Project Name:	Mid-Rise Mixed-Use (5-story)	NRCC-PRF-01-E	Page 1 of 30
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Compliance Scope:	NewComplete	Input File Name:	Mid-Rise Mixed Use 5-Story Prototype_CZ03 - WH.cibd19

A. PF	A. PROJECT GENERAL INFORMATION					
1.	Project Location (city)	- specify -	7.	# of dwelling units	88	
2.	CA Zip Code		8.	Compliance Software (version)	CBECC-Com 2019.1.0 (1079)	
3.	Climate Zone	3	9.	Building Orientation (deg)	(N) 0 deg	
4.	Total Conditioned Floor Area	113,100 ft ²	10.	Permitted Scope of Work	NewComplete	
5.	Total Unconditioned Floor Area	27,900 ft²	11.	Building Type(s)	Mixed Occupancy	
6.	# of Stories (Habitable Above Grade)	5				

B. COMPLIANCE RESULTS FOR PER	RFORMANCE COMPONENTS	,.0		§ 140.1			
	BUILDING COMPLIES						
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard			
Space Heating	7.23	7.74	-0.51	-7.1%			
Space Cooling	14.77	14.24	0.53	3.6%			
Indoor Fans	10.71	10.54	0.17	1.6%			
Heat Rejection		-					
Pumps & Misc.	0.02	0.08	-0.06	-300.0%			
Domestic Hot Water	20.13	20.13		0.0%			
Indoor Lighting	20.81	20.81		0.0%			
COMPLIANCE TOTAL	73.67	73.54	0.13	0.2%			
Receptacle	58.15	58.15		0.0%			
Process							
Other Ltg	39.77	39.77		0.0%			
Process Motors	2.10	8.42		-301.0%			

Project Name:	Mid-Rise Mixed-Use (5-story)	NRCC-PRF-01-E	Page 2 of 30
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1st	Space Cooling: Check envelope and mechanical	Compliance Margin By Energy Com	ponent (from Table B column 4)
2nd	Indoor Fans: Check envelope and mechanical	Space Cooling	
3rd	Heat Rejection: Check envelope and mechanical	Indoor Fans	
4th	Domestic Hot Water: Check mechanical	Heat Rejection	
5th	Indoor Lighting: Check lighting	Domestic Hot Water	
6th	Pumps & Misc.: Check mechanical	Indoor Lighting Pumps & Misc.	
7th	Space Heating: Check envelope and mechanical	Space Heating	Penalty Energy Credit

D. EXCEPTIONAL CONDITIONS

Water heaters have not been sized to meet loads specified in the NACM and may not have adequate capacity.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

Project Name:	Mid-Rise Mixed-Use (5-story)	NRCC-PRF-01-E	Page 3 of 30
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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY				
	Identify whi	ich building comp	onents use the performance or prescriptive path for compliance. "NA"= not in	project
	For componer	nts that utilize the	performance path, indicate the sheet number that includes mandatory notes	on plans.
Building Component	Com	pliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
		Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
Envelope		Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
		NA	8	
		Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
Mechanical		Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
		NA		
	\boxtimes	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
Domestic Hot Water		Prescriptive	NRCC-PLB-01-E	
		NA	G	
		Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
Lighting (Indoor Conditioned)		Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
		NA		
		Performance	S2 (section of the NRCC-PRF-01-E)	
Covered Process: Commercial Kitchens		Prescriptive	NRCC-PRC-01/ 03-E	
Commercial Records	\boxtimes	NA	9)	
		Performance	S3 (section of the NRCC-PRF-01-E)	
Covered Process: Computer Rooms		Prescriptive	NRCC-PRC-01/ 04-E	
Compater Rooms	⊠	NA		
		Performance	S4 (section of the NRCC-PRF-01-E)	
Covered Process: Laboratory Exhaust		Prescriptive	NRCC-PRC-01/ 09-E	
Education y Extinuest	\boxtimes	NA		

Project Name:	Mid-Rise Mixed-Use (5-story)	NRCC-PRF-01-E	Page 4 of 30
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The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.		The following building components may have mandatory requirements per Part 6. Indicat which are relevant to the project.					
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
	\boxtimes	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E		× ×	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
	\boxtimes	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E		\boxtimes	Electrical: §130.5	NRCC-ELC-01-E
	\boxtimes	Lighting (Sign) §140.8	NRCC-LTS-01-E		\boxtimes	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
		Solar Thermal Water Heating: §140.5	NRCC-STH-01-E			Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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Documentation Author (Retain copies and verif	TALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) — to indicate which Certificates must be submitted for the features to be recognized for compliance y forms are completed and signed to post in field for Field Inspector to verify). MCH and LTI Details Sections for Acceptance Tests and forms by equipment.	Confi	rmed
Building Component	Compliance Forms (required for submittal)	Pass	Fail
Envelope	☐ NRCI-ENV-01-E - For all buildings		
Envelope	☐ NRCA-ENV-02-F- NFRC label verification for fenestration		
	☐ NRCI-MCH-01-E - For all buildings with Mechanical Systems		
	□ NRCA-MCH-02-A- Outdoor Air		
	□ NRCA-MCH-03-A – Constant Volume Single Zone HVAC		
	□ NRCA-MCH-04-H- Air Distribution Duct Leakage		
	□ NRCA-MCH-05-A- Air Economizer Controls		
	□ NRCA-MCH-06-A- Demand Control Ventilation		
	□ NRCA-MCH-07-A – Supply Fan Variable Flow Controls		
	□ NRCA-MCH-08-A- Valve Leakage Test		
	□ NRCA-MCH-09-A – Supply Water Temp Reset Controls		
Mechanical	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls		
	□ NRCA-MCH-11-A – Auto Demand Shed Controls		
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units		
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units		
	□ NRCA-MCH-14-A- Distributed Energy Storage		
	□ NRCA-MCH-15-A – Thermal Energy Storage		
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls		
	□ NRCA-MCH-17-A – Condensate Water Temp Reset Controls		
	☐ NRCA-MCH-18-A- Energy Management Controls Systems		
	□ NRCV-MCH-04-H- Duct Leakage Test		

