.5.4.6).	

EVETEM ODEOLEIO	6560	Macharizzi	Condensor heat receivery	
SYSTEM_SPECIFIC	6.5.6.2	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	
HVAC	6.5.7.2.4	Mechanical	water. Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.	
SYSTEM_SPECIFIC	6.5.9	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 15% >240 kBtu/h – 10%	
HVAC	6.4.3.9	Mechanical	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	
Controls	6.5.10	Mechanical	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.	
Controls	9.4.1.1 except(g)	Interior Lighting	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	
Controls	9.4.1.1 except(g)	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	
Controls	9.4.1.1f	Interior Lighting	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	
Controls	9.4.1.4	Exterior Lighting	Automatic lighting controls for exterior lighting installed.	
Controls	9.4.1.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	
Wattage	9.6.2	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	
Wattage	9.6.4	Interior Lighting	Where space LPD requirements are adjusted based on room cavity ratios, dimensions are consistent with approved plans.	
Insulation	4.2.4	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	
Insulation	5.8.1.2, 5.8.1.3	Envelope	Framing Inspection. Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation	
Insulation	5.8.1.1	Envelope	is installed only where the ceiling slope is <= 3:12. Building envelope insulation is labeled with R-value or insulation certificate has been provided	
Insulation	5.8.1.9	Envelope	listing R-value and other relevant data. Building envelope insulation extends over the full area of the component at the proposed rated R or	
Insulation	5.8.1.4	Envelope	U value. Eaves are baffled to deflect air to above the insulation.	
Insulation	5.8.1.5	Envelope	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.	
Insulation	5.8.1.6	Envelope	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.	
Insulation	5.8.1.7.1	Envelope	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.	
Insulation	5.8.1.7.2	Envelope	Foundation vents do not interfere with insulation.	

Insulation	5.8.1.8	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement	
SYSTEM_SPECIFIC	6.4.3.1.1	Mechanical	compliant if insulation is installed accordingly. Heating and cooling to each zone is controlled by a thermostat control.	
HVAC	6.4.3.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	
HVAC	6.4.3.2	Mechanical	Temperature controls have setpoint overlap restrictions.	
HVAC	6.4.3.3.1	Mechanical	HVAC systems equipped with at least one automatic shutdown control.	
SYSTEM_SPECIFIC	6.4.3.5	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	
SYSTEM_SPECIFIC	6.4.3.12	Mechanical	Air economizer has a fault detection and diagnostics (FDD) system (see details for	
HVAC	6.4.3.6	Mechanical	configuration and operational requirements). When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in	
SYSTEM_SPECIFIC	7.4.4.3	Mechanical	the coldest zone dehumidified. Public lavatory faucet water temperature <=110°F.	
SYSTEM_SPECIFIC	7.4.4.4	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain	
SYSTEM_SPECIFIC	7.4.5.1	Mechanical	temperature of a storage tank. Pool heaters are equipped with on/off switch and no continuously burning pilot light.	
SYSTEM_SPECIFIC	7.4.5.2	Mechanical	Pool covers are provided for heated pools and pools heated to >90°F have a cover >=R-12.	
SYSTEM_SPECIFIC	7.4.5.3	Mechanical	Time switches are installed on all pool heaters and pumps.	
Wattage	9.2.2.3	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.	
SYSTEM_SPECIFIC	7.4.3	Mechanical	All piping in recirculating system insulated	
SYSTEM_SPECIFIC	7.4.3	Mechanical	First 8 ft of outlet piping in nonrecirculating storage system, or branch piping connected to recirculated, heat traced, or impredance heated piping is insulated.	
SYSTEM_SPECIFIC	7.4.3	Mechanical	All heat traced or externally heated piping is insulated insulated biping insulated	
Wattage	9.4.4	Interior Lighting	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	

#### 4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy

		Certific	ate of Occupancy	
Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	
Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or	
Post Construction	6.7.2.1	Mechanical	specifications for projects >=50,000 ft2. Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	
Post Construction	6.7.2.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	
Post Construction	6.7.2.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	

Florida Building Code, Seventh Edition (2020) - Energy Conservation C401.2.1: ASHRAE Energy Cost Budget Option

HVAC	6.7.2.4	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	
Post Construction	8.7.1	Interior Lighting	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	
Post Construction	8.7.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	

