

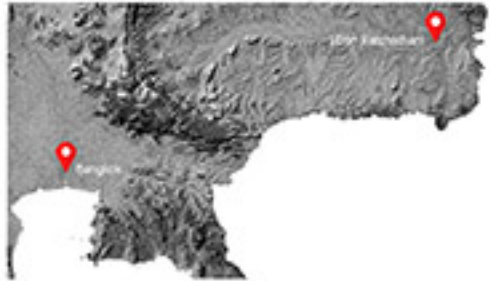
UBON RESILIENCE #SAVEUBON

The urban lifestyle has changed from the past where most people live their lives in harmony with the river. For Thai people, this portrays the image of how people live and use water in the previous centuries and how river water benefits urban population which is very different to current days. This is due to the development of human growth which led to the transition of lifestyle from the past. It can also be seen that people are pursuing careers in a more diverse field of professions. However, technology associated with human's ways of living is also the factor that led to the disappearance of the river that used to be the core of nourishment. Nowadays, man-made constructions are constructed according to the demand of each individual, regardless of the "nature" or "ecology" of water. This is another factor that causes flooding problems of many provinces in Thailand because of the lack of information on the area. The aforementioned issues is the starting point of my own interest in creating an architectural piece that expresses the understanding of natural space as an example of coexistence that can be sustainable in the future.

SITE

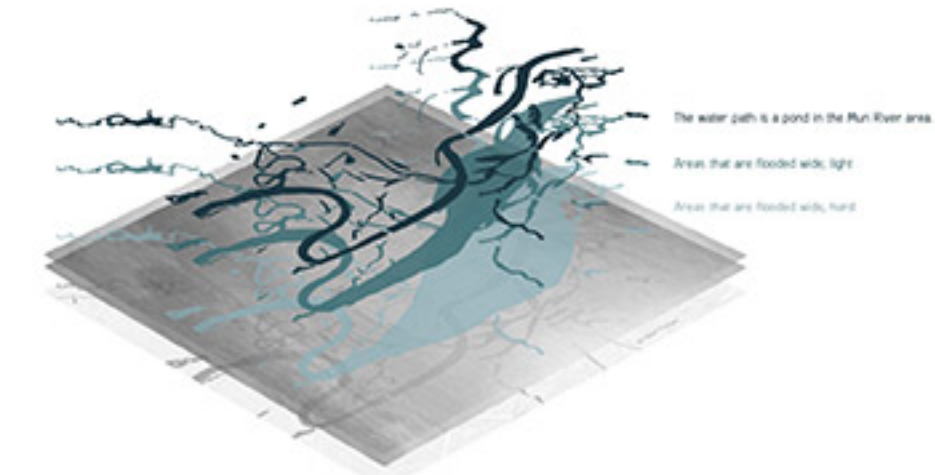
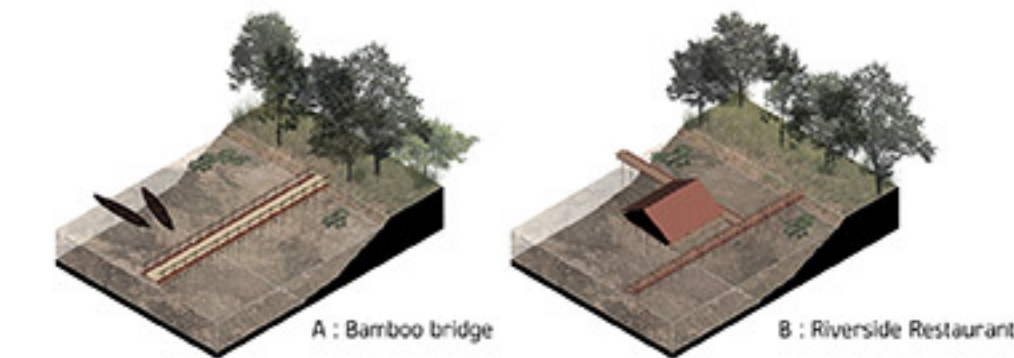


Thailand is a country that often has a problem of floods, due to the sloping geographical characteristics, combined with the large amount of water, as well as the forest and nature that is reducing immensely. This transition is causing the water to easily flow into the flooded forest within each area of Thailand.



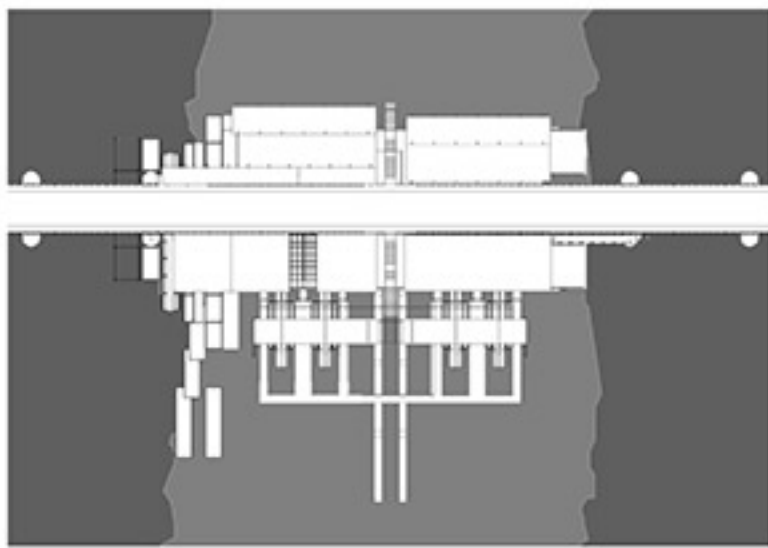
Ubon Ratchathani City, where the Mun River flows through the center of the city, often has problems with water resources. Every year, the area is affected by the floods in the rainy season, since this area is the center of the northeastern water region, including the Mekong River, Chi, Mun River, and 7 important small streams.

