

ANYEC: NYSECC CASE FOR CODE

SIM: VIDARIS INC.

REPORT- LV-B SUMMARY OF SPACES OCCURRING IN THE PROJECT

WEATHER FILE- NEW YORK CITY TMY2

NUMBER OF SPACES 168

EXTERIOR 133

INTERIOR 35

SPACE	SPACE*FLOOR MULTIPLIER	SPACE TYPE	SPACE AZIMUTH	LIGHTING (WATT / SQFT )	PEOPLE	EQUIP (WATT / SQFT )	INFILTRATION METHOD	AIR CHANGES PER HOUR	AREA (SQFT )	VOLUME (CUFT )
SHAFT	1.0	EXT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	624.03	350765.31
C-BOH	1.0	INT	0.0	0.70	3.6	0.20	AIR-CHANGE	0.15	1089.01	14157.13
C-STORAGE	1.0	INT	0.0	0.70	16.8	0.20	AIR-CHANGE	0.15	5037.51	65487.62
C-LOCKER	1.0	INT	0.0	0.70	2.0	0.50	AIR-CHANGE	0.15	587.42	7636.46
C-TELE	1.0	INT	0.0	0.70	0.2	0.20	AIR-CHANGE	0.15	230.48	2996.24
C-MECH	1.0	INT	0.0	0.70	4.6	0.20	AIR-CHANGE	0.15	4616.78	60018.14
C-OFC	1.0	INT	0.0	0.70	6.8	1.50	AIR-CHANGE	0.15	1021.10	13274.30
C-STAIR	1.0	INT	0.0	0.70	1.6	0.00	AIR-CHANGE	0.15	476.24	6191.12
C-ELEC	1.0	INT	0.0	0.70	2.3	0.20	AIR-CHANGE	0.15	2331.71	30312.23
C-CORR	1.0	INT	0.0	0.70	7.6	0.20	AIR-CHANGE	0.15	2272.65	29544.45
C-ELEV-LOBBY	1.0	INT	0.0	0.70	4.1	0.20	AIR-CHANGE	0.15	204.78	2662.14
C-TANK	1.0	INT	0.0	0.70	2.1	0.20	AIR-CHANGE	0.15	2092.35	27200.55
1-MOVE-IN	1.0	EXT	0.0	0.70	2.3	0.20	AIR-CHANGE	0.15	689.39	13098.41
1-BOH	1.0	EXT	0.0	0.70	13.9	0.20	AIR-CHANGE	0.15	4161.64	79071.16
1-RETAIL	1.0	EXT	0.0	1.50	56.2	0.50	AIR-CHANGE	0.15	2807.86	53349.34
1-LOBBY	1.0	EXT	0.0	0.70	35.7	0.20	AIR-CHANGE	0.15	1786.40	33941.60
1-PACKAGE	1.0	EXT	0.0	0.70	2.1	0.20	AIR-CHANGE	0.15	630.19	11973.61
1-CORR	1.0	EXT	0.0	0.70	4.0	0.20	AIR-CHANGE	0.15	1213.86	23063.34
1-VEST	1.0	EXT	0.0	0.70	0.3	0.20	AIR-CHANGE	0.30	79.63	1512.97
1-MAILRM	1.0	EXT	0.0	0.70	4.6	0.20	AIR-CHANGE	0.15	1385.26	26319.94
1-OFF	1.0	EXT	0.0	0.70	8.9	1.50	AIR-CHANGE	0.15	1340.00	25460.00
1-SECURITY	1.0	EXT	0.0	0.70	1.8	1.50	AIR-CHANGE	0.15	273.00	5187.00
1-STAIR	1.0	EXT	0.0	0.70	2.5	0.00	AIR-CHANGE	0.15	749.33	14237.27
1-SALLYPORT	1.0	EXT	0.0	0.70	4.4	1.50	AIR-CHANGE	0.50	660.00	12540.00
2-BASKETBALL	1.0	EXT	0.0	0.70	91.7	0.50	AIR-CHANGE	0.25	7333.67	117925.41
2-VEST	1.0	EXT	0.0	0.70	0.3	0.20	AIR-CHANGE	0.30	78.87	1268.23
2-AMENITY-S	1.0	EXT	0.0	0.70	12.3	0.50	AIR-CHANGE	0.25	986.01	15855.04
2-GYM-N	1.0	EXT	0.0	0.70	65.2	0.50	AIR-CHANGE	0.25	5215.09	172804.00
2-STORAGE-N	1.0	EXT	0.0	0.70	6.3	0.20	AIR-CHANGE	0.15	1896.63	67033.00
2-CORR	1.0	EXT	0.0	0.70	1.6	0.20	AIR-CHANGE	0.15	489.86	7876.95
2-GYM-S	1.0	EXT	0.0	0.70	81.7	0.50	AIR-CHANGE	0.25	6533.12	105052.57
2-STAIR	1.0	INT	0.0	0.70	2.0	0.00	AIR-CHANGE	0.15	595.24	9571.46
3-FITNESS	1.0	EXT	0.0	0.70	17.2	0.50	AIR-CHANGE	0.25	1379.34	23448.78
3-OFC	1.0	EXT	0.0	0.70	10.2	1.50	AIR-CHANGE	0.15	1526.03	25942.51
3-CORR	1.0	INT	0.0	0.70	3.9	0.20	AIR-CHANGE	0.15	1172.63	19934.71
3-TOILET	1.0	EXT	0.0	0.70	3.0	0.50	AIR-CHANGE	0.15	904.72	15380.24
3-MECH	1.0	EXT	0.0	0.70	2.9	0.20	AIR-CHANGE	0.15	2938.45	49953.65
3-LOUNGE	1.0	EXT	0.0	0.70	114.1	0.50	AIR-CHANGE	0.15	5704.50	96976.50

3-STORAGE	1.0	INT	0.0	0.70	0.6	0.20	AIR-CHANGE	0.15	166.03	2822.51
3-ELEV-LOBBY	1.0	INT	0.0	0.70	3.3	0.20	AIR-CHANGE	0.15	166.62	2832.54
3-PLENUM	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	409.61	6963.37
3-STAIR	1.0	INT	0.0	0.70	4.0	0.00	AIR-CHANGE	0.15	1204.17	20470.89
4-MECH-E	3.0	EXT	0.0	0.70	0.5	0.20	AIR-CHANGE	0.15	492.35	5199.22
4-MECH-W	3.0	EXT	0.0	0.70	1.4	0.20	AIR-CHANGE	0.15	1371.32	14481.14
4-MECH-N	3.0	EXT	0.0	0.70	1.1	0.20	AIR-CHANGE	0.15	1121.04	11838.18
4-AP-2B-SW	3.0	EXT	0.0	0.70	5.5	1.30	AIR-CHANGE	0.30	1090.91	11520.01
4-AP-0B-S	3.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	5328.05
1 DOE 2.1E MANHATTAN WEST RESIDENTIAL, NYC DOE-2.1E-121 Fri Feb 6 15:53:08 2015LDL RUN 1										
ANYEC: NYSECCC CASE FOR CODE			SIM: VIDARIS INC.							
REPORT- LV-B	SUMMARY OF SPACES OCCURRING IN THE PROJECT						WEATHER FILE- NEW YORK CITY TMY2			
----- (CONTINUED) -----										
4-AP-1B-S	3.0	EXT	0.0	0.70	13.6	1.30	AIR-CHANGE	0.30	2725.40	28780.22
4-AP-1B-SE	3.0	EXT	0.0	0.70	3.9	1.30	AIR-CHANGE	0.30	774.47	8178.40
4-AP-1B-NE	3.0	EXT	0.0	0.70	3.9	1.30	AIR-CHANGE	0.30	774.47	8178.40
4-AP-1B-N	3.0	EXT	0.0	0.70	3.4	1.30	AIR-CHANGE	0.30	677.76	7157.15
4-AP-0B-N	3.0	EXT	0.0	0.70	6.6	1.30	AIR-CHANGE	0.30	1319.52	13934.13
4-STAIR	3.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.37	4301.83
4-CORR	3.0	INT	0.0	0.70	3.2	0.20	AIR-CHANGE	0.15	958.80	10124.93
7-AP-2B-SW	26.0	EXT	0.0	0.70	5.5	1.30	AIR-CHANGE	0.30	1090.91	10810.92
7-AP-0B-S	26.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	5000.09
7-AP-1B-S	26.0	EXT	0.0	0.70	13.6	1.30	AIR-CHANGE	0.30	2725.40	27008.71
7-AP-1B-SE	26.0	EXT	0.0	0.70	3.9	1.30	AIR-CHANGE	0.30	774.47	7675.00
7-AP-1B-NE	26.0	EXT	0.0	0.70	7.3	1.30	AIR-CHANGE	0.30	1458.29	14451.65
7-AP-1B-N	26.0	EXT	0.0	0.70	3.4	1.30	AIR-CHANGE	0.30	677.76	6716.60
7-AP-0B-N	26.0	EXT	0.0	0.70	6.6	1.30	AIR-CHANGE	0.30	1319.52	13076.44
7-AP-0B-E	26.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	5109.60
7-STAIR	26.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	4037.83
7-AP-1B-W	26.0	EXT	0.0	0.70	3.5	1.30	AIR-CHANGE	0.30	701.01	6946.91
7-AP-2B-NW	26.0	EXT	0.0	0.70	5.3	1.30	AIR-CHANGE	0.30	1060.27	10507.27
7-CORR	26.0	INT	0.0	0.70	3.3	0.20	AIR-CHANGE	0.15	981.76	9729.24
33-AP-2B-SW	1.0	EXT	0.0	0.70	5.5	1.30	AIR-CHANGE	0.30	1090.91	10723.65
33-AP-0B-S	1.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	4959.73
33-AP-1B-S	1.0	EXT	0.0	0.70	13.6	1.30	AIR-CHANGE	0.30	2725.40	26790.68
33-AP-1B-SE	1.0	EXT	0.0	0.70	3.9	1.30	AIR-CHANGE	0.30	774.47	7613.04
33-AP-1B-NE	1.0	EXT	0.0	0.70	7.3	1.30	AIR-CHANGE	0.30	1458.29	14334.99
33-AP-1B-N	1.0	EXT	0.0	0.70	3.4	1.30	AIR-CHANGE	0.30	677.76	6662.38
33-AP-0B-N	1.0	EXT	0.0	0.70	6.6	1.30	AIR-CHANGE	0.30	1319.52	12970.88
33-AP-0B-E	1.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	5068.35
33-STAIR	1.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	4005.23
33-AP-1B-W	1.0	EXT	0.0	0.70	3.5	1.30	AIR-CHANGE	0.30	701.01	6890.83
33-AP-2B-NW	1.0	EXT	0.0	0.70	5.3	1.30	AIR-CHANGE	0.30	1060.27	10422.45
33-CORR	1.0	EXT	0.0	0.70	3.3	0.20	AIR-CHANGE	0.15	981.76	9650.70
34-AP-3B-SE	1.0	EXT	0.0	0.70	7.2	1.30	AIR-CHANGE	0.30	1432.71	17192.52
34-MECH-NE	1.0	EXT	0.0	0.70	5.9	1.30	AIR-CHANGE	0.30	1188.92	14267.04
34-AP-2B-SW	1.0	EXT	0.0	0.70	5.5	1.30	AIR-CHANGE	0.30	1090.91	13090.92
34-AP-0B-S	1.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	6054.60
34-AP-1B-S	1.0	EXT	0.0	0.70	6.8	1.30	AIR-CHANGE	0.30	1350.59	16207.08
34-AP-0B-N	1.0	EXT	0.0	0.70	4.3	1.30	AIR-CHANGE	0.30	865.20	10382.40
34-MECH-E	1.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	6187.20
34-STAIR	1.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	4889.40

