

CASSONE THAIK
PORTFOLIO

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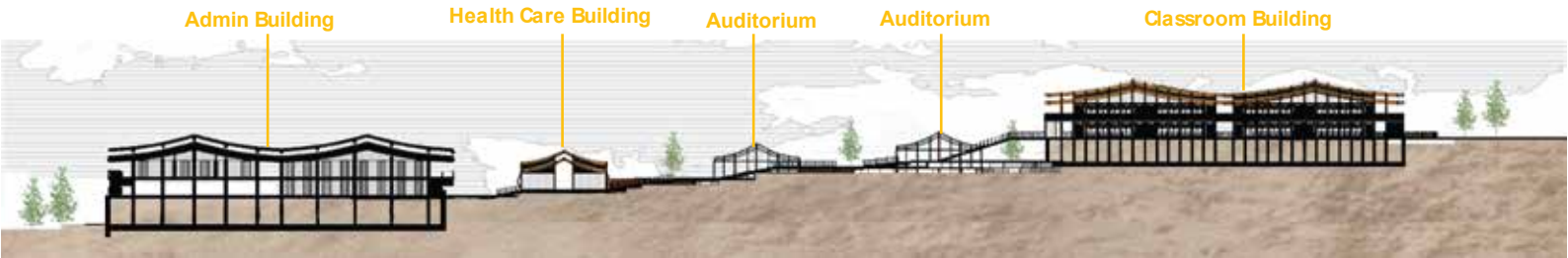
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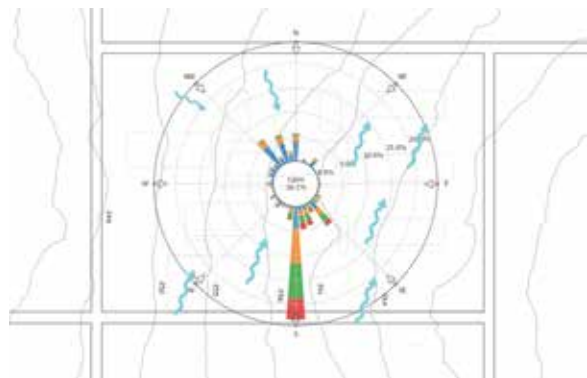
Introduction

This project is a pedagogical faculty that reflects contemporary Burmese vernacular architecture with passive sustainability and adaptation. The concept of culture includes objects, places, buildings, designs, styles, ideas, memories, practices, and traditions that have been adopted from previous generations and translated into a contemporary style that is compatible with the current context. As a result, the social, cultural and economic environment is improved and the village can become more livable, competitive and prosperous. The main design of the program highlights the central courtyard, which serves as a transitional space between the programs. In addition, the hardscape was expanded to include a common work area accessible from each transitional courtyard area. The integration of green spaces in the courtyard makes it a visual connection and coherent with the surrounding context.





Zoning Arrangement



Passive Ventilation Opening



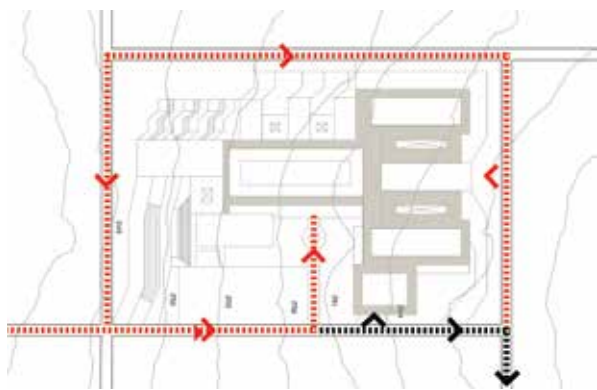
Define Cut-through & Sunk-in



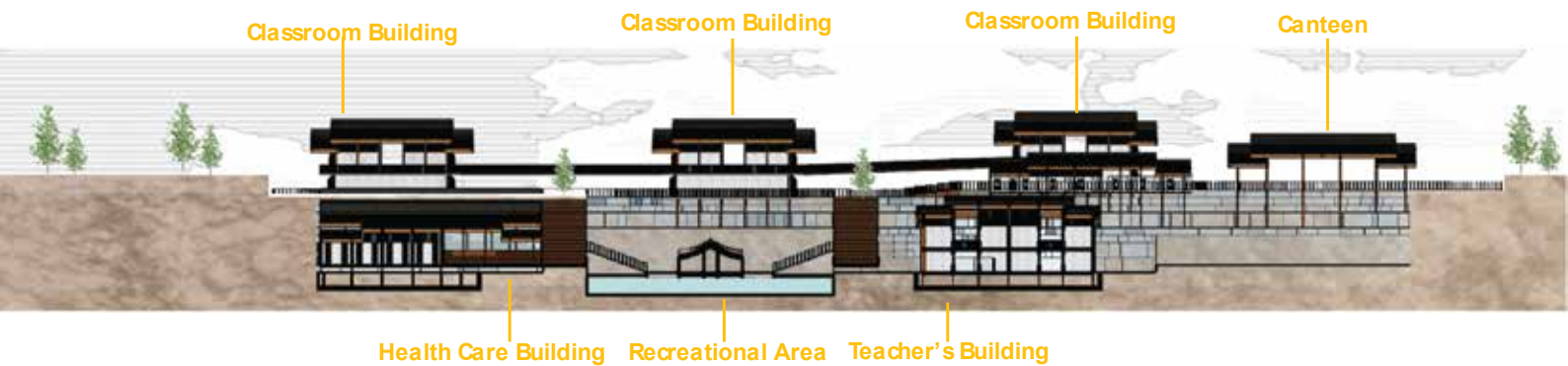
Courtyard Water Collection

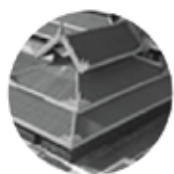
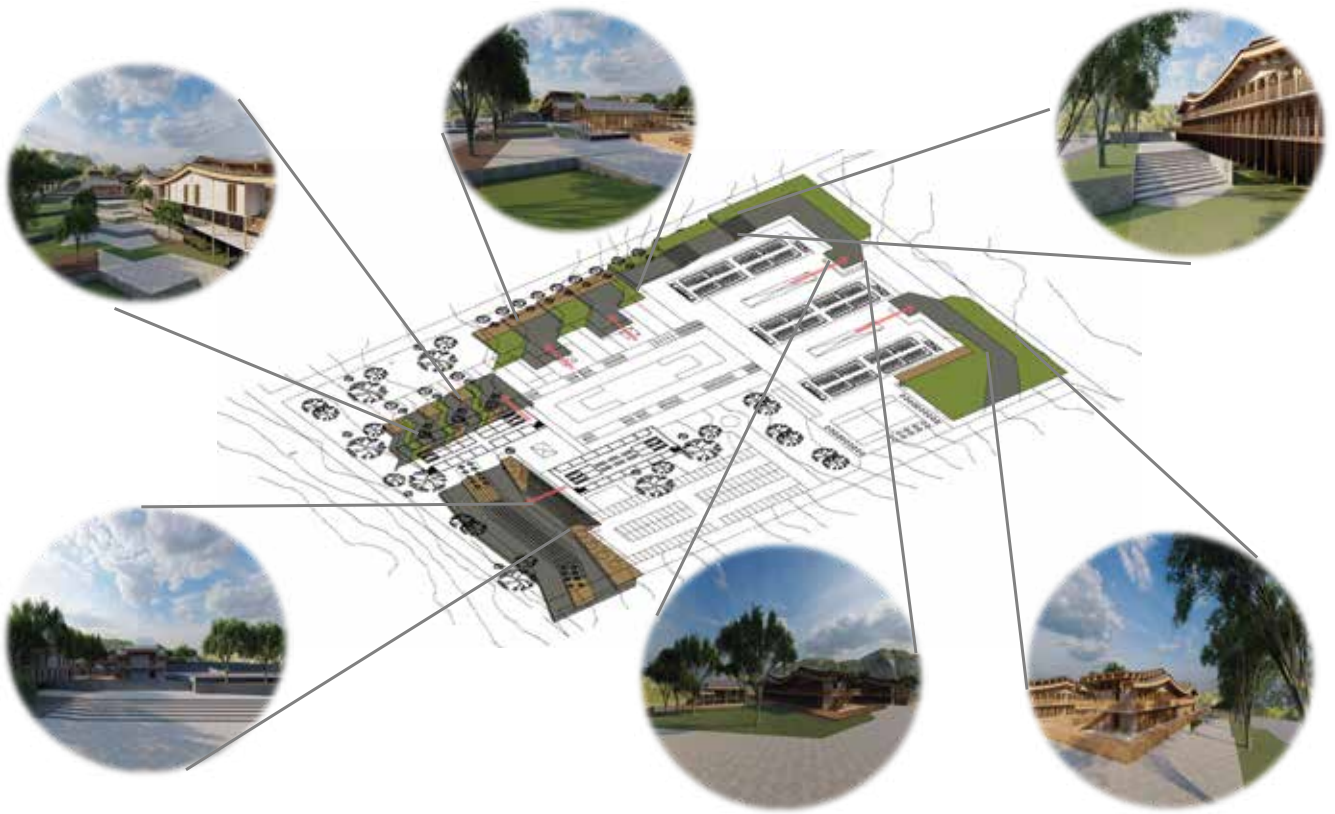
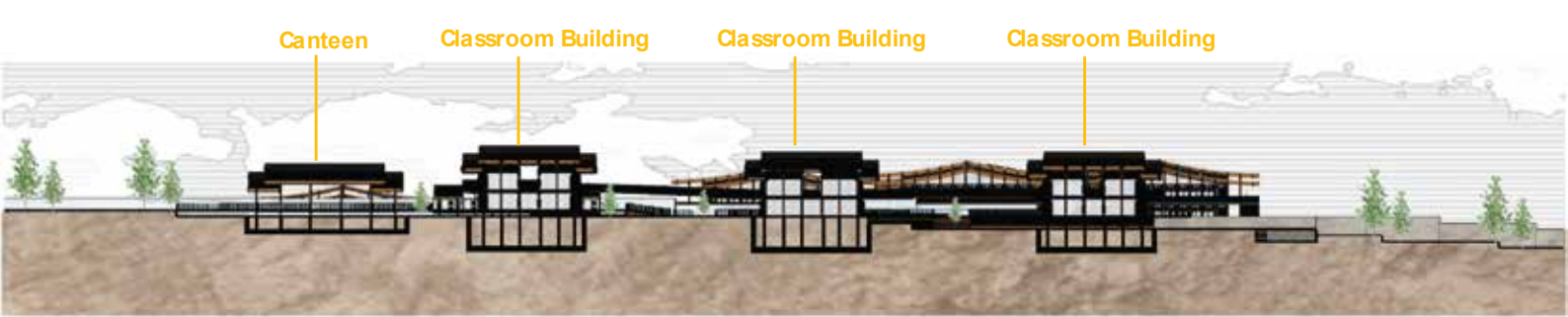


