

# Zone Checksums

By MATENO

## EMPLOY CAFETERIA

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 7 / 14			Mo/Hr: 7 / 14		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 109 / 90 / 188			OADB: 109		OADB: 46			SADB			Plenum		
	Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
	+ Lat.	+ Lat.	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	Of Total	85.7	85.7	0.0	0.0	0.0	
	Btu/h	Btu/h			Btu/h		Btu/h	Btu/h	(%)	85.7	85.7	0.0	0.0	0.0	
<b>Envelope Loads</b>															
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Roof Cond	0	19,272	19,272	41	0	0	0	-4,892	87	0	0	0	0	0	
Glass Solar	1,846	0	1,846	4	1,846	9	0	0	0	0	0	0	0	0	
Glass Cond	1,391	0	1,391	3	1,391	7	-925	-925	16	0	0	0	0	0	
Wall Cond	1,206	503	1,709	4	1,206	6	-608	-899	16	0	0	0	0	0	
Partition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration	8,906	0	8,906	19	2,985	15	0	0	0	0	0	0	0	0	
<b>Sub Total ==&gt;</b>	<b>13,349</b>	<b>19,775</b>	<b>33,124</b>	<b>70</b>	<b>7,429</b>	<b>37</b>	<b>-1,534</b>	<b>-6,717</b>	<b>119</b>						
<b>Internal Loads</b>															
Lights	1,365	341	1,707	4	1,365	7	0	0	0	0	0	0	0	0	
People	11,126	0	11,126	24	5,282	26	0	0	0	0	0	0	0	0	
Misc	2,052	0	2,052	4	2,052	10	0	0	0	0	0	0	0	0	
<b>Sub Total ==&gt;</b>	<b>14,543</b>	<b>341</b>	<b>14,885</b>	<b>32</b>	<b>8,700</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Ceiling Load</b>															
Ceiling Load	4,077	-4,077	0	0	4,077	20	-1,123	0	0	0	0	0	0	0	
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ov/Undr Sizing	8	0	8	0	8	0	0	0	0	0	0	0	0	0	
Exhaust Heat	0	-933	-933	-2	0	0	0	0	0	0	0	0	0	0	
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grand Total ==&gt;</b>	<b>31,977</b>	<b>15,105</b>	<b>47,083</b>	<b>100.00</b>	<b>20,213</b>	<b>100.00</b>	<b>-2,657</b>	<b>-5,636</b>	<b>100.00</b>						

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	80	0
Supply	932	932
MinStop/Rh	0	0
Return	1,012	932
Exhaust	80	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	0.78	0.78
cfm/ton	237.54	
ft2/ton	306.48	
Btu/hr-ft2	39.15	-4.69
No. People	25	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	3.9	47.1	35.3	932	85.7	68.5	79.8	55.0	52.1	54.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>3.9</b>	<b>47.1</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	1,203		
Part	0		
ExFlr	0		
Roof	1,203	0	0
Wall	413	83	20

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			F	Lvg
Main Htg	-5.6	932	65.1	70.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-5.6</b>			

# Zone Checksums

By MATENO

## EMPLOYEE MEN LOCKERS

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 10			Mo/Hr: 7 / 9		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 96 / 87 / 191			OADB: 92		OADB: 46				SADB	59.7	71.5	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD	Fn BldTD	Fn Frict
<b>Envelope Loads</b>														
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Roof Cond	0	2,244	2,244	8	0	0	0	17	0	-1,470	17	0.0	0.0	0.0
Glass Solar	8,572	0	8,572	31	10,082	48	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	1,794	0	1,794	7	1,474	7	0	21	-1,833	-1,833	21	0.0	0.0	0.0
Wall Cond	5,722	2,956	8,678	32	5,296	25	0	36	-2,096	-3,098	36	0.0	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Infiltration	2,042	0	2,042	7	359	2	0	5	-452	-452	5	0.0	0.0	0.0
<b>Sub Total ==&gt;</b>	<b>18,129</b>	<b>5,200</b>	<b>23,329</b>	<b>85</b>	<b>17,212</b>	<b>83</b>		<b>79</b>	<b>-4,382</b>	<b>-6,854</b>				
<b>Internal Loads</b>														
Lights	1,365	341	1,707	6	1,365	7	0	0	0	0	0	0	0	0
People	994	0	994	4	497	2	0	0	0	0	0	0	0	0
Misc	1,500	0	1,500	5	1,500	7	0	0	0	0	0	0	0	0
<b>Sub Total ==&gt;</b>	<b>3,859</b>	<b>341</b>	<b>4,200</b>	<b>15</b>	<b>3,362</b>	<b>16</b>			<b>0</b>	<b>0</b>				
<b>Ceiling Load</b>														
Ventilation Load	440	-440	0	0	283	1	0	0	-337	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ov/Undr Sizing	1	0	1	0	1	0	0	0	0	61	-1	0	0	0
Exhaust Heat	0	-79	-79	0	0	0	0	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grand Total ==&gt;</b>	<b>22,429</b>	<b>5,023</b>	<b>27,451</b>	<b>100.00</b>	<b>20,857</b>	<b>100.00</b>			<b>-4,719</b>	<b>-8,727</b>	<b>100.00</b>			

