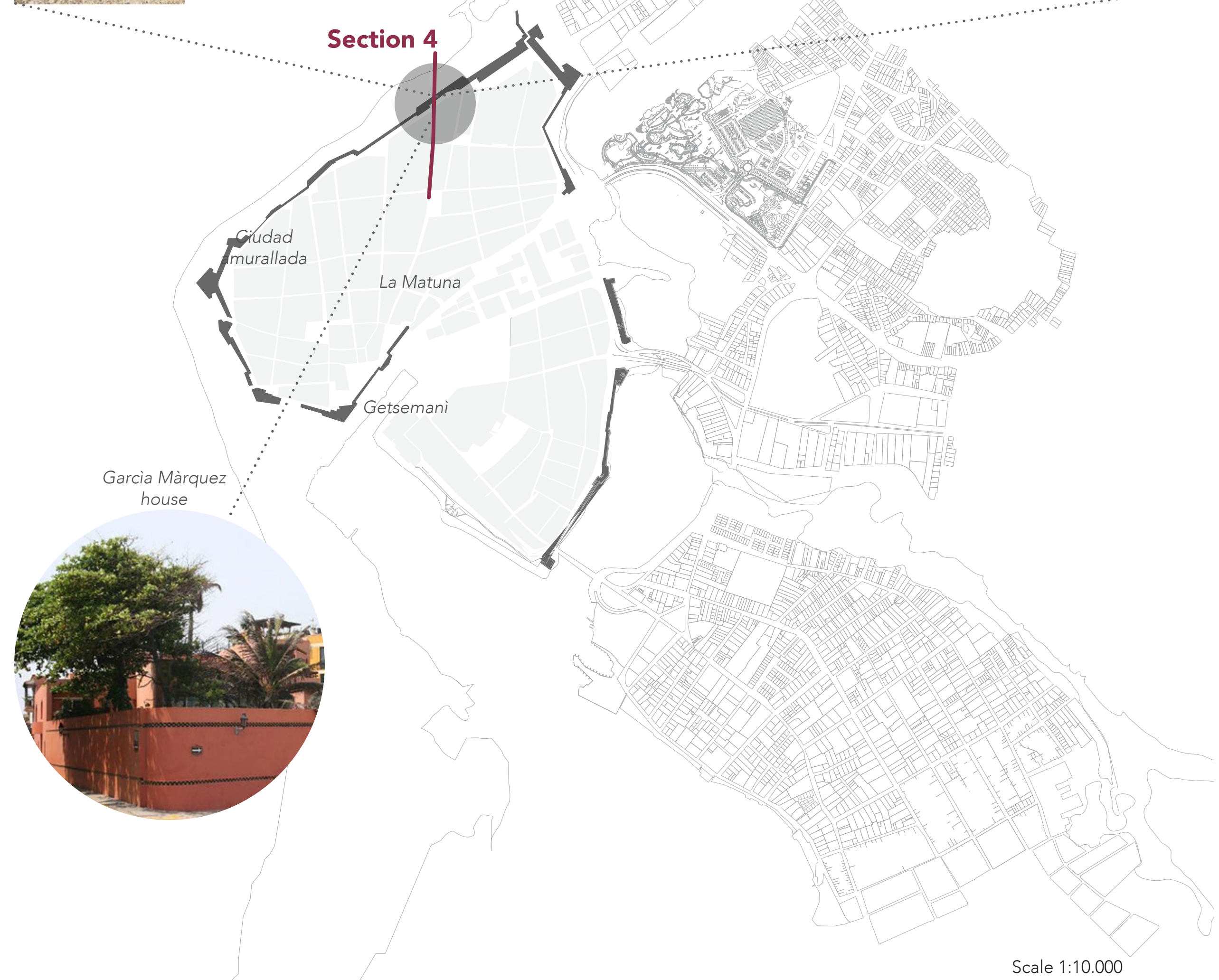


# Taller Cartagena 2017

Group 3 : Tatiana Castro, Hasanain Haveliwala, Domenica Polverini, Lucas Rodriguez

## DESIGN CONCEPT

A place where tourists and locals alike could enjoy the rich musical and performance oriented heritage that this beautiful city has to offer, without feeling ambushed by the performer is what we wanted to create. This was primarily the outcome we took from our urban action. We decided to use the full potential of the site given to us and make 3 stages with naturally occurring backdrops and encouraging performances. They being Garcia Márquez's house, the walled city and the coast. These are amazing backdrops to the performers and their art. Events of any scale can take place on this structure and this helps make a connection over the wall that currently separates the coast and the city within the wall. It also helps activate green area between the wall and the road which is currently just left lying vacant. With the addition of the roof structure and movable seat arrangement this structure can be used at all times of the day, in any weather and also for any purpose as required by the user.