34-AP-1B-W	1.0	EXT	0.0	0.70	3.5	1.30	AIR-CHANGE	0.30	701.01	8412.12
34-AP-1B-NE	1.0	EXT	0.0	0.70	3.4	1.30	AIR-CHANGE	0.30	683.82	8205.84
34-MECH-NW	1.0	EXT	0.0	0.70	5.3	1.30	AIR-CHANGE	0.30	1060.27	12723.24
34-CORR	1.0	INT	0.0	0.70	3.0	0.20	AIR-CHANGE	0.15	902.11	10825.32
35-ELEC	1.0	EXT	0.0	0.70	0.5	5.00	AIR-CHANGE	0.15	472.98	4729.80
35-AP-1B-S	1.0	EXT	0.0	0.70	10.2	1.30	AIR-CHANGE	0.30	2045.60	20456.00
35-AP-1B-SE	1.0	EXT	0.0	0.70	3.7	1.30	AIR-CHANGE	0.30	737.65	7376.50
35-AP-1B-NE	1.0	EXT	0.0	0.70	7.5	1.30	AIR-CHANGE	0.30	1508.35	15083.50
35-TANK	1.0	EXT	0.0	0.70	0.8	0.20	AIR-CHANGE	0.15	757.10	7571.00
35-AP-2B-SW	1.0	EXT	0.0	0.70	5.5	1.30	AIR-CHANGE	0.30	1090.91	10909.10
35-AP-0B-S	1.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	5045.50
35-STAIR	1.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.82	4078.20
35-EMR	1.0	EXT	0.0	0.70	1.0	5.00	AIR-CHANGE	0.15	952.06	9520.60
35-CORR	1.0	INT	0.0	0.70	3.0	0.20	AIR-CHANGE	0.15	902.11	9021.10
35-AP-2B-NW	1.0	EXT	0.0	0.70	5.4	1.30	AIR-CHANGE	0.30	1072.18	10721.80
35-AP-0B-E	1.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	5156.00
36-AP-0B-N	15.0	EXT	0.0	0.70	2.4	1.30	AIR-CHANGE	0.30	472.98	4720.34
36-AP-0B-W	15.0	EXT	0.0	0.70	5.0	1.30	AIR-CHANGE	0.30	1006.15	10041.38

1 DOE 2.1E MANHATTAN WEST RESIDENTIAL, NYC DOE-2.1E-121 Fri Feb 6 15:53:08 2015LDL RUN 1

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WEATHER FILE- NEW YORK CITY TMY2

----- (CONTINUED) -----

36-AP-1B-S	15.0	EXT	0.0	0.70	10.2	1.30	AIR-CHANGE	0.30	2045.60	20415.09
36-AP-1B-SE	15.0	EXT	0.0	0.70	3.7	1.30	AIR-CHANGE	0.30	737.65	7361.75
36-AP-1B-NE	15.0	EXT	0.0	0.70	7.5	1.30	AIR-CHANGE	0.30	1508.35	15053.33
36-AP-1B-N	15.0	EXT	0.0	0.70	3.8	1.30	AIR-CHANGE	0.30	757.10	7555.86
36-AP-2B-SW	15.0	EXT	0.0	0.70	5.5	1.30	AIR-CHANGE	0.30	1090.91	10887.28
36-AP-0B-S	15.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	5035.41
36-STAIR	15.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	4066.35
36-CORR	15.0	INT	0.0	0.70	3.0	0.20	AIR-CHANGE	0.15	902.11	9003.06
36-AP-0B-E	15.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	5145.69
36-AP-2B-NW	15.0	EXT	0.0	0.70	5.1	1.30	AIR-CHANGE	0.30	1017.30	10152.65
51-AP-1B-S	4.0	EXT	0.0	0.70	10.3	1.30	AIR-CHANGE	0.30	2059.69	22924.35
51-AP-2B-SW	4.0	EXT	0.0	0.70	5.7	1.30	AIR-CHANGE	0.30	1139.18	12679.07
51-AP-0B-N	4.0	EXT	0.0	0.70	2.4	1.30	AIR-CHANGE	0.30	473.31	5267.94
51-AP-2B-NW	4.0	EXT	0.0	0.70	5.4	1.30	AIR-CHANGE	0.30	1082.77	12051.23
51-AP-0B-S	4.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	5615.64
51-AP-1B-SE	4.0	EXT	0.0	0.70	3.7	1.30	AIR-CHANGE	0.30	737.65	8210.04
51-AP-1B-NE	4.0	EXT	0.0	0.70	7.5	1.30	AIR-CHANGE	0.30	1508.35	16787.94
51-AP-1B-N	4.0	EXT	0.0	0.70	3.8	1.30	AIR-CHANGE	0.30	757.10	8426.52
51-STAIR	4.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	4534.92
51-CORR	4.0	INT	0.0	0.70	3.0	0.20	AIR-CHANGE	0.15	902.11	10040.48
51-AP-0B-E	4.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	5738.63
51-AP-1B-W	4.0	EXT	0.0	0.70	4.4	1.30	AIR-CHANGE	0.30	878.34	9775.92
55-AP-1B-S	6.0	EXT	0.0	0.70	6.8	1.30	AIR-CHANGE	0.30	1364.68	21248.07
55-AP-2B-NE	6.0	EXT	0.0	0.70	5.9	1.30	AIR-CHANGE	0.30	1170.08	18218.14
55-AP-0B-N	6.0	EXT	0.0	0.70	4.4	1.30	AIR-CHANGE	0.30	884.00	13763.88
55-AP-2B-SW	6.0	EXT	0.0	0.70	5.7	1.30	AIR-CHANGE	0.30	1139.18	17737.03
55-AP-2B-NW	6.0	EXT	0.0	0.70	5.4	1.30	AIR-CHANGE	0.30	1082.77	16858.73
55-AP-1B-NE	6.0	EXT	0.0	0.70	3.4	1.30	AIR-CHANGE	0.30	684.22	10653.31
55-AP-0B-S	6.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	7855.84
55-STAIR	6.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	6344.00

55-CORR	6.0	INT	0.0	0.70	3.0	0.20	AIR-CHANGE	0.15	902.11	14045.85
55-AP-0B-E	6.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	8027.89
55-AP-1B-W	6.0	EXT	0.0	0.70	4.4	1.30	AIR-CHANGE	0.30	878.34	13675.75
55-AP-3B-SE	6.0	EXT	0.0	0.70	7.2	1.30	AIR-CHANGE	0.30	1432.71	22307.29
61-AP-1B-S	1.0	EXT	0.0	0.70	6.8	1.30	AIR-CHANGE	0.30	1364.68	23199.56
61-AP-2B-NE	1.0	EXT	0.0	0.70	5.9	1.30	AIR-CHANGE	0.30	1170.08	19891.36
61-AP-0B-N	1.0	EXT	0.0	0.70	4.4	1.30	AIR-CHANGE	0.30	884.00	15028.00
61-AP-2B-SW	1.0	EXT	0.0	0.70	5.7	1.30	AIR-CHANGE	0.30	1139.18	19366.06
61-AP-2B-NW	1.0	EXT	0.0	0.70	5.4	1.30	AIR-CHANGE	0.30	1082.77	18407.09
61-AP-1B-NE	1.0	EXT	0.0	0.70	3.4	1.30	AIR-CHANGE	0.30	684.22	11631.74
61-AP-0B-S	1.0	EXT	0.0	0.70	2.5	1.30	AIR-CHANGE	0.30	504.55	8577.35
61-STAIR	1.0	INT	0.0	0.70	1.4	0.00	AIR-CHANGE	0.15	407.45	6926.65
61-CORR	1.0	EXT	0.0	0.70	3.0	0.20	AIR-CHANGE	0.15	902.11	15335.87
61-AP-0B-E	1.0	EXT	0.0	0.70	2.6	1.30	AIR-CHANGE	0.30	515.60	8765.20
61-AP-1B-W	1.0	EXT	0.0	0.70	4.4	1.30	AIR-CHANGE	0.30	878.34	14931.78
61-AP-3B-SE	1.0	EXT	0.0	0.70	7.2	1.30	AIR-CHANGE	0.30	1432.71	24356.07
62-LOUNGE	1.0	EXT	0.0	0.70	50.2	0.50	AIR-CHANGE	0.15	2511.73	33079.48
62-MECH	1.0	EXT	0.0	0.70	0.5	0.20	AIR-CHANGE	0.15	543.57	7158.82
62-DINING	1.0	EXT	0.0	0.70	53.5	0.50	AIR-CHANGE	0.15	1605.08	21138.90
62-PANTRY	1.0	EXT	0.0	0.70	4.8	0.50	AIR-CHANGE	0.15	144.85	1907.67
62-CORR	1.0	EXT	0.0	0.70	1.5	0.20	AIR-CHANGE	0.15	460.86	6069.53
62-ELEV-LOBBY	1.0	EXT	0.0	0.70	8.2	0.20	AIR-CHANGE	0.15	408.92	5385.48
62-VEST	1.0	INT	0.0	0.70	0.2	0.20	AIR-CHANGE	0.30	55.03	724.75
62-STAIR	1.0	EXT	0.0	0.70	0.7	0.00	AIR-CHANGE	0.15	213.78	2815.48
63-MECH	1.0	EXT	0.0	0.70	4.3	0.20	AIR-CHANGE	0.15	4342.97	65144.55
63-VEST	1.0	EXT	0.0	0.70	0.5	0.20	AIR-CHANGE	0.30	152.04	2280.60
63-CORR	1.0	INT	0.0	0.70	0.3	0.20	AIR-CHANGE	0.15	91.20	1368.00
1 DOE 2.1E MANHATTAN WEST RESIDENTIAL, NYC DOE-2.1E-121 Fri Feb 6 15:53:08 2015LDL RUN 1										
ANYEC: NYSECCC CASE FOR CODE			SIM: VIDARIS INC.							
REPORT- LV-B SUMMARY OF SPACES OCCURRING IN THE PROJECT								WEATHER FILE- NEW YORK CITY TMY2		
----- (CONTINUED) -----										
63-STAIR	1.0	EXT	0.0	0.70	1.1	0.00	AIR-CHANGE	0.15	315.51	4732.65
64-CORR	1.0	EXT	0.0	0.70	0.4	0.20	AIR-CHANGE	0.15	114.16	1027.44
64-STAIR	1.0	EXT	0.0	0.70	0.8	0.00	AIR-CHANGE	0.15	247.74	2229.66
64-STORAGE	1.0	EXT	0.0	0.70	0.6	0.20	AIR-CHANGE	0.15	184.42	2428.81
64-EMR	1.0	EXT	0.0	0.70	0.9	5.00	AIR-CHANGE	0.15	863.55	11372.95
65-STAIR	1.0	EXT	0.0	0.70	0.5	0.00	AIR-CHANGE	0.15	142.55	1710.60
65-EMR	1.0	EXT	0.0	0.70	0.4	5.00	AIR-CHANGE	0.15	386.04	4632.48
					-----					
BUILDING TOTALS					3929.7					
									761138.31	9081029.00

