

Florida Building Code, Sixth Edition (2017) - Energy Conservation

EnergyGauge Summit® Fla/Com-2017, Effective Date: Dec 31, 2017

IECC 2015 - Total Building Performance Compliance Option

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.

WARNING: INPUT REPORT NOT GENERATED.

To include input report in final submission, go to the Project Form, Settings Tab and check the box - "Append Input Report to Compliance Output Report"
Then rerun your calculation

Christopher J. Floegel, P.E.
State of Florida
Professional Engineer
License No. 84276

This item has been electronically signed and sealed by the individual named above, using a dated Digital Signature in the space below, per F.A.C. Rule 61G15-23.004. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Christopher Floegel

Digitally signed by Christopher Floegel
DN: CN=Christopher Floegel,
OU=A01410C000001703A7BF20D00015C2B,
O=TLG ENGINEERING SOLUTIONS, C=US
Date: 2020.07.22 07:33:24-04'00'

PROJECT SUMMARY

Short Desc: CCJ

Description: Columbia County Detention Fac

Owner: Columbia County Board of County Commissioners

Address1: 4917 E. US Highway 90

City: Lake City

Address2:

State: Florida

Zip: 32055

Type: Penitentiary

Class: New Finished building

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

Conditioned Area: 30805 SF

Conditioned & UnConditioned Area: 30805 SF

No of Stories: 1

Area entered from Plans 89059 SF

Permit No: 0

Max Tonnage 25.8

If different, write in: _____

Compliance Summary			
Component	Design	Criteria	Result
Gross Energy Cost (in \$)	14,322.0	16,373.0	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			Not Checked
PIPING SYSTEMS			No Entry
Met all required compliance from Check List?			Yes/No/NA
<p>IMPORTANT MESSAGE Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report</p>			

CERTIFICATIONS

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

Prepared By: _____

Building Official: _____

Date: _____

Date: _____

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

Owner Agent: _____

Date: _____

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

Architect: _____

Reg No: _____

Electrical Designer: Wayne E. Allred

Reg No: 45800

Lighting Designer: Wayne E. Allred

Reg No: 45800

Mechanical Designer: Christopher J. Floegel

Reg No: 84276

Plumbing Designer: Francis M. Robertson

Reg No: 84276

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: CCJ
Title: Columbia County Detention Facility
Type: Penitentiary
(WEA File: FL JACKSONVILLE INTL ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	908.70	1,224.30
	\$14,322	\$19,262
ELECTRICITY(MBtu/kWh/\$)	908.70	1,224.30
	266216	358704
	\$14,322	\$19,262
AREA LIGHTS	224.40	250.50
	65742	73398
	\$3,537	\$3,941
MISC EQUIPMT	225.80	225.80
	66156	66156
	\$3,559	\$3,553
PUMPS & MISC	1.70	1.40
	494	405
	\$27	\$22
SPACE COOL	295.60	327.20
	86600	95871
	\$4,659	\$5,148
SPACE HEAT	31.00	111.90
	9072	32776
	\$488	\$1,760
VENT FANS	130.20	307.50
	38152	90098
	\$2,053	\$4,838

Credits Applied: None

Passing Criteria = 16373

Design (including any credits) = 14322

Passing requires Proposed Building cost to be at most 85% of
Baseline cost. This Proposed Building is at 74.4%

PASSES

Project: CCJ
Title: Columbia County Detention Facility
Type: Penitentiary
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Uncovered Parking Areas -- Parking lots and Drives	Yes	0.10	15,600.0	1,560	1,708

Tradable Surfaces: 1708 (W) Allowance for Tradable: 2310 (W)

All External Lighting: 1708 (W)

Complicance check includes a excess/Base allowance of 750.00(W)