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Documentation Author to i (Retain copies and verify fo	ndicate which Certificates must be submitted for the features to be recognized for compliance rms are completed and signed to post in field for Field Inspector to verify).	Confirmed			
Building Component	Compliance Forms (required for submittal)	Pass	Fail		
	□ NRCI-PLB-01-E - For all buildings with Plumbing Systems				
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.				
	□ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.				
Dlumbing	□ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.				
Plumbing	□ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.				
	□ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.				
	□ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.				
	□ NRCI-STH-01-E - Any solar water heating				
	□ NRCI-LTI-01-E - For all buildings				
Ī	□ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)				
	□ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting				
	□ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater				
Indoor Lighting	□ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)				
	□ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	Pass Fail			
	□ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.				
	□ NRCA-LTI-03-A - Automatic daylighting controls				
	□ NRCA-LTI-04-A - Demand responsive lighting controls				
	□ NRCI-LTO-01-E – Outdoor Lighting				
Outdoor Lighting	□ NRCI-LTO-02-E- EMCS Lighting Control System				
Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables 6. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment. Building Component Compliance Forms (required for submittal) Pass NRCI-PLB-01-E - For all buildings with Plumbing Systems NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - HERS verified central systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - Lighting control system single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - Lighting control system systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - Lighting control system systems in high-rise residential, hotel/motel application. NRCI-PLB-03-E - Lighting control systems serving an auditorium, a convention system (EMCS) NRCI-PLB-03-E - Lighting control systems serving an auditorium, a convention center, a conference room, or a theater NRCI-PLB-03-E - Lighting Control Credit Power Adjustment Factor (PAF) NRCI-PLB-04-E - Woolf interfocked systems serving an auditorium, a convention center, a conference room, or a theater NRCI-PLB-04-E - Woolf interfocked systems serving an auditorium, a convention center, a conference room, or a theater NRCI-PLB-0					
NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)					
Plumbing NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application. NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. NRCI-STH-01-E - Any solar water heating NRCI-LTI-01-E - For all buildings NRCI-LTI-01-E - For all buildings NRCI-LTI-03-E - Lighting control system, or for an Energy Management Control System (EMCS)					
Photovoltaic	□ NRCI-SPV-01-E Photovoltaic Systems				



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umentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance ain copies and verify forms are completed and signed to post in field for Field Inspector to verify). Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment. Compliance Forms (required for submittal) NRCI-PRC-01-E Refrigerated Warehouse NRCA-PRC-01-F- Compressed Air Systems				
NRCI-PRC-01-E Refrigerated Warehouse		Fail		
-				
NRCA-PRC-01-F- Compressed Air Systems				
NRCA-PRC-02-F- Kitchen Exhaust				
NRCA-PRC-03-F- Garage Exhaust				
NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls				
NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls				
NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls				
NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor				
NRCA-PRC-08-F- Electrical Resistance Underslab Heating System				
N N	RCA-PRC-02-F- Kitchen Exhaust RCA-PRC-03-F- Garage Exhaust RCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls RCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls RCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls RCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	IRCA-PRC-03-F- Kitchen Exhaust IRCA-PRC-03-F- Garage Exhaust IRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls IRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls IRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls IRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor		

I. ENVE	LOPE GENERAL INFORMATION (See	NRCC-PRF-ENV-DETAILS for more i	nformati	on)			
1.	Total Conditioned Floor Area	113,100 ft ²	5.	Number of Floors Above Grade	5	Confi	rmed
2.	Total Unconditioned Floor Area	27,900 ft ²	6.	Number of Floors Below Grade	1		
3.	Addition Conditioned Floor Area	0 ft ²				70	
4.	Addition Unconditioned Floor Area	0 ft ²				Pass	Fail
7. Opaqı	ue Surfaces & Orientation	8. Total Gross Sur	face Area	9. Total Fenestration Area	10. Window to Wall Ratio		
North W	all	9,000 ft ²		1,981 ft²	22.0%		
East Wal	I		12,150 ft ²	2,677 ft ²	22.0%		
South W	all	9,000 ft ²		1,977 ft ²	22.0%		
West Wall		12,150		2,677 ft ²	22.0%		
	Total	42,300 ft ²		9,311 ft ²	22.0%		
Roof			22,620 ft ²	0 ft ²	00.0%		

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J. FENESTRATION ASSEMBLY SU	§ 110.6	Confirmed								
1.	2.	3.	4.	5.	6.	7.	8.	9.	_	
Fenestration Assembly Name / Tag or I.D. Fenestration Type		Certification Method ¹ Assembly Method		Area ft ²	Overall U-factor	Overall SHGC	Overall VT	Status ²	Pass	Fail
Res Fixed Window	VerticalFenestration	NFRCRated	Manufactured	8465	0.36	0.25	0.42	N		
Nonres Fixed Window	VerticalFenestration	NFRCRated	Manufactured	846	0.36	0.25	0.42	N		

¹ Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Site-built fenestration less than 1,000 ft², or more than or equal to 1,000 ft² see Reference Nonresidential Appendix NA6.