NUMBER OF EXTERIOR SURFACES 296 RECTANGULAR 296 OTHER 0  
 (U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	SHAFT	0.000	0.00	0.511	340.00	0.511	340.00	WEST
	SHAFT	0.000	0.00	0.565	529.92	0.565	529.92	UNDERGRND
	SHAFT	0.000	0.00	0.642	132.73	0.642	132.73	UNDERGRND
	C-BOH	0.000	0.00	0.642	729.69	0.642	729.69	UNDERGRND
	C-BOH	0.000	0.00	0.642	252.07	0.642	252.07	UNDERGRND
	C-BOH	0.000	0.00	0.565	1089.00	0.565	1089.00	UNDERGRND
	C-STORAGE	0.000	0.00	0.642	295.49	0.642	295.49	UNDERGRND
	C-STORAGE	0.000	0.00	0.642	922.48	0.642	922.48	UNDERGRND
	C-STORAGE	0.000	0.00	0.642	733.72	0.642	733.72	UNDERGRND
	C-STORAGE	0.000	0.00	0.565	5038.16	0.565	5038.16	UNDERGRND
	C-LOCKER	0.000	0.00	0.565	587.58	0.565	587.58	UNDERGRND
	C-TELE	0.000	0.00	0.642	285.09	0.642	285.09	UNDERGRND
	C-TELE	0.000	0.00	0.565	230.43	0.565	230.43	UNDERGRND
	C-MECH	0.000	0.00	0.642	367.12	0.642	367.12	UNDERGRND
	C-MECH	0.000	0.00	0.642	390.26	0.642	390.26	UNDERGRND
	C-MECH	0.000	0.00	0.565	4617.20	0.565	4617.20	UNDERGRND
	C-OFC	0.000	0.00	0.642	423.15	0.642	423.15	UNDERGRND
	C-OFC	0.000	0.00	0.642	402.35	0.642	402.35	UNDERGRND

C-OFC	0.000	0.00	0.565	1020.80	0.565	1020.80	UNDERGRND
C-STAIR	0.000	0.00	0.642	410.15	0.642	410.15	UNDERGRND
C-STAIR	0.000	0.00	0.565	476.11	0.565	476.11	UNDERGRND
C-ELEC	0.000	0.00	0.642	503.23	0.642	503.23	UNDERGRND
C-ELEC	0.000	0.00	0.565	2331.92	0.565	2331.92	UNDERGRND
C-CORR	0.000	0.00	0.642	97.89	0.642	97.89	UNDERGRND
C-CORR	0.000	0.00	0.642	1108.25	0.642	1108.25	UNDERGRND
C-CORR	0.000	0.00	0.642	58.76	0.642	58.76	UNDERGRND
C-CORR	0.000	0.00	0.565	2272.43	0.565	2272.43	UNDERGRND
C-ELEV-LOBBY	0.000	0.00	0.565	204.78	0.565	204.78	UNDERGRND
C-TANK	0.000	0.00	0.642	510.51	0.642	510.51	UNDERGRND
C-TANK	0.000	0.00	0.642	752.57	0.642	752.57	UNDERGRND
C-TANK	0.000	0.00	0.565	2092.15	0.565	2092.15	UNDERGRND
1-MOVE-IN	0.000	0.00	0.089	529.72	0.089	529.72	NORTH
1-BOH	0.000	0.00	0.089	1995.76	0.089	1995.76	NORTH
1-CORR	0.000	0.00	0.089	116.85	0.089	116.85	NORTH
1-OFF	0.000	0.00	0.089	304.00	0.089	304.00	NORTH
1-SECURITY	0.000	0.00	0.089	285.00	0.089	285.00	NORTH
1-STAIR	0.000	0.00	0.089	102.79	0.089	102.79	NORTH
1-STAIR	0.000	0.00	0.089	93.10	0.089	93.10	NORTH
1-PACKAGE	0.543	12.96	0.089	39.48	0.201	52.44	EAST
1-BOH	0.000	0.00	0.089	487.16	0.089	487.16	EAST
1-RETAIL	0.000	0.00	0.063	857.28	0.063	857.28	EAST
1-STAIR	0.000	0.00	0.089	327.94	0.089	327.94	EAST
1-MAILRM	0.543	256.34	0.089	652.81	0.217	909.15	SOUTH
1-LOBBY	0.543	133.90	0.063	347.94	0.196	481.84	SOUTH

1-RETAIL	0.543	205.03	0.089	526.09	0.216	731.12	SOUTH
1-PACKAGE	0.543	162.25	0.089	413.64	0.216	575.89	SOUTH
1-LOBBY	0.543	103.27	0.063	267.23	0.197	370.50	SOUTH
1-VEST	0.543	50.72	0.089	134.91	0.213	185.63	SOUTH
1-LOBBY	0.543	12.64	0.089	39.80	0.198	52.44	WEST
1-MAILRM	0.000	0.00	0.089	202.92	0.089	202.92	WEST
1-VEST	0.543	44.71	0.063	110.14	0.201	154.85	WEST
1-OFF	0.000	0.00	0.063	1163.75	0.063	1163.75	WEST
1-SALLYPORT	0.000	0.00	0.089	389.50	0.089	389.50	WEST
2-BASKETBALL	0.000	0.00	0.089	2537.29	0.089	2537.29	NORTH
2-GYM-N	0.000	0.00	0.089	549.45	0.089	549.45	NORTH
2-GYM-N	0.000	0.00	0.089	1481.93	0.089	1481.93	NORTH
2-STORAGE-N	0.000	0.00	0.089	498.00	0.089	498.00	NORTH
2-BASKETBALL	0.000	0.00	0.089	3814.65	0.089	3814.65	EAST
2-BASKETBALL	0.543	672.16	0.089	1865.13	0.209	2537.29	SOUTH
2-VEST	0.543	49.31	0.089	107.63	0.231	156.94	SOUTH
2-AMENITY-S	0.543	144.00	0.063	295.47	0.220	439.47	SOUTH
2-GYM-S	0.543	647.28	0.063	1285.70	0.224	1932.98	SOUTH
2-VEST	0.543	42.14	0.063	87.79	0.219	129.93	WEST
2-STORAGE-N	0.543	426.11	0.089	695.63	0.261	1121.74	WEST
2-CORR	0.543	23.67	0.063	47.72	0.222	71.40	WEST
2-AMENITY-S	0.543	82.22	0.089	154.16	0.246	236.38	WEST
2-BASKETBALL	0.000	0.00	0.047	7282.80	0.047	7282.80	ROOF
2-GYM-N	0.000	0.00	0.047	3653.20	0.047	3653.20	ROOF
3-FITNESS	0.000	0.00	0.089	410.04	0.089	410.04	NORTH
3-TOILET	0.000	0.00	0.089	473.11	0.089	473.11	NORTH

3-MECH	0.000	0.00	0.089	1129.99	0.089	1129.99	NORTH
3-LOUNGE	0.000	0.00	0.089	652.29	0.089	652.29	NORTH
3-OFC	0.543	217.61	0.063	569.83	0.196	787.44	SOUTH
3-FITNESS	0.000	0.00	0.063	424.66	0.063	424.66	SOUTH
3-LOUNGE	0.543	377.81	0.063	1073.82	0.188	1451.63	SOUTH
3-OFC	0.543	206.52	0.063	515.64	0.200	722.16	WEST
3-MECH	0.543	267.76	0.063	774.17	0.186	1041.93	WEST
4-MECH-N	0.543	661.91	0.089	1427.39	0.232	2089.30	NORTH
4-AP-1B-NE	0.543	375.15	0.089	394.35	0.310	769.51	NORTH
4-AP-1B-N	0.543	327.82	0.063	392.90	0.281	720.72	NORTH
4-AP-0B-N	0.543	244.21	0.089	238.91	0.318	483.12	NORTH
4-AP-0B-N	0.543	436.11	0.063	483.87	0.290	919.99	NORTH
4-AP-1B-NE	0.543	407.33	0.063	622.27	0.253	1029.60	EAST
4-MECH-N	0.543	320.06	0.089	394.01	0.292	714.07	EAST
4-AP-1B-SE	0.543	405.10	0.063	624.50	0.252	1029.60	EAST
4-MECH-E	0.543	282.10	0.063	271.03	0.308	553.13	EAST
4-AP-0B-S	0.543	201.09	0.063	337.47	0.242	538.56	SOUTH
4-AP-1B-S	0.543	604.56	0.063	859.38	0.261	1463.93	SOUTH
4-AP-1B-S	0.543	607.63	0.063	852.18	0.263	1459.81	SOUTH
4-AP-2B-SW	0.543	319.53	0.063	432.87	0.267	752.40	SOUTH
4-AP-1B-SE	0.543	336.06	0.063	433.44	0.272	769.51	SOUTH
4-MECH-W	0.543	647.52	0.063	953.59	0.257	1601.11	WEST
4-AP-2B-SW	0.543	504.29	0.063	865.87	0.240	1370.16	WEST
4-MECH-N	0.543	189.88	0.089	165.25	0.331	355.13	WEST
7-AP-1B-NE	0.543	3257.72	0.063	3000.84	0.313	6258.56	NORTH
7-AP-1B-NE	0.543	3248.15	0.063	4636.25	0.261	7884.40	NORTH