PASSES

Project: CCJ
Title: Columbia County Detention Facility
Type: Penitentiary
(WEA File: FL JACKSONVILLE INTL ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
C105	21,002	Confinement Cells	93	2	2	PASSES
C106	21,002	Confinement Cells	81	6	6	PASSES
C104	15	Conference/meeting (Multiple Functions)	697	4	2	PASSES
C110	7,001	Dormitory Living Quarters	1,275	4	2	PASSES
C111	23	Locker Room	320	4	2	PASSES
C208	23	Locker Room	320	4	2	PASSES
C208	7,001	Dormitory Living Quarters	679	2	2	PASSES
C113	15	Conference/meeting (Multiple Functions)	1,450	2	1	PASSES
C213	5	Corridor	556	1	1	PASSES
C114	21,002	Confinement Cells	160	10	10	PASSES
C105	21,002	Confinement Cells	93	2	2	PASSES
C106	21,002	Confinement Cells	81	6	6	PASSES
C104	15	Conference/meeting (Multiple Functions)	697	4	2	PASSES
C110	7,001	Dormitory Living Quarters	1,275	4	2	PASSES
C111	23	Locker Room	320	4	2	PASSES
C208	23	Locker Room	320	4	2	PASSES
C208	7,001	Dormitory Living Quarters	679	2	2	PASSES
C113	15	Conference/meeting (Multiple Functions)	1,450	2	1	PASSES
C213	5	Corridor	556	1	1	PASSES
C114	21,002	Confinement Cells	160	10	10	PASSES
HOUSING CHASE	5	Corridor	843	1	1	PASSES
HOUSING CHASE	5	Corridor	842	1	1	PASSES
HOUSING CHASE	5	Corridor	842	1	1	PASSES
HOUSING CHASE	5	Corridor	843	1	1	PASSES
Electrical Switch	1	Electrical Mechanical Equipment Room - General	331	1	1	PASSES
Electrical Switch	1	Electrical Mechanical Equipment Room - General	300	1	1	PASSES
Water MEter	1	Electrical Mechanical Equipment Room - General	403	1	1	PASSES
1st floor	5	Corridor	1,853	1	1	PASSES
2nd Floor	5	Corridor	1,592	1	1	PASSES
Data	1	Electrical Mechanical Equipment Room - General	178	1	1	PASSES
1st floor	5	Corridor	1,058	1	1	PASSES
						PASSES

Project: CCJ
 Title: Columbia County Detention Facility
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 (WEA File: FL JACKSONVILLE INTL ARPT.tm3)

System Report Compliance

FCU-1	System 21	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 < 65000 Btu/h Cooling Capacity	48000	14.80	13.00	8.00		PASSES
Heating System	Electric Furnace	54000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1520	0.25	0.82			PASSES

FCU-2	System 21	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 < 65000 Btu/h Cooling Capacity	48000	14.80	13.00	8.00		PASSES
Heating System	Electric Furnace	54000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1520	0.25	0.82			PASSES

FCU-3	System 21	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 < 65000 Btu/h Cooling Capacity	48000	14.80	13.00	8.00		PASSES
Heating System	Electric Furnace	54000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1520	0.25	0.82			PASSES

FCU-4	System 21	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	48000	14.80	13.00	8.00		PASSES
Heating System	Electric Furnace	54000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1520	0.25	0.82			PASSES
FCU-6	System 21	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	24000	17.60	13.00	8.00		PASSES
Heating System	Electric Furnace	27000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	635	0.58	0.82			PASSES
FCU-7	System 21	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	24000	17.60	13.00	8.00		PASSES
Heating System	Electric Furnace	27000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	635	0.58	0.82			PASSES
FCU-8	System 21	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	24000	17.60	13.00	8.00		PASSES
Heating System	Electric Furnace	27000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	635	0.58	0.82			PASSES
FCU-9	System 21	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	24000	17.60	13.00	8.00		PASSES
Heating System	Electric Furnace	27000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	635	0.58	0.82			PASSES
FCU-5	System 21	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	36000	17.50	13.00	8.00		PASSES
Heating System	Electric Furnace	40000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1000	0.37	0.82			PASSES
FCU-10	System 21	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	24000	17.60	13.00	8.00		PASSES
Heating System	Electric Furnace	27000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	635	0.58	0.82			PASSES

AHU-1 System 32		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 240000 to 760000 Btu/h Cooling Capacity	309692	10.50	10.00	11.60	11.60	PASSES	
Heating System	Electric Furnace	162000	1.00	1.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5500	0.70	0.82			PASSES	
AHU-2 System 32		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 240000 to 760000 Btu/h Cooling Capacity	309692	10.50	10.00	11.60	11.60	PASSES	
Heating System	Electric Furnace	162000	1.00	1.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5500	0.70	0.82			PASSES	
							PASSES	