In addition, the current development often leads to the narrowing of the river. The flow of water is obstructed due to the destruction of water flow paths that led to continued waterlogged area.



The northeast region has two major river valleys, known as the Chi and Mun river valleys. The upstream of the Chi river is located in Chaiyaphum province, and the upstream of the Mun river valley is in Nakhon Ratchasima province. Both river valleys will flow to meet at Ubon Ratchathani Province and flow into the Mekong River.

LAYOUT



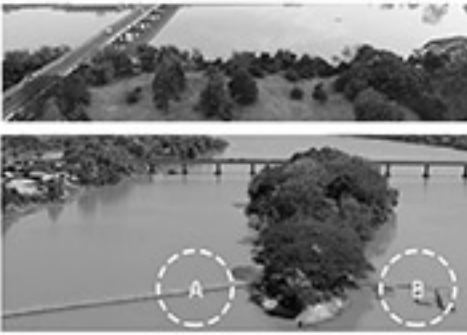
SAWAT ISLAND, WAT TAI

The site area of the project will not occupy the whole area of Sawat Wat Tai Island because the surrounding area will have local people strolling around the island and opening restaurants around the perimeter. The project will be located in the center of the island, making it an easy access to shelter for people who are homeless during the flood and to deposit some forms of structures with the overpass.

Level of the area Muang District, Ubon Ratchathani Province, when there is a flood, the water level will be at the knee level of 0.47 m, mainly in that area, but the height will be lower depending on the severity of the flooding

Sawat Wat Tai Island is an area between the center of Ubon Ratchathani province and district. The island area is a resting area for the villagers to build bridges to connect to the Sawat Wat Tai Island, where there are villagers selling food on the waterfront during the hot summer months. But during the rest of the year, it is an area that is not in use, as it is a natural area that is known as dangerous place filled with illegal activities.

Furthermore, this area is also known as one of the top areas of drug abuse in the community as well, but the government has currently taken to improve the area because of the importance of this sightseeing spots in the city center.



The latest Thai flood in Ubon Ratchathani has caused many issues in the online world. There were stories of people who could not access support because of the lack of access in the area for various agencies in the distribution of goods to households that were trapped within the flooded area. This caused many misconceptions in the field of aid to victims of the flood. In addition, the accommodation space were inadequate, as well as the issue of difficulty and inconvenience of transportation.

DEVELOPMENT USELESS PLANTS

Water hyacinth is another problem with the ecology of rivers that occur in Thailand as it affects the flow of the river to reduce up to 40%, which causes the waterway to become obstruct. Also, there is competition for space to store water, issue of poaching for water and food from plants that grow, as well as being an obstacle for the growth of aquatic animals in the river. Nonetheless, the water hyacinth also possesses many benefits, such as its aid in treating waste water, being nutrients for animals and can be converted into various goods.



Therefore, this project aims to help get rid of water hyacinths in areas that are affected by flooding. In addition, water hyacinths also help to generate income for the communities that use this area as tourist attractions, in order to enhance the efficiency and effectiveness of the aforementioned space.



The leaves are applied to make a dish from water hyacinth leaves.

The trunk is used to make wickerwork. Given to people in the community from natural costs that are free

MAIN CONCEPT

In this area, there are food businesses which generate financial income for locals during the summer of every year. But due to the rainy season in Sawat Wat Tai Island, it is difficult to use the area because of the hazardous water level that may cause harm. So there is no income opportunity during other time of the year.

The floods actually contains advantages in terms of adding nutrients to the soil to get good crops, as well as an opportunity to educate the locals on living with rivers and the nature of the cultivation of plants in accordance to the season combined with the seasonal water level of this area. Therefore, this area is a sample area for integrating with nature, understanding the nature and the plants that grow which will be ingredients for northeastern Thai food that villagers can exchange and use to cook in various waterfront restaurant areas.