Transitional Courtyard

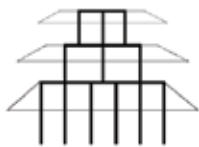


Accessibility





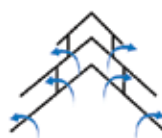
Burmese Layer Roof



Timber Post & Beam Structure



Soft Roof Curvature



Roof Ventilation



Rain Fall Prevention

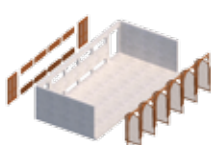


Shade Cantilever

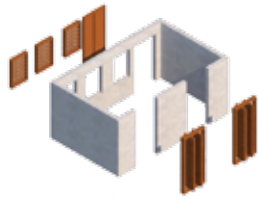
Burmese Roof System

Function of Burmese Roof

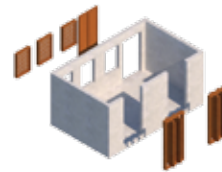




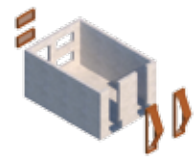
Privacy ***
Ventilation *****



Privacy **
Ventilation *****

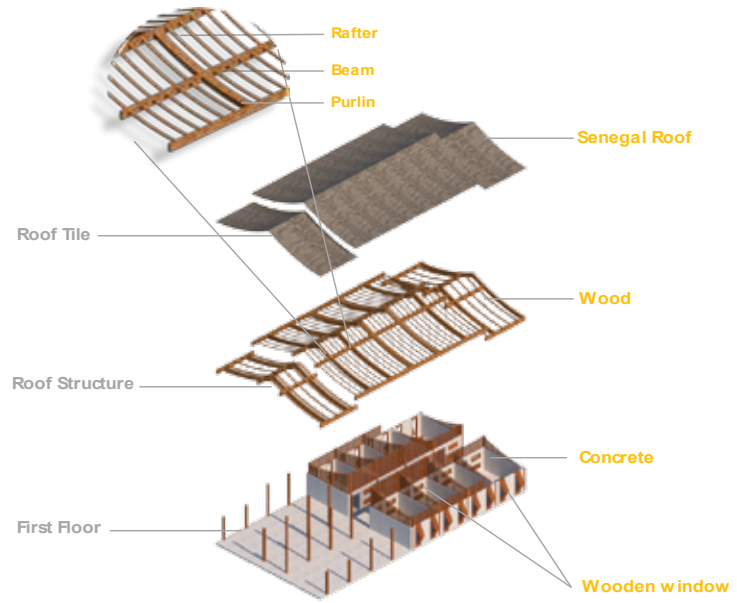


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Ventilation *****

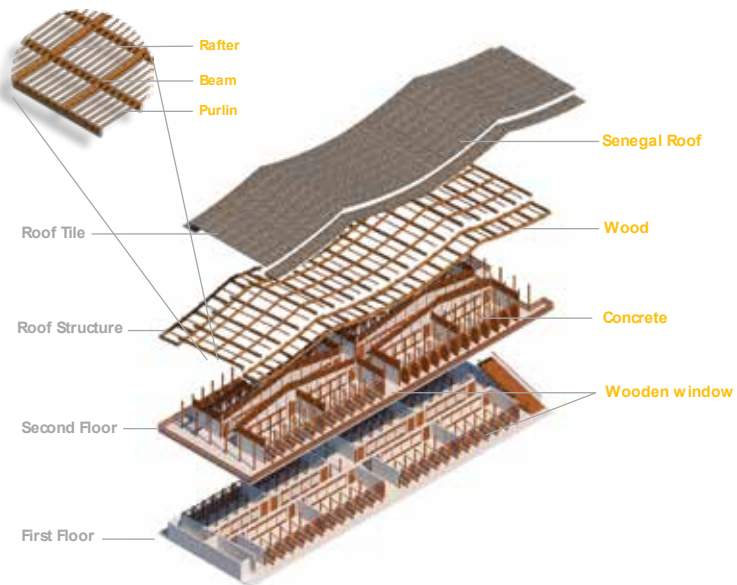


Privacy ***
Ventilation *****



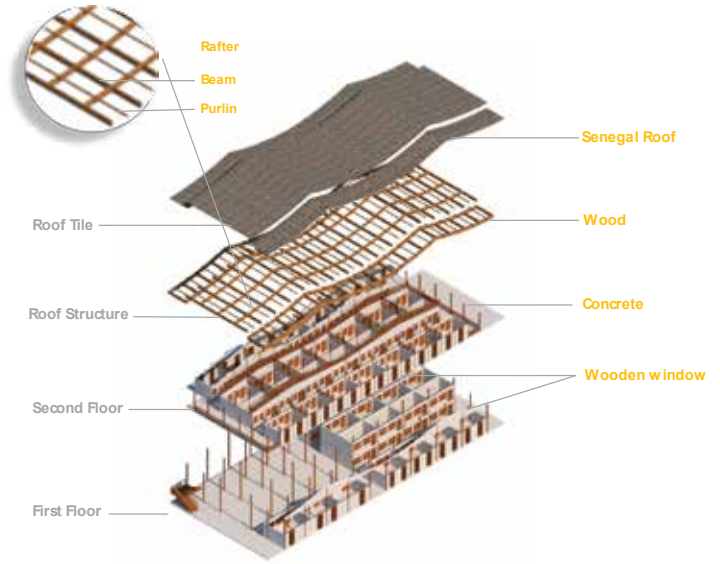


Healthcare Building

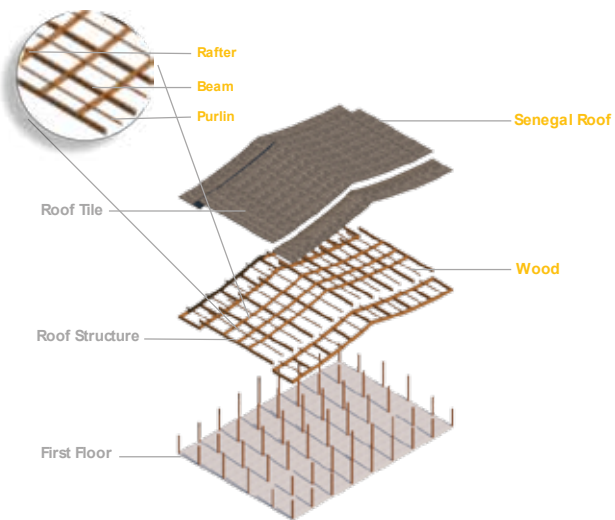


Classroom Building





Admin Building



Canteen Building



02

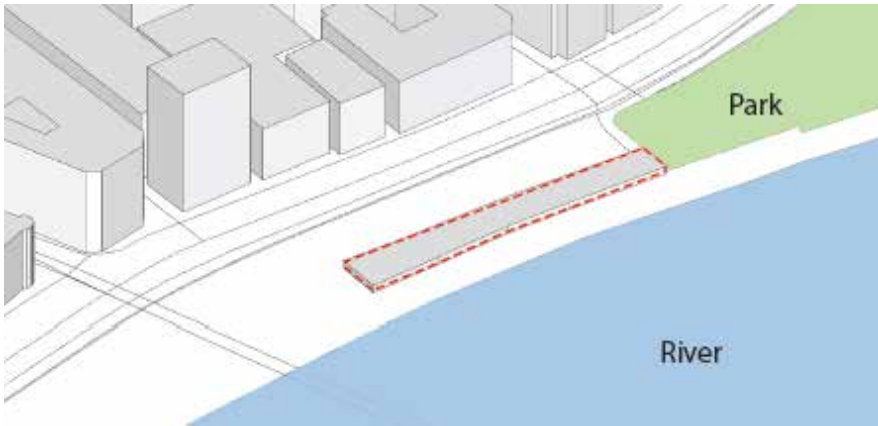
Memorial Bay

Mixed-used
Building

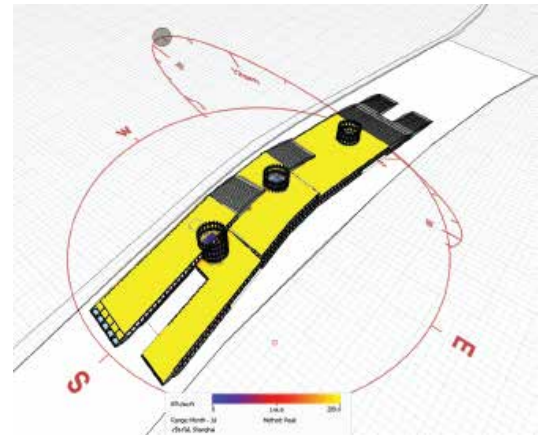
Introduction

The project is located at the river side of the Shanghai. It is between the historical buildings and the bun area which is the riverside. Because I found the opportunity of combining the users of both who like exploration of the history & who like the sight seeing. To create a not only relaxation place but also activity place. By mixed these two functions people can more interact each other. The concept of the planing & form is according to the nature & organic form by bringing in the nature which is the river long the site. The curly wave of the water as well as the direction of the water form the concept. Further in to the macro analysis of the water, it create the roof pattern & facade for the building design. In a water molecule, it composes of one oxygen & two hydrogen & forms a chain compound. In order to repeat these changes it create a pattern. This used the concept of transformation of water into solid which is called crystallization process. This has the various transformation & form a different pattern which will be used in the building & roof.