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

Project: CCJ

Title: Columbia County Detention Facility

Type: Penitentiary

(WEA File: FL JACKSONVILLE INTL ARPT.fm3)

Water Heater Compliance

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

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
							None

Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted with permission

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 type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	<input 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 type="checkbox"/>	<input type="checkbox"/>
Fenestration	C402.4.4	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.3(8) Table	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement meet those listed in Table C403.2.3(8)	<input 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 type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.3	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 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 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 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 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 type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or variable speed condenser pumps, are designed so that tower cells can run in parallel with larger of flow criteria.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	C405.3	Interior Lighting	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/>	<input 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 st	<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 manufact	<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 shoul	<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 shoul	<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	C402.2.6	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"/>
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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.13	Mechanical	Unenclosed spaces that are heated use only radiant heat.	<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	C403.2.4.7	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	C403.2.6.1	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	C403.4.1.1	Mechanical	Hydronic and multizone HVAC system controls are VAV fans driven by mechanical or electrical variable speed drive per Table C403.4.1.1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.1.3	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	Temperature reset by representative building loads in pumping systems for chiller and boiler systems $>500,000$ Btu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.2.3.2.1	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 cl	<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.	<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	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.3, C403.4.3.2	Mechanical	Fan systems with motors ≥ 7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls 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	C403.4.4.5	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 wi	<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	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	C405.5.1	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	C405.6	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"/>
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"/>
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	C303.1.3	Envelope	Fenestration products are certified as to performance labels or certificates provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Insulation	C303.2, C402.2.4	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	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"/>
Insulation	C402.2.2	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	<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 cfm/ft ² . Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.1.2.2	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	C402.5.3	Envelope	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope	<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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.5, C403.2.4.3	Envelope	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo doors.	<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 thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<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	C403.2.4.1	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 Â°F deadband.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 Â°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 sensors for future connection to controls. Freeze protection systems have automatic controls installed.	<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"/>
HVAC	C403.2.9	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.2.9.1.3	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C403.4.1.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint <=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 >=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.	<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	C403.4.4.5, C403.4.4.5.1-4	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each zone.	<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% capacity, >240 kBtu/h - 25% capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on non-circulating storage water tanks.	<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	C404.3	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	C404.9.2	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	Interior Lighting	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.1	Interior Lighting	Occupancy sensors installed in required spaces.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.1, C405.2.2.3	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.2.1	Interior Lighting	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.3	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.3, C405.2.3.1, C405.2.3.2	Interior Lighting	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	C405.2.3, C405.2.3.1, C405.2.3.3	Interior Lighting	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<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	C405.2.5	Exterior Lighting	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	C405.4.1	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, <= 8 luminaires controlled in	<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 >= 100-percent outdoor air to each individual occupied space, as specified by	<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 hot water requirements, or 100 percent if the building otherwise complies with heat recovery per Section C403.4.5: Waste heat re	<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"/>
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"/>
4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy						

Post Construction	C303.3, 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	C303.3, 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	C408.2.1	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	C408.2.5.1	Interior Lighting	Furnished as-built drawings for electric power systems 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"/>

EnergyGauge Summit® v6.10
INPUT DATA REPORT

Project Information

Project Name: CCJ

Project Title: Columbia County Detention Facility

Address: 4917 E. US Highway 90

State: Florida

Zip: 32055

Owner: Columbia County Board of County Com

Orientation: 0 Deg Clockwise. Walls & Windows will be rotated accordingly

Building Type: Penitentiary

Building Classification: New Finished building

No.of Stories: 1

GrossArea: 30805 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	BLOCK C North	AHU-2	CONDITIONED	10860.0	1	10860.0	<input type="checkbox"/>
2	BLOCK C South	AHU-1	CONDITIONED	10860.0	1	10860.0	<input type="checkbox"/>
3	SW Corridor	NORTH HOUSING CHASE, EAST	CONDITIONED	843.0	1	843.0	<input type="checkbox"/>
4	NW Corridor	NORTH HOUSING CHASE, WEST	CONDITIONED	842.0	1	842.0	<input type="checkbox"/>