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	19	19
Supply	1,254	1,254
MinStop/Rh	0	0
Return	1,273	1,273
Exhaust	19	19
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	3.47	3.47
cfm/ton	548.19	
ft2/ton	157.96	
Btu/hr-ft2	75.97	-24.15
No. People	2	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	2.3	27.5	25.4	1,254	78.8	63.7	66.8	59.7	56.5	65.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2.3</b>	<b>27.5</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	361		
Part	0		
ExFlr	0		
Roof	361	0	0
Wall	422	84	20

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			F	Lvg
Main Htg	-8.7	1,254	65.1	71.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-8.7</b>			

# Zone Checksums

By MATENO

ENG

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 9 / 15			Mo/Hr: 10 / 14		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 106 / 86 / 166			OADB: 102		OADB: 46				SADB	57.6	72.3	
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total (%)						
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h							
<b>Envelope Loads</b>					<b>Envelope Loads</b>									
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	
Roof Cond	0	18,086	18,086	34	0	0	-4,677	37	0	0	0	0	0	
Glass Solar	7,665	0	7,665	14	10,192	33	0	0	0	0	0	0	0	
Glass Cond	3,260	0	3,260	6	2,701	9	-2,311	18	0	0	0	0	0	
Wall Cond	7,105	3,213	10,317	19	6,892	23	-2,642	31	0	0	0	0	0	
Partition	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration	6,147	0	6,147	11	1,744	6	-1,439	11	0	0	0	0	0	
<b>Sub Total ==&gt;</b>	<b>24,177</b>	<b>21,298</b>	<b>45,475</b>	<b>84</b>	<b>21,529</b>	<b>71</b>	<b>-6,391</b>	<b>98</b>						
<b>Internal Loads</b>					<b>Internal Loads</b>									
Lights	1,365	341	1,707	3	1,365	4	0	0	0	0	0	0	0	
People	5,500	0	5,500	10	2,750	9	0	0	0	0	0	0	0	
Misc	1,962	0	1,962	4	1,962	6	0	0	0	0	0	0	0	
<b>Sub Total ==&gt;</b>	<b>8,827</b>	<b>341</b>	<b>9,168</b>	<b>17</b>	<b>6,077</b>	<b>20</b>	<b>0</b>	<b>0</b>						
<b>Ceiling Load</b>	<b>3,899</b>	<b>-3,899</b>	<b>0</b>	<b>0</b>	<b>2,902</b>	<b>10</b>	<b>-1,074</b>	<b>0</b>						
<b>Ventilation Load</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Dehumid. Ov Sizing</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Ov/Undr Sizing</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>193</b>	<b>-2</b>						
<b>Exhaust Heat</b>	<b>0</b>	<b>-700</b>	<b>-700</b>	<b>-1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Sup. Fan Heat</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Ret. Fan Heat</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Duct Heat Pkup</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>Reheat at Design</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-504</b>	<b>4</b>						
<b>Grand Total ==&gt;</b>	<b>36,909</b>	<b>17,041</b>	<b>53,950</b>	<b>100.00</b>	<b>30,515</b>	<b>100.00</b>	<b>-7,465</b>	<b>-12,642</b>	<b>100.00</b>					

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	60	60
Supply	1,620	1,620
MinStop/Rh	0	0
Return	1,680	1,680
Exhaust	60	60
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.41	1.41
cfm/ton	360.29	
ft2/ton	255.68	
Btu/hr-ft2	46.93	-11.00
No. People	11	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	4.5	54.0	47.1	1,620	85.7	66.0	66.8	57.6	55.1	62.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>4.5</b>	<b>54.0</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	1,150		
Part	0		
ExFlr	0		
Roof	1,150	0	0
Wall	532	106	20

