PERFORMANCE CERTIFICATE OF COMPLIANCE — Part 1 of 3 — PERF-1

PROJECT NAME: Saticoy Apartments		DATE: 4/5/2006
PROJECT ADDRESS: 20223-20237 Saticoy Street Winnetka		Building Permit #
PRINCIPAL DESIGNER - ENVELOPE: JAG Architecture	TELEPHONE: 949.752.1207	Checked by/Date
DOCUMENTATION AUTHOR: Davar & Associates Inc.	TELEPHONE: (562) 777-8050	Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS	BUILDING CONDITIONED FLOOR AREA: 79,915 Sq.Ft.		CLIMATE ZONE: 6
BUILDING TYPE	☒ NONRESIDENTIAL	☒ HIGH RISE RESIDENTIAL	☐ HOTEL/MOTEL GUEST ROOM
PHASE OF CONSTRUCTION	☒ NEW CONSTRUCTION	☐ ADDITION	☐ EXISTING + ADDITION/ALTERATION

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR: DAVAR & ASSOCIATES, INC.
SIGNATURE:
DATE: 03/20/09

The Principal Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building as designed meets the energy efficiency requirements contained in sections 110, 116, through 118, and 140, 142, 143 or 149 of Title 24, Part 6.

ENV. LTG. MECH.

☐ ☐ ☐ 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, 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 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. (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

ENVELOPE COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures
Required Forms: ENV-1
PRINCIPAL ENVELOPE DESIGNER - NAME: JAG Architecture | SIGNATURE | LIC. NO. | DATE

LIGHTING COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures
Required Forms: Lighting Compliance Not In The Scope Of This Submittal
PRINCIPAL LIGHTING DESIGNER - NAME | SIGNATURE | LIC. NO. | DATE

MECHANICAL COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures
Required Forms: MECH-1, MECH-2, MECH-3, MECH-5
PRINCIPAL MECHANICAL DESIGNER - NAME: Davar & Associates, Inc. | SIGNATURE | LIC. NO. M31157 | DATE 03/20/09

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PERFORMANCE CERTIFICATE OF COMPLIANCE — Part 2 of 3 — PERF-1

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)

ENERGY COMPONENT	Standard Design	Proposed Design	Compliance Margin
Space Heating	0.56	0.58	-0.02
Space Cooling	37.03	37.74	-0.71
Indoor Fans	9.10	7.69	1.41
Heat Rejection	2.27	0.00	2.27
Pumps & Misc.	1.63	0.35	1.28
Domestic Hot Water	1.63	5.85	-4.22
Lighting	33.26	33.26	0.00
Receptacle	32.99	32.99	0.00
Process	0.00	0.00	0.00
TOTALS:	118.48	118.46	0.01

Percent better than Standard: 0.0% (0.0% excluding process)

BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation	(N) 0 deg	Conditioned Floor Area	79,915 sqft.
Number of Stories	4	Unconditioned Floor Area	4 sqft.
Number of Systems	80	Conditioned Footprint Area	19,840 sqft.
Number of Zones	98	Fuel Type	Natural Gas

	Orientation	Gross Area	Glazing Area	Glazing Ratio
Front Elevation	(N)	26,580 sqft.	2,180 sqft.	8.2%
Left Elevation	(E)	8,110 sqft.	984 sqft.	12.1%
Rear Elevation	(S)	13,921 sqft.	2,850 sqft.	20.5%
Right Elevation	(W)	9,109 sqft.	1,006 sqft.	11.0%
Total		57,721 sqft.	7,020 sqft.	12.2%
Roof		21,658 sqft.	0 sqft.	0.0%

	Standard	Proposed
Lighting Power Density	1.333 W/sqft.	1.333 W/sqft.
Prescriptive Env. Heat Loss	11,459 Btu/h	9,957 Btu/h
Prescriptive Env. Heat Gain	768,929 Btu/h-F	604,186 Btu/h-F

Remarks:

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CERTIFICATE OF COMPLIANCE — ENV-1-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

