

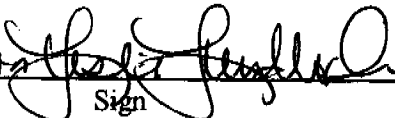
CITY OF SACRAMENTO

30 DAY TEMPORARY
Certificate of Occupancy

For Information Contact (916) 264-5716

Building Address: 20 BICENTENNIAL CR Permit No.: 0413856
Building Use: OFFICE Occupancy: B
Building Owner: DREYER, BABICH, BUCCOLA & CALLAHAM Construction Type: _____
Owner Address: SACRAMENTO, CA Sprinkled? Yes No
Portion of Building Occupied: ENTIRE Area: 40,000 Sq. Ft.

Specific purpose for temporary occupancy and/or conditions/limitations of temporary occupancy:

3/8/05 USUIE LUNDHOLM  RON BEEHLER
Date By: (Print) Sign CHIEF BUILDING OFFICIAL

[TCO approvals:PWC,RH,CDY,AW]

CBC 109.4 TEMPORARY CERTIFICATE

If the Chief Building Official finds that no substantial hazard will result from occupancy of any building or portion thereof before the same is completed, a temporary Certificate of Occupancy may be issued for the use of a portion or portions of a building or structure prior to the completion for the entire building or structure.

POST IN A CONSPICUOUS PLACE

Microfilm

**AIR BALANCE
REPORT**

By

Clarke & Rush Mechanical

License # 608005

April 11, 2005

Project:

**Dreyer, Babich, Buccola and Callaham
20 Bicentennial Circle
Sacramento, CA**

Air Balance Report

GENERAL DATA:

ID:	A/C #2	PROJECT #:	4Q5094
LOCATION:	Rooftop	PROJECT NAME:	Bicentennial
SERVICE:	1F Western Interior		
MANUFACTURER:		UNIT AIR CAPACITY:	Nominal 3000 CFM
MODEL#:		SERIAL#	

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Stairwell	SD-8	14		815	34.0	918	(2.1)	759	(1.3)	770	826	33.6	1.3
2	Storage	SD-3	10		310	12.9	223	(42.8)	275	(5.7)	293	298	12.1	(3.9)
3	Office	SD-4	10		375	15.6	45	(102.8)	320	(9.1)	354	368	15.0	(1.9)
4	Office	SD-2	10		235	9.8	417	62.7	228	2.6	222	243	9.9	3.4
5	Hallway	SD-1	8		140	5.8	59	(72.6)	163	22.0	132	149	6.1	6.4
6	Hallway	SD-1	8		140	5.8	231	50.3	143	7.7	132	152	6.2	8.6
7	Closet	SD-6	6		25	1.0	71	169.3	64	161.5	24	32	1.3	28.0
8	Toilet	SD-6	6		25	1.0	45	65.3	39	61.5	24	33	1.3	32.0
9	Toilet	SD-6	6		25	1.0	192	653.3	48	97.5	24	32	1.3	28.0
10	Hallway	SD-3	10		310	12.9	553	63.6	228	(20.9)	293	325	13.2	4.8
Totals:					2400		2754	14.8	2267	(5.5)	2268	2458		2.4

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1			12		495	36.0	473	3.5	500	1.2	500	500	20.3	1.0
R-2			8		250	18.2	241	4.3	248	-0.6	253	248	10.1	(0.8)
R-3			8		250	18.2	252	8.7	251	0.6	248	254	10.3	1.6
R-4			8		250	18.2	225	-2.1	249	-0.2	249	249	10.1	(0.4)
R-5			6		130	9.5	75	-34.4	124	-4.4	132	130	5.3	0.0
Totals:					1375		1266	(7.9)	1372	(0.2)	1382	1381		0.4

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2400	2458	2.4%						Return:	-0.12	
	Total Return:	1375	1381		0.4%	Amperage:				Total:	0.62
	Outdoor Air:	1025	1077		5.1%	RPM				Filter PD:	0.23

NOTES:

Technician: Dan Pinkham

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID: A/C #3 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: 1F SW. Corner TI Space
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 3000 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Open Office	SD-2	8		250	8.3	304	31.9	293	19.3	249	246	8.3	(1.6)
2	Open Office	SD-2	8		250	8.3	268	17.5	251	2.5	251	250	8.4	0.0
3	Open Office	SD-2	8		250	8.3	140	(33.7)	211	(13.5)	248	241	8.1	(3.6)
4	Open Office	SD-2	8		250	8.3	145	(31.7)	254	3.7	255	255	8.6	2.0
5	Open Office	SD-2	8		250	8.3	145	(31.7)	245	0.1	250	252	8.5	0.8
6	Open Office	SD-2	8		250	8.3	132	(36.9)	313	27.3	247	248	8.3	(0.8)
7	Open Office	SD-2	8		250	8.3	174	(20.1)	233	(4.7)	247	250	8.4	0.0
8	Open Office	SD-2	8		250	8.3	150	(29.7)	253	3.3	251	250	8.4	0.0
9	Open Office	SD-2	8		250	8.3	260	14.3	310	26.1	253	251	8.4	0.4
10	Open Office	SD-2	8		250	8.3	318	37.5	287	16.9	250	246	8.3	(1.6)
11	Open Office	SD-2	8		250	8.3	396	68.7	177	(27.1)	250	239	8.0	(4.4)
12	Open Office	SD-2	8		250	8.3	258	13.5	109	(54.3)	246	253	8.5	1.2
Totals:					3000		2690	(10.3)	2936	(2.1)	2997	2981		(0.6)

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Open Office	RG-7	22x46		2950	100.0	2760	93.6	2760	93.6	2898	2930	98.3	(0.7)
Totals:					2950		2760	(6.4)	2760	(6.4)	2898	2930		(0.7)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	3000	2981	-0.6%		Amperage:				Return:	-0.12
	Total Return:	2950	2930		-0.7%	RPM			Total:	0.62
	Outdoor Air:	50	51		2.0%				Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #4</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>1F Lunch and File Rooms</u>	UNIT AIR CAPACITY:	<u>Nominal 2400 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Lunch room	SD-4	12		455	19.0	316	6.8	370	7.2	431	442	18.7	(2.9)
2	Lunch room	SD-4	12		455	19.0	307	4.8	353	3.5	442	445	18.8	(2.2)
3	Kitchen	SD-4	12		360	15.0	368	39.6	438	47.5	333	368	15.6	2.2
4	Hallway	SD-1	6		140	5.8	55	(23.3)	64	(28.4)	137	137	5.8	(2.1)
5	Office	SD-2	8		240	10.0	126	(10.1)	180	0.9	222	232	9.8	(3.3)
6	Office	SD-2	8		240	10.0	118	(13.5)	123	(22.9)	231	237	10.0	(1.3)
7	Office	SD-2	8		240	10.0	111	(16.4)	55	(51.2)	235	237	10.0	(1.3)
8	Office	SD-2	8		240	10.0	43	(44.7)	118	(25.0)	237	233	9.9	(2.9)
9	Shower Area	SD-6	6		30	1.3	59	134.0	78	185.9	33	32	1.4	6.7
Totals:					2400		1503	(37.4)	1779	(25.9)	2301	2363		(1.5)