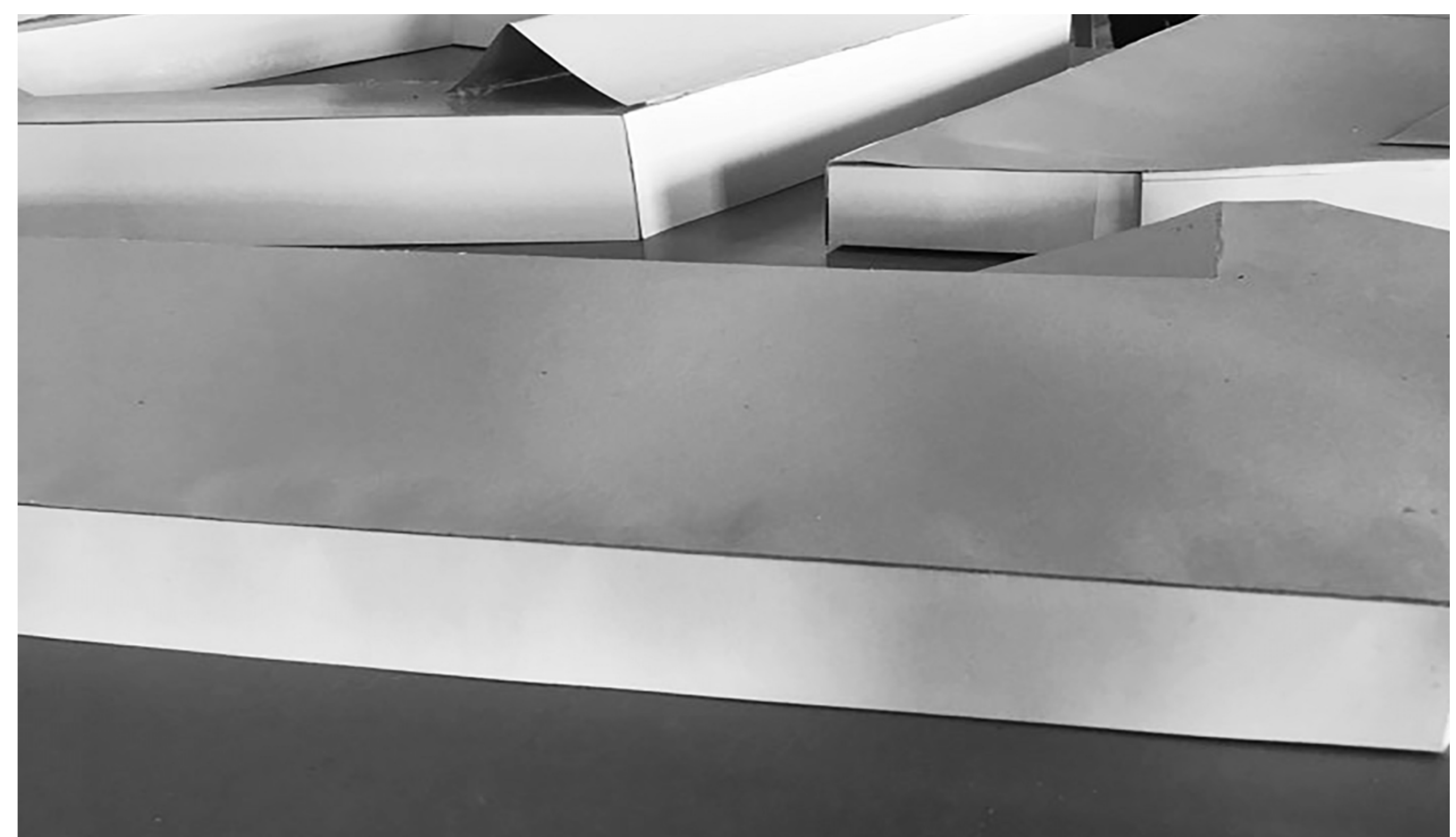