OPAQUE SURFACES

#	Surface Type	Area	U-Fac.	Insulation Cav.	Insulation Cont.	Act. Azm.	Tilt	Cond. Status *	Joint Appendix IV Reference	Location / Comments
1	Wall	11	0.102	R-13	R-0.0	270	90	New	09-A3	Unit F1 424
2	Wall	11	0.102	R-13	R-0.0	90	90	New	09-A3	Unit F1 424
3	Wall	212	0.102	R-13	R-0.0	180	90	New	09-A3	Unit F1 424
4	Roof	639	0.036	R-30	R-0.0	0	0	New	02-A9	Unit F1 424
5	Demising	167	0.110	R-11	R-0.0	0	90	New	09-A2	Unit F2 425 (faces Uncondition Zone)
6	Wall	222	0.102	R-13	R-0.0	0	90	New	09-A3	Unit F2 425
7	Wall	20	0.102	R-13	R-0.0	270	90	New	09-A3	Unit F2 425
8	Wall	20	0.102	R-13	R-0.0	90	90	New	09-A3	Unit F2 425
9	Roof	691	0.036	R-30	R-0.0	180	0	New	02-A9	Unit F2 425
10	Wall	10	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A2 402
11	Wall	10	0.102	R-13	R-0.0	90	90	New	09-A3	Unit A2 402
12	Wall	260	0.102	R-13	R-0.0	180	90	New	09-A3	Unit A2 402
13	Roof	853	0.036	R-30	R-0.0	0	0	New	02-A9	Unit A2 402
14	Wall	21	0.102	R-13	R-0.0	90	90	New	09-A3	Unit A3 403
15	Wall	21	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A3 403
16	Wall	356	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A3 403
17	Wall	292	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A3 403
18	Wall	250	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A3 403
19	Roof	876	0.036	R-30	R-0.0	180	0	New	02-A9	Unit A3 403
20	Wall	10	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A2 404

* N, E, A, R (New, Existing, Altered, Removed)

FENESTRATION SURFACES

☐ More than or equal to 10,000 sq.ft. of site-built fenestration area must include a label certificate either issued by NFRC or provide a CEC Default Label Certificate using the default U-factors from Standards Table 116-A and B. Certificate shall be filed in the contractor's project office during construction and in the building manager's office after construction

#	Type	Area	U-Fac. 1	SHGC 2	Act. Azm.	Cond. Stat.	Glazing Type	Location/ Comments
1	Window Rear (S)	20	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit F1 424
2	Window Rear (S)	34	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit F1 424
3	Window Front (N)	20	0.310 NFRC	0.32 NFRC	0	New	ATI Dimension4 Glass	Unit F2 425
4	Window Front (N)	24	0.310 NFRC	0.32 NFRC	0	New	ATI Dimension4 Glass	Unit F2 425
5	Window Rear (S)	16	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 402
6	Window Rear (S)	40	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 402
7	Window Rear (S)	20	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 402
8	Window Rear (S)	20	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 402
9	Window Front (N)	12	0.310 NFRC	0.32 NFRC	0	New	ATI Dimension4 Glass	Unit A3 403
10	Window Front (N)	20	0.310 NFRC	0.32 NFRC	0	New	ATI Dimension4 Glass	Unit A3 403
11	Window Front (N)	16	0.310 NFRC	0.32 NFRC	0	New	ATI Dimension4 Glass	Unit A3 403
12	Window Front (N)	16	0.310 NFRC	0.32 NFRC	0	New	ATI Dimension4 Glass	Unit A3 403
13	Window Rear (S)	16	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 404

(1) U-factor Type: 116-A Default Table from Standards, Table NI-1 Default Table from the ACM Manual Appendix, NFRC Labeled value.
(2) SHGC Type: 116-B Default Table from Standards, COG Center of Glass, NFRC Labeled Value

EXTERIOR SHADING

#	Exterior Shade Type	SHGC	Window Hgt. Wd.	Overhang Len. Hgt. LExt. RExt.	Left Fin Dist. Len. Hgt.	Right Fin Dist. Len. Hgt.
1	None	0.76				
2	None	0.76				
3	None	0.76				
4	None	0.76				
5	None	0.76				
6	None	0.76				
7	None	0.76				
8	None	0.76				
9	None	0.76				
10	None	0.76				
11	None	0.76				
12	None	0.76				
13	None	0.76				

MINIMUM SKYLIGHT AREA FOR LARGE ENCLOSED SPACES

☐ The proposed building contains an enclosed space with floor area greater than 25,000 sq.ft, a ceiling height greater than 15 feet and a LPD for general lighting of at least 0.5 W/sq.ft. If this box is checked, ENV-4-C must be filled out when submitting under the Prescriptive Compliance Approach.

