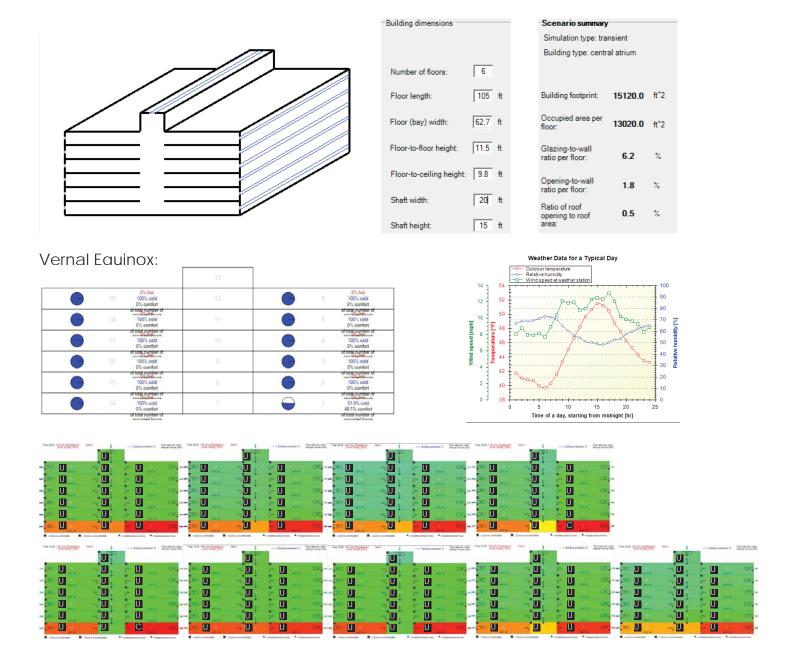
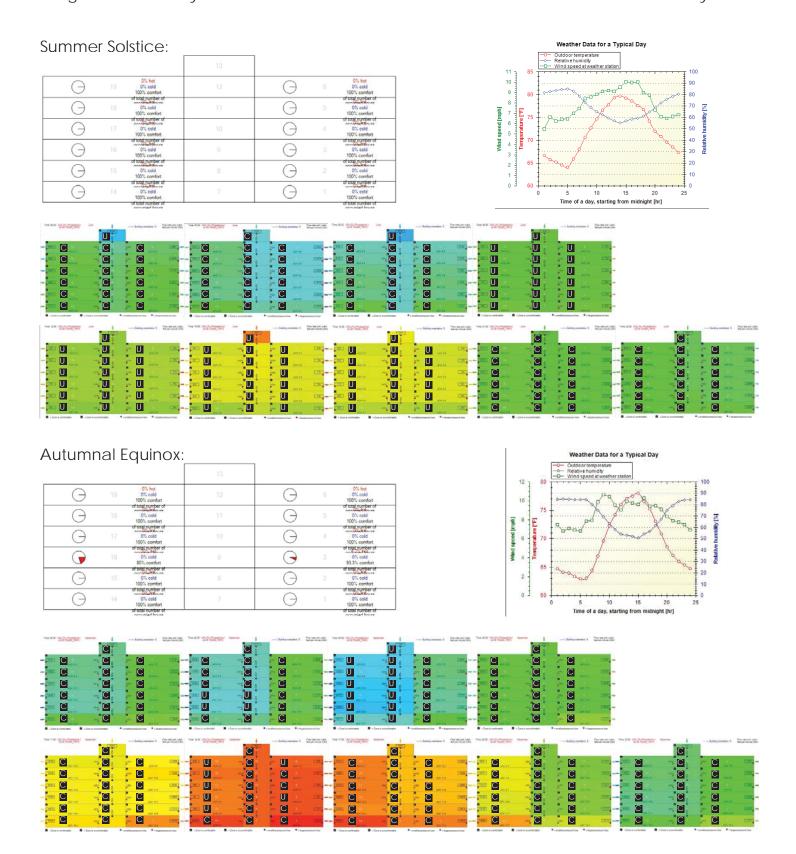
Design 1:

Central Atrium

Use of a Central Atrium running through Meyerson Hall allowed the building to be naturally ventilated in the Summer and early Fall months. The building was 100% comfortable during the Fall months using operable windows and night flushing. During the summer months, the mornings and evenings were comfortable, while the peak afternoon hours were too hot to use natural ventilation.



