

GENERAL REQUIREMENTS

HVAC HEAT GAIN & LOSS CALCULATIONS

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		179.108	0.000	179.108	18.09	7,087	0.716	96.660	9.76	5,697	0.575	1,157	0.117	-	-
1- Admin Reception/Secretary-ext		18.755	1.141	19.896	20.44	759	0.780	11.404	11.72	704	0.723	98	0.101	-	-
	1- Admin Reception/Secretary-ext	18.755	1.141	19.896	20.44	759	0.780	11.404	11.72	704	0.723	-	-	-	-
1-Admin Conference-int 1		10.145	2.698	12.844	25.48	338	0.671	2.593	5.14	57	0.113	125	0.249	-	-
	1-Admin Conference-int 1	10.145	2.698	12.844	25.48	338	0.671	2.593	5.14	57	0.113	-	-	-	-
1-Admin Copy		6.509	0.740	7.249	27.64	259	0.988	1.343	5.12	56	0.213	38	0.146	-	-
	1-Admin Copy	6.509	0.740	7.249	27.64	259	0.988	1.343	5.12	56	0.213	-	-	-	-
1-Admin Corridor-1		3.705	0.402	4.108	10.10	139	0.341	2.233	5.49	127	0.311	31	0.075	-	-
	1-Admin Corridor-1	3.705	0.402	4.108	10.10	139	0.341	2.233	5.49	127	0.311	-	-	-	-
1-Admin Corridor-2		4.134	0.417	4.551	10.80	157	0.373	2.524	5.99	146	0.346	32	0.075	-	-
	1-Admin Corridor-2	4.134	0.417	4.551	10.80	157	0.373	2.524	5.99	146	0.346	-	-	-	-
1-Admin Mail		1.795	0.429	2.224	19.60	61	0.538	0.604	5.32	21	0.189	21	0.185	-	-
	1-Admin Mail	1.795	0.429	2.224	19.60	61	0.538	0.604	5.32	21	0.189	-	-	-	-
1-Admin Records		1.592	0.201	1.793	8.20	56	0.258	1.209	5.53	69	0.314	16	0.075	-	-
	1-Admin Records	1.592	0.201	1.793	8.20	56	0.258	1.209	5.53	69	0.314	-	-	-	-
1-Admin TLTS		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Admin TLTS	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Adult Ed Office-ext		3.775	0.241	4.016	24.97	154	0.959	2.402	14.93	151	0.936	18	0.114	-	-
	1-Adult Ed Office-ext	3.775	0.241	4.016	24.97	154	0.959	2.402	14.93	151	0.936	-	-	-	-
1-Coop Coord Office-ext		4.731	0.200	4.932	27.33	196	1.089	3.010	16.68	192	1.063	20	0.110	-	-
	1-Coop Coord Office-ext	4.731	0.200	4.932	27.33	196	1.089	3.010	16.68	192	1.063	-	-	-	-
1-Corridor/Entry-int 1		18.306	2.477	20.783	8.79	659	0.279	13.058	5.52	741	0.313	177	0.075	-	-
	1-Corridor/Entry-int 1	18.306	2.477	20.783	8.79	659	0.279	13.058	5.52	741	0.313	-	-	-	-
1-Principal Office-ext		7.457	0.229	7.687	26.07	312	1.060	4.805	16.30	310	1.050	28	0.096	-	-
	1-Principal Office-ext	7.457	0.229	7.687	26.07	312	1.060	4.805	16.30	310	1.050	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
1-Principal Secrtry-ext	1-Principal Secrtry-ext	3.518	0.193	3.711	24.62	143	0.950	2.264	15.02	142	0.940	18	0.116	-	-
1-SPED Conference-ext	1-SPED Conference-ext	9.188	2.194	11.382	32.25	318	0.902	5.346	15.15	274	0.778	101	0.288	-	-
1-SPED DIR Office-ext	1-SPED DIR Office-ext	4.349	0.315	4.664	27.62	180	1.065	3.114	18.44	200	1.184	19	0.112	-	-
1-SRO Office-ext	1-SRO Office-ext	4.271	0.191	4.461	31.43	178	1.256	2.647	18.65	169	1.192	17	0.119	-	-
4-Acct Intern	4-Acct Intern	4.278	0.184	4.462	27.35	177	1.085	1.939	11.88	118	0.722	18	0.113	-	-
4-Acct Rec	4-Acct Rec	5.102	0.184	5.286	32.37	215	1.315	2.394	14.66	150	0.917	18	0.113	-	-
4-Bus Mgr Office	4-Bus Mgr Office	5.106	0.184	5.290	32.39	215	1.316	2.397	14.68	150	0.919	18	0.113	-	-
4-Conference-1	4-Conference-1	9.701	0.980	10.681	38.07	385	1.372	4.015	14.31	224	0.798	59	0.209	-	-
4-HR Office	4-HR Office	5.234	0.185	5.419	31.56	220	1.282	2.460	14.33	154	0.896	19	0.111	-	-
4-Offices Corridor-1	4-Offices Corridor-1	1.960	0.164	2.124	9.29	72	0.317	0.964	4.22	51	0.222	17	0.075	-	-
4-Offices Corridor-2	4-Offices Corridor-2	1.632	0.137	1.768	9.38	60	0.321	0.798	4.23	42	0.223	14	0.075	-	-
4-SUP Assist-2	4-SUP Assist-2	4.728	0.179	4.908	35.47	199	1.442	2.273	16.42	143	1.035	17	0.120	-	-

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4-SUP Office	4-SUP Office	7.346	0.205	7.551	26.85	308	1.097	3.365	11.96	209	0.744	27	0.097	-	-
		7.346	0.205	7.551	26.85	308	1.097	3.365	11.96	209	0.744	-	-	-	-
4-Treasurer office	4-Treasurer office	5.158	0.185	5.343	31.90	217	1.295	2.429	14.50	152	0.907	19	0.112	-	-
		5.158	0.185	5.343	31.90	217	1.295	2.429	14.50	152	0.907	-	-	-	-
1-SPED Offices-ext 1	1-SPED Offices-ext 1	8.293	0.486	8.779	26.69	342	1.039	5.153	15.67	325	0.989	37	0.113	-	-
		8.293	0.486	8.779	26.69	342	1.039	5.153	15.67	325	0.989	-	-	-	-
1-SPED Offices-ext 2	1-SPED Offices-ext 2	8.806	0.628	9.434	28.11	365	1.087	5.348	15.94	338	1.008	38	0.112	-	-
		8.806	0.628	9.434	28.11	365	1.087	5.348	15.94	338	1.008	-	-	-	-
4-SUP Assist-1	4-SUP Assist-1	9.532	0.229	9.761	23.38	398	0.953	4.569	10.94	284	0.680	38	0.090	-	-
		9.532	0.229	9.761	23.38	398	0.953	4.569	10.94	284	0.680	-	-	-	-



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System		35.546	0.000	35.546	13.53	1,324	0.504	5.411	2.06	104	0.040	382	0.145	-	-
2-Academic Progrm	2-Academic Progrm	2.609	0.333	2.942	17.51	94	0.559	0.316	1.88	0	0.000	31	0.187	-	-
2-AP 1	2-AP 1	2.609	0.333	2.942	17.51	94	0.559	0.316	1.88	0	0.000	-	-	-	-
		2.553	0.284	2.837	16.10	103	0.585	0.394	2.24	10	0.055	19	0.110	-	-
2-Department Head Offices	2-Department Head Offices	2.553	0.284	2.837	16.10	103	0.585	0.394	2.24	10	0.055	-	-	-	-
		16.314	1.163	17.477	12.71	674	0.490	2.755	2.00	94	0.068	109	0.080	-	-
2-Records	2-Records	16.314	1.163	17.477	12.71	674	0.490	2.755	2.00	94	0.068	-	-	-	-
		1.987	0.188	2.175	8.49	57	0.222	0.529	2.07	1	0.002	38	0.150	-	-
2-Suspension Rm	2-Suspension Rm	1.987	0.188	2.175	8.49	57	0.222	0.529	2.07	1	0.002	-	-	-	-
		6.658	1.213	7.872	21.52	208	0.568	0.728	1.99	0	0.000	112	0.306	-	-
2-Department Conference	2-Department Conference	6.658	1.213	7.872	21.52	208	0.568	0.728	1.99	0	0.000	-	-	-	-
		5.424	1.449	6.873	24.09	189	0.662	0.688	2.41	0	0.000	71	0.250	-	-
2-Department Conference	2-Department Conference	5.424	1.449	6.873	24.09	189	0.662	0.688	2.41	0	0.000	-	-	-	-

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System		67.452	0.000	67.452	22.21	1,942	0.639	35.584	11.72	1,332	0.439	1,715	0.565	-	-
1-CR Storage-1	1-CR Storage-1	1.119	0.100	1.219	11.93	38	0.375	1.007	9.85	59	0.577	15	0.150	-	-
1-Childhood Edu CR-1	1-Childhood Edu CR-1	15.601	2.914	18.515	34.29	474	0.877	5.532	10.24	134	0.247	275	0.509	-	-
1-Childhood Edu TLTs-1	1-Childhood Edu TLTs-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	70	0.771	-	-
1-Creative Play	1-Creative Play	14.079	2.811	16.890	51.44	289	0.881	7.151	21.78	142	0.431	386	1.177	-	-
1-Dressing Rm TLTs-1	1-Dressing Rm TLTs-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	140	0.836	-	-
1-Dressing Rm-1	1-Dressing Rm-1	5.727	0.121	5.847	22.46	255	0.981	4.482	17.22	311	1.196	20	0.075	-	-
1-Dressing Rm-2	1-Dressing Rm-2	6.423	0.147	6.570	25.24	289	1.109	5.305	20.38	372	1.430	20	0.075	-	-
1-Early Childhood Education	1-Early Childhood Education	15.144	2.966	18.110	30.01	278	0.461	7.010	11.62	69	0.115	448	0.743	-	-
1-Early Children Edu Lckers-1	1-Early Children Edu Lckers-1	6.419	1.785	8.204	30.09	240	0.880	1.586	5.82	49	0.180	68	0.250	-	-
1-Early Children Edu TLTS-1	1-Early Children Edu TLTS-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	210	1.036	-	-
1-Kitchen/Stor-1	1-Kitchen/Stor-1	2.941	0.118	3.060	14.62	78	0.375	3.511	16.78	196	0.939	63	0.300	-	-

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System		705.439	0.000	705.439	15.76	19,729	0.441	251.155	5.61	40,117	0.896	19,456	0.435	-	-
1-Carpentry TLT	1-Carpentry TLT	0.891	0.090	0.982	10.69	27	0.297	0.555	6.04	68	0.740	21	0.225	-	-
1-Corridor-int 7	1-Corridor-int 7	9.680	0.195	9.875	16.50	409	0.683	10.382	17.35	789	1.318	45	0.075	-	-
1-Corridor TLTS-int 1	1-Corridor TLTS-int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Corridor-int 2	1-Corridor-int 2	16.342	2.033	18.376	9.35	636	0.324	11.606	5.90	1,009	0.513	147	0.075	-	-
1-School Store	1-School Store	6.161	1.496	7.657	15.60	192	0.391	2.819	5.74	355	0.723	120	0.244	-	-
1-Carpentry Classroom	1-Carpentry Classroom	19.537	3.688	23.224	22.90	660	0.651	7.265	7.16	917	0.904	310	0.306	-	-
1-Plumb-Compressed Air	1-Plumb-Compressed Air	0.959	0.000	0.959	6.14	9	0.058	0.000	0.00	0	0.000	12	0.075	-	-
1-Plumbing & Pipefit Classroom	1-Plumbing & Pipefit Classroom	19.486	3.678	23.163	23.05	658	0.655	7.172	7.14	909	0.905	310	0.308	-	-
1-Plumbing & Pipefit TLT	1-Plumbing & Pipefit TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
2-Career Center Storage	2-Career Center Storage	1.333	0.131	1.464	8.22	41	0.230	0.355	1.99	60	0.336	27	0.150	-	-
2-Classroom-E10	2-Classroom-E10	23.873	2.963	26.836	29.72	865	0.957	7.715	8.54	938	1.038	302	0.335	-	-
2-Classroom-E8	2-Classroom-E8	23.795	2.963	26.758	29.63	861	0.953	7.606	8.42	930	1.030	302	0.335	-	-

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2-Classroom-E9		24.056	2.986	27.041	29.67	872	0.957	7.647	8.39	934	1.024	303	0.332	-	-
	2-Classroom-E9	24.056	2.986	27.041	29.67	872	0.957	7.647	8.39	934	1.024	-	-	-	-
2-Corridor-int 2		21.287	2.200	23.487	7.83	804	0.268	6.390	2.13	744	0.248	225	0.075	-	-
	2-Corridor-int 2	21.287	2.200	23.487	7.83	804	0.268	6.390	2.13	744	0.248	-	-	-	-
2-Language Learning		16.997	3.337	20.333	20.96	546	0.563	1.788	1.84	527	0.544	307	0.317	-	-
	2-Language Learning	16.997	3.337	20.333	20.96	546	0.563	1.788	1.84	527	0.544	-	-	-	-
2-SCI Lab-1		22.261	5.010	27.270	17.63	0	0.000	6.803	4.40	2,501	1.617	661	0.427	-	-
	2-SCI Lab-1	22.261	5.010	27.270	17.63	0	0.000	6.803	4.40	2,501	1.617	-	-	-	-
2-SCI Lab-2		22.481	4.483	26.964	17.57	0	0.000	7.845	5.11	2,558	1.667	658	0.429	-	-
	2-SCI Lab-2	22.481	4.483	26.964	17.57	0	0.000	7.845	5.11	2,558	1.667	-	-	-	-
2-SCI Prep-1		5.556	0.779	6.336	14.37	0	0.000	0.941	2.13	643	1.458	136	0.308	-	-
	2-SCI Prep-1	5.556	0.779	6.336	14.37	0	0.000	0.941	2.13	643	1.458	-	-	-	-
2-Storage-int-1		0.479	0.047	0.526	7.33	14	0.193	0.185	2.58	27	0.377	11	0.150	-	-
	2-Storage-int-1	0.479	0.047	0.526	7.33	14	0.193	0.185	2.58	27	0.377	-	-	-	-
3-Custodial-int 2		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	3-Custodial-int 2	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
3-Bio CR-ext		22.231	2.767	24.997	31.14	795	0.991	6.529	8.13	844	1.052	295	0.367	-	-
	3-Bio CR-ext	22.231	2.767	24.997	31.14	795	0.991	6.529	8.13	844	1.052	-	-	-	-
3-Classroom-E10		24.015	2.963	26.978	29.88	871	0.965	7.231	8.01	903	1.001	302	0.335	-	-
	3-Classroom-E10	24.015	2.963	26.978	29.88	871	0.965	7.231	8.01	903	1.001	-	-	-	-
3-Classroom-E8		23.941	2.963	26.904	29.79	868	0.961	7.122	7.89	896	0.992	302	0.335	-	-
	3-Classroom-E8	23.941	2.963	26.904	29.79	868	0.961	7.122	7.89	896	0.992	-	-	-	-
3-Classroom-E9		24.124	2.986	27.110	29.74	876	0.961	7.158	7.85	899	0.987	303	0.332	-	-
	3-Classroom-E9	24.124	2.986	27.110	29.74	876	0.961	7.158	7.85	899	0.987	-	-	-	-

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3-Corridor-1		14.955	1.584	16.539	7.66	562	0.260	4.118	1.91	501	0.232	162	0.075	-	-
	3-Corridor-1	14.955	1.584	16.539	7.66	562	0.260	4.118	1.91	501	0.232	-	-	-	-
3-Digital Learning		23.884	2.669	26.552	31.49	772	0.915	6.501	7.71	1,015	1.204	426	0.506	-	-
	3-Digital Learning	23.884	2.669	26.552	31.49	772	0.915	6.501	7.71	1,015	1.204	-	-	-	-
3-Electric LS-1		0.469	0.000	0.469	7.44	5	0.085	0.000	0.00	0	0.000	5	0.075	-	-
	3-Electric LS-1	0.469	0.000	0.469	7.44	5	0.085	0.000	0.00	0	0.000	-	-	-	-
3-Electric Rm-1		0.514	0.000	0.514	6.61	5	0.068	0.000	0.00	0	0.000	6	0.075	-	-
	3-Electric Rm-1	0.514	0.000	0.514	6.61	5	0.068	0.000	0.00	0	0.000	-	-	-	-
3-Health Assist CR-ext		22.260	2.768	25.028	30.87	796	0.982	6.415	7.91	837	1.033	295	0.364	-	-
	3-Health Assist CR-ext	22.260	2.768	25.028	30.87	796	0.982	6.415	7.91	837	1.033	-	-	-	-
3-IDF-1		0.449	0.000	0.449	6.89	5	0.073	0.000	0.00	0	0.000	5	0.075	-	-
	3-IDF-1	0.449	0.000	0.449	6.89	5	0.073	0.000	0.00	0	0.000	-	-	-	-
3-SCI Lab-ext 1		22.800	4.900	27.700	17.91	0	0.000	7.881	5.10	2,577	1.666	661	0.427	-	-
	3-SCI Lab-ext 1	22.800	4.900	27.700	17.91	0	0.000	7.881	5.10	2,577	1.666	-	-	-	-
3-SCI Lab-ext 2		22.498	4.483	26.981	17.58	0	0.000	7.817	5.09	2,556	1.666	658	0.429	-	-
	3-SCI Lab-ext 2	22.498	4.483	26.981	17.58	0	0.000	7.817	5.09	2,556	1.666	-	-	-	-
3-SCI Prep 1		5.558	0.779	6.338	14.37	0	0.000	0.930	2.11	642	1.456	136	0.308	-	-
	3-SCI Prep 1	5.558	0.779	6.338	14.37	0	0.000	0.930	2.11	642	1.456	-	-	-	-
3-SPED Learning Center-ext 1		25.566	2.785	28.351	31.33	942	1.041	9.557	10.56	1,067	1.179	302	0.334	-	-
	3-SPED Learning Center-ext 1	25.566	2.785	28.351	31.33	942	1.041	9.557	10.56	1,067	1.179	-	-	-	-
3-SPED Small Group-ext 1		13.232	1.338	14.570	26.25	536	0.966	4.510	8.12	437	0.787	92	0.165	-	-
	3-SPED Small Group-ext 1	13.232	1.338	14.570	26.25	536	0.966	4.510	8.12	437	0.787	-	-	-	-
3-SPED Small Group-ext 2		13.044	1.337	14.380	26.28	528	0.965	4.429	8.09	430	0.787	91	0.166	-	-
	3-SPED Small Group-ext 2	13.044	1.337	14.380	26.28	528	0.965	4.429	8.09	430	0.787	-	-	-	-
3-Storage-1		3.915	0.384	4.299	8.21	120	0.229	1.133	2.16	182	0.348	79	0.150	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
3-TLTs-int	3-Storage-1	3.915	0.384	4.299	8.21	120	0.229	1.133	2.16	182	0.348	-	-	-	-
	3-TLTs-int	2.356	0.000	2.356	3.26	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
3-Corridor-2	3-TLTs-int	2.356	0.000	2.356	3.26	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	3-Corridor-2	16.079	1.600	17.678	8.10	612	0.281	4.320	1.98	518	0.237	164	0.075	-	-
3-SPED Tutorial-int	3-Corridor-2	16.079	1.600	17.678	8.10	612	0.281	4.320	1.98	518	0.237	-	-	-	-
	3-SPED Tutorial-int	2.674	0.335	3.008	17.70	99	0.580	0.406	2.39	70	0.410	31	0.185	-	-
4-Custodial- int 1	3-SPED Tutorial-int	2.674	0.335	3.008	17.70	99	0.580	0.406	2.39	70	0.410	-	-	-	-
	4-Custodial- int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
4-Classroom-E10	4-Custodial- int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	4-Classroom-E10	24.227	2.982	27.209	30.13	881	0.975	9.095	10.07	1,035	1.146	302	0.335	-	-
4-Classroom-E8	4-Classroom-E10	24.227	2.982	27.209	30.13	881	0.975	9.095	10.07	1,035	1.146	-	-	-	-
	4-Classroom-E8	24.093	2.982	27.075	29.98	875	0.969	8.998	9.96	1,028	1.138	302	0.335	-	-
4-Classroom-E9	4-Classroom-E8	24.093	2.982	27.075	29.98	875	0.969	8.998	9.96	1,028	1.138	-	-	-	-
	4-Classroom-E9	24.349	2.986	27.335	29.99	886	0.972	9.052	9.93	1,032	1.133	303	0.332	-	-
4-Corridor-ext 1	4-Classroom-E9	24.349	2.986	27.335	29.99	886	0.972	9.052	9.93	1,032	1.133	-	-	-	-
	4-Corridor-ext 1	7.178	0.081	7.258	15.88	302	0.661	4.143	9.06	336	0.735	34	0.075	-	-
4-Corridor-int-1	4-Corridor-ext 1	7.178	0.081	7.258	15.88	302	0.661	4.143	9.06	336	0.735	-	-	-	-
	4-Corridor-int-1	21.833	1.987	23.820	8.79	845	0.312	11.299	4.17	1,060	0.391	203	0.075	-	-
4-Electric LS-1	4-Corridor-int-1	21.833	1.987	23.820	8.79	845	0.312	11.299	4.17	1,060	0.391	-	-	-	-
	4-Electric LS-1	0.559	0.000	0.559	8.33	7	0.103	0.000	0.00	0	0.000	5	0.075	-	-
4-Electric Rm-1	4-Electric LS-1	0.559	0.000	0.559	8.33	7	0.103	0.000	0.00	0	0.000	-	-	-	-
	4-Electric Rm-1	0.599	0.000	0.599	7.52	7	0.086	0.000	0.00	0	0.000	6	0.075	-	-
4-IDF-int 1	4-Electric Rm-1	0.599	0.000	0.599	7.52	7	0.086	0.000	0.00	0	0.000	-	-	-	-
	4-IDF-int 1	0.500	0.000	0.500	7.72	6	0.090	0.000	0.00	0	0.000	5	0.075	-	-
	4-IDF-int 1	0.500	0.000	0.500	7.72	6	0.090	0.000	0.00	0	0.000	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
4-SCI Lab-1	4-SCI Lab-1	25.264	4.900	30.163	19.50	0	0.000	11.218	7.25	2,812	1.818	661	0.427	-	-
		25.264	4.900	30.163	19.50	0	0.000	11.218	7.25	2,812	1.818	-	-	-	-
4-SCI Lab-2	4-SCI Lab-2	24.620	4.483	29.103	18.97	0	0.000	11.153	7.27	2,791	1.819	658	0.429	-	-
		24.620	4.483	29.103	18.97	0	0.000	11.153	7.27	2,791	1.819	-	-	-	-
4-SCI Prep-1	4-SCI Prep-1	5.989	0.779	6.768	15.35	0	0.000	1.898	4.30	710	1.610	136	0.308	-	-
		5.989	0.779	6.768	15.35	0	0.000	1.898	4.30	710	1.610	-	-	-	-
4-SPED Tutorial	4-SPED Tutorial	2.823	0.335	3.158	18.58	105	0.620	0.810	4.77	98	0.577	31	0.185	-	-
		2.823	0.335	3.158	18.58	105	0.620	0.810	4.77	98	0.577	-	-	-	-
4-Storage-1	4-Storage-1	4.387	0.378	4.765	9.24	142	0.276	2.361	4.58	267	0.518	77	0.150	-	-
		4.387	0.378	4.765	9.24	142	0.276	2.361	4.58	267	0.518	-	-	-	-
4-SPED Small Group	4-SPED Small Group	16.282	0.514	16.796	31.48	686	1.286	7.997	14.99	664	1.244	78	0.145	-	-
		16.282	0.514	16.796	31.48	686	1.286	7.997	14.99	664	1.244	-	-	-	-
4-SUP Assist TLT-1	4-SUP Assist TLT-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
4-TLT-int 2	4-TLT-int 2	2.998	0.000	2.998	4.15	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
		2.998	0.000	2.998	4.15	0	0.000	0.000	0.00	0	0.000	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		1,260.279	0.000	1,260.279	18.62	42,375	0.626	403.435	5.96	46,590	0.688	21,062	0.311	-	-
2-Mechanical Rm- Custodial	2-Mechanical Rm- Custodial	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	96	1.000	-	-
	2-Mechanical Rm- Custodial	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Department Head TLT	2-Department Head TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	2-Department Head TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Buisness Office Tech	2-Buisness Office Tech	8.248	1.227	9.475	17.97	291	0.552	0.985	1.87	175	0.332	115	0.217	-	-
	2-Buisness Office Tech	8.248	1.227	9.475	17.97	291	0.552	0.985	1.87	175	0.332	-	-	-	-
2-Buisness Office Tech CR	2-Buisness Office Tech CR	13.035	3.065	16.100	26.82	386	0.643	1.093	1.82	335	0.558	279	0.465	-	-
	2-Buisness Office Tech CR	13.035	3.065	16.100	26.82	386	0.643	1.093	1.82	335	0.558	-	-	-	-
2-Buisness Office Tech Office	2-Buisness Office Tech Office	2.370	0.280	2.650	15.53	94	0.551	0.308	1.80	39	0.230	19	0.112	-	-
	2-Buisness Office Tech Office	2.370	0.280	2.650	15.53	94	0.551	0.308	1.80	39	0.230	-	-	-	-
2-Buisness Office Tech Storage	2-Buisness Office Tech Storage	1.356	0.120	1.477	9.00	44	0.266	0.317	1.94	45	0.275	25	0.150	-	-
	2-Buisness Office Tech Storage	1.356	0.120	1.477	9.00	44	0.266	0.317	1.94	45	0.275	-	-	-	-
2-Buisness Office Tech TLT	2-Buisness Office Tech TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	2-Buisness Office Tech TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Computer Lab 5	2-Computer Lab 5	20.853	1.610	22.463	29.79	746	0.990	5.613	7.44	649	0.861	276	0.366	-	-
	2-Computer Lab 5	20.853	1.610	22.463	29.79	746	0.990	5.613	7.44	649	0.861	-	-	-	-
2-Computer Lab 6	2-Computer Lab 6	20.764	1.610	22.374	29.67	742	0.984	5.550	7.36	645	0.855	276	0.366	-	-
	2-Computer Lab 6	20.764	1.610	22.374	29.67	742	0.984	5.550	7.36	645	0.855	-	-	-	-
2-Computer Lab 7	2-Computer Lab 7	20.214	1.612	21.826	28.70	716	0.942	5.289	6.96	627	0.825	277	0.364	-	-
	2-Computer Lab 7	20.214	1.612	21.826	28.70	716	0.942	5.289	6.96	627	0.825	-	-	-	-
2-Computer Lab 8	2-Computer Lab 8	19.998	1.600	21.598	29.85	711	0.982	5.867	8.11	663	0.916	271	0.375	-	-
	2-Computer Lab 8	19.998	1.600	21.598	29.85	711	0.982	5.867	8.11	663	0.916	-	-	-	-
2-Computer Lab-int 2	2-Computer Lab-int 2	11.619	1.821	13.440	21.62	339	0.546	1.140	1.83	316	0.509	256	0.411	-	-
	2-Computer Lab-int 2	11.619	1.821	13.440	21.62	339	0.546	1.140	1.83	316	0.509	-	-	-	-

System load and airflow are the coincident peak for constituent zones, as simulated.