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CERTIFICATE OF COMPLIANCE — ENV-1-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

OPAQUE SURFACES

#	Surface Type	Area	U-Fac.	Insulation Cav.	Insulation Cont.	Act. Azm.	Tilt	Cond. Status *	Joint Appendix IV Reference	Location / Comments
21	Wall	10	0.102	R-13	R-0.0	90	90	New	09-A3	Unit A2 404
22	Wall	356	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A2 404
23	Wall	260	0.102	R-13	R-0.0	180	90	New	09-A3	Unit A2 404
24	Roof	853	0.036	R-30	R-0.0	0	0	New	02-A9	Unit A2 404
25	Demising	194	0.110	R-11	R-0.0	0	90	New	09-A2	Unit A1 407 (faces Uncondition Zone)
26	Wall	344	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A1 407
27	Wall	284	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A1 407
28	Wall	41	0.102	R-13	R-0.0	180	90	New	09-A3	Unit A1 407
29	Roof	774	0.036	R-30	R-0.0	90	0	New	02-A9	Unit A1 407
30	Wall	38	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A1 408
31	Wall	284	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A1 408
32	Wall	235	0.102	R-13	R-0.0	0	90	New	09-A3	Unit A1 408
33	Roof	774	0.036	R-30	R-0.0	90	0	New	02-A9	Unit A1 408
34	Wall	21	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A3 411
35	Wall	21	0.102	R-13	R-0.0	90	90	New	09-A3	Unit A3 411
36	Wall	292	0.102	R-13	R-0.0	180	90	New	09-A3	Unit A3 411
37	Roof	876	0.036	R-30	R-0.0	0	0	New	02-A9	Unit A3 411
38	Wall	21	0.102	R-13	R-0.0	270	90	New	09-A3	Unit A3 413
39	Wall	21	0.102	R-13	R-0.0	90	90	New	09-A3	Unit A3 413
40	Wall	292	0.102	R-13	R-0.0	180	90	New	09-A3	Unit A3 413

* N, E, A, R (New, Existing, Altered, Removed)

FENESTRATION SURFACES

☐ More than or equal to 10,000 sq.ft. of site-built fenestration area must include a label certificate either issued by NFRC or provide a CEC Default Label Certificate using the default U-factors from Standards Table 116-A and B. Certificate shall be filed in the contractor's project office during construction and in the building manager's office after construction

#	Type	Area	U-Fac. 1	SHGC 2	Act. Azm.	Cond. Stat.	Glazing Type	Location/ Comments
14	Window Rear (S)	40	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 404
15	Window Rear (S)	20	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 404
16	Window Rear (S)	20	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A2 404
17	Window Right (W)	20	0.310 NFRC	0.32 NFRC	270	New	ATI Dimension4 Glass	Unit A1 407
18	Window Right (W)	16	0.310 NFRC	0.32 NFRC	270	New	ATI Dimension4 Glass	Unit A1 407
19	Window Right (W)	24	0.310 NFRC	0.32 NFRC	270	New	ATI Dimension4 Glass	Unit A1 407
20	Window Right (W)	20	0.310 NFRC	0.32 NFRC	270	New	ATI Dimension4 Glass	Unit A1 408
21	Window Right (W)	16	0.310 NFRC	0.32 NFRC	270	New	ATI Dimension4 Glass	Unit A1 408
22	Window Right (W)	24	0.310 NFRC	0.32 NFRC	270	New	ATI Dimension4 Glass	Unit A1 408
23	Window Rear (S)	12	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A3 411
24	Window Rear (S)	20	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A3 411
25	Window Rear (S)	16	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A3 411
26	Window Rear (S)	16	0.310 NFRC	0.32 NFRC	180	New	ATI Dimension4 Glass	Unit A3 411

(1) U-factor Type: 116-A Default Table from Standards, Table NI-1 Default Table from the ACM Manual App

EXTERIOR SHADING

#	Exterior Shade Type	SHGC	Window Hgt. Wd.	Overhang Len. Hgt. LExt. RExt.	Left Fin Dist. Len. Hgt.	Right Fin Dist. Len. Hgt.
14	None	0.76				
15	None	0.76				
16	None	0.76				
17	None	0.76				
18	None	0.76				
19	None	0.76				
20	None	0.76				
21	None	0.76				
22	None	0.76				
23	None	0.76				
24	None	0.76				
25	None	0.76				
26	None	0.76				

The proposed building contains an enclosed space with floor area greater than 25,000 sq.ft, a ceiling height greater than 15 feet and a LPD for general lighting of at least 0.5 W/sq.ft. If this box is checked, ENV-4-C must be filled out when submitting under the Prescriptive Compliance Approach.

