Project Name:	Mid-Rise Mixed-Use (5-story)	NRCC-PRF-01-E	Page 1 of 30
Project Address:		Calculation Date/Time:	17:51, Thu, Jan 16, 2020
Compliance Scope:	NewComplete	Input File Name:	Mid-Rise Mixed Use 5-Story Prototype_CZ03.cibd19

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 ft^2	**11.**	Building Type(s)	Mixed Occupancy
6.	# of Stories (Habitable Above Grade)	5			

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS **§ 140.1**

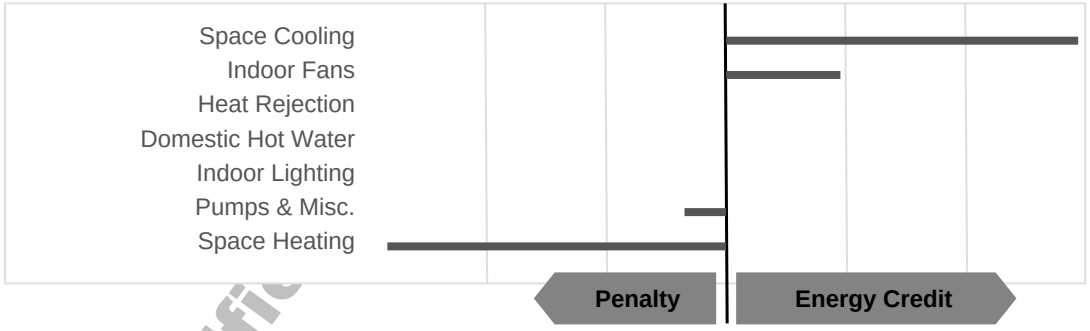
BUILDING COMPLIES

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	20.51	20.51	--	0.0%
Indoor Lighting	20.81	20.81	--	0.0%
COMPLIANCE TOTAL	**74.05**	**73.92**	**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%**

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Space Cooling: Check envelope and mechanical
2nd	Indoor Fans: Check envelope and mechanical
3rd	Heat Rejection: Check envelope and mechanical
4th	Domestic Hot Water: Check mechanical
5th	Indoor Lighting: Check lighting
6th	Pumps & Misc.: Check mechanical
7th	Space Heating: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



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

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path		Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☒	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens	☐	Performance	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performance	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

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. Indicate which are relevant to the project.*			
Yes	**NA**	**Prescriptive Requirement**	**Compliance Forms**	**Yes**	**NA**	**Mandatory Requirement**	**Compliance Forms**
☐	☒	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
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	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

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.		**Confirmed**	
Building Component	**Compliance Forms *(required for submittal)***	**Pass**	**Fail**
Envelope	☐ NRCI-ENV-01-E - For all buildings	☐	☐
	☐ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☐ 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	☐	☐
	☐ 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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Building Component	**Compliance Forms *(required for submittal)***	**Pass**	**Fail**
Plumbing	☐ 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-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.	☐	☐
	☐ 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	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ 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	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ 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	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.	**Confirmed**	
Building Component	**Compliance Forms *(required for submittal)***	**Pass** / **Fail**
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐ ☐
	☐ 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	☐ ☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed	
1.	Total Conditioned Floor Area	113,100 ft^2	**5.**	Number of Floors Above Grade	5		
2.	Total Unconditioned Floor Area	27,900 ft^2	**6.**	Number of Floors Below Grade	1	**Pass**	**Fail**
3.	Addition Conditioned Floor Area	0 ft^2					
4.	Addition Unconditioned Floor Area	0 ft^2					

7. Opaque Surfaces & Orientation	**8. Total Gross Surface Area**	**9. Total Fenestration Area**	**10. Window to Wall Ratio**	**Pass**	**Fail**
North Wall	9,000 ft^2	1,981 ft^2	22.0%	☐	☐
East Wall	12,150 ft^2	2,677 ft^2	22.0%	☐	☐
South Wall	9,000 ft^2	1,977 ft^2	22.0%	☐	☐
West Wall	12,150 ft^2	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%	☐	☐

J. FENESTRATION ASSEMBLY SUMMARY — § 110.6 — Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. 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.