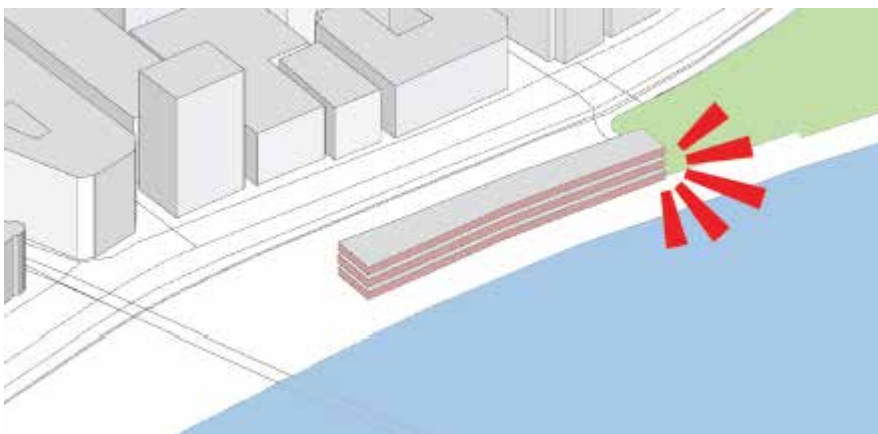




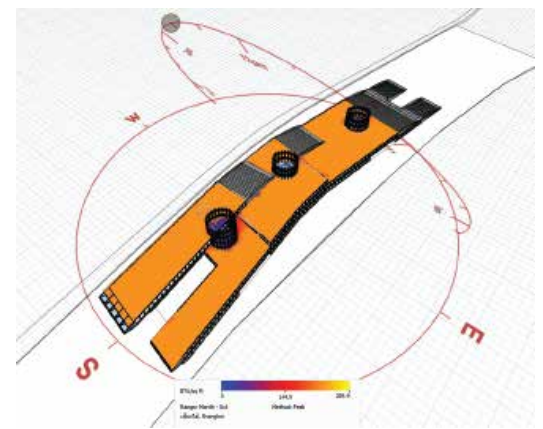
Existing Context



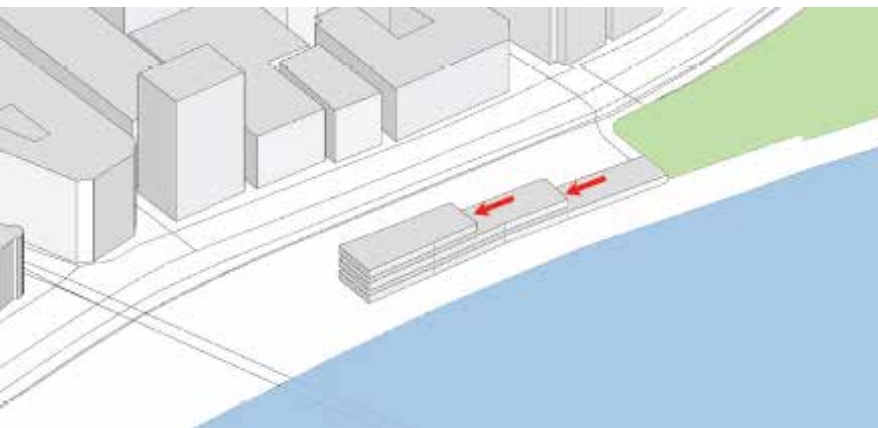
Summer



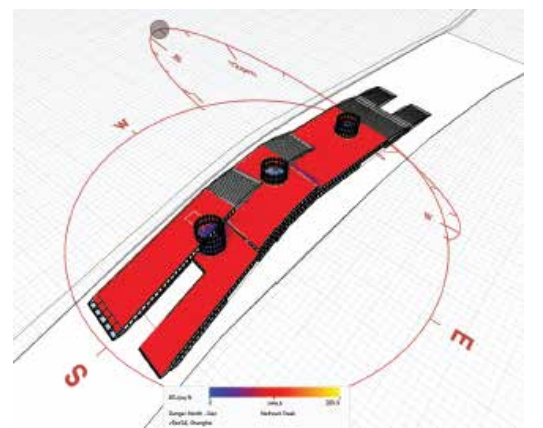
Maximize View



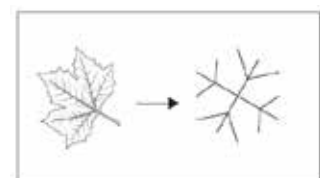
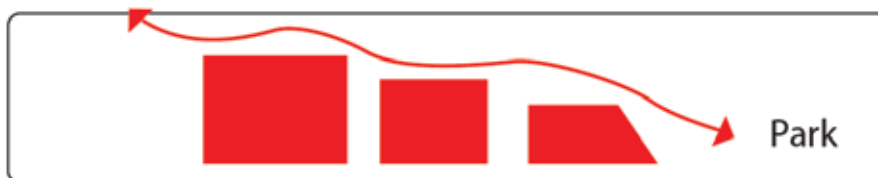
Rainy