Zone loads for cooling and heating are each coincident peak values with respect to constituent rooms without oversizing factors applied.

Zone airflows are design values that include oversizing and other influences as set for individual zones in System Parameters.

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
2-Computer Lab-int 3		10.143	1.747	11.890	22.81	283	0.543	0.950	1.82	289	0.554	241	0.462	-	-
	2-Computer Lab-int 3	10.143	1.747	11.890	22.81	283	0.543	0.950	1.82	289	0.554	-	-	-	-
2-Computer Lab-int 4		14.316	1.810	16.126	26.55	464	0.764	1.110	1.83	312	0.514	254	0.417	-	-
	2-Computer Lab-int 4	14.316	1.810	16.126	26.55	464	0.764	1.110	1.83	312	0.514	-	-	-	-
2-Computer Lab-ext 2		18.795	1.561	20.356	33.79	669	1.111	6.503	10.80	691	1.147	253	0.420	-	-
	2-Computer Lab-ext 2	18.795	1.561	20.356	33.79	669	1.111	6.503	10.80	691	1.147	-	-	-	-
2-Computer Lab-ext 3		16.783	1.537	18.320	34.57	586	1.105	5.697	10.75	624	1.177	242	0.457	-	-
	2-Computer Lab-ext 3	16.783	1.537	18.320	34.57	586	1.105	5.697	10.75	624	1.177	-	-	-	-
2-Computer Lab-ext 4		20.039	1.532	21.571	41.91	736	1.430	5.995	11.65	643	1.249	240	0.466	-	-
	2-Computer Lab-ext 4	20.039	1.532	21.571	41.91	736	1.430	5.995	11.65	643	1.249	-	-	-	-
2-Corridor-ext 1		31.374	0.652	32.026	19.43	1,341	0.814	18.462	11.20	1,412	0.857	124	0.075	-	-
	2-Corridor-ext 1	31.374	0.652	32.026	19.43	1,341	0.814	18.462	11.20	1,412	0.857	-	-	-	-
2-Corridor-int 3		11.190	1.112	12.302	8.11	426	0.281	2.997	1.98	316	0.208	114	0.075	-	-
	2-Corridor-int 3	11.190	1.112	12.302	8.11	426	0.281	2.997	1.98	316	0.208	-	-	-	-
2-Design & Visual Comm CR		13.136	3.076	16.212	26.36	390	0.634	1.124	1.83	338	0.550	280	0.456	-	-
	2-Design & Visual Comm CR	13.136	3.076	16.212	26.36	390	0.634	1.124	1.83	338	0.550	-	-	-	-
2-Design & Visual Comm Storage		1.328	0.137	1.465	7.72	39	0.207	0.341	1.80	50	0.265	28	0.150	-	-
	2-Design & Visual Comm Storage	1.328	0.137	1.465	7.72	39	0.207	0.341	1.80	50	0.265	-	-	-	-
2-Design/Visual Comm intr		20.084	2.345	22.428	15.17	750	0.507	2.720	1.84	397	0.269	223	0.151	-	-
	2-Design/Visual Comm intr	20.084	2.345	22.428	15.17	750	0.507	2.720	1.84	397	0.269	-	-	-	-
2-Design/Visual Comm Perim		18.543	1.461	20.004	32.39	728	1.179	6.965	11.28	636	1.030	159	0.257	-	-
	2-Design/Visual Comm Perim	18.543	1.461	20.004	32.39	728	1.179	6.965	11.28	636	1.030	-	-	-	-
2-Drafting and Design CR		13.382	3.096	16.478	25.67	400	0.623	1.172	1.83	343	0.535	283	0.440	-	-
	2-Drafting and Design CR	13.382	3.096	16.478	25.67	400	0.623	1.172	1.83	343	0.535	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
2-Drafting and Design Int	2-Drafting and Design Int	16.685	2.126	18.811	15.93	612	0.518	2.173	1.84	338	0.287	201	0.170	-	-
	2-Drafting and Design Int	16.685	2.126	18.811	15.93	612	0.518	2.173	1.84	338	0.287	-	-	-	-
2-Drafting and Design Ext	2-Drafting and Design Ext	13.548	1.429	14.977	35.07	511	1.196	4.775	11.18	469	1.099	145	0.338	-	-
	2-Drafting and Design Ext	13.548	1.429	14.977	35.07	511	1.196	4.775	11.18	469	1.099	-	-	-	-
2-Drafting and Design Storage	2-Drafting and Design Storage	0.779	0.062	0.841	10.01	26	0.312	0.173	2.06	24	0.283	13	0.150	-	-
	2-Drafting and Design Storage	0.779	0.062	0.841	10.01	26	0.312	0.173	2.06	24	0.283	-	-	-	-
2-Drafting and Design Storage 2	2-Drafting and Design Storage 2	2.209	0.216	2.425	8.24	68	0.230	0.539	1.83	79	0.267	44	0.150	-	-
	2-Drafting and Design Storage 2	2.209	0.216	2.425	8.24	68	0.230	0.539	1.83	79	0.267	-	-	-	-
2-Drafting and Design TLT	2-Drafting and Design TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	2-Drafting and Design TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Marketing	2-Marketing	12.119	3.006	15.124	29.14	349	0.672	0.953	1.84	319	0.615	273	0.527	-	-
	2-Marketing	12.119	3.006	15.124	29.14	349	0.672	0.953	1.84	319	0.615	-	-	-	-
2-Marketing CR	2-Marketing CR	12.239	3.020	15.260	28.32	353	0.656	1.050	1.95	328	0.608	275	0.510	-	-
	2-Marketing CR	12.239	3.020	15.260	28.32	353	0.656	1.050	1.95	328	0.608	-	-	-	-
2-Marketing Office	2-Marketing Office	2.418	0.281	2.699	15.69	96	0.559	0.324	1.88	40	0.235	19	0.111	-	-
	2-Marketing Office	2.418	0.281	2.699	15.69	96	0.559	0.324	1.88	40	0.235	-	-	-	-
2-Marketing Storage	2-Marketing Storage	1.494	0.137	1.631	8.73	47	0.253	0.333	1.78	49	0.264	28	0.150	-	-
	2-Marketing Storage	1.494	0.137	1.631	8.73	47	0.253	0.333	1.78	49	0.264	-	-	-	-
2-Marketing TLT	2-Marketing TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	2-Marketing TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Mechanical Rm- Electric LS	2-Mechanical Rm- Electric LS	0.616	0.000	0.616	7.57	7	0.087	0.000	0.00	0	0.000	6	0.075	-	-
	2-Mechanical Rm- Electric LS	0.616	0.000	0.616	7.57	7	0.087	0.000	0.00	0	0.000	-	-	-	-
2-Mechanical Rm- Electric Rm	2-Mechanical Rm- Electric Rm	0.781	0.000	0.781	7.90	9	0.094	0.000	0.00	0	0.000	7	0.075	-	-
	2-Mechanical Rm- Electric Rm	0.781	0.000	0.781	7.90	9	0.094	0.000	0.00	0	0.000	-	-	-	-

2-Mechanical Rm- Intr		6.150	0.000	6.150	8.40	76	0.104	0.000	0.00	0	0.000	55	0.075	-	-
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Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
2-Mechanical Rm-ext 1	2-Mechanical Rm- Intr	6.150	0.000	6.150	8.40	76	0.104	0.000	0.00	0	0.000	-	-	-	-
	2-Mechanical Rm-ext 1	19.693	0.000	19.693	27.94	353	0.501	0.000	0.00	0	0.000	53	0.075	-	-
2-Mechanical Rm-ext 2	2-Mechanical Rm-ext 1	19.693	0.000	19.693	27.94	353	0.501	0.000	0.00	0	0.000	-	-	-	-
	2-Mechanical Rm-ext 2	6.054	0.000	6.054	9.52	81	0.127	0.000	0.00	0	0.000	48	0.075	-	-
2-Screen Printing	2-Mechanical Rm-ext 2	6.054	0.000	6.054	9.52	81	0.127	0.000	0.00	0	0.000	-	-	-	-
	2-Screen Printing	5.337	0.692	6.029	16.27	195	0.526	0.672	1.81	108	0.290	65	0.176	-	-
2-Screen Printing TLT	2-Screen Printing	5.337	0.692	6.029	16.27	195	0.526	0.672	1.81	108	0.290	-	-	-	-
	2-Screen Printing TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
2-Computer Lab-int 1	2-Screen Printing TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	2-Computer Lab-int 1	10.697	1.778	12.475	22.16	304	0.540	1.044	1.85	301	0.535	247	0.439	-	-
2-Computer Lab-ext 1	2-Computer Lab-int 1	10.697	1.778	12.475	22.16	304	0.540	1.044	1.85	301	0.535	-	-	-	-
	2-Computer Lab-ext 1	14.440	1.506	15.946	36.69	489	1.126	4.841	11.14	551	1.267	228	0.524	-	-
2-Guidance Offc-1	2-Computer Lab-ext 1	14.440	1.506	15.946	36.69	489	1.126	4.841	11.14	551	1.267	-	-	-	-
	2-Guidance Offc-1	5.534	0.210	5.744	33.71	239	1.401	2.866	16.82	219	1.286	19	0.112	-	-
2-Guidance Offc-2	2-Guidance Offc-1	5.534	0.210	5.744	33.71	239	1.401	2.866	16.82	219	1.286	-	-	-	-
	2-Guidance Offc-2	5.835	0.213	6.048	33.75	252	1.406	2.947	16.45	225	1.258	20	0.110	-	-
2-VOC Dean	2-Guidance Offc-2	5.835	0.213	6.048	33.75	252	1.406	2.947	16.45	225	1.258	-	-	-	-
	2-VOC Dean	5.839	0.213	6.052	33.78	252	1.407	2.947	16.45	225	1.258	20	0.110	-	-
2-Guidance Offc-3	2-VOC Dean	5.839	0.213	6.052	33.78	252	1.407	2.947	16.45	225	1.258	-	-	-	-
	2-Guidance Offc-3	6.025	0.215	6.241	33.72	260	1.407	3.042	16.44	233	1.256	20	0.109	-	-
2-SPED Tutorial	2-Guidance Offc-3	6.025	0.215	6.241	33.72	260	1.407	3.042	16.44	233	1.256	-	-	-	-
	2-SPED Tutorial	11.314	2.692	14.006	82.21	332	1.947	2.866	16.82	430	2.522	247	1.451	-	-
2-Mechanical Rm- IDF	2-SPED Tutorial	11.314	2.692	14.006	82.21	332	1.947	2.866	16.82	430	2.522	-	-	-	-
	2-Mechanical Rm- IDF	0.595	0.000	0.595	7.06	6	0.077	0.000	0.00	0	0.000	6	0.075	-	-
	2-Mechanical Rm- IDF	0.595	0.000	0.595	7.06	6	0.077	0.000	0.00	0	0.000	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
2-Design & Visual Comm Office	2-Design & Visual Comm Office	2.104	0.261	2.365	16.38	83	0.577	0.268	1.86	35	0.240	17	0.118	-	-
	2-Design & Visual Comm Office	2.104	0.261	2.365	16.38	83	0.577	0.268	1.86	35	0.240	-	-	-	-
2-Drafting and Design Office	2-Drafting and Design Office	2.030	0.259	2.288	16.14	80	0.565	0.269	1.90	35	0.244	17	0.119	-	-
	2-Drafting and Design Office	2.030	0.259	2.288	16.14	80	0.565	0.269	1.90	35	0.244	-	-	-	-
3-Biotechnology Chem Storage	3-Biotechnology Chem Storage	0.000	0.000	0.000	0.00	0	0.000	0.278	1.86	227	1.515	0	0.000	-	-
	3-Biotechnology Chem Storage	0.000	0.000	0.000	0.00	0	0.000	0.278	1.86	227	1.515	-	-	-	-
3-Biotechnology Prep-2	3-Biotechnology Prep-2	13.445	1.275	14.720	21.65	104	0.154	4.797	7.06	965	1.419	238	0.350	-	-
	3-Biotechnology Prep-2	13.445	1.275	14.720	21.65	104	0.154	4.797	7.06	965	1.419	-	-	-	-
3-Biotechnology Office	3-Biotechnology Office	2.594	0.295	2.890	15.08	103	0.538	0.366	1.91	45	0.233	21	0.108	-	-
	3-Biotechnology Office	2.594	0.295	2.890	15.08	103	0.538	0.366	1.91	45	0.233	-	-	-	-
3-Biotechnology Prep	3-Biotechnology Prep	2.783	0.459	3.242	16.13	0	0.000	0.356	1.77	211	1.048	70	0.350	-	-
	3-Biotechnology Prep	2.783	0.459	3.242	16.13	0	0.000	0.356	1.77	211	1.048	-	-	-	-
3-Biotechnology Storage	3-Biotechnology Storage	1.192	0.119	1.312	7.93	36	0.217	0.293	1.77	44	0.263	25	0.150	-	-
	3-Biotechnology Storage	1.192	0.119	1.312	7.93	36	0.217	0.293	1.77	44	0.263	-	-	-	-
3-Biotechnology TLT	3-Biotechnology TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	3-Biotechnology TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
3-Corridor-ext 2	3-Corridor-ext 2	35.630	0.658	36.288	21.84	1,535	0.924	18.598	11.19	1,423	0.856	125	0.075	-	-
	3-Corridor-ext 2	35.630	0.658	36.288	21.84	1,535	0.924	18.598	11.19	1,423	0.856	-	-	-	-
3-Health Assist int-1	3-Health Assist int-1	19.224	2.313	21.537	15.00	713	0.497	2.614	1.82	387	0.270	220	0.153	-	-
	3-Health Assist int-1	19.224	2.313	21.537	15.00	713	0.497	2.614	1.82	387	0.270	-	-	-	-
3-Health Assist int-2	3-Health Assist int-2	18.007	2.231	20.238	15.28	664	0.502	2.410	1.82	365	0.276	212	0.160	-	-
	3-Health Assist int-2	18.007	2.231	20.238	15.28	664	0.502	2.410	1.82	365	0.276	-	-	-	-
3-Health Assist Linen	3-Health Assist Linen	1.357	0.060	1.417	17.28	1	0.006	0.164	2.01	87	1.064	12	0.150	-	-
	3-Health Assist Linen	1.357	0.060	1.417	17.28	1	0.006	0.164	2.01	87	1.064	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
3-Health Assist Mock Apt	3-Health Assist Mock Apt	11.457	0.379	11.836	22.77	480	0.924	4.386	8.44	362	0.696	58	0.111	-	-
	3-Health Assist Mock Apt	11.457	0.379	11.836	22.77	480	0.924	4.386	8.44	362	0.696	-	-	-	-
3-Health Assist Observ	3-Health Assist Observ	7.101	2.696	9.797	100.61	143	1.471	0.185	1.90	236	2.425	242	2.482	-	-
	3-Health Assist Observ	7.101	2.696	9.797	100.61	143	1.471	0.185	1.90	236	2.425	-	-	-	-
3-Health Assist Office	3-Health Assist Office	2.251	0.273	2.524	15.64	89	0.552	0.317	1.96	39	0.243	18	0.114	-	-
	3-Health Assist Office	2.251	0.273	2.524	15.64	89	0.552	0.317	1.96	39	0.243	-	-	-	-
3-Health Assist SIM	3-Health Assist SIM	2.511	0.328	2.839	17.58	92	0.567	0.305	1.89	50	0.309	31	0.191	-	-
	3-Health Assist SIM	2.511	0.328	2.839	17.58	92	0.567	0.305	1.89	50	0.309	-	-	-	-
3-Health Assist Storage	3-Health Assist Storage	1.126	0.106	1.232	8.38	35	0.238	0.290	1.97	41	0.277	22	0.150	-	-
	3-Health Assist Storage	1.126	0.106	1.232	8.38	35	0.238	0.290	1.97	41	0.277	-	-	-	-
3-Health Assist Storage	3-Health Assist Storage	0.597	0.060	0.658	7.15	17	0.184	0.178	1.93	25	0.274	14	0.150	-	-
	3-Health Assist Storage	0.597	0.060	0.658	7.15	17	0.184	0.178	1.93	25	0.274	-	-	-	-
3-Health Assist TLT	3-Health Assist TLT	0.000	0.000	0.000	0.00	0	0.000	0.167	2.04	76	0.932	0	0.000	-	-
	3-Health Assist TLT	0.000	0.000	0.000	0.00	0	0.000	0.167	2.04	76	0.932	-	-	-	-
3-Health Assist-ext 1	3-Health Assist-ext 1	20.129	1.492	21.621	30.33	796	1.116	8.142	11.42	726	1.018	166	0.233	-	-
	3-Health Assist-ext 1	20.129	1.492	21.621	30.33	796	1.116	8.142	11.42	726	1.018	-	-	-	-
3-Health Assist-ext 2	3-Health Assist-ext 2	17.905	1.471	19.376	29.90	698	1.076	7.150	11.03	651	1.005	161	0.249	-	-
	3-Health Assist-ext 2	17.905	1.471	19.376	29.90	698	1.076	7.150	11.03	651	1.005	-	-	-	-
3-Medical Assist clean	3-Medical Assist clean	2.126	0.097	2.223	16.82	0	0.000	0.244	1.85	139	1.053	20	0.150	-	-
	3-Medical Assist clean	2.126	0.097	2.223	16.82	0	0.000	0.244	1.85	139	1.053	-	-	-	-
3-Medical Assist CR	3-Medical Assist CR	24.126	3.090	27.216	23.14	861	0.732	7.134	6.07	799	0.680	323	0.274	-	-
	3-Medical Assist CR	24.126	3.090	27.216	23.14	861	0.732	7.134	6.07	799	0.680	-	-	-	-
3-Medical Assist dirty	3-Medical Assist dirty	2.256	0.103	2.359	16.78	0	0.000	0.260	1.85	148	1.053	21	0.150	-	-
	3-Medical Assist dirty	2.256	0.103	2.359	16.78	0	0.000	0.260	1.85	148	1.053	-	-	-	-
3-Medical Assist Lab-1		16.295	4.054	20.349	36.89	331	0.600	4.637	8.41	835	1.514	437	0.791	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
3-Medical Assist Lab-1	3-Medical Assist Lab-1	16.295	4.054	20.349	36.89	331	0.600	4.637	8.41	835	1.514	-	-	-	-
	3-Medical Assist Office-int	2.543	0.285	2.827	15.99	102	0.575	0.326	1.85	41	0.232	20	0.110	-	-
3-Medical Assist- ext 1	3-Medical Assist Office-int	2.543	0.285	2.827	15.99	102	0.575	0.326	1.85	41	0.232	-	-	-	-
	3-Medical Assist- ext 1	16.945	1.431	18.376	34.93	661	1.255	6.646	12.63	608	1.155	152	0.289	-	-
3-Medical Assist-ext 2	3-Medical Assist- ext 1	16.945	1.431	18.376	34.93	661	1.255	6.646	12.63	608	1.155	-	-	-	-
	3-Medical Assist-ext 2	16.602	1.438	18.040	32.95	644	1.176	6.510	11.89	600	1.095	154	0.280	-	-
3-Medical Assist Storage-int 1	3-Medical Assist-ext 2	16.602	1.438	18.040	32.95	644	1.176	6.510	11.89	600	1.095	-	-	-	-
	3-Medical Assist Storage-int 1	1.458	0.148	1.606	7.94	44	0.217	0.385	1.90	55	0.272	30	0.150	-	-
3-Medical Assist Storage-int 2	3-Medical Assist Storage-int 1	1.458	0.148	1.606	7.94	44	0.217	0.385	1.90	55	0.272	-	-	-	-
	3-Medical Assist Storage-int 2	1.255	0.125	1.380	8.04	38	0.222	0.310	1.80	46	0.265	26	0.150	-	-
3-Medical Assist Storage-int 3	3-Medical Assist Storage-int 2	1.255	0.125	1.380	8.04	38	0.222	0.310	1.80	46	0.265	-	-	-	-
	3-Medical Assist Storage-int 3	1.251	0.125	1.375	8.01	38	0.220	0.317	1.85	46	0.268	26	0.150	-	-
3-Medical Assist TLT	3-Medical Assist Storage-int 3	1.251	0.125	1.375	8.01	38	0.220	0.317	1.85	46	0.268	-	-	-	-
	3-Medical Assist TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
3-Medical Assist-int 1	3-Medical Assist TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	3-Medical Assist-int 1	15.736	2.078	17.814	15.96	572	0.513	2.023	1.81	323	0.290	196	0.176	-	-
3-Medical Assist-int 2	3-Medical Assist-int 1	15.736	2.078	17.814	15.96	572	0.513	2.023	1.81	323	0.290	-	-	-	-
	3-Medical Assist-int 2	18.196	2.242	20.438	15.26	672	0.502	2.475	1.85	371	0.277	213	0.159	-	-
3-Corridor-3	3-Medical Assist-int 2	18.196	2.242	20.438	15.26	672	0.502	2.475	1.85	371	0.277	-	-	-	-
	3-Corridor-3	17.148	1.719	18.867	8.05	652	0.278	6.021	2.57	586	0.250	176	0.075	-	-
3-Adjst Counsler-ext	3-Corridor-3	17.148	1.719	18.867	8.05	652	0.278	6.021	2.57	586	0.250	-	-	-	-
	3-Adjst Counsler-ext	5.860	0.222	6.082	35.70	254	1.488	2.884	16.93	220	1.293	19	0.112	-	-
	3-Adjst Counsler-ext	5.860	0.222	6.082	35.70	254	1.488	2.884	16.93	220	1.293	-	-	-	-