7-AP-1B-N	0.543	2841.13	0.063	3020.64	0.295	5861.77	NORTH
7-AP-0B-N	0.543	2116.48	0.063	1812.83	0.321	3929.31	NORTH
7-AP-0B-N	0.543	3779.66	0.063	3702.79	0.305	7482.45	NORTH
7-AP-2B-NW	0.543	4298.41	0.063	4807.30	0.289	9105.70	NORTH
7-AP-1B-SE	0.543	3570.52	0.063	4059.83	0.287	7630.35	EAST
7-AP-1B-NE	0.543	2709.34	0.063	2582.60	0.309	5291.94	EAST
7-AP-0B-E	0.543	2451.31	0.063	1647.95	0.350	4099.26	EAST
7-AP-1B-NE	0.543	3510.85	0.063	4119.50	0.284	7630.35	EAST
7-AP-1B-SE	0.543	2905.52	0.063	2462.57	0.323	5368.09	SOUTH
7-AP-0B-S	0.543	1742.75	0.063	2014.25	0.285	3757.00	SOUTH
7-AP-1B-S	0.543	5239.49	0.063	4972.92	0.309	10212.41	SOUTH
7-AP-1B-S	0.543	5266.17	0.063	4917.51	0.311	10183.68	SOUTH
7-AP-2B-SW	0.543	2793.18	0.063	2455.57	0.318	5248.75	SOUTH
7-AP-1B-W	0.543	1635.23	0.063	1771.81	0.293	3407.04	WEST
7-AP-1B-W	0.543	1427.11	0.063	2111.34	0.256	3538.45	WEST
7-AP-2B-SW	0.543	3329.93	0.063	7195.39	0.215	10525.32	WEST
7-AP-2B-NW	0.543	4175.79	0.063	3906.19	0.311	8081.99	WEST
33-AP-1B-NE	0.543	125.30	0.063	113.47	0.315	238.77	NORTH
33-AP-1B-NE	0.543	124.93	0.063	175.87	0.262	300.80	NORTH
33-AP-1B-N	0.543	109.27	0.063	114.36	0.297	223.63	NORTH
33-AP-0B-N	0.543	81.40	0.063	68.50	0.323	149.91	NORTH
33-AP-0B-N	0.543	145.37	0.063	140.09	0.307	285.46	NORTH
33-AP-2B-NW	0.543	165.32	0.063	182.07	0.291	347.39	NORTH
33-AP-1B-SE	0.543	137.33	0.063	182.15	0.269	319.48	EAST
33-AP-1B-NE	0.543	104.21	0.063	117.36	0.289	221.57	EAST
33-AP-0B-E	0.543	94.28	0.063	77.35	0.326	171.63	EAST

33-AP-1B-NE	0.543	135.03	0.063	184.44	0.266	319.48	EAST
33-AP-1B-SE	0.543	111.75	0.063	127.02	0.287	238.77	SOUTH
33-AP-0B-S	0.543	67.03	0.063	100.08	0.255	167.11	SOUTH
33-AP-1B-S	0.543	201.52	0.063	252.73	0.276	454.24	SOUTH
33-AP-1B-S	0.543	202.54	0.063	250.42	0.277	452.97	SOUTH
33-AP-2B-SW	0.543	107.43	0.063	126.03	0.284	233.46	SOUTH
33-AP-1B-W	0.543	117.78	0.063	162.77	0.264	280.55	WEST
33-AP-2B-SW	0.543	128.07	0.063	297.07	0.207	425.15	WEST
33-AP-2B-NW	0.543	160.61	0.063	165.85	0.299	326.45	WEST
33-AP-1B-NE	0.000	0.00	0.047	693.81	0.047	693.81	ROOF
33-AP-1B-SE	0.000	0.00	0.047	693.81	0.047	693.81	ROOF
33-AP-1B-SE	0.000	0.00	0.047	50.81	0.047	50.81	ROOF
33-AP-1B-NE	0.000	0.00	0.047	50.81	0.047	50.81	ROOF
33-CORR	0.000	0.00	0.047	24.61	0.047	24.61	ROOF
34-MECH-NE	0.543	193.32	0.063	274.68	0.261	468.00	NORTH
34-AP-0B-N	0.543	153.23	0.063	195.25	0.274	348.48	NORTH
34-AP-1B-NE	0.543	139.60	0.063	227.60	0.245	367.20	NORTH
34-MECH-NW	0.543	174.16	0.063	249.92	0.260	424.08	NORTH
34-MECH-E	0.543	94.28	0.063	115.24	0.279	209.52	EAST
34-MECH-NE	0.543	62.03	0.063	327.37	0.139	389.40	EAST
34-AP-1B-NE	0.543	104.21	0.063	166.27	0.248	270.48	EAST
34-AP-3B-SE	0.543	62.03	0.063	328.57	0.139	390.60	EAST
34-AP-2B-SW	0.543	109.86	0.063	175.14	0.248	285.00	SOUTH
34-AP-0B-S	0.543	77.13	0.063	126.87	0.244	204.00	SOUTH
34-AP-1B-S	0.543	211.67	0.063	342.85	0.246	554.52	SOUTH
34-AP-3B-SE	0.543	214.75	0.063	350.33	0.245	565.08	SOUTH

34-AP-1B-W	0.543	117.78	0.063	224.70	0.228	342.48	WEST
34-AP-2B-SW	0.543	138.94	0.063	380.06	0.191	519.00	WEST
34-MECH-NW	0.543	161.01	0.063	237.51	0.257	398.52	WEST
35-ELEC	0.543	73.24	0.063	90.16	0.278	163.40	NORTH
35-AP-1B-NE	0.543	134.94	0.063	130.26	0.307	265.20	NORTH
35-AP-1B-NE	0.543	139.60	0.063	167.00	0.281	306.60	NORTH
35-TANK	0.543	128.06	0.063	123.84	0.307	251.90	NORTH
35-AP-2B-NW	0.543	174.16	0.063	178.94	0.300	353.10	NORTH
35-AP-1B-NE	0.543	120.33	0.063	105.07	0.319	225.40	EAST
35-AP-1B-NE	0.543	62.03	0.063	262.47	0.155	324.50	EAST
35-AP-1B-SE	0.543	62.03	0.063	263.47	0.154	325.50	EAST
35-AP-0B-E	0.543	94.28	0.063	80.32	0.322	174.60	EAST
35-AP-1B-S	0.543	108.02	0.063	124.68	0.286	232.70	SOUTH
35-AP-2B-SW	0.543	109.86	0.063	127.64	0.285	237.50	SOUTH
35-AP-0B-S	0.543	77.13	0.063	92.87	0.281	170.00	SOUTH
35-AP-1B-SE	0.543	106.24	0.063	131.96	0.277	238.20	SOUTH
35-AP-1B-S	0.543	214.32	0.063	247.78	0.285	462.10	SOUTH
35-AP-2B-SW	0.543	185.82	0.063	246.68	0.269	432.50	WEST
35-AP-2B-NW	0.543	174.39	0.063	166.11	0.309	340.50	WEST
35-EMR	0.000	0.00	0.063	277.00	0.063	277.00	WEST
36-AP-0B-N	0.543	1098.57	0.063	1347.52	0.278	2446.10	NORTH
36-AP-1B-NE	0.543	2024.03	0.063	1946.02	0.307	3970.04	NORTH
36-AP-1B-NE	0.543	2115.74	0.063	2474.06	0.284	4589.80	NORTH
36-AP-1B-N	0.543	1920.89	0.063	1850.05	0.307	3770.94	NORTH
36-AP-2B-NW	0.543	1895.11	0.063	3390.80	0.235	5285.91	NORTH
36-AP-1B-NE	0.543	1786.45	0.063	1286.88	0.342	3073.33	EAST

36-AP-1B-NE	0.543	930.41	0.063	3494.15	0.164	4424.56	EAST
36-AP-0B-E	0.543	1414.22	0.063	966.46	0.348	2380.67	EAST
36-AP-1B-SE	0.543	930.41	0.063	3507.79	0.164	4438.19	EAST
36-AP-1B-S	0.543	1620.36	0.063	1367.51	0.323	2987.87	SOUTH
36-AP-2B-SW	0.543	1647.91	0.063	1401.59	0.322	3049.50	SOUTH
36-AP-0B-S	0.543	1156.94	0.063	1025.86	0.317	2182.80	SOUTH
36-AP-1B-SE	0.543	1593.62	0.063	1464.86	0.313	3058.49	SOUTH
36-AP-1B-S	0.543	3214.79	0.063	2718.57	0.323	5933.36	SOUTH
36-AP-2B-SW	0.543	2740.16	0.063	3079.13	0.289	5819.29	WEST
36-AP-0B-W	0.543	2024.03	0.063	1861.77	0.313	3885.80	WEST
36-AP-2B-NW	0.543	2521.46	0.063	1901.20	0.336	4422.66	WEST
51-AP-0B-N	0.543	292.95	0.063	434.50	0.256	727.46	NORTH
51-AP-2B-NW	0.543	699.85	0.063	873.49	0.276	1573.34	NORTH
51-AP-1B-NE	0.543	539.74	0.063	640.93	0.282	1180.67	NORTH
51-AP-1B-NE	0.543	558.40	0.063	806.58	0.259	1364.98	NORTH
51-AP-1B-N	0.543	512.24	0.063	609.22	0.282	1121.46	NORTH
51-AP-1B-SE	0.543	248.11	0.063	1201.02	0.145	1449.13	EAST
51-AP-1B-NE	0.543	481.33	0.063	522.15	0.293	1003.48	EAST
51-AP-1B-NE	0.543	248.11	0.063	1196.57	0.145	1444.67	EAST
51-AP-0B-E	0.543	387.05	0.063	390.27	0.302	777.32	EAST
51-AP-1B-S	0.543	432.10	0.063	603.88	0.263	1035.98	SOUTH
51-AP-0B-S	0.543	308.52	0.063	448.32	0.258	756.84	SOUTH
51-AP-2B-SW	0.543	439.44	0.063	616.57	0.263	1056.01	SOUTH
51-AP-1B-SE	0.543	424.97	0.063	635.50	0.255	1060.47	SOUTH
51-AP-1B-S	0.543	857.28	0.063	1199.99	0.263	2057.27	SOUTH
51-AP-2B-NW	0.543	671.93	0.063	866.23	0.272	1538.17	WEST

51-AP-2B-SW	0.543	729.79	0.063	1195.70	0.245	1925.49	WEST
51-AP-1B-W	0.543	500.86	0.063	710.08	0.261	1210.94	WEST
55-AP-2B-NE	0.543	1152.90	0.063	2431.62	0.217	3584.53	NORTH
55-AP-0B-N	0.543	864.49	0.063	1908.21	0.213	2772.71	NORTH
55-AP-2B-NW	0.543	1052.72	0.063	2248.75	0.216	3301.46	NORTH
55-AP-1B-NE	0.543	837.61	0.063	2026.65	0.203	2864.26	NORTH
55-AP-2B-NE	0.543	372.16	0.063	2049.91	0.137	2422.07	EAST
55-AP-1B-NE	0.543	721.99	0.063	960.39	0.269	1682.39	EAST
55-AP-0B-E	0.543	580.57	0.063	723.39	0.277	1303.96	EAST
55-AP-3B-SE	0.543	372.16	0.063	2057.37	0.136	2429.53	EAST
55-AP-0B-S	0.543	462.77	0.063	576.61	0.277	1039.38	SOUTH
55-AP-2B-SW	0.543	659.16	0.063	791.08	0.281	1450.24	SOUTH
55-AP-1B-S	0.543	1285.92	0.063	1539.36	0.281	2825.28	SOUTH
55-AP-3B-SE	0.543	1289.16	0.063	1880.94	0.258	3170.10	SOUTH
55-AP-1B-W	0.543	747.86	0.063	1083.24	0.259	1831.10	WEST
55-AP-2B-SW	0.543	1095.38	0.063	1816.21	0.243	2911.59	WEST
55-AP-2B-NW	0.543	1007.90	0.063	1318.01	0.271	2325.91	WEST
61-AP-2B-NE	0.543	204.65	0.063	447.64	0.213	652.29	NORTH
61-AP-0B-N	0.543	153.45	0.063	351.11	0.209	504.56	NORTH
61-AP-2B-NW	0.543	186.86	0.063	413.92	0.212	600.78	NORTH
61-AP-1B-NE	0.543	148.68	0.063	372.54	0.200	521.22	NORTH
61-AP-2B-NE	0.543	65.38	0.063	486.27	0.120	551.65	EAST
61-AP-1B-NE	0.543	126.84	0.063	256.34	0.222	383.18	EAST
61-AP-0B-E	0.543	102.00	0.063	194.99	0.228	296.99	EAST
61-AP-3B-SE	0.543	65.38	0.063	487.97	0.120	553.35	EAST
61-AP-0B-S	0.543	93.37	0.063	195.63	0.218	289.00	SOUTH