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			F	F
Main Htg	-12.6	1,620	65.1	72.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-12.6</b>			

# Zone Checksums

By MATENO

## LAUNDRY

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES						
Peaked at Time:		Mo/Hr: 9 / 15			Mo/Hr: 10 / 14		Mo/Hr: Heating Design					Cooling			Heating			
Outside Air:		OADB/WB/HR: 106 / 86 / 166			OADB: 102		OADB: 46					SADB			Plenum			
	Space	Plenum	Net	Percent	Space	Percent	Space Peak	Coil Peak	Percent	Return	Ret/OA		Fn MtrTD		Fn BldTD		Fn Frict	
	Sens. + Lat.	Sens. + Lat.	Total	Of Total	Sensible	Of Total	Space Sens	Tot Sens	Of Total	Plenum	Fn BldTD		Fn Frict					
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	Fn BldTD		Fn Frict					
<b>Envelope Loads</b>					<b>Envelope Loads</b>			<b>Envelope Loads</b>										
	Skylite Solar	0	0	0	0	0	0	0	0	0	Skylite Solar		Skylite Cond		Roof Cond		Glass Solar	
	Skylite Cond	0	0	0	0	0	0	0	0	0	Skylite Cond		Roof Cond		Glass Solar		Glass Cond	
	Roof Cond	0	17,653	17,653	29	0	0	0	29	0	Roof Cond		Glass Solar		Glass Cond		Wall Cond	
	Glass Solar	10,453	0	10,453	17	13,898	37	0	0	0	Glass Solar		Glass Cond		Wall Cond		Partition	
	Glass Cond	4,445	0	4,445	7	3,683	10	0	20	0	Glass Cond		Wall Cond		Partition		Exposed Floor	
	Wall Cond	9,689	4,381	14,069	23	9,399	25	0	33	0	Wall Cond		Partition		Exposed Floor		Infiltration	
	Partition	0	0	0	0	0	0	0	0	0	Partition		Exposed Floor		Infiltration		Sub Total ==>	
	Exposed Floor	0	0	0	0	0	0	0	0	0	Exposed Floor		Infiltration		Sub Total ==>			
	Infiltration	6,000	0	6,000	10	1,702	5	0	9	0	Infiltration		Sub Total ==>					
	Sub Total ==>	30,586	22,034	52,620	86	28,682	76	-8,158	91	-14,445	Sub Total ==>							
<b>Internal Loads</b>					<b>Internal Loads</b>			<b>Internal Loads</b>										
	Lights	1,365	341	1,707	3	1,365	4	0	0	0	Lights		People		Misc		Sub Total ==>	
	People	5,500	0	5,500	9	2,750	7	0	0	0	People		Misc		Sub Total ==>			
	Misc	1,915	0	1,915	3	1,915	5	0	0	0	Misc		Sub Total ==>					
	Sub Total ==>	8,780	341	9,121	15	6,030	16	0	0	0	Sub Total ==>							
	Ceiling Load	3,806	-3,806	0	0	2,833	8	-1,048	0	0	Ceiling Load		Ventilation Load		Dehumid. Ov Sizing		Ov/Undr Sizing	
	Ventilation Load	0	0	0	0	0	0	0	0	0	Ventilation Load		Dehumid. Ov Sizing		Ov/Undr Sizing		Exhaust Heat	
	Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	Dehumid. Ov Sizing		Ov/Undr Sizing		Exhaust Heat		Sup. Fan Heat	
	Ov/Undr Sizing	7	0	7	0	7	0	0	0	188	Ov/Undr Sizing		Exhaust Heat		Sup. Fan Heat		Ret. Fan Heat	
	Exhaust Heat	0	-683	-683	-1	0	0	0	0	0	Exhaust Heat		Sup. Fan Heat		Ret. Fan Heat		Duct Heat Pkup	
	Sup. Fan Heat	0	0	0	0	0	0	0	0	0	Sup. Fan Heat		Ret. Fan Heat		Duct Heat Pkup		Reheat at Design	
	Ret. Fan Heat	0	0	0	0	0	0	0	0	0	Ret. Fan Heat		Duct Heat Pkup		Reheat at Design			
	Duct Heat Pkup	0	0	0	0	0	0	0	0	0	Duct Heat Pkup		Reheat at Design					
	Reheat at Design	0	0	0	0	0	0	0	0	0	Reheat at Design							
	Grand Total ==>	43,178	17,886	61,064	100.00	37,551	100.00	-9,206	100.00	-15,953	Grand Total ==>							