EnergyGauge Summit® v7.00

## **INPUT DATA REPORT**

|--|

Project Name:	23136	Orientation:	350 Deg Clockwise. Walls & Windows will	
Project Title:	Golf House	Building Type:	be rotated accordingly Retail	
Address:	2645 SE Bridge Rd	<b>Building Classification:</b>	New Finished building	
State:	FL	No.of Stories:	1	
Zip:	33455	GrossArea:	6537 SF	
Owner:	Atlantic Fields			

			Zones				
No	Acronym	Description	Туре	Area [sf]	Multiplier	Total Area [sf]	
1	AHU-1	Zone 1	CONDITIONED	1305.0	1	1305.0	
2	AHU-2	Zone 2	CONDITIONED	1641.0	1	1641.0	
3	AHU-3	Zone 3	CONDITIONED	1020.0	1	1020.0	
4	AHU-4	Zone 4	CONDITIONED	2217.0	1	2217.0	
5	AC-5	Zone 5	CONDITIONED	41.0	1	41.0	
6	AC-6	Zone 6	CONDITIONED	64.0	1	64.0	

7 A0	C-7	Zone 7	CONDITIONED			197.0	)	1	197.0	
8 U1	nCon	Zone 8	UNCONDITIONED			52.0		1	52.0	
				Spaces						
No	Acronym	Description	Туре	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	
<b>n Zone:</b> 1	<b>AHU-1</b> 100	Golf Shop	Sales Area	1.00	1305.00	12.00	1	1305.0	15660.0	
<b>n Zone:</b> 1	<b>AHU-2</b> 101	Hallway	Corridor	1.00	311.00	12.00	1	311.0	3732.0	
2	102	Men's Restroom	Toilet and Washroom	1.00	173.00	12.00	1	173.0	2076.0	
3	103	Women's Restroom	Toilet and Washroom	1.00	176.00	12.00	1	176.0	2112.0	
4	104	Janitor	Toilet and Washroom	1.00	33.00	12.00	1	33.0	396.0	
5	115-W	Indoor Dining West	Food Service - Leisure Dining	1.00	948.00	18.00	1	948.0	17064.0	
	<b>AHU-3</b> 115-E 105	Indoor Dining East Server Station	Food Service - Leisure Dining Corridor	1.00 1.00	949.00 71.00	18.00 12.00	1	949.0 71.0	17082.0 852.0	
n Zone:	<b>AHU-4</b> 106	Kitchen	Food Service - Kitchen	1.00	1512.00	12.00	1	1512.0	18144.0	
	108	Staff Restrooms	Toilet and Washroom	1.00	64.00	12.00	1	64.0	768.0	
3	110	Corridor	Corridor	1.00	160.00	12.00	1	160.0	1920.0	
4	112	Mech Room	Electrical Mechanical Equipment Room - General	1.00	481.00	12.00	1	481.0	5772.0	
	AC-5 107	AV Room	Electrical Mechanical Equipment Room - General	1.00	41.00	12.00	1	41.0	492.0	
n Zone: 1	AC-6 109 AC-7	Elec	Electrical Mechanical Equipment Room - General	1.00	64.00	12.00	1	64.0	768.0	

1 111		Frash	Storage & Warehouse - Inactive Storage	1.00	197.00	12.00	1 197.0	2364.0	
In Zone: Un 1 Pr0Zo8S	Con Sp1 2	Zo0Sp1	Storage & Warehouse - Inactive Storage	1.00	52.00	1.00	1 52.0	52.0	
				Lighting					
	No	Туре	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: AH In Space:	I <b>U-1</b> 100 1	LED	General Lighting	20	25	500	Manual On/Off	1	
n Zone: AH In Space:	IU-2 101 1	LED	General Lighting	4	25	100	Manual On/Off	1	
In Space:	<b>102</b> 1	LED	General Lighting	4	17	68	Manual On/Off	1	
	2	LED	General Lighting	6	10	60	Manual On/Off	1	
In Space:	<b>103</b> 1	LED	General Lighting	4	17	68	Manual On/Off	1	
	2	LED	General Lighting	6	10	60	Manual On/Off	1	
In Space:	<b>104</b> 1	LED	General Lighting	1	40	40	Manual On/Off	1	
In Space:	<b>115-W</b> 1	LED	General Lighting	7	25	175	Manual On/Off	1	
	2	LED	General Lighting	1	100	100	Manual On/Off	1	
	3	LED	General Lighting	2	10	20	Manual On/Off	1	
	4	LED	General Lighting	1	55	55	Manual On/Off	1	
	IU-3								
In Space:	<b>115-Е</b> 1	LED	General Lighting	7	25	175	Manual On/Off	1	