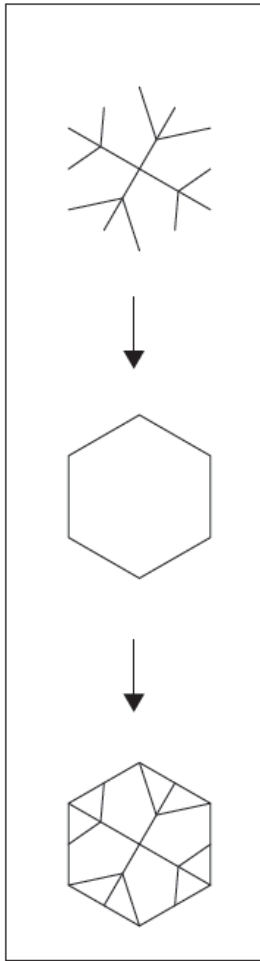


Continuous Flow

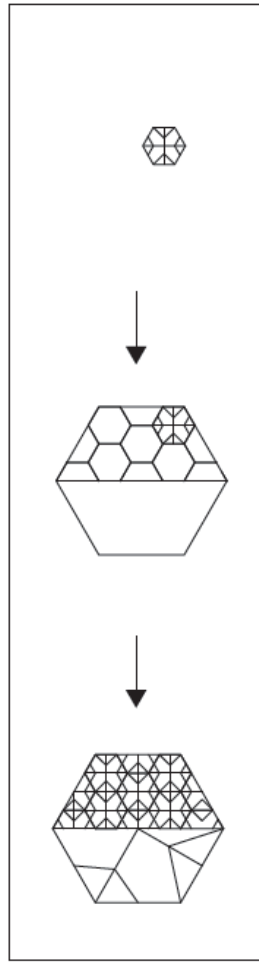


Cold

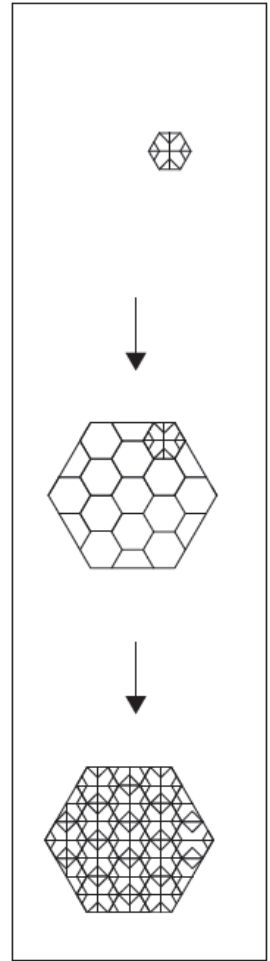




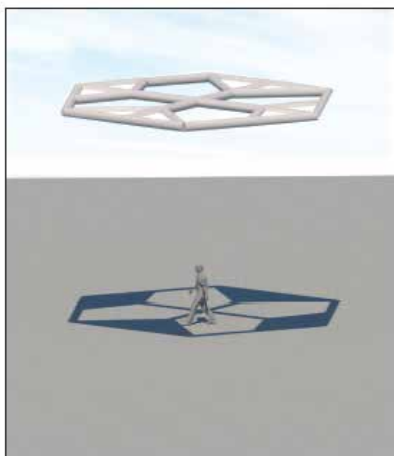
Type 1 Panel



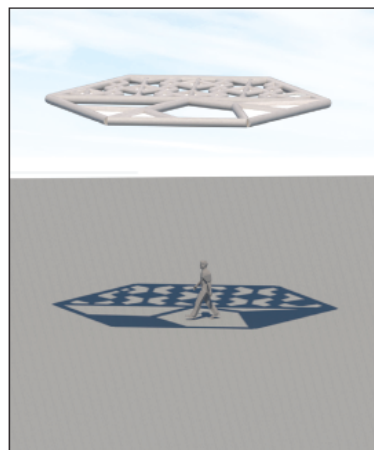
Type 2 Panel



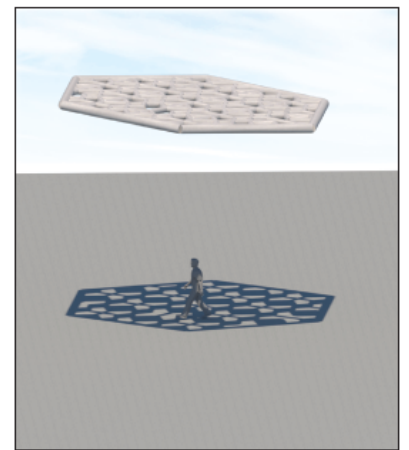
Type 3 Panel



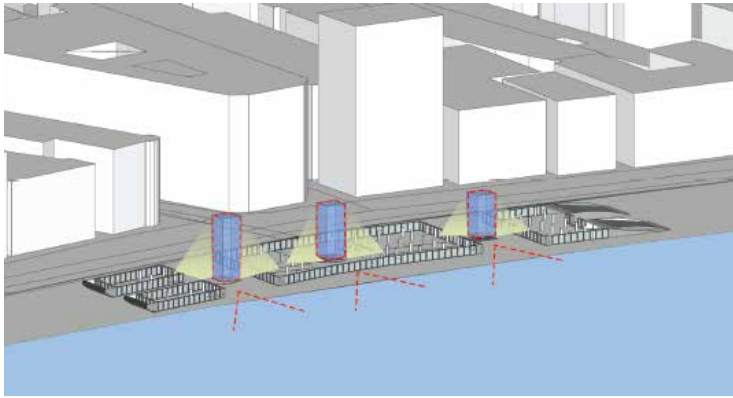
More Light & Less Shadow



Half Light & More Shadow



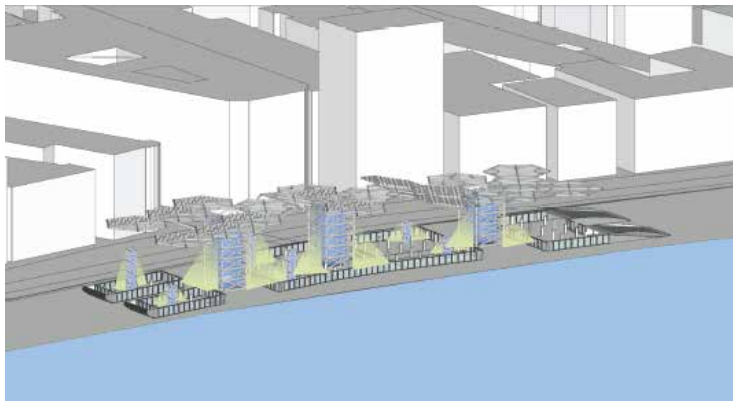
Less Light & More & More Shadow



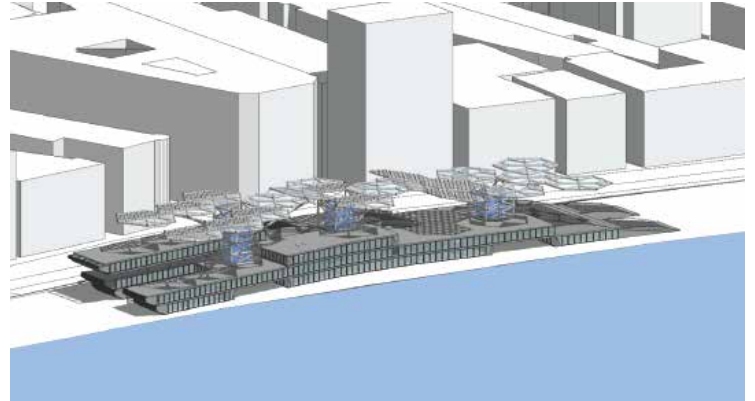
3 Main Cores



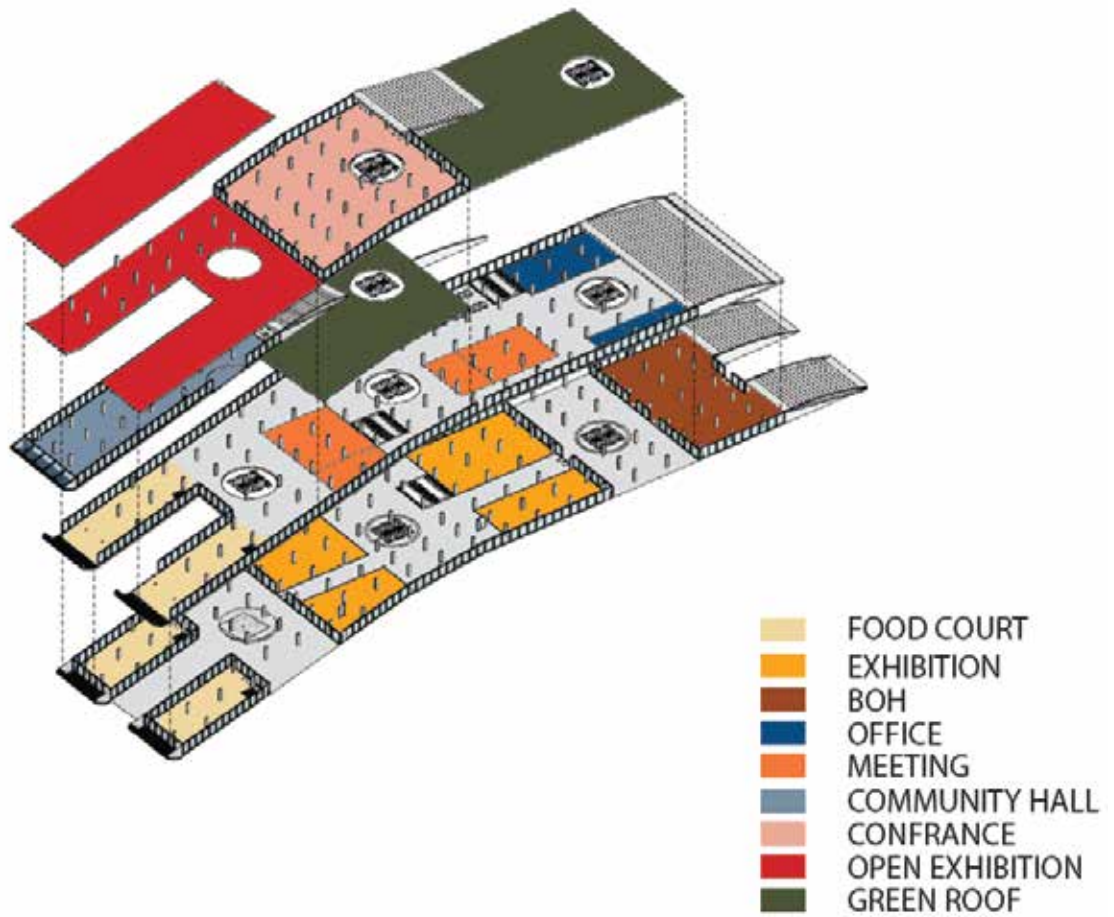
Seperate Cores for Light

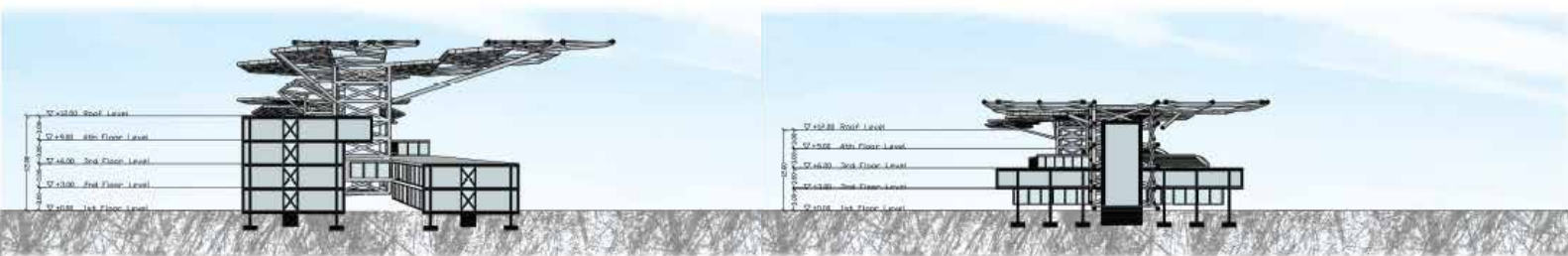


Main Cores with Roofs

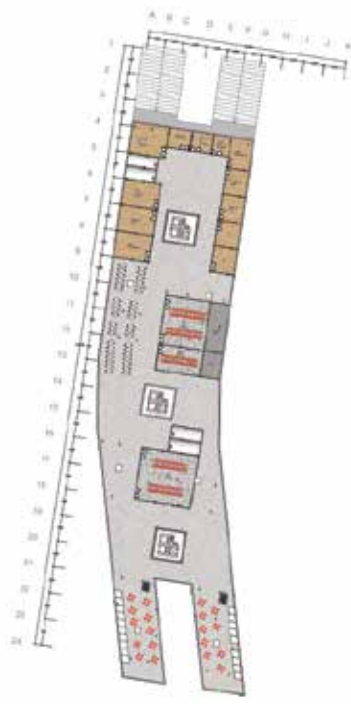


Complete Cores

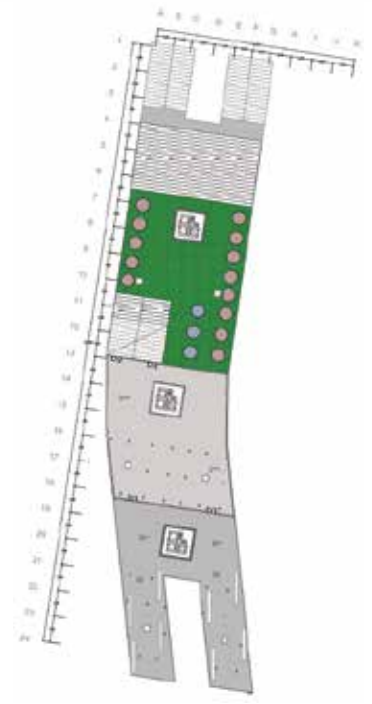




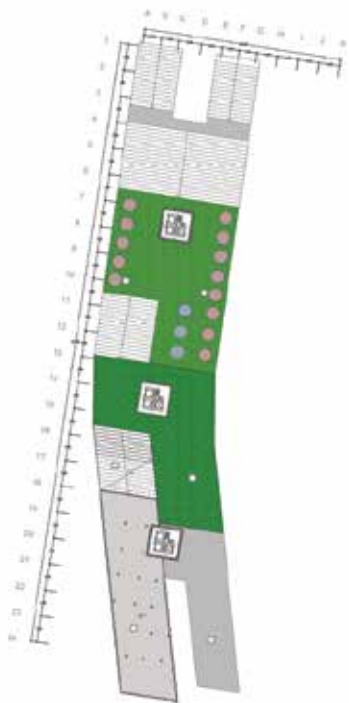
1st Floor Plan



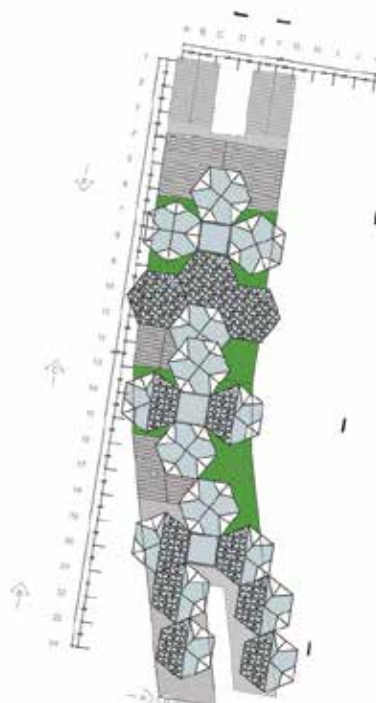
2nd Floor Plan



3rd Floor Plan

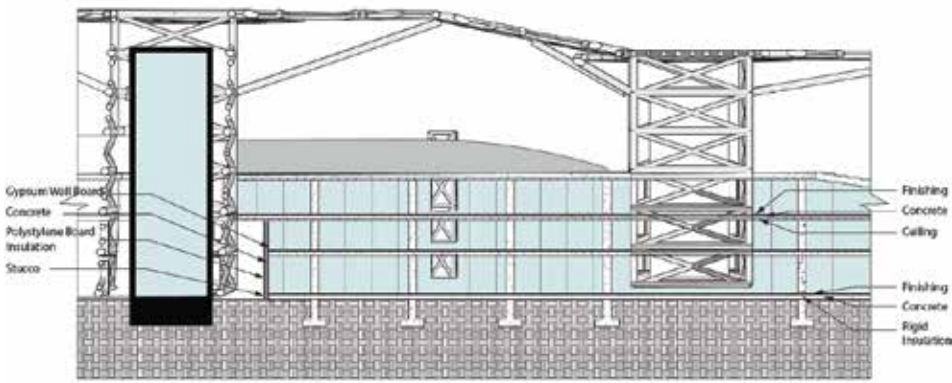


4th Floor Plan



Roof Plan



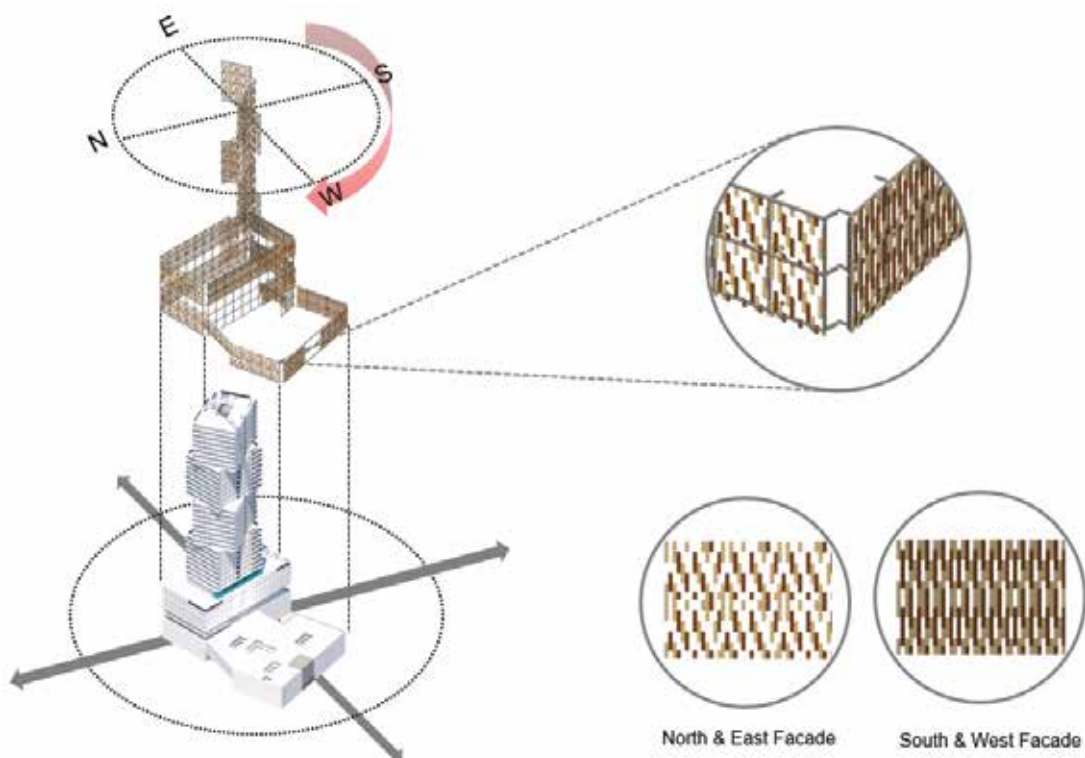


03 Tranquil Tower

Highrise
Building

Introduction

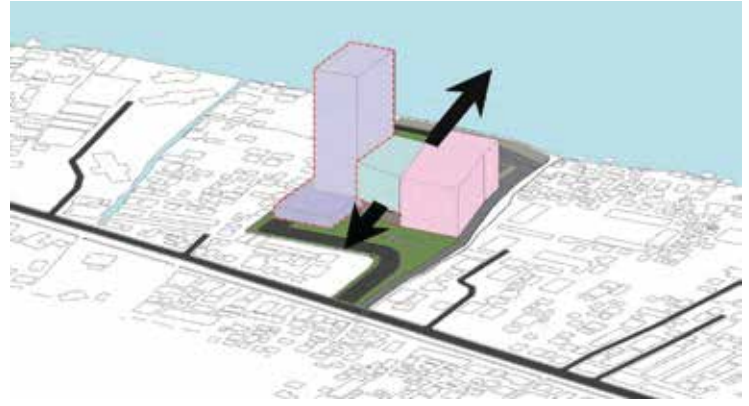
The project is located along the riverside. It is a highrise mixed-used building consists of hotel, commercial, and healthcare zones. Concept is connecting between the river and the nature of the surrounding. The void space of the building become the visual linkage to the river. The highrise hotel part is design by twist & turning of the building mass to have the most thermal comfort inside the building. In addition there is a facade layer covering the outer layer of the building. It is strips of wooden facade which install different gaps in between according to the facing of the building. This wood material is natural insulation for heat, natural material, recyclable, and renewable.