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	59	59
Supply	2,111	2,111
MinStop/Rh	0	0
Return	2,170	2,170
Exhaust	59	59
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.88	1.88
cfm/ton	414.87	
ft2/ton	220.49	
Btu/hr-ft2	54.42	-14.22
No. People	11	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	5.1	61.1	54.3	2,111	85.7	66.0	66.8	58.6	56.5	66.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>5.1</b>	<b>61.1</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	1,122		
Part	0		
ExFlr	0		
Roof	1,122	0	0
Wall	726	145	20

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			MBh	Lvg
	MBh	cfm	F	F
Main Htg	-16.0	2,111	65.1	72.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-16.0</b>			

# Zone Checksums

By MATENO

## LINEN STORAGE

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 17			Mo/Hr: 7 / 16		Mo/Hr: Heating Design				Cooling			Heating	
Outside Air:		OADB/WB/HR: 108 / 89 / 187			OADB: 109		OADB: 46				SADB			77.1	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak Tot	Percent Of Total	Space Sens	Coil Peak Tot	Percent Of Total	Plenum			65.1
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return			65.1
<b>Envelope Loads</b>															
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	Fn MtrTD			0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	Fn BldTD			0.0
Roof Cond	0	19,486	19,486	50	0	0	0	0	0	-4,191	59	Fn Frict			0.0
Glass Solar	0	0	0	0	0	0	0	0	0	0	0				
Glass Cond	0	0	0	0	0	0	0	0	0	0	0				
Wall Cond	5,461	1,620	7,081	18	5,334	34	-2,470	47	0	-3,321	47				
Partition	0	0	0	0	0	0	0	0	0	0	0				
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0				
Infiltration	9,531	0	9,531	24	3,009	19	-1,934	27	0	-1,934	27				
<b>Sub Total ==&gt;</b>	<b>14,991</b>	<b>21,107</b>	<b>36,098</b>	<b>92</b>	<b>8,343</b>	<b>53</b>	<b>-4,404</b>	<b>133</b>		<b>-9,446</b>	<b>133</b>				
<b>Internal Loads</b>															
Lights	1,365	341	1,707	4	1,365	9	0	0	0	0	0				
People	1,000	0	1,000	3	500	3	0	0	0	0	0				
Misc	1,500	0	1,500	4	1,500	10	0	0	0	0	0				
<b>Sub Total ==&gt;</b>	<b>3,865</b>	<b>341</b>	<b>4,207</b>	<b>11</b>	<b>3,365</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
<b>Ceiling Load</b>															
Ventilation Load	4,030	-4,030	0	0	4,054	26	-962	0	0	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0				
Ov/Undr Sizing	14	0	14	0	14	0	0	0	0	0	0				
Exhaust Heat	0	-1,086	-1,086	-3	0	0	259	-4	0	0	0				
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0				
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0				
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0				
Reheat at Design	0	0	0	0	0	0	0	0	0	2,082	-29				
<b>Grand Total ==&gt;</b>	<b>22,901</b>	<b>16,332</b>	<b>39,233</b>	<b>100.00</b>	<b>15,776</b>	<b>100.00</b>	<b>-5,366</b>	<b>-7,105</b>	<b>100.00</b>	<b>-7,105</b>	<b>100.00</b>				

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	81	81
Supply	544	544
MinStop/Rh	0	0
Return	625	625
Exhaust	81	81
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	0.53	0.53
cfm/ton	166.37	
ft2/ton	315.09	
Btu/hr-ft2	38.08	-6.90
No. People	2	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	3.3	39.2	32.1	544	87.4	66.5	66.8	48.3	39.6	23.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>3.3</b>	<b>39.2</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	1,030		
Part	0		
ExFlr	0		
Roof	1,030	0	0
Wall	359	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent F	Lvg F
Main Htg	-7.1	544	65.1	77.1
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-7.1</b>			