61-AP-2B-SW	0.543	132.99	0.063	270.25	0.221	403.24	SOUTH
61-AP-1B-S	0.543	259.44	0.063	526.13	0.221	785.57	SOUTH
61-AP-3B-SE	0.543	260.09	0.063	540.44	0.219	800.53	SOUTH
61-AP-1B-W	0.543	130.53	0.063	331.87	0.198	462.40	WEST
61-AP-2B-SW	0.543	208.76	0.063	526.49	0.199	735.25	WEST
61-AP-2B-NW	0.543	169.26	0.063	418.09	0.201	587.35	WEST
61-AP-2B-NE	0.000	0.00	0.047	152.95	0.047	152.95	ROOF
61-AP-1B-S	0.000	0.00	0.047	405.99	0.047	405.99	ROOF
61-AP-0B-N	0.000	0.00	0.047	647.62	0.047	647.62	ROOF
61-AP-1B-NE	0.000	0.00	0.047	837.23	0.047	837.23	ROOF
61-AP-1B-S	0.000	0.00	0.047	945.92	0.047	945.92	ROOF
61-AP-0B-S	0.000	0.00	0.047	39.23	0.047	39.23	ROOF
61-AP-0B-S	0.000	0.00	0.047	341.36	0.047	341.36	ROOF
61-CORR	0.000	0.00	0.047	266.28	0.047	266.28	ROOF
61-AP-2B-NE	0.000	0.00	0.047	27.03	0.047	27.03	ROOF
61-AP-2B-SW	0.000	0.00	0.047	481.28	0.047	481.28	ROOF
61-AP-2B-SW	0.000	0.00	0.047	224.98	0.047	224.98	ROOF
61-AP-2B-NE	0.000	0.00	0.047	154.63	0.047	154.63	ROOF
61-AP-3B-SE	0.000	0.00	0.047	945.57	0.047	945.57	ROOF
62-LOUNGE	0.000	0.00	0.089	84.42	0.089	84.42	NORTH
62-LOUNGE	0.543	506.47	0.089	219.99	0.405	726.46	NORTH
62-DINING	0.543	334.70	0.089	524.78	0.265	859.47	NORTH
62-MECH	0.000	0.00	0.089	111.68	0.089	111.68	EAST
62-DINING	0.543	106.13	0.063	218.12	0.220	324.25	EAST
62-LOUNGE	0.543	209.34	0.063	94.89	0.393	304.23	EAST
62-PANTRY	0.000	0.00	0.089	120.51	0.089	120.51	EAST

62-CORR	0.000	0.00	0.089	113.53	0.089	113.53	EAST
62-STAIR	0.000	0.00	0.089	343.34	0.089	343.34	EAST
62-MECH	0.000	0.00	0.063	297.25	0.063	297.25	SOUTH
62-CORR	0.000	0.00	0.063	132.49	0.063	132.49	SOUTH
62-LOUNGE	0.543	182.18	0.063	464.33	0.198	646.52	SOUTH
62-ELEV-LOBBY	0.000	0.00	0.063	187.01	0.063	187.01	SOUTH
62-LOUNGE	0.543	445.60	0.063	280.86	0.357	726.46	SOUTH
62-STAIR	0.000	0.00	0.063	107.99	0.063	107.99	SOUTH
62-MECH	0.000	0.00	0.089	193.86	0.089	193.86	WEST
62-LOUNGE	0.543	113.38	0.089	382.08	0.192	495.46	WEST
62-DINING	0.543	114.63	0.089	209.09	0.249	323.72	WEST
62-LOUNGE	0.000	0.00	0.089	103.91	0.089	103.91	WEST
62-LOUNGE	0.000	0.00	0.089	88.37	0.089	88.37	WEST
62-LOUNGE	0.000	0.00	0.047	1274.20	0.047	1274.20	ROOF
62-LOUNGE	0.000	0.00	0.047	69.28	0.047	69.28	ROOF
63-MECH	0.000	0.00	0.089	975.00	0.089	975.00	NORTH
63-STAIR	0.000	0.00	0.089	12.75	0.089	12.75	NORTH
63-VEST	0.000	0.00	0.089	118.80	0.089	118.80	EAST
63-MECH	0.000	0.00	0.089	624.15	0.089	624.15	EAST
63-STAIR	0.000	0.00	0.089	404.25	0.089	404.25	EAST
63-MECH	0.000	0.00	0.089	703.80	0.089	703.80	SOUTH
63-VEST	0.000	0.00	0.089	285.60	0.089	285.60	SOUTH
63-MECH	0.000	0.00	0.089	1147.65	0.089	1147.65	WEST
63-MECH	0.000	0.00	0.047	218.19	0.047	218.19	ROOF
63-MECH	0.000	0.00	0.047	443.15	0.047	443.15	ROOF
63-MECH	0.000	0.00	0.047	1909.32	0.047	1909.32	ROOF

63-VEST	0.000	0.00	0.047	150.99	0.047	150.99	ROOF
63-MECH	0.000	0.00	0.047	132.65	0.047	132.65	ROOF
63-MECH	0.000	0.00	0.047	727.37	0.047	727.37	ROOF
64-CORR	0.000	0.00	0.089	67.32	0.089	67.32	NORTH
64-CORR	0.000	0.00	0.089	17.28	0.089	17.28	NORTH
64-STAIR	0.000	0.00	0.089	87.12	0.089	87.12	NORTH
64-EMR	0.000	0.00	0.089	93.60	0.089	93.60	NORTH
64-EMR	0.000	0.00	0.089	151.11	0.089	151.11	NORTH
64-CORR	0.000	0.00	0.089	70.92	0.089	70.92	EAST
64-STAIR	0.000	0.00	0.089	230.22	0.089	230.22	EAST
64-EMR	0.000	0.00	0.089	245.25	0.089	245.25	SOUTH
64-STAIR	0.000	0.00	0.089	87.21	0.089	87.21	SOUTH
64-STORAGE	0.000	0.00	0.089	84.24	0.089	84.24	SOUTH
64-EMR	0.000	0.00	0.089	39.69	0.089	39.69	WEST
64-EMR	0.000	0.00	0.089	260.73	0.089	260.73	WEST
64-CORR	0.000	0.00	0.047	58.87	0.047	58.87	ROOF
64-EMR	0.000	0.00	0.047	790.49	0.047	790.49	ROOF
64-EMR	0.000	0.00	0.047	74.04	0.047	74.04	ROOF



	AVERAGE U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL AREA (SQFT)
NORTH	0.543	0.069	0.253	40748.7	64316.4	105065.1
EAST	0.543	0.067	0.234	23949.7	44290.6	68240.3
SOUTH	0.543	0.066	0.280	41721.5	50958.5	92680.1
WEST	0.543	0.069	0.257	26975.9	41181.8	68157.7
ROOF	0.000	0.047	0.047	0.0	23768.5	23768.5
ALL WALLS	0.543	0.068	0.257	133395.8	200747.3	334143.2
WALLS+ROOFS	0.543	0.066	0.243	133395.8	224515.8	357911.6
UNDERGRND	0.000	0.587	0.587	0.0	28866.0	28866.0
BUILDING	0.543	0.125	0.269	133395.8	253381.8	386777.6

NUMBER OF CONSTRUCTIONS 14 DELAYED 13 QUICK 1

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
MASS-WALL	0.092	0.70	3	DELAYED	10
SPANDREL-WALL	0.065	0.70	3	DELAYED	6
METAL-WALL	0.065	0.70	3	DELAYED	6
EW-C-CON	0.642	0.70	3	DELAYED	7
MECH-RF-CON	0.048	0.70	3	DELAYED	15
TERR-RF-CON	0.048	0.70	3	DELAYED	15
FL-CON	0.294	0.70	3	DELAYED	7
FL-ADIAB-CON	0.294	0.70	3	DELAYED	7
CL-CON	0.805	0.70	3	DELAYED	4
CL-ADIAB-CON	0.805	0.70	3	DELAYED	4
IW-CON	0.355	0.70	3	DELAYED	4
IW-ADIAB-CON	0.355	0.70	3	DELAYED	4
UW-CON	0.565	0.70	3	DELAYED	13
LV-CON	2.700	0.70	3	QUICK	0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1

ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L

REPORT- SV-A SYSTEM DESIGN PARAMETERS

CORR-SYS

WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE						
CORR-SYS	PVAVS		1.000	29383.9		98.						
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN	ELEC	DELTA-T	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING	COOLING	HEATING	
			(CFM )	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
13000.	8.981	2.1	13000.	8.981	2.1	1.000	1061.580	0.331	-630.884	0.25	0.37	
ZONE NAME	SUPPLY FLOW		EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION		HEATING	ADDITION	MULTIPLIER
	(CFM )		(CFM )	(KW)	RATIO	(CFM )	(KBTU/HR)	SENSIBLE	RATE	CAPACITY	RATE	
	(CFM )		(CFM )	(KW)	RATIO	(CFM )	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
	(CFM )		(CFM )	(KW)	RATIO	(CFM )	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
	(CFM )		(CFM )	(KW)	RATIO	(CFM )	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
4-CORR	402.		0.	0.000	1.000	402.	0.00	0.00	8.68	-14.76	-8.68	3.0
7-CORR	431.		0.	0.000	1.000	431.	0.00	0.00	9.30	-15.82	-9.30	26.0
33-CORR	596.		0.	0.000	1.000	596.	0.00	0.00	12.87	-21.87	-12.87	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1

ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L

REPORT- SV-A SYSTEM DESIGN PARAMETERS

RF-CORR-SYS

WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA ( SQFT )		MAX PEOPLE							
RF-CORR-SYS	PVAVS		1.000	25925.3		86.							
SUPPLY FAN ( CFM )		ELEC ( KW )	DELTA-T ( F )	RETURN FAN ( CFM )	ELEC ( KW )	DELTA-T ( F )	OUTSIDE AIR RATIO	COOLING CAPACITY ( KBTU/HR )	SENSIBLE ( SHR )	HEATING CAPACITY ( KBTU/HR )	COOLING EIR ( BTU/BTU )	HEATING EIR ( BTU/BTU )	
13000.		12.829	3.1	13000.	6.888	1.6	1.000	990.518	0.366	-617.409	0.25	0.37	
ZONE NAME			SUPPLY FLOW ( CFM )	EXHAUST FLOW ( CFM )	FAN ( KW )	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW ( CFM )	COOLING CAPACITY ( KBTU/HR )	SENSIBLE ( SHR )	EXTRACTION RATE ( KBTU/HR )	HEATING CAPACITY ( KBTU/HR )	ADDITION RATE ( KBTU/HR )	MULTIPLIER
34-CORR			454.	0.	0.000	1.000	454.	0.00	0.00	9.80	-16.66	-9.80	1.0
35-CORR			374.	0.	0.000	1.000	374.	0.00	0.00	8.07	-13.72	-8.07	1.0
36-CORR			338.	0.	0.000	1.000	338.	0.00	0.00	7.30	-12.40	-7.30	15.0

51-CORR	423.	0.	0.000	1.000	423.	0.00	0.00	9.13	-15.53	-9.13	4.0
55-CORR	670.	0.	0.000	1.000	670.	0.00	0.00	14.47	-24.60	-14.47	6.0
61-CORR	793.	0.	0.000	1.000	793.	0.00	0.00	17.14	-29.13	-17.14	1.0
62-CORR	409.	0.	0.000	1.000	409.	0.00	0.00	8.84	-15.03	-8.84	1.0
63-CORR	80.	0.	0.000	1.000	80.	0.00	0.00	1.72	-2.93	-1.72	1.0
64-CORR	112.	0.	0.000	1.000	112.	0.00	0.00	2.42	-4.12	-2.42	1.0

1 DOE 2.1E  
ANYEC: NEW YORK STATE ENERGY CODE  
REPORT- SV-A SYSTEM DESIGN PARAMETERS

Manhattan West Residential  
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
RES-S-SYS

DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE						
RES-S-SYS	PTAC		1.000	212346.4		1062.						
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
201268.	0.000	0.9	0.	0.000	0.0	0.001	0.000	0.000	0.000	0.29	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
4-AP-0B-S		357.	0.	0.107	1.000	0.	10.44	0.64	7.63	-7.33	-7.71	3.0
4-AP-1B-S		1963.	0.	0.589	1.000	2.	57.04	0.64	41.95	-40.29	-42.40	3.0
7-AP-0B-S		369.	0.	0.111	1.000	0.	10.78	0.64	7.88	-7.57	-7.96	26.0
7-AP-1B-S		2025.	0.	0.607	1.000	2.	58.86	0.64	43.28	-41.57	-43.74	26.0
33-AP-0B-S		441.	0.	0.132	1.000	0.	12.91	0.64	9.42	-9.05	-9.52	1.0
33-AP-1B-S		2421.	0.	0.726	1.000	2.	70.58	0.64	51.75	-49.70	-52.30	1.0
34-AP-0B-S		551.	0.	0.165	1.000	1.	16.09	0.64	11.77	-11.31	-11.90	1.0
34-AP-1B-S		1485.	0.	0.446	1.000	1.	43.26	0.64	31.74	-30.49	-32.08	1.0
35-AP-1B-S		1908.	0.	0.573	1.000	2.	55.59	0.64	40.79	-39.18	-41.22	1.0
35-AP-0B-S		469.	0.	0.141	1.000	0.	13.71	0.64	10.02	-9.62	-10.13	1.0

36-AP-1B-S	1942.	0.	0.583	1.000	2.	56.58	0.64	41.50	-39.86	-41.95	15.0
36-AP-0B-S	477.	0.	0.143	1.000	0.	13.94	0.64	10.19	-9.78	-10.29	15.0
51-AP-1B-S	2258.	0.	0.677	1.000	2.	65.74	0.64	48.26	-46.35	-48.77	4.0
51-AP-0B-S	552.	0.	0.166	1.000	1.	16.13	0.64	11.80	-11.33	-11.92	4.0
55-AP-1B-S	2076.	0.	0.623	1.000	2.	60.41	0.64	44.38	-42.62	-44.85	6.0
55-AP-0B-S	766.	0.	0.230	1.000	1.	22.34	0.64	16.37	-15.73	-16.55	6.0
4-AP-1B-SE	728.	0.	0.218	1.000	1.	21.02	0.65	15.56	-14.95	-15.73	3.0
7-AP-1B-SE	742.	0.	0.223	1.000	1.	21.45	0.65	15.86	-15.24	-16.03	26.0
33-AP-1B-SE	897.	0.	0.269	1.000	1.	25.86	0.65	19.18	-18.42	-19.38	1.0
34-AP-3B-SE	1684.	0.	0.505	1.000	2.	48.91	0.64	35.98	-34.56	-36.37	1.0
35-AP-1B-SE	790.	0.	0.237	1.000	1.	22.95	0.64	16.89	-16.22	-17.07	1.0
36-AP-1B-SE	798.	0.	0.239	1.000	1.	23.19	0.64	17.06	-16.38	-17.24	15.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS RES-S-SYS WEATHER FILE- NEW YORK CITY TMY2

----- (CONTINUED) -----

51-AP-1B-SE	917.	0.	0.275	1.000	1.	26.61	0.64	19.59	-18.82	-19.80	4.0
55-AP-3B-SE	2300.	0.	0.690	1.000	2.	66.79	0.64	49.17	-47.22	-49.69	6.0
61-AP-1B-S	2434.	0.	0.730	1.000	2.	70.63	0.64	52.03	-49.97	-52.58	1.0
61-AP-0B-S	890.	0.	0.267	1.000	1.	25.89	0.64	19.03	-18.28	-19.23	1.0
61-AP-3B-SE	2614.	0.	0.784	1.000	3.	75.77	0.65	55.87	-53.66	-56.46	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS RES-W-SYS WEATHER FILE- NEW YORK CITY TMY2

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SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE						
RES-W-SYS	PTAC		1.000	108186.0		541.						
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
136096.	0.000	0.9	0.	0.000	0.0	0.001	0.000	0.000	0.000	0.30	0.37	

ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-AP-1B-W	1351.	0.	0.405	1.000	1.	38.02	0.66	28.86	-23.25	-24.80	26.0
33-AP-1B-W	703.	0.	0.211	1.000	1.	20.15	0.65	15.02	-14.43	-15.18	1.0
34-AP-1B-W	877.	0.	0.263	1.000	1.	25.06	0.65	18.74	-18.00	-18.94	1.0
36-AP-0B-W	1026.	0.	0.308	1.000	1.	29.38	0.65	21.92	-21.05	-22.15	15.0
51-AP-1B-W	1041.	0.	0.312	1.000	1.	29.78	0.65	22.25	-21.37	-22.49	4.0
55-AP-1B-W	1429.	0.	0.429	1.000	1.	40.80	0.65	30.54	-29.33	-30.87	6.0
4-AP-2B-SW	1001.	0.	0.300	1.000	1.	28.56	0.66	21.38	-20.54	-21.61	3.0
7-AP-2B-SW	971.	0.	0.291	1.000	1.	27.77	0.65	20.76	-19.94	-20.98	26.0
33-AP-2B-SW	1110.	0.	0.333	1.000	1.	31.74	0.65	23.71	-22.78	-23.97	1.0
34-AP-2B-SW	1352.	0.	0.406	1.000	1.	38.61	0.65	28.89	-27.75	-29.20	1.0
35-AP-2B-SW	1205.	0.	0.362	1.000	1.	34.36	0.66	25.75	-24.74	-26.03	1.0
36-AP-2B-SW	1208.	0.	0.362	1.000	1.	34.46	0.66	25.82	-24.80	-26.09	15.0
51-AP-2B-SW	1441.	0.	0.432	1.000	1.	41.07	0.66	30.79	-29.58	-31.12	4.0
55-AP-2B-SW	1941.	0.	0.582	1.000	2.	55.25	0.66	41.47	-39.84	-41.92	6.0
61-AP-1B-W	1593.	0.	0.478	1.000	2.	45.43	0.66	34.04	-32.70	-34.40	1.0
61-AP-2B-SW	2235.	0.	0.670	1.000	2.	63.53	0.66	47.76	-45.88	-48.27	1.0

1 DOE 2.1E
Manhattan West Residential
DOE-2.1E-121
Fri Feb 6 15:53:08 2015
SDL RUN 1

ANYEC: NEW YORK STATE ENERGY CODE
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L

REPORT- SV-A
SYSTEM DESIGN PARAMETERS
RES-E-SYS
WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE					
RES-E-SYS	PTAC		1.000	113370.6		567.					
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
135919.	0.000	0.9	0.	0.000	0.0	0.001	0.000	0.000	0.000	0.30	0.37

ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-AP-0B-E	437.	0.	0.131	1.000	0.	12.71	0.64	9.34	-8.97	-9.44	26.0
33-AP-0B-E	539.	0.	0.162	1.000	1.	15.63	0.65	11.52	-11.07	-11.65	1.0
35-AP-0B-E	557.	0.	0.167	1.000	1.	15.75	0.66	11.90	-11.43	-12.03	1.0
36-AP-0B-E	557.	0.	0.167	1.000	1.	15.79	0.66	11.91	-11.44	-12.04	15.0
51-AP-0B-E	640.	0.	0.192	1.000	1.	18.09	0.66	13.67	-13.13	-13.82	4.0
55-AP-0B-E	872.	0.	0.262	1.000	1.	24.62	0.66	18.64	-17.91	-18.84	6.0
4-AP-1B-NE	780.	0.	0.234	1.000	1.	22.47	0.65	16.67	-16.01	-16.85	3.0
7-AP-1B-NE	1505.	0.	0.452	1.000	2.	43.31	0.65	32.17	-30.90	-32.52	26.0
33-AP-1B-NE	1688.	0.	0.506	1.000	2.	48.59	0.65	36.08	-34.65	-36.46	1.0
34-AP-1B-NE	943.	0.	0.283	1.000	1.	27.20	0.65	20.16	-19.37	-20.38	1.0
35-AP-1B-NE	1885.	0.	0.565	1.000	2.	54.16	0.65	40.28	-38.69	-40.71	1.0
36-AP-1B-NE	1876.	0.	0.563	1.000	2.	53.95	0.65	40.09	-38.51	-40.52	15.0
51-AP-1B-NE	2102.	0.	0.631	1.000	2.	60.47	0.65	44.92	-43.15	-45.40	4.0
55-AP-2B-NE	2078.	0.	0.623	1.000	2.	59.93	0.65	44.42	-42.66	-44.89	6.0
55-AP-1B-NE	1288.	0.	0.386	1.000	1.	36.24	0.66	27.52	-26.43	-27.82	6.0
61-AP-1B-NE	1457.	0.	0.437	1.000	1.	41.93	0.65	31.15	-29.92	-31.48	1.0
61-AP-2B-NE	2195.	0.	0.658	1.000	2.	63.36	0.65	46.90	-45.05	-47.40	1.0
61-AP-0B-E	917.	0.	0.275	1.000	1.	25.88	0.66	19.59	-18.82	-19.80	1.0