		2	LED	C	General Lighting		2		10	20	Manual O	n/Off		1	
Ir	n Space:	<b>105</b> 1	LED	C	General Lighting		1		17	17	Manual O	n/Off		1	
n Zone	· •	IU-4	LLD		reneral Eighting		1		17	17	Willing O			1 L	
	n Space:	10-4													
		1	LED	C	General Lighting		23		49	1127	Manual O	n/Off		1	
Ir	n Space:	<b>108</b> 1	LED	C	General Lighting		1		12	12	Manual O	n/Off		1 1	
T	0		LED	C	reneral Lighting		1		12	12	Manual O	n/OII		1	
Ir	n Space:	<b>110</b> 1	LED	C	General Lighting		2		49	98	Manual O	n/Off		1	
Ir	n Space:	112												•	
	•	1	LED	C	General Lighting		3		80	240	Manual O	n/Off		1 [	
n Zone	-	-													
Ir	n Space:	107 1	LED	C	General Lighting		1		49	49	Manual O	n/Off		1	
n Zone	: AC	-	LLD		reneral Eighting		1		<u>ر</u> ۲	77	Walload O	li Oli		1 I	
	n Space:	0 109													
		1	LED	C	General Lighting		1		40	40	Manual O	n/Off		1	
n Zone															
Ir	n Space:	<b>111</b> 1	LED	C	General Lighting		2		80	160	Manual O	n/Off		1	
n Zone	: Un	Con												•	
	n Space:	Pr0Zo							_	_				. 1	_
		1	LED		General Lighting		1		1	1	Manual O	n/Off		1	
				Walls (W	alls will be	rotated	clockw	ise by b	uilding rota	ation va	alue)				
No	Descript	ion		Туре		H (Effec)		Area	Orientation		luctance	Heat	Dens.	<b>R-Value</b>	
					[ft]	[ft]	plier	[sf]		[Btu/ł	hr. sf. F]	Capacity [Btu/sf.F]	[lb/cf]	[h.sf.F/Btu	uj
In Zo	ne:	AH	U-1												
	North Wa	.11		R-13 Wall	42.00	12.00	1	504.0	North		.0652			15.3	
	East Wall			R-13 Wall	5.00	12.00	1	60.0	East		.0652			15.3	
3	South Wa			R-13 Wall R-13 Wall	6.75	12.00 12.00	1	81.0	South		.0652			15.3 15.3	
	West Wall				35.00			420.0	West		.0652				

In 7	one: AHU-2									
1	North Wall 1	R-13 Wall	7.00	12.00	1	84.0	North	0.0652	15.3	
2	West Wall 1	R-13 Wall	5.00	12.00	1	60.0	West	0.0652	15.3	
3	North Wall 2	R-13 Wall	16.50	12.00	1	198.0	North	0.0652	15.3	
4	North Wall 3	R-13 Wall	42.00	6.00	1	252.0	North	0.0652	15.3	
5	South Wall 1	R-13 Wall	42.00	18.00	1	756.0	South	0.0652	15.3	
6	West Wall 2	R-13 Wall	24.00	18.00	1	432.0	West	0.0652	15.3	
In Z	one: AHU-3									
1	North Wall 1	R-13 Wall	42.00	6.00	1	252.0	North	0.0652	15.3	
2	East Wall 1	R-13 Wall	24.00	18.00	1	432.0	East	0.0652	15.3	
3	South Wall 1	R-13 Wall	42.00	18.00	1	756.0	South	0.0652	15.3	
In Z	one: AHU-4									
1	North Wall 1	R-13 Wall	92.75	12.00	1	1113.0	North	0.0652	15.3	
2	East Wall 1	R-13 Wall	6.75	12.00	1	81.0	East	0.0652	15.3	
3	East Wall 2	R-13 Wall	13.75	12.00	1	165.0	East	0.0652	15.3	
4	South Wall 1	R-13 Wall	36.50	12.00	1	438.0	South	0.0652	15.3	
5	South Wall 2	R-13 Wall	21.67	12.00	1	260.0	South	0.0652	15.3	
In Z	one: AC-5									
1	South Wall 1	R-13 Wall	9.75	12.00	1	117.0	South	0.0652	15.3	
In Z	one: AC-7									
1	East Wall 1	R-13 Wall	14.50	12.00	1	174.0	East	0.0652	15.3	