3-Dean Office-ext		6.239	0.226	6.465	36.08	270	1.509	2.965	16.55	227	1.265	20	0.110	-	-
	3-Dean Office-ext	6.239	0.226	6.465	36.08	270	1.509	2.965	16.55	227	1.265	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
3-Guidance Office-ext 1		6.182	0.213	6.395	35.69	268	1.494	2.965	16.55	227	1.265	20	0.110	-	-
	3-Guidance Office-ext 1	6.182	0.213	6.395	35.69	268	1.494	2.965	16.55	227	1.265	-	-	-	-
3-Guidance Office-ext 2		6.386	0.228	6.615	35.74	277	1.496	3.062	16.55	234	1.264	20	0.109	-	-
	3-Guidance Office-ext 2	6.386	0.228	6.615	35.74	277	1.496	3.062	16.55	234	1.264	-	-	-	-
3-SPED Tutorial-ext		6.141	0.277	6.418	37.67	257	1.508	2.884	16.93	232	1.361	32	0.185	-	-
	3-SPED Tutorial-ext	6.141	0.277	6.418	37.67	257	1.508	2.884	16.93	232	1.361	-	-	-	-
3-Biotechnology-ext 1		12.925	0.965	13.890	26.99	205	0.398	5.883	11.43	889	1.727	180	0.350	-	-
	3-Biotechnology-ext 1	12.925	0.965	13.890	26.99	205	0.398	5.883	11.43	889	1.727	-	-	-	-
3-Biotechnology-ext 2		15.448	1.108	16.556	28.02	263	0.445	6.886	11.65	1,030	1.742	207	0.350	-	-
	3-Biotechnology-ext 2	15.448	1.108	16.556	28.02	263	0.445	6.886	11.65	1,030	1.742	-	-	-	-
4-Corridor-ext 3		37.334	0.651	37.984	23.09	1,614	0.981	21.972	13.36	1,659	1.009	123	0.075	-	-
	4-Corridor-ext 3	37.334	0.651	37.984	23.09	1,614	0.981	21.972	13.36	1,659	1.009	-	-	-	-
4-Corridor-int-2		12.267	1.084	13.351	9.03	478	0.323	6.217	4.21	539	0.365	111	0.075	-	-
	4-Corridor-int-2	12.267	1.084	13.351	9.03	478	0.323	6.217	4.21	539	0.365	-	-	-	-
4-Dental Assist-int 1		14.981	2.703	17.684	17.88	453	0.458	4.054	4.10	570	0.577	309	0.312	-	-
	4-Dental Assist-int 1	14.981	2.703	17.684	17.88	453	0.458	4.054	4.10	570	0.577	-	-	-	-
4-Dental Assist Office		2.635	0.288	2.923	16.14	106	0.583	0.750	4.14	71	0.392	20	0.110	-	-
	4-Dental Assist Office	2.635	0.288	2.923	16.14	106	0.583	0.750	4.14	71	0.392	-	-	-	-
4-Dental Assist-ext 1		18.756	1.507	20.263	31.26	705	1.088	8.676	13.39	797	1.230	203	0.312	-	-
	4-Dental Assist-ext 1	18.756	1.507	20.263	31.26	705	1.088	8.676	13.39	797	1.230	-	-	-	-
4-Dental Assist-ext 2		20.043	1.516	21.559	33.07	763	1.171	9.237	14.17	838	1.285	204	0.312	-	-
	4-Dental Assist-ext 2	20.043	1.516	21.559	33.07	763	1.171	9.237	14.17	838	1.285	-	-	-	-
4-Dental Assist Sterilization 1		3.222	0.564	3.786	18.36	99	0.480	0.827	4.01	118	0.570	64	0.312	-	-
	4-Dental Assist Sterilization 1	3.222	0.564	3.786	18.36	99	0.480	0.827	4.01	118	0.570	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
4-Dental Assist Sterilization 2	4-Dental Assist Sterilization 2	3.186	0.554	3.739	18.47	98	0.485	0.835	4.12	117	0.578	63	0.312	-	-
	4-Dental Assist Sterilization 2	3.186	0.554	3.739	18.47	98	0.485	0.835	4.12	117	0.578	-	-	-	-
4-Dental Assist Storage	4-Dental Assist Storage	1.543	0.133	1.676	9.26	50	0.277	0.744	4.11	77	0.427	27	0.150	-	-
	4-Dental Assist Storage	1.543	0.133	1.676	9.26	50	0.277	0.744	4.11	77	0.427	-	-	-	-
4-Dental Assist TLT	4-Dental Assist TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	4-Dental Assist TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
4-Dental Assist Utility	4-Dental Assist Utility	1.470	0.246	1.716	19.07	46	0.512	0.375	4.17	52	0.582	28	0.312	-	-
	4-Dental Assist Utility	1.470	0.246	1.716	19.07	46	0.512	0.375	4.17	52	0.582	-	-	-	-
4-Dental Assist Xray	4-Dental Assist Xray	8.003	0.835	8.838	20.59	305	0.712	3.314	7.72	307	0.716	80	0.187	-	-
	4-Dental Assist Xray	8.003	0.835	8.838	20.59	305	0.712	3.314	7.72	307	0.716	-	-	-	-
4-Dental Assist-int 2	4-Dental Assist-int 2	14.673	2.657	17.330	17.83	443	0.456	3.936	4.05	557	0.573	304	0.312	-	-
	4-Dental Assist-int 2	14.673	2.657	17.330	17.83	443	0.456	3.936	4.05	557	0.573	-	-	-	-
4-Adjst Counsler	4-Adjst Counsler	6.048	0.222	6.270	36.80	262	1.539	3.229	18.95	245	1.436	19	0.112	-	-
	4-Adjst Counsler	6.048	0.222	6.270	36.80	262	1.539	3.229	18.95	245	1.436	-	-	-	-
4-Guidance Offc-1	4-Guidance Offc-1	6.380	0.226	6.606	36.87	277	1.545	3.332	18.60	252	1.409	20	0.110	-	-
	4-Guidance Offc-1	6.380	0.226	6.606	36.87	277	1.545	3.332	18.60	252	1.409	-	-	-	-
4-Guidance Offc-2	4-Guidance Offc-2	6.595	0.228	6.823	36.87	286	1.547	3.440	18.59	261	1.408	20	0.109	-	-
	4-Guidance Offc-2	6.595	0.228	6.823	36.87	286	1.547	3.440	18.59	261	1.408	-	-	-	-
4-Guidance Offc-3	4-Guidance Offc-3	6.392	0.226	6.618	36.93	277	1.548	3.332	18.60	252	1.409	20	0.110	-	-
	4-Guidance Offc-3	6.392	0.226	6.618	36.93	277	1.548	3.332	18.60	252	1.409	-	-	-	-
4-PLTW/Engineering-int	4-PLTW/Engineering-int	13.859	1.900	15.759	18.06	500	0.573	3.528	4.04	412	0.473	178	0.204	-	-
	4-PLTW/Engineering-int	13.859	1.900	15.759	18.06	500	0.573	3.528	4.04	412	0.473	-	-	-	-
4-PLTW/Engineering-ext	4-PLTW/Engineering-ext	16.600	1.455	18.055	30.16	641	1.070	7.098	11.86	644	1.077	157	0.263	-	-
	4-PLTW/Engineering-ext	16.600	1.455	18.055	30.16	641	1.070	7.098	11.86	644	1.077	-	-	-	-
4-PLTW/Engineering Storage 1		0.954	0.082	1.037	8.98	31	0.265	0.478	4.14	50	0.430	17	0.150	-	-

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4-PLTW/Engineering Storage 2	4-PLTW/Engineering Storage 1	0.954	0.082	1.037	8.98	31	0.265	0.478	4.14	50	0.430	-	-	-	-
	4-PLTW/Engineering Storage 2	0.555	0.046	0.601	8.80	18	0.259	0.285	4.17	29	0.432	10	0.150	-	-
4-PLTW/Engineering Storage 3	4-PLTW/Engineering Storage 2	0.555	0.046	0.601	8.80	18	0.259	0.285	4.17	29	0.432	-	-	-	-
	4-PLTW/Engineering Storage 3	0.634	0.035	0.669	7.59	19	0.217	0.387	4.39	39	0.447	13	0.150	-	-
4-Robotics and Automation CR	4-PLTW/Engineering Storage 3	0.634	0.035	0.669	7.59	19	0.217	0.387	4.39	39	0.447	-	-	-	-
	4-Robotics and Automation CR	22.525	2.996	25.521	27.23	801	0.855	7.866	8.39	834	0.890	305	0.325	-	-
4-Robotics and Automation Fab Lab	4-Robotics and Automation CR	22.525	2.996	25.521	27.23	801	0.855	7.866	8.39	834	0.890	-	-	-	-
	4-Robotics and Automation Fab Lab	12.094	2.731	14.825	27.55	351	0.652	4.658	8.66	576	1.070	188	0.350	-	-
4-Robotics and Automation-int 1	4-Robotics and Automation Fab Lab	12.094	2.731	14.825	27.55	351	0.652	4.658	8.66	576	1.070	-	-	-	-
	4-Robotics and Automation-int 1	20.093	6.526	26.619	22.37	472	0.397	4.821	4.05	888	0.746	417	0.350	-	-
4-Robotics and Automation-int 2	4-Robotics and Automation-int 1	20.093	6.526	26.619	22.37	472	0.397	4.821	4.05	888	0.746	-	-	-	-
	4-Robotics and Automation-int 2	19.315	6.250	25.565	22.43	455	0.400	4.663	4.09	854	0.749	399	0.350	-	-
4-Robotics and Automation Office	4-Robotics and Automation-int 2	19.315	6.250	25.565	22.43	455	0.400	4.663	4.09	854	0.749	-	-	-	-
	4-Robotics and Automation Office	2.438	0.277	2.714	16.35	97	0.587	0.688	4.15	66	0.396	19	0.113	-	-
4-Robotics and Automation-ext 1	4-Robotics and Automation Office	2.438	0.277	2.714	16.35	97	0.587	0.688	4.15	66	0.396	-	-	-	-
	4-Robotics and Automation-ext 1	19.362	3.038	22.400	37.42	660	1.103	8.421	14.07	868	1.451	209	0.350	-	-
4-Robotics and Automation-ext 2	4-Robotics and Automation-ext 1	19.362	3.038	22.400	37.42	660	1.103	8.421	14.07	868	1.451	-	-	-	-
	4-Robotics and Automation-ext 2	17.638	3.018	20.656	34.73	583	0.980	7.640	12.85	812	1.365	208	0.350	-	-

	4-Robotics and Automation-ext 2	17.638	3.018	20.656	34.73	583	0.980	7.640	12.85	812	1.365	-	-	-	-
4-Robotics and Automation Storage 1		1.566	0.139	1.705	9.01	50	0.266	0.765	4.04	80	0.423	28	0.150	-	-
	4-Robotics and Automation Storage 1	1.566	0.139	1.705	9.01	50	0.266	0.765	4.04	80	0.423	-	-	-	-
4-Robotics and Automation Storage 2		1.872	0.165	2.037	9.05	60	0.268	0.922	4.10	96	0.427	34	0.150	-	-
	4-Robotics and Automation Storage 2	1.872	0.165	2.037	9.05	60	0.268	0.922	4.10	96	0.427	-	-	-	-
4-Robotics and Automation TLT		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	4-Robotics and Automation TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
4-Dean Office-ext	4-Dean Office-ext	6.230	0.277	6.507	38.19	261	1.533	3.229	18.95	256	1.504	32	0.185	-	-
4-Dental Assist CR-1	4-Dental Assist CR-1	26.515	3.141	29.656	22.74	963	0.738	9.053	6.94	943	0.723	332	0.255	-	-
4-Corridor-ext-4	4-Corridor-ext-4	21.190	0.859	22.048	10.16	846	0.390	19.836	9.14	1,545	0.712	163	0.075	-	-
4-Dental Assist CR-2	4-Dental Assist CR-2	24.952	3.090	28.043	23.85	899	0.764	8.473	7.21	894	0.760	323	0.274	-	-
2-Corridor-int-4	2-Corridor-int-4	13.827	1.351	15.178	8.24	528	0.287	4.045	2.20	412	0.224	138	0.075	-	-
3-Biotechnology Lab-1	3-Biotechnology Lab-1	14.026	2.439	16.466	15.41	0	0.000	1.959	1.83	1,124	1.052	374	0.350	-	-
3-Biotechnology Lab-2	3-Biotechnology Lab-2	15.978	2.790	18.768	15.36	0	0.000	2.254	1.84	1,286	1.053	428	0.350	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		1,234.416	0.000	1,234.416	20.75	44,056	0.741	450.538	7.57	53,263	0.895	18,144	0.305	-	-
1- Costmetology TLT	1- Costmetology TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	70	1.028	-	-
1-Corridor TLTS-int 2	1-Corridor TLTS-int 2	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Electric Tech CR-int 1	1-Electric Tech CR-int 1	18.988	3.706	22.694	21.99	634	0.614	5.372	5.21	785	0.761	312	0.302	-	-
1-HVAC Tech CR	1-HVAC Tech CR	19.368	3.668	23.037	23.13	653	0.656	7.105	7.14	904	0.908	309	0.310	-	-
1-HVAC Tech Electrical Rm 1	1-HVAC Tech Electrical Rm 1	1.060	0.000	1.060	6.28	10	0.061	0.000	0.00	0	0.000	13	0.075	-	-
1-HVAC Tech TLT	1-HVAC Tech TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Corridor-int 3	1-Corridor-int 3	15.903	1.931	17.834	9.56	622	0.333	11.336	6.07	980	0.525	140	0.075	-	-
1-Bank	1-Bank	9.366	1.261	10.627	17.64	366	0.608	3.331	5.53	342	0.568	83	0.137	-	-
2-Custodial-int-1	2-Custodial-int-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
2-TLTs	2-TLTs	0.551	0.000	0.551	1.15	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
2-MDF	2-MDF	3.021	0.000	3.021	7.70	35	0.090	0.000	0.00	0	0.000	29	0.075	-	-
2-Classroom-E3	2-Classroom-E3	23.983	2.966	26.949	29.57	869	0.954	7.649	8.39	934	1.024	303	0.332	-	-

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2-Classroom-E4		23.877	2.963	26.840	29.72	865	0.958	7.623	8.44	931	1.031	302	0.335	-	-
	2-Classroom-E4	23.877	2.963	26.840	29.72	865	0.958	7.623	8.44	931	1.031	-	-	-	-
2-Classroom-E5		24.082	2.966	27.048	29.68	874	0.959	8.019	8.80	960	1.053	303	0.332	-	-
	2-Classroom-E5	24.082	2.966	27.048	29.68	874	0.959	8.019	8.80	960	1.053	-	-	-	-
2-Classroom-E7		24.056	2.986	27.042	29.67	872	0.957	7.675	8.42	936	1.027	303	0.332	-	-
	2-Classroom-E7	24.056	2.986	27.042	29.67	872	0.957	7.675	8.42	936	1.027	-	-	-	-
2-Classroom-E6		24.009	2.966	26.976	29.60	870	0.955	8.035	8.82	961	1.054	303	0.332	-	-
	2-Classroom-E6	24.009	2.966	26.976	29.60	870	0.955	8.035	8.82	961	1.054	-	-	-	-
2-Classroom-I1		19.901	2.787	22.688	24.67	682	0.742	5.035	5.47	751	0.816	303	0.330	-	-
	2-Classroom-I1	19.901	2.787	22.688	24.67	682	0.742	5.035	5.47	751	0.816	-	-	-	-
2-Classroom-I2		19.145	2.789	21.934	23.62	647	0.697	4.410	4.75	708	0.762	304	0.327	-	-
	2-Classroom-I2	19.145	2.789	21.934	23.62	647	0.697	4.410	4.75	708	0.762	-	-	-	-
2-SPED Learning Center-ext		19.860	2.784	22.645	25.14	681	0.756	5.072	5.63	751	0.834	302	0.335	-	-
	2-SPED Learning Center-ext	19.860	2.784	22.645	25.14	681	0.756	5.072	5.63	751	0.834	-	-	-	-
2-Collab-ext		39.131	3.445	42.575	40.11	1,635	1.540	16.634	15.67	1,437	1.354	205	0.193	-	-
	2-Collab-ext	39.131	3.445	42.575	40.11	1,635	1.540	16.634	15.67	1,437	1.354	-	-	-	-
2-Corridor-ext 2		31.148	0.670	31.817	15.44	1,308	0.635	19.476	9.45	1,572	0.763	155	0.075	-	-
	2-Corridor-ext 2	31.148	0.670	31.817	15.44	1,308	0.635	19.476	9.45	1,572	0.763	-	-	-	-
2-Electric Rm		0.548	0.000	0.548	7.16	6	0.079	0.000	0.00	0	0.000	6	0.075	-	-
	2-Electric Rm	0.548	0.000	0.548	7.16	6	0.079	0.000	0.00	0	0.000	-	-	-	-
2-Life Safety		1.164	0.201	1.365	21.52	45	0.708	0.191	3.00	28	0.438	11	0.174	-	-
	2-Life Safety	1.164	0.201	1.365	21.52	45	0.708	0.191	3.00	28	0.438	-	-	-	-
2-SPED Small Group		7.225	1.011	8.236	15.46	282	0.528	0.986	1.85	154	0.290	65	0.122	-	-
	2-SPED Small Group	7.225	1.011	8.236	15.46	282	0.528	0.986	1.85	154	0.290	-	-	-	-