# Zone Checksums

By MATENO

MISC 1 Y 2

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 9 / 14			Mo/Hr: 10 / 13		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 105 / 86 / 166			OADB: 100		OADB: 46				SADB	60.2	71.1	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD	Fn BldTD	Fn Frict
<b>Envelope Loads</b>														
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Roof Cond	0	6,120	6,120	18	0	0	-1,595	16	0	0	0	0.0	0.0	0.0
Glass Solar	7,459	0	7,459	22	10,086	42	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	2,712	0	2,712	8	2,202	9	-1,933	20	-1,933	-1,933	20	0.0	0.0	0.0
Wall Cond	6,471	3,039	9,510	28	6,287	26	-2,211	33	-2,211	-3,268	33	0.0	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Infiltration	2,076	0	2,076	6	546	2	-491	5	-491	-491	5	0.0	0.0	0.0
<b>Sub Total ==&gt;</b>	<b>18,719</b>	<b>9,159</b>	<b>27,878</b>	<b>84</b>	<b>19,122</b>	<b>79</b>	<b>-4,635</b>	<b>75</b>	<b>-4,635</b>	<b>-7,287</b>	<b>75</b>			
<b>Internal Loads</b>														
Lights	1,365	341	1,707	5	1,365	6	0	0	0	0	0	0	0	0
People	2,500	0	2,500	7	1,250	5	0	0	0	0	0	0	0	0
Misc	1,500	0	1,500	4	1,500	6	0	0	0	0	0	0	0	0
<b>Sub Total ==&gt;</b>	<b>5,365</b>	<b>341</b>	<b>5,707</b>	<b>17</b>	<b>4,115</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
<b>Ceiling Load</b>														
Ventilation Load	1,193	-1,193	0	0	816	3	-366	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0			
Ov/Undr Sizing	2	0	2	0	2	0	0	0	0	0	0			
Exhaust Heat	0	-214	-214	-1	0	0	66	-1	0	0	0			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0			
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0			
<b>Grand Total ==&gt;</b>	<b>25,278</b>	<b>8,094</b>	<b>33,372</b>	<b>100.00</b>	<b>24,055</b>	<b>100.00</b>	<b>-5,001</b>	<b>26</b>	<b>-5,001</b>	<b>-9,774</b>	<b>100.00</b>			

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	21	21
Supply	1,493	1,493
MinStop/Rh	0	0
Return	1,514	1,514
Exhaust	21	21
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	3.81	3.81
cfm/ton	537.01	
ft2/ton	140.96	
Btu/hr-ft2	85.13	-24.93
No. People	5	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	2.8	33.4	30.7	1,493	84.6	65.6	66.8	60.2	57.1	66.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2.8</b>	<b>33.4</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	392		
Part	0		
ExFlr	0		
Roof	392	0	0
Wall	446	89	20

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
Main Htg	-9.8	1,493	65.1	71.1
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-9.8</b>			

# Zone Checksums

By MATENO

## S&R OFFICES

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14			Mo/Hr: 7 / 14				Mo/Hr: Heating Design						
Outside Air:		OADB/WB/HR: 109 / 90 / 188			OADB: 109				OADB: 46						
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total (%)							
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h								
<b>Envelope Loads</b>					<b>Envelope Loads</b>			<b>Envelope Loads</b>							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	SADB	55.0	70.6	
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	Plenum	85.7	65.1	
Roof Cond	0	37,302	37,302	50	0	0	0	0	0	-9,469	119	Return	85.7	65.1	
Glass Solar	1,846	0	1,846	2	1,846	6	1,846	6	0	0	0	Ret/OA	85.7	65.1	
Glass Cond	1,391	0	1,391	2	1,391	5	1,391	5	-925	-925	12	Fn MtrTD	0.0	0.0	
Wall Cond	1,206	503	1,709	2	1,206	4	1,206	4	-608	-899	11	Fn BldTD	0.0	0.0	
Partition	0	0	0	0	0	0	0	0	0	0	0	Fn Frict	0.0	0.0	
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0				
Infiltration	17,173	0	17,173	23	5,778	20	5,778	20	0	0	0				
<i>Sub Total ==&gt;</i>	21,616	37,804	59,421	80	10,221	36	10,221	36	<i>Sub Total ==&gt;</i>	-1,534	-11,294	142			
<b>Internal Loads</b>					<b>Internal Loads</b>			<b>Internal Loads</b>							
Lights	1,365	341	1,707	2	1,365	5	1,365	5	0	0	0				
People	11,126	0	11,126	15	5,282	18	5,282	18	0	0	0				
Misc	3,972	0	3,972	5	3,972	14	3,972	14	0	0	0				
<i>Sub Total ==&gt;</i>	16,463	341	16,804	23	10,619	37	10,619	37	<i>Sub Total ==&gt;</i>	0	0	0			
<b>Ceiling Load</b>					<b>Ceiling Load</b>			<b>Ceiling Load</b>							
Ventilation Load	7,892	-7,892	0	0	7,892	27	7,892	27	-2,174	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0				
Ov/Undr Sizing	15	0	15	0	15	0	15	0	0	0	0				
Exhaust Heat	0	-1,807	-1,807	-2	0	0	0	0	0	0	0				
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0				
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0				
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0				
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0				
<i>Grand Total ==&gt;</i>	45,986	28,447	74,433	100.00	28,747	100.00	28,747	100.00	<i>Grand Total ==&gt;</i>	-3,707	-7,944	100.00			