5	NE corridro	NORTH HOUSING CHASE, EAST	CONDITIONED	842.0	1	842.0	<input type="checkbox"/>
6	SE Corridor	NORTH HOUSING CHASE, EAST	CONDITIONED	843.0	1	843.0	<input type="checkbox"/>
7	FCU-6	Zone 29	CONDITIONED	331.0	1	331.0	<input type="checkbox"/>
8	FCU-7	Zone 29	CONDITIONED	300.0	1	300.0	<input type="checkbox"/>
9	FCU-8	Zone 29	CONDITIONED	403.0	1	403.0	<input type="checkbox"/>
10	Rover Station	FCU-5	CONDITIONED	3445.0	1	3445.0	<input type="checkbox"/>
11	FCU-9	Zone 29	CONDITIONED	178.0	1	178.0	<input type="checkbox"/>
12	Connecting Corridor	FCU-10	CONDITIONED	1058.0	1	1058.0	<input type="checkbox"/>

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	
In Zone: BLOCK C North										
1	C105	ADA 2 MAN CELL	Confinement Cells	1.00	93.00	8.50	2	186.0	1581.0	<input type="checkbox"/>
2	C106	2MAN CELL	Confinement Cells	1.00	81.00	8.50	6	486.0	4131.0	<input type="checkbox"/>
3	C104	DAYROOM	Conference/meeting (Multiple Functions)	1.00	697.00	18.33	2	1394.0	25552.0	<input type="checkbox"/>
4	C110	DORM	Dormitory Living Quarters	1.00	1275.00	19.33	2	2550.0	49291.5	<input type="checkbox"/>
5	C111	SHOWER	Locker Room	1.00	320.00	8.50	2	640.0	5440.0	<input type="checkbox"/>
6	C208	SHOWER	Locker Room	1.00	320.00	8.50	2	640.0	5440.0	<input type="checkbox"/>
7	C208	DORM	Dormitory Living Quarters	1.00	679.00	10.00	2	1358.0	13580.0	<input type="checkbox"/>
8	C113	DAYROOM	Conference/meeting (Multiple Functions)	1.00	1450.00	18.33	1	1450.0	26578.5	<input type="checkbox"/>
9	C213	WALKWAY	Corridor	1.00	556.00	9.00	1	556.0	5004.0	<input type="checkbox"/>
10	C114	4 MAN CELL	Confinement Cells	1.00	160.00	8.50	10	1600.0	13600.0	<input type="checkbox"/>
In Zone: BLOCK C South										
1	C105	ADA 2 MAN CELL	Confinement Cells	1.00	93.00	8.50	2	186.0	1581.0	<input type="checkbox"/>
2	C106	2MAN CELL	Confinement Cells	1.00	81.00	8.50	6	486.0	4131.0	<input type="checkbox"/>