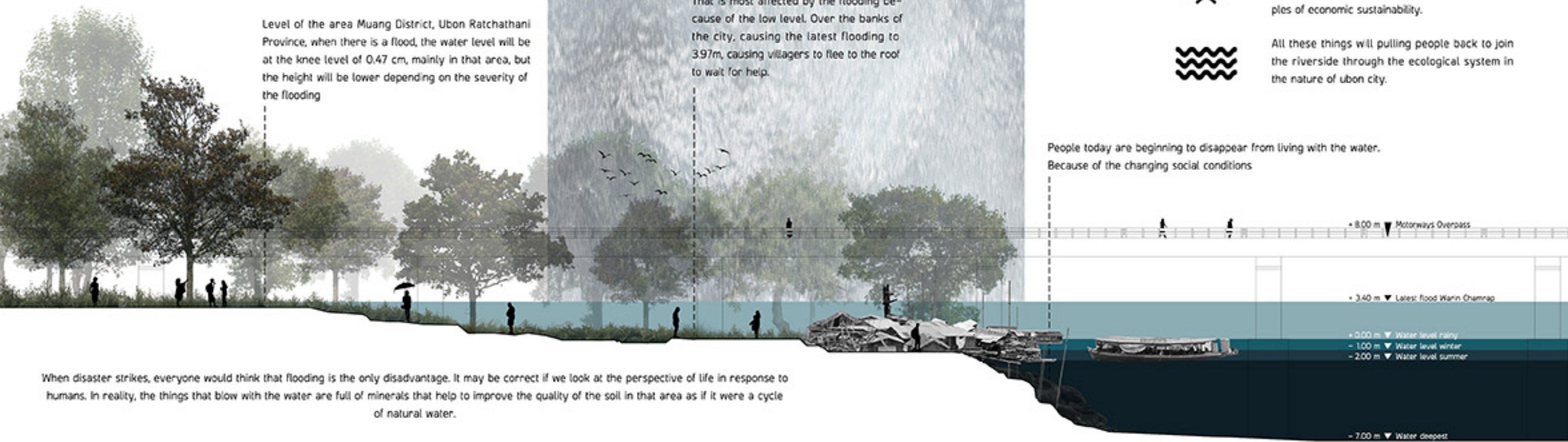
MONTH FOR PLANTING

| | | |
|------------|-----------------|-------------------|
| 1 Chili | 7 Dill | 13 Tomato |
| 2 Onion | 8 Parsley | 14 Morning glory |
| 3 Cucumber | 9 Spinash | 15 Water hyacinth |
| 4 Peanut | 10 Garlic | 16 Lettuce |
| 5 Mint | 11 Basil | 17 Red basil |
| 6 Carrot | 12 Water Mimosa | |

PROGARMING

- Flood relief area for flood victims and sent forces to go in and oversee the area around the city.
- The cultivation of plants that are compatible with the use of water level according to the season, as an example project of utilization from sustainable nature.
- Wickerwork using the water hyacinth in problem changes to use create income for the people in the project area. This project will be the examples of economic sustainability.
- All these things will pulling people back to join the riverside through the ecological system in the nature of ubon city.

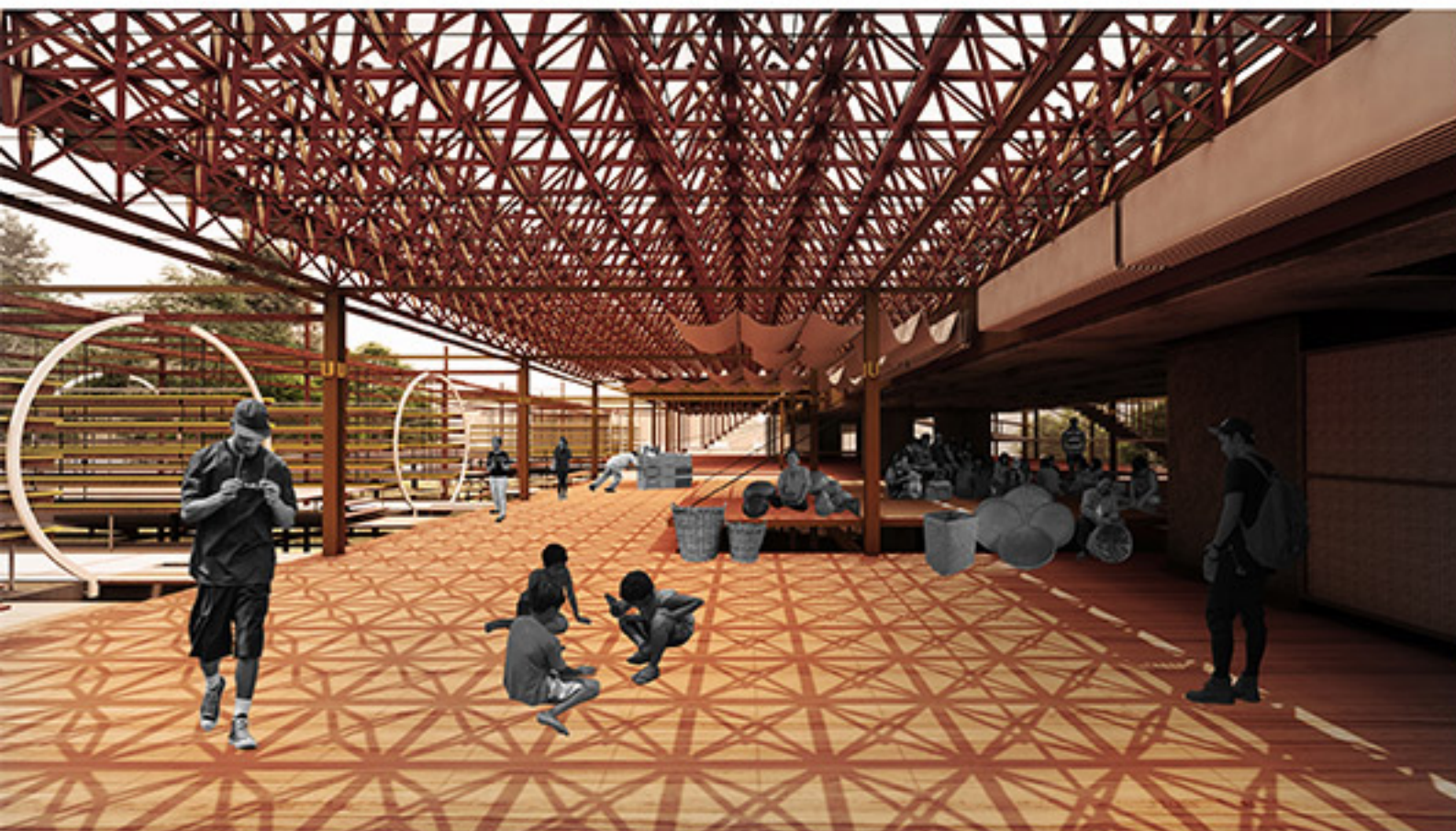
People today are beginning to disappear from living with the water. Because of the changing social conditions