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)

K. OPAQUE SURFACE ASSEMBLY SUMMARY						§ 120.7/ § 140.3		Confi	irmed
1.	2.	3. 4.		5.	6.	7.	8.	_	
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹	Pass	Fail
Slab On Or Below Grade F 073	UndergroundFloor				NA				
BelowGradeWallC114	UndergroundWall				NA				
MetalFrameWallU082	ExteriorWall				NA				
MetalFrameWallU069	ExteriorWall				NA				
MetalFrameWallInterior	InteriorWall				NA				
FlatNonresWoodFramingAndOtherRoofUnconditi oned	Roof				NA				
FlatResWoodFramingAndOtherRoofU034Refl08	Roof				NA				
FlatNonresWoodFramingAndOtherRoofU034	Roof				NA				
OtherFloorU071	ExteriorFloor				NA				
TypicalFloorInterior	InteriorFloor				NA				

¹ Status: N - New, A - Altered, E - Existing

² Status: N - New, A - Altered, E - Existing

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L. ROOFING PRODUCT SUMMARY							§ 140.3	Confi	irmed
1.	2.	3.	4.	5.	6.	7.			
Product Type	Product ≥25 lb ft ²	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	CRRC Product	ID Number	Pass	Fail
FlatNonresWoodFramingAndOtherRoofUnconditio ned	No	0.63	0.85		No				
FlatResWoodFramingAndOtherRoofU034Refl08	No	0.55	0.85		No				
FlatNonresWoodFramingAndOtherRoofU034	No	0.63	0.85		No				

M. HVAC SYSTE	HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)											§ 110.1 / § 110.2					
			Ory Syster	m Equipment ¹ (I	Fan & Economizer	info included be	low in Table N)			,		Confi	irmed				
1.	2.	3.	4.	5.	6.	7.	8.	g).	10.	11.						
Equip Name	Equip Type	Equip Type	Equip Type	Equip Type	System Type (Simple ³ or	(Simple ³ or	Qty	Total Heating Output	Supp Heat Source (Y/N)	Supp Heat Output	utput Output	Efficiency		Acceptance Testing Required? (Y/N)	Status ⁶	Pass	Fail
		Complex 4)		(kBtu/h)		(kBtuh)	(kBtu/h)	Cooling	Heating	5	5 6						
BaseAirSys5	PVAV		1	558	No	0	550			NA	N						
BaseAirSys5-2	PVAV		3	50	No	0	50			NA	N						
BaseAirSys5-3	PVAV		1	73	No	0	50			NA	N						
BaseZnSys1	SZAC		3	8	No	0	8	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N						
BaseZnSys1-2	SZAC		6	8	No	0	9	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N						
BaseZnSys1-3	SZAC		6	8	No	0	10	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N						
BaseZnSys1-4	SZAC	20	15	8	No	0	6	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N						
BaseZnSys1-5	SZAC		6	10	No	0	8	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N						

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M. HVAC SYSTE	M SUMMARY (s	ee NRCC-PRF-MC	CH-DETA	ILS for more in	formation)					§ 110.1 / § 110.	2		
		I	Dry Syste	m Equipment ¹ (F	Fan & Economizer	info included be	low in Table N)					Confi	irmed
1.	2.	3.	4.	5.	6.	7.	8.	9).	10.	11.		
Equip Name	Equip Type	System Type (Simple ³ or	Qty	Total Heating Output	Supp Heat Source (Y/N)	Supp Heat Output	Total Cooling Output	Effic	ency	Acceptance Testing Required? (Y/N)	Status ⁶	Pass	Faii
		Complex 4)		(kBtu/h)	,	(kBtuh)	(kBtu/h)	Cooling	Heating	5	S 6		
BaseZnSys1-6	SZAC		9	11	No	0	13	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-7	SZAC		9	11	No	0	15	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-8	SZAC		3	17	No	0	17	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-9	SZAC		3	17	No	0	20	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-10	SZAC		3	8	No	0	11	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-11	SZAC		3	8	No	0	10	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-12	SZAC		1	10	No	0	10	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-13	SZAC		2	10	No	0	10	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-14	SZAC	200	2	10	No	0	12	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		
BaseZnSys1-15	SZAC		5	10	No	0	9	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N		

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)										§ 110.1 / § 110.	2				
	Dry System Equipment ¹ (Fan & Economizer info included below in Table N)											Confi	irmed		
1.	2.	3.	4.	5.	6.	7.	8.	9) .	10.	11.				
Equip Name	Equip Type			(Simple ³ or	Qty	Total Heating Output	Supp Heat Source (Y/N)	Supp Heat Output	Total Cooling Output	Effici	ency	Acceptance Testing Required? (Y/N)	Status ⁶	Pass	Fail
		Complex 4)		(kBtu/h)		(kBtuh)	(kBtu/h)	Cooling	Heating	5	- 6				
BaseZnSys1-16	SZAC		2	13	No	0	11	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				
BaseZnSys1-17	SZAC		3	15	No	0	14	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				
BaseZnSys1-18	SZAC		3	15	No 7	0	17	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				
BaseZnSys1-19	SZAC		1	22	No	0	19	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				
BaseZnSys1-20	SZAC		1	22	No	0	23	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				
BaseZnSys1-21	SZAC		1	10	No	0	12	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				
BaseZnSys1-22	SZAC		1	10	No	0	11	SEER- 14.000 / EER-12.200	AFUE-80.0	NA	N				

	Wet System Equipment ²								Pumps					irmed
12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.		
Equip Name	Equip Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Tank Ext. R Value	Qty	GPM	НР	VSD (Y/N)	Status ⁶	Pass	Fail
NonResBaseGasWaterHeater	Conventional	1					NA	NA	NA	NA	No	N		
NonResBaseElecWaterHeater	Conventional	1					NA	NA	NA	NA	No	N		

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	Wet System Equipment ²									Pumps				
12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.		
Equip Name	Equip Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Tank Ext. R Value	Qty	GPM	НР	VSD (Y/N)	Status ⁶	Pass	Fail
Base Blr	HotWater	NA	NA	NaN		NA	NA	1	19.4	0.500	Yes	N		
Base Blr-2	HotWater	NA	NA	NaN		NA	NA	1	19.4	0.500	Yes	N		

 $^{^{1}}$ Dry System Equipment includes furnaces, air handling units, heat pumps, etc.