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CERTIFICATE OF COMPLIANCE — MECH-1-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

SYSTEM ACCEPTANCE. Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

In addition a Certificate of Acceptance, MECH-1-A Form shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6.

STATEMENT OF COMPLIANCE

☐ MECH-2-A: Ventilation System Acceptance Document
-Variable Air Volume Systems Outdoor Air Acceptance
-Constant Air Volume Systems Outdoor Air Acceptance
Equipment requiring acceptance testing
Test required on all New systems both New Construction and Retrofit.

☐ MECH-3-A: Packaged HVAC Systems Acceptance Document
Equipment requiring acceptance testing
Test required on all New systems both New Construction and Retrofit.

☐ MECH-4-A: Air-Side Economizer Acceptance Document
Equipment requiring acceptance testing
Test required on all New systems both New Construction and Retrofit. Units with economizers that are installed at the factory and certified with the commission do not require equipment testing but do require construction inspection.

☐ MECH-5-A: Air Distribution Acceptance Document
Equipment requiring acceptance testing
This test required if the unit serves 5,000 ft2 of space or less and 25% or more of the ducts are in nonconditioned or semiconditioned space like an attic. New systems that meet the above requirements. Retrofit systems that meet the above requirements and either extend ducts, replace ducts or replace the packaged unit.

☐ MECH-6-A: Demand Control Ventilation Acceptance Document
Equipment requiring acceptance testing
All new DCV controls installed on new or existing packaged systems must be tested.

☐ MECH-7-A: Supply Fan Variable Flow Control Acceptance Document
Equipment requiring acceptance testing
All new VAV fan volume controls installed on new or existing systems must be tested

☐ MECH-8-A: -Hydronic System Control Acceptance Document
-Variable Flow Controls — Applies to chilled and hot water systems.
-Automatic Isolation Controls — Applies to new boilers and chillers and the primary pumps are connected to a common header.
-Supply Water Temperature Reset Controls — Applies to new constant flow chilled and hot water systems that have a design capacity greater than or equal to 500,000 Btu/hr.
-Water-loop Heat Pump Controls — Applies to all new waterloop heat pump systems where the combined loop pumps are greater than 5 hp.
-Variable Frequency Controls — Applies to all new distribution pumps on new variable flow chilled, hydronic heat pump or condenser water systems where the pumps motors are greater than 5 hp.
Equipment requiring acceptance testing

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AIR SYSTEM REQUIREMENTS — Part 1 of 2 — MECH-2-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

SYSTEM FEATURES

	T-24 Section	CU/FC-1	CU/FC-2	CU/FC-3
ITEM OR SYSTEM TAG(S)		CU/FC-1	CU/FC-2	CU/FC-3
Number of Systems		2	14	4
MANDATORY MEASURES		Reference on Plans or Specification 1		
Heating Equipment Efficiency	112(a)	8.00 HSPF	7.90 HSPF	8.10 HSPF
Cooling Equipment Efficiency	112(a)	13.0 SEER / 10.8 EER	13.0 SEER / 11.0 EER	13.0 SEER / 10.4 EER
Heat Pump Thermostat	112(b)	Yes	Yes	Yes
Furnace Controls	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
Minimum Ventilation	121(b)	200 cfm	1742 cfm	513 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	121(c), 122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	Heating Required	Heating Required	Heating Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Insulation	124	R-4.2	R-4.2	R-4.2
PRESCRIPTIVE MEASURES				
Calculated Heating Capacity x 1.43 2	144 (a & b)	n/a	n/a	n/a
Proposed Heating Capacity 2	144 (a & b)	29,485 btuh	272,845 btuh	98,282 btuh
Calculated Sensible Cooling Capacity x 1.21 2	144 (a & b)	n/a	n/a	n/a
Proposed Sensible Cooling Capacity 2	144 (a & b)	25,545 btuh	295,092 btuh	88,244 btuh
Fan Control	144 (c)	Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144 (c)			
Supply Pressure Reset (DDC only)	144 (c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144 (d)	No	No	No
Economizer	144 (e)	No Economizer	No Economizer	No Economizer
Heating Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Cooling Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Duct Sealing for Prescriptive Compliance 3	144 (k)	No	No	No