ANYEC: NEW YORK STATE ENERGY CODE

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L

REPORT- SV-A SYSTEM DESIGN PARAMETERS

RES-N-SYS

WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE					
RES-N-SYS	PTAC		1.000	147213.9		736.					
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
159103.	0.000	0.9	0.	0.000	0.0	0.001	0.000	0.000	0.000	0.30	0.37
ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
4-AP-1B-N	547.	0.	0.164	1.000	1.	15.90	0.64	11.70	-11.24	-11.82	3.0
4-AP-0B-N	1090.	0.	0.327	1.000	1.	31.56	0.65	23.29	-22.37	-23.54	3.0
7-AP-1B-N	570.	0.	0.171	1.000	1.	16.55	0.64	12.18	-11.70	-12.31	26.0
7-AP-0B-N	1129.	0.	0.339	1.000	1.	32.71	0.65	24.14	-23.18	-24.39	26.0
33-AP-1B-N	689.	0.	0.207	1.000	1.	19.96	0.65	14.72	-14.14	-14.88	1.0
33-AP-0B-N	1351.	0.	0.405	1.000	1.	39.05	0.65	28.87	-27.73	-29.18	1.0
34-AP-0B-N	1105.	0.	0.332	1.000	1.	31.92	0.65	23.62	-22.69	-23.87	1.0
36-AP-0B-N	505.	0.	0.152	1.000	1.	14.66	0.64	10.80	-10.37	-10.91	15.0
36-AP-1B-N	808.	0.	0.243	1.000	1.	23.41	0.65	17.28	-16.59	-17.46	15.0
51-AP-0B-N	578.	0.	0.174	1.000	1.	16.77	0.64	12.36	-11.87	-12.49	4.0
51-AP-1B-N	924.	0.	0.277	1.000	1.	26.73	0.65	19.74	-18.96	-19.95	4.0
55-AP-0B-N	1494.	0.	0.448	1.000	1.	43.17	0.65	31.92	-30.66	-32.26	6.0
7-AP-2B-NW	1109.	0.	0.333	1.000	1.	31.57	0.66	23.70	-22.77	-23.95	26.0
33-AP-2B-NW	1261.	0.	0.378	1.000	1.	35.86	0.66	26.94	-25.88	-27.23	1.0
35-AP-2B-NW	1347.	0.	0.404	1.000	1.	38.28	0.66	28.79	-27.65	-29.10	1.0
36-AP-2B-NW	1241.	0.	0.372	1.000	1.	35.31	0.66	26.52	-25.47	-26.80	15.0



51-AP-2B-NW	1525.	0.	0.457	1.000	2.	43.34	0.66	32.59	-31.30	-32.94	4.0
55-AP-2B-NW	2023.	0.	0.607	1.000	2.	57.47	0.66	43.23	-41.53	-43.70	6.0
61-AP-0B-N	1674.	0.	0.502	1.000	2.	48.32	0.65	35.77	-34.36	-36.15	1.0
61-AP-2B-NW	2231.	0.	0.669	1.000	2.	63.34	0.66	47.68	-45.80	-48.19	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-3-4 WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE							
AC-3-4	PVAVS	1.000	11748.2	147.							
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
15086.	10.968	2.2	15086.	4.405	0.9	0.431	790.472	0.475	-314.358	0.26	0.37
ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
2-GYM-S	5581.	0.	0.000	0.431	2403.	0.00	0.00	120.55	-90.82	-51.90	1.0
2-GYM-N	9505.	0.	0.000	0.431	4092.	0.00	0.00	205.32	-154.68	-88.39	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-2 WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE								
AC-4-2	PSZ	1.000	7333.7	92.								
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
8023.	5.228	2.0	8023.	2.568	1.0	0.270	358.795	0.547	-300.043	0.29	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
2-BASKETBALL		8023.	0.	0.000	1.000	2166.	0.00	0.00	173.29	-303.25	-173.29	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-3-AMENITY-S WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE								
AC-4-3-AMENITY-S	PVAVS	1.000	11262.9	149.								
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
10539.	6.524	1.9	10539.	3.494	1.0	0.146	467.598	0.496	-242.841	0.29	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
3-LOUNGE		3746.	0.	0.000	0.381	547.	0.00	0.00	80.91	-53.95	-1030.83	1.0
3-TOILET		2361.	0.	0.000	0.381	345.	0.00	0.00	50.99	-89.23	-50.99	1.0
3-CORR		748.	0.	0.000	0.381	109.	0.00	0.00	16.97	-28.29	-16.16	1.0
3-STORAGE		131.	0.	0.000	0.381	19.	0.00	0.00	4.97	-4.97	-2.84	1.0
3-OFC		1618.	0.	0.000	0.381	236.	0.00	0.00	34.96	-23.31	-1013.32	1.0

3-FITNESS	1934.	0.	0.000	0.381	283.	0.00	0.00	41.78	-73.12	-41.78	1.0
3-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-63-2 WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE								
AC-63-2	PVAVS	1.000	4670.6	117.								
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
21835.	20.010	2.8	21835.	6.472	0.9	0.137	761.236	0.621	-585.813	0.29	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
62-LOUNGE		13578.	0.	0.000	0.162	1860.	0.00	0.00	293.28	-513.25	-293.28	1.0
62-ELEV-LOBBY		954.	0.	0.000	0.162	131.	0.00	0.00	20.61	-5.84	-3.34	1.0
62-DINING		6905.	0.	0.000	0.162	946.	0.00	0.00	149.14	-260.99	-149.14	1.0
62-PANTRY		398.	0.	0.000	0.162	55.	0.00	0.00	8.61	-15.06	-8.61	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
REPORT- SV-A SYSTEM DESIGN PARAMETERS LOBBY-SYS WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE								
LOBBY-SYS	PSZ	1.000	1786.4	36.								
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
8000.	5.245	2.0	8000.	3.221	1.2	0.500	432.004	0.435	-389.222	0.29	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER

1-LOBBY 8000. 0. 0.000 1.000 4000. 0.00 0.00 172.80 -302.40 -1172.80 1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
REPORT- SV-A SYSTEM DESIGN PARAMETERS RETAIL-SYS WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE								
RETAIL-SYS	PSZ	1.000	2807.9	56.								
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
2808.	2.425	2.7	0.	0.000	0.0	0.200	94.571	0.669	-151.524	0.26	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
1-RETAIL		2808.	0.	0.000	1.000	562.	0.00	0.00	60.65	-166.79	-60.65	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
REPORT- SV-A SYSTEM DESIGN PARAMETERS BOH-SYS WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )	MAX PEOPLE								
BOH-SYS	PVAVS	1.000	21354.2	94.								
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
22167.	17.395	2.4	22167.	8.376	1.2	0.125	821.745	0.631	-559.874	0.31	0.37	
ZONE NAME		SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
C-ELEV-LOBBY		145.	0.	0.000	0.386	18.	0.00	0.00	3.13	-5.48	-3.13	1.0
C-BOH		1442.	0.	0.000	0.386	180.	0.00	0.00	54.49	-54.49	-31.14	1.0
C-STORAGE		5141.	0.	0.000	0.386	643.	0.00	0.00	194.34	-194.34	-111.05	1.0
C-OFC		1906.	0.	0.000	0.800	238.	0.00	0.00	41.17	-72.05	-30.88	1.0

C-LOCKER	952.	0.	0.000	0.386	119.	0.00	0.00	20.56	-35.98	-20.56	1.0
C-CORR	4080.	0.	0.000	0.386	510.	0.00	0.00	92.53	-154.21	-66.09	1.0
1-MOVE-IN	439.	0.	0.000	0.386	55.	0.00	0.00	16.59	-16.59	-9.48	1.0
1-BOH	2495.	0.	0.000	0.386	312.	0.00	0.00	94.30	-94.30	-53.89	1.0
1-PACKAGE	567.	0.	0.000	0.386	71.	0.00	0.00	21.42	-21.42	-12.24	1.0
1-MAILRM	2245.	0.	0.000	0.800	281.	0.00	0.00	48.49	-84.85	-36.37	1.0
1-CORR	459.	0.	0.000	0.386	57.	0.00	0.00	10.40	-17.34	-9.91	1.0
1-OFF	804.	0.	0.000	0.386	100.	0.00	0.00	17.36	-30.38	-17.36	1.0
2-CORR	208.	0.	0.000	0.386	26.	0.00	0.00	4.71	-7.85	-4.49	1.0
2-VEST	205.	0.	0.000	0.386	26.	0.00	0.00	7.75	-7.75	-4.43	1.0
2-AMENITY-S	1010.	0.	0.000	0.386	126.	0.00	0.00	21.82	-38.18	-21.82	1.0
3-ELEV-LOBBY	71.	0.	0.000	0.386	9.	0.00	0.00	1.54	-1.04	-0.59	1.0

1 DOE 2.1E

Manhattan West Residential

DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1

ANYEC: NEW YORK STATE ENERGY CODE

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L

REPORT- SV-A SYSTEM DESIGN PARAMETERS

AC-B1-1-5

WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE						
AC-B1-1-5	PVAVS		1.000	7179.0		7.						
	SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
	21323.	13.895	2.0	12591.	5.185	1.3	0.001	210.745	1.382	-415.077	0.26	0.37
ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
C-MECH	13334.	0.	0.000	1.000	13.	0.00	0.00	288.01	-288.01	-288.01	1.0	
C-TELE	1102.	0.	0.000	1.000	1.	0.00	0.00	23.80	-23.80	-23.80	1.0	
C-ELEC	6888.	0.	0.000	1.000	7.	0.00	0.00	148.79	-148.79	-148.79	1.0	

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-1-1 WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE						
AC-1-1	PVAVS		1.000	273.0		2.						
	SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
	3178.	2.119	2.1	0.	0.000	0.0	0.157	24.955	1.256	-94.344	0.26	0.37
	ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
1-SECURITY		3178.	0.	0.000	1.000	499.	0.00	0.00	17.16	-68.65	-68.65	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-36-1-4 WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE						
AC-36-1-4	PVAVS		1.000	2182.1		2.						
	SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
	1358.	0.774	1.8	0.	0.000	0.0	0.001	17.766	1.026	-26.815	0.26	0.37
	ZONE NAME	SUPPLY FLOW (CFM )	EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
35-ELEC		206.	0.	0.000	1.000	0.	0.00	0.00	4.46	-4.46	-4.46	1.0
35-TANK		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0
35-EMR		1152.	0.	0.000	1.000	1.	0.00	0.00	24.89	-24.89	-24.89	1.0