3	C104	DAYROOM	Conference/meeting (Multiple Functions)	1.00	697.00	18.33	2	1394.0	25552.0	<input type="checkbox"/>
4	C110	DORM	Dormitory Living Quarters	1.00	1275.00	19.33	2	2550.0	49291.5	<input type="checkbox"/>
5	C111	SHOWER	Locker Room	1.00	320.00	8.50	2	640.0	5440.0	<input type="checkbox"/>
6	C208	SHOWER	Locker Room	1.00	320.00	8.50	2	640.0	5440.0	<input type="checkbox"/>
7	C208	DORM	Dormitory Living Quarters	1.00	679.00	10.00	2	1358.0	13580.0	<input type="checkbox"/>
8	C113	DAYROOM	Conference/meeting (Multiple Functions)	1.00	1450.00	18.33	1	1450.0	26578.5	<input type="checkbox"/>
9	C213	WALKWAY	Corridor	1.00	556.00	9.00	1	556.0	5004.0	<input type="checkbox"/>
10	C114	4 MAN CELL	Confinement Cells	1.00	160.00	8.50	10	1600.0	13600.0	<input type="checkbox"/>
In Zone: SW Corridor										
1	HOUSING CHAZo0Sp1		Corridor	843.00	1.00	28.00	1	843.0	23604.0	<input type="checkbox"/>
In Zone: NW Corridor										
1	HOUSING CHAZo0Sp1		Corridor	842.00	1.00	28.00	1	842.0	23576.0	<input type="checkbox"/>
In Zone: NE corridro										
1	HOUSING CHAZo0Sp1		Corridor	842.00	1.00	28.00	1	842.0	23576.0	<input type="checkbox"/>
In Zone: SE Corridor										
1	HOUSING CHAZo0Sp1		Corridor	843.00	1.00	28.00	1	843.0	23604.0	<input type="checkbox"/>
In Zone: FCU-6										
1	Electrical SwitchZo0Sp1		Electrical Mechanical Equipment Room - General	1.00	331.00	24.00	1	331.0	7944.0	<input type="checkbox"/>
In Zone: FCU-7										
1	Electrical SwitchZo0Sp1		Electrical Mechanical Equipment Room - General	1.00	300.00	24.00	1	300.0	7200.0	<input type="checkbox"/>
In Zone: FCU-8										
1	Water MEter Zo0Sp1		Electrical Mechanical Equipment Room - General	1.00	403.00	24.00	1	403.0	9672.0	<input type="checkbox"/>
In Zone: Rover Station										
1	1st floor Zo0Sp1		Corridor	1.00	1853.00	8.66	1	1853.0	16047.0	<input type="checkbox"/>
2	2nd Floor Zo0Sp2		Corridor	1.00	1592.00	8.66	1	1592.0	13786.7	<input type="checkbox"/>
In Zone: FCU-9										
1	Data Zo0Sp1		Electrical Mechanical Equipment Room - General	1.00	178.00	24.00	1	178.0	4272.0	<input type="checkbox"/>
In Zone: Connecting Corridor										
1	1st floor Zo0Sp1		Corridor	1.00	1058.00	11.00	1	1058.0	11638.0	<input type="checkbox"/>

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts	
In Zone: BLOCK C North								
In Space: C105								
1	LED	General Lighting	1	55	55	Manual On/Off	1	<input type="checkbox"/>
In Space: C106								
1	LED	General Lighting	1	55	55	Manual On/Off	1	<input type="checkbox"/>
In Space: C104								
1	LED	General Lighting	4	45	180	Manual On/Off	1	<input type="checkbox"/>
2	LED	General Lighting	6	50	300	Manual On/Off	1	<input type="checkbox"/>
In Space: C110								
1	LED	General Lighting	7	50	350	Manual On/Off	1	<input type="checkbox"/>
2	LED	General Lighting	10	45	450	Manual On/Off	1	<input type="checkbox"/>
In Space: C111								
1	LED	General Lighting	5	45	225	Manual On/Off	1	<input type="checkbox"/>
2	LED	General Lighting	4	23	92	Manual On/Off	1	<input type="checkbox"/>
In Space: C208								
1	LED	General Lighting	3	50	150	Manual On/Off	1	<input type="checkbox"/>
2	LED	General Lighting	4	23	92	Manual On/Off	1	<input type="checkbox"/>
In Space: C208								
1	Suspended Fluorescent	General Lighting	11	50	550	Manual On/Off	1	<input type="checkbox"/>
In Space: C113								
1	LED	General Lighting	5	45	225	Manual On/Off	1	<input type="checkbox"/>
2	LED	General Lighting	15	50	750	Manual On/Off	1	<input type="checkbox"/>
In Space: C213								
1	LED	General Lighting	5	45	225	Manual On/Off	1	<input type="checkbox"/>
In Space: C114								
1	Suspended Fluorescent	General Lighting	1	55	55	Manual On/Off	1	<input type="checkbox"/>
In Zone: BLOCK C South								