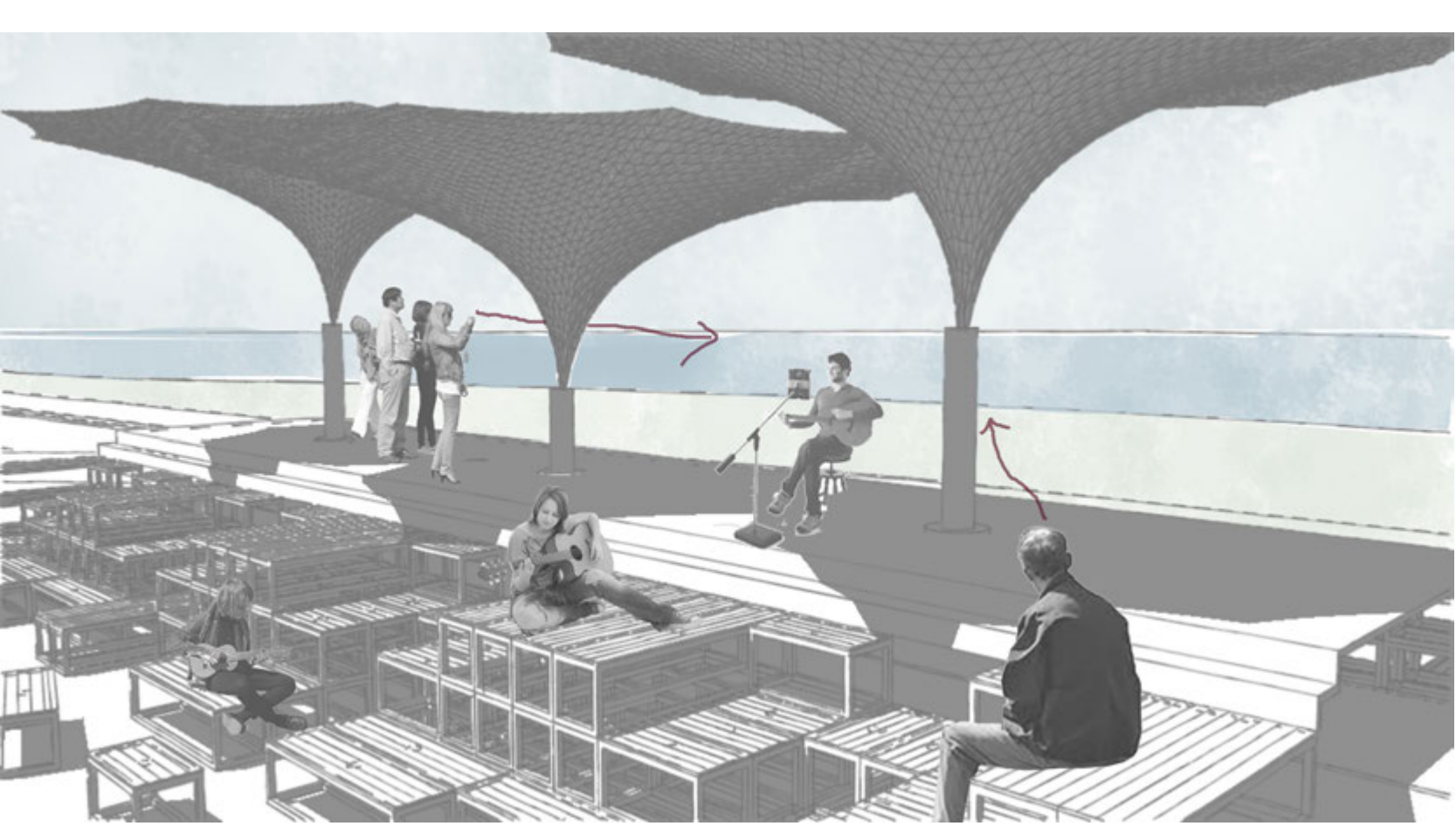