When disaster strikes, everyone would think that flooding is the only disadvantage. It may be correct if we look at the perspective of life in response to humans. In reality, the things that blow with the water are full of minerals that help to improve the quality of the soil in that area as if it were a cycle of natural water.

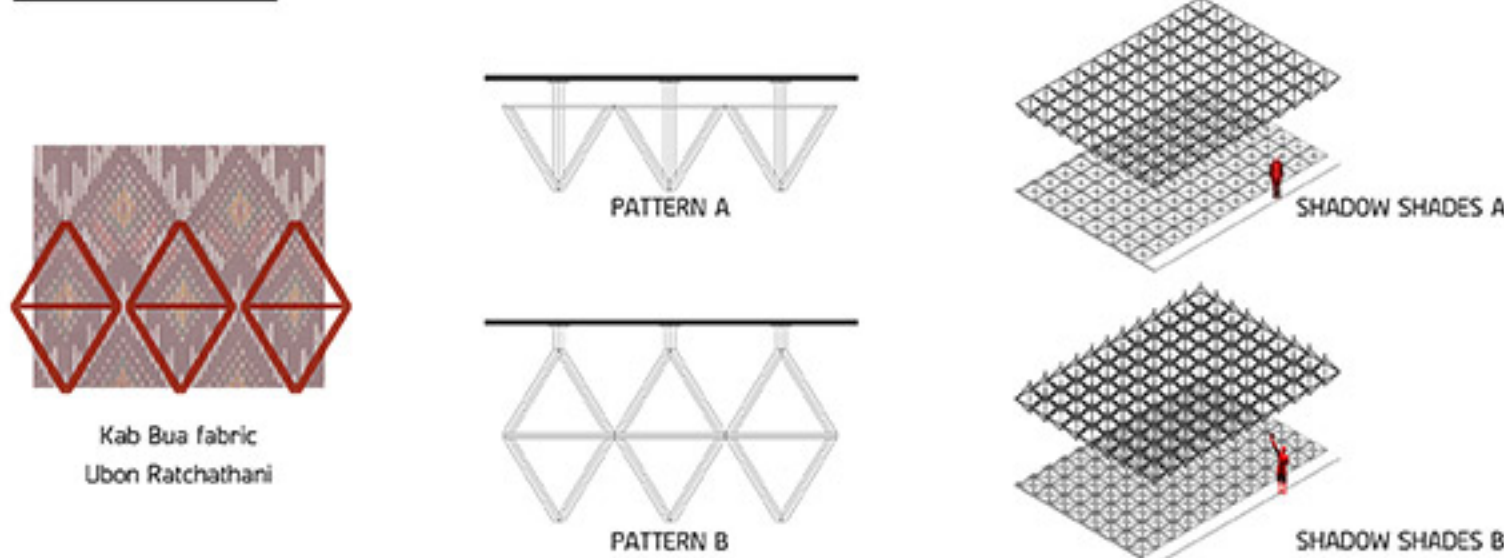


It can be seen that the location of the project does not use the area to fill the entire island because most areas on the island are for people to stroll, spend their free time, open restaurant the riverside, use this area. The addition of activities allows the area to be used throughout the year, not just during the hot summer months of the year and leaving space for the nature of this area that needs to be served as a water receiver during the rainy season.