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2-Teacher Planning Huddle-1	2-Teacher Planning Huddle-1	2.826	0.588	3.414	20.32	106	0.629	0.355	2.11	66	0.392	31	0.187	-	-
	2-Teacher Planning Huddle-1	2.826	0.588	3.414	20.32	106	0.629	0.355	2.11	66	0.392	-	-	-	-
2-Teacher Planning-1	2-Teacher Planning-1	34.259	3.493	37.752	35.99	1,413	1.347	12.571	11.99	1,150	1.097	204	0.194	-	-
	2-Teacher Planning-1	34.259	3.493	37.752	35.99	1,413	1.347	12.571	11.99	1,150	1.097	-	-	-	-
2-TLT	2-TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	2-TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Corridor-int-1	2-Corridor-int-1	13.584	1.379	14.963	7.96	515	0.274	4.349	2.31	490	0.261	141	0.075	-	-
	2-Corridor-int-1	13.584	1.379	14.963	7.96	515	0.274	4.349	2.31	490	0.261	-	-	-	-
2-Classroom-E1	2-Classroom-E1	24.749	2.979	27.728	29.34	902	0.955	9.043	9.57	1,035	1.095	305	0.323	-	-
	2-Classroom-E1	24.749	2.979	27.728	29.34	902	0.955	9.043	9.57	1,035	1.095	-	-	-	-
2-Classroom-E2	2-Classroom-E2	23.871	2.963	26.834	29.72	864	0.957	7.618	8.44	931	1.031	302	0.335	-	-
	2-Classroom-E2	23.871	2.963	26.834	29.72	864	0.957	7.618	8.44	931	1.031	-	-	-	-
2-Teacher Planning TLT	2-Teacher Planning TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	2-Teacher Planning TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
2-Telecom	2-Telecom	2.179	0.000	2.179	7.77	26	0.091	0.000	0.00	0	0.000	21	0.075	-	-
	2-Telecom	2.179	0.000	2.179	7.77	26	0.091	0.000	0.00	0	0.000	-	-	-	-
3-Custodial-int 1	3-Custodial-int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	3-Custodial-int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
3-Classroom-E1	3-Classroom-E1	24.736	2.979	27.715	29.32	902	0.954	7.811	8.26	948	1.003	305	0.323	-	-
	3-Classroom-E1	24.736	2.979	27.715	29.32	902	0.954	7.811	8.26	948	1.003	-	-	-	-
3-Classroom-E2	3-Classroom-E2	24.039	2.963	27.002	29.90	872	0.966	7.131	7.90	896	0.993	302	0.335	-	-
	3-Classroom-E2	24.039	2.963	27.002	29.90	872	0.966	7.131	7.90	896	0.993	-	-	-	-
3-Classroom-E3	3-Classroom-E3	24.112	2.966	27.078	29.71	875	0.960	7.161	7.86	899	0.987	303	0.332	-	-
	3-Classroom-E3	24.112	2.966	27.078	29.71	875	0.960	7.161	7.86	899	0.987	-	-	-	-
3-Classroom-E4	3-Classroom-E4	24.006	2.963	26.969	29.87	871	0.964	7.133	7.90	897	0.993	302	0.335	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
3-Classroom-E4	3-Classroom-E4	24.006	2.963	26.969	29.87	871	0.964	7.133	7.90	897	0.993	-	-	-	-
	3-Classroom-E5	24.238	2.966	27.204	29.85	881	0.966	7.527	8.26	925	1.015	303	0.332	-	-
3-Classroom-E5	3-Classroom-E5	24.238	2.966	27.204	29.85	881	0.966	7.527	8.26	925	1.015	-	-	-	-
	3-Classroom-E7	24.137	2.966	27.103	29.74	876	0.961	7.188	7.89	901	0.989	303	0.332	-	-
3-Classroom-E7	3-Classroom-E7	24.137	2.966	27.103	29.74	876	0.961	7.188	7.89	901	0.989	-	-	-	-
	3-Classroom-E6	24.160	2.966	27.126	29.76	877	0.962	7.542	8.27	926	1.016	303	0.332	-	-
3-Classroom-E6	3-Classroom-E6	24.160	2.966	27.126	29.76	877	0.962	7.542	8.27	926	1.016	-	-	-	-
	3-Classroom-I1	20.915	2.787	23.703	25.77	728	0.792	5.155	5.61	759	0.825	303	0.330	-	-
3-Classroom-I1	3-Classroom-I1	20.915	2.787	23.703	25.77	728	0.792	5.155	5.61	759	0.825	-	-	-	-
	3-Classroom-I2	21.821	2.789	24.610	26.50	769	0.828	5.439	5.86	780	0.840	304	0.327	-	-
3-Classroom-I2	3-Classroom-I2	21.821	2.789	24.610	26.50	769	0.828	5.439	5.86	780	0.840	-	-	-	-
	3-Collab	39.418	2.445	41.862	39.44	1,601	1.509	16.584	15.62	1,515	1.428	267	0.252	-	-
3-Collab	3-Collab	39.418	2.445	41.862	39.44	1,601	1.509	16.584	15.62	1,515	1.428	-	-	-	-
	3-Corridor-ext 1	37.873	0.670	38.543	18.71	1,615	0.784	19.450	9.44	1,570	0.762	155	0.075	-	-
3-Corridor-ext 1	3-Corridor-ext 1	37.873	0.670	38.543	18.71	1,615	0.784	19.450	9.44	1,570	0.762	-	-	-	-
	3-Electric Rm-2	0.633	0.000	0.633	8.27	8	0.101	0.000	0.00	0	0.000	6	0.075	-	-
3-Electric Rm-2	3-Electric Rm-2	0.633	0.000	0.633	8.27	8	0.101	0.000	0.00	0	0.000	-	-	-	-
	3-Electric Rm LS	0.456	0.000	0.456	7.18	5	0.079	0.000	0.00	0	0.000	5	0.075	-	-
3-Electric Rm LS	3-Electric Rm LS	0.456	0.000	0.456	7.18	5	0.079	0.000	0.00	0	0.000	-	-	-	-
	3-IDF-2	0.486	0.000	0.486	7.16	5	0.079	0.000	0.00	0	0.000	5	0.075	-	-
3-IDF-2	3-IDF-2	0.486	0.000	0.486	7.16	5	0.079	0.000	0.00	0	0.000	-	-	-	-
	3-Sci Lab Storage	2.567	0.213	2.780	9.58	85	0.292	1.220	4.20	143	0.492	44	0.150	-	-
3-Sci Lab Storage	3-Sci Lab Storage	2.567	0.213	2.780	9.58	85	0.292	1.220	4.20	143	0.492	-	-	-	-
	3-SCI Lab-ext 3	24.479	5.060	29.539	18.28	0	0.000	6.560	4.06	2,575	1.593	676	0.418	-	-
3-SCI Lab-ext 3	3-SCI Lab-ext 3	24.479	5.060	29.539	18.28	0	0.000	6.560	4.06	2,575	1.593	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
3-SPED Learning Center-ext 2		20.422	2.784	23.206	25.76	707	0.785	5.091	5.65	753	0.836	302	0.335	-	-
	3-SPED Learning Center-ext 2	20.422	2.784	23.206	25.76	707	0.785	5.091	5.65	753	0.836	-	-	-	-
3-Teacher Planning Huddle-1		2.829	0.588	3.417	20.34	106	0.630	0.350	2.08	66	0.390	31	0.187	-	-
	3-Teacher Planning Huddle-1	2.829	0.588	3.417	20.34	106	0.630	0.350	2.08	66	0.390	-	-	-	-
3-Teacher Planning TLT		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	3-Teacher Planning TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
3-Teacher Planning-1		34.184	3.493	37.677	35.92	1,410	1.344	12.317	11.74	1,132	1.080	204	0.194	-	-
	3-Teacher Planning-1	34.184	3.493	37.677	35.92	1,410	1.344	12.317	11.74	1,132	1.080	-	-	-	-
3-TLT		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	3-TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
3-Corridor-4		18.727	1.806	20.532	8.34	717	0.291	6.311	2.56	685	0.278	185	0.075	-	-
	3-Corridor-4	18.727	1.806	20.532	8.34	717	0.291	6.311	2.56	685	0.278	-	-	-	-
3-Sci Chem Storage		1.693	0.159	1.852	8.15	0	0.000	0.911	4.01	510	2.244	0	0.000	-	-
	3-Sci Chem Storage	1.693	0.159	1.852	8.15	0	0.000	0.911	4.01	510	2.244	-	-	-	-
3-Sci Lab Prep 2		7.137	0.928	8.064	15.36	0	0.000	2.114	4.03	835	1.591	162	0.308	-	-
	3-Sci Lab Prep 2	7.137	0.928	8.064	15.36	0	0.000	2.114	4.03	835	1.591	-	-	-	-
4-Custodial-ext 1		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	4-Custodial-ext 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
4-Classroom-E1		24.861	2.999	27.860	29.48	907	0.960	9.781	10.35	1,087	1.150	305	0.323	-	-
	4-Classroom-E1	24.861	2.999	27.860	29.48	907	0.960	9.781	10.35	1,087	1.150	-	-	-	-
4-Classroom-E2		24.249	2.982	27.232	30.16	882	0.976	9.012	9.98	1,029	1.139	302	0.335	-	-
	4-Classroom-E2	24.249	2.982	27.232	30.16	882	0.976	9.012	9.98	1,029	1.139	-	-	-	-
4-Classroom-E3		24.300	2.986	27.285	29.94	884	0.969	9.060	9.94	1,033	1.133	303	0.332	-	-
	4-Classroom-E3	24.300	2.986	27.285	29.94	884	0.969	9.060	9.94	1,033	1.133	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
4-Classroom-E4	4-Classroom-E4	24.254	2.982	27.236	30.16	882	0.977	9.013	9.98	1,029	1.139	302	0.335	-	-
	4-Classroom-E4	24.254	2.982	27.236	30.16	882	0.977	9.013	9.98	1,029	1.139	-	-	-	-
4-Classroom-E5	4-Classroom-E5	24.429	2.986	27.414	30.08	889	0.976	9.418	10.33	1,058	1.161	303	0.332	-	-
	4-Classroom-E5	24.429	2.986	27.414	30.08	889	0.976	9.418	10.33	1,058	1.161	-	-	-	-
4-Classroom-E7	4-Classroom-E7	24.412	2.986	27.397	30.06	889	0.975	9.079	9.96	1,034	1.135	303	0.332	-	-
	4-Classroom-E7	24.412	2.986	27.397	30.06	889	0.975	9.079	9.96	1,034	1.135	-	-	-	-
4-Classroom-E6	4-Classroom-E6	24.335	2.986	27.320	29.97	885	0.971	9.429	10.35	1,059	1.162	303	0.332	-	-
	4-Classroom-E6	24.335	2.986	27.320	29.97	885	0.971	9.429	10.35	1,059	1.162	-	-	-	-
4-Classroom-I1	4-Classroom-I1	21.711	2.787	24.498	26.64	765	0.832	7.143	7.77	899	0.977	303	0.330	-	-
	4-Classroom-I1	21.711	2.787	24.498	26.64	765	0.832	7.143	7.77	899	0.977	-	-	-	-
4-Classroom-I2	4-Classroom-I2	22.601	2.789	25.390	27.34	805	0.867	7.452	8.02	922	0.992	304	0.327	-	-
	4-Classroom-I2	22.601	2.789	25.390	27.34	805	0.867	7.452	8.02	922	0.992	-	-	-	-
4-Collab	4-Collab	39.875	3.445	43.320	40.81	1,669	1.572	18.773	17.69	1,588	1.496	205	0.193	-	-
	4-Collab	39.875	3.445	43.320	40.81	1,669	1.572	18.773	17.69	1,588	1.496	-	-	-	-
4-Corridor- ext 2	4-Corridor- ext 2	41.209	0.670	41.879	20.33	1,768	0.858	23.743	11.52	1,872	0.908	155	0.075	-	-
	4-Corridor- ext 2	41.209	0.670	41.879	20.33	1,768	0.858	23.743	11.52	1,872	0.908	-	-	-	-
4-Electric LS-2	4-Electric LS-2	0.704	0.000	0.704	9.27	9	0.122	0.000	0.00	0	0.000	6	0.075	-	-
	4-Electric LS-2	0.704	0.000	0.704	9.27	9	0.122	0.000	0.00	0	0.000	-	-	-	-
4-SPED Learning Center	4-SPED Learning Center	21.460	2.784	24.244	26.92	754	0.838	7.032	7.81	889	0.987	302	0.335	-	-
	4-SPED Learning Center	21.460	2.784	24.244	26.92	754	0.838	7.032	7.81	889	0.987	-	-	-	-
4-Teacher Planning Huddle-1	4-Teacher Planning Huddle-1	3.213	0.743	3.956	23.55	119	0.706	0.720	4.28	100	0.594	38	0.224	-	-
	4-Teacher Planning Huddle-1	3.213	0.743	3.956	23.55	119	0.706	0.720	4.28	100	0.594	-	-	-	-
4-Teacher Planning TLT	4-Teacher Planning TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	4-Teacher Planning TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
4-Teacher Planning-1		34.111	3.515	37.626	35.87	1,406	1.341	14.444	13.77	1,282	1.222	204	0.194	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
4-TLT-int 1	4-Teacher Planning-1	34.111	3.515	37.626	35.87	1,406	1.341	14.444	13.77	1,282	1.222	-	-	-	-
	4-TLT-int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
4-Corridor-ext 5	4-TLT-int 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	4-Corridor-ext 5	20.823	1.788	22.610	9.59	819	0.348	15.351	6.51	1,311	0.556	177	0.075	-	-
4-Electric Rm-2	4-Corridor-ext 5	20.823	1.788	22.610	9.59	819	0.348	15.351	6.51	1,311	0.556	-	-	-	-
	4-Electric Rm-2	0.982	0.000	0.982	9.62	13	0.129	0.000	0.00	0	0.000	8	0.075	-	-
4-Electric Rm-Amp	4-Electric Rm-2	0.982	0.000	0.982	9.62	13	0.129	0.000	0.00	0	0.000	-	-	-	-
	4-Electric Rm-Amp	0.700	0.000	0.700	9.51	9	0.126	0.000	0.00	0	0.000	6	0.075	-	-
4-IDF-ext 1	4-Electric Rm-Amp	0.700	0.000	0.700	9.51	9	0.126	0.000	0.00	0	0.000	-	-	-	-
	4-IDF-ext 1	0.691	0.000	0.691	9.09	9	0.118	0.000	0.00	0	0.000	6	0.075	-	-
3-SCI Lab-ext 4	4-IDF-ext 1	0.691	0.000	0.691	9.09	9	0.118	0.000	0.00	0	0.000	-	-	-	-
	3-SCI Lab-ext 4	24.575	5.061	29.636	18.32	0	0.000	6.212	3.84	2,552	1.578	676	0.418	-	-
	3-SCI Lab-ext 4	24.575	5.061	29.636	18.32	0	0.000	6.212	3.84	2,552	1.578	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		318.883	0.000	318.883	12.31	9,524	0.368	106.529	4.11	12,375	0.478	6,337	0.245	-	-
0-Auto Collision TLT-int	0-Auto Collision TLT-int	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	70	0.826	-	-
	0-Auto Collision TLT-int	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
0-Custodial Storage-ext	0-Custodial Storage-ext	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	0-Custodial Storage-ext	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
0-Custodial-ext 1	0-Custodial-ext 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	0-Custodial-ext 1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
0-Recycling Rm-ext	0-Recycling Rm-ext	0.000	0.000	0.000	0.00	0	0.000	1.395	5.14	453	1.669	0	0.000	-	-
	0-Recycling Rm-ext	0.000	0.000	0.000	0.00	0	0.000	1.395	5.14	453	1.669	-	-	-	-
0-Auto Collision CR-int	0-Auto Collision CR-int	13.880	3.028	16.908	22.05	415	0.542	1.671	2.18	499	0.651	292	0.381	-	-
	0-Auto Collision CR-int	13.880	3.028	16.908	22.05	415	0.542	1.671	2.18	499	0.651	-	-	-	-
0-Corridor-int 1	0-Corridor-int 1	14.256	2.217	16.473	6.39	506	0.196	9.059	3.51	890	0.345	193	0.075	-	-
	0-Corridor-int 1	14.256	2.217	16.473	6.39	506	0.196	9.059	3.51	890	0.345	-	-	-	-
0-Corridor-int 2	0-Corridor-int 2	13.743	2.149	15.891	6.35	487	0.195	8.961	3.58	876	0.350	188	0.075	-	-
	0-Corridor-int 2	13.743	2.149	15.891	6.35	487	0.195	8.961	3.58	876	0.350	-	-	-	-
0-Custodial Office-ext	0-Custodial Office-ext	2.274	0.322	2.596	15.83	90	0.549	0.688	4.19	73	0.443	19	0.113	-	-
	0-Custodial Office-ext	2.274	0.322	2.596	15.83	90	0.549	0.688	4.19	73	0.443	-	-	-	-
0-Custodial Workshop-int	0-Custodial Workshop-int	6.611	0.836	7.447	14.40	264	0.510	1.839	3.55	196	0.380	51	0.099	-	-
	0-Custodial Workshop-int	6.611	0.836	7.447	14.40	264	0.510	1.839	3.55	196	0.380	-	-	-	-
0-General Supply-ext 1	0-General Supply-ext 1	0.000	0.000	0.000	0.00	0	0.000	1.009	5.36	108	0.573	28	0.150	-	-
	0-General Supply-ext 1	0.000	0.000	0.000	0.00	0	0.000	1.009	5.36	108	0.573	-	-	-	-
0-General Supply-int-1	0-General Supply-int-1	3.333	0.528	3.861	6.20	82	0.132	2.189	3.52	276	0.443	93	0.150	-	-
	0-General Supply-int-1	3.333	0.528	3.861	6.20	82	0.132	2.189	3.52	276	0.443	-	-	-	-
0-Metal Fab CR-int	0-Metal Fab CR-int	16.497	3.566	20.064	22.33	528	0.587	3.707	4.13	655	0.729	302	0.336	-	-
	0-Metal Fab CR-int	16.497	3.566	20.064	22.33	528	0.587	3.707	4.13	655	0.729	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
0-Weights Storage-int		0.656	0.100	0.756	5.76	15	0.116	0.448	3.42	57	0.436	20	0.150	-	-
	0-Weights Storage-int	0.656	0.100	0.756	5.76	15	0.116	0.448	3.42	57	0.436	-	-	-	-
0-Weights-int		21.648	17.819	39.466	27.34	627	0.434	4.891	3.39	976	0.676	483	0.335	-	-
	0-Weights-int	21.648	17.819	39.466	27.34	627	0.434	4.891	3.39	976	0.676	-	-	-	-
1-Coach F-1		2.526	0.316	2.842	18.48	102	0.664	0.694	4.51	72	0.469	18	0.116	-	-
	1-Coach F-1	2.526	0.316	2.842	18.48	102	0.664	0.694	4.51	72	0.469	-	-	-	-
1-Coach TLT-1		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Coach TLT-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Corridor-int 5		8.922	1.087	10.009	9.54	349	0.332	3.591	3.42	355	0.339	79	0.075	-	-
	1-Corridor-int 5	8.922	1.087	10.009	9.54	349	0.332	3.591	3.42	355	0.339	-	-	-	-
1-Health CR-1		15.630	3.445	19.075	24.36	495	0.632	2.186	2.79	537	0.686	293	0.374	-	-
	1-Health CR-1	15.630	3.445	19.075	24.36	495	0.632	2.186	2.79	537	0.686	-	-	-	-
1-M Coach Offc		2.533	0.316	2.849	18.53	102	0.666	0.794	5.17	79	0.515	18	0.116	-	-
	1-M Coach Offc	2.533	0.316	2.849	18.53	102	0.666	0.794	5.17	79	0.515	-	-	-	-
1-M Coach TLT		0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-M Coach TLT	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-M PE Instructor		2.530	0.316	2.846	18.51	102	0.665	0.786	5.11	78	0.511	18	0.116	-	-
	1-M PE Instructor	2.530	0.316	2.846	18.51	102	0.665	0.786	5.11	78	0.511	-	-	-	-
1-M Trainer-1		3.258	0.372	3.630	17.52	133	0.640	0.908	4.38	92	0.446	22	0.105	-	-
	1-M Trainer-1	3.258	0.372	3.630	17.52	133	0.640	0.908	4.38	92	0.446	-	-	-	-
1-Nurse Exam Rm-int 1		2.309	0.266	2.575	16.82	70	0.459	0.408	2.67	90	0.588	47	0.307	-	-
	1-Nurse Exam Rm-int 1	2.309	0.266	2.575	16.82	70	0.459	0.408	2.67	90	0.588	-	-	-	-
1-Nurse Exam Rm-int 2		2.210	0.253	2.463	17.48	68	0.482	0.408	2.90	86	0.614	44	0.314	-	-
	1-Nurse Exam Rm-int 2	2.210	0.253	2.463	17.48	68	0.482	0.408	2.90	86	0.614	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
1-Nurse Exam Rm-int 3	1-Nurse Exam Rm-int 3	1.877	0.225	2.102	18.30	57	0.496	0.361	3.15	76	0.658	38	0.334	-	-
	1-Nurse Exam Rm-int 3	1.877	0.225	2.102	18.30	57	0.496	0.361	3.15	76	0.658	-	-	-	-
1-Nurse Office-int 1	1-Nurse Office-int 1	3.055	0.374	3.429	16.39	123	0.589	0.599	2.86	71	0.339	22	0.105	-	-
	1-Nurse Office-int 1	3.055	0.374	3.429	16.39	123	0.589	0.599	2.86	71	0.339	-	-	-	-
1-Nurse Office-int 2	1-Nurse Office-int 2	3.052	0.374	3.426	16.37	123	0.588	0.587	2.80	70	0.334	22	0.105	-	-
	1-Nurse Office-int 2	3.052	0.374	3.426	16.37	123	0.588	0.587	2.80	70	0.334	-	-	-	-
1-Nurse Resting-int	1-Nurse Resting-int	4.453	0.611	5.064	17.91	128	0.452	0.786	2.78	188	0.663	101	0.358	-	-
	1-Nurse Resting-int	4.453	0.611	5.064	17.91	128	0.452	0.786	2.78	188	0.663	-	-	-	-
1-Nurse TLTs-1	1-Nurse TLTs-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Nurse TLTs-1	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Nurse Waiting-int	1-Nurse Waiting-int	5.369	0.580	5.949	16.82	167	0.472	1.015	2.87	208	0.588	105	0.296	-	-
	1-Nurse Waiting-int	5.369	0.580	5.949	16.82	167	0.472	1.015	2.87	208	0.588	-	-	-	-
1-Girls Locker	1-Girls Locker	13.837	6.730	20.568	11.47	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Girls Locker	13.837	6.730	20.568	11.47	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Girls Locker TLT	1-Girls Locker TLT	0.945	0.659	1.604	9.14	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Girls Locker TLT	0.945	0.659	1.604	9.14	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Girls Locker Shower	1-Girls Locker Shower	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Girls Locker Shower	0.000	0.000	0.000	0.00	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Boys Locker	1-Boys Locker	20.639	6.716	27.355	15.29	22	0.012	0.000	0.00	0	0.000	0	0.000	-	-
	1-Boys Locker	20.639	6.716	27.355	15.29	22	0.012	0.000	0.00	0	0.000	-	-	-	-
1-Boys Locker TLT	1-Boys Locker TLT	1.322	0.693	2.015	10.92	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Boys Locker TLT	1.322	0.693	2.015	10.92	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Boys Locker Shower	1-Boys Locker Shower	1.017	0.601	1.618	10.11	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
	1-Boys Locker Shower	1.017	0.601	1.618	10.11	0	0.000	0.000	0.00	0	0.000	-	-	-	-
1-Girls Team Lockers-ext		2.533	1.333	3.866	10.89	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
1-Girls Team Lockers-ext	1-Girls Team Lockers-ext	2.533	1.333	3.866	10.89	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	1-Girls Team Lockers-int 1	2.351	1.239	3.590	10.88	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Girls Team Lockers-int 1	1-Girls Team Lockers-int 1	2.351	1.239	3.590	10.88	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	1-Girls Team Lockers-int 2	2.460	1.257	3.717	11.10	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Girls Team Lockers-int 2	1-Girls Team Lockers-int 2	2.460	1.257	3.717	11.10	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	1-Boys Team Lockers-ext	2.533	1.333	3.865	10.89	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Boys Team Lockers-ext	1-Boys Team Lockers-ext	2.533	1.333	3.865	10.89	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	1-Boys Team Lockers-int 1	2.375	1.239	3.614	10.95	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Boys Team Lockers-int 1	1-Boys Team Lockers-int 1	2.375	1.239	3.614	10.95	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	1-Boys Team Lockers-int 2	2.465	1.257	3.722	11.11	0	0.000	0.000	0.00	0	0.000	0	0.000	-	-
1-Boys Team Lockers-int 2	1-Boys Team Lockers-int 2	2.465	1.257	3.722	11.11	0	0.000	0.000	0.00	0	0.000	-	-	-	-
	1-Fitness Rm-int 2	1.583	1.174	2.758	34.14	49	0.607	0.233	2.88	57	0.705	31	0.385	-	-
1-Fitness Rm-int 2	1-Fitness Rm-int 2	1.583	1.174	2.758	34.14	49	0.607	0.233	2.88	57	0.705	-	-	-	-
	1-Fitness Rm-int 1	1.464	1.161	2.625	38.61	44	0.652	0.213	3.13	54	0.799	30	0.443	-	-
1-Fitness Rm-int 1	1-Fitness Rm-int 1	1.464	1.161	2.625	38.61	44	0.652	0.213	3.13	54	0.799	-	-	-	-
	2-Phys Ed Storage-int	1.949	0.218	2.167	7.11	55	0.180	0.642	2.11	105	0.344	46	0.150	-	-
2-Phys Ed Storage-int	2-Phys Ed Storage-int	1.949	0.218	2.167	7.11	55	0.180	0.642	2.11	105	0.344	-	-	-	-
	0-Auto Tech CR-ext	21.343	3.265	24.608	21.75	736	0.651	11.844	10.47	1,250	1.105	319	0.282	-	-
0-Auto Tech CR-ext	0-Auto Tech CR-ext	21.343	3.265	24.608	21.75	736	0.651	11.844	10.47	1,250	1.105	-	-	-	-
	1-Fitness Rm	56.916	23.256	80.172	55.23	2,126	1.465	24.982	17.21	2,586	1.781	634	0.437	-	-
1-Fitness Rm	1-Fitness Rm	56.916	23.256	80.172	55.23	2,126	1.465	24.982	17.21	2,586	1.781	-	-	-	-
	1-Stair-ext E2	26.978	0.280	27.258	24.56	1,233	1.111	18.196	16.39	1,109	0.999	0	0.000	-	-
1-Stair-ext E2	1-Stair-ext E2	26.978	0.280	27.258	24.56	1,233	1.111	18.196	16.39	1,109	0.999	-	-	-	-
	1-PE Instr. Office-1	2.526	0.316	2.842	18.48	102	0.664	0.694	4.51	72	0.469	18	0.116	-	-
1-PE Instr. Office-1	1-PE Instr. Office-1	2.526	0.316	2.842	18.48	102	0.664	0.694	4.51	72	0.469	-	-	-	-



Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
1-Ath. Dir Office-1	1-Ath. Dir Office-1	3.026	0.360	3.386	17.30	123	0.626	0.746	3.81	80	0.408	21	0.107	-	-
		3.026	0.360	3.386	17.30	123	0.626	0.746	3.81	80	0.408	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		151.340	0.000	151.340	25.13	7,264	1.206	56.618	9.40	4,208	0.699	4,208	0.699	-	-
1-Culinary Arts-ext-1	1-Culinary Arts-ext-1	35.273	4.057	39.330	32.14	1,693	1.383	17.214	14.07	1,271	1.038	390	0.319	-	-
1-Culinary Arts CR	1-Culinary Arts CR	25.289	3.056	28.345	35.16	1,214	1.506	8.846	10.97	653	0.810	295	0.366	-	-
1-Culinary Dry Storage	1-Culinary Dry Storage	2.844	0.365	3.209	8.72	137	0.373	1.858	5.05	137	0.373	55	0.150	-	-
1-Culinary Arts-int-1	1-Culinary Arts-int-1	35.611	6.713	42.324	23.94	1,709	0.967	9.026	5.11	666	0.377	563	0.319	-	-
1-Culinary Arts Dishwash	1-Culinary Arts Dishwash	4.770	0.524	5.293	22.31	229	0.965	1.447	6.10	107	0.450	63	0.265	-	-
1-Restaurant-int	1-Restaurant-int	20.389	2.811	23.200	25.98	978	1.096	4.606	5.16	368	0.412	368	0.412	-	-
1-Restaurant-ext	1-Restaurant-ext	23.907	1.524	25.432	44.47	1,147	2.006	12.669	22.15	935	1.636	236	0.412	-	-
1-Culinary Arts Office	1-Culinary Arts Office	3.258	0.317	3.575	23.11	156	1.011	0.952	6.15	70	0.454	18	0.115	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		32.073	0.000	32.073	10.16	2,017	0.639	32.179	10.19	2,384	0.755	2,384	0.755	-	-
1-Kitchen Recycle	1-Kitchen Recycle	0.551	0.078	0.629	4.57	137	1.000	0.784	5.70	137	1.000	137	1.000	-	-
1-Kitchen Cooler	1-Kitchen Cooler	1.788	0.116	1.904	9.29	86	0.419	2.905	14.17	214	1.046	31	0.150	-	-
1-Kitchen Dry Storage	1-Kitchen Dry Storage	3.362	0.221	3.583	9.18	161	0.413	5.964	15.27	440	1.128	59	0.150	-	-
1-Kitchen Freezer	1-Kitchen Freezer	2.830	0.158	2.988	10.70	110	0.394	4.686	16.78	110	0.394	0	0.000	-	-
1-Kitchen Office	1-Kitchen Office	1.845	0.219	2.064	17.20	89	0.738	1.716	14.30	47	0.394	15	0.127	-	-
1-Kitchen TLTs	1-Kitchen TLTs	2.260	0.095	2.354	13.27	140	0.789	3.404	19.19	140	0.789	140	0.789	-	-
1-Kitchen-int	1-Kitchen-int	19.437	2.421	21.858	11.82	1,294	0.700	12.720	6.88	1,294	0.700	1,294	0.700	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		75.654	0.000	75.654	23.43	3,723	1.153	27.686	8.58	2,060	0.638	3,723	1.153	-	-
1-Culinary Arts-ext-1	1-Culinary Arts-ext-1	35.273	4.057	39.330	32.14	1,693	1.383	17.214	14.07	1,271	1.038	184	0.150	-	-
		35.273	4.057	39.330	32.14	1,693	1.383	17.214	14.07	1,271	1.038	-	-	-	-
1-Culinary Arts-int-1	1-Culinary Arts-int-1	35.611	6.713	42.324	23.94	1,790	1.013	9.026	5.11	696	0.394	563	0.319	-	-
		35.611	6.713	42.324	23.94	1,790	1.013	9.026	5.11	696	0.394	-	-	-	-
1-Culinary Arts Dishwash	1-Culinary Arts Dishwash	4.770	0.524	5.293	22.31	240	1.011	1.447	6.10	93	0.394	63	0.265	-	-
		4.770	0.524	5.293	22.31	240	1.011	1.447	6.10	93	0.394	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		271.722	0.000	271.722	27.88	13,092	1.343	70.270	7.21	13,092	1.343	4,299	0.441	-	-
1-Carpentry Tool Crib-int 1	1-Carpentry Tool Crib-int 1	1.502	0.193	1.695	8.19	81	0.393	1.101	5.32	81	0.393	47	0.225	-	-
1-Carpentry Tool Crib-int 2	1-Carpentry Tool Crib-int 2	3.244	0.430	3.675	8.44	156	0.358	2.207	5.07	156	0.358	98	0.225	-	-
1-Carpentry Vestibule	1-Carpentry Vestibule	0.885	0.089	0.974	10.82	70	0.778	0.432	4.80	70	0.778	0	0.000	-	-
1-Carpentry Lockers	1-Carpentry Lockers	1.599	0.214	1.813	7.79	92	0.397	1.250	5.37	92	0.397	0	0.000	-	-
1-Carpentry Office	1-Carpentry Office	2.910	0.353	3.263	17.26	140	0.739	1.004	5.31	140	0.739	20	0.108	-	-
1-Carpentry Storage	1-Carpentry Storage	2.850	0.364	3.214	8.67	137	0.369	1.857	5.01	137	0.369	56	0.150	-	-
1-Carpentry- ext	1-Carpentry- ext	69.528	7.449	76.977	62.32	3,337	2.701	28.502	23.07	3,337	2.701	415	0.336	-	-
1-Carpentry- int 1	1-Carpentry- int 1	72.033	17.133	89.166	33.87	3,457	1.313	12.906	4.90	3,457	1.313	880	0.334	-	-
1-Carpentry- int 2	1-Carpentry- int 2	117.169	28.311	145.480	33.42	5,623	1.292	21.010	4.83	5,623	1.292	1,455	0.334	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		213.117	0.000	213.117	26.43	10,289	1.276	68.043	8.44	10,289	1.276	2,591	0.321	-	-
1-Plumbing & Pipefit Lockers-int	1-Plumbing & Pipefit Lockers-int	2.229	0.267	2.496	8.79	155	0.544	2.095	7.37	155	0.544	71	0.250	-	-
	1-Plumbing & Pipefit Lockers-int	2.229	0.267	2.496	8.79	155	0.544	2.095	7.37	155	0.544	-	-	-	-
1-Plumbing & Pipefit Vestibule	1-Plumbing & Pipefit Vestibule	1.059	0.094	1.153	12.81	52	0.573	0.698	7.76	52	0.573	0	0.000	-	-
	1-Plumbing & Pipefit Vestibule	1.059	0.094	1.153	12.81	52	0.573	0.698	7.76	52	0.573	-	-	-	-
1-Plumbing & Pipefit Office	1-Plumbing & Pipefit Office	3.209	0.508	3.717	19.69	154	0.816	1.386	7.34	154	0.816	27	0.141	-	-
	1-Plumbing & Pipefit Office	3.209	0.508	3.717	19.69	154	0.816	1.386	7.34	154	0.816	-	-	-	-
1-Plumbing & Pipefit Tool Crib-int 1-2	1-Plumbing & Pipefit Tool Crib-int 1-2	3.331	0.380	3.711	10.09	173	0.470	2.340	6.36	173	0.470	55	0.150	-	-
	1-Plumbing & Pipefit Tool Crib-int 1-2	3.331	0.380	3.711	10.09	173	0.470	2.340	6.36	173	0.470	-	-	-	-
1-Plumbing & Pipefit- ext	1-Plumbing & Pipefit- ext	63.385	9.941	73.326	60.10	3,042	2.493	28.673	23.50	3,042	2.493	462	0.379	-	-
	1-Plumbing & Pipefit- ext	63.385	9.941	73.326	60.10	3,042	2.493	28.673	23.50	3,042	2.493	-	-	-	-
1-Plumbing & Pipefit- int 1	1-Plumbing & Pipefit- int 1	61.144	22.724	83.868	32.26	2,934	1.129	13.228	5.09	2,934	1.129	985	0.379	-	-
	1-Plumbing & Pipefit- int 1	61.144	22.724	83.868	32.26	2,934	1.129	13.228	5.09	2,934	1.129	-	-	-	-
1-Plumbing & Pipefit- int 2	1-Plumbing & Pipefit- int 2	78.761	29.095	107.856	32.56	3,780	1.141	19.623	5.92	3,780	1.141	1,258	0.380	-	-
	1-Plumbing & Pipefit- int 2	78.761	29.095	107.856	32.56	3,780	1.141	19.623	5.92	3,780	1.141	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		224.228	0.000	224.228	26.09	10,837	1.261	75.565	8.79	10,837	1.261	2,521	0.293	-	-
1-HVAC Tech-ext	1-HVAC Tech-ext	77.452	10.937	88.389	50.47	3,717	2.123	37.289	21.29	3,717	2.123	594	0.339	-	-
1-HVAC Tech-int 1	1-HVAC Tech-int 1	75.949	22.763	98.712	30.53	3,645	1.127	18.082	5.59	3,645	1.127	1,115	0.345	-	-
1-HVAC tech-int 2	1-HVAC tech-int 2	60.939	18.357	79.296	30.40	2,924	1.121	13.241	5.08	2,924	1.121	899	0.345	-	-
1-HVAC Tech Lockers	1-HVAC Tech Lockers	2.263	0.273	2.536	8.73	158	0.544	2.141	7.37	158	0.544	73	0.250	-	-
1-HVAC Tech Office	1-HVAC Tech Office	2.609	0.325	2.934	18.08	125	0.772	1.192	7.34	125	0.772	18	0.114	-	-
1-HVAC Tech Tool Crib	1-HVAC Tech Tool Crib	4.162	0.480	4.642	10.14	215	0.469	2.908	6.35	215	0.469	69	0.150	-	-
1-HVAC Tech Vestibule	1-HVAC Tech Vestibule	0.853	0.087	0.940	10.22	53	0.571	0.712	7.74	53	0.571	7	0.075	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		299.535	0.000	299.535	24.94	14,547	1.211	88.393	7.36	14,547	1.211	3,703	0.308	-	-
1-Electric Tech-ext 1	1-Electric Tech-ext 1	46.134	5.436	51.571	54.88	2,214	2.356	23.345	24.84	2,214	2.356	311	0.331	-	-
1-Electric Tech-ext 2	1-Electric Tech-ext 2	14.753	2.751	17.504	39.41	759	1.709	10.283	23.15	759	1.709	150	0.338	-	-
1-Electric Tech-int 1	1-Electric Tech-int 1	106.393	25.503	131.897	32.49	5,106	1.258	21.719	5.35	5,106	1.258	1,338	0.330	-	-
1-Electric Tech-int 2	1-Electric Tech-int 2	115.155	28.385	143.540	32.44	5,526	1.249	22.084	4.99	5,526	1.249	1,470	0.332	-	-
1-Electric Tech Vestibule	1-Electric Tech Vestibule	0.943	0.094	1.037	10.93	70	0.738	0.488	5.14	70	0.738	7	0.075	-	-
1-Electrical Tech Lockers	1-Electrical Tech Lockers	3.162	0.430	3.592	7.99	168	0.374	2.273	5.06	168	0.374	112	0.250	-	-
1-Electrical Tech Office	1-Electrical Tech Office	2.614	0.328	2.941	17.83	125	0.760	0.853	5.17	125	0.760	19	0.113	-	-
1-Electrical Tech Storage	1-Electrical Tech Storage	4.025	0.527	4.552	8.93	194	0.380	2.625	5.15	194	0.380	76	0.150	-	-
1-Electrical Tech TLT	1-Electrical Tech TLT	0.000	0.000	0.000	0.00	70	0.824	0.459	5.40	70	0.824	70	0.824	-	-
1-Electric Tech Tool Crib 2	1-Electric Tech Tool Crib 2	3.493	0.454	3.947	8.77	169	0.375	2.285	5.08	169	0.375	67	0.150	-	-
1-Electric Tech Tool Crib-1	1-Electric Tech Tool Crib-1	2.863	0.376	3.239	8.39	146	0.378	1.978	5.12	146	0.378	58	0.150	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		155.292	0.000	155.292	23.52	8,376	1.268	69.171	10.47	8,376	1.268	2,457	0.372	-	-
0-Metal Fab-ext 2	0-Metal Fab-ext 2	49.990	8.501	58.491	36.70	2,399	1.505	26.167	16.42	2,399	1.505	559	0.350	-	-
0-Metal Fab-ext 1	0-Metal Fab-ext 1	21.062	3.707	24.769	36.69	1,794	2.658	24.297	35.99	1,794	2.658	239	0.355	-	-
0-Metal Fab-int	0-Metal Fab-int	81.305	20.757	102.062	25.88	3,902	0.989	17.999	4.56	3,902	0.989	1,325	0.336	-	-
0-Metal Fab Office-int	0-Metal Fab Office-int	1.649	0.205	1.854	19.55	79	0.835	0.235	2.48	79	0.835	13	0.141	-	-
0-Metal Fab TLT-int	0-Metal Fab TLT-int	0.000	0.000	0.000	0.00	140	1.561	0.000	0.00	140	1.561	0	0.000	-	-
0-Metal Fab Tool Crib-int 1	0-Metal Fab Tool Crib-int 1	1.286	0.107	1.393	6.75	62	0.299	0.475	2.30	62	0.299	31	0.150	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		168.545	0.000	168.545	23.35	9,148	1.267	59.494	8.24	9,148	1.267	1,871	0.259	-	-
0-Auto Collision-ext-1	0-Auto Collision-ext-1	19.440	2.264	21.703	33.74	1,421	2.210	19.253	29.93	1,421	2.210	195	0.303	-	-
0-Auto Collision-ext-2	0-Auto Collision-ext-2	19.011	2.266	21.277	32.88	1,483	2.292	20.085	31.04	1,483	2.292	196	0.302	-	-
0-Auto Collision-int-1	0-Auto Collision-int-1	46.035	7.367	53.402	25.36	2,209	1.049	7.279	3.46	2,209	1.049	611	0.290	-	-
0-Auto Collision-int-2	0-Auto Collision-int-2	42.516	7.183	49.699	25.82	2,040	1.060	6.619	3.44	2,040	1.060	571	0.296	-	-
0-Auto Collision-int-3	0-Auto Collision-int-3	39.899	6.593	46.492	25.65	1,915	1.057	6.057	3.34	1,915	1.057	533	0.294	-	-
0-Auto Collision Office	0-Auto Collision Office	1.644	0.199	1.844	21.76	79	0.931	0.201	2.38	79	0.931	13	0.149	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		292.997	0.000	292.997	24.35	15,169	1.261	102.812	8.55	15,169	1.261	5,069	0.421	-	-
0-Auto Tech Lockers-int	0-Auto Tech Lockers-int	1.858	1.027	2.884	16.93	89	0.523	0.406	2.38	89	0.523	43	0.250	-	-
	0-Auto Tech Lockers-int	1.858	1.027	2.884	16.93	89	0.523	0.406	2.38	89	0.523	-	-	-	-
0-Auto Tech office-int	0-Auto Tech office-int	1.786	0.218	2.004	16.70	86	0.714	0.276	2.30	86	0.714	15	0.127	-	-
	0-Auto Tech office-int	1.786	0.218	2.004	16.70	86	0.714	0.276	2.30	86	0.714	-	-	-	-
0-Auto Tech Storage-int	0-Auto Tech Storage-int	1.688	0.159	1.847	5.72	81	0.251	0.741	2.30	81	0.251	48	0.150	-	-
	0-Auto Tech Storage-int	1.688	0.159	1.847	5.72	81	0.251	0.741	2.30	81	0.251	-	-	-	-
0-Auto Tech TLT-int	0-Auto Tech TLT-int	0.000	0.000	0.000	0.00	140	1.332	0.000	0.00	140	1.332	140	1.332	-	-
	0-Auto Tech TLT-int	0.000	0.000	0.000	0.00	140	1.332	0.000	0.00	140	1.332	-	-	-	-
0-Auto Tech Tool Crib-int-1	0-Auto Tech Tool Crib-int-1	2.297	0.218	2.515	5.78	110	0.253	1.023	2.35	110	0.253	65	0.150	-	-
	0-Auto Tech Tool Crib-int-1	2.297	0.218	2.515	5.78	110	0.253	1.023	2.35	110	0.253	-	-	-	-
0-Small Engines-ext	0-Small Engines-ext	26.445	5.330	31.776	31.45	1,269	1.256	2.995	2.96	1,269	1.256	354	0.350	-	-
	0-Small Engines-ext	26.445	5.330	31.776	31.45	1,269	1.256	2.995	2.96	1,269	1.256	-	-	-	-
0-Auto Tech-ext-1	0-Auto Tech-ext-1	36.379	4.438	40.817	36.21	2,713	2.408	36.752	32.61	2,713	2.408	354	0.314	-	-
	0-Auto Tech-ext-1	36.379	4.438	40.817	36.21	2,713	2.408	36.752	32.61	2,713	2.408	-	-	-	-
0-Auto Tech-ext-2	0-Auto Tech-ext-2	47.669	4.367	52.036	51.90	2,288	2.282	29.837	29.76	2,288	2.282	326	0.325	-	-
	0-Auto Tech-ext-2	47.669	4.367	52.036	51.90	2,288	2.282	29.837	29.76	2,288	2.282	-	-	-	-
0-Auto Tech-int-1	0-Auto Tech-int-1	41.446	8.026	49.472	27.18	1,989	1.093	7.049	3.87	1,989	1.093	572	0.314	-	-
	0-Auto Tech-int-1	41.446	8.026	49.472	27.18	1,989	1.093	7.049	3.87	1,989	1.093	-	-	-	-
0-Auto Tech-int-2	0-Auto Tech-int-2	57.862	11.647	69.509	26.96	2,777	1.077	9.156	3.55	2,777	1.077	818	0.317	-	-
	0-Auto Tech-int-2	57.862	11.647	69.509	26.96	2,777	1.077	9.156	3.55	2,777	1.077	-	-	-	-
0-Auto Tech-int-3	0-Auto Tech-int-3	64.920	12.904	77.823	26.73	3,116	1.070	10.167	3.49	3,116	1.070	918	0.315	-	-
	0-Auto Tech-int-3	64.920	12.904	77.823	26.73	3,116	1.070	10.167	3.49	3,116	1.070	-	-	-	-
0-Auto Tech-ext-3	0-Auto Tech-ext-3	10.648	1.873	12.520	29.30	511	1.196	4.408	10.32	511	1.196	134	0.313	-	-
	0-Auto Tech-ext-3	10.648	1.873	12.520	29.30	511	1.196	4.408	10.32	511	1.196	-	-	-	-

Model Data

Project file	NEMT Remote Sites.mit
Source HVAC file	Proposed.asp
HVAC file snapshot	Vista\NEMT Remote Sites.asp
Model floor area	5,561.4 ft ²
Building conditioned floor area	5,561.4 ft ²
Building conditioned volume	72,320.0 ft ³
Number of conditioned rooms	17
Load analysis methodology	ASHRAE Heat Balance Method
Calculated	2022/06/29 13:32
Version No.	2022.0.0.0

Location Data

Location	Beverly Municipal , Massachusetts
Latitude	42.58 N
Longitude	70.92 W
Altitude	108.3 ft
Time Zone	5.0 hours behind GMT

Design Weather Data

Source	ASHRAE design weather database
Monthly percentile:	
For heating loads design weather	99.60 %
For cooling loads design weather	0.40 %
Barometric pressure	29.8070 inHg
Air density	0.0749 lb/ft ³
Air specific heat	0.2434 Btu/lb·°F
Density-specific heat product	0.0591 Btu/ft ³ ·°F
Summer ground reflectance	0.2
Winter ground reflectance	0.2
Carbon dioxide (ambient)	400.00 ppm

Cooling Calculation Data

Results file	NEMT Remote Sites.clg
Calculated	2022/06/28 14:19
Profile Month	May - Sep
Max outdoor temp. dry bulb	93.2 °F
Max outdoor temp. wet bulb	76.5 °F

Heating Calculation Data

Results file	NEMT Remote Sites.htg
Calculated	2022/06/28 14:19
Profile Month	Jan
Outdoor winter design temp	4.1 °F

Project Loads Summary

Cooling loads:	kBtu/h	Btu/h·ft ²
Coincident peak space load	90.51	16.27
Heating loads:		
Coincident peak space load	90.39	16.25



Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LR103_Elev. Machine Rm		0.000	0.000	0.000	0.00	100	0.984	2.179	21.52	100	0.984	0	0.000	-	-
	LR103_Elev. Machine Rm	0.000	0.000	0.000	0.00	100	0.984	2.179	21.52	100	0.984	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		62.763	0.000	62.763	21.95	2,869	1.003	42.156	14.74	2,590	0.906	1,327	0.464	-	-
708_Team Locker	708_Team Locker	14.903	17.844	32.747	39.91	681	0.830	7.318	8.92	565	0.689	462	0.562	-	-
106_Girls Locker	106_Girls Locker	15.255	15.536	30.791	47.05	697	1.065	6.066	9.27	477	0.729	399	0.610	-	-
107_Boys Locker	107_Boys Locker	15.564	15.540	31.103	46.90	711	1.073	6.428	9.69	494	0.744	400	0.603	-	-
690_Coach Office	690_Coach Office	1.754	0.252	2.006	16.35	80	0.654	1.035	8.44	55	0.449	15	0.126	-	-
691_Coach Office	691_Coach Office	1.743	0.252	1.995	16.23	80	0.648	1.038	8.45	55	0.449	15	0.126	-	-
LR202_Corridor	LR202_Corridor	13.544	0.201	13.744	28.88	619	1.301	20.270	42.60	944	1.984	36	0.075	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LRS1_Stair 1-1	LRS1_Stair 1-1	4.125	0.138	4.262	15.25	447	1.598	7.818	27.97	447	1.598	0	0.000	-	-
		4.125	0.138	4.262	15.25	447	1.598	7.818	27.97	447	1.598	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LR104_Field Maint. Garage	LR104_Field Maint. Garage	4.783	0.549	5.332	4.78	596	0.534	10.426	9.34	596	0.534	0	0.000	-	-
		4.783	0.549	5.332	4.78	596	0.534	10.426	9.34	596	0.534	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LR105_TLT	LR105_TLT	0.578	0.025	0.604	9.20	70	1.067	0.972	14.81	70	1.067	0	0.000	-	-
		0.578	0.025	0.604	9.20	70	1.067	0.972	14.81	70	1.067	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
710_TLT/Shower	710_TLT/Shower	0.953	0.053	1.006	7.28	84	0.608	1.472	10.64	84	0.608	0	0.000	-	-
		0.953	0.053	1.006	7.28	84	0.608	1.472	10.64	84	0.608	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LR101_Vestibule	LR101_Vestibule	7.063	0.077	7.140	45.55	416	2.656	7.288	46.50	416	2.656	0	0.000	-	-
		7.063	0.077	7.140	45.55	416	2.656	7.288	46.50	416	2.656	-	-	-	-



Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LR102_Team Room	LR102_Team Room	2.483	2.236	4.719	41.49	112	0.985	2.452	21.55	112	0.985	0	0.000	-	-
		2.483	2.236	4.719	41.49	112	0.985	2.452	21.55	112	0.985	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LRS1_Stair 2	LRS1_Stair 2	5.215	0.118	5.333	19.08	433	1.550	7.582	27.13	433	1.550	0	0.000	-	-
		5.215	0.118	5.333	19.08	433	1.550	7.582	27.13	433	1.550	-	-	-	-

Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
688_TLT/Shower	688_TLT/Shower	1.548	0.049	1.597	10.74	87	0.587	1.529	10.28	87	0.587	0	0.000	-	-
		1.548	0.049	1.597	10.74	87	0.587	1.529	10.28	87	0.587	-	-	-	-



Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
689_TLT/Shower	689_TLT/Shower	1.528	0.048	1.576	10.82	86	0.588	1.500	10.30	86	0.588	0	0.000	-	-
		1.528	0.048	1.576	10.82	86	0.588	1.500	10.30	86	0.588	-	-	-	-



Zone	Rooms	Sensible Cooling Load (kBtu/h)	Latent Cooling Load (kBtu/h)	Total Cooling Load (kBtu/h)	Total Cooling Load (Btu/h-ft²)	Cooling Airflow (cfm)	Cooling Airflow (cfm/ft²)	Heating Load (kBtu/h)	Heating Load (Btu/h-ft²)	Heating Airflow (cfm)	Heating Airflow (cfm/ft²)	Outdoor Airflow Req. (cfm)	Outdoor Airflow Req. (cfm/ft²)	Min OA Airflow (cfm)	Min OA Airflow (cfm/ft²)
System		-	0.000	-	-	-	-	-	-	-	-	0	0.000	-	-
LR201_Vestibule	LR201_Vestibule	3.375	0.066	3.441	21.95	286	1.828	5.014	31.99	286	1.828	0	0.000	-	-
		3.375	0.066	3.441	21.95	286	1.828	5.014	31.99	286	1.828	-	-	-	-

Zone Loads Report

System: 09 p Dedicated Outd...

NEMT Remote Sites
690_Coach Office

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 14:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	-	0	0.0	0.0
Roofs	348	-	348	2.8	17.4
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	48	52	99	0.8	5.0
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	258	-	258	2.1	12.9
Internal Floors	-33	-	-33	-0.3	-1.6
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	621	52	673	5.5	
Internal Gains					
Lights	464	-	464	3.8	23.2
People	250	200	450	3.7	22.4
Misc, Computers, Equip	418	0	418	3.4	20.9
Sub Total	1,133	200	1,333	10.9	
TOTAL	1,754	252	2,006	16.4	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,754
Latent cooling load (Btu/h):	252
Sensible heat ratio:	0.87
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	0	0.0	0.0
Roofs	-396	-396	-3.2	38.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-177	-177	-1.4	17.1
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-447	-447	-3.6	43.2
Internal Floors	-15	-15	-0.1	1.5
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,035	-1,035	-8.4	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,035	-1,035	-8.4	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,035
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE			
	Total Area ft²	Glazing ft²	U-value¹ Btu/h-ft²-°F
External			
Wall (above grade)	-	-	-
Below Grade Walls	-	-	-
Windows²	-	-	-
Doors	-	-	-
Floors³	-	-	-
Roofs³	122.6	-	0.05
COMBINED	122.6	-	0.05
Internal			
Ceilings	-	-	-
Floors	122.6	-	0.19
Partitions⁴	558.0	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	75.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	68.1
Dry Resultant Temperature	75.9	69.0
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	80	55
Reheat Minimum (design)	15	15
Leakage at Design Flow	0	0
Ventilation (requirement)	15	15
Exhaust (requirement)	-	-
Infiltration	2	2

CHECKS	
Number of People	1.00
ft²/Person	122.62
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	14.30
Btu/h-ft² - Heating	8.44
ft²/ton - Cooling (sensible)	839.01
ft²/ton - Heating	1,421.26
cfm/ft² - Cooling	0.65
cfm/ft² - Heating	0.45
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.13
Outdoor Air cfm/person	15.45

Zone Loads Report

System: 09 p Dedicated Outd...