		Wi	ndows (Windo	ows will b	be rotated o	clockwi	se by buil	ding rota	ition value	e)		
	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-1											
	1	Pr0Zo1Wa1Wi1	North	No	0.4500	0.52	0.57	30.25	10.67	1	322.8	
In Wall:	S-1											
	1	Pr0Zo1Wa3Wi1	South	No	0.4500	0.52	0.57	3.00	10.67	1	32.0	
In Wall:	W-1											
	1	Pr0Zo1Wa4Wi1	West	No	0.4500	0.52	0.57	9.33	10.67	1	99.6	
	2	Pr0Zo1Wa4Wi2	West	No	0.4500	0.52	0.57	7.50	10.67	1	80.0	

In Zon	e: A	HU-2												
In	Wall:	N-3												
		1	Pr0Zo2Wa4Wi1	North	No	0.4500	0.52	0.57	41.0	00 2.25	1		92.3	
In	Wall:	S-1												_
		1	Pr0Zo2Wa5Wi1	South	No	0.4500	0.52	0.57	41.0	00 16.00	1	(	556.0	Г
In	Wall:	W-2												
		1	Pr0Zo2Wa6Wi1	West	No	0.4500	0.52	0.57	21.0	00 16.00	1		336.0	Γ
In Zon	e: A	HU-3												
	Wall:	E-1												
		1	Pr0Zo3Wa2Wi1	East	No	0.4500	0.52	0.57	5.5	0 16.00	2		76.0	Γ
In	Wall:	N-1												
		1	Pr0Zo3Wa1Wi1	North	No	0.4500	0.52	0.57	41.0	00 2.25	1		92.3	Г
In	Wall:	S-1												
		1	Pr0Zo3Wa3Wi1	South	No	0.4500	0.52	0.57	41.0	00 16.00	1	(	556.0	Γ
						Doc	ors							
	1	No D	escription	Туре	Shaded?	Width	H (Effec)	Multi	Area	Cond.	Dens	Heat Cap.	<b>R-Value</b>	
				-,		[ft]	[ft]	plier	[sf]	[Btu/hr. sf. F]		-	[h.sf.F/Btu	]
n Zone:														
	In Wal		W-1											-
		1 ]	Pr0Zo1Wa4Dr1	Solid core flush (2.25)	No	4.50	9.00	1	40.5	0.3504	0.00	0.00	2.85	L
n Zone:	AH	U-2												
	In Wal		N-1											
		1 ]	Pr0Zo2Wa1Dr1	Solid core flush (2.25)	No	4.25	8.00	1	34.0	0.3504	0.00	0.00	2.85	[
	In Wal	l: \$	S-1											
			Pr0Zo2Wa5Dr1	Solid core flush (2.25)	No	4.50	9.00	1	40.5	0.3504	0.00	0.00	2.85	Ľ
	In Wal	<u>ب</u> ۱۰	W-2	(2.23)										
	111 11 41		Pr0Zo2Wa6Dr1	Solid core flush	No	4.50	9.00	2	40.5	0.3504	0.00	0.00	2.85	[
				(2.25)										
n Zone:														
	In Wal		E-1		<b>N</b> <sup>1</sup>	4.50	0.00	1	40.5	0.2504	0.00	0.00	0.05	
		1 ]	Pr0Zo3Wa2Dr1	Solid core flush	No	4.50	9.00	1	40.5	0.3504	0.00	0.00	2.85	
	I., W/-1	1. 4	2.1	(2.25)										
	In Wal	1, )	8-1											