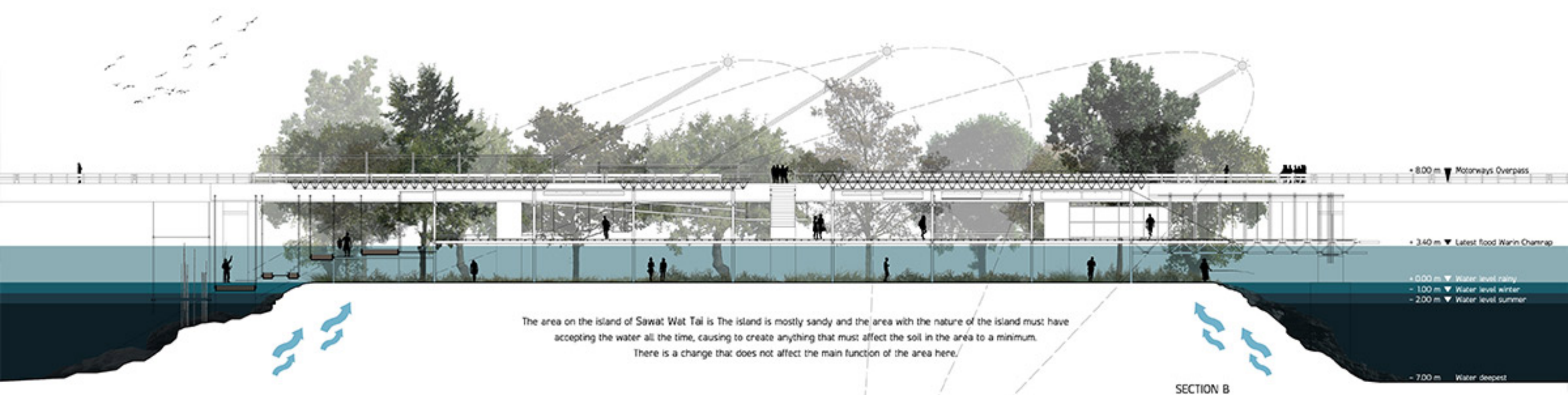
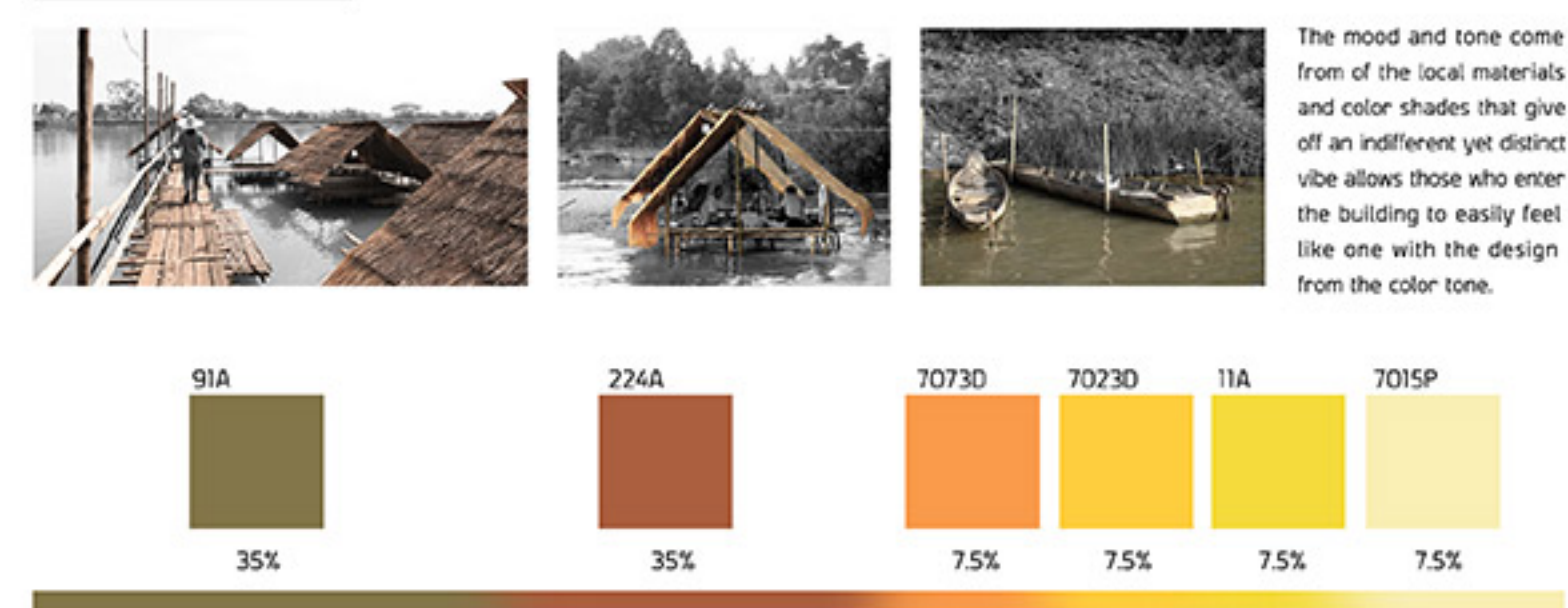
The portrayal of an area that shows the identity of the community created by using water hyacinth to promote income for people in the area is a vision and narrative that helps prevent the flooding in Ubon Ratchathani, in which the locals will be able to observe the problems and the violence of natural disasters that have occurred in this context throughout the area. Furthermore, tourists will be able to come to visit and promote tourism in the area and downtown. This structural design has been inspired by the pattern of the Ubon Ratchathani's Kab Bua fabric, in which the outline and design has been used to add on a three-dimensional form and play with the sun's falling time, resulting in a unique pattern all year round.