Create Mass

Hotel
 Healthcare
 Commercial



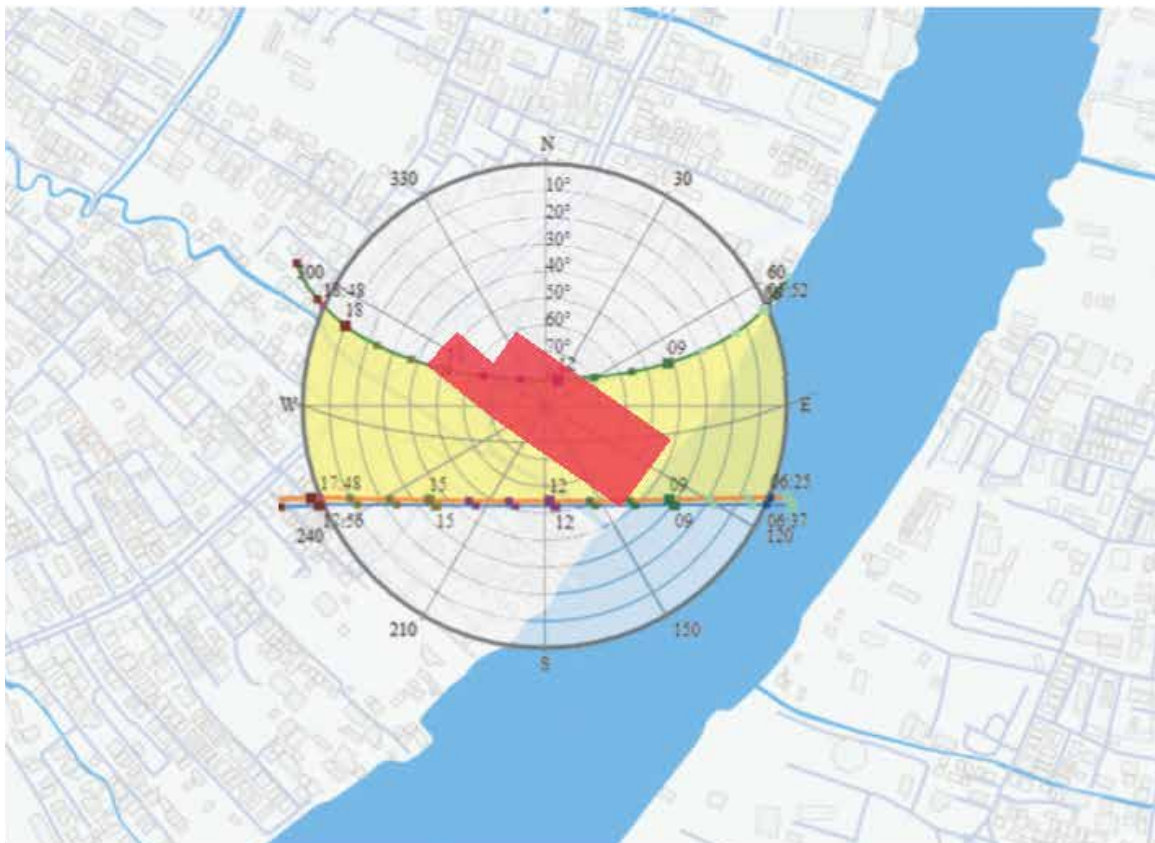
Mass Arrangement & Create Connection



Void Become Visual Linkage with River



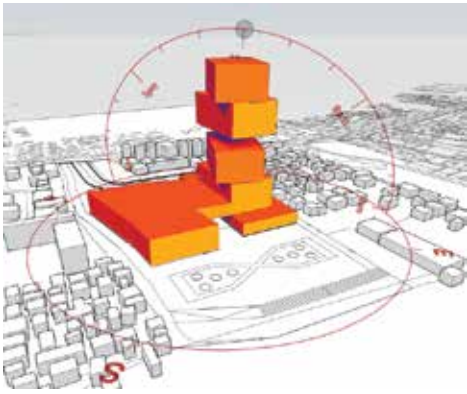
Greening Let the Nature In



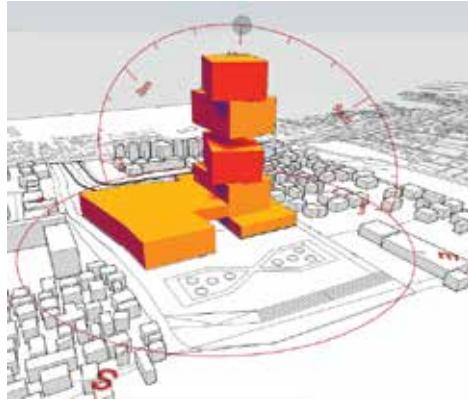
Time	Summer 21st June	
	Altitude	Azimuth
8:00 AM	28	71
9:00 AM	42	71
10:00 AM	56	68
11:00 AM	69	60
12:00 PM	79	25
1:00 PM	76	317
2:00 PM	64	296
3:00 PM	51	290
4:00 PM	37	289
5:00 PM	24	290

Time	Equinox 21st March	
	Altitude	Azimuth
8:00 AM	23	96
9:00 AM	38	100
10:00 AM	52	108
11:00 AM	65	121
12:00 PM	75	155
1:00 PM	74	214
2:00 PM	63	242
3:00 PM	49	254
4:00 PM	35	261
5:00 PM	21	265

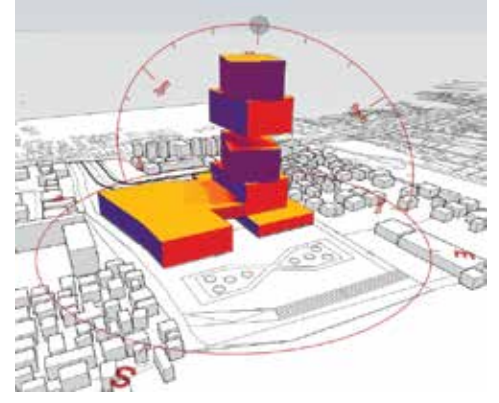
Time	Cold 21st Dec	
	Altitude	Azimuth
8:00 AM	17	120
9:00 AM	29	127
10:00 AM	40	138
11:00 AM	49	153
12:00 PM	53	174
1:00 PM	51	196
2:00 PM	45	215
3:00 PM	35	228
4:00 PM	24	236
5:00 PM	11	242



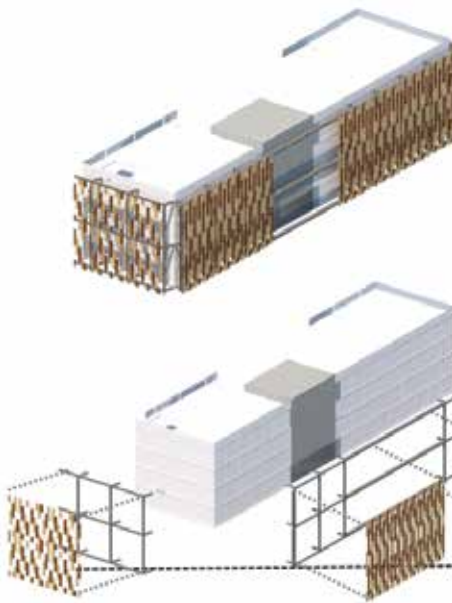
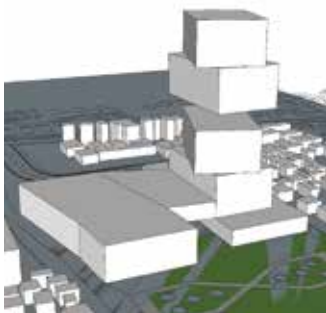
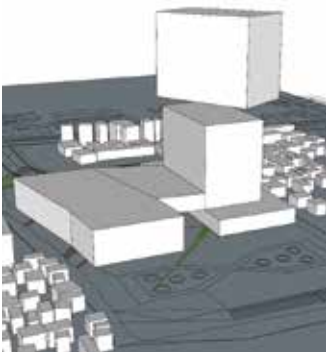
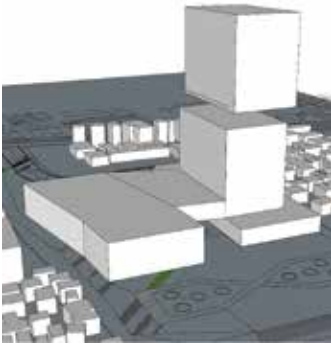
Summer



Equinox



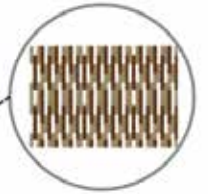
Cold



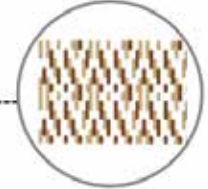
Wooden Stripes as Panels

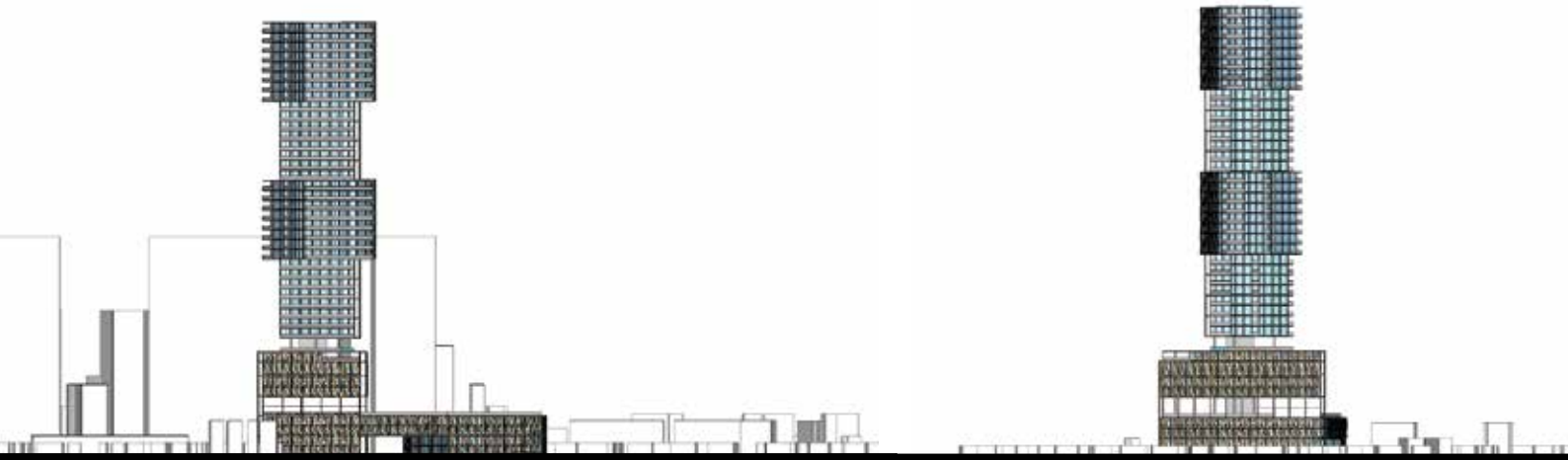
Wood material is a natural insulation for heat, natural material, recyclable, Renewable.