		1 Pr0Zo3Wa3Dr1	Solid core flush (2.25)	No	4.50	9.00	1	40.5	0.3504	0.00	0.00	2.85	
n Zone:	A	HU-4											
	In Wa												_
		1 Pr0Zo4Wa2Dr1	Solid core flush (2.25)	No	4.50	8.00	1	36.0	0.3504	0.00	0.00	2.85	Ľ
	In Wa												_
		1 Pr0Zo4Wa3Dr1	Solid core flush (2.25)	No	4.50	8.00	1	36.0	0.3504	0.00	0.00	2.85	Ľ
n Zone:		C <b>-7</b>											
	In Wa												_
		1 Pr0Zo7Wa1Dr1	Solid core flush (2.25)	No	6.00	8.00	1	48.0	0.3504	0.00	0.00	2.85	
					Roo	fs							
	No	Description	Туре	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]	
n Zone:		HU-1											
In Zone:	1	Golf Shop Roof	R-25 Roof	1305.00	1.00	1	1305.0	0.00	0.0398			25.2	
In Zone:													
		HU-2			1.00								
	1	Hallway Roof	R-25 Roof	311.00	1.00	1	311.0	0.00	0.0398			25.2	
		Hallway Roof Men's Restroom	R-25 Roof R-25 Roof	311.00 173.00	1.00 1.00	1 1	311.0 173.0	$0.00 \\ 0.00$	0.0398 0.0398			25.2 25.2	
	1 2	Hallway Roof Men's Restroom Roof	R-25 Roof	173.00	1.00	1	173.0	0.00	0.0398			25.2	
	1	Hallway Roof Men's Restroom Roof Women's Restroom											
	1 2	Hallway Roof Men's Restroom Roof	R-25 Roof	173.00 176.00	1.00	1	173.0	0.00 0.00	0.0398 0.0398			25.2	
	1 2 3	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof	R-25 Roof R-25 Roof R-25 Roof	173.00 176.00 33.00	1.00 1.00 1.00	1 1	173.0 176.0 33.0	0.00	0.0398			25.2 25.2 25.2	
	1 2 3 4	Hallway Roof Men's Restroom Roof Women's Restroom Roof	R-25 Roof R-25 Roof	173.00 176.00	1.00 1.00	1 1 1	173.0 176.0	0.00 0.00 0.00	0.0398 0.0398 0.0398			25.2 25.2	
In Zone:	1 2 3 4 5	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof Indoor Dining West Roof <b>HU-3</b>	R-25 Roof R-25 Roof R-25 Roof R-25 Roof	173.00 176.00 33.00	1.00 1.00 1.00 1.00	1 1 1	173.0 176.0 33.0 948.0	0.00 0.00 0.00	0.0398 0.0398 0.0398			25.2 25.2 25.2 25.2 25.2	
In Zone:	1 2 3 4 5	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof Indoor Dining West Roof	R-25 Roof R-25 Roof R-25 Roof	173.00 176.00 33.00	1.00 1.00 1.00	1 1 1	173.0 176.0 33.0	0.00 0.00 0.00	0.0398 0.0398 0.0398			25.2 25.2 25.2	
In Zone:	1 2 3 4 5 <b>A</b>	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof Indoor Dining West Roof <b>HU-3</b> Indoor Dining East	R-25 Roof R-25 Roof R-25 Roof R-25 Roof	173.00 176.00 33.00 948.00	1.00 1.00 1.00 1.00	1 1 1 1	173.0 176.0 33.0 948.0	0.00 0.00 0.00 0.00	0.0398 0.0398 0.0398 0.0398			25.2 25.2 25.2 25.2 25.2	
In Zone: In Zone:	1 2 3 4 5 <b>A</b> 1 2	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof Indoor Dining West Roof HU-3 Indoor Dining East Roof Server Station Roof HU-4	R-25 Roof R-25 Roof R-25 Roof R-25 Roof R-25 Roof	<ul> <li>173.00</li> <li>176.00</li> <li>33.00</li> <li>948.00</li> <li>949.00</li> <li>71.00</li> </ul>	1.00 1.00 1.00 1.00 1.00	1 1 1 1	<ul> <li>173.0</li> <li>176.0</li> <li>33.0</li> <li>948.0</li> <li>949.0</li> <li>71.0</li> </ul>	0.00 0.00 0.00 0.00 0.00	0.0398 0.0398 0.0398 0.0398 0.0398 0.0398			25.2 25.2 25.2 25.2 25.2 25.2 25.2	
	1 2 3 4 5 <b>A</b> 1 2	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof Indoor Dining West Roof HU-3 Indoor Dining East Roof Server Station Roof	R-25 Roof R-25 Roof R-25 Roof R-25 Roof	173.00 176.00 33.00 948.00 949.00	1.00 1.00 1.00 1.00	1 1 1 1	173.0 176.0 33.0 948.0 949.0	0.00 0.00 0.00 0.00	0.0398 0.0398 0.0398 0.0398 0.0398			25.2 25.2 25.2 25.2 25.2	
	1 2 3 4 5 A 1 2 A	Hallway Roof Men's Restroom Roof Women's Restroom Roof Janitor Roof Indoor Dining West Roof HU-3 Indoor Dining East Roof Server Station Roof HU-4	R-25 Roof R-25 Roof R-25 Roof R-25 Roof R-25 Roof	<ul> <li>173.00</li> <li>176.00</li> <li>33.00</li> <li>948.00</li> <li>949.00</li> <li>71.00</li> </ul>	1.00 1.00 1.00 1.00 1.00	1 1 1 1 1	<ul> <li>173.0</li> <li>176.0</li> <li>33.0</li> <li>948.0</li> <li>949.0</li> <li>71.0</li> </ul>	0.00 0.00 0.00 0.00 0.00	0.0398 0.0398 0.0398 0.0398 0.0398 0.0398			25.2 25.2 25.2 25.2 25.2 25.2 25.2	