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS EMR-SYS WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE							
EMR-SYS	PVAVS		1.000	1249.6		1.							
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
8863.	3.657	1.3	0.	0.000	0.0	0.001	121.650	0.942	-259.959	0.25	0.19	-179.585	
ZONE NAME	SUPPLY FLOW (CFM )		EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
64-EMR	5759.		0.	0.000	1.000	6.	0.00	0.00	124.39	-124.39	-124.39	1.0	
65-EMR	3104.		0.	0.000	1.000	3.	0.00	0.00	67.05	-67.05	-67.05	1.0	

1 DOE 2.1E Manhattan West Residential DOE-2.1E-121 Fri Feb 6 15:53:08 2015SDL RUN 1  
 ANYEC: NEW YORK STATE ENERGY CODE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L  
 REPORT- SV-A SYSTEM DESIGN PARAMETERS SALLY-SYS WEATHER FILE- NEW YORK CITY TMY2

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT )		MAX PEOPLE							
SALLY-SYS	PVAVS		1.000	660.0		4.							
SUPPLY FAN (CFM )	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM )	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
5741.	2.522	1.4	5741.	2.086	1.1	0.071	42.568	1.116	-45.005	0.25	0.27	-142.138	
ZONE NAME	SUPPLY FLOW (CFM )		EXHAUST FLOW (CFM )	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM )	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
1-SALLYPORT	5741.		0.	0.000	1.000	409.	0.00	0.00	31.00	-124.01	-124.01	1.0	

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL	ANNUAL	FALSE	ELEC	THERMAL											
													HOURS	LOAD	LOAD	USED	USED											
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	-	110+	-----	-----	-----	-----	-----
HW-BOILER	2277		722		467		462		354		409		294		202		165		83		0		0	5435	14109.1	0.0	1.	20572.8
	2999		929		716		455		247		47		33		8		1		0		0		0					
DHW-HEATER	2338		217		0		0		918		2001		1248		1037		548		360		93		93	8760	7690.6	0.0	0.	9833.3
	2338		217		0		0		918		2001		1248		1037		548		360		93		93					

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 23878. KWH  
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 0. KWH  
 CONDENSER WATER PUMP ELECTRICAL USE = 0. KWH  
 TOWER OR CONDENSER FAN ELECTRICAL USE = 0. KWH

#### NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY



1 DOE 2.1E

ANYEC: NEW YORK STATE ENERGY CODE

REPORT- PS-D PLANT LOADS SATISFIED

Manhattan West Residential

SIM: VIDARIS INC.

DOE-2.1E-121 Fri Feb 6 15:53:08 2015PDL RUN 1

WEATHER FILE- NEW YORK CITY TMY2

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	14109.1	64.7
DHW-HEATER	7690.6	35.3
	=====	=====
LOAD SATISFIED	21799.7	100.0
TOTAL LOAD ON PLANT	21800.0	
ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	5913726.0	100.0
	=====	=====
LOAD SATISFIED	5913726.0	100.0
TOTAL LOAD ON PLANT	5913709.5	

DOE-2.1E-121 Fri Feb 6 15:53:08 2015PDL RUN 1

WEATHER FILE- NEW YORK CITY TMY2

WEATHER FILE- NEW YORK CITY TMY2

[illegible]

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=====
0  TOTAL KWH  510801.  460333.  432950.  407691.  448945.  549406.  661165.  610743.  505731.  419591.  399064.  507299.  5913719.
1 DOE 2.1E
  ANYEC: NEW YORK STATE ENERGY CODE      SIM: VIDARIS INC.
  REPORT- PS-E  MONTHLY ENERGY END-USE SUMMARY
                                           WEATHER FILE- NEW YORK CITY TMY2
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0FUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SOURCE USES	72.8	65.8	72.8	70.5	72.8	70.5	72.8	72.8	70.5	72.8	70.5	72.8	857.3
MAX MBTU	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202
DAY/HR	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	
0 SPACE HEAT	6220.8	4440.2	3604.1	1799.7	259.5	1.7	1.8	1.8	1.7	694.6	2368.6	4651.5	24045.9
MAX MBTU	22.667	23.867	18.711	12.523	11.509	0.002	0.002	0.002	0.002	10.633	17.781	20.181	23.867
DAY/HR	22/20	4/ 9	6/ 9	2/ 9	7/ 7	1/ 2	1/ 2	1/ 2	1/ 2	30/ 9	15/21	24/20	
0DOMHOT WATER	916.7	858.4	953.1	906.9	873.0	783.0	753.8	718.7	692.7	744.3	772.4	860.1	9833.2
MAX MBTU	2.168	2.249	2.256	2.217	2.063	1.909	1.776	1.691	1.684	1.753	1.883	2.032	2.256
DAY/HR	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	1/ 8	
0 TOTAL MBTU	7210.4	5364.4	4630.0	2777.1	1205.3	855.2	828.4	793.3	764.8	1511.7	3211.5	5584.5	34736.5

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1 DOE 2.1E                               Manhattan West Residential          DOE-2.1E-121  Fri Feb  6 18:02:16 2015PDL RUN   1
  ANYEC: NEW YORK STATE ENERGY CODE      SIM: VIDARIS INC.
  REPORT- PS-F  ENERGY-RESOURCE PEAK BREAKDOWN BY END-USE                WEATHER FILE- NEW YORK CITY TMY2

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ENERGY-RESOURCE: ELECTRICITY

UNITS: KWH

0		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	PEAK DEMAND:	959.1	957.6	964.5	1328.1	1848.2	1970.8	2189.5	1858.9	1883.4	1229.7	934.1	961.6
	DAY/HR:	9/10	4/ 9	25/ 9	30/17	10/16	16/17	1/17	27/17	6/17	8/17	26/ 9	25/10

0BREAKDOWN

0 AREA LIGHTS:	160.89	168.58	168.58	152.89	152.89	152.89	152.89	152.89	149.86	152.89	168.58	160.89
(%):	16.77	17.60	17.48	11.51	8.27	7.76	6.98	8.22	7.96	12.43	18.05	16.73
0MISC EQUIPMT:	439.49	439.49	439.49	433.50	432.50	433.50	433.50	433.50	434.50	433.50	439.49	439.49
(%):	45.82	45.90	45.57	32.64	23.40	22.00	19.80	23.32	23.07	35.25	47.05	45.71
0 SOURCE USES:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE HEAT:	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
(%):	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
0 SPACE COOL:	29.92	0.00	16.20	427.22	946.54	1069.06	1283.38	957.30	992.18	369.39	6.04	16.06
(%):	3.12	0.00	1.68	32.17	51.21	54.24	58.62	51.50	52.68	30.04	0.65	1.67
0PUMPS & MISC:	8.84	11.51	8.87	8.13	8.13	7.51	7.51	7.51	3.75	8.13	8.87	8.85
(%):	0.92	1.20	0.92	0.61	0.44	0.38	0.34	0.40	0.20	0.66	0.95	0.92
0 VENT FANS:	284.68	306.64	300.00	274.44	290.76	275.95	280.27	275.79	271.21	233.90	279.80	301.74
(%):	29.68	32.02	31.10	20.66	15.73	14.00	12.80	14.84	14.40	19.02	29.95	31.38
0DOMHOT WATER:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 EXT LIGHTS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 EXT MISC:	33.60	31.36	31.36	31.92	17.36	31.92	31.92	31.92	31.92	31.92	31.36	33.60
(%):	3.50	3.27	3.25	2.40	0.94	1.62	1.46	1.72	1.69	2.60	3.36	3.49

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1 DOE 2.1E                               Manhattan West Residential          DOE-2.1E-121  Fri Feb  6 18:02:16 2015PDL RUN  1
  ANYEC: NEW YORK STATE ENERGY CODE      SIM: VIDARIS INC.
  REPORT- PS-F  ENERGY-RESOURCE PEAK BREAKDOWN BY END-USE                WEATHER FILE- NEW YORK CITY TMY2

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ENERGY-RESOURCE: NATURAL-GAS

UNITS: THERM

0		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	PEAK DEMAND:	248.1	258.8	207.3	145.1	131.6	21.1	19.8	19.0	18.9	122.5	191.3	218.4
	DAY/HR:	23/ 8	4/ 9	6/ 9	2/ 9	7/ 9	1/18	1/18	1/18	1/18	30/ 9	15/21	24/20

0BREAKDOWN

[illegible]



ENERGY TYPE:	ELECTRICITY	NATURAL-GAS
UNITS: MBTU		
CATEGORY OF USE		
-----		
AREA LIGHTS	3879.3	0.0
MISC EQUIPMT	7109.3	0.0
SOURCE USES	0.0	857.3
SPACE HEAT	4.5	24044.8
SPACE COOL	2813.8	0.0
PUMPS & MISC	214.0	0.0
VENT FANS	5441.9	0.0
DOMHOT WATER	0.0	9833.3
EXT LIGHTS	23.0	0.0
EXT MISC	697.6	0.0
	-----	-----
TOTAL	20183.3	34735.3

TOTAL SITE ENERGY	54918.66 MBTU	72.3 KBTU/SQFT-YR GROSS-AREA	72.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	95291.34 MBTU	125.4 KBTU/SQFT-YR GROSS-AREA	125.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE	=	1.9
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED	=	0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

ANYEC: NEW YORK STATE ENERGY CODE

SIM: VIDARIS INC.

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS)

WEATHER FILE- NEW YORK CITY TMY2

ENERGY TYPE: SITE UNITS:	ELECTRICITY KWH	NATURAL-GAS THERM
CATEGORY OF USE -----		
AREA LIGHTS	1136638.	0.
MISC EQUIPMT	2083012.	0.
SOURCE USES	0.	8573.
SPACE HEAT	1306.	240448.
SPACE COOL	824436.	0.
PUMPS & MISC	62688.	0.
VENT FANS	1594475.	0.
DOMHOT WATER	0.	98333.
EXT LIGHTS	6748.	0.
EXT MISC	204406.	0.
	-----	-----
TOTAL	5913708.	347353.

TOTAL ELECTRICITY	5913708. KWH	7.780 KWH	/SQFT-YR GROSS-AREA	7.780 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	347353. THERM	0.457 THERM	/SQFT-YR GROSS-AREA	0.457 THERM	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.9  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

1 DOE 2.1E

ANYEC: NEW YORK STATE ENERGY CODE  
REPORT- ES-D ENERGY COST SUMMARY

Manhattan West Residential  
SIM: VIDARIS INC.

DOE-2.1E-121 Fri Feb 6 15:53:08 2015EDL RUN 1

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
OSC8-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	5913718. KWH	1427124.	0.2413	YES
OSC3-GAS-TARIFF	NATURAL-GAS	1 2 3 4	347365. THERM	391695.	1.1276	YES
0				=====		
0				1818820.		

ENERGY COST/GROSS BLDG AREA: 2.39  
ENERGY COST/NET BLDG AREA: 2.39