In Space:	C105									
	1	LED	General Lighting	1	55	55	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C106									
	1	LED	General Lighting	1	55	55	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C104									
	1	LED	General Lighting	4	45	180	Manual On/Off	1	<input type="checkbox"/>	
	2	LED	General Lighting	6	50	300	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C110									
	1	LED	General Lighting	7	50	350	Manual On/Off	1	<input type="checkbox"/>	
	2	LED	General Lighting	10	45	450	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C111									
	1	LED	General Lighting	5	45	225	Manual On/Off	1	<input type="checkbox"/>	
	2	LED	General Lighting	4	23	92	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C208									
	1	LED	General Lighting	3	50	150	Manual On/Off	1	<input type="checkbox"/>	
	2	LED	General Lighting	4	23	92	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C208									
	1	Suspended Fluorescent	General Lighting	11	50	550	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C113									
	1	LED	General Lighting	5	45	225	Manual On/Off	1	<input type="checkbox"/>	
	2	LED	General Lighting	15	50	750	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C213									
	1	LED	General Lighting	5	45	225	Manual On/Off	1	<input type="checkbox"/>	
In Space:	C114									
	1	Suspended Fluorescent	General Lighting	1	55	55	Manual On/Off	1	<input type="checkbox"/>	
In Zone:	SW Corridor									
In Space:	HOUSING CHASE									
	1	LED	General Lighting	24	48	1152	Manual On/Off	1	<input type="checkbox"/>	
In Zone:	NW Corridor									
In Space:	HOUSING CHASE									
	1	LED	General Lighting	24	48	1152	Manual On/Off	1	<input type="checkbox"/>	
In Zone:	NE corridro									
In Space:	HOUSING CHASE									

	1	LED	General Lighting	24	48	1152	Manual On/Off	1	<input type="checkbox"/>
In Zone: SE Corridor									
In Space: HOUSING CHASE									
	1	LED	General Lighting	24	48	1152	Manual On/Off	1	<input type="checkbox"/>
In Zone: FCU-6									
In Space: Electrical Switch									
	1	LED	General Lighting	3	25	75	Manual On/Off	1	<input type="checkbox"/>
In Zone: FCU-7									
In Space: Electrical Switch									
	1	Suspended Fluorescent	General Lighting	3	25	75	Manual On/Off	1	<input type="checkbox"/>
In Zone: FCU-8									
In Space: Water MEter									
	1	Suspended Fluorescent	General Lighting	3	25	75	Manual On/Off	1	<input type="checkbox"/>
In Zone: Rover Station									
In Space: 1st floor									
	1	LED	General Lighting	15	45	675	Manual On/Off	1	<input type="checkbox"/>
In Space: 2nd Floor									
	1	LED	General Lighting	19	67	1273	Manual On/Off	1	<input type="checkbox"/>
In Zone: FCU-9									
In Space: Data									
	1	LED	General Lighting	3	25	75	Manual On/Off	1	<input type="checkbox"/>
In Zone: Connecting Corridor									
In Space: 1st floor									
	1	LED	General Lighting	15	45	675	Manual On/Off	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]	Orientation	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]	
In Zone: SW Corridor												
1	Pr0Zo21Wa1	T24R19a	72.00	28.00	1	2016.0	West	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa2	T24R19a	76.00	28.00	1	2128.0	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: NW Corridor												
1	Pr0Zo21Wa1	T24R19a	73.00	28.00	1	2044.0	North	0.0466	0.853	7.28	21.5	<input type="checkbox"/>

2	Pr0Zo21Wa2	T24R19a	76.00	28.00	1	2128.0	West	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: NE corridro												
1	Pr0Zo21Wa1	T24R19a	73.00	28.00	1	2044.0	North	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa2	T24R19a	76.00	28.00	1	2128.0	West	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: SE Corridor												
1	Pr0Zo21Wa1	T24R19a	72.00	28.00	1	2016.0	East	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa2	T24R19a	76.00	28.00	1	2128.0	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: FCU-6												
1	Pr0Zo21Wa1	T24R19a	22.00	24.00	1	528.0	West	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa1	T24R19a	14.50	23.00	1	333.5	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: FCU-7												
1	Pr0Zo21Wa1	T24R19a	14.00	23.00	1	322.0	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: FCU-8												
1	Pr0Zo21Wa1	T24R19a	22.00	24.00	1	528.0	East	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa1	T24R19a	18.83	23.00	1	433.1	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: FCU-9												
1	Pr0Zo21Wa1	T24R19a	26.00	11.00	1	286.0	West	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa1	T24R19a	14.00	11.00	1	154.0	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
In Zone: Connecting Corridor												
1	Pr0Zo21Wa1	T24R19a	78.00	14.00	1	1092.0	North	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
2	Pr0Zo21Wa1	T24R19a	78.00	14.00	1	1092.0	South	0.0466	0.853	7.28	21.5	<input type="checkbox"/>
3	Pr0Zo21Wa1	T24R19a	15.00	14.00	1	210.0	West	0.0466	0.853	7.28	21.5	<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:											
In Wall:											<input type="checkbox"/>