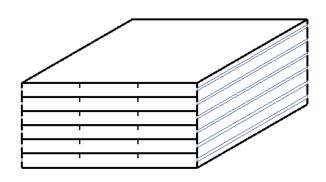
^{***}I had some difficulty with CoolVent giving me weird results with the "Thermal Comfort Analysis" simply saying everything was 100% comfortable when the animation showed otherwise. ***



Design 2:

Cross Ventilation

Use of Cross Ventilation helps to make the space comfortable in the mornings and afternoons, but during the Summer and Fall the heat of the afternoon makes the space too hot. Dividing the volume in to 3 typically meant the that inner mixing chamber trended comfortable.

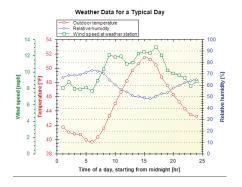


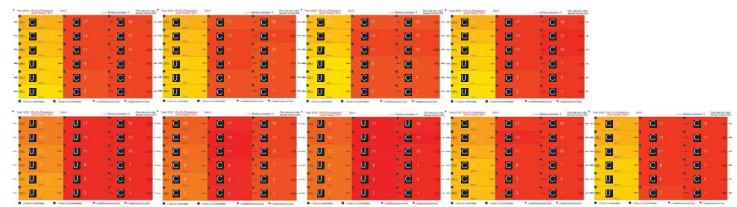
Building dimensions	
Number of sections:	3
Number of floors:	6
Floor length:	105 ft
Section width:	48 ft
Floor-to-floor height:	11.6 ft
Floor-to-ceiling height:	9.7 ft

Scenario summary Simulation type: tra Building type: cross	nsient	
Building footprint:	15120.0	ft^2
Occupied area per floor:	15120.0	ft^2
Glazing-to-wall ratio per floor:	6.2	%
Opening-to-wall ratio per floor:	1.8	%
Ratio of roof opening to roof area:	0.0	%

Vernal Equinox:

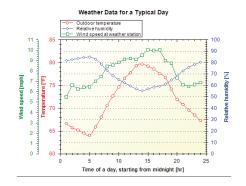
margine of oce	Э	0% cold 93.1% confeet	9% hot % cold \$5,1% \$156	0% hot 0% cold 100% comfort of total
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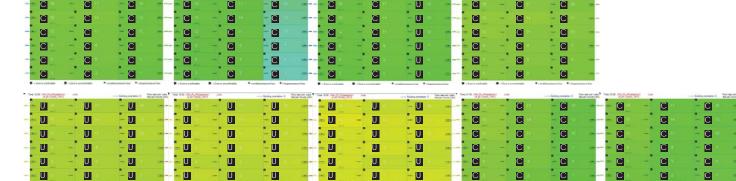




Summer Solstice:

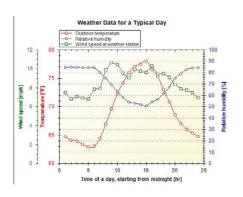
G	18	17.3% hot 0% cold 82.7% careful	•	17	23.1% hot 0% cold 76.9% carefest	•	16	23.1% hot 0% cold 76.9% caredian
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G	12	number of god 0% cold 88.5% certified	G	11	0% cold 76.9% cention	•	10	number of god 0% cold 76.9% carefact
G	9	number of occ 0% cold 82.7% certaint	G	8	0% cold 76.9% certified	•	7	number of occ 0% cold 78.8% constant
G	6	0% cold 82.7% constart	G	5	0% cold 76.9% gentlet	•	4	number of god 0% cold 78.8% constant
G	3	number of occ 0% cold 82.7% constant	G	2	number of occ 0% cold 76.9% carefest	•	1	number of occ 0% cold 80.8% carefast





Autumnal Equinox:

Θ	18	0% hot 0% cold 100% comfort of total	Э	17	0% bot 0% cold 100% comfort of total	Э	16	0% hot 0% cold 100% comfort of total
Θ	15	0% cold 100% comfort of total	Θ	14	0% cold 100% comfort of total	Θ	13	0% cold 100% comfort of total
Θ	12	number of occ 0% cold 100% comfort of total	Θ	11	0% cold 100% comfort of total	Θ	10	0% cold 100% comfort of total
Θ	9	number of occ 0% cold 100% comfort of total	Θ	8	0% cold 100% comfort of total	Θ	7	number of occ 0% cold 100% comfort of total
Θ	6	0% cold 100% comfort of total	Θ	5	0% cold 100% comfort of total	Θ	4	0% cold 100% comfort of total
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