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)

No

N. ECONOMIZE	R & FAN S	YSTEMS S	SUMMAR	Y 1								§ 140.4	Confi	irmed
1.	2.				3.	16.				4.		5.		
	Outside Air			Sup	ply Fan	70			Reti	urn Fan		Economizor Typo	Pass	Fail
Equip Name	CFM	CFM	НР	ВНР	TSP (inch WC)	Control	CFM	НР	ВНР	TSP (inch WC)	Control	- Economizer Type (if present)	, %	
BaseAirSys5	NaN	19013	25.000	24.717	5.36	VariableSpeedDrive	NA	NA	NA	NA	NA	DifferentialDryBulb		
BaseAirSys5-2	NaN	1715	3.000	2.230	5.36	VariableSpeedDrive	NA	NA	NA	NA	NA	NoEconomizer		
BaseAirSys5-3	NaN	1607	3.000	2.089	5.36	VariableSpeedDrive	NA	NA	NA	NA	NA	NoEconomizer		
BaseZnSys1	NaN	310	0.125	0.124	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-2	NaN	322	0.250	0.129	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-3	NaN	362	0.250	0.145	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-4	NaN	235	0.125	0.094	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-5	NaN	305	0.125	0.122	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-6	NaN	478	0.250	0.192	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-7	NaN	546	0.250	0.219	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		

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 $^{^{2}}$ Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.

 $^{^3}$ Simple Systems must complete NRCC-CXR-03-E commissioning design review form

⁴ Complex Systems must complete NRCC-CXR-04-E commissioning design review form

⁵ A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS

⁶ Status: N - New, A - Altered, E - Existing

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N. ECONOMIZEI	R & FAN S	YSTEMS S	SUMMAR'	Y ¹			,					§ 140.4	Confi	irmed
1.	2.				3.					4.		5.		
	Outside Air			Supp	oly Fan				Retu	ırn Fan		Economizor Type	Pass	Faii
Equip Name	CFM	CFM	НР	ВНР	TSP (inch WC)	Control	CFM	НР	ВНР	TSP (inch WC)	Control	Economizer Type (if present)	SS	_
BaseZnSys1-8	NaN	645	0.500	0.259	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-9	NaN	735	0.500	0.295	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-10	NaN	409	0.250	0.164	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-11	NaN	379	0.250	0.152	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-12	NaN	363	0.250	0.146	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-13	NaN	376	0.250	0.151	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-14	NaN	440	0.250	0.177	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-15	NaN	323	0.250	0.130	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-16	NaN	396	0.250	0.159	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-17	NaN	533	0.250	0.214	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-18	NaN	628	0.500	0.252	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-19	NaN	716	0.500	0.288	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-20	NaN	851	0.500	0.342	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-21	NaN	440	0.250	0.177	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		
BaseZnSys1-22	NaN	413	0.250	0.166	1.27	ConstantVolume	NA	NA	NA	NA	NA	NA		

 $^{^{1}}$ Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

O. EQUIPMENT CONTROLS	§ 120.2
This Section Does Not Apply	

P. SYSTEM DISTRIBUTION SUMMARY	X0"	§ 120.4/ § 140.4(i)
This Section Does Not Apply		

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)

Yes

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Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	Yes

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) ³					§ 14	40.6	
						Confi	irmed
1.	2.	3.	4.	5	5.		
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance		Pass	Fail
				Area Category Footnotes (Watts)	Tailored Method (Watts)		
Convention, Conference, Multipurpose and Meeting Area	360		0	0	0		
Corridor Area	10,065		0	0	0		
Lounge, Breakroom, or Waiting Area	1,050		0	0	0		
Electrical, Mechanical, Telephone Rooms	807	.0	0	0	0		
Exercise/Fitness Center and Gymnasium Areas	900		0	0	0		
Office Area (>250 square feet)	345	. 65	0	0	0		
Retail Sales Area (Retail Merchandise Sales)	17,613	5	0	0	0		
Stairwell	1,800		0	0	0		
High-Rise Residential Living Spaces	79,440	2	0	0	0		
Laundry Area	720		0	0	0		
Building Totals:	113,100			0			

¹ See Table 140.6-C

² See NRCC-LTI-01-E for unconditioned spaces

³Lighting information for existing spaces modeled is not included in the table

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R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) ¹	
This Section Does Not Apply	

¹If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES	§ 140.9
This Section Does Not Apply	

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS	§ 140.9
This Section Does Not Apply	

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS	§ 140.9	
This Section Does Not Apply		

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS	§ 140.9
This Section Does Not Apply	

T. UNMET LOAD HOURS This Section Does Not Apply

U. ENERGY USE SUMMARY		
	Electric (kWh/yr)	Natural Gas (therms/yr)
Total Annual Baseline	550401	15214.8
Total Annual Proposed	589803	13544.1