													_
	4	Mech Room	R-25 Roof	481.00	1.00	1	481.0	0.00	0.0398			25.2	
n Zone:		-C-5				_							
	1	AV Room Roof	R-25 Roof	41.00	1.00	1	41.0	0.00	0.0398			25.2	
n Zone:	A 1	.C-6 Elec Roof	R-25 Roof	64.00	1.00	1	64.0	0.00	0.0398			25.2	
n Zone:	-	C-7	K-23 K001	04.00	1.00	1	04.0	0.00	0.0398			23.2	
	1 1	Trash Roof	R-25 Roof	197.00	1.00	1	197.0	0.00	0.0398			25.2	
				5	Skylights	5							
		No Descripti	on Type	U [Btu/hr s	SHG4 sf F]	C Vis.	.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zone: In I	: Roof:	:											
					Floors	;							
	No	Description	Туре	Width [ft]	Floors H (Effec) [ft]			Cond. [Btu/hr. sf.		Cap. Dens. C.F] [lb/cf]		-Value f.F/Btu]	
In Zone:		Description HU-1	Туре		H (Effec)	Multi				-			
	<b>A</b> 1	.HU-1 Golf Shop Floor	<b>Type</b> R-13 Floor		H (Effec)	Multi		[Btu/hr. sf.	F] [Btu/sf	-	[h.s		
In Zone:	A 1 A	HU-1 Golf Shop Floor HU-2	R-13 Floor	<b>[ft]</b> 1305.00	H (Effec) [ft] 1.00	Multi plier	[ <b>sf</b> ]   1305.0	[ <b>Btu/hr. sf.</b> ) 0.0744	<b>F] [Btu/sf</b> 4	-	<b>[h.s</b>	<b>f.F/Btu]</b> 3.44	
In Zone:	<b>A</b> 1 <b>A</b> 1	HU-1 Golf Shop Floor HU-2 Hallway Floor	R-13 Floor R-13 Floor	[ft] 1305.00 311.00	H (Effec) [ft] 1.00 1.00	Multi plier 1 1	[sf] 1305.0 311.0	( <b>Btu/hr. sf.</b> ) 0.074- 0.074-	<b>F] [Btu/sf</b> 4	-	<b>[h.s</b> 1 1	<b>f.F/Btu]</b> 3.44 3.44	
In Zone:	A 1 A	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom	R-13 Floor	<b>[ft]</b> 1305.00	H (Effec) [ft] 1.00	Multi plier	[ <b>sf</b> ]   1305.0	( <b>Btu/hr. sf.</b> ) 0.0744 0.0744	<b>F] [Btu/sf</b> 4	-	<b>[h.s</b> 1 1	<b>f.F/Btu]</b> 3.44	
In Zone:	<b>A</b> 1 <b>A</b> 1	HU-1 Golf Shop Floor HU-2 Hallway Floor	R-13 Floor R-13 Floor	[ft] 1305.00 311.00	H (Effec) [ft] 1.00 1.00	Multi plier 1 1	[sf] 1305.0 311.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074-	F] [Btu/sf 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44	
n Zone:	<b>A</b> 1 <b>A</b> 1 2	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Women's Restroom Floor	R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00	H (Effec) [ft] 1.00 1.00 1.00	Multi plier 1 1 1 1	[sf]   1305.0 311.0 173.0 176.0	<b>Btu/hr. sf.</b> ) 0.074- 0.074- 0.074-	F] [Btu/sf 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44	
In Zone:	A 1 1 2 3 4	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Women's Restroom Floor Janitor Floor	R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00 33.00	H (Effec) [ft] 1.00 1.00 1.00 1.00 1.00	Multi plier	[sf]   1305.0 311.0 173.0 176.0 33.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074- 0.074- 0.074-	<b>F] [Btu/sf</b> 4 4 4 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44 3.44 3.44	
In Zone:	<b>A</b> 1 <b>A</b> 1 2 3	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Women's Restroom Floor Janitor Floor Indoor Dining West	R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00	H (Effec) [ft] 1.00 1.00 1.00 1.00	Multi plier 1 1 1 1	[sf]   1305.0 311.0 173.0 176.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074- 0.074- 0.074-	<b>F] [Btu/sf</b> 4 4 4 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44 3.44	
In Zone:	<b>A</b> 1 <b>A</b> 1 2 3 4 5	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Women's Restroom Floor Janitor Floor Indoor Dining West Floor	R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00 33.00	H (Effec) [ft] 1.00 1.00 1.00 1.00 1.00	Multi plier	[sf]   1305.0 311.0 173.0 176.0 33.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074- 0.074- 0.074-	<b>F] [Btu/sf</b> 4 4 4 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44 3.44 3.44	
In Zone: In Zone:	A 1 2 3 4 5 A	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Vomen's Restroom Floor Janitor Floor Indoor Dining West Floor HU-3	R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00 33.00 948.00	H (Effec) [ft] 1.00 1.00 1.00 1.00 1.00	<b>Multi</b> plier 1 1 1 1 1 1	[sf]   1305.0 311.0 173.0 176.0 33.0 948.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074- 0.074- 0.074- 0.074- 0.074-	F] [Btu/sf 4 4 4 4 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44 3.44 3.44	
In Zone: In Zone:	<b>A</b> 1 <b>A</b> 1 2 3 4 5	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Women's Restroom Floor Janitor Floor Indoor Dining West Floor	R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00 33.00	H (Effec) [ft] 1.00 1.00 1.00 1.00 1.00 1.00	Multi plier	[sf]   1305.0 311.0 173.0 176.0 33.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074- 0.074- 0.074- 0.074- 0.074-	F] [Btu/sf 4 4 4 4 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44 3.44 3.44 3.44	
In Zone: In Zone:	A 1 2 3 4 5 A	HU-1 Golf Shop Floor HU-2 Hallway Floor Men's Restroom Floor Vomen's Restroom Floor Janitor Floor Indoor Dining West Floor HU-3 Indoor Dining East	R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor R-13 Floor	[ft] 1305.00 311.00 173.00 176.00 33.00 948.00	H (Effec) [ft] 1.00 1.00 1.00 1.00 1.00 1.00	<b>Multi</b> plier 1 1 1 1 1 1	[sf]   1305.0 311.0 173.0 176.0 33.0 948.0	<b>Btu/hr. sf.</b> 0.074- 0.074- 0.074- 0.074- 0.074- 0.074- 0.074-	F] [Btu/sf 4 4 4 4 4 4 4 4	-	[h.s	<b>f.F/Btu]</b> 3.44 3.44 3.44 3.44 3.44 3.44	