Doors

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

In Wall:

☐**Roofs**

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	BLOCK C North											
1	Pr0Zo6Rf1	Mtl Bldg Roof/R-19 Batt	4.31	2000.00	1	8626.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	BLOCK C South											
1	Pr0Zo6Rf1	Mtl Bldg Roof/R-19 Batt	4.31	2000.00	1	8626.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	SW Corridor											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	842.00	1.00	1	842.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	NW Corridor											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	842.00	1.00	1	842.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	NE corridro											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	842.00	1.00	1	842.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	SE Corridor											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	842.00	1.00	1	842.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	FCU-6											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	331.00	1.00	1	331.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	FCU-7											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	331.00	1.00	1	331.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	FCU-8											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	403.00	1.00	1	403.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	Rover Station											
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	1592.00	1.00	1	1592.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone:	FCU-9											

1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	331.00	1.00	1	331.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>
In Zone: Connecting Corridor												
1	Pr0Zo21Rf1	Mtl Bldg Roof/R-19 Batt	1058.00	1.00	1	1058.0	0.00	0.0492	1.34	9.49	20.3	<input type="checkbox"/>

Skylights

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

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: BLOCK C North											
1	Pr0Zo6F11	T24R19b	65.00	132.70	1	8625.5	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: BLOCK C South											
1	Pr0Zo6F11	T24R19b	65.00	132.70	1	8625.5	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: SW Corridor											
1	Pr0Zo22F11	T24R19b	1.00	842.00	1	842.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: NW Corridor											
1	Pr0Zo22F11	T24R19b	1.00	842.00	1	842.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: NE corridro											
1	Pr0Zo22F11	T24R19b	1.00	842.00	1	842.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: SE Corridor											
1	Pr0Zo22F11	T24R19b	1.00	842.00	1	842.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: FCU-6											
1	Pr0Zo22F11	T24R19b	1.00	331.00	1	331.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: FCU-7											
1	Pr0Zo22F11	T24R19b	1.00	331.00	1	331.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone: FCU-8											
1	Pr0Zo22F11	T24R19b	1.00	403.00	1	403.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>

In Zone:	Rover Station										
1	Pr0Zo22F11	T24R19b	1.00	1853.00	1	1853.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone:	FCU-9										
1	Pr0Zo22F11	T24R19b	1.00	331.00	1	331.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>
In Zone:	Connecting Corridor										
1	Pr0Zo22F11	T24R19b	1.00	1058.00	1	1058.0	0.0339	0.86	5.47	29.51	<input type="checkbox"/>

Systems											
FCU-1	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr								No. Of Units	1
Component	Category	Capacity	Efficiency	IPLV							
1	Cooling System	48000.00	14.80	8.00							
2	Heating System	54000.00	1.00								
3	Air Handling System -Supply	1520.00	0.25								
FCU-2	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr								No. Of Units	1
Component	Category	Capacity	Efficiency	IPLV							
1	Cooling System	48000.00	14.80	8.00							
2	Heating System	54000.00	1.00								
3	Air Handling System -Supply	1520.00	0.25								
FCU-3	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr								No. Of Units	1
Component	Category	Capacity	Efficiency	IPLV							
1	Cooling System	48000.00	14.80	8.00							
2	Heating System	54000.00	1.00								
3	Air Handling System -Supply	1520.00	0.25								

FCU-4	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	48000.00	14.80	8.00	<input type="checkbox"/>
2	Heating System	54000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	1520.00	0.25		<input type="checkbox"/>
FCU-6	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24000.00	17.60	8.00	<input type="checkbox"/>
2	Heating System	27000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	635.00	0.58		<input type="checkbox"/>
FCU-7	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24000.00	17.60	8.00	<input type="checkbox"/>
2	Heating System	27000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	635.00	0.58		<input type="checkbox"/>
FCU-8	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24000.00	17.60	8.00	<input type="checkbox"/>
2	Heating System	27000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	635.00	0.58		<input type="checkbox"/>