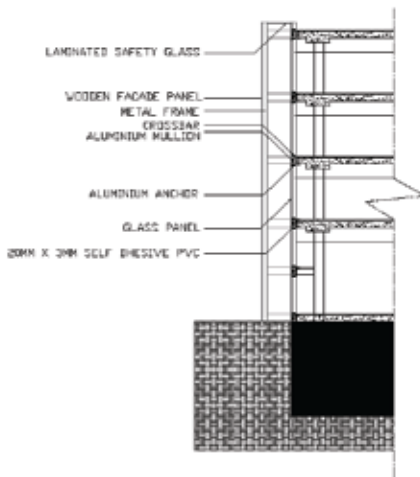
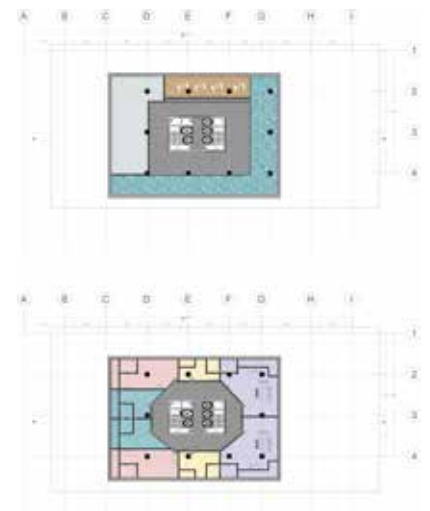
Detail Panel

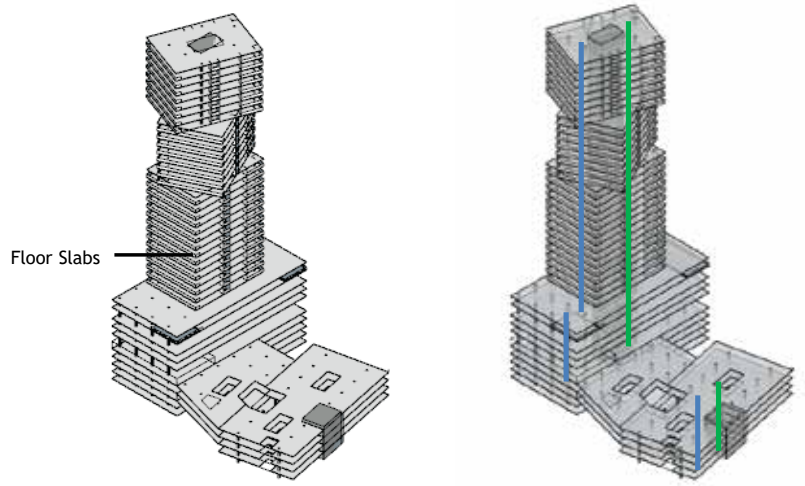
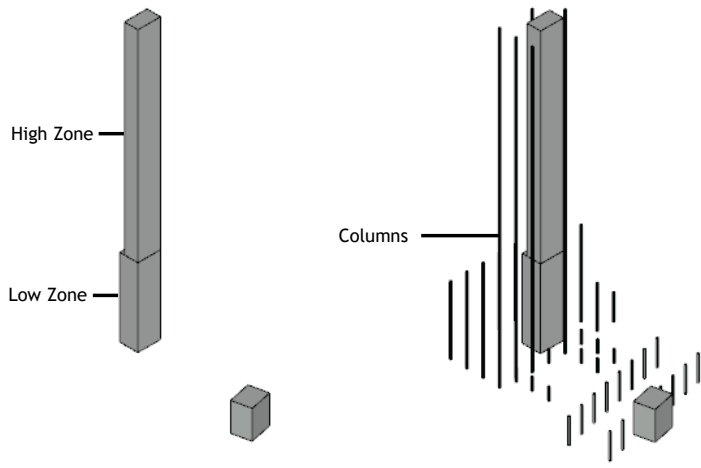


Gap Panel









■ HVAC
■ Water Supply



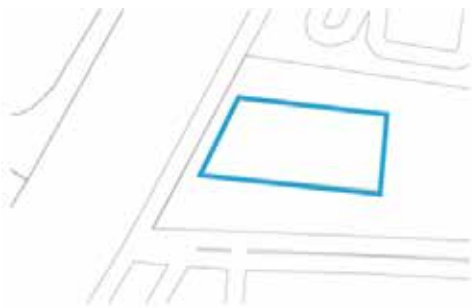
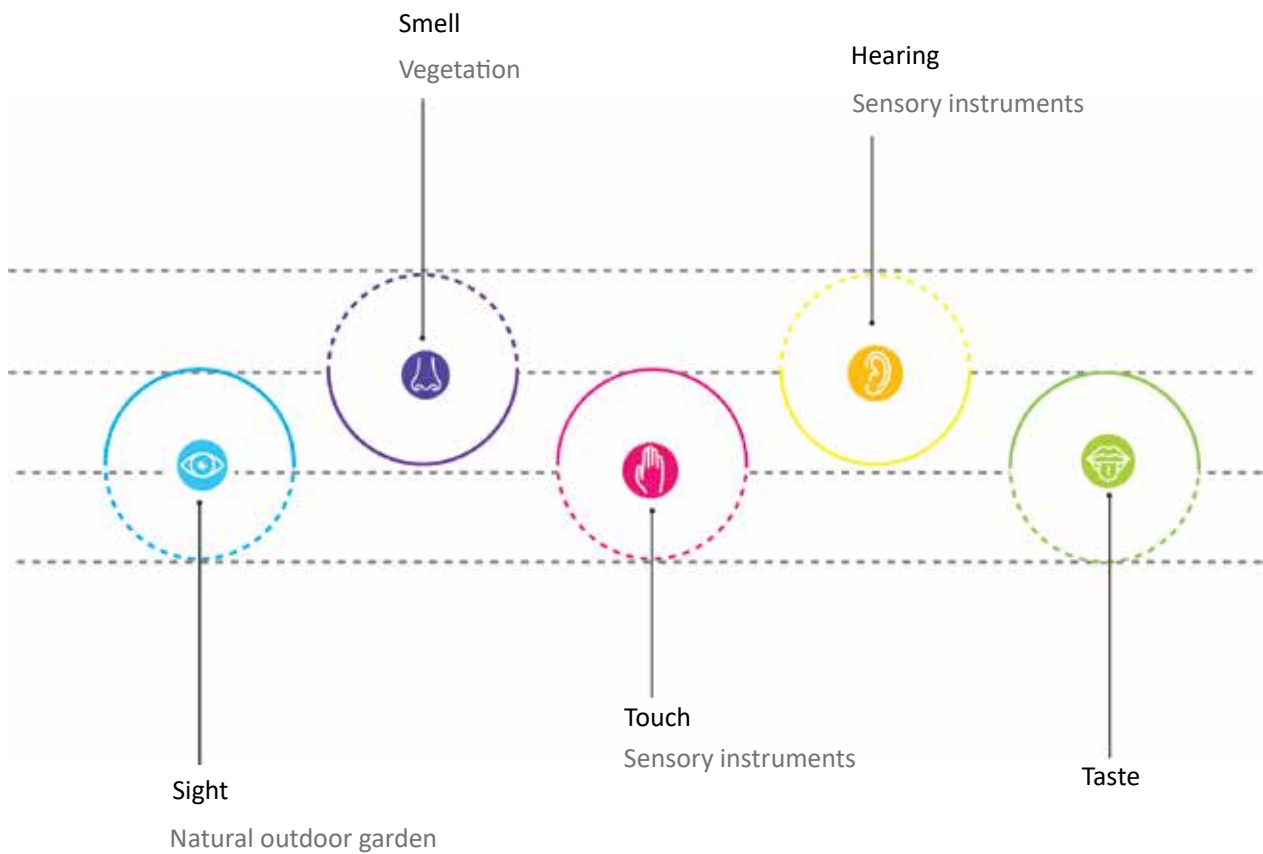
04 Nusery School

Educational Building

Introduction

This is a project empathy based on the children. In term of their willingness of doing freely and their impression of emotions. Concept of this nursery school is based of the five senses which will connected with the playground. The five senses are sight, smell, touch, hearing, and taste. Playground will have these senses play instruments integration which will be called sensory playground. The concept development of planning is based on the green focal courtyard which represents the unity. From that the sensory playground is divided into lower half and upper half. Due to the climate condition the children can be play on the ground level when is very hot and in the evening time children can play on the upper level of the playground. For the accessibility there is both ramp and stair to roam around the building. There is loop runway on the upper level for the continuity.