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Lunch Room	RG-5	14		910	40.8	490	(10.3)	635	(9.1)	821	900	38.1	(1.1)
R-2	Kitchen	RG-4	12		360	16.1	385	42.8	402	32.8	372	354	15.0	(1.7)
R-3	File Room	RG-7	16		960	43.0	555	-6.3	722	-3.7	945	927	39.2	(3.4)
Totals:					2230		1430	(35.9)	1759	(21.1)	2138	2181		(2.2)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	2400	2363	-1.5%						Return:	-0.12
	Total Return:	2230	2181		-2.2%	Amperage:				Total:
Outdoor Air:	170	182	7.1%	RPM				Filter PD:	0.23	

NOTES:

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #5</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>1F SE Offices</u>	UNIT AIR CAPACITY:	<u>Nominal 2400 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Stairwell	SD-8	14		855	36.1	985	(9.4)	935	(1.0)	943	876	35.9	2.5
2	Office	VD-5	14		685	28.9	760	(13.6)	750	(0.8)	756	696	28.5	1.6
3	Office	VD-3	10		415	17.5	705	45.3	480	5.3	458	439	18.0	5.8
4	Office	VD-3	10		415	17.5	502	(3.6)	450	(1.9)	458	428	17.5	3.1
Totals:					2370		2952	24.6	2615	10.3	2615	2439		2.9

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Stairwell	RG-10	14		855	43.7	984	30.8	723	(4.4)	752	872	35.8	2.0
R-2	Office	RG-5	14		685	35.0	338	-35.0	664	8.0	603	702	28.8	2.5
R-3	Office	RG-3	10		415	21.2	326	-5.7	352	-4.1	365	435	17.8	4.8
R-4	Office	RG-3	10		415	21.2	697	83.7	356	-3.2	365	410	16.8	(1.2)
Totals:					1955		1648	(15.7)	1739	(11.0)	1720	2009		2.8

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2370	2439	2.9%						Return:	-0.12	
	Total Return:	1955	2009		2.8%	Amperage:				Total:	0.62
	Outdoor Air:	415	430		3.6%	RPM				Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #6</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>1F E Offices</u>	UNIT AIR CAPACITY:	<u>Nominal 2800 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Offices	VD-4	12		495	17.7	426	1.2	503	3.8	484	507	19.0	2.4
2	Office	VD-3	10		420	15.0	405	11.6	485	17.7	411	446	16.7	6.2
3	Office	VD-3	10		410	14.6	450	24.9	510	26.6	401	397	14.9	(3.2)
4	Office	VD-4	12		455	16.3	325	(13.4)	395	(11.0)	445	405	15.2	(11.0)
5	Office	VD-4	12		450	16.1	318	(14.2)	358	(18.3)	440	397	14.9	(11.8)
6	Office	VD-5	12		570	20.4	451	(5.7)	488	(12.2)	558	521	19.5	(8.6)
Totals:					2800		2375	(15.2)	2739	(2.2)	2739	2673		(4.5)

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Office	RG-4	12		495	19.0	272	(10.3)	186	(41.4)	363	461	17.2	(6.9)
R-2	Office	RG-3	10		420	16.2	69	-48.8	372	9.6	308	374	14.0	(11.0)
R-3	Office	RG-3	10		410	15.8	448	44.0	359	8.6	301	417	15.6	1.7
R-4	Office	RG-4	12		455	17.5	410	24.8	309	-11.1	334	436	16.3	(4.2)
R-5	Office	RG-4	12		450	17.3	440	32.5	339	-3.7	330	407	15.2	(9.6)
R-6	Office	RG-5	12		370	14.2	58	-49.6	489	53.2	418	370	13.8	0.0
Totals:					2600		1697	(34.7)	2054	(21.0)	2054	2465		(5.2)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2800	2673	-4.5%						Return:	-0.12	
	Total Return:	2600	2465		-5.2%	Amperage:				Total:	0.62
	Outdoor Air:	200	208		4.0%	RPM				Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #7</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>2F E Perim. Offices</u>	UNIT AIR CAPACITY:	<u>Nominal 3600 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Corner office	VD-4	12		425	11.8	553	16.3	516	11.7	466	465	12.1	9.4
2	Corner Office	VD-4	12		425	11.8	508	5.8	467	0.2	466	466	12.2	9.6
3	Office	VD-5	14		610	16.9	568	(20.7)	573	(15.7)	669	613	16.0	0.5
4	Office	VD-4	12		435	12.1	592	22.3	563	19.8	477	459	12.0	5.5
5	Office	VD-4	12		435	12.1	434	(14.0)	422	(12.7)	477	457	11.9	5.1
6	Office	VD-4	12		430	11.9	454	(8.2)	437	(8.0)	472	453	11.8	5.3
7	Office	VD-4	12		420	11.7	505	6.5	496	8.4	461	455	11.9	8.3
8	Office	VD-4	12		420	11.7	482	1.0	474	3.2	461	460	12.0	9.5
Totals:					3600		4096	13.8	3948	9.7	3949	3828		6.3

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Corner Office	RG-5	14		800	24.6	72	(89.0)	441	(43.5)	757	875	22.9	9.4
R-2	Office	RG-5	14		570	17.5	704	25.5	541	-3.7	543	601	15.7	5.4
R-3	Office	RG-4	12		335	10.3	416	26.1	349	5.6	387	342	8.9	2.1
R-4	Office	RG-4	12		465	14.3	116	-73.1	101	-76.9	387	425	11.1	(8.6)
R-5	Office	RG-4	12		430	13.2	978	129.4	849	98.8	383	467	12.2	8.6
R-6	Office	RG-5	14		650	20.0	900	40.4	924	43.5	748	735	19.2	13.1
Totals:					3250		3186	(2.0)	3205	(1.4)	3205	3445		6.0

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	3600	3828	6.3%						Return:	-0.12	
	Total Return:	3250	3445		6.0%	Amperage:				Total:	0.62
	Outdoor Air:	350	383		9.4%	RPM				Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #8</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>1F NE Corner Office</u>	UNIT AIR CAPACITY:	<u>Nominal 1700 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Office	VD-3	10		340	20.0	424	14.9	332	10.1	298	342	20.8	0.6
2	Corner Office	LD-3	4X10	4X304	1215	71.5	1210	(10.2)	1024	(3.2)	1063	1166	70.9	(4.0)
3	Closet	VD-1	6		120	7.1	100	(26.5)	91	(11.7)	105	110	6.7	(8.3)
4	Toilet	SD-6	6		25	1.5	133	422.2	41	76.5	27	27	1.6	8.0
Totals:					1700		1867	9.8	1488	(12.5)	1493	1645		(3.2)

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	office	RG-3	10		340	22.8	447	32.9	288	(0.2)	257	308	18.7	(9.4)
R-2	Corner Office	LR-3	4x10	4x304	1040	69.8	923	-9.8	863	-1.9	918	1006	61.2	(3.3)
R-3	Closet	RG-1	6		110	7.4	98	-9.4	114	18.7	91	117	7.1	6.4
Totals:					1490		1468	(1.5)	1265	(15.1)	1266	1431		(4.0)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50					
	1700	1645	-3.2%		Amperage:					Return:	-0.12			
	Total Return:	1490	1431			-4.0%	RPM						Total:	0.62
	Outdoor Air:	210	214			1.9%								Filter PD:

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID: A/C #9 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: Entrance Lobby
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 2400 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Office	VD-4	12		570	23.8	530	(5.4)	540	0.9	561	570	23.2	0.0
2	Lobby	LD-2	3x8		540	22.5	549	3.3	535	5.3	531	573	23.3	6.1
3	Lobby	LD-2	3x8		540	22.5	479	(9.7)	491	(2.9)	531	583	23.7	8.0
4	Lobby	LD-2	3x8		540	22.5	450	(15.1)	427	(14.7)	531	522	21.2	(3.3)
5	Coffee Room	SD-6	6		60	2.5	116	94.9	75	31.2	60	63	2.6	5.0
6	Telephone Closet	SD-6	6		60	2.5	113	89.9	92	59.5	59	61	2.5	1.7
7	Closet	SD-6	6		40	1.7	25	(35.9)	35	(6.3)	39	39	1.6	(2.5)
8	Men's Toilet	SD-6	6		25	1.0	78	213.6	31	30.2	25	26	1.1	4.0
9	Women's Toilet	SD-6	6		25	1.0	22	(10.4)	25	6.2	25	25	1.0	0.0

Totals:					2400		2362	(1.6)	2251	(6.2)	2362	2462		2.6
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Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Office	RG-4	12		570	28.5	454	(1.2)	481	(0.2)	384	630	25.6	10.5
R-2	Lobby	RG-7	22x46		1430	71.5	1163	0.5	1210	0.1	1233	1415	57.5	(1.0)
Totals:					2000		1617	(19.2)	1691	(15.5)	1617	2045		2.3

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2400	2462	2.6%						Return:	-0.12	
	Total Return:	2000	2045		2.3%	Amperage:				Total:	0.62
	Outdoor Air:	400	417		4.3%	RPM				Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #10</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>1F NE Interior</u>	UNIT AIR CAPACITY:	<u>Nominal 2400 CFM</u>
MANUFACTURER:	_____	SERIAL#	_____
MODEL#:	_____		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Open Office	SD-2	8		220	9.2	147	(33.1)	361	60.8	209	204	8.5	(7.3)
2	Open Office	SD-2	8		220	9.2	139	(36.7)	147	(36.4)	209	201	8.3	(8.6)
3	Open Office	SD-2	8		220	9.2	207	(5.8)	224	(1.4)	209	226	9.4	2.7
4	Open Office	SD-2	8		220	9.2	169	(23.1)	182	(20.5)	209	204	8.5	(7.3)
5	Open Office	SD-2	8		220	9.2	202	(8.1)	218	(4.2)	209	230	9.5	4.5
6	Open Office	SD-2	8		220	9.2	207	(5.8)	234	3.1	209	219	9.1	(0.5)
7	Open Office	SD-2	8		220	9.2	199	(9.4)	226	(0.5)	209	233	9.7	5.9
8	Open Office	SD-2	8		220	9.2	238	8.3	260	14.9	209	227	9.4	3.2
9	Main Stairway	SD-6	6		60	2.5	59	(1.5)	59	(4.9)	57	60	2.5	0.0
10	Main Stairway	SD-6	6		60	2.5	59	(1.5)	61	(1.6)	57	63	2.6	5.0
11	Conference Room	LD-2	3x8		520	21.7	771	48.4	506	(5.9)	494	544	22.6	4.6
Totals:					2400		2397	(0.1)	2478	3.3	2280	2411		0.5

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Open Office	RG-8	22x22		1660	76.3	1298	13.6	1155	(6.8)	1283	1640	68.0	(1.2)
R-2	Conference Room	LR-2	3x8		515	23.7	106	-44.0	507	22.0	379	552	22.9	7.2
Totals:					2175		1404	(35.4)	1662	(23.6)	1662	2192		0.8

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2400	2411	0.5%		Amperage:					Return:	-0.12
	2175	2192	0.8%			RPM					Total:
Total Return:	225	219	-2.7%					Filter PD:	0.23		

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	A/C #11	PROJECT #:	4Q5094
LOCATION:	Rooftop	PROJECT NAME:	Bicentennial
SERVICE:	1F SE Interior	UNIT AIR CAPACITY:	Nominal 2400 CFM
MANUFACTURER:		SERIAL#	
MODEL#:			

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Open Office	SD-2	8		200	8.7	268	(19.3)	185	(21.3)	228	198	8.2	(1.0)
2	Open Office	SD-2	8		200	8.7	244	(31.3)	194	(16.8)	228	214	8.9	7.0
3	Open Office	SD-2	8		200	8.7	246	(30.3)	201	(13.3)	228	214	8.9	7.0
4	Open Office	SD-2	8		200	8.7	321	7.2	252	12.2	228	216	8.9	8.0
5	Open Office	SD-2	8		200	8.7	361	27.2	280	26.2	228	212	8.8	6.0
6	Open Office	SD-2	8		200	8.7	313	3.2	226	(0.8)	228	205	8.5	2.5
7	Open Office	SD-2	8		200	8.7	257	(24.8)	183	(22.3)	228	210	8.7	5.0
8	Open Office	SD-2	8		200	8.7	341	17.2	260	16.2	228	211	8.7	5.5
9	Open Office	SD-2	8		200	8.7	307	0.2	224	(1.8)	228	219	9.1	9.5
10	Office	SD-1	6		85	3.7	150	23.1	112	18.0	97	92	3.8	8.2
11	Office	VD-1	6		50	2.2	132	110.7	90	66.2	57	48	2.0	(4.0)
12	Office	VD-1	8		220	9.6	357	8.9	248	(1.1)	250	228	9.4	3.6
13	Closet	SD-1	4		25	1.1	77	154.7	52	94.2	28	27	1.1	8.0
14	Toilet	SD-6	4		60	2.6	74	(30.0)	46	(37.1)	68	61	2.5	1.7
15	Toilet	SD-6	4		60	2.6	79	(21.7)	64	(7.1)	68	61	2.5	1.7

Totals: 2300 3527 53.3 2617 13.8 2620 2416 5.0

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Open Office	RG-8	22x22		1700	84.0	1960	(3.3)	1794	(1.3)	1808	1780	73.7	4.7
R-2	Office	RG-1	6		75	3.7	109	26.8	94	18.5	85	85	3.5	13.3
R-3	Office	RG-1	6		50	2.5	129	139.4	108	109.1	50	48	2.0	(4.0)
R-4	Office	RG-2	8		200	9.9	203	-17.1	168	-22.9	221	210	8.7	5.0
Totals:					2025		2401	18.6	2164	6.9	2164	2123		4.8

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	2300	2416	5.0%					Return:	-0.12	
	Total Return:	2025	2123		4.8%	Amperage:			Total:	0.62
	Outdoor Air:	275	293		6.5%	RPM			Filter PD:	0.23

NOTES:

Air Balance Report

GENERAL DATA:

ID: A/C #12 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: N Conference
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 2900 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Corner Office	SD-2	8		266	9.2	270	3.9	264	11.1	264	264	9.2	(0.8)
2	Corner Office	SD-2	8		266	9.2	263	1.3	254	7.3	262	265	9.2	(0.4)
3	Corner Office	SD-2	8		266	9.2	258	(0.6)	245	3.9	251	267	9.3	0.4
4	Corner Office	SD-2	8		266	9.2	300	15.2	271	13.7	263	265	9.2	(0.4)
5	Corner Office	SD-2	8		266	9.2	271	4.3	275	15.2	278	265	9.2	(0.4)
6	Office	SD-2	10		360	12.4	374	6.3	381	17.7	365	358	12.5	(0.6)
7	Office	SD-2	12		460	15.9	375	(16.1)	325	(17.5)	381	450	15.7	(2.2)
8	Conference Room	SD-2	8		250	8.6	305	24.4	175	(18.2)	210	248	8.6	(0.8)
9	Conference Room	SD-6	8		250	8.6	183	(24.4)	172	(19.4)	221	248	8.6	(0.8)
10	Conference Room	SD-6	8		250	8.6	232	(4.8)	195	(10.2)	210	245	8.5	(2.0)

Totals: 2900 2831 (2.4) 2557 (11.8) 2705 2875 (0.9)

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Corner Office	R-1	5x8LF		1320	46.5	1145	0.9	928	(8.0)	1285	1250	43.5	(5.3)
R-2	Office	R-2	10		350	12.3	180	-34.4	235	-11.2	267	356	12.4	1.7
R-3	Office	R-3	12		420	14.8	372	2.8	341	2.8	410	435	15.1	3.6
R-4	Conference Room	R-4	3x8LF		750	26.4	740	12.9	721	17.8	740	780	27.1	4.0

Totals: 2840 2437 (14.2) 2225 (21.7) 2702 2821 (0.7)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50			
	2900	2875	-0.9%		Amperage:					Return:	-0.12	
	Total Return:	2840	2821		-0.7%	RPM					Total:	0.62
	Outdoor Air:	60	54		-10.0%						Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID: A/C #13 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: 2F W. Perimeter Offices
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 3900 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register ID	Location	Code	Size	Misc	Design		Test 1		Test2		Final			
					Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Office	VD-3	10		395	10.1	385	(5.7)	404	4.2	388	404	10.2	2.3
2	Office	VD-3	10		395	10.1	451	11.0	390	0.6	388	390	9.9	(1.3)
3	Office	VD-5	14		590	15.1	656	8.0	621	7.2	579	621	15.7	5.3
4	Office	SD-4	10		395	10.1	322	(21.7)	330	(14.6)	388	367	9.3	(7.1)
5	Office	SD-4	10		395	10.1	274	(33.8)	271	(29.5)	388	391	9.9	(1.0)
6	Office	VD-3	10		395	10.1	678	68.5	395	1.9	388	395	10.0	0.0
7	Office	VD-3	10		395	10.1	83	(82.2)	420	8.2	388	412	10.4	4.3
8	Office	VD-3	10		395	10.1	193	(54.3)	427	10.0	388	413	10.5	4.6
9	Office	VD-3	10		395	10.1	674	67.5	419	8.0	388	407	10.3	3.0
10	Toilet	SD-6	6		25	0.6	160	536.8	27	9.9	25	25	0.6	0.0
11	Closet	VD-1	6		125	3.2	148	15.2	122	(0.5)	123	122	3.1	(2.4)

Totals: 3900 4024 3.2 3826 (1.9) 3831 3947 1.2

Register ID	Location	Code	Size	Misc	Design		Test 1		Test2		Final			
					Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Office	RG-5	14		740	20.3	352	(31.8)	460	(36.3)	733	733	18.6	(0.9)
R-2	Office	RG-5	14		545	14.9	467	6.3	500	-6.8	547	590	14.9	8.3
R-3	Office	RG-5	14		750	20.5	633	5.0	900	21.5	733	740	18.7	(1.3)
R-4	Office	RG-5	14		750	20.5	536	-7.9	835	12.8	733	750	19.0	0.0
R-5	Office	RG-5	14		750	20.5	840	32.6	780	5.5	733	760	19.3	1.3
R-6	Closet	RG-1	6		115	3.2	69	-19.4	120	5.9	116	122	3.1	6.1

Totals: 3650 2897 (20.6) 3595 (1.5) 3595 3695 1.2

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	3900	3947	1.2%		Amperage:				Return:	-0.12
	Total Return:	3650	3695		1.2%	RPM				Total:
Outdoor Air:	250	252	0.8%					Filter PD:	0.23	

NOTES:

Air Balance Report

GENERAL DATA:

ID: A/C #14 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: 2F SW. Perimeter Offices
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 2400 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Office	VD-3	10		325	13.5	420	22.7	292	0.3	291	319	13.6	(1.8)
2	Office	VD-3	8		365	15.2	402	3.6	344	4.7	327	363	15.5	(0.5)
3	Office	VD-5	10		365	15.2	404	4.2	337	2.7	327	365	15.5	0.0
4	Office	VD-2	8		265	11.0	317	13.1	237	(0.1)	237	253	10.8	(4.5)
5	Corner Office	SD-5	14		540	22.5	557	(3.4)	471	(2.4)	484	524	22.3	(3.0)
6	Corner Office	SD-5	14		540	22.5	456	(22.1)	469	(2.7)	484	524	22.3	(3.0)

Totals: 2400 2556 6.5 2150 (10.4) 2150 2348 (2.2)

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Office	RG-3	10		325	14.0	147	(7.7)	246	(14.7)	284	310	13.2	(4.6)
R-2	Office	RG-3	10		365	15.7	286	25.5	296	-9.3	319	342	14.6	(6.3)
R-3	Office	RG-3	10		365	15.7	222	7.9	294	-9.8	319	351	14.9	(3.8)
R-4	Office	RG-2	8		265	11.4	161	7.9	181	-22.1	232	241	10.3	(9.1)
R-5	Corner Office	RG-6	16		1000	43.1	411	-11.8	1080	17.6	944	1021	43.5	2.1
Totals:					2320		1227	(47.1)	2097	(9.6)	2098	2265		(2.4)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	2400	2348	-2.2%					Return:	-0.12	
	Total Return:	2320	2265		-2.4%	Amperage:			Total:	0.62
	Outdoor Air:	80	83		3.8%	RPM			Filter PD:	0.23

NOTES:

Technician: Brian Gillam DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID: A/C #15 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: 2F SE. Perimeter Offices
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 2000 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Corner Office	SD-3	10		325	16.3	456	36.0	364	9.9	332	319	16.0	(1.8)
2	Corner Office	SD-3	10		325	16.3	484	44.6	394	19.1	332	322	16.2	(0.9)
3	Office	VD-2	8		170	8.5	216	22.8	163	(6.2)	174	168	8.4	(1.2)
4	Office	VD-2	8		250	12.5	333	28.9	254	(0.5)	255	257	12.9	2.8
5	Office	VD-2	8		270	13.5	298	6.1	249	(9.9)	276	268	13.5	(0.7)
6	Office	VD-2	8		270	13.5	190	(33.9)	258	(6.5)	276	271	13.6	0.4
7	Office	VD-4	12		390	19.5	109	(76.4)	360	(9.8)	398	386	19.4	(1.0)