FCU-9	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24000.00	17.60	8.00	<input type="checkbox"/>
2	Heating System	27000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	635.00	0.58		<input type="checkbox"/>
FCU-5	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	36000.00	17.50	8.00	<input type="checkbox"/>
2	Heating System	40000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	1000.00	0.37		<input type="checkbox"/>
FCU-10	System 21	Constant Volume Air Cooled Split System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24000.00	17.60	8.00	<input type="checkbox"/>
2	Heating System	27000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	635.00	0.58		<input type="checkbox"/>
AHU-1	System 32	Constant Volume Packaged System			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	309692.00	10.50	11.60	<input type="checkbox"/>
2	Heating System	162000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	5500.00	0.70		<input type="checkbox"/>

AHU-2		System 32	Constant Volume Packaged System		No. Of Units	1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	309692.00	10.50	11.60		
2	Heating System	162000.00	1.00			
3	Air Handling System -Supply	5500.00	0.70			

Plant						
Equipment	Category	Size	Inst.No	Eff.	IPLV	

Water Heaters						
W-Heater Description	Capacity Cap.Unit	I/P Rt.	Efficiency	Loss		
1 Gas Storage water heater	119 [Gal]	499900 [Btu/h]	[Ef/Et]	[Btu/h]		

Ext-Lighting						
Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
1 Ext Light 1	Uncovered Parking Areas -- Parking lots and Drives	7	244	15600.00	Photo Sensor control	1708.00

Piping						
No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?

Fenestration Used

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

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat	
187	Matl187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	<input type="checkbox"/>
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	<input type="checkbox"/>
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	<input type="checkbox"/>
82	Matl82	ASPHALT-SHINGLE AND SIDING	Yes	0.4400					<input type="checkbox"/>
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	<input type="checkbox"/>
91	Matl91	BUILDING PAPER, PERMEABLE FELT	Yes	0.0600					<input type="checkbox"/>
407	Matl407	R-19 Generic Insulation	No	19.0000	0.4147	0.0218	0.30	0.2000	<input type="checkbox"/>
77	Matl77	AIR LAYER, 3/4IN TO 4IN, HORIZ. ROOFS	Yes	0.8700					<input type="checkbox"/>
414	Matl414	R-8 generic Insulation	No	8.0000	0.1746	0.0218	0.30	0.2000	<input type="checkbox"/>
80	Matl80	AIR LAYER, 4IN OR MORE, HORIZ. ROOFS	Yes	0.9200					<input type="checkbox"/>

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1052	T24R19a	No	No	0.05	0.85	7.28	21.5	<input type="checkbox"/>

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	82	ASPHALT-SHINGLE AND SIDING		0.000	<input type="checkbox"/>
2	91	BUILDING PAPER, PERMEABLE FELT		0.000	<input type="checkbox"/>
3	244	PLYWOOD, 1/2IN	0.0417	0.000	<input type="checkbox"/>
4	77	AIR LAYER, 3/4IN TO 4IN, HORIZ. ROOFS		0.000	<input type="checkbox"/>
5	407	R-19 Generic Insulation	0.4147	0.000	<input type="checkbox"/>
6	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000	<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1053	T24R19b	No	No	0.03	0.86	5.47	29.5	<input type="checkbox"/>

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	82	ASPHALT-SHINGLE AND SIDING		0.000	<input type="checkbox"/>
2	91	BUILDING PAPER, PERMEABLE FELT		0.000	<input type="checkbox"/>
3	244	PLYWOOD, 1/2IN	0.0417	0.000	<input type="checkbox"/>
4	414	R-8 generic Insulation	0.1746	0.000	<input type="checkbox"/>
5	407	R-19 Generic Insulation	0.4147	0.000	<input type="checkbox"/>
6	80	AIR LAYER, 4IN OR MORE, HORIZ. ROOFS		0.000	<input type="checkbox"/>
7	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000	<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1056	Mtl Bldg Roof/R-19 Batt	No	No	0.05	1.34	9.49	20.3	<input type="checkbox"/>
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	94	BUILT-UP ROOFING, 3/8IN	0.0313	0.000			<input type="checkbox"/>
	2	23	6 in. Insulation	0.5000	0.000			<input type="checkbox"/>