PATTERN CONCEPT



Nowadays, not many people used the waterfront area for recreation and relaxing like before, but there are still some villagers coming to use the waterfront area. The thought behind this project have also been mainly based on the behavioral aspects of the locals, in which it can be observed that most of the locals will come out to enjoy the waterfront area during summer.

NIPPON PAINT COLOUR



The area on the island of Sawat Wat Tai is the island is mostly sandy and the area with the nature of the island must have accepting the water all the time, causing to create anything that must affect the soil in the area to a minimum. There is a change that does not affect the main function of the area here.

SECTION B



Bamboo bridge, which is the knowledge of the villagers in that area. The bridge was built to connect with the island area. The bridge connects only the hot summer and the winter season because it is the period to build a bridge safely from the weak and low water level of the area having the bridge connected to the project is like having people in that area participate in helping to develop the project at the same time like creating coexistence with the basic identity of the community.



Krachaeng boats are ancient Thai boats that possess the form of a cargo ship. It is also entwined with stories of the livelihood of locals and boats.

In the past, some Ubon people lived along the Mun River, but with the change in ways of living, the constructive meaning behind the boat is also used in the interpretation of the plant tube form as the breadbasket in itself because it will provide both fish and vegetables for the locals, similar to how the Krachaeng boat were used to bring food to locals in the past.

WOOD ROOF AND
POLYCARBONATE
TRANSPARENT SHEET

STEEL ROOF STRUCTURE

CIRCULATION

PLANTS TUBE

STEEL STRUCTURE

PHENOMENAL
TRANSPARENCY SPACE

The roof component is made of wood and translucent polycarbonate sheets because there will be vegetable gardens in some parts of the project, so it is necessary to enable the plants to receive sunlight for synthesis and growth.

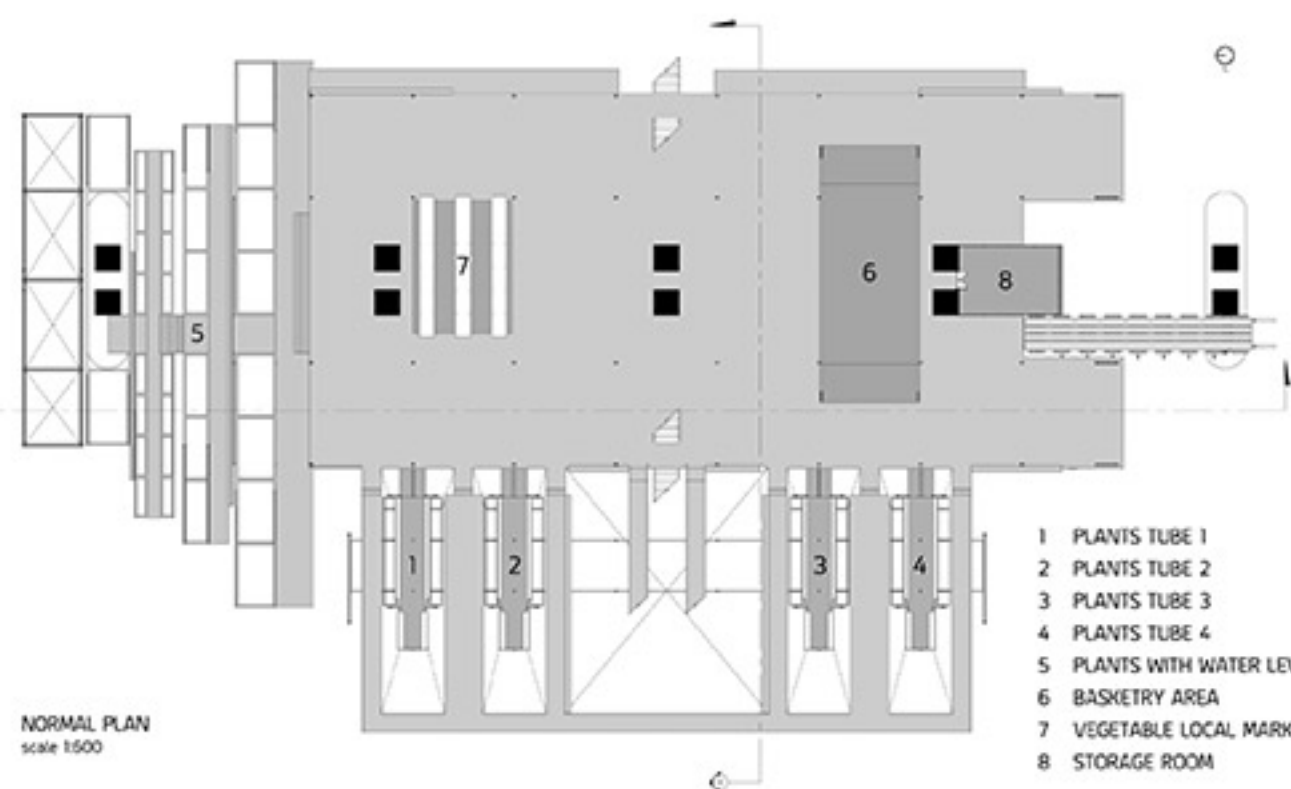
The roof is structured into a roof truss to be in accordance with the concept that the structure must not affect the ground that is helping to absorb various liquid of the soil.