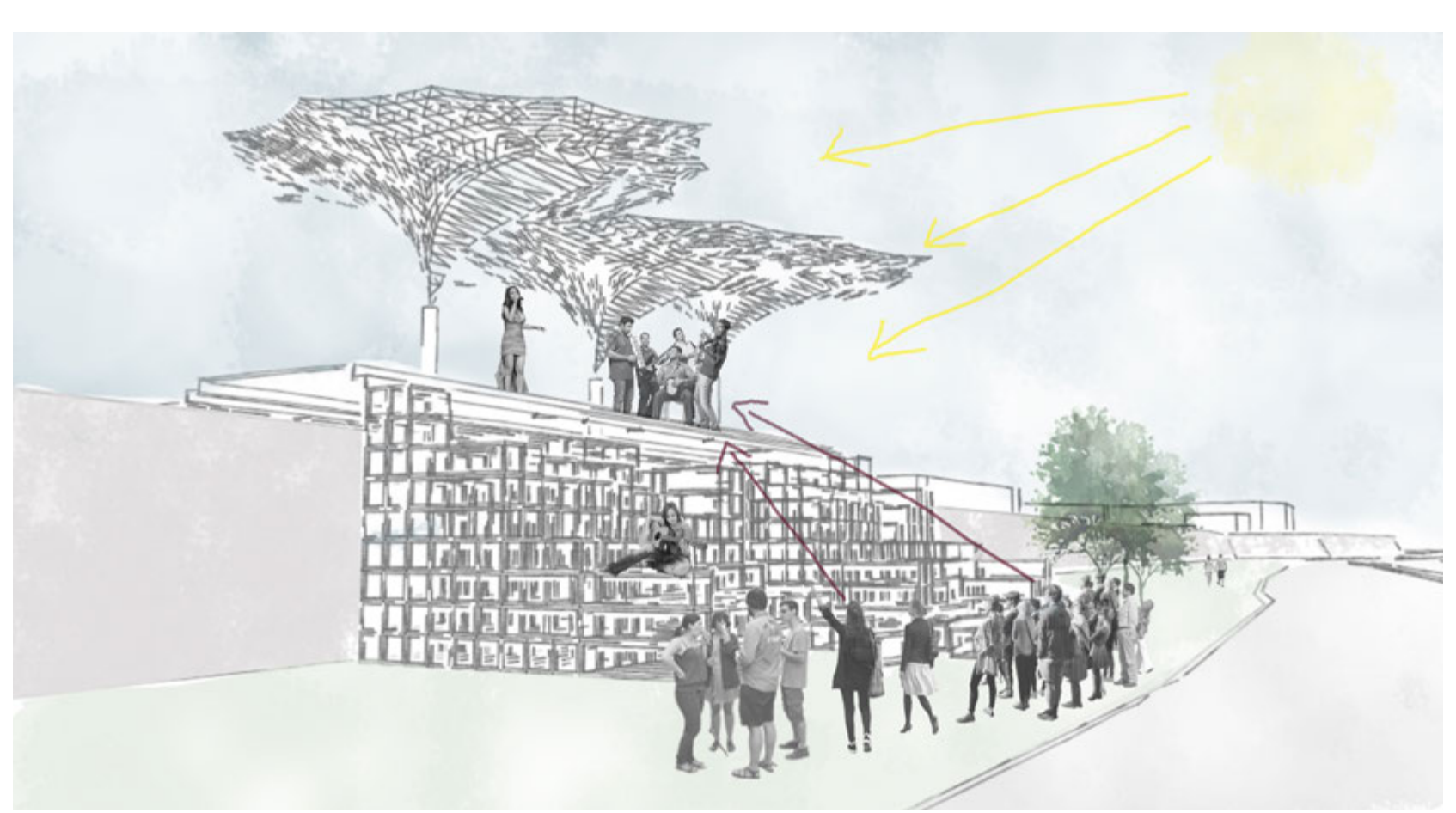
