

Appendix C

Daylighting & Views Calculations

Thesis Final Report
Appendix C
Daylighting Views Calculations

<u>Window Type</u>	<u>Glazing Dimensions</u>	<u>Glazing Area</u>	<u>Quantity</u>	<u>Total Area</u>	<u>Geometry</u>	<u>Min. Visible Transmittance</u>	<u>Visible Transmittance</u>	<u>Height Factor</u>	<u>Occupied Floor Area</u>	<u>Daylight Factor (Each)</u>	<u>Daylight Factor (Floor)</u>
Ground Floor											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	55	1,272.70	0.1	0.7	0.85	1.4	8,344	2.59%	5.56%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	55	1,454.75	0.1	0.4	0.85	0.8	8,344	2.96%	
Level 2											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	10,397	2.23%	4.78%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	10,397	2.55%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	19	482.98	0.1	0.4		0.8	2,288		
Level 3											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	10,045	2.31%	4.95%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	10,045	2.64%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	19	482.98	0.1	0.4		0.8	2,992		
Level 4											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	10,045	2.31%	4.95%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	10,045	2.64%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	19	482.98	0.1	0.4		0.8	2,992		
Level 5											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	10,045	2.31%	4.95%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	10,045	2.64%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	19	482.98	0.1	0.4		0.8	2,992		
Level 6											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	10,045	2.31%	4.95%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	10,045	2.64%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	19	482.98	0.1	0.4		0.8	2,992		
Level 7											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	7,905	2.94%	6.29%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	7,905	3.36%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	31	788.02	0.1	0.4		0.8	4,124		
Level 8											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	7,905	2.94%	6.29%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	7,905	3.36%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	31	788.02	0.1	0.4		0.8	4,124		
Level 9											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	7,905	2.94%	6.29%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	7,905	3.36%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	31	788.02	0.1	0.4		0.8	4,124		
Level 10											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	7,905	2.94%	6.29%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	7,905	3.36%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	31	788.02	0.1	0.4		0.8	4,124		
Level 11											
Façade Type 1 (Daylight)	5'-3 1/2" x 4'-4 1/2"	23.14	59	1,365.26	0.1	0.7	0.85	1.4	7,905	2.94%	6.29%
Façade Type 1 (Vision)	5'-3 1/2" x 5'-0"	26.45	59	1,560.55	0.1	0.4	0.85	0.8	7,905	3.36%	
Façade Type 2	4'-11 1/2" x 5'-1 1/2"	25.42	31	788.02	0.1	0.4		0.8	4,124		