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DOCUM	IENTATION AUTHOR'S DECLARATION STATEMENT		§ 10-103	
I certify t	that this Certificate of Compliance documentation is accurate and complete.			
Docume	ntation Author Name:			
Compan	y:	- Signature:		
Address:		Signature Date:		
City/Stat	e/Zip:	CEA Identification (If applicable):		
Phone:				
RESPON	ISIBLE PERSON'S DECLARATION STATEMENT	0		
I certify t	the following under penalty of perjury, under the laws of the State of California:	1.0		
1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business an licensed in the State of California as a civil engineer, mechanical engineer, electrical e	and Professions Code to sign this document as the person responsible for its preparation; and that I an engineer, or I am a licensed architect.		
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Profespreparation; and that I am a licensed contractor performing this work.	fessions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its		
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant Business and Professions Code Sections 5537, 5538 and 6737.1.			
Respons	ible Envelope Designer Name:			
Compan	y:	- Signature:		
Address:		Date Signed:		
City/Stat	e/Zip:	Declaration Statement Type:		
Phone:	4.0)	Title:	License #:	
Respons	ible Lighting Designer Name:	Signature		
Compan	y:	Signature:		
Address:		Date Signed:		
City/Stat	e/Zip:	Declaration Statement Type:		
Phone:		Title:	License #:	
Respons	ible Mechanical Designer Name: - specify -	Cignoturo		
Company:		- Signature:		
Address:		Date Signed:		
City/Stat	e/Zip:	Declaration Statement Type:		
Phone:		Title:	License #:	

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASS	A. OPAQUE SURFACE ASSEMBLY DETAILS			Confi	rmed
1.	2.	3.	4.	Pass	7.7
Surface Name	Surface Type	Description of Assembly Layers	Notes	SS	Fail
SlabOnOrBelowGradeF073	UndergroundFloor				
BelowGradeWallC114	UndergroundWall	Concrete - Solid Grout - 115 lb/ft3 - 8 in.			
MetalFrameWallU082	ExteriorWall	Stucco - 7/8 in. Compliance Insulation R10.06 Air - Metal Wall Framing - 16 or 24 in. OC Gypsum Board - 1/2 in.			
MetalFrameWallU069	ExteriorWall	Stucco - 7/8 in. Compliance Insulation R10.06 Compliance Insulation R2.00 Compliance Insulation R0.20 Compliance Insulation R0.10 Air - Metal Wall Framing - 16 or 24 in. OC Gypsum Board - 1/2 in.			
MetalFrameWallInterior	InteriorWall	Gypsum Board - 5/8 in. Air - Metal Wall Framing - 16 or 24 in. OC Gypsum Board - 5/8 in.			
FlatNonresWoodFramingA ndOtherRoofUnconditione d	Roof	Metal Standing Seam - 1/16 in.			
FlatResWoodFramingAndO therRoofU034Refl08	Roof	Metal Standing Seam - 1/16 in. Compliance Insulation R28.63			
FlatNonresWoodFramingA ndOtherRoofU034	Roof	Metal Standing Seam - 1/16 in. Compliance Insulation R28.63			
OtherFloorU071	ExteriorFloor	Compliance Insulation R9.83 Plywood - 5/8 in. Carpet - 3/4 in.			
TypicalFloorInterior	InteriorFloor	Metal Deck - 1/16 in. Concrete - 140 lb/ft3 - 4 in. Carpet - 3/4 in.			

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B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY					Confi	rmed
1.	2.	3.	4.	5.		
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Overall U-factor	Pass	Fail

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2013-NRCC-MCH-03-E)												Conf	irmed					
	-	1. DESIGN	AIR FLOWS	5						2.	VENTILATI	ON (§ 120	.1)					
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Pass	Fail
Thermal Zone: F1 Business Center	BaseAirSys5	426	85	0.20	213	1	Υ	BaseAirSys5	360	NA			NA	NA	NA	Υ		
Thermal Zone: F1 Corridor	BaseAirSys5	1,373	277	0.20	687	1	Υ	BaseAirSys5	1,920	NA			NA	NA	NA	N		
Thermal Zone: F1 Lounge	BaseAirSys5	1,115	223	0.20	558	1	Υ	BaseAirSys5	1,050	NA			NA	NA	NA	Υ		
Thermal Zone: F1 Fitness Center	BaseAirSys5	616	450	0.73	450	1	Υ	BaseAirSys5	900	NA			NA	NA	NA	N		
Thermal Zone: F1 Leasing Office	BaseAirSys5	282	56	0.20	141	1	Υ	BaseAirSys5	345	NA			NA	NA	NA	N		
Thermal Zone: F1 Mechanical Room	BaseAirSys5	572	114	0.20	286	1	Υ	BaseAirSys5	432	NA			NA	NA	NA	N		

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A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2013-NRCC-MCH-03-E)													Confi	irmed				
	1	L. DESIGN	AIR FLOWS	5						2.	VENTILATI	ON (§ 120	.1)					
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Pass	Fail
Thermal Zone: F1 Retail N-NW	BaseAirSys5	4,023	1,496	0.37	2,012	1	Υ	BaseAirSys5	5,985	NA			NA	NA	NA	N		
Thermal Zone: F1 Retail NE	BaseAirSys5	3,065	1,080	0.35	1,532	1	Υ	BaseAirSys5	4,320	NA			NA	NA	NA	N		
Thermal Zone: F1 Retail SE	BaseAirSys5	2,034	720	0.35	1,017	1	Υ	BaseAirSys5	2,880	NA			NA	NA	NA	N		
Thermal Zone: F1 Retail SW	BaseAirSys5	3,026	1,107	0.37	1,513	1	Υ	BaseAirSys5	4,428	NA			NA	NA	NA	N		
Thermal Zone: F2-4 1-Bed Core N	BaseZnSys1	NA	NA	0.00	NA	NA	N	- none -	720	NA			NA	NA	NA	N		
Thermal Zone: F2-4 1-Bed Core West	BaseZnSys1-2	NA	NA	0.00	NA	NA	N	- none -	1,440	NA			NA	NA	NA	N		
Thermal Zone: F2-4 1-Bed Core East	BaseZnSys1-3	NA	NA	0.00	NA	NA	N	- none -	1,440	NA			NA	NA	NA	N		
Thermal Zone: F2-4 1-Bed North	BaseZnSys1-4	NA	NA	0.00	NA	NA	N	- none -	3,720	NA			NA	NA	NA	N		
Thermal Zone: F2-4 2-Bed Core NE-NW	BaseZnSys1-5	NA	NA	0.00	NA	NA	N	- none -	2,160	NA			NA	NA	NA	N		
Thermal Zone: F2-4 2-Bed East	BaseZnSys1-6	NA	NA	0.00	NA	NA	N	- none -	3,240	NA			NA	NA	NA	N		