Totals:					2000		2086	4.3	2042	2.1	2043	1991		(0.4)
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Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Corner Office	RG-4	12		550	30.3	369	(20.5)	420	(17.7)	555	515	25.9	(6.4)
R-2	Office	RG-2	8		170	9.4	148	-0.5	166	3.5	145	170	8.5	0.0
R-3	Office	RG-2	8		235	12.9	208	0.9	234	5.5	214	234	11.8	(0.4)
R-4	Office	RG-3	8		470	25.9	231	-38.5	267	-37.3	461	498	25.0	6.0
R-5	Office	RG-4	12		390	21.5	634	75.0	621	65.1	333	385	19.3	(1.3)
Totals:					1815		1590	(12.4)	1708	(5.9)	1708	1802		(0.7)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2000	1991	-0.4%						Return:	-0.12	
	Total Return:	1815	1802		-0.7%	Amperage:				Total:	0.62
	Outdoor Air:	185	189		2.2%	RPM				Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #16</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>NE Conference</u>	UNIT AIR CAPACITY:	<u>Nominal 1400 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Office		12		495	35.4	473	1.7	465	(0.1)	433	500	35.8	1.0
2	Large office		8		250	17.9	241	2.5	241	2.3	241	248	17.7	(0.8)
3	Large office		8		250	17.9	252	6.9	236	0.3	238	251	18.0	0.4
4	Large office		8		250	17.9	225	(3.9)	231	(1.7)	232	249	17.8	(0.4)
5	Storage		6		130	75.0	113	(6.9)	124	1.3	125	125	8.9	(3.8)
6	Toilet		6		25	1.8	10	(53.9)	20	(14.1)	20	25	1.8	0.0

Totals:	1400	1314	(6.1)	1317	(5.9)	1289	1398	(0.1)
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Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	office		12		455	34.1	473	5.8	451	2.5	425	465	33.3	2.2
R-2	Large office		8		250	18.7	241	-1.7	241	-0.2	247	248	17.7	(0.8)
R-3	Large office		8		250	18.7	252	2.7	247	2.2	238	246	17.6	(1.6)
R-4	Large office		8		250	18.7	252	2.7	247	2.2	237	245	17.5	(2.0)
R-5	Storage		6		130	9.7	92	-27.4	104	-16.6	107	127	9.1	(2.3)
Totals:					1335		1310	(1.9)	1290	(3.4)	1254	1331		(0.3)

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	1400	1398	-0.1%					Return:	-0.12	
	Total Return:	1335	1331		-0.3%	Amperage:			Total:	0.62
	Outdoor Air:	65	67		3.1%	RPM			Filter PD:	0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #17</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>2F N. Interior</u>	UNIT AIR CAPACITY:	<u>Nominal 2400 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Hallway	SD-1	6		165	6.9	136	(44.2)	124	(28.3)	170	157	6.6	(4.8)
2	Vestbule	SD-4	12		425	17.7	428	(25.9)	426	(3.3)	439	416	17.5	(2.1)
3	Vestibule	SD-4	12		425	17.7	718	42.4	450	2.4	439	394	16.5	(7.3)
4	Closet	SD-1	6		25	1.0	131	397.4	45	76.5	26	27	1.1	8.0
5	Closet	SD-1	6		25	1.0	99	269.4	31	20.5	26	26	1.1	4.0
6	Elevator Lobby	SD-4	12		425	17.7	262	(64.9)	440	0.0	439	417	17.5	(1.9)
7	Toilet	SD-6	6		25	1.0	99	269.4	39	52.5	26	26	1.1	4.0
8	Hallway	SD-2	8		230	9.6	249	(18.3)	264	11.3	237	249	10.4	8.3
9	Hallway	SD-2	8		230	9.6	214	(33.5)	231	(3.1)	237	232	9.7	0.9
10	Vestibule	SD-4	12		425	17.7	702	38.6	434	(1.4)	439	439	18.4	3.3

Totals:					2400		3038	26.6	2484	3.5	2478	2383		(0.7)
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Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Vestibule	RG-8	22x22		2320	100.0	2350	1.3	2300	0.0	2300	2300	96.5	(0.9)
Totals:					2320		2350	1.3	2300	(0.9)	2300	2300		(0.9)

SUMMARY:

Total Supply: Total Return: Outdoor Air:	Design	Tested	Deviation	Voltage: Amperage: RPM	L1	L2	L3	Supply: Return: Total: Filter PD:	0.50
	2400	2383	-0.7%						-0.12
	2320	2300	-0.9%						0.62
	80	83	3.8%						0.23

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID: A/C #18 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: 2F W. Interior
 MANUFACTURER: _____ UNIT AIR CAPACITY: Nominal 2400 CFM
 MODEL#: _____ SERIAL#: _____

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Open Office	SD-3	10		250	10.4	244	(13.9)	246	(9.6)	270	261	10.5	4.4
2	Open Office	SD-3	10		250	10.4	261	(7.1)	289	7.6	270	255	10.3	2.0
3	Open Office	SD-3	10		250	10.4	199	(31.9)	221	(19.6)	270	254	10.2	1.6
4	Open Office	SD-3	10		250	10.4	206	(29.1)	223	(18.8)	270	261	10.5	4.4
5	Open Office	SD-3	10		250	10.4	258	(8.3)	282	4.8	270	256	10.3	2.4
6	Open Office	SD-3	10		250	10.4	282	1.3	299	11.6	270	260	10.5	4.0
7	Open Office	SD-3	10		250	10.4	275	(1.5)	325	22.0	270	257	10.4	2.8
8	Open Office	SD-3	10		250	10.4	387	43.3	301	12.4	270	253	10.2	1.2
9	Copy Room	SD-2	8		225	9.4	232	(8.4)	231	(5.3)	243	244	9.8	8.4
10	Closet	SD-1	6		25	1.0	77	196.5	28	4.0	27	26	1.0	4.0
11	Men's Restroom	SD-6	6		75	3.1	132	64.5	71	(13.3)	81	76	3.1	1.3
12	Women's Restroom	SD-6	6		75	3.1	123	52.5	76	(6.7)	81	80	3.2	6.7
Totals:					2400		2676	11.5	2592	8.0	2592	2483		3.5

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Open Office	RG-8	22x22		1780	90.4	1872	1.7	1820	1.2	1802	1820	73.3	2.2
R-2	Copy Room	RG-2	8		190	9.6	167	(15.6)	170	(11.5)	189	206	8.3	8.4
Totals:					1970		2039	3.5	1990	1.0	1991	2026		2.8

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2400	2483	3.5%		Amperage:					Return:	-0.12
	Total Return:	1970	2026			2.8%	RPM				Total:
Outdoor Air:	430	457	6.3%	Filter PD:		0.23					