1: For each central and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.
2: Not required for hydronic heating and cooling. Either enter a value here or put in reference of plans and specifications per footnote 1.
3: Enter Yes if System is: Constant Volume, Single Zone; Serves < 5,000 sqft; Has > 25% duct in unconditioned space. Duct sealing is required for Prescriptive Compliance, see PERF-1 for performance method duct sealing requirements.

NOTES TO FIELD - For Building Department Use Only

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AIR SYSTEM REQUIREMENTS — Part 1 of 2 — MECH-2-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

SYSTEM FEATURES

	T-24 Section	CU/FC-1	CU/FC-2	CU/FC-3
ITEM OR SYSTEM TAG(S)		CU/FC-1	CU/FC-2	CU/FC-3
Number of Systems		2	14	9
MANDATORY MEASURES		Reference on Plans or Specification 1		
Heating Equipment Efficiency	112(a)	8.00 HSPF	7.90 HSPF	8.10 HSPF
Cooling Equipment Efficiency	112(a)	13.0 SEER / 10.8 EER	13.0 SEER / 11.0 EER	13.0 SEER / 10.4 EER
Heat Pump Thermostat	112(b)	Yes	Yes	Yes
Furnace Controls	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
Minimum Ventilation	121(b)	200 cfm	1742 cfm	1307 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	121(c), 122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	Heating Required	Heating Required	Heating Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Insulation	124	R-4.2	R-4.2	R-4.2
PRESCRIPTIVE MEASURES				
Calculated Heating Capacity x 1.43 2	144 (a & b)	n/a	n/a	n/a
Proposed Heating Capacity 2	144 (a & b)	29,485 btuh	272,845 btuh	221,134 btuh
Calculated Sensible Cooling Capacity x 1.21 2	144 (a & b)	n/a	n/a	n/a
Proposed Sensible Cooling Capacity 2	144 (a & b)	26,140 btuh	302,222 btuh	148,182 btuh
Fan Control	144 (c)	Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144 (c)			
Supply Pressure Reset (DDC only)	144 (c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144 (d)	No	No	No
Economizer	144 (e)	No Economizer	No Economizer	No Economizer
Heating Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Cooling Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Duct Sealing for Prescriptive Compliance 3	144 (k)	No	No	No

1: For each central and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.
2: Not required for hydronic heating and cooling. Either enter a value here or put in reference of plans and specifications per footnote 1.
3: Enter Yes if System is: Constant Volume, Single Zone; Serves < 5,000 sqft; Has > 25% duct in unconditioned space. Duct sealing is required for Prescriptive Compliance, see PERF-1 for performance method duct sealing requirements.

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AIR SYSTEM REQUIREMENTS — Part 1 of 2 — MECH-2-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

SYSTEM FEATURES

	T-24 Section	CU/FC-1	CU/FC-2	CU/FC-3
ITEM OR SYSTEM TAG(S)		CU/FC-1	CU/FC-2	CU/FC-3
Number of Systems		2	14	9
MANDATORY MEASURES		Reference on Plans or Specification 1		
Heating Equipment Efficiency	112(a)	8.00 HSPF	7.90 HSPF	8.10 HSPF
Cooling Equipment Efficiency	112(a)	13.0 SEER / 10.8 EER	13.0 SEER / 11.0 EER	13.0 SEER / 10.4 EER
Heat Pump Thermostat	112(b)	Yes	Yes	Yes
Furnace Controls	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
Minimum Ventilation	121(b)	0 cfm	131 cfm	734 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	121(c), 122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	Heating Required	Heating Required	Heating Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Insulation	124	R-4.2	R-4.2	R-4.2
PRESCRIPTIVE MEASURES				
Calculated Heating Capacity x 1.43 2	144 (a & b)	n/a	n/a	n/a
Proposed Heating Capacity 2	144 (a & b)	29,485 btuh	272,845 btuh	221,134 btuh
Calculated Sensible Cooling Capacity x 1.21 2	144 (a & b)	n/a	n/a	n/a
Proposed Sensible Cooling Capacity 2	144 (a & b)	27,067 btuh	312,835 btuh	200,061 btuh
Fan Control	144 (c)	Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144 (c)			
Supply Pressure Reset (DDC only)	144 (c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144 (d)	No	No	No
Economizer	144 (e)	No Economizer	No Economizer	No Economizer
Heating Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Cooling Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Duct Sealing for Prescriptive Compliance 3	144 (k)	No	No	No