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A. MECHANICAL	A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2013-NRCC-MCH-03-E)													Confi	irmed			
	1	L. DESIGN	AIR FLOWS	5						2.	VENTILATI	ON (§ 120	.1)					
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Pass	Fail
Thermal Zone: F2-4 2-Bed West	BaseZnSys1-7	NA	NA	0.00	NA	NA	N	- none -	3,240	NA			NA	NA	NA	N		
Thermal Zone: F2-4 3-Bed NE	BaseZnSys1-8	NA	NA	0.00	NA	NA	N	- none -	1,410	NA			NA	NA	NA	N		
Thermal Zone: F2-4 3-Bed NW	BaseZnSys1-9	NA	NA	0.00	NA	NA	N	- none -	1,410	NA			NA	NA	NA	N		
Thermal Zone: F2-4 Studio SE	BaseZnSys1- 10	NA	NA	0.00	NA	NA	N	- none -	540	NA			NA	NA	NA	N		
Thermal Zone: F2-4 Studio SW	BaseZnSys1- 11	NA	NA	0.00	NA	NA	N	- none -	540	NA			NA	NA	NA	N		
Thermal Zone: F2-4 Corridor	BaseAirSys5- 2	1,496	403	0.27	748	1	Υ	BaseAirSys5- 2	2,760	NA			NA	NA	NA	N		
Thermal Zone: F5 1-Bed Core N	BaseZnSys1- 12	NA	NA	0.00	NA	NA	N	- none -	720	NA			NA	NA	NA	N		
Thermal Zone: F5 1-Bed Core West	BaseZnSys1- 13	NA	NA	0.00	NA	NA	N	- none -	1,440	NA			NA	NA	NA	N		
Thermal Zone: F5 1-Bed Core East	BaseZnSys1- 14	NA	NA	0.00	NA	NA	N	- none -	1,440	NA			NA	NA	NA	N		
Thermal Zone: F5 1-Bed North	BaseZnSys1- 15	NA	NA	0.00	NA	NA	N	- none -	3,720	NA			NA	NA	NA	N		
Thermal Zone: F5 2-Bed Core NE-NW	BaseZnSys1- 16	NA	NA	0.00	NA	NA	N	- none -	2,160	NA			NA	NA	NA	N		

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A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2013-NRCC-MCH-03-E)													Conf	irmed				
	1	1. DESIGN	AIR FLOWS	5						2.	VENTILATI	ON (§ 120	.1)					
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft.2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Pass	Fail
Thermal Zone: F5 2-Bed East	BaseZnSys1- 17	NA	NA	0.00	NA	NA	N	- none -	3,240	NA			NA	NA	NA	N		
Thermal Zone: F5 2-Bed West	BaseZnSys1- 18	NA	NA	0.00	NA	NA	N	7- none -	3,240	NA			NA	NA	NA	N		
Thermal Zone: F5 3-Bed NE	BaseZnSys1- 19	NA	NA	0.00	NA	NA	N	- none -	1,410	NA			NA	NA	NA	N		
Thermal Zone: F5 3-Bed NW	BaseZnSys1- 20	NA	NA	0.00	NA	NA	N	- none -	1,410	NA			NA	NA	NA	N		
Thermal Zone: F5 Studio SE	BaseZnSys1- 21	NA	NA	0.00	NA	NA	N	- none -	540	NA			NA	NA	NA	N		
Thermal Zone: F5 Studio SW	BaseZnSys1- 22	NA	NA	0.00	NA	NA	N	- none -	540	NA			NA	NA	NA	N		
Thermal Zone: F5 Corridor	BaseAirSys5-	1,403	403	0.29	701	1	Υ	BaseAirSys5- 3	2,760	NA			NA	NA	NA	N		
								TOTAL	95,760		NA		NA	NA	NA			

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													§ 140).4
1.	2.	3.	4	ļ.	5.	6.		7.			8.		Confi	irmed
System ID	System Type	Qty		apacity tuh)	Economizer	Zone Name	А	irflow (cfn	n)		Fan		Pass	Fail
System is	System Type	Q cy	Heating	Cooling	LCOHOIIIZEI	Zone Name	Design	Min.	Min. Ratio	ВНР	Cycles	ECM Motor	ISS	≝
BaseZnSys1	SZAC	3	8.00	8.00	No	Thermal Zone: F2-4 1-Bed Core N	310	NA	NA	0.1	×			
BaseZnSys1-2	SZAC	6	8.00	9.00	No	Thermal Zone: F2-4 1-Bed Core West	322	NA	NA	0.1	×			
BaseZnSys1-3	SZAC	6	8.00	10.00	No	Thermal Zone: F2-4 1-Bed Core East	362	NA	NA	0.1				
BaseZnSys1-4	SZAC	15	8.00	6.00	No	Thermal Zone: F2-4 1-Bed North	235	NA	NA	0.1	×			
BaseZnSys1-5	SZAC	6	10.00	8.00	No C	Thermal Zone: F2-4 2-Bed Core NE-NW	305	NA	NA	0.1	×			
BaseZnSys1-6	SZAC	9	11.00	13.00	No	Thermal Zone: F2-4 2-Bed East	478	NA	NA	0.2	×			
BaseZnSys1-7	SZAC	9	11.00	15.00	No	Thermal Zone: F2-4 2-Bed West	546	NA	NA	0.2	×			
BaseZnSys1-8	SZAC	3	17.00	17.00	No	Thermal Zone: F2-4 3-Bed NE	645	NA	NA	0.3				
BaseZnSys1-9	SZAC	3	17.00	20.00	No	Thermal Zone: F2-4 3-Bed NW	735	NA	NA	0.3				
BaseZnSys1-10	SZAC	3	8.00	11.00	No	Thermal Zone: F2-4 Studio SE	409	NA	NA	0.2				
BaseZnSys1-11	SZAC	3	8.00	10.00	No	Thermal Zone: F2-4 Studio SW	379	NA	NA	0.2	×			
BaseZnSys1-12	SZAC	1	10.00	10.00	No	Thermal Zone: F5 1-Bed Core N	363	NA	NA	0.1	×			
BaseZnSys1-13	SZAC	2	10.00	10.00	No	Thermal Zone: F5 1-Bed Core West	376	NA	NA	0.2	×			
BaseZnSys1-14	SZAC	2	10.00	12.00	No	Thermal Zone: F5 1-Bed Core East	440	NA	NA	0.2	×			