NEMT Remote Sites

LR202_Corridor

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)		7 / 14:30			
Outside Air (DB/WB/RH)		93.2 °F / 76.5 °F / 46.7 %			
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	401	-	401	0.8	2.9
Roofs	1,284	-	1,284	2.7	9.3
Ground/Exposed Floors	-350	-	-350	-0.7	-2.5
External Doors	0	-	0	0.0	0.0
Windows Conduction	5,929	-	5,929	12.5	43.1
Skylights Conduction	0	-	0	0.0	0.0
Solar	6,222	-	6,222	13.1	45.3
Infiltration	185	201	386	0.8	2.8
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Openings	-1,012	-	-1,012	-2.1	-7.4
Internal Floors	-512	-	-512	-1.1	-3.7
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	12,147	201	12,348	25.9	
Internal Gains					
Lights	1,072	-	1,072	2.3	7.8
People	0	0	0	0.0	0.0
Misc, Computers, Equip	325	0	325	0.7	2.4
Sub Total	1,397	0	1,397	2.9	
TOTAL	13,544	201	13,744	28.9	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	13,544
Latent cooling load (Btu/h):	201
Sensible heat ratio:	0.99
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)		Heating Design		
Outside Air (DB/WB/RH)		4.1 °F / 2.2 °F / 50.4 %		
	Zone	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-1,267	-1,267	-2.7	6.2
Roofs	-1,396	-1,396	-2.9	6.9
Ground/Exposed Floors	-73	-73	-0.2	0.4
External Doors	0	0	0.0	0.0
Windows Conduction	-19,064	-19,064	-40.1	94.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-686	-686	-1.4	3.4
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Openings	1,872	1,872	3.9	-9.2
Internal Floors	342	342	0.7	-1.7
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-20,270	-20,270	-42.6	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-20,270	-20,270	-42.6	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	20,270
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	828.0	598.2	72.2	0.42
Below Grade Walls	-	-	-	-
Windows²	598.2	598.2	100.0	0.55
Doors	-	-	-	-
Floors	103.5	-	-	0.07
Roofs³	475.9	-	-	0.05
COMBINED	1,407.4	598.2	42.5	0.27
Internal				
Ceilings	-	-	-	-
Floors	372.4	-	-	0.19
Partitions⁴	1,146.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	75.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	80.4	58.6
Dry Resultant Temperature	77.7	64.3
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	619	944
Reheat Minimum (design)	36	36
Leakage at Design Flow	0	0
Ventilation (requirement)	36	36
Exhaust (requirement)	-	-
Infiltration	10	10

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	28.46
Btu/h-ft² - Heating	42.60
ft²/ton - Cooling (sensible)	421.63
ft²/ton - Heating	281.72
cfm/ft² - Cooling	1.30
cfm/ft² - Heating	1.98
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.07
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LR104_Field Maint. Garage

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	3,199	-	3,199	2.9	60.0
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-2,258	-	-2,258	-2.0	-42.4
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	503	549	1,052	0.9	19.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	232	-	232	0.2	4.3
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-54	-	-54	0.0	-1.0
Sub Total	1,622	549	2,171	1.9	
Internal Gains					
Lights	2,399	-	2,399	2.1	45.0
People	0	0	0	0.0	0.0
Misc. Computers, Equip	762	0	762	0.7	14.3
Sub Total	3,161	0	3,161	2.8	
TOTAL	4,783	549	5,332	4.8	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	4,783
Latent cooling load (Btu/h):	549
Sensible heat ratio:	0.90
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-6,315	-6,315	-5.7	60.6
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-1,788	-1,788	-1.6	17.2
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-1,877	-1,877	-1.7	18.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-275	-275	-0.2	2.6
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-171	-171	-0.2	1.6
Sub Total	-10,426	-10,426	-9.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-10,426	-10,426	-9.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	10,426
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	1,057.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	1,116.0	-	-	0.07
Roofs³	-	-	-	-
COMBINED	2,173.0	-	-	0.08
Internal				
Ceilings	1,116.0	-	-	0.19
Floors	-	-	-	-
Partitions⁴	868.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	75.8	66.5
Dry Resultant Temperature	75.4	68.2
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	596	596
Reheat Minimum (design)	596	596
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	26	26

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	4.29
Btu/h-ft² - Heating	9.34
ft²/ton - Cooling (sensible)	2,799.91
ft²/ton - Heating	1,284.44
cfm/ft² - Cooling	0.53
cfm/ft² - Heating	0.53
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 a Packaged Termi...

NEMT Remote Sites
LR103_Elev. Machine Rm

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			5 / 12:30 †		
Outside Air (DB/WB/RH)			84.1 °F / 66.2 °F / 38.3 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses					
External Walls	406	-	406	4.0	-
Roofs	260	-	260	2.6	-
Ground/Exposed Floors	-408	-	-408	-4.0	-
External Doors	0	-	0	0.0	-
Windows Conduction	0	-	0	0.0	-
Skylights Conduction	0	-	0	0.0	-
Solar	0	-	0	0.0	-
Infiltration	13	0	13	0.1	-
Nat/Aux Vent	0	0	0	0.0	-
Internal Building Gains/Losses					
Internal Walls/Opening	-202	-	-202	-2.0	-
Internal Floors	0	-	0	0.0	-
Internal Air & Furniture	-69	-	-69	-0.7	-
Ceilings	0	-	0	0.0	-
Sub Total	0	0	0	0.0	
Internal Gains					
Lights	0	-	0	0.0	-
People	0	0	0	0.0	-
Misc, Computers, Equip	0	0	0	0.0	-
Sub Total	0	0	0	0.0	
TOTAL	0	0	0	0.0	0

COOLING SUMMARY	
Sensible cooling load (Btu/h):	0
Latent cooling load (Btu/h):	0
Sensible heat ratio:	0.05
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	80.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses				
External Walls	-1,545	-1,545	-15.3	70.9
Roofs	-287	-287	-2.8	13.2
Ground/Exposed Floors	-57	-57	-0.6	2.6
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-157	-157	-1.6	7.2
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-133	-133	-1.3	6.1
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-2,179	-2,179	-21.5	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-2,179	-2,179	-21.5	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	2,179
Design zone air temp for Supply Airflow calculation (°F):	65.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	283.5	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	101.2	-	-	0.07
Roofs³	101.2	-	-	0.05
COMBINED	486.0	-	-	0.08
Internal				
Ceilings	-	-	-	-
Floors	-	-	-	-
Partitions⁴	283.5	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	80.0	65.0
Master Room (actual)	78.3	65.0
Mean Radiant Temperature	78.5	60.3
Dry Resultant Temperature	78.4	62.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	100	100
Reheat Minimum (design)	100	100
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	2	2

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	0.00
Btu/h-ft² - Heating	21.52
ft²/ton - Cooling (sensible)	6,550,475,389.10
ft²/ton - Heating	557.51
cfm/ft² - Cooling	0.98
cfm/ft² - Heating	0.98
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

† The time of peak defaults to 12:30 whenever there is no cooling as a result of either the 'Operation Profile' being off continuously or the 'Conditioned' status on the Room Template being set to "No (free-floating for Room Loads)".

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

688_TLT/Shower

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 15:30		
Outside Air (DB/WB/RH)			92.5 °F / 75.2 °F / 45.0 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	481	-	481	3.2	30.1
Roofs	356	-	356	2.4	22.3
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	57	49	106	0.7	6.6
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	113	-	113	0.8	7.0
Internal Floors	-57	-	-57	-0.4	-3.6
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	950	49	999	6.7	
Internal Gains					
Lights	497	-	497	3.3	31.1
People	0	0	0	0.0	0.0
Misc, Computers, Equip	101	0	101	0.7	6.3
Sub Total	598	0	598	4.0	
TOTAL	1,548	49	1,597	10.7	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,548
Latent cooling load (Btu/h):	49
Sensible heat ratio:	0.97
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-708	-708	-4.8	46.3
Roofs	-477	-477	-3.2	31.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-214	-214	-1.4	14.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-119	-119	-0.8	7.8
Internal Floors	-10	-10	-0.1	0.7
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,529	-1,529	-10.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,529	-1,529	-10.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,529
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	117.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors³	-	-	-	-
Roofs³	148.7	-	-	0.05
COMBINED	265.7	-	-	0.07
Internal				
Ceilings	-	-	-	-
Floors	148.7	-	-	0.19
Partitions⁴	507.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	67.5
Dry Resultant Temperature	75.9	68.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	87	87
Reheat Minimum (design)	87	87
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	10.41
Btu/h-ft² - Heating	10.28
ft²/ton - Cooling (sensible)	1,152.61
ft²/ton - Heating	1,167.13
cfm/ft² - Cooling	0.59
cfm/ft² - Heating	0.59
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LR201_Vestibule

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 14:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	609	-	609	3.9	17.7
Roofs	432	-	432	2.8	12.5
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	850	-	850	5.4	24.7
Skylights Conduction	0	-	0	0.0	0.0
Solar	884	-	884	5.6	25.7
Infiltration	61	66	127	0.8	3.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	136	-	136	0.9	4.0
Internal Floors	-57	-	-57	-0.4	-1.7
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	2,915	66	2,981	19.0	
Internal Gains					
Lights	353	-	353	2.3	10.3
People	0	0	0	0.0	0.0
Misc, Computers, Equip	107	0	107	0.7	3.1
Sub Total	460	0	460	2.9	
TOTAL	3,375	66	3,441	22.0	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	3,375
Latent cooling load (Btu/h):	66
Sensible heat ratio:	0.98
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-1,299	-1,299	-8.3	25.9
Roofs	-472	-472	-3.0	9.4
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	-2,695	-2,695	-17.2	53.8
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-226	-226	-1.4	4.5
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-274	-274	-1.7	5.5
Internal Floors	-48	-48	-0.3	1.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-5,014	-5,014	-32.0	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-5,014	-5,014	-32.0	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	5,014
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	312.0	82.4	26.4	0.21
Below Grade Walls	-	-	-	-
Windows²	82.4	82.4	100.0	0.55
Doors	-	-	-	-
Floors³	-	-	-	-
Roofs³	156.8	-	-	0.05
COMBINED	468.8	82.4	17.6	0.16
Internal				
Ceilings	-	-	-	-
Floors	156.8	-	-	0.19
Partitions⁴	312.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	79.2	61.1
Dry Resultant Temperature	77.1	65.6
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	286	286
Reheat Minimum (design)	286	286
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	21.53
Btu/h-ft² - Heating	31.99
ft²/ton - Cooling (sensible)	557.29
ft²/ton - Heating	375.12
cfm/ft² - Cooling	1.83
cfm/ft² - Heating	1.83
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LR105_TLT

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 16:30		
Outside Air (DB/WB/RH)			91.4 °F / 74.9 °F / 46.5 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	432	-	432	6.6	71.6
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-136	-	-136	-2.1	-22.6
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	28	25	54	0.8	8.9
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	5	-	5	0.1	0.8
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-15	-	-15	-0.2	-2.5
Sub Total	314	25	340	5.2	
Internal Gains					
Lights	219	-	219	3.3	36.3
People	0	0	0	0.0	0.0
Misc, Computers, Equip	45	0	45	0.7	7.4
Sub Total	264	0	264	4.0	
TOTAL	578	25	604	9.2	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	578
Latent cooling load (Btu/h):	25
Sensible heat ratio:	0.96
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-634	-634	-9.7	65.2
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-112	-112	-1.7	11.5
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-110	-110	-1.7	11.4
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-114	-114	-1.7	11.7
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-1	-1	0.0	0.1
Sub Total	-972	-972	-14.8	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-972	-972	-14.8	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	972
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	105.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors	65.6	-	-	0.07
Roofs ³	-	-	-	-
COMBINED	170.6	-	-	0.08
Internal				
Ceilings	65.6	-	-	0.19
Floors	-	-	-	-
Partitions ⁴	350.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.0	67.4
Dry Resultant Temperature	75.5	68.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	70	70
Reheat Minimum (design)	70	70
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	2	2

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	8.81
Btu/h-ft² - Heating	14.81
ft²/ton - Cooling (sensible)	1,361.32
ft²/ton - Heating	810.03
cfm/ft² - Cooling	1.07
cfm/ft² - Heating	1.07
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 09 p Dedicated Outd...

NEMT Remote Sites
691_Coach Office

IES VIRTUAL ENVIRONMENT
VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 14:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	-	0	0.0	0.0
Roofs	349	-	349	2.8	17.5
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	48	52	100	0.8	5.0
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	257	-	257	2.1	12.9
Internal Floors	-46	-	-46	-0.4	-2.3
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	608	52	660	5.4	
Internal Gains					
Lights	465	-	465	3.8	23.3
People	250	200	450	3.7	22.6
Misc, Computers, Equip	419	0	419	3.4	21.0
Sub Total	1,135	200	1,335	10.9	
TOTAL	1,743	252	1,995	16.2	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,743
Latent cooling load (Btu/h):	252
Sensible heat ratio:	0.87
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	0	0.0	0.0
Roofs	-397	-397	-3.2	38.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-177	-177	-1.4	17.1
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-442	-442	-3.6	42.6
Internal Floors	-23	-23	-0.2	2.2
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,038	-1,038	-8.5	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,038	-1,038	-8.5	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,038
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE			
	Total Area ft²	Glazing ft²	U-value¹ Btu/h-ft²-°F
External			
Wall (above grade)	-	-	-
Below Grade Walls	-	-	-
Windows²	-	-	-
Doors	-	-	-
Floors³	-	-	-
Roofs³	122.9	-	0.05
COMBINED	122.9	-	0.05
Internal			
Ceilings	-	-	-
Floors	122.9	-	0.19
Partitions⁴	558.0	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	75.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.7	68.1
Dry Resultant Temperature	75.9	69.0
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	80	55
Reheat Minimum (design)	15	15
Leakage at Design Flow	0	0
Ventilation (requirement)	15	15
Exhaust (requirement)	-	-
Infiltration	2	2

CHECKS	
Number of People	1.00
ft²/Person	122.88
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	14.18
Btu/h-ft² - Heating	8.45
ft²/ton - Cooling (sensible)	845.98
ft²/ton - Heating	1,419.98
cfm/ft² - Cooling	0.65
cfm/ft² - Heating	0.45
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.13
Outdoor Air cfm/person	15.47

Zone Loads Report

System: 09 p Dedicated Outd...

NEMT Remote Sites

107_Boys Locker

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 14:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,284	-	1,284	1.9	4.1
Roofs	1,849	-	1,849	2.8	5.9
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	258	280	537	0.8	1.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	342	-	342	0.5	1.1
Internal Floors	-373	-	-373	-0.6	-1.2
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	3,361	280	3,640	5.5	
Internal Gains					
Lights	1,697	-	1,697	2.6	5.5
People	9,940	15,260	25,200	38.0	81.0
Misc. Computers, Equip	566	0	566	0.9	1.8
Sub Total	12,203	15,260	27,463	41.4	
TOTAL	15,564	15,540	31,103	46.9	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	15,564
Latent cooling load (Btu/h):	15,540
Sensible heat ratio:	0.50
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,382	-2,382	-3.6	37.1
Roofs	-2,104	-2,104	-3.2	32.7
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-956	-956	-1.4	14.9
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-1,045	-1,045	-1.6	16.3
Internal Floors	60	60	0.1	-0.9
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-6,428	-6,428	-9.7	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-6,428	-6,428	-9.7	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	6,428
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	399.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors ³	-	-	-	-
Roofs ³	663.2	-	-	0.05
COMBINED	1,062.2	-	-	0.07
Internal				
Ceilings	-	-	-	-
Floors	663.2	-	-	0.19
Partitions ⁴	855.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	75.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	78.3	66.3
Dry Resultant Temperature	76.6	68.2
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	711	494
Reheat Minimum (design)	400	400
Leakage at Design Flow	0	0
Ventilation (requirement)	400	400
Exhaust (requirement)	166	166
Infiltration	13	13

CHECKS	
Number of People	14.00
ft²/Person	47.37
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	23.47
Btu/h-ft² - Heating	9.69
ft²/ton - Cooling (sensible)	511.34
ft²/ton - Heating	1,238.11
cfm/ft² - Cooling	1.07
cfm/ft² - Heating	0.74
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.60
Outdoor Air cfm/person	28.55

Zone Loads Report

System: 09 p Dedicated Outd...

NEMT Remote Sites
708_Team Locker

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,801	-	1,801	2.2	5.5
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-1,755	-	-1,755	-2.1	-5.4
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	370	404	774	0.9	2.4
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	521	-	521	0.6	1.6
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-195	-	-195	-0.2	-0.6
Sub Total	743	404	1,147	1.4	
Internal Gains					
Lights	2,100	-	2,100	2.6	6.4
People	11,360	17,440	28,800	35.1	87.9
Misc, Computers, Equip	700	0	700	0.9	2.1
Sub Total	14,160	17,440	31,601	38.5	
TOTAL	14,904	17,844	32,747	39.9	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	14,904
Latent cooling load (Btu/h):	17,844
Sensible heat ratio:	0.46
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-3,395	-3,395	-4.1	46.4
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-1,366	-1,366	-1.7	18.7
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-1,380	-1,380	-1.7	18.9
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-1,123	-1,123	-1.4	15.3
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-54	-54	-0.1	0.7
Sub Total	-7,318	-7,318	-8.9	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,318	-7,318	-8.9	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,318
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	567.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	820.6	-	-	0.07
Roofs³	-	-	-	-
COMBINED	1,387.6	-	-	0.08
Internal				
Ceilings	820.6	-	-	0.19
Floors	-	-	-	-
Partitions⁴	1,204.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	75.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	67.0
Dry Resultant Temperature	75.9	68.5
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	681	565
Reheat Minimum (design)	462	462
Leakage at Design Flow	0	0
Ventilation (requirement)	462	462
Exhaust (requirement)	205	205
Infiltration	19	19

CHECKS	
Number of People	16.00
ft²/Person	51.29
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	18.16
Btu/h-ft² - Heating	8.92
ft²/ton - Cooling (sensible)	660.75
ft²/ton - Heating	1,345.66
cfm/ft² - Cooling	0.83
cfm/ft² - Heating	0.69
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.56
Outdoor Air cfm/person	28.85

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LR101_Vestibule

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 9:30		
Outside Air (DB/WB/RH)			83.5 °F / 73.8 °F / 63.5 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	127	-	127	0.8	1.8
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-1,644	-	-1,644	-10.5	-23.0
External Doors	26	-	26	0.2	0.4
Windows Conduction	729	-	729	4.7	10.2
Skylights Conduction	0	-	0	0.0	0.0
Solar	8,399	-	8,399	53.6	117.6
Infiltration	27	77	104	0.7	1.5
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	-712	-	-712	-4.5	-10.0
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-350	-	-350	-2.2	-4.9
Sub Total	6,603	77	6,680	42.6	
Internal Gains					
Lights	353	-	353	2.3	4.9
People	0	0	0	0.0	0.0
Misc. Computers, Equip	107	0	107	0.7	1.5
Sub Total	460	0	460	2.9	
TOTAL	7,063	77	7,140	45.5	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	7,063
Latent cooling load (Btu/h):	77
Sensible heat ratio:	0.99
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-920	-920	-5.9	12.6
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-105	-105	-0.7	1.4
External Doors	-506	-506	-3.2	6.9
Windows Conduction	-5,587	-5,587	-35.6	76.7
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-264	-264	-1.7	3.6
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	41	41	0.3	-0.6
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	51	51	0.3	-0.7
Sub Total	-7,288	-7,288	-46.5	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,288	-7,288	-46.5	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,288
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	343.0	175.7	51.2	0.33
Below Grade Walls	-	-	-	-
Windows²	175.7	175.7	100.0	0.55
Doors	21.0	-	-	0.41
Floors	156.8	-	-	0.07
Roofs³	-	-	-	-
COMBINED	520.8	175.7	33.7	0.25
Internal				
Ceilings	156.8	-	-	0.19
Floors	-	-	-	-
Partitions⁴	364.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	83.1	58.5
Dry Resultant Temperature	79.0	64.2
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	416	416
Reheat Minimum (design)	416	416
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	4	4

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	45.06
Btu/h-ft² - Heating	46.50
ft²/ton - Cooling (sensible)	266.34
ft²/ton - Heating	258.09
cfm/ft² - Cooling	2.66
cfm/ft² - Heating	2.66
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LRS1_Stair 2

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 15:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,300	-	1,300	4.6	24.4
Roofs	712	-	712	2.5	13.4
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	1,243	-	1,243	4.4	23.3
Skylights Conduction	0	-	0	0.0	0.0
Solar	1,225	-	1,225	4.4	23.0
Infiltration	111	118	229	0.8	4.3
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	-29	-	-29	-0.1	-0.5
Internal Floors	-196	-	-196	-0.7	-3.7
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	4,366	118	4,484	16.0	
Internal Gains					
Lights	658	-	658	2.4	12.3
People	0	0	0	0.0	0.0
Misc, Computers, Equip	191	0	191	0.7	3.6
Sub Total	849	0	849	3.0	
TOTAL	5,215	118	5,333	19.1	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	5,215
Latent cooling load (Btu/h):	118
Sensible heat ratio:	0.98
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,536	-2,536	-9.1	33.4
Roofs	-844	-844	-3.0	11.1
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	-4,037	-4,037	-14.4	53.2
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-403	-403	-1.4	5.3
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	215	215	0.8	-2.8
Internal Floors	22	22	0.1	-0.3
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-7,582	-7,582	-27.1	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,582	-7,582	-27.1	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,582
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	570.0	123.0	21.6	0.19
Below Grade Walls	-	-	-	-
Windows²	123.0	123.0	100.0	0.55
Doors	-	-	-	-
Floors³	-	-	-	-
Roofs³	279.5	-	-	0.05
COMBINED	849.5	123.0	14.5	0.14
Internal				
Ceilings	-	-	-	-
Floors	279.5	-	-	0.19
Partitions⁴	312.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	79.0	61.4
Dry Resultant Temperature	77.0	65.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	433	433
Reheat Minimum (design)	433	433
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	6	6

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	18.66
Btu/h-ft² - Heating	27.13
ft²/ton - Cooling (sensible)	643.16
ft²/ton - Heating	442.36
cfm/ft² - Cooling	1.55
cfm/ft² - Heating	1.55
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 09 p Dedicated Outd...