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	156	0
Supply	1,326	1,326
MinStop/Rh	0	0
Return	1,481	1,326
Exhaust	156	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	0.57	0.57
cfm/ton	213.70	
ft2/ton	375.24	
Btu/hr-ft2	31.98	-3.41
No. People	25	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	6.2	74.4	57.2	1,326	85.7	68.6	80.4	55.0	50.1	47.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	6.2	74.4								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	2,328		
Part	0		
ExFlr	0		
Roof	2,328	0	0
Wall	413	83	20

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent F	Lvg F
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	-7.9			

# Zone Checksums

By MATENO

## SOILED LINEN

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time:		Mo/Hr: 7 / 16			Mo/Hr: 6 / 17		Mo/Hr: Heating Design				Cooling			Heating		
Outside Air:		OADB/WB/HR: 109 / 90 / 188			OADB: 107		OADB: 46				SADB			73.4		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total (%)								
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h									
<b>Envelope Loads</b>													<b>Fn MtrTD</b>		0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0	<b>Fn BldTD</b>				0.0	0.0		
Skylite Cond	0	0	0	0	0	0	0	0	<b>Fn Frict</b>				0.0	0.0		
Roof Cond	0	9,811	9,811	39	0	0	0	34								
Glass Solar	0	0	0	0	0	0	0	0								
Glass Cond	0	0	0	0	0	0	0	0								
Wall Cond	5,405	1,595	7,000	28	5,759	46	-2,470	55								
Partition	0	0	0	0	0	0	0	0								
Exposed Floor	0	0	0	0	0	0	0	0								
Infiltration	4,757	0	4,757	19	1,359	11	-949	16								
<b>Sub Total ==&gt;</b>	<b>10,162</b>	<b>11,406</b>	<b>21,567</b>	<b>85</b>	<b>7,118</b>	<b>57</b>	<b>-3,419</b>	<b>105</b>								
<b>Internal Loads</b>																
Lights	1,365	341	1,707	7	1,365	11	0	0								
People	1,000	0	1,000	4	500	4	0	0								
Misc	1,500	0	1,500	6	1,500	12	0	0								
<b>Sub Total ==&gt;</b>	<b>3,865</b>	<b>341</b>	<b>4,207</b>	<b>17</b>	<b>3,365</b>	<b>27</b>	<b>0</b>	<b>0</b>								
<b>Ceiling Load</b>																
Ventilation Load	1,989	-1,989	0	0	1,964	16	-472	0								
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0								
Ov/Undr Sizing	5	0	5	0	5	0	0	0								
Exhaust Heat	0	-536	-536	-2	0	0	127	-2								
Sup. Fan Heat	0	0	0	0	0	0	0	0								
Ret. Fan Heat	0	0	0	0	0	0	0	0								
Duct Heat Pkup	0	0	0	0	0	0	0	0								
Reheat at Design	0	0	0	0	0	0	175	-3								
<b>Grand Total ==&gt;</b>	<b>16,020</b>	<b>9,223</b>	<b>25,243</b>	<b>100.00</b>	<b>12,452</b>	<b>100.00</b>	<b>-3,891</b>	<b>-6,023</b>	<b>100.00</b>							

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	40	40
Supply	667	667
MinStop/Rh	0	0
Return	707	707
Exhaust	40	40
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.32	1.32
cfm/ton	317.14	
ft2/ton	240.21	
Btu/hr-ft2	49.96	-11.92
No. People	2	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	2.1	25.2	21.5	667	87.4	66.5	66.8	57.8	54.1	58.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2.1</b>	<b>25.2</b>								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	505		
Part	0		
ExFlr	0		
Roof	505	0	0
Wall	359	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			F	F
Main Htg	-6.0	667	65.1	73.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
<b>Total</b>	<b>-6.0</b>			