1: For each central and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.
2: Not required for hydronic heating and cooling. Either enter a value here or put in reference of plans and specifications per footnote 1.
3: Enter Yes if System is: Constant Volume, Single Zone; Serves < 5,000 sqft; Has > 25% duct in unconditioned space. Duct sealing is required for Prescriptive Compliance, see PERF-1 for performance method duct sealing requirements.

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Run Initiation Time: 04/05/06 17:46:34 Run Code: 1144284394
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AIR SYSTEM REQUIREMENTS — Part 1 of 2 — MECH-2-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

SYSTEM FEATURES

	T-24 Section	CU/FC-1	CU/FC-2	CU/FC-3
ITEM OR SYSTEM TAG(S)		CU/FC-1	CU/FC-2	CU/FC-3
Number of Systems		2	1	7
MANDATORY MEASURES		Reference on Plans or Specification 1		
Heating Equipment Efficiency	112(a)	8.00 HSPF	7.90 HSPF	8.10 HSPF
Cooling Equipment Efficiency	112(a)	13.0 SEER / 10.8 EER	13.0 SEER / 11.0 EER	13.0 SEER / 10.4 EER
Heat Pump Thermostat	112(b)	Yes	Yes	Yes
Furnace Controls	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
Minimum Ventilation	121(b)	65 cfm	430 cfm	0 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	121(c), 122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	No Setback Required	Heating Required	Heating Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Insulation	124	R-4.2	R-4.2	R-4.2
PRESCRIPTIVE MEASURES				
Calculated Heating Capacity x 1.43 2	144 (a & b)	n/a	n/a	n/a
Proposed Heating Capacity 2	144 (a & b)	29,485 btuh	19,443 btuh	171,993 btuh
Calculated Sensible Cooling Capacity x 1.21 2	144 (a & b)	n/a	n/a	n/a
Proposed Sensible Cooling Capacity 2	144 (a & b)	24,280 btuh	18,685 btuh	158,282 btuh
Fan Control	144 (c)	Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144 (c)			
Supply Pressure Reset (DDC only)	144 (c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144 (d)	No	No	No
Economizer	144 (e)	No Economizer	No Economizer	No Economizer
Heating Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Cooling Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Duct Sealing for Prescriptive Compliance 3	144 (k)	No	No	No

1: For each central and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.
2: Not required for hydronic heating and cooling. Either enter a value here or put in reference of plans and specifications per footnote 1.
3: Enter Yes if System is: Constant Volume, Single Zone; Serves < 5,000 sqft; Has > 25% duct in unconditioned space. Duct sealing is required for Prescriptive Compliance, see PERF-1 for performance method duct sealing requirements.

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WATER SIDE SYSTEM REQUIREMENTS — Part 2 of 2 — MECH-2-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

SYSTEM FEATURES

	T-24 Section	2 WATER SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops		
ITEM OR SYSTEM TAG(S)				
Number of Systems				
MANDATORY MEASURES		Reference on Plans or Specification 1		
Equipment Efficiency	112(a)			
Pipe Insulation	123			
PRESCRIPTIVE MEASURES				
Calculated Capacity	144 (a & b)			
Proposed Capacity	144 (a & b)			
Tower Fan Controls	144 (h)			
Tower Flow Controls	144 (h)			
Variable Flow System Design	144 (j)			
Chiller and Boiler Isolation	144 (j)			
CHW and HHW Reset Controls	144 (j)			
WLHP Isolation Valves	144 (j)			
VSD on CHW, CW & WLHP Pumps > 5 HP	144 (j)			
DP Sensor Location	144 (j)			

1: For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.
2: Water side systems include wet side system using other liquids such as glycol or brine.