		5 44 51								
	Litchen Floor	R-13 Floor	1512.00	1.00	1	1512.0	0.0744		13.44	
	taff Restroom loor	R-13 Floor	64.00	1.00	1	64.0	0.0744		13.44	
	Corridor Floor	R-13 Floor	160.00	1.00	1	160.0	0.0744		13.44	
	Aech Room	R-13 Floor	481.00	1.00	1	481.0	0.0744		13.44	
In Zone: AC-		K 19 1 1001	101.00	1.00	1	10110	0.0711		15.11	
	V Room Floor	R-13 Floor	41.00	1.00	1	41.0	0.0744		13.44	
In Zone: AC-										
	llec Floor	R-13 Floor	64.00	1.00	1	64.0	0.0744		13.44	
In Zone: AC-		D 10 E1	107.00	1.00	1	107.0	0.0744		12.44	_
1 T	rash Floor	R-13 Floor	197.00	1.00	1	197.0	0.0744		13.44	
				<b>C</b> 1						
				Syster	ns					
AHU-1	Syste	em 1		Const	ant Vol	ume Packa	ged System		No. Of Units 1	
Component	Category			Capacit	y	Efficier	ıcy	IPLV		
1	Cooling System			81100.00	)	13.5	0	25.30		Г
2	Heating System			80000.00	0	4.05	5			
3	Air Handling Sys	stem -Supply		1950.00	)	0.80	)			
AHU-2	Syste	em 2		Const	ant Vol	ume Packa	ged System		No. Of Units 1	
				Capacit	v	Efficier	ICV	IPLV		
Component	Category			Capacity	<b>y</b>	Entre	icy.			
<b>Component</b>				152000.0		11.7		24.00		Г
1	Cooling System			152000.0	0	11.7	0	24.00		
-		stem -Supply			0		0	24.00		
1 2	Cooling System Heating System			152000.0 188000.0 3250.00	0	11.7 3.61 0.46	0	24.00	No. Of Units 1	
1 2 3	Cooling System Heating System Air Handling Sys			152000.0 188000.0 3250.00	0 0 ant Vol	11.7 3.61 0.46	ged System	24.00 IPLV	No. Of Units 1	
1 2 3 AHU-3	Cooling System Heating System Air Handling System Syste Category			152000.0 188000.0 3250.00 Consta	0 0 ant Vol	11.7/ 3.61 0.46 ume Packa	ged System		No. Of Units 1	
1 2 3 AHU-3 Component	Cooling System Heating System Air Handling Sys Syste			152000.0 188000.0 3250.00 Const Capacit	0 0 ant Vol y 0	11.7/ 3.61 0.46 ume Packa Efficier	0 ged System ncy 0	IPLV	No. Of Units 1	