[2] Status: N - New, A – Altered, E – Existing

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 — Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Pass	Fail
SlabOnOrBelowGradeF073	UndergroundFloor				NA			☐	☐
BelowGradeWallC114	UndergroundWall				NA			☐	☐
MetalFrameWallU082	ExteriorWall				NA			☐	☐
MetalFrameWallU069	ExteriorWall				NA			☐	☐
MetalFrameWallInterior	InteriorWall				NA			☐	☐
FlatNonresWoodFramingAndOtherRoofUnconditioned	Roof				NA			☐	☐
FlatResWoodFramingAndOtherRoofU034Refl08	Roof				NA			☐	☐
FlatNonresWoodFramingAndOtherRoofU034	Roof				NA			☐	☐
OtherFloorU071	ExteriorFloor				NA			☐	☐
TypicalFloorInterior	InteriorFloor				NA			☐	☐

[1] Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY — **§ 140.3** — **Confirmed**

1. Product Type	2. Product ≥25 lb ft²	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. CRRC Product ID Number	Pass	Fail
FlatNonresWoodFramingAndOtherRoofUnconditioned	No	0.63	0.85		No		☐	☐
FlatResWoodFramingAndOtherRoofU034Refl08	No	0.55	0.85		No		☐	☐
FlatNonresWoodFramingAndOtherRoofU034	No	0.63	0.85		No		☐	☐

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) — **Confirmed**

1. Equip Name	2. Equip Type	3. System Type (Simple [3] or Complex [4])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency		10. Acceptance Testing Required? (Y/N) [5]	11. Status [6]	Pass	Fail
								Cooling	Heating				
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		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	☐	☐

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) — **Confirmed**

1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Pass	Fail
Equip Name	**Equip Type**	**System Type (Simple [3] or Complex [4])**	**Qty**	**Total Heating Output (kBtu/h)**	**Supp Heat Source (Y/N)**	**Supp Heat Output (kBtuh)**	**Total Cooling Output (kBtu/h)**	**Efficiency**		**Acceptance Testing Required? (Y/N) [5]**	**Status[6]**		
								Cooling	**Heating**				
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		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	☐	☐

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) — **Confirmed**

1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Confirmed	
Equip Name	**Equip Type**	**System Type (Simple [3] or Complex [4])**	**Qty**	**Total Heating Output (kBtu/h)**	**Supp Heat Source (Y/N)**	**Supp Heat Output (kBtuh)**	**Total Cooling Output (kBtu/h)**	**Efficiency**		**Acceptance Testing Required? (Y/N) [5]**	**Status[6]**	**Pass**	**Fail**
								Cooling	**Heating**				
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	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* — **Confirmed**

12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Confirmed	
Equip Name	**Equip Type**	**Qty**	**Vol (gal)**	**Rated Capacity (kBtu/h)**	**Efficiency**	**Standby Loss**	**Tank Ext. R Value**	**Qty**	**GPM**	**HP**	**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	☐	☐

Wet System Equipment [2]								*Pumps*					Confirmed	
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**	**HP**	**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.*
[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*

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1]												§ 140.4	Confirmed	
1.	2.	3.					4.					5.		
Equip Name	**Outside Air**	**Supply Fan**					**Return Fan**					**Economizer Type (if present)**	**Pass**	**Fail**
	CFM	**CFM**	**HP**	**BHP**	**TSP (inch WC)**	**Control**	**CFM**	**HP**	**BHP**	**TSP (inch WC)**	**Control**			
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	☐	☐

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] — **§ 140.4** — **Confirmed**

1.	2.	3.					4.					5.		
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)	Pass	Fail
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control			
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 — **§ 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

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] **§ 140.6**

Confirmed

1.	2.	3.	4.	5.		Pass	Fail
Occupancy Type [1]	**Conditioned Floor Area [2] (ft^2)**	**Installed Lighting Power (Watts)**	**Lighting Control Credits (Watts)**	**Additional (Custom) Allowance**			
				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	☐	☐
Exercise/Fitness Center and Gymnasium Areas	900		0	0	0	☐	☐
Office Area (>250 square feet)	345		0	0	0	☐	☐
Retail Sales Area (Retail Merchandise Sales)	17,613		0	0	0	☐	☐
Stairwell	1,800		0	0	0	☐	☐
High-Rise Residential Living Spaces	79,440		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

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

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1]	**§ 130.0**
This Section Does Not Apply	

[1] *If 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	554758	14785.6
Total Annual Proposed	594160	13114.9

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		**§ 10-103**
I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name:	Signature:	
Company:		
Address:	Signature Date:	
City/State/Zip:	CEA Identification (If applicable):	
Phone:		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
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 to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Lighting Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: - specify -	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS				Confirmed	
1.	2.	3.	4.	Pass	Fail
Surface Name	**Surface Type**	**Description of Assembly Layers**	**Notes**		
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.		☐	☐
FlatNonresWoodFramingAndOtherRoofUnconditioned	Roof	Metal Standing Seam - 1/16 in.		☐	☐
FlatResWoodFramingAndOtherRoofU034Refl08	Roof	Metal Standing Seam - 1/16 in. Compliance Insulation R28.63		☐	☐
FlatNonresWoodFramingAndOtherRoofU034	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.		☐	☐

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

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY — Confirmed

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

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2013-NRCC-MCH-03-E)* — Confirmed