The linking corridor will be in the form of a ramp and stairs – so that people of all ages can utilize accordingly, as there is a diverse community here and the pathways will also extend to support the surrounding nature.

The tube, which is both a mean for fish raising and vegetables planting, is a simulation of the possibility of creating a new style of agricultural cultivation where flooding will not affect the raised structure.

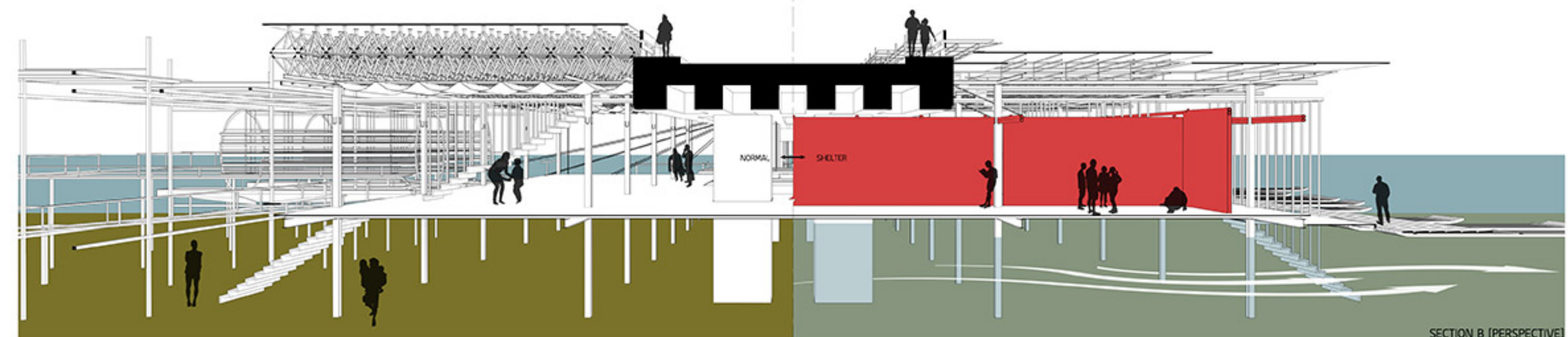
The architecture has chosen steel structures as the construction will be a dry system that will cause the least damage to the area regarding damage to the connecting soil area or the ecological system. This project will emphasize on the rolling technique to enable a wide range of area but to prevent the structure from contacting the soil as much as possible.

The project will be closed off to the plane or to close the wall in only a few points because the architecture needs to be airy and transparent, in order for people inside to see the surrounding area. Also, the structure will be supported by the overpass on a sling.

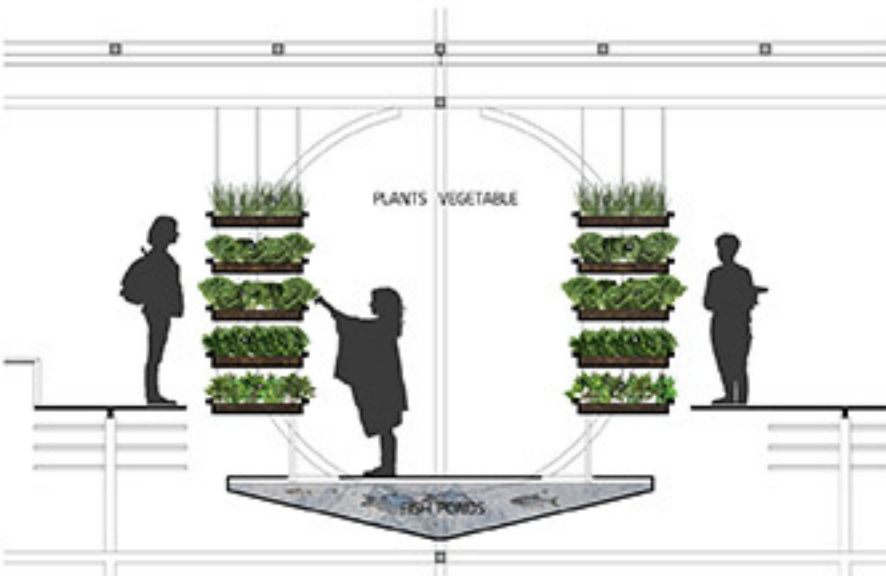


NORMAL PLAN
scale 1:500

- 1 PLANTS TUBE 1
- 2 PLANTS TUBE 2
- 3 PLANTS TUBE 3
- 4 PLANTS TUBE 4
- 5 PLANTS WITH WATER LEVEL
- 6 BASKETRY AREA
- 7 VEGETABLE LOCAL MARKET
- 8 STORAGE ROOM