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #19</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>2F S. Interior</u>	UNIT AIR CAPACITY:	<u>Nominal 3000 CFM</u>
MANUFACTURER:	_____	SERIAL#:	_____
MODEL#:	_____		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Open Office	SD-2	8		215	7.1	338	39.3	290	31.6	222	225	7.2	4.7
2	Open Office	SD-2	8		215	7.1	230	(10.9)	191	(14.5)	222	229	7.3	6.5
3	Open Office	SD-2	8		215	7.1	310	26.3	273	23.7	222	219	7.0	1.9
4	Open Office	SD-2	8		215	7.1	203	(23.5)	184	(17.7)	222	229	7.3	6.5
5	Open Office	SD-2	8		215	7.1	155	(45.8)	146	(35.4)	222	209	6.7	(2.8)
6	Open Office	SD-2	8		215	7.1	208	(21.1)	185	(17.2)	222	216	6.9	0.5
7	Open Office	SD-2	8		215	7.1	273	9.1	220	(1.0)	222	209	6.7	(2.8)
8	Open Office	SD-2	8		215	7.1	279	11.9	251	13.5	222	227	7.3	5.6
9	Open Office	SD-2	8		215	7.1	260	3.1	234	5.5	222	229	7.3	6.5
10	Open Office	SD-2	8		215	7.1	279	11.9	237	6.9	222	222	7.1	3.3
11	Open Office	SD-2	8		215	7.1	255	0.7	230	3.7	222	217	7.0	0.9
12	Open Office	SD-2	8		215	7.1	233	(9.5)	205	(7.9)	222	219	7.0	1.9
13	Open Office	SD-2	8		215	7.1	259	2.6	228	2.8	222	232	7.4	7.9
14	Open Office	SD-2	8		215	7.1	266	5.8	235	6.0	222	236	7.6	9.8

Totals:	3010	3548	17.9	3109	3.3	3108	3118	3.6
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Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Vestibule	RG-8	22x46		2480	100.0	1620	0.0	2474	0.0	2474	2610	83.7	5.2
Totals:					2480		1620	(34.7)	2474	(0.2)	2474	2610		5.2

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50	
	3010	3118	3.6%		Amperage:				Return:	-0.12
	2480	2610	5.2%			RPM				Total:
Total Return:	530	508	-4.2%					Filter PD:	0.23	

NOTES:

Technician: Brian Gillam

DATE: 4/1/2005

Air Balance Report

GENERAL DATA:

ID:	<u>A/C #20</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>2F E. Interior</u>	UNIT AIR CAPACITY:	<u>Nominal 2400 CFM</u>
MANUFACTURER:	<u></u>	SERIAL#:	<u></u>
MODEL#:	<u></u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	Hallway	SD-2	8		220	9.2	310	22.8	243	2.9	236	220	9.1	0.0
2	Open Office	SD-2	8		220	9.2	377	53.2	251	6.5	236	222	9.2	0.9
3	Open Office	SD-2	8		220	9.2	346	39.1	244	3.4	236	224	9.3	1.8
4	Open Office	SD-2	8		220	9.2	310	22.8	251	6.5	236	216	8.9	(1.8)
5	Open Office	SD-2	8		220	9.2	300	18.2	245	3.8	236	236	9.8	7.3
6	Open Office	SD-2	8		220	9.2	218	(19.0)	254	7.9	236	223	9.2	1.4
7	Open Office	SD-2	8		220	9.2	108	(69.0)	233	(1.6)	236	213	8.8	(3.2)
8	Open Office	SD-2	8		220	9.2	254	(2.7)	253	7.5	236	223	9.2	1.4
9	Open Office	SD-2	8		220	9.2	287	12.3	253	7.5	236	210	8.7	(4.5)
10	Storage	SD-1	6		150	6.3	121	(37.5)	134	(18.2)	161	154	6.4	2.7
11	Office	SD-1	6		150	6.3	151	(17.5)	163	1.1	161	155	6.4	3.3
12	Break Room	SD-1	6		120	5.0	53	(74.0)	57	(60.0)	129	123	5.1	2.5
Totals:					2400		2835	18.1	2581	7.5	2575	2419		0.8

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
R-1	Storage	RG-6	22x44		115	5.3	191	68.6	172	61.3	115	115	4.8	0.0
R-2	Open Office	RG-7	22x45		1900	87.8	1724	(6.8)	1556	(6.4)	1960	1910	79.0	0.5
R-3	Office	RG-8	22x46		150	6.9	196	33.2	184	34.4	127	147	6.1	(2.0)
Totals:					2165		2111	(2.5)	1912	(11.7)	127	2172		0.3

SUMMARY:

Total Supply:	Design	Tested	Deviation	Voltage:	L1	L2	L3	Supply:	0.50		
	2400	2419	0.8%		Amperage:					Return:	-0.12
	Total Return:	2165	2172			0.3%	RPM				Total:
Outdoor Air:	235	247	5.1%					Filter PD:	0.23		

NOTES:

Air Balance Report

GENERAL DATA:

ID:	EF-1	PROJECT #:	4Q5094
LOCATION:	Rooftop	PROJECT NAME:	Bicentennial
SERVICE:	Toilets		
MANUFACTURER:		UNIT AIR CAPACITY:	
MODEL#:		SERIAL#:	

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	2F Mens Restroom	EG-3	8"		200	15.4	180	14.6			151	211	20.6	5.5
2	2F Womens Restroom	EG-3	8"		200	15.4	170	9.6			151	195	19.0	(2.5)
3	2F Break Room	EG-1	8"		150	11.5	110	(2.1)			113	120	11.7	(20.0)
4	1F Kitchen	EG-1	8"		200	15.4	190	19.6			151	172	16.8	(14.0)
5	1F Women's Restroom	EG-3	8"		200	15.4	97	(26.9)			151	109	10.6	(45.5)
6	1F Men's Restroom	EG-3	8"		200	15.4	117	(16.9)			151	111	10.8	(44.5)
7	1F Women's Toilet	EG-2	6"		50	3.8	38	0.6			38	35	3.4	(30.0)
8	1F Men's Toilet	EG-2	6"		50	3.8	37	(1.4)			38	37	3.6	(26.0)
9	1F Janitor's	EF-1	6"		50	3.8	41	6.6			38	35	3.4	(30.0)
10														
11														
12														
13														
14														
Totals:					1300		980	(24.6)	0		980	1025		(21.2)

SUMMARY:

	Design	Tested	Deviation
Total Exhaust:	1300	1025	-21.2%

NOTES:

Technician: Brett Hoskins DATE: 2/25/2005

Clarke and Rush Mechanical
 4411 Auburn Blvd. Sacramento, CA 95841
 (916) 609-2665
 Lic #608005

Air Balance Report

GENERAL DATA:

ID:	EF-2	PROJECT #:	4Q5094
LOCATION:	Rooftop	PROJECT NAME:	Bicentennial
SERVICE:	1F Toilets		
MANUFACTURER:	Greenheck	UNIT AIR CAPACITY:	
MODEL#:	GB-071-4X-QD-R2	SERIAL#	04H20405

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	2F Toilet	EG-2	6"		50	25.0	76	73.0	50	22.5	39	40	26.1	(20.0)
2	1F Closet	EG-2	6"		50	25.0	23	(33.0)	28	(21.5)	39	30	19.6	(40.0)
3	1F Toilet	EG-2	6"		50	25.0	29	(21.0)	37	(3.5)	39	41	26.8	(18.0)
4	1F Toilet	EG-2	6"		50	25.0	30	(19.0)	40	2.5	39	42	27.5	(16.0)
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
Totals:					200		158	(21.0)	155	(22.5)	155	153		(23.5)

SUMMARY:

	Design	Tested	Deviation
Total Exhaust:	200	153	-23.5%

NOTES:

Technician: Brian Gillam DATE: 2/25/2005

Air Balance Report

GENERAL DATA:

ID:	EF-3	PROJECT #:	4Q5094
LOCATION:	Rooftop	PROJECT NAME:	Bicentennial
SERVICE:	1F Toilet	UNIT AIR CAPACITY:	
MANUFACTURER:	Greenheck	SERIAL#	04H06156
MODEL#:	GB-071-4X-QD-R3		

AIR BALANCE:

Register ID	Location	Code	Size	Misc	Design		Test 1		Test2		Final			
					Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	1F Toilet	EG-2	6"		50	100.0	37	0.0			37	53	100.0	6.0
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
Totals:					50		37	(26.0)	0		37	53		6.0

SUMMARY:

	Design	Tested	Deviation
Total Exhaust:	50	53	6.0%

NOTES:

Technician: Brian Gillam DATE: 2/25/2005

Air Balance Report

GENERAL DATA:

ID: EF-4 PROJECT #: 4Q5094
 LOCATION: Rooftop PROJECT NAME: Bicentennial
 SERVICE: 2F Toilet
 MANUFACTURER: Greenheck UNIT AIR CAPACITY: _____
 MODEL#: GB-071-4X-QD-R2 SERIAL#: 04H20403

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	2F Toilet	EG-2	6"		50	100.0	134	(0.0)			134	58	100.0	16.0
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
Totals:					50		134	168.0	0		134	58		16.0

SUMMARY:

	Design	Tested	Deviation
Total Exhaust:	50	58	16.0%

NOTES:

Technician: Brian Gillam DATE: 2/25/2005

Air Balance Report

GENERAL DATA:

ID:	<u>EF-5</u>	PROJECT #:	<u>4Q5094</u>
LOCATION:	<u>Rooftop</u>	PROJECT NAME:	<u>Bicentennial</u>
SERVICE:	<u>2F Toilet</u>	UNIT AIR CAPACITY:	
MANUFACTURER:	<u>Greenheck</u>	SERIAL#	<u>04H20408</u>
MODEL#:	<u>GB-071-4X-QD-R2</u>		

AIR BALANCE:

Register					Design		Test 1		Test2		Final			
ID	Location	Code	Size	Misc	Flow	%	Flow	Dev	Flow	Dev	Rev	Flow	%	Dev
1	2F Toilet	EG-2	6"		120	100.0	157	0.0			157	122	100.0	1.7
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
Totals:					120		157	30.8	0		157	122		1.7

SUMMARY:

	Design	Tested	Deviation
Total Exhaust:	120	122	1.7%

NOTES:

Technician: Brian Gillam DATE: 2/25/2005

FAX COVER SHEET

DATE: 2-18-05

FROM: Larry Kahler
Commercial Sales

TO: MARK Busig

CLARKE & RUSH MECHANICAL

COMPANY: Sac Blog Dept.

FAX #: 808-8370

FAX #: (916) 609-2633

PHONE #: 808-5910

MBL #: (916) 997-0331

NUMBER OF PAGES: 3

OFFICE #(916) 609-2626

SUBJECT: Permit #0413856 - 20 Bicentennial, Sac.

COMMENTS: Per our conversation this AM.
Copies of ETL Tests for this project.

Thanks for your help

Larry Kahler

If the reader is not the intended recipient, we request that you telephone, fax or mail this copy back to our address below. Thank You!!

4411 Auburn Blvd., Sacramento, CA 95841-4108 - www.clarke-rush.com
PH: (916) 609-2626 FX: (916) 609-2633

MICROFILM at FINA



FIELD INSPECTION REPORT

ITS Representative STEPHEN DODGE Page 1 of
 Product AIR DIFFUSER Date FEBRUARY 17, 2005
 Listing Report No. 3005585-003 Issue/Rev. Date APR 24, 2002 Order No. 3072833
 Company name referenced on Listing Report RICKARD AIR
 Site name DRYER, BABICH, BUCCOLA & CALLAHAN Site DIFFUSION
 Site Address 20 BICENTENNIAL CIRCLE Contact ERIC CHAPMAN
SACRAMENTO, CA 95826

ITS Representative: Verify that products comply with all items specified in the Listing Report. All variations should be noted on this report and conveyed by phone/fax to the Manager of Follow-up Service.

Page	Item	Complies	Comment
1	ALL	YES	COVER
2	ALL	YES	DESCRIPTION
3-5	ALL		N/A FOR FIELD LABEL
6	7-8	YES	GENERAL REQUIREMENTS
7-10	ALL		N/A FOR FIELD LABEL
11	ALL	YES	PHOTO NO. 1
12	ALL	YES	
13	ALL	YES	PHOTO NO. 2
14	1-6	YES	ITEM 1-5, HEATER, NOT INSTALLED RECOMMEND REPORT CHANGE TO MAKE HEATER OPTIONAL.

Send Letter to Follow-up Service, Cortland, NY

Letter of Explanation Required for Item Nos. _____

___ Variations Accepted per Phone/Fax Communication with _____

___ Variations NOT Accepted per Phone/Fax Communication with _____

How many units were labeled 35

Inspector's Time at Site 2.0 Hrs.

I acknowledge receipt of a copy of this inspection report issued by Intertek Testing Services NA Inc.

Site Representative's Signature [Signature]

165 Main St.

INTERTEK TESTING SERVICES NA INC.
 24 Grafton Avenue, Cortland, NY 13045
 Telephone: (607) 753-6711 or Fax: (607) 756-6699



Intertek Testing Services
ETL SEMKO

FIELD INSPECTION REPORT

ITS Representative STEPHEN DODGE Page 2 of

Product AIR DIFFUSER Date FEBRUARY 17, 2005

Listing Report No. 3005585-003 Issue/Rev. Date APR 24, 2002 Order No. 3072833

Company name referenced on Listing Report RICKARD AIR DIFFUSION

Site Name DRYER, BASICIT, BUCCOLA, CALLAHAN ~~TRASSARD~~ SO

Page	Item	Complies	Comment
15	ALL	YES	PHOTO NO. 3
16	1-7	YES	ITEM 4, ^{FOR} HEATER, NOT INSTALLED
17	ALL	YES	
18	1-4	YES	ITEM 3, FOR HEATER, NOT INSTALLED
E1-E3			N/A FOR FIELD INSP.
M1	ALL	YES	
C1			N/A FOR FIELD INSP
R-2			N/A FOR FIELD INSP
FIELD INSPECTION/DRAWL OF 35 UNITS AT LISTED			
SIGHT. INSPECTED 3 UNITS, IN COMPLIANCE. HEATER			
UNIT NOT INSTALLED, AFFIXED ETL LABEL TO			
35 UNITS.			
SERIAL NOS. OF UNITS SO# 01641-1 THROUGH			
SO# 01641-35			

INTERTEK TESTING SERVICES NA INC.
165 Main St. 24 Grotton Avenue
Cortland, NY 13045
Telephone: (607) 753-6711 or Fax: (607) 756-6699

APPLICATION FOR COMMERCIAL BUILDING PERMIT

CITY OF SACRAMENTO
PLANNING & BUILDING DEPARTMENT
 1231 I Street, Suite 200 or 2101 Arena Bl., 200
 Sacramento, CA 95814 Sacramento, CA 95834
 (916) 264-5656, 1-866 EZ PERMIT or www.cityofsacramento.org