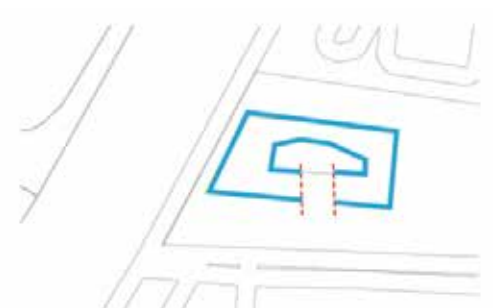




Create Mass



Add Green Courtyard



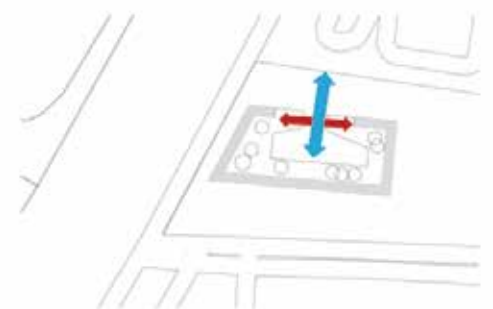
Cut to Create One-way Access



Create Loop Runway for Continuity



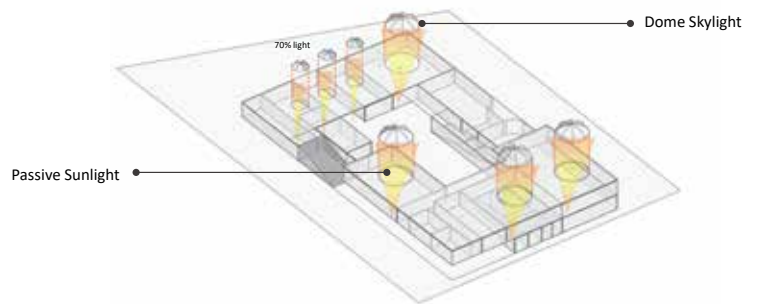
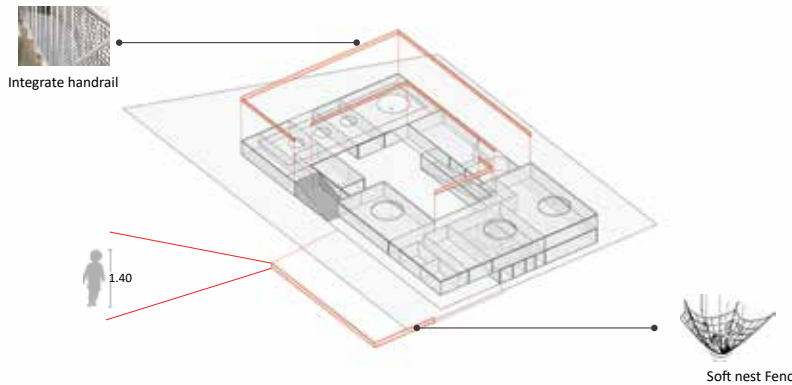
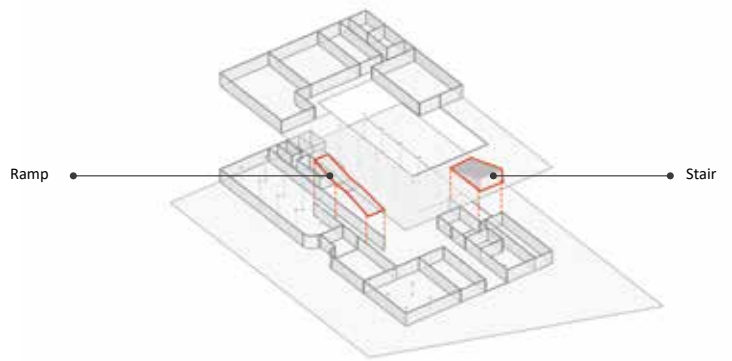
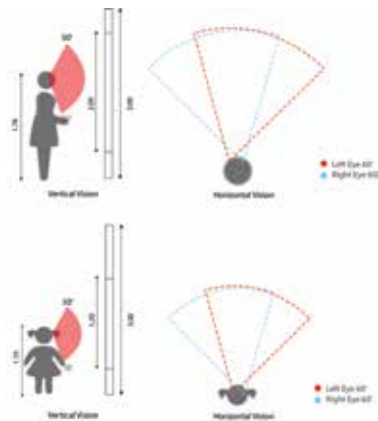
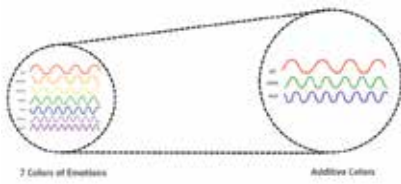
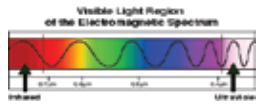
Arrange Playground Through Series of Sensory

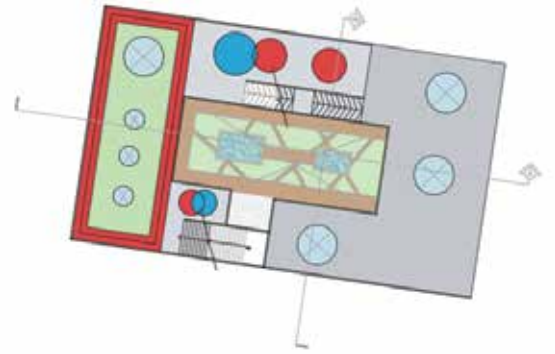
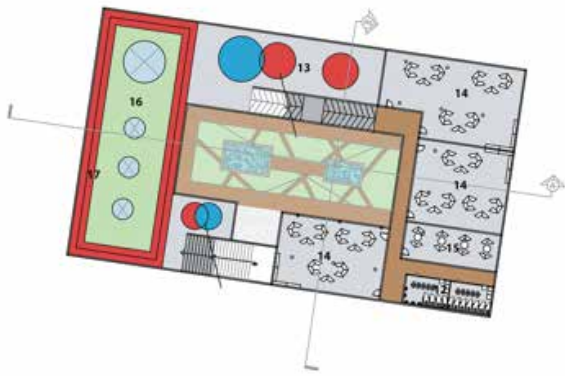


Create Visual Axis

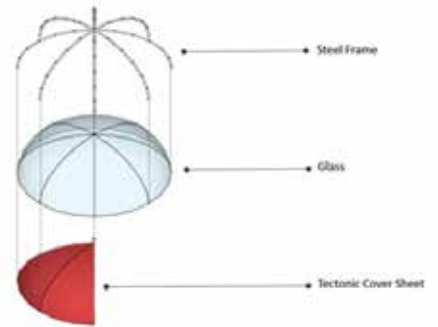
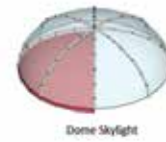
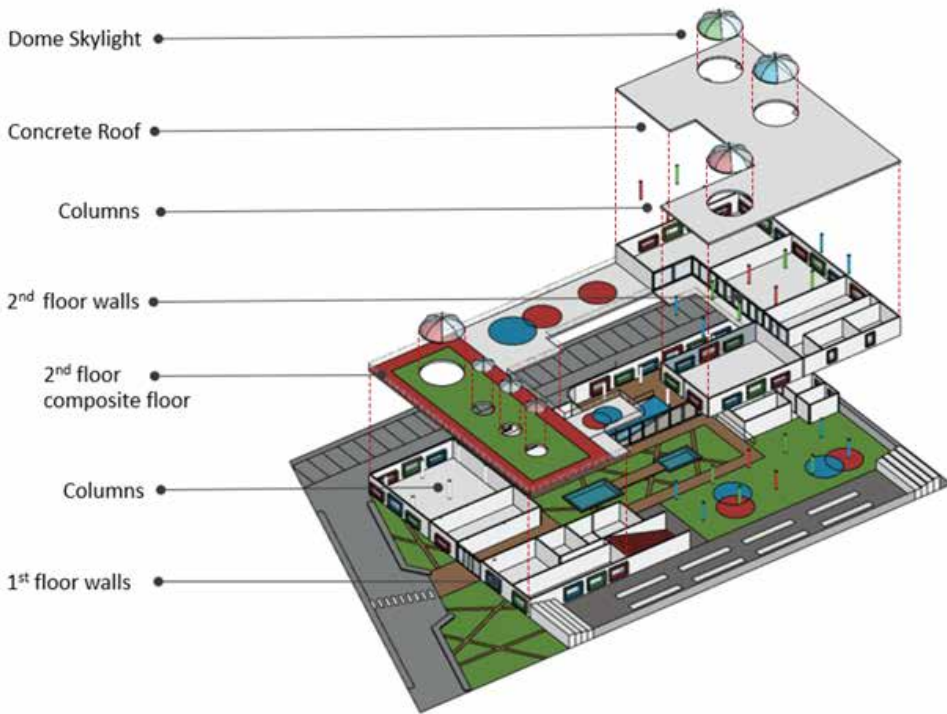


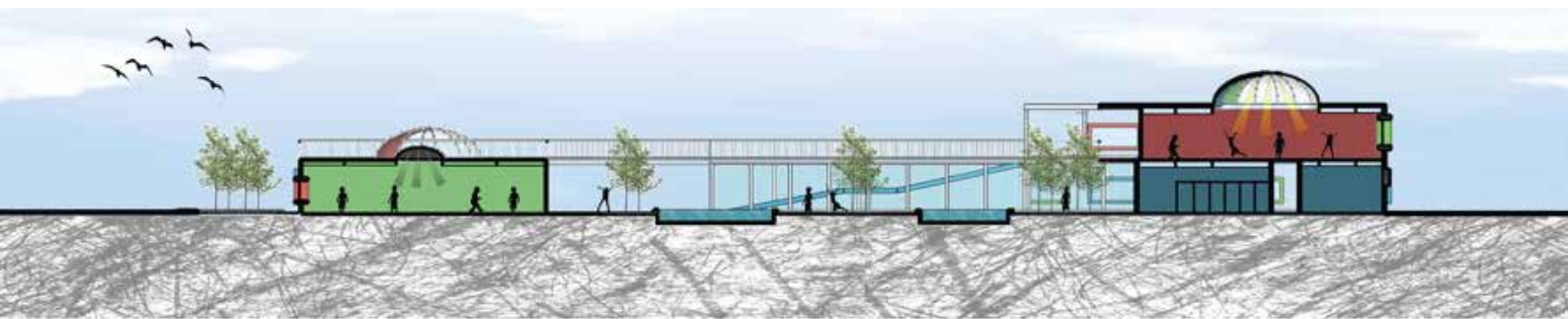
Characteristics Age 2-4

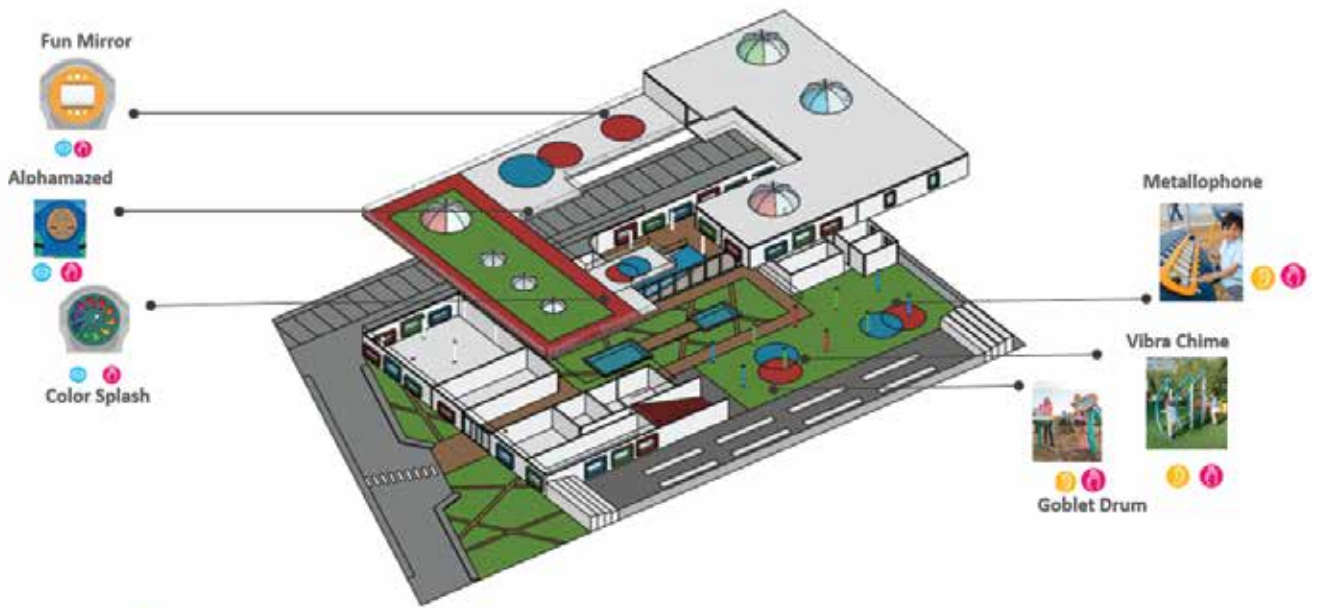
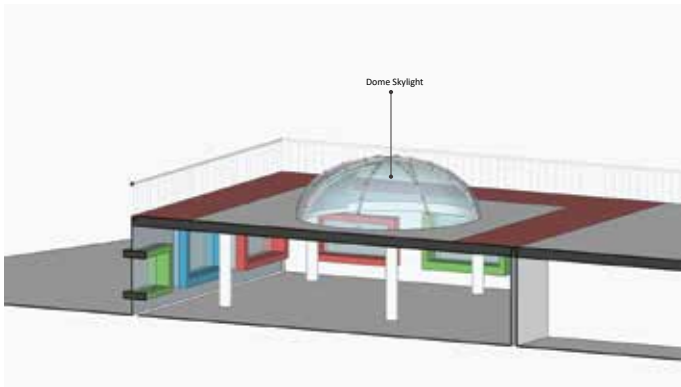