	T-24 Section	Service Hot Water, Pool Heating		
ITEM OR SYSTEM TAG(S)		DHW Heater		
Number of Systems		1		
MANDATORY MEASURES		Reference on Plans or Specification 1		
Water Heater Certification	113 (a)	Raypak WI-1262-335		
Water Heater Efficiency	113 (b)	80%		
Service Water Heating Installation	113 (c)			
Pool and Spa Efficiency and Control	114 (a)	n/a		
Pool and Spa Installation	114 (b)	n/a		
Pool Heater - No Pilot Light	115 (c)	n/a		
Spa Heater - No Pilot Light	115 (d)	n/a		

1: For each water heater, pool heat and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" ins the colum.

NOTES TO FIELD - For Building Department Use Only

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MECHANICAL VENTILATION — MECH-3-C

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

MECHANICAL VENTILATION (Section 121(b)2)

	AREA BASIS			OCCUPANCY BASIS					PRESCRIPTIVE REHEAT LIMITATION (Section 144(d)) VAV MINIMUM				
A	B	C	D	E	F	G	H	I	J	K	L	M	N
ZONE/SYSTEM	Condition Area (SF)	CFM per Square Foot	Min CFM by Area (B x C)	Number of People	CFM per Person	Min CFM by Occupant (E x F)	REQ'D V.A Max of (D or G)	Design Vent. Air CFM	30% of Design Zone Supply CFM	B x 0.4 CFM/sq. ft.	Max of Columns H, J, K or 300 CFM	Design Min. Air Setpoint	Transfer Air
Unit A4 214	964	0.15	145				145	145					
Unit C 216	1,002	0.15	150				150	150					
Unit D 221	942	0.15	141				141	0					141
CU/FC-3						Total	1,307	734					
Lobby area Office	184	0.15	28				28	28					
Office 120	247	0.15	37				37	37					
CU/FC-1						Total	65	65					
Recreation Room 101	860	0.50	430				430	430					
Unit A2-1 102	853	0.15	128				128	0					128
Unit A3 103	876	0.15	131				131	0					131
Unit A2-1 104	853	0.15	128				128	0					128
Unit A7 106	829	0.15	124				124	0					124
Unit A1 107	774	0.15	116				116	0					116
Unit A1 108	774	0.15	116				116	0					116
Unit A3 111	876	0.15	131				131	0					131
Unit A3 113	876	0.15	131				131	0					131
Unit A3 115	876	0.15	131				131	0					131
Unit A3 117	876	0.15	131				131	0					131
Unit A1 118	774	0.15	116				116	0					116
Unit A1 119	774	0.15	116				116	0					116
Unit A5-1 122	832	0.15	125				125	0					125
Unit A6 123	856	0.15	128				128	0					128
CU/FC-2						Total	2,185	430					
Unit B-1 105	1,009	0.15	151				151	0					151
Unit C 109	1,002	0.15	150				150	0					150

C	Minimum ventilation rate per Section 121, Table 121-A
E	Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
H	Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on and AREA or OCCUPANCY BASIS (column D or G).
I	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply cfm (Fan CFM) x 30%; or
K	Condition area (ft. sq.) x 0.4 cfm/ft. sq.; or
L	Maximum of Columns H, J, K, or 300 cfm
M	This must be less than or equal to Column L and greater that or equal to the sum of Columns H + N.
N	Transfer air must be provided where the Required Ventilation Air (column H) is greater than the Design Minimum Air (column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (column H) and the Design Minimum Air (column M), column H - M.

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ENVELOPE MANDATORY MEASURES — ENV-MM

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

DESCRIPTION			Designer	Enforcement
☒	118(a)	Installed Insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20, Chapter 4, Article 3.		
☒	118(c)	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.		
☒	117(a)	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.		
☒	116(b)	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).		
☒	116(a)1	Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E. of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.		
☒	118(e)	Demising Walls in Nonresidential Buildings: The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.		