	1. DESIGN AIR FLOWS							2. VENTILATION (§ 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	Y	BaseAirSys5	360	NA			NA	NA	NA	Y	☐	☐
Thermal Zone: F1 Corridor	BaseAirSys5	1,373	277	0.20	687	1	Y	BaseAirSys5	1,920	NA			NA	NA	NA	N	☐	☐
Thermal Zone: F1 Lounge	BaseAirSys5	1,115	223	0.20	558	1	Y	BaseAirSys5	1,050	NA			NA	NA	NA	Y	☐	☐
Thermal Zone: F1 Fitness Center	BaseAirSys5	616	450	0.73	450	1	Y	BaseAirSys5	900	NA			NA	NA	NA	N	☐	☐
Thermal Zone: F1 Leasing Office	BaseAirSys5	282	56	0.20	141	1	Y	BaseAirSys5	345	NA			NA	NA	NA	N	☐	☐
Thermal Zone: F1 Mechanical Room	BaseAirSys5	572	114	0.20	286	1	Y	BaseAirSys5	432	NA			NA	NA	NA	N	☐	☐

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2013-NRCC-MCH-03-E)* — **Confirmed**

	1. DESIGN AIR FLOWS							2. VENTILATION (§ 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	Y	BaseAirSys5	5,985	NA			NA	NA	NA	N	☐	☐
Thermal Zone: F1 Retail NE	BaseAirSys5	3,065	1,080	0.35	1,532	1	Y	BaseAirSys5	4,320	NA			NA	NA	NA	N	☐	☐
Thermal Zone: F1 Retail SE	BaseAirSys5	2,034	720	0.35	1,017	1	Y	BaseAirSys5	2,880	NA			NA	NA	NA	N	☐	☐
Thermal Zone: F1 Retail SW	BaseAirSys5	3,026	1,107	0.37	1,513	1	Y	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	☐	☐

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2013-NRCC-MCH-03-E)* — **Confirmed**

	1. DESIGN AIR FLOWS							2. VENTILATION (§ 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	Y	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	☐	☐

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2013-NRCC-MCH-03-E)* — **Confirmed**

1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)									Confirmed	
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: 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	- 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	BaseAirSys5-3	1,403	403	0.29	701	1	Y	BaseAirSys5-3	2,760	NA			NA	NA	NA	N	☐	☐
								TOTAL	95,760		NA		NA	NA	NA		☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — **§ 140.4**

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
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	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	☒	☐	☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — **§ 140.4**

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
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	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	☒	☐	☐	☐
BaseZnSys1-21	SZAC	1	10.00	12.00	No	Thermal Zone: F5 Studio SE	440	NA	NA	0.2	☒	☐	☐	☐
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	☐	☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — **§ 140.4**

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
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	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 EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)* — **§ 110.3** — **Confirmed**

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	Pass	Fail
DHW Name	Fuel	Type	Qty	Distribution Type	Rated Input kBtuh	Efficiency	Pilot Energy (Btu/h)	External Tank Insulation	Vol	Standby Loss	Vol. of Suppl. Storage Tank		
NonResBaseGas WaterHeater	Gas	Conventional	1	Nonrecirculating				NA		0.0811635	NA	☐	☐
NonResBaseElec WaterHeater	Electricity	Conventional	1	Nonrecirculating				NA		0.0141995	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

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

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 Description		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	Confirmed	
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
NonResBaseGasSHWSystem	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
NonResBaseElecSHWSystem	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseHWSystem	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseAirSys5	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseAirSys5-2	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseAirSys5-3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-2	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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 Description		**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**	**Confirmed**	
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**
BaseZnSys1-3	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-4	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-5	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-6	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-7	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-8	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-9	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-10	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-11	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-12	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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 Description		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	Confirmed	
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-14	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-15	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-16	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-17	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-18	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-19	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-20	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-21	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
BaseZnSys1-22	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)	**§ 140.6**
This Section Does Not Apply	

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	**§ 130.1**
This Section Does Not Apply	

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	**§ 140.6**
General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)	**§ 140.6-D**
This Section Does Not Apply	

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft^2)	**Allowed Watts**	**Confirmed**	
							Pass	**Fail**
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces

Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	**RCR**	**Confirmed**	
						Pass	**Fail**
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

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.	Allowed Watts	Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise		Pass	Fail
0	0	0	0	**0**	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

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**

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	Pass	Fail
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls		
Occupant Sensors		☐	☐	☐	☐	☐	☐
Automatic Time Switch		☐	☐	☐	☐	☐	☐
Automatic Daylighting		☐	☐	☐	☐	☐	☐
Demand Responsive		☐	☐	☐	☐	☐	☐
Outdoor Controls		☐	☐	☐	☐	☐	☐