- 14. Nursery Classroom
- 15. Teacher's Rest Room
- 16. Green Roof
- 17. Looped Runway







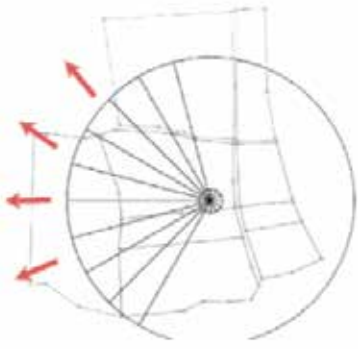
05 Sense of Lana

Hotel & Cultural Center

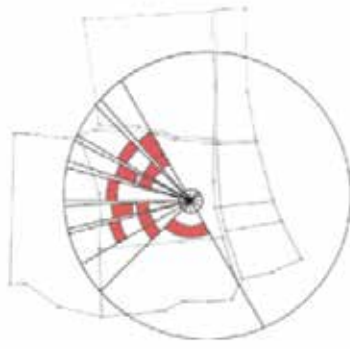
Introduction

This project is Lanna Hotel & Cultural Center. Lanna is rich in culture & traditions such as pottery, traditional dances, tradition umbrella. It has unique wood curving which integrated in the building design. It is not only known for rich traditions but also have their essence in houses & building. Most of the buildings are house, residential buildings, and temples. The foreign and immigrants used the essence of Lanna to construct the buildings of residences and commercial buildings. The site has the background of mountain site in the North & West side, the main concern is influence with the view for the hotel. There are four design goals. They are 1) to create the best view for the hotel buildings 2)to have clear public & private spaces 3)to create systemic order according to privacy concern 4)lift up the building by the column to have ground open space.

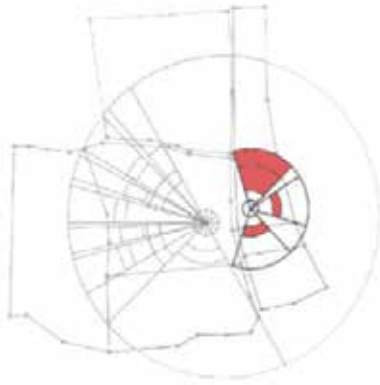




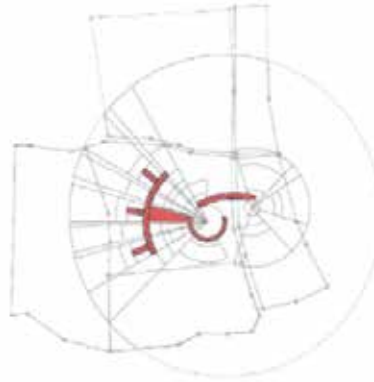
View Starts from Focal Point



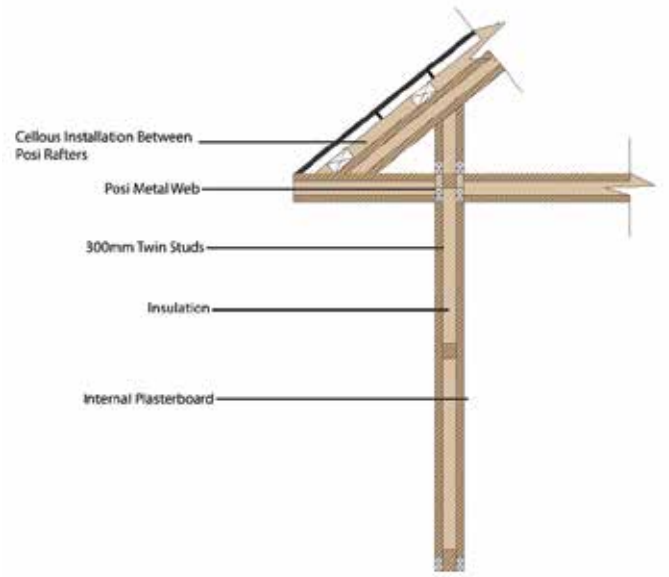
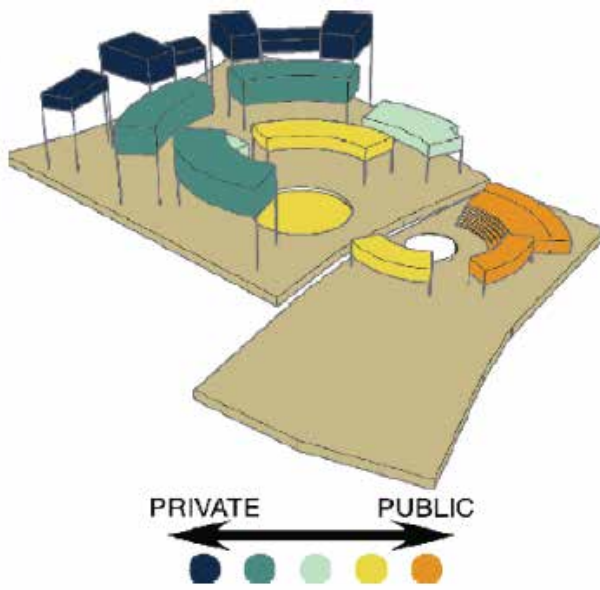
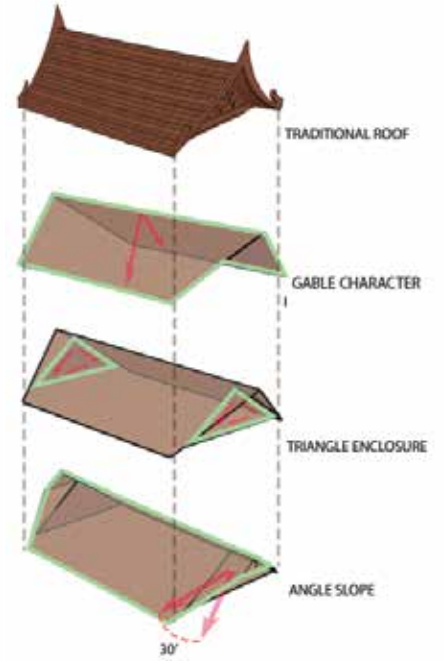
Program Arrangement

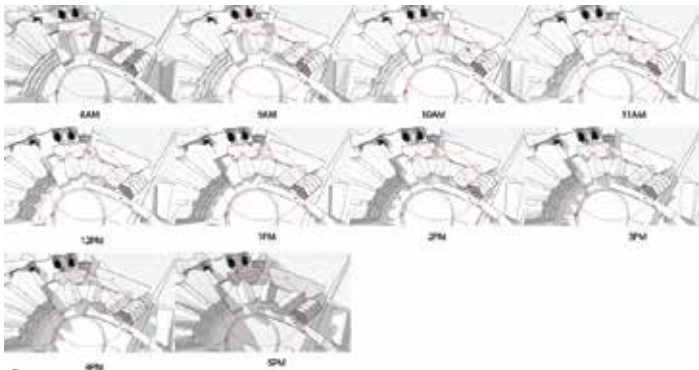


Public Zone Arrangement

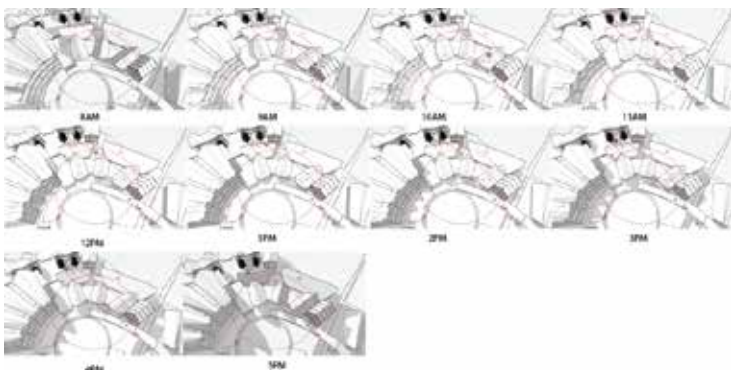


Circulation

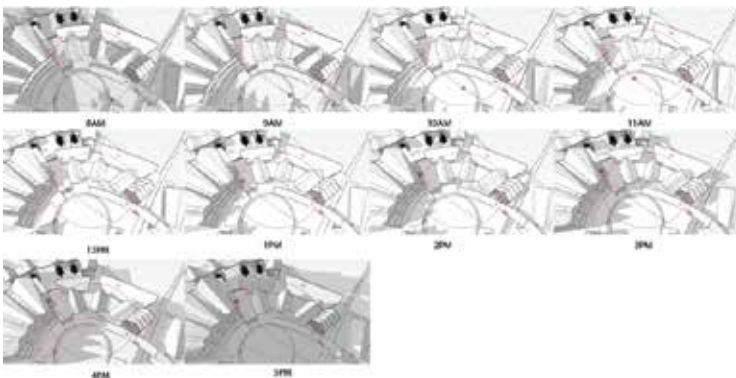




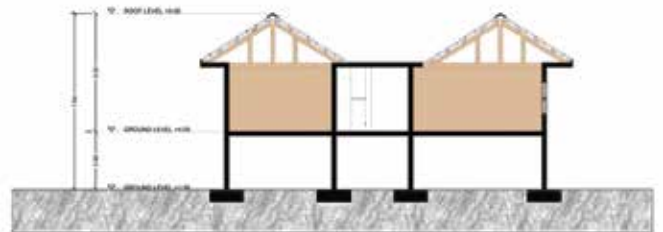
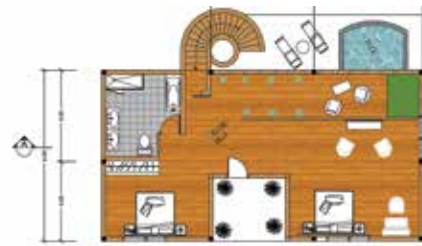
Summer



Equinox

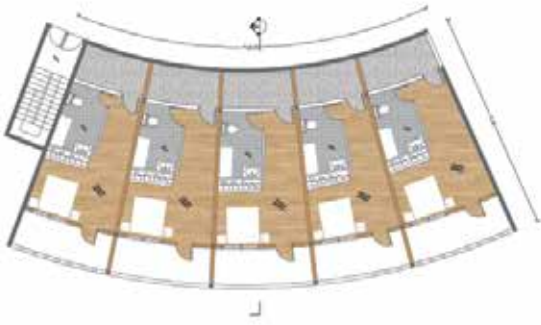


Cold



Deluxe Villa





Standard Room Building



Suit Room Building