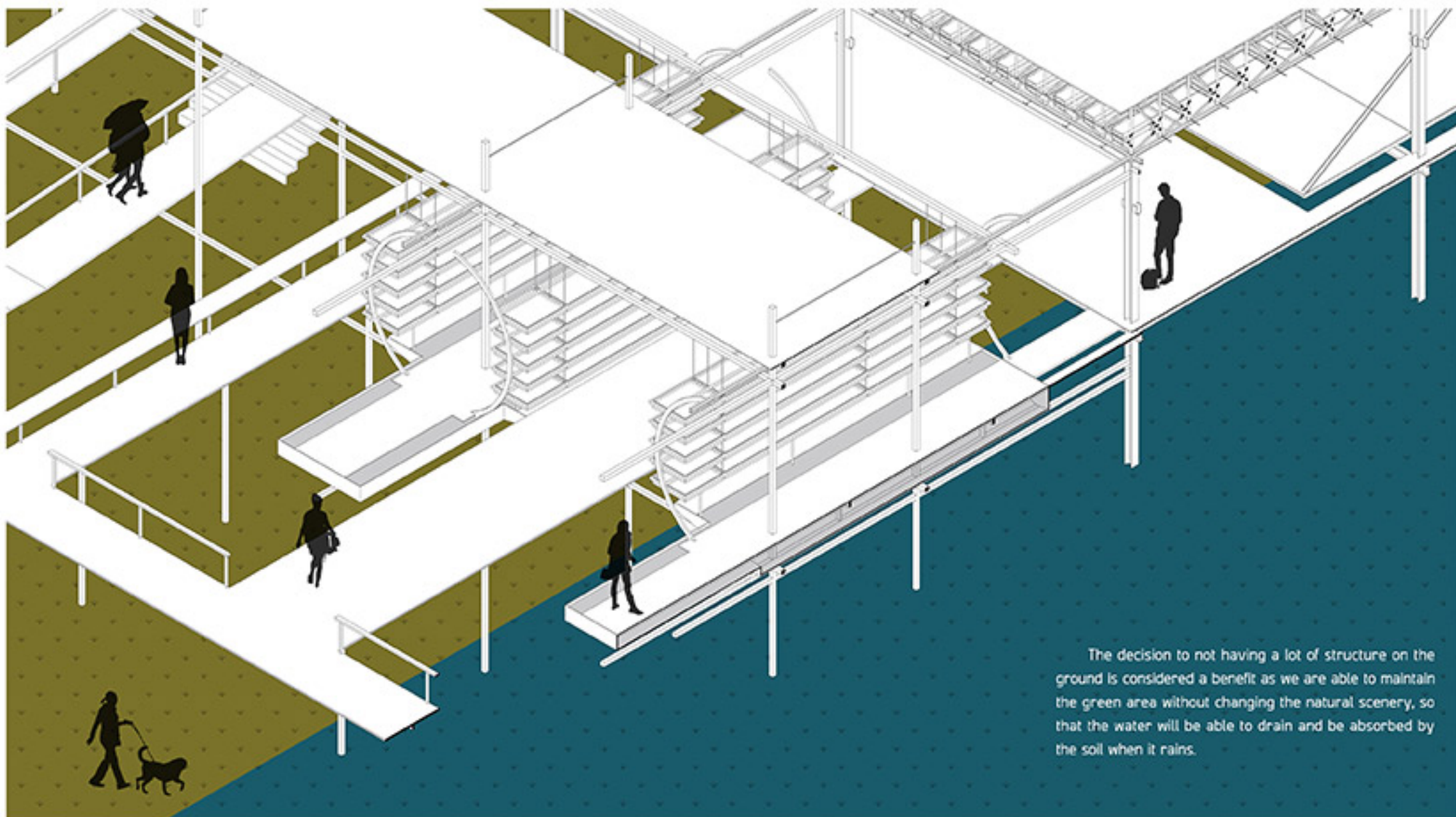
SECTION B (PERSPECTIVE)



Plant tube is a form of building an open ecosystem, which is an example of agriculture done in a constraint space that is elevated from the flooded areas of the city.



REQUEST



The architecture will focus on the design in the direction of coexistence with the nature of the flooded area, which makes it necessary to speak about the use of various levels of space. Another aspect is that this project area must be used by people sustainably, as it covers not only being a resting area but also an area that helps to generate income and improve the quality of society. The project will be an example of reflecting on the society that refuses to adapt to nature and stimulating the conscious of a sustainable coexistence of Thai people, as it was very rare for humans in the past to take the ecosystem and nature into consideration.

If not affected by the past events, such as the flooding, there would still be a lack of understanding of the potential of the area as an area that receives water during the rainy season every year. This is because of the conception that we are able to effectively manage the water, but there are many other factors that cause tragedy events that they encountered in current days.



SOS , SHELTER

At the time of the flood, this project area will change into a public relations area to help people in Ubon Ratchathani because the structure of the architecture is linked with the high-rise bridge that is high enough to not be completely covered by water. The area is also able to reach out to the surrounding area around the flood, which allows access to help distribute rice, dry food and beverages. This structure will ensure that the same mistake of the lack of access will not be repeated. The use of lights is to help people identify and recognize the area as an area that distributes help to others in various aspects.

SHELTER PLAN
Scale 1:600

- 1 TOILET
- 2 RESTING PLACE
- 3 PUBLIC RELATION
- 4 STORAGE AREA
- 5 HEAL AREA
- 6 PORT