ACTIVITY # | Insp. Area

0413856

Applicant to complete all areas down to valuation

ADDRESS 20 BICENTENNIAL CIRCLE

Suite 100
200

PARCEL # 079-0420-006

<p style="text-align: center;">CONTACT</p> <p>Name <u>GREG HATFIELD</u></p> <p>Street Address <u>1179 GRAND REVER DR</u></p> <p>City/State/Zip <u>SACRAMENTO CA 95831</u></p> <p>Phone <u>(916) 427-7100</u> FAX <u>(916) 423-1955</u></p> <p>E-mail: <u>GREGHATFIELD@AOL.COM</u></p> <p style="text-align: center;">ARCHITECT/ENGINEER</p> <p>Name <u>TROTSKY / KARL A. FREEMAN</u></p> <p>Address <u>1765 CHALLENGE WAY #130</u></p> <p>City/State/Zip <u>SACRAMENTO CA 95815</u></p> <p>Phone <u>(916) 565-0888</u> FAX <u>(916) 565-0480</u></p> <p>E-mail:</p>	<p style="text-align: center;">LICENSED CONTRACTOR Lic No. # <u>705570</u></p> <p>Name <u>M.P. ALLEN GENERAL CONTRACTOR</u></p> <p>Address <u>9807 FAIR OAKS BLVD</u></p> <p>City/State/Zip <u>FAIR OAKS, CA 95628-7012</u></p> <p>Phone <u>(916) 904-5000</u> FAX <u>(916) 904-5008</u></p> <p>E-mail: <u>MPALLEN@MPALLEN.COM</u></p> <p style="text-align: center;">OWNER</p> <p>Name <u>DREYEC BABICCH BUCCOLA & CALLAHAN</u></p> <p>Address <u>20 BICENTENNIAL CIRCLE</u></p> <p>City/State/Zip _____</p> <p>Phone _____ FAX _____</p> <p>E-mail: _____</p>
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→ Will permittee have any employees on the jobsite? No Yes → INSURANCE CO: STATE FUND # 258-258-04
 → WORKER'S COMPENSATION POLICY # _____ EXPIRATION DATE: 04/01/05

NATURE OF WORK IN DETAIL: OFFICE REMODEL / STRUCTURAL FOR RACKING. INCLUDES FIRE SPRINKLERS FOR OFFICE REMODEL - SEPARATE PERMIT HAS BEEN ISSUED FOR FIRE SPRINKLING TO FULL BUILDING.

OCCUPANT/TENANT: LAW OFFICE VALUATION: \$ 650,000.00

FLOOD STATUS						S.C.A.T.											
JOB DESCRIPTION						<input type="checkbox"/> BLDG <input type="checkbox"/> SHELL <input type="checkbox"/> APT <input type="checkbox"/> TI () <input type="checkbox"/> REM () <input type="checkbox"/> SW <input type="checkbox"/> FIRE <input type="checkbox"/> ADD <input type="checkbox"/> OTHER <input type="checkbox"/>											
INSPECTION DISCIPLINES						BLDG		MECH		PLUMB		ELEC		SITE		FIRE	
# Stories	1 st flr Area	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y (N)		Fed Code		Vio. File							
2		59320		B	REN	SPR	ALARM										
(B)	(L)	(P)	(M)	(E)	(F)	S		D		PW		UTIL					
BTM	BTM																

COMMENTS:

REGIONAL SANITATION FEES? Yes No HEALTH DEPARTMENT? Yes No
 WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS? Yes No

SAMPLE



February 28, 2005

M.P. Allen General Contractors
Attention: Mike Deitz
9807 Fair Oaks Boulevard
Fair Oaks, CA 95628

**WELDING AND EPOXY OBSERVATION SERVICES
DBBC IMPROVEMENTS**

20 Bicentennial Circle
Sacramento, California
Reference No. 1660-008
Permit No. 0413856

INTRODUCTION

In accordance with your request, we have performed welding and epoxy anchor observation and testing services for the subject project. Our construction testing and observations were performed between December 7 and December 23, 2004.

SHOP AND FIELD WELDING OBSERVATIONS

Our representative observed structural shop and field welding for beam stiffeners and the stairwell structure and performed ultrasonic testing of complete penetration moment connection welds. Prior to initiation of welding operations we reviewed qualification certificates of all project welders; our review indicated that the welder's certificates were current and applicable to the various types of project welding.

We observed welding materials and workmanship; materials and workmanship appeared to comply with project plans and specifications, industry standards, and provisions of the American Welding Society. Any rejectable ultrasonic indications found in welds were repaired and retested until all welds were accepted in accordance with Section Six of the American Welding Society "Structural Steel Welding Code".

EPOXY OBSERVATIONS

Our representative observed the pre-drilled holes used for epoxy installation of all-thread bolts. All-thread bolts were installed to provide anchorage for ledgers to the existing concrete wall. The pre-drilled holes appeared to meet depth requirements and were brushed and blown out prior to all-thread

bolt installation and epoxy placement. Our representative observed the mixing and application of epoxy at the pre-drilled holes. Our observations indicate that epoxy installation was performed in accordance with the applicable ICBO report and the project plans.

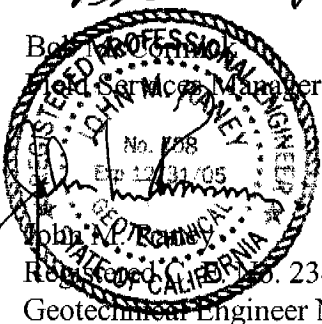
LIMITATIONS

Our test data and observations indicate that the described construction observed by this company has, to the best of our knowledge, been performed in accord with sound engineering practice and the project plans. Horizontal and vertical limits of the described work were determined by others. We cannot guarantee construction, nor should our work or this letter be construed as relieving the contractors from their primary responsibility to conform to contractual agreements and sound engineering practice.

Should you have any questions regarding this letter or require any further information, please contact our office.

Very truly yours,

RANEY GEOTECHNICAL, INC.



(2) Addressee

BM/JMR/cjh

CITY OF SACRAMENTO

CERTIFICATE OF OCCUPANCY

For Information Contact (916) 808-5716

Building Address: 20 BICENTENNIAL CR Permit No.: 0413856
Building Use: OFFICE Occupancy: B
Building Owner: DREYER, BABICH, BUCCOLA Construction Type: _____
&CALLAHAM
Owner Address: SACRAMENTO, CALIF 95815 Sprinkled? Yes No
Portion of Building Occupied: ENTIRE Area: 40,000 Sq. Ft.
06/24/2005 James Redfert **RON BEEHLER**
Date By: (Print) Sign CHIEF BUILDING OFFICIAL

[Finaled By: DPB, RH, CDY, MF]

This Certificate, issued pursuant to the requirements of Section 109 of the Uniform Building Code, certifies that at time of issuance the described portion of the building has been inspected for compliance with the Uniform Building Code, as adopted per Title 15 of the Sacramento City Code for the group and division of occupancy and use for which the proposed occupancy is classified. Issuance of this certificate shall not be construed as an approval of a violation of any Codes, or Federal, State and City Laws or Ordinances. Certificates presuming to give authority to such violation shall not be valid. This certificate shall be posted in a conspicuous place on the premises and shall not be removed except by the Chief Building Official. No changes shall be made in the character of occupancy or use without approval of the Chief Building Official.

POST IN A CONSPICUOUS PLACE