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MECHANICAL MANDATORY MEASURES — Part 1 of 2 — MECH-MM

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

DESCRIPTION			Designer	Enforcement
Equipment and Systems Efficiencies				
☒	111	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.		
☐	115(a)	Fan type central furnaces shall not have a pilot light.		
☒	123	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.		
☒	124	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.		
Controls				
	122(e)	Each space conditioning system shall be installed with one of the following:		
☒	122(e)1A	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or		
☐	122(e)1B	An occupancy sensor to control the operating period of the system; or		
☒	122(e)1C	A 4-hour timer that can be manually operated to control the operating period of the system.		
☒	122(e)2	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.		
☐	122(g)	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.		
☒	122(a&b)	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.		
☒	122(c)	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.		
☐	112(b)	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.		

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MECHANICAL MANDATORY MEASURES — Part 2 of 2 — MECH-MM

PROJECT NAME: Saticoy Apartments DATE: 4/5/2006

Description			Designer	Enforcement
Ventilation				
☒	121(e)	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.		
☐	122(f)	Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.		
☐	122(f)	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.		
☒	121(f)1	Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1984); or		
☐	121(f)2	Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licenced C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or		
☐	121(f)3	Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display divice; or		
☐	121(f)4	Another method approved by the Commission.		
Service Water Heating Systems				
☐	113(b)2	If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.		
☐	113(b)3B	Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F.		
☐	113(b)3C	Lavatories in restrooms of public facilities shall be equipped with one of the following: Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute. Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. Proximity sensor actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons/cycle (circulating system). Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons/cycle (non-circulating system). Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.75 gallons/cycle (foot switches and proximity sensor controls).		

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City of Los Angeles, Department of Building & Safety
APPROVED PLANS
- This perforated set of plans are not approval for construction until the required permit fees are paid and the permit is issued.
- The permit(s) is valid for two years from the date the permit fees are paid.
- Visit http://www.permitla.org/ipar/index.cfm to check the status of this set of plans by entering the 15 digits Permit number. "Issued" status means the permit fees have been paid.
- No inspection can be scheduled until the permit fees are paid.

BY: DATE: 3/20/2009
Permit No./: 08044 20000 - 12542
Application No.
- This set of plans MUST be at the job site during construction.
- It is unlawful to alter, change, or deviate from these plans.
- The stamping of this plan SHALL NOT be held to permit or to be an approval of the violation of any provisions of any Ordinance or Law.
- SEPARATE permits are required for BUILDING, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ELEVATOR, HEATING or REFRIGERATION work, unless this permit was issued as a combination permit for a One or Two Family Dwelling pursuant to LAMC Section 91.0107.2.2, and the work by that trade does not require Plan Check.

Department of Building & Safety, City of Los Angeles
Mechanical Plan Check
Plan Checked for:
Plumbing:
☐ Complete Plumbing ☐ Rain Water ☐ Irrigation
☐ Gas ☐ Portable Water ☐ Waste & Vent
☐ Methane Vent System ☐ Subsurface Drainage ☐ Pool/Spa
☐ Sump/Sewage Pump ☐ Other: ....
Fire Protection:
☐ Fire Sprinkler ☐ Standpipe ☐ Fire Pump ☐ Fire Tank
☐ Fire Hydrants ☐ Other: ....
HVAC:
☐ Hoods ☒ Ventilation ☒ Comfort Heating/Cooling
☐ Smoke Control ☐ Energy Conservation
☐ Other: ....
Elevator:
☐ Hydraulic ☐ Residential ☐ Cable ☐ Escalator
☐ Other: ....
Installation in the City of Los Angeles subject to the requirements of Article 4 (Plumbing), Article 5 (HVAC) and Article 2 (Elevator) of Chapter 9 of Los Angeles Municipal Code

GILBERT DILANCHIAN No. M31157 Expires 12/31/09
03/20/09

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CONSULTANT

CLIENT

Saticoy Realty Investments, LLC
LOS ANGELES, CALIFORNIA

PROJECT

APARTMENT BUILDING
20223-20237 W. SATICOY STREET
WINNETKA, CALIFORNIA

DRAWING TITLE

TITLE 24

REVISION

STAMP

H. CYRUS JALALI No.C22382 Ren. 5-31-09

DAVAR & ASSOC.
CONSULTING ENGINEERS
12016 Telegraph Road, Suite 205
Santa Fe Springs, California 90670
Tel: (562) 777-8050 Fax: (562) 777-0933

DATA

DATE: 07-20-2006
DRAWN BY: RM
J&G NO. 030703
SCALE: AS NOTED
SHEET

M-0.1

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