AHU-4	System 4		Constant Vo	olume Packaged Syste	em	No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		131100.00	13.30	25.40		Г
2	Heating System		135000.00	1.00			
3	Air Handling System -Supply		3000.00	0.50			
AC-5	System 5		Constant Vo System < 65	olume Air Cooled Spl 5000 Btu/hr	it	No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		12000.00	24.60	8.00		Г
2	Air Handling System -Supply		350.00	0.15			
AC-6	System 6		Constant Vo System < 65	olume Air Cooled Spl 5000 Btu/hr	it	No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		9000.00	23.10	8.00		
2	Air Handling System -Supply		300.00	0.18			
AC-7	System 7		Constant Vo System < 65	olume Air Cooled Spl 5000 Btu/hr	it	No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		9000.00	23.10	8.00		Г
2	Air Handling System -Supply		300.00	0.18			
			Plant				
Equipm	ient	Category	Size	Inst.No	Eff.	IPLV	
							Г

			Water Hea	iters				
W-Heater I	Description	Capacity Cap.U	nit I/P	Rt.	Efficiency	Loss		
								[
			Ext-Ligl	hting				
Descripti	on	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
			Piping	5				
No Туре			Operating Temperature [F]	Insulation Conductivity [ Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
			Fenestrati	ion Used				
Jame	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT			
ASHULTplClrW -Vy-Fg frm	User Defined	3	0.4500	0.5200	0.5700			

				Ma	aterials <b>(</b>	Jsed				
Mat No	Acronym	Description	1	Only R-Value Used	RValue [h.sf.F/Btu		Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PI		No	0.4533	0.0417	0.0920	50.00	0.2000	
151	Matl151	BOARD,1/2 CONC HW 4IN	21N 7, DRD, 140LB,	No	0.4403	0.3333	0.7570	140.00	0.2000	
256	Matl256		DFT, 1-1/2IN	No	1.8939	0.1250	0.0660	32.00	0.3300	
279	Matl279	Solid core f	lush (2.25")	Yes	2.8537					
81	Matl81	ASPHALT- ROLL	ROOFING,	Yes	0.1500					
1001	ApLbMat1001	R-13		Yes	13.0000					
1002	ApLbMat1002	R-25		Yes	25.0000					
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1058	Solid core flush (	2.25)		No	Yes	0.35			2.9	
	Layer	Material No.	Material		TI	hickness [ft]	Framing Factor			
	1	279	Solid core flush (2				0.000			
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	R-13 Wall			No	Yes	0.07			15.3	
	Layer	Material No.	Material		TI	hickness [ft]	Framing Factor			
				1/211	0	.1250	0.000			
	1	256	WOOD, SOFT, 1-	1/21IN	0					
	1 2	256 1001	WOOD, SOFT, 1- R-13	1/211	0		0.000			

No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]		Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1062	R-25 Roof			No	Yes	0.04				25.2	
	Layer	Material No.	Material			Thickness [ft]	Framing Factor	ţ			
	1	81	ASPHALT-ROOFIN	NG, ROLL			0.000				
	2	1002	R-25				0.000				
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]		Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1063	R-13 Floor			No	Yes	0.07				13.4	
	Layer	Material No.	Material			Thickness [ft]	Framing Factor	;			
	1	151	CONC HW, DRD,	40LB, 4IN		0.3333	0.000				
	2	1001	R-13				0.000				