NEMT Remote Sites

106_Girls Locker

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 15:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,318	-	1,318	2.0	4.3
Roofs	1,689	-	1,689	2.6	5.5
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	261	276	537	0.8	1.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	223	-	223	0.3	0.7
Internal Floors	-409	-	-409	-0.6	-1.3
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	3,082	276	3,358	5.1	
Internal Gains					
Lights	1,675	-	1,675	2.6	5.4
People	9,940	15,260	25,200	38.5	81.8
Misc. Computers, Equip	558	0	558	0.9	1.8
Sub Total	12,173	15,260	27,433	41.9	
TOTAL	15,255	15,536	30,791	47.1	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	15,255
Latent cooling load (Btu/h):	15,536
Sensible heat ratio:	0.50
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Value	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,315	-2,315	-3.5	38.2
Roofs	-2,081	-2,081	-3.2	34.3
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-944	-944	-1.4	15.6
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-728	-728	-1.1	12.0
Internal Floors	1	1	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-6,066	-6,066	-9.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-6,066	-6,066	-9.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	6,066
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	387.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors ³	-	-	-	-
Roofs ³	654.4	-	-	0.05
COMBINED	1,041.4	-	-	0.06
Internal				
Ceilings	-	-	-	-
Floors	654.4	-	-	0.19
Partitions ⁴	861.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	75.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	78.2	66.5
Dry Resultant Temperature	76.6	68.3
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	697	477
Reheat Minimum (design)	399	399
Leakage at Design Flow	0	0
Ventilation (requirement)	399	399
Exhaust (requirement)	164	164
Infiltration	13	13

CHECKS	
Number of People	14.00
ft²/Person	46.75
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	23.31
Btu/h-ft² - Heating	9.27
ft²/ton - Cooling (sensible)	514.79
ft²/ton - Heating	1,294.72
cfm/ft² - Cooling	1.07
cfm/ft² - Heating	0.73
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.61
Outdoor Air cfm/person	28.51

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LRS1_Stair 1-1

IES VIRTUAL ENVIRONMENT

VE 2022

IES

COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,835	-	1,835	6.6	43.1
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-675	-	-675	-2.4	-15.8
External Doors	408	-	408	1.5	9.6
Windows Conduction	972	-	972	3.5	22.8
Skylights Conduction	0	-	0	0.0	0.0
Solar	893	-	893	3.2	21.0
Infiltration	126	138	264	0.9	6.2
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	-187	-	-187	-0.7	-4.4
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-98	-	-98	-0.3	-2.3
Sub Total	3,276	138	3,413	12.2	
Internal Gains					
Lights	658	-	658	2.4	15.4
People	0	0	0	0.0	0.0
Misc, Computers, Equip	191	0	191	0.7	4.5
Sub Total	849	0	849	3.0	
TOTAL	4,125	138	4,262	15.2	100

COOLING SUMMARY		
Sensible cooling load (Btu/h):		4,125
Latent cooling load (Btu/h):		138
Sensible heat ratio:		0.97
Design Supply Airflow calculated per:	Sensible Loads	
Design zone air temp for Supply Airflow calculation (°F):		200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,975	-2,975	-10.6	38.1
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-302	-302	-1.1	3.9
External Doors	-1,050	-1,050	-3.8	13.4
Windows Conduction	-3,352	-3,352	-12.0	42.9
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-470	-470	-1.7	6.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	350	350	1.3	-4.5
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-18	-18	-0.1	0.2
Sub Total	-7,818	-7,818	-28.0	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,818	-7,818	-28.0	100

HEATING SUMMARY		
Sensible heating load (Btu/h):		7,818
Design zone air temp for Supply Airflow calculation (°F):		70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	623.0	101.5	16.3	0.17
Below Grade Walls	-	-	-	-
Windows²	101.5	101.5	100.0	0.55
Doors	42.0	-	-	0.41
Floors	279.5	-	-	0.07
Roofs³	-	-	-	-
COMBINED	944.5	101.5	10.7	0.15
Internal				
Ceilings	279.5	-	-	0.19
Floors	-	-	-	-
Partitions⁴	364.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	77.8	62.0
Dry Resultant Temperature	76.4	66.0
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	447	447
Reheat Minimum (design)	447	447
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	7	7

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	14.76
Btu/h-ft² - Heating	27.97
ft²/ton - Cooling (sensible)	813.18
ft²/ton - Heating	429.04
cfm/ft² - Cooling	1.60
cfm/ft² - Heating	1.60
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

LR102_Team Room

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	780	-	780	6.9	16.5
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-238	-	-238	-2.1	-5.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	51	56	107	0.9	2.3
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	72	-	72	0.6	1.5
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	10	-	10	0.1	0.2
Sub Total	675	56	731	6.4	
Internal Gains					
Lights	291	-	291	2.6	6.2
People	1,420	2,180	3,600	31.6	76.3
Misc, Computers, Equip	97	0	97	0.9	2.1
Sub Total	1,808	2,180	3,988	35.1	
TOTAL	2,483	2,236	4,719	41.5	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	2,483
Latent cooling load (Btu/h):	2,236
Sensible heat ratio:	0.53
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	80.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-1,942	-1,942	-17.1	79.2
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-170	-170	-1.5	6.9
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-191	-191	-1.7	7.8
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-56	-56	-0.5	2.3
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-93	-93	-0.8	3.8
Sub Total	-2,452	-2,452	-21.6	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-2,452	-2,452	-21.6	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	2,452
Design zone air temp for Supply Airflow calculation (°F):	65.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	329.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	113.7	-	-	0.07
Roofs³	-	-	-	-
COMBINED	442.7	-	-	0.09
Internal				
Ceilings	113.7	-	-	0.19
Floors	-	-	-	-
Partitions⁴	343.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	80.0	65.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	65.5
Dry Resultant Temperature	75.9	67.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	112	112
Reheat Minimum (design)	112	112
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	28	28
Infiltration	3	3

CHECKS	
Number of People	2.00
ft²/Person	56.87
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	21.83
Btu/h-ft² - Heating	21.55
ft²/ton - Cooling (sensible)	549.73
ft²/ton - Heating	556.77
cfm/ft² - Cooling	0.99
cfm/ft² - Heating	0.99
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	0.00

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

689_TLT/Shower

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 15:30		
Outside Air (DB/WB/RH)			92.5 °F / 75.2 °F / 45.0 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses					
External Walls	469	-	469	3.2	29.8
Roofs	349	-	349	2.4	22.1
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	56	48	104	0.7	6.6
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	119	-	119	0.8	7.6
Internal Floors	-51	-	-51	-0.4	-3.3
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	941	48	989	6.8	
Internal Gains					
Lights	487	-	487	3.3	30.9
People	0	0	0	0.0	0.0
Misc, Computers, Equip	99	0	99	0.7	6.3
Sub Total	587	0	587	4.0	
TOTAL	1,528	48	1,576	10.8	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,528
Latent cooling load (Btu/h):	48
Sensible heat ratio:	0.97
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses				
External Walls	-690	-690	-4.7	46.0
Roofs	-468	-468	-3.2	31.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-210	-210	-1.4	14.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-134	-134	-0.9	8.9
Internal Floors	1	1	0.0	-0.1
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,500	-1,500	-10.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,500	-1,500	-10.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,500
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	114.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors ³	-	-	-	-
Roofs ³	145.7	-	-	0.05
COMBINED	259.7	-	-	0.07
Internal				
Ceilings	-	-	-	-
Floors	145.7	-	-	0.19
Partitions ⁴	510.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	76.7	67.5
Dry Resultant Temperature	75.9	68.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	86	86
Reheat Minimum (design)	86	86
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	10.49
Btu/h-ft² - Heating	10.30
ft²/ton - Cooling (sensible)	1,144.26
ft²/ton - Heating	1,165.47
cfm/ft² - Cooling	0.59
cfm/ft² - Heating	0.59
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Zone Loads Report

System: 02 c Heating only

NEMT Remote Sites

710_TLT/Shower

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ZONE PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 16:30		
Outside Air (DB/WB/RH)			91.4 °F / 74.9 °F / 46.5 %		
	Zone Sensible	Zone Latent	Net Value	Per Floor Area	Percent of Total
	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses					
External Walls	549	-	549	4.0	54.6
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-279	-	-279	-2.0	-27.7
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	60	53	113	0.8	11.2
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	92	-	92	0.7	9.1
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-25	-	-25	-0.2	-2.5
Sub Total	396	53	449	3.3	
Internal Gains					
Lights	462	-	462	3.3	46.0
People	0	0	0	0.0	0.0
Misc, Computers, Equip	94	0	94	0.7	9.4
Sub Total	557	0	557	4.0	
TOTAL	953	53	1,006	7.3	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	953
Latent cooling load (Btu/h):	53
Sensible heat ratio:	0.95
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ZONE PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Zone Net Value	Per Floor Area	Percent of Total	
	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses				
External Walls	-807	-807	-5.8	54.8
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-243	-243	-1.8	16.5
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-233	-233	-1.7	15.8
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-183	-183	-1.3	12.4
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-6	-6	0.0	0.4
Sub Total	-1,472	-1,472	-10.6	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,472	-1,472	-10.6	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,472
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	133.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	138.2	-	-	0.07
Roofs³	-	-	-	-
COMBINED	271.2	-	-	0.08
Internal				
Ceilings	138.2	-	-	0.19
Floors	-	-	-	-
Partitions⁴	581.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Master Room Setpoint (design)	200.0	70.0
Master Room (actual)	75.0	70.0
Mean Radiant Temperature	75.9	67.8
Dry Resultant Temperature	75.4	68.9
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	84	84
Reheat Minimum (design)	84	84
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	0.00
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	6.89
Btu/h-ft² - Heating	10.64
ft²/ton - Cooling (sensible)	1,741.51
ft²/ton - Heating	1,127.39
cfm/ft² - Cooling	0.61
cfm/ft² - Heating	0.61
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: LRS1_Stair 1-1

System: 02 c Heating only

NEMT Remote Sites

LRS1_Stair 1-1

HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
Room	Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,835	-	1,835	6.6	43.1
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-675	-	-675	-2.4	-15.8
External Doors	408	-	408	1.5	9.6
Windows Conduction	972	-	972	3.5	22.8
Skylights Conduction	0	-	0	0.0	0.0
Solar	893	-	893	3.2	21.0
Infiltration	126	138	264	0.9	6.2
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Openings	-187	-	-187	-0.7	-4.4
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-98	-	-98	-0.3	-2.3
Sub Total	3,276	138	3,413	12.2	
Internal Gains					
Lights	658	-	658	2.4	15.4
People	0	0	0	0.0	0.0
Misc, Computers, Equip	191	0	191	0.7	4.5
Sub Total	849	0	849	3.0	
TOTAL	4,125	138	4,262	15.2	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	4,125
Latent cooling load (Btu/h):	138
Sensible heat ratio:	0.97
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
Room	Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,975	-2,975	-10.6	38.1
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-302	-302	-1.1	3.9
External Doors	-1,050	-1,050	-3.8	13.4
Windows Conduction	-3,352	-3,352	-12.0	42.9
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-470	-470	-1.7	6.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Openings	350	350	1.3	-4.5
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-18	-18	-0.1	0.2
Sub Total	-7,818	-7,818	-28.0	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,818	-7,818	-28.0	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,818
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	623.0	101.5	16.3	0.17
Below Grade Walls	-	-	-	-
Windows ²	101.5	101.5	100.0	0.55
Doors	42.0	-	-	0.41
Floors	279.5	-	-	0.07
Roofs ³	-	-	-	-
COMBINED	944.5	101.5	10.7	0.15
Internal				
Ceilings	279.5	-	-	0.19
Floors	-	-	-	-
Partitions ⁴	364.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	77.8	62.0
Dry Resultant Temperature	76.4	66.0
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	447	447
Reheat Minimum (design)	447	447
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	7	7

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	14.76
Btu/h-ft² - Heating	27.97
ft²/ton - Cooling (sensible)	813.18
ft²/ton - Heating	429.04
cfm/ft² - Cooling	1.60
cfm/ft² - Heating	1.60
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: LR104_Field Maint. Garag...
System: 02 c Heating only

NEMT Remote Sites LR104_Field Maint. Garage HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022

IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
Room	Room	Net	Per Floor	Percent	
Sensible	Latent	Value	Area	of Total	
Btu/h	Btu/h	Btu/h	Btu/h-ft²	%	
Envelope Gains/Losses					
External Walls	3,199	-	3,199	2.9	60.0
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-2,258	-	-2,258	-2.0	-42.4
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	503	549	1,052	0.9	19.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	232	-	232	0.2	4.3
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-54	-	-54	0.0	-1.0
Sub Total	1,622	549	2,171	1.9	
Internal Gains					
Lights	2,399	-	2,399	2.1	45.0
People	0	0	0	0.0	0.0
Misc. Computers, Equip	762	0	762	0.7	14.3
Sub Total	3,161	0	3,161	2.8	
TOTAL	4,783	549	5,332	4.8	100

COOLING SUMMARY		
Sensible cooling load (Btu/h):		4,783
Latent cooling load (Btu/h):		549
Sensible heat ratio:		0.90
Design Supply Airflow calculated per:	Sensible Loads	
Design zone air temp for Supply Airflow calculation (°F):		200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
Room	Net	Per Floor	Percent	
Value	Area	of Total		
Btu/h	Btu/h	Btu/h-ft²	%	
Envelope Gains/Losses				
External Walls	-6,315	-6,315	-5.7	60.6
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-1,788	-1,788	-1.6	17.2
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-1,877	-1,877	-1.7	18.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-275	-275	-0.2	2.6
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-171	-171	-0.2	1.6
Sub Total	-10,426	-10,426	-9.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-10,426	-10,426	-9.3	100

HEATING SUMMARY		
Sensible heating load (Btu/h):		10,426
Design zone air temp for Supply Airflow calculation (°F):		70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	1,057.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors	1,116.0	-	-	0.07
Roofs ³	-	-	-	-
COMBINED	2,173.0	-	-	0.08
Internal				
Ceilings	1,116.0	-	-	0.19
Floors	-	-	-	-
Partitions ⁴	868.0	-	-	0.33
¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.				

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	75.8	66.5
Dry Resultant Temperature	75.4	68.2
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	596	596
Reheat Minimum (design)	596	596
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	26	26

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	4.29
Btu/h-ft² - Heating	9.34
ft²/ton - Cooling (sensible)	2,799.91
ft²/ton - Heating	1,284.44
cfm/ft² - Cooling	0.53
cfm/ft² - Heating	0.53
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: LR105_TLT

System: 02 c Heating only

NEMT Remote Sites

LR105_TLT

HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 16:30		
Outside Air (DB/WB/RH)			91.4 °F / 74.9 °F / 46.5 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	432	-	432	6.6	71.6
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-136	-	-136	-2.1	-22.6
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	28	25	54	0.8	8.9
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	5	-	5	0.1	0.8
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-15	-	-15	-0.2	-2.5
Sub Total	314	25	340	5.2	
Internal Gains					
Lights	219	-	219	3.3	36.3
People	0	0	0	0.0	0.0
Misc, Computers, Equip	45	0	45	0.7	7.4
Sub Total	264	0	264	4.0	
TOTAL	578	25	604	9.2	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	578
Latent cooling load (Btu/h):	25
Sensible heat ratio:	0.96
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-634	-634	-9.7	65.2
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-112	-112	-1.7	11.5
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-110	-110	-1.7	11.4
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-114	-114	-1.7	11.7
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-1	-1	0.0	0.1
Sub Total	-972	-972	-14.8	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-972	-972	-14.8	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	972
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	105.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	65.6	-	-	0.07
Roofs³	-	-	-	-
COMBINED	170.6	-	-	0.08
Internal				
Ceilings	65.6	-	-	0.19
Floors	-	-	-	-
Partitions⁴	350.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.0	67.4
Dry Resultant Temperature	75.5	68.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	70	70
Reheat Minimum (design)	70	70
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	2	2

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	8.81
Btu/h-ft² - Heating	14.81
ft²/ton - Cooling (sensible)	1,361.32
ft²/ton - Heating	810.03
cfm/ft² - Cooling	1.07
cfm/ft² - Heating	1.07
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: 710_TLT/Shower
System: 02 c Heating only

NEMT Remote Sites
710_TLT/Shower
HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022

IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 16:30		
Outside Air (DB/WB/RH)			91.4 °F / 74.9 °F / 46.5 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	549	-	549	4.0	54.6
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-279	-	-279	-2.0	-27.7
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	60	53	113	0.8	11.2
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	92	-	92	0.7	9.1
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-25	-	-25	-0.2	-2.5
Sub Total	396	53	449	3.3	
Internal Gains					
Lights	462	-	462	3.3	46.0
People	0	0	0	0.0	0.0
Misc, Computers, Equip	94	0	94	0.7	9.4
Sub Total	557	0	557	4.0	
TOTAL	953	53	1,006	7.3	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	953
Latent cooling load (Btu/h):	53
Sensible heat ratio:	0.95
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net	Per Floor Value	Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-807	-807	-5.8	54.8
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-243	-243	-1.8	16.5
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-233	-233	-1.7	15.8
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-183	-183	-1.3	12.4
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-6	-6	0.0	0.4
Sub Total	-1,472	-1,472	-10.6	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,472	-1,472	-10.6	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,472
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	133.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	138.2	-	-	0.07
Roofs³	-	-	-	-
COMBINED	271.2	-	-	0.08
Internal				
Ceilings	138.2	-	-	0.19
Floors	-	-	-	-
Partitions⁴	581.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	75.9	67.8
Dry Resultant Temperature	75.4	68.9
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	84	84
Reheat Minimum (design)	84	84
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	6.89
Btu/h-ft² - Heating	10.64
ft²/ton - Cooling (sensible)	1,741.51
ft²/ton - Heating	1,127.39
cfm/ft² - Cooling	0.61
cfm/ft² - Heating	0.61
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: LR103_Elev. Machine Rm
System: 02 a Packaged Ter...

NEMT Remote Sites
LR103_Elev. Machine Rm
HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022



COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			5 / 12:30 †		
Outside Air (DB/WB/RH)			84.1 °F / 66.2 °F / 38.3 %		
Room	Sensible	Latent	Net Value	Per Floor Area	Percent of Total
Btu/h	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses					
External Walls	406	-	406	4.0	-
Roofs	260	-	260	2.6	-
Ground/Exposed Floors	-408	-	-408	-4.0	-
External Doors	0	-	0	0.0	-
Windows Conduction	0	-	0	0.0	-
Skylights Conduction	0	-	0	0.0	-
Solar	0	-	0	0.0	-
Infiltration	13	0	13	0.1	-
Nat/Aux Vent	0	0	0	0.0	-
Internal Building Gains/Losses					
Internal Walls/Opening	-202	-	-202	-2.0	-
Internal Floors	0	-	0	0.0	-
Internal Air & Furniture	-69	-	-69	-0.7	-
Ceilings	0	-	0	0.0	-
Sub Total	0	0	0	0.0	-
Internal Gains					
Lights	0	-	0	0.0	-
People	0	0	0	0.0	-
Misc. Computers, Equip	0	0	0	0.0	-
Sub Total	0	0	0	0.0	-
TOTAL	0	0	0	0.0	0

COOLING SUMMARY	
Sensible cooling load (Btu/h):	0
Latent cooling load (Btu/h):	0
Sensible heat ratio:	0.05
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	80.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room	Net Value	Per Floor Area	Percent of Total
	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses				
External Walls	-1,545	-1,545	-15.3	70.9
Roofs	-287	-287	-2.8	13.2
Ground/Exposed Floors	-57	-57	-0.6	2.6
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-157	-157	-1.6	7.2
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Openings	-133	-133	-1.3	6.1
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-2,179	-2,179	-21.5	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-2,179	-2,179	-21.5	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	2,179
Design zone air temp for Supply Airflow calculation (°F):	65.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	283.5	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors	101.2	-	-	0.07
Roofs ³	101.2	-	-	0.05
COMBINED	486.0	-	-	0.08
Internal				
Ceilings	-	-	-	-
Floors	-	-	-	-
Partitions ⁴	283.5	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	80.0	65.0
Room (actual)	78.3	65.0
Mean Radiant Temperature	78.5	60.3
Dry Resultant Temperature	78.4	62.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	100	100
Reheat Minimum (design)	100	100
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	2	2

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	0.00
Btu/h-ft² - Heating	21.52
ft²/ton - Cooling (sensible)	-
ft²/ton - Heating	557.51
cfm/ft² - Cooling	0.98
cfm/ft² - Heating	0.98
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

† The time of peak defaults to 12:30 whenever there is no cooling as a result of either the 'Operation Profile' being off continuously or the 'Conditioned' status on the Room Template being set to "No (free-floating for Room Loads)".

Room Loads Report

Zone: LR101_Vestibule
System: 02 c Heating only

NEMT Remote Sites LR101_Vestibule HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)		7 / 9:30			
Outside Air (DB/WB/RH)		83.5 °F / 73.8 °F / 63.5 %			
Room	Room	Net	Per Floor		
Sensible	Latent	Value	Area	Percent	of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%	
External Walls	127	-	127	0.8	1.8
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-1,644	-	-1,644	-10.5	-23.0
External Doors	26	-	26	0.2	0.4
Windows Conduction	729	-	729	4.7	10.2
Skylights Conduction	0	-	0	0.0	0.0
Solar	8,399	-	8,399	53.6	117.6
Infiltration	27	77	104	0.7	1.5
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	-712	-	-712	-4.5	-10.0
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-350	-	-350	-2.2	-4.9
Sub Total	6,603	77	6,680	42.6	
Internal Gains					
Lights	353	-	353	2.3	4.9
People	0	0	0	0.0	0.0
Misc. Computers, Equip	107	0	107	0.7	1.5
Sub Total	460	0	460	2.9	
TOTAL	7,063	77	7,140	45.5	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	7,063
Latent cooling load (Btu/h):	77
Sensible heat ratio:	0.99
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)		Heating Design		
Outside Air (DB/WB/RH)		4.1 °F / 2.2 °F / 50.4 %		
Room	Net	Per Floor		
Value	Area	Percent		
Envelope Gains/Losses	Btu/h	Btu/h-ft²	%	
External Walls	-920	-920	-5.9	12.6
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-105	-105	-0.7	1.4
External Doors	-506	-506	-3.2	6.9
Windows Conduction	-5,587	-5,587	-35.6	76.7
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-264	-264	-1.7	3.6
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	41	41	0.3	-0.6
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	51	51	0.3	-0.7
Sub Total	-7,288	-7,288	-46.5	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,288	-7,288	-46.5	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,288
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	343.0	175.7	51.2	0.33
Below Grade Walls	-	-	-	-
Windows ²	175.7	175.7	100.0	0.55
Doors	21.0	-	-	0.41
Floors	156.8	-	-	0.07
Roofs ³	-	-	-	-
COMBINED	520.8	175.7	33.7	0.25
Internal				
Ceilings	156.8	-	-	0.19
Floors	-	-	-	-
Partitions ⁴	364.0	-	-	0.33
¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.				

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	83.1	58.5
Dry Resultant Temperature	79.0	64.2
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	416	416
Reheat Minimum (design)	416	416
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	4	4

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	45.06
Btu/h-ft² - Heating	46.50
ft²/ton - Cooling (sensible)	266.34
ft²/ton - Heating	258.09
cfm/ft² - Cooling	2.66
cfm/ft² - Heating	2.66
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: 708_Team Locker
System: 09_p Dedicated Ou...

NEMT Remote Sites 708_Team Locker HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,801	-	1,801	2.2	5.5
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-1,755	-	-1,755	-2.1	-5.4
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	370	404	774	0.9	2.4
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	521	-	521	0.6	1.6
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	-195	-	-195	-0.2	-0.6
Sub Total	743	404	1,147	1.4	
Internal Gains					
Lights	2,100	-	2,100	2.6	6.4
People	11,360	17,440	28,800	35.1	87.9
Misc, Computers, Equip	700	0	700	0.9	2.1
Sub Total	14,160	17,440	31,601	38.5	
TOTAL	14,904	17,844	32,747	39.9	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	14,904
Latent cooling load (Btu/h):	17,844
Sensible heat ratio:	0.46
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net	Per Floor Value	Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-3,395	-3,395	-4.1	46.4
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-1,366	-1,366	-1.7	18.7
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-1,380	-1,380	-1.7	18.9
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-1,123	-1,123	-1.4	15.3
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-54	-54	-0.1	0.7
Sub Total	-7,318	-7,318	-8.9	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,318	-7,318	-8.9	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,318
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	567.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	820.6	-	-	0.07
Roofs³	-	-	-	-
COMBINED	1,387.6	-	-	0.08
Internal				
Ceilings	820.6	-	-	0.19
Floors	-	-	-	-
Partitions⁴	1,204.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	75.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	67.0
Dry Resultant Temperature	75.9	68.5
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	681	565
Reheat Minimum (design)	462	462
Leakage at Design Flow	0	0
Ventilation (requirement)	462	462
Exhaust (requirement)	205	205
Infiltration	19	19

CHECKS	
Number of People	16.00
ft²/Person	51.29
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	18.16
Btu/h-ft² - Heating	8.92
ft²/ton - Cooling (sensible)	660.75
ft²/ton - Heating	1,345.66
cfm/ft² - Cooling	0.83
cfm/ft² - Heating	0.69
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.56
Outdoor Air cfm/person	28.85

Room Loads Report

Zone: LR102_Team Room
System: 02 c Heating only

NEMT Remote Sites
LR102_Team Room
HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022

IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 16:30		
Outside Air (DB/WB/RH)			92.1 °F / 76.2 °F / 48.3 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	780	-	780	6.9	16.5
Roofs	0	-	0	0.0	0.0
Ground/Exposed Floors	-238	-	-238	-2.1	-5.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	51	56	107	0.9	2.3
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	72	-	72	0.6	1.5
Internal Floors	0	-	0	0.0	0.0
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	10	-	10	0.1	0.2
Sub Total	675	56	731	6.4	
Internal Gains					
Lights	291	-	291	2.6	6.2
People	1,420	2,180	3,600	31.6	76.3
Misc. Computers, Equip	97	0	97	0.9	2.1
Sub Total	1,808	2,180	3,988	35.1	
TOTAL	2,483	2,236	4,719	41.5	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	2,483
Latent cooling load (Btu/h):	2,236
Sensible heat ratio:	0.53
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	80.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net	Per Floor Value	Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-1,942	-1,942	-17.1	79.2
Roofs	0	0	0.0	0.0
Ground/Exposed Floors	-170	-170	-1.5	6.9
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-191	-191	-1.7	7.8
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-56	-56	-0.5	2.3
Internal Floors	0	0	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	-93	-93	-0.8	3.8
Sub Total	-2,452	-2,452	-21.6	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-2,452	-2,452	-21.6	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	2,452
Design zone air temp for Supply Airflow calculation (°F):	65.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	329.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors	113.7	-	-	0.07
Roofs³	-	-	-	-
COMBINED	442.7	-	-	0.09
Internal				
Ceilings	113.7	-	-	0.19
Floors	-	-	-	-
Partitions⁴	343.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	80.0	65.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	65.5
Dry Resultant Temperature	75.9	67.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	112	112
Reheat Minimum (design)	112	112
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	28	28
Infiltration	3	3

CHECKS	
Number of People	2.00
ft²/Person	56.87
Average Ceiling Height (ft)	14.00
Btu/h-ft² - Cooling (sensible)	21.83
Btu/h-ft² - Heating	21.55
ft²/ton - Cooling (sensible)	549.73
ft²/ton - Heating	556.77
cfm/ft² - Cooling	0.99
cfm/ft² - Heating	0.99
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	0.00

Room Loads Report

Zone: LRS1_Stair 2
System: 02 c Heating only

NEMT Remote Sites

LRS1_Stair 2

HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

VE 2022

IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 15:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
Room	Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,300	-	1,300	4.6	24.4
Roofs	712	-	712	2.5	13.4
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	1,243	-	1,243	4.4	23.3
Skylights Conduction	0	-	0	0.0	0.0
Solar	1,225	-	1,225	4.4	23.0
Infiltration	111	118	229	0.8	4.3
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	-29	-	-29	-0.1	-0.5
Internal Floors	-196	-	-196	-0.7	-3.7
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	4,366	118	4,484	16.0	
Internal Gains					
Lights	658	-	658	2.4	12.3
People	0	0	0	0.0	0.0
Misc, Computers, Equip	191	0	191	0.7	3.6
Sub Total	849	0	849	3.0	
TOTAL	5,215	118	5,333	19.1	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	5,215
Latent cooling load (Btu/h):	118
Sensible heat ratio:	0.98
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
Room	Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,536	-2,536	-9.1	33.4
Roofs	-844	-844	-3.0	11.1
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	-4,037	-4,037	-14.4	53.2
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-403	-403	-1.4	5.3
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	215	215	0.8	-2.8
Internal Floors	22	22	0.1	-0.3
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-7,582	-7,582	-27.1	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-7,582	-7,582	-27.1	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	7,582
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	570.0	123.0	21.6	0.19
Below Grade Walls	-	-	-	-
Windows ²	123.0	123.0	100.0	0.55
Doors	-	-	-	-
Floors ³	-	-	-	-
Roofs ³	279.5	-	-	0.05
COMBINED	849.5	123.0	14.5	0.14
Internal				
Ceilings	-	-	-	-
Floors	279.5	-	-	0.19
Partitions ⁴	312.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	79.0	61.4
Dry Resultant Temperature	77.0	65.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	433	433
Reheat Minimum (design)	433	433
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	6	6

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	18.66
Btu/h-ft² - Heating	27.13
ft²/ton - Cooling (sensible)	643.16
ft²/ton - Heating	442.36
cfm/ft² - Cooling	1.55
cfm/ft² - Heating	1.55
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: 106_Girls Locker
System: 09_p Dedicated Ou...