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B. ZONAL SYSTEM AN	ND TERMINAL UNI	T SUM	MARY								,		§ 140).4
1.	2.	3.	4	l.	5.	6.		7.			8.		Confi	irmed
System ID	System Type	Qty		Capacity tuh)	Economizer	Zone Name	А	irflow (cfn	n)		Fan		Pass	Fail
System ib	System Type	Quy	Heating	Cooling	LCOHOIIIZEI	Zone Name	Design	Min.	Min. Ratio	ВНР	Cycles	ECM Motor	SS	=
BaseZnSys1-15	SZAC	5	10.00	9.00	No	Thermal Zone: F5 1-Bed North	323	NA	NA	0.1				
BaseZnSys1-16	SZAC	2	13.00	11.00	No	Thermal Zone: F5 2-Bed Core NE-NW	396	NA	NA	0.2				
BaseZnSys1-17	SZAC	3	15.00	14.00	No	Thermal Zone: F5 2-Bed East	533	NA	NA	0.2				
BaseZnSys1-18	SZAC	3	15.00	17.00	No	Thermal Zone: F5 2-Bed West	628	NA	NA	0.3				
BaseZnSys1-19	SZAC	1	22.00	19.00	No C	Thermal Zone: F5 3-Bed NE	716	NA	NA	0.3				
BaseZnSys1-20	SZAC	1	22.00	23.00	No	Thermal Zone: F5 3-Bed NW	851	NA	NA	0.3	\boxtimes			
BaseZnSys1-21	SZAC	1	10.00	12.00	No	Thermal Zone: F5 Studio SE	440	NA	NA	0.2	\boxtimes			
BaseZnSys1-22	SZAC	1	10.00	11.00	No	Thermal Zone: F5 Studio SW	413	NA	NA	0.2				
BaseVAVBox TrmlUnit	VAVReheatBox	1	10.00	NA	NA	Thermal Zone: F1 Business Center	426	85	0.20	NA	NA			
BaseVAVBox TrmlUnit-2	VAVReheatBox	1	53.00	NA	NA	Thermal Zone: F1 Corridor	1373	277	0.20	NA	NA			
BaseVAVBox TrmlUnit-3	VAVReheatBox	1	22.00	NA	NA	Thermal Zone: F1 Lounge	1115	223	0.20	NA	NA			
BaseVAVBox TrmlUnit-4	VAVReheatBox	1	18.00	NA	NA	Thermal Zone: F1 Fitness Center	616	450	0.73	NA	NA			
BaseVAVBox TrmlUnit-5	VAVReheatBox	1	9.00	NA	NA	Thermal Zone: F1 Leasing Office	282	56	0.20	NA	NA			
BaseVAVBox TrmlUnit-6	VAVReheatBox	1	9.00	NA	NA	Thermal Zone: F1 Mechanical Room	572	114	0.20	NA	NA			

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B. ZONAL SYSTEM AN	ND TERMINAL UNI	T SUM	MARY										§ 140	.4
1.	2.	3.	4	i.	5.	6.		7.			8.		Confi	irmed
Sustain ID	Sustain Tuna	04		Capacity tuh)	Economizer	Zone Name	А	irflow (cfn	n)		Fan		Pass	
System ID	System Type	Qty	Heating	Cooling	Economizer	zone Name	Design	Min.	Min. Ratio	ВНР	Cycles	ECM Motor	SS	Fail
BaseVAVBox TrmlUnit-7	VAVReheatBox	1	97.00	NA	NA	Thermal Zone: F1 Retail N-NW	4023	1496	0.37	NA	NA			
BaseVAVBox TrmlUnit-8	VAVReheatBox	1	72.00	NA	NA	Thermal Zone: F1 Retail NE	3065	1080	0.35	NA	NA			
BaseVAVBox TrmlUnit-9	VAVReheatBox	1	52.00	NA	NA	Thermal Zone: F1 Retail SE	2034	720	0.35	NA	NA			
BaseVAVBox TrmlUnit-10	VAVReheatBox	1	77.00	NA	NA	Thermal Zone: F1 Retail SW	3026	1107	0.37	NA	NA			
BaseVAVBox TrmlUnit-11	VAVReheatBox	3	43.00	NA	NA C	Thermal Zone: F2-4 Corridor	1496	403	0.27	NA	NA			
BaseVAVBox TrmlUnit-12	VAVReheatBox	1	66.00	NA	NA	Thermal Zone: F5 Corridor	1403	403	0.29	NA	NA			