NEMT Remote Sites 106_Girls Locker HVAC Methodology: ApacheHVAC

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 15:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
Room	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,318	-	1,318	2.0	4.3
Roofs	1,689	-	1,689	2.6	5.5
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	261	276	537	0.8	1.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Openings	223	-	223	0.3	0.7
Internal Floors	-409	-	-409	-0.6	-1.3
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	3,082	276	3,358	5.1	
Internal Gains					
Lights	1,675	-	1,675	2.6	5.4
People	9,940	15,260	25,200	38.5	81.8
Misc. Computers, Equip	558	0	558	0.9	1.8
Sub Total	12,173	15,260	27,433	41.9	
TOTAL	15,255	15,536	30,791	47.1	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	15,255
Latent cooling load (Btu/h):	15,536
Sensible heat ratio:	0.50
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
Room	Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,315	-2,315	-3.5	38.2
Roofs	-2,081	-2,081	-3.2	34.3
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-944	-944	-1.4	15.6
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Openings	-728	-728	-1.1	12.0
Internal Floors	1	1	0.0	0.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-6,066	-6,066	-9.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-6,066	-6,066	-9.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	6,066
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	387.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows ²	-	-	-	-
Doors	-	-	-	-
Floors ³	-	-	-	-
Roofs ³	654.4	-	-	0.05
COMBINED	1,041.4	-	-	0.06
Internal				
Ceilings	-	-	-	-
Floors	654.4	-	-	0.19
Partitions ⁴	861.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	75.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	78.2	66.5
Dry Resultant Temperature	76.6	68.3
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	697	477
Reheat Minimum (design)	399	399
Leakage at Design Flow	0	0
Ventilation (requirement)	399	399
Exhaust (requirement)	164	164
Infiltration	13	13

CHECKS	
Number of People	14.00
ft²/Person	46.75
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	23.31
Btu/h-ft² - Heating	9.27
ft²/ton - Cooling (sensible)	514.79
ft²/ton - Heating	1,294.72
cfm/ft² - Cooling	1.07
cfm/ft² - Heating	0.73
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.61
Outdoor Air cfm/person	28.51

Room Loads Report

Zone: 688_TLT/Shower
System: 02 c Heating only

NEMT Remote Sites 688_TLT/Shower HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 15:30		
Outside Air (DB/WB/RH)			92.5 °F / 75.2 °F / 45.0 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	481	-	481	3.2	30.1
Roofs	356	-	356	2.4	22.3
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	57	49	106	0.7	6.6
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	113	-	113	0.8	7.0
Internal Floors	-57	-	-57	-0.4	-3.6
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	950	49	999	6.7	
Internal Gains					
Lights	497	-	497	3.3	31.1
People	0	0	0	0.0	0.0
Misc, Computers, Equip	101	0	101	0.7	6.3
Sub Total	598	0	598	4.0	
TOTAL	1,548	49	1,597	10.7	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,548
Latent cooling load (Btu/h):	49
Sensible heat ratio:	0.97
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-708	-708	-4.8	46.3
Roofs	-477	-477	-3.2	31.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-214	-214	-1.4	14.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-119	-119	-0.8	7.8
Internal Floors	-10	-10	-0.1	0.7
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,529	-1,529	-10.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,529	-1,529	-10.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,529
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	117.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors³	-	-	-	-
Roofs³	148.7	-	-	0.05
COMBINED	265.7	-	-	0.07
Internal				
Ceilings	-	-	-	-
Floors	148.7	-	-	0.19
Partitions⁴	507.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	67.5
Dry Resultant Temperature	75.9	68.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	87	87
Reheat Minimum (design)	87	87
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	10.41
Btu/h-ft² - Heating	10.28
ft²/ton - Cooling (sensible)	1,152.61
ft²/ton - Heating	1,167.13
cfm/ft² - Cooling	0.59
cfm/ft² - Heating	0.59
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: 689_TLT/Shower
System: 02 c Heating only

NEMT Remote Sites 689_TLT/Shower HVAC Methodology: ApacheHVAC

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			8 / 15:30		
Outside Air (DB/WB/RH)			92.5 °F / 75.2 °F / 45.0 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses					
External Walls	469	-	469	3.2	29.8
Roofs	349	-	349	2.4	22.1
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	56	48	104	0.7	6.6
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	119	-	119	0.8	7.6
Internal Floors	-51	-	-51	-0.4	-3.3
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	941	48	989	6.8	
Internal Gains					
Lights	487	-	487	3.3	30.9
People	0	0	0	0.0	0.0
Misc, Computers, Equip	99	0	99	0.7	6.3
Sub Total	587	0	587	4.0	
TOTAL	1,528	48	1,576	10.8	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,528
Latent cooling load (Btu/h):	48
Sensible heat ratio:	0.97
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	200.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net Value	Per Floor Area	Percent of Total	
	Btu/h	Btu/h	Btu/h-ft²	%
Envelope Gains/Losses				
External Walls	-690	-690	-4.7	46.0
Roofs	-468	-468	-3.2	31.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-210	-210	-1.4	14.0
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-134	-134	-0.9	8.9
Internal Floors	1	1	0.0	-0.1
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,500	-1,500	-10.3	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,500	-1,500	-10.3	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,500
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	114.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors³	-	-	-	-
Roofs³	145.7	-	-	0.05
COMBINED	259.7	-	-	0.07
Internal				
Ceilings	-	-	-	-
Floors	145.7	-	-	0.19
Partitions⁴	510.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.7	67.5
Dry Resultant Temperature	75.9	68.7
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	86	86
Reheat Minimum (design)	86	86
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	70	70
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	10.49
Btu/h-ft² - Heating	10.30
ft²/ton - Cooling (sensible)	1,144.26
ft²/ton - Heating	1,165.47
cfm/ft² - Cooling	0.59
cfm/ft² - Heating	0.59
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: 107_Boys Locker
System: 09 p Dedicated Ou...

NEMT Remote Sites 107_Boys Locker HVAC Methodology: ApacheHVAC

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 14:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	1,284	-	1,284	1.9	4.1
Roofs	1,849	-	1,849	2.8	5.9
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	258	280	537	0.8	1.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	342	-	342	0.5	1.1
Internal Floors	-373	-	-373	-0.6	-1.2
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	3,361	280	3,640	5.5	
Internal Gains					
Lights	1,697	-	1,697	2.6	5.5
People	9,940	15,260	25,200	38.0	81.0
Misc. Computers, Equip	566	0	566	0.9	1.8
Sub Total	12,203	15,260	27,463	41.4	
TOTAL	15,564	15,540	31,103	46.9	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	15,564
Latent cooling load (Btu/h):	15,540
Sensible heat ratio:	0.50
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
	Room Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-2,382	-2,382	-3.6	37.1
Roofs	-2,104	-2,104	-3.2	32.7
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-956	-956	-1.4	14.9
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-1,045	-1,045	-1.6	16.3
Internal Floors	60	60	0.1	-0.9
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-6,428	-6,428	-9.7	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-6,428	-6,428	-9.7	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	6,428
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	399.0	-	-	0.09
Below Grade Walls	-	-	-	-
Windows²	-	-	-	-
Doors	-	-	-	-
Floors³	-	-	-	-
Roofs³	663.2	-	-	0.05
COMBINED	1,062.2	-	-	0.07
Internal				
Ceilings	-	-	-	-
Floors	663.2	-	-	0.19
Partitions⁴	855.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	75.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	78.3	66.3
Dry Resultant Temperature	76.6	68.2
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	711	494
Reheat Minimum (design)	400	400
Leakage at Design Flow	0	0
Ventilation (requirement)	400	400
Exhaust (requirement)	166	166
Infiltration	13	13

CHECKS	
Number of People	14.00
ft²/Person	47.37
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	23.47
Btu/h-ft² - Heating	9.69
ft²/ton - Cooling (sensible)	511.34
ft²/ton - Heating	1,238.11
cfm/ft² - Cooling	1.07
cfm/ft² - Heating	0.74
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.60
Outdoor Air cfm/person	28.55

Room Loads Report

Zone: LR201_Vestibule
System: 02 c Heating only

NEMT Remote Sites LR201_Vestibule HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)		7 / 14:30			
Outside Air (DB/WB/RH)		93.2 °F / 76.5 °F / 46.7 %			
Room	Room	Net	Per Floor	Percent	
Sensible	Latent	Value	Area	of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%	
External Walls	609	-	609	3.9	17.7
Roofs	432	-	432	2.8	12.5
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	850	-	850	5.4	24.7
Skylights Conduction	0	-	0	0.0	0.0
Solar	884	-	884	5.6	25.7
Infiltration	61	66	127	0.8	3.7
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	136	-	136	0.9	4.0
Internal Floors	-57	-	-57	-0.4	-1.7
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	2,915	66	2,981	19.0	
Internal Gains					
Lights	353	-	353	2.3	10.3
People	0	0	0	0.0	0.0
Misc, Computers, Equip	107	0	107	0.7	3.1
Sub Total	460	0	460	2.9	
TOTAL	3,375	66	3,441	22.0	100

COOLING SUMMARY			
Sensible cooling load (Btu/h):	3,375		
Latent cooling load (Btu/h):	66		
Sensible heat ratio:	0.98		
Design Supply Airflow calculated per:	Sensible Loads		
Design zone air temp for Supply Airflow calculation (°F):	200.0		

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)		Heating Design		
Outside Air (DB/WB/RH)		4.1 °F / 2.2 °F / 50.4 %		
Room	Net	Per Floor	Percent	
Value	Area	of Total		
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-1,299	-1,299	-8.3	25.9
Roofs	-472	-472	-3.0	9.4
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	-2,695	-2,695	-17.2	53.8
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-226	-226	-1.4	4.5
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-274	-274	-1.7	5.5
Internal Floors	-48	-48	-0.3	1.0
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-5,014	-5,014	-32.0	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-5,014	-5,014	-32.0	100

HEATING SUMMARY		
Sensible heating load (Btu/h):	5,014	
Design zone air temp for Supply Airflow calculation (°F):	70.0	

AREAS & THERMAL TRANSMITTANCE				
	Total Area	Glazing	Glazing	U-value ¹
	ft²	ft²	%	Btu/h-ft²-°F
External				
Wall (above grade)	312.0	82.4	26.4	0.21
Below Grade Walls	-	-	-	-
Windows ²	82.4	82.4	100.0	0.55
Doors	-	-	-	-
Floors ³	-	-	-	-
Roofs ³	156.8	-	-	0.05
COMBINED	468.8	82.4	17.6	0.16
Internal				
Ceilings	-	-	-	-
Floors	156.8	-	-	0.19
Partitions ⁴	312.0	-	-	0.33
¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.				

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	200.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	79.2	61.1
Dry Resultant Temperature	77.1	65.6
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	286	286
Reheat Minimum (design)	286	286
Leakage at Design Flow	-	-
Ventilation (requirement)	0	0
Exhaust (requirement)	-	-
Infiltration	3	3

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	21.53
Btu/h-ft² - Heating	31.99
ft²/ton - Cooling (sensible)	557.29
ft²/ton - Heating	375.12
cfm/ft² - Cooling	1.83
cfm/ft² - Heating	1.83
% Outside Air - Cooling	0.00
% Outside Air - Heating	0.00
Outdoor Air cfm/ft²	0.00
Outdoor Air cfm/person	-

Room Loads Report

Zone: 690_Coach Office
System: 09_p Dedicated Ou...

NEMT Remote Sites 690_Coach Office HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)		7 / 14:30			
Outside Air (DB/WB/RH)		93.2 °F / 76.5 °F / 46.7 %			
Room	Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	-	0	0.0	0.0
Roofs	348	-	348	2.8	17.4
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	48	52	99	0.8	5.0
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	258	-	258	2.1	12.9
Internal Floors	-33	-	-33	-0.3	-1.6
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	621	52	673	5.5	
Internal Gains					
Lights	464	-	464	3.8	23.2
People	250	200	450	3.7	22.4
Misc, Computers, Equip	418	0	418	3.4	20.9
Sub Total	1,133	200	1,333	10.9	
TOTAL	1,754	252	2,006	16.4	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,754
Latent cooling load (Btu/h):	252
Sensible heat ratio:	0.87
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)		Heating Design		
Outside Air (DB/WB/RH)		4.1 °F / 2.2 °F / 50.4 %		
Room	Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	0	0.0	0.0
Roofs	-396	-396	-3.2	38.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-177	-177	-1.4	17.1
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-447	-447	-3.6	43.2
Internal Floors	-15	-15	-0.1	1.5
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,035	-1,035	-8.4	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,035	-1,035	-8.4	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,035
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE			
	Total Area	Glazing	U-value ¹
	ft²	ft²	% Btu/h-ft²-°F
External			
Wall (above grade)	-	-	-
Below Grade Walls	-	-	-
Windows ²	-	-	-
Doors	-	-	-
Floors ³	-	-	-
Roofs ³	122.6	-	0.05
COMBINED	122.6	-	0.05
Internal			
Ceilings	-	-	-
Floors	122.6	-	0.19
Partitions ⁴	558.0	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	75.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.8	68.1
Dry Resultant Temperature	75.9	69.0
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	80	55
Reheat Minimum (design)	15	15
Leakage at Design Flow	0	0
Ventilation (requirement)	15	15
Exhaust (requirement)	-	-
Infiltration	2	2

CHECKS	
Number of People	1.00
ft²/Person	122.62
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	14.30
Btu/h-ft² - Heating	8.44
ft²/ton - Cooling (sensible)	839.01
ft²/ton - Heating	1,421.26
cfm/ft² - Cooling	0.65
cfm/ft² - Heating	0.45
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.13
Outdoor Air cfm/person	15.45

Room Loads Report

Zone: 691_Coach Office
System: 09 p Dedicated Ou...

NEMT Remote Sites 691_Coach Office HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)			7 / 14:30		
Outside Air (DB/WB/RH)			93.2 °F / 76.5 °F / 46.7 %		
Room	Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	-	0	0.0	0.0
Roofs	349	-	349	2.8	17.5
Ground/Exposed Floors	0	-	0	0.0	0.0
External Doors	0	-	0	0.0	0.0
Windows Conduction	0	-	0	0.0	0.0
Skylights Conduction	0	-	0	0.0	0.0
Solar	0	-	0	0.0	0.0
Infiltration	48	52	100	0.8	5.0
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	257	-	257	2.1	12.9
Internal Floors	-46	-	-46	-0.4	-2.3
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	608	52	660	5.4	
Internal Gains					
Lights	465	-	465	3.8	23.3
People	250	200	450	3.7	22.6
Misc, Computers, Equip	419	0	419	3.4	21.0
Sub Total	1,135	200	1,335	10.9	
TOTAL	1,743	252	1,995	16.2	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	1,743
Latent cooling load (Btu/h):	252
Sensible heat ratio:	0.87
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)			Heating Design	
Outside Air (DB/WB/RH)			4.1 °F / 2.2 °F / 50.4 %	
Room	Net Value	Per Floor Area	Percent of Total	
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	0	0	0.0	0.0
Roofs	-397	-397	-3.2	38.2
Ground/Exposed Floors	0	0	0.0	0.0
External Doors	0	0	0.0	0.0
Windows Conduction	0	0	0.0	0.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-177	-177	-1.4	17.1
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	-442	-442	-3.6	42.6
Internal Floors	-23	-23	-0.2	2.2
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-1,038	-1,038	-8.5	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc, Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-1,038	-1,038	-8.5	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	1,038
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE			
	Total Area	Glazing	U-value ¹
	ft²	ft²	% Btu/h-ft²-°F
External			
Wall (above grade)	-	-	-
Below Grade Walls	-	-	-
Windows ²	-	-	-
Doors	-	-	-
Floors ³	-	-	-
Roofs ³	122.9	-	0.05
COMBINED	122.9	-	0.05
Internal			
Ceilings	-	-	-
Floors	122.9	-	0.19
Partitions ⁴	558.0	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames; ³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling	Heating
	°F	°F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	75.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	76.7	68.1
Dry Resultant Temperature	75.9	69.0
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling	Heating
	cfm	cfm
Supply (design)	80	55
Reheat Minimum (design)	15	15
Leakage at Design Flow	0	0
Ventilation (requirement)	15	15
Exhaust (requirement)	-	-
Infiltration	2	2

CHECKS	
Number of People	1.00
ft²/Person	122.88
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	14.18
Btu/h-ft² - Heating	8.45
ft²/ton - Cooling (sensible)	845.98
ft²/ton - Heating	1,419.98
cfm/ft² - Cooling	0.65
cfm/ft² - Heating	0.45
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.13
Outdoor Air cfm/person	15.47

Room Loads Report

Zone: LR202_Corridor
System: 09 p Dedicated Ou...

NEMT Remote Sites LR202_Corridor HVAC Methodology: ApacheHVAC

IES VIRTUAL ENVIRONMENT

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IES

COOLING ROOM PEAK					
Time of Peak (Mo/Hr:Mn)		7 / 14:30			
Outside Air (DB/WB/RH)		93.2 °F / 76.5 °F / 46.7 %			
	Room Sensible	Room Latent	Net Value	Per Floor Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	401	-	401	0.8	2.9
Roofs	1,284	-	1,284	2.7	9.3
Ground/Exposed Floors	-350	-	-350	-0.7	-2.5
External Doors	0	-	0	0.0	0.0
Windows Conduction	5,929	-	5,929	12.5	43.1
Skylights Conduction	0	-	0	0.0	0.0
Solar	6,222	-	6,222	13.1	45.3
Infiltration	185	201	386	0.8	2.8
Nat/Aux Vent	0	0	0	0.0	0.0
Internal Building Gains/Losses					
Internal Walls/Opening	-1,012	-	-1,012	-2.1	-7.4
Internal Floors	-512	-	-512	-1.1	-3.7
Internal Air & Furniture	0	-	0	0.0	0.0
Ceilings	0	-	0	0.0	0.0
Sub Total	12,147	201	12,348	25.9	
Internal Gains					
Lights	1,072	-	1,072	2.3	7.8
People	0	0	0	0.0	0.0
Misc. Computers, Equip	325	0	325	0.7	2.4
Sub Total	1,397	0	1,397	2.9	
TOTAL	13,544	201	13,744	28.9	100

COOLING SUMMARY	
Sensible cooling load (Btu/h):	13,544
Latent cooling load (Btu/h):	201
Sensible heat ratio:	0.99
Design Supply Airflow calculated per:	Sensible Loads
Design zone air temp for Supply Airflow calculation (°F):	75.0

HEATING ROOM PEAK				
Time of Peak (Mo/Hr:Mn)		Heating Design		
Outside Air (DB/WB/RH)		4.1 °F / 2.2 °F / 50.4 %		
	Room Net	Per Floor Value	Area	Percent of Total
Envelope Gains/Losses	Btu/h	Btu/h	Btu/h-ft²	%
External Walls	-1,267	-1,267	-2.7	6.2
Roofs	-1,396	-1,396	-2.9	6.9
Ground/Exposed Floors	-73	-73	-0.2	0.4
External Doors	0	0	0.0	0.0
Windows Conduction	-19,064	-19,064	-40.1	94.0
Skylights Conduction	0	0	0.0	0.0
Solar	0	0	0.0	0.0
Infiltration	-686	-686	-1.4	3.4
Nat/Aux Vent	0	0	0.0	0.0
Internal Building Gains/Losses				
Internal Walls/Opening	1,872	1,872	3.9	-9.2
Internal Floors	342	342	0.7	-1.7
Internal Air & Furniture	0	0	0.0	0.0
Ceilings	0	0	0.0	0.0
Sub Total	-20,270	-20,270	-42.6	
Internal Gains				
Lights	0	0	0.0	0.0
People	0	0	0.0	0.0
Misc. Computers, Equip	0	0	0.0	0.0
Sub Total	0	0	0.0	
TOTAL	-20,270	-20,270	-42.6	100

HEATING SUMMARY	
Sensible heating load (Btu/h):	20,270
Design zone air temp for Supply Airflow calculation (°F):	70.0

AREAS & THERMAL TRANSMITTANCE				
	Total Area ft²	Glazing ft²	Glazing %	U-value¹ Btu/h-ft²-°F
External				
Wall (above grade)	828.0	598.2	72.2	0.42
Below Grade Walls	-	-	-	-
Windows²	598.2	598.2	100.0	0.55
Doors	-	-	-	-
Floors	103.5	-	-	0.07
Roofs³	475.9	-	-	0.05
COMBINED	1,407.4	598.2	42.5	0.27
Internal				
Ceilings	-	-	-	-
Floors	372.4	-	-	0.19
Partitions⁴	1,146.0	-	-	0.33

¹ Area-weighted U-value; ² Windows/glazing include glass and frames;
³ Roofs incl. skylights; ⁴ Partitions incl. internal windows and doors.

TEMPERATURES & SETPOINTS		
	Cooling °F	Heating °F
Supply Air (design)	55.0	90.0
Room Setpoint (design)	75.0	70.0
Room (actual)	75.0	70.0
Mean Radiant Temperature	80.4	58.6
Dry Resultant Temperature	77.7	64.3
RH (Design Max Setpoint) (%)	-	-

AIRFLOW		
	Cooling cfm	Heating cfm
Supply (design)	619	944
Reheat Minimum (design)	36	36
Leakage at Design Flow	0	0
Ventilation (requirement)	36	36
Exhaust (requirement)	-	-
Infiltration	10	10

CHECKS	
Number of People	0.00
ft²/Person	-
Average Ceiling Height (ft)	12.00
Btu/h-ft² - Cooling (sensible)	28.46
Btu/h-ft² - Heating	42.60
ft²/ton - Cooling (sensible)	421.63
ft²/ton - Heating	281.72
cfm/ft² - Cooling	1.30
cfm/ft² - Heating	1.98
% Outside Air - Cooling	-
% Outside Air - Heating	-
Outdoor Air cfm/ft²	0.07
Outdoor Air cfm/person	-