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPM	IENT SUMMA	ARY – (Adapte	d from	NRCC-PLB-01)						§ 110.3		Confi	rmed
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	7	
DHW Name	Fuel	Туре	Qty	Distribution Type	Rated Input kBtuh	Efficiency	Pilot Energy (Btu/h)	External Tank Insulation	Vol	Standby Loss	Vol. of Suppl. Storage Tank	~~	Fail
NonResBaseGas WaterHeater	Gas	Conventional	1	Nonrecirculating				NA		0.0811635	NA		
NonResBaseElec WaterHeater	Electricity	Conventional	1	Nonrecirculating				NA		0.0141995	NA		

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E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2013-NRCC-MCH-01-E)

§ RA4

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Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Descri	iption	MCH-02A	MCH-03A	MCH-04A	МСН-05А	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confi	rmed
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
NonResBase GasSHWSyst em	1				1			9					-1	-1	-1					
NonResBase ElecSHWSys tem	1						600													
BaseHWSyst em	1																			
BaseAirSys5	1																			
BaseAirSys5 -2	3				7						-1	-		-						
BaseAirSys5 -3	1																			
BaseZnSys1	3			-8																
BaseZnSys1- 2	6					-							1		-					

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Project Name:	Mid-Rise Mixed-Use (5-story)	NRCC-PRF-01-E	Page 26 of 30
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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2013-NRCC-MCH-01-E)

§ RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Descr	iption	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confi	rmed
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
BaseZnSys1-	6	1						(3						-					
BaseZnSys1- 4	15							XC												
BaseZnSys1- 5	6						-				-1	-	-	-						
BaseZnSys1-	9						10				-1	-	-	-						
BaseZnSys1- 7	9					-	.5							-						
BaseZnSys1-	3					7.7														
BaseZnSys1- 9	3				Ä															
BaseZnSys1- 10	3	1						-							I					
BaseZnSys1- 11	3	1		-0	-	-1		-1							1					
BaseZnSys1- 12	1	1				-1		-1							1					

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2013-NRCC-MCH-01-E)

§ RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Descr	iption	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confi	rmed
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
BaseZnSys1- 13	2					-		(5						-					
BaseZnSys1- 14	2							XC												
BaseZnSys1- 15	5	1	1						1	1					1					
BaseZnSys1- 16	2										-1	-	-	-						
BaseZnSys1- 17	3					<u> </u>	5				-1	-	-1	-						
BaseZnSys1- 18	3					7														
BaseZnSys1- 19	1				Ä															
BaseZnSys1- 20	1	-1	-1			1	1	-	-	-1					I					
BaseZnSys1- 21	1	1	-1	-0	-	1	1	-1	-1	-1					1					
BaseZnSys1- 22	1	1		-		1	1	-1	-1	1					1					

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compliance scope.	Newcompiete		Impacin	c ivallic.	IVIIG	Nise Wilked Ose 5 5	otory i rototyp	C_C203	VV11.C	ibuij	
NRCC-PRF-LTI-DE	TAILS -SECTION START-										
A. INDOOR CONDITI	IONED LIGHTING CONTROL CREDITS (Add	apted from NRCC-LTI-0	D2-E)			,	§ 140.	.6			
This Section Does Not	Apply										
D. INDOOR CONDITI	IONED LIGHTING MANDATORY LIGHTING	CONTROL C (Adamted	from NDCC ITI 02	- \						§ 130.	1
		CONTROLS (Adapted	irom NRCC-LII-02-	<u>-</u>)						8 130	.1
This Section Does Not	Apply rols; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §1:	30 1(d) = Mandatory Daylight: 8	5130 1(e) = Demand Respons	sive							
3130.1(u) = Manaararea coma	1015, 3150.0(b) = Multi Level, 3150.1(c) = Multi Shut Off, 315	oo.1(u) = Manaatory Dayngnt, 3	150.1(c) - Bernana nespons								
C. TAILORED METHO	DD LIGHTING POWER ALLOWANCE SUM	MARY AND CHECKLIST	(Adapted from NR	CC-LTI-04-E)			§ 140.6	5		
General lighting power	r (see Table D)								0		
General lighting power	r from special function areas (see Table E)								N	4	
Additional "use it or lo	se it" (See Table G)								0		
							Total watts		0		
D. GENERAL LIGHTIN	NG POWER (Adapted from NRCC-LTI-04-E	E)						[:	§ 140	.6-D	
This Section Does Not	Apply	10									
E. GENERAL LIGHTIN	NG FROM SPECIAL FUNCTION AREAS (Ad	apted from NRCC-LTI-	04-E)				,	!		.6(c) 3	
Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed	LPD	Floor Area (ft²)	Allowed V	Vatts -	Pass	onfirme	ed Fail
NA	NA	NA	NA	NA		NA	NA			+	
Note: Tailored Method for Spe	ocial Function Areas is not currently implemented						Į.			'	
F. ROOM CAVITY RA	TIO (Adapted from NRCC-LTI-04-E)										
	40	Rect	tangular Spaces						1		
Room Number	Task/Activity Description	Doom Longth (ft)	Doom Win	d+b (f+)	Doom C	avity Haight (ft)	D	CR		Confi	rmed
Room Number	lask/Activity Description	Room Length (ft)	Room Wid	זנוו (ונ)	ROOM C	avity Height (ft)	K.	CK		Pass	Fail
NA	NA	NA	NA			NA	N	IA			
Non-Rectangular Sp	aces	1	,							`	

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This Section Does Not Apply

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Note: All applicable spaces are listed under the Non-Rectangular Spaces table					

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)							
1.	2.	3.	4.			Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail	
0	0	0	0	0			
5. Wall Display							

6. Floor Display and Task Lighting

This Section Does Not Apply

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)

§ 130.4

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Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor			Outdoor	Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A NRCA-LTI-04-A		NRCA-LTO-02-A	_	
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	ass	Fail
Occupant Sensors							
Automatic Time Switch							
Automatic Daylighting							
Demand Responsive							
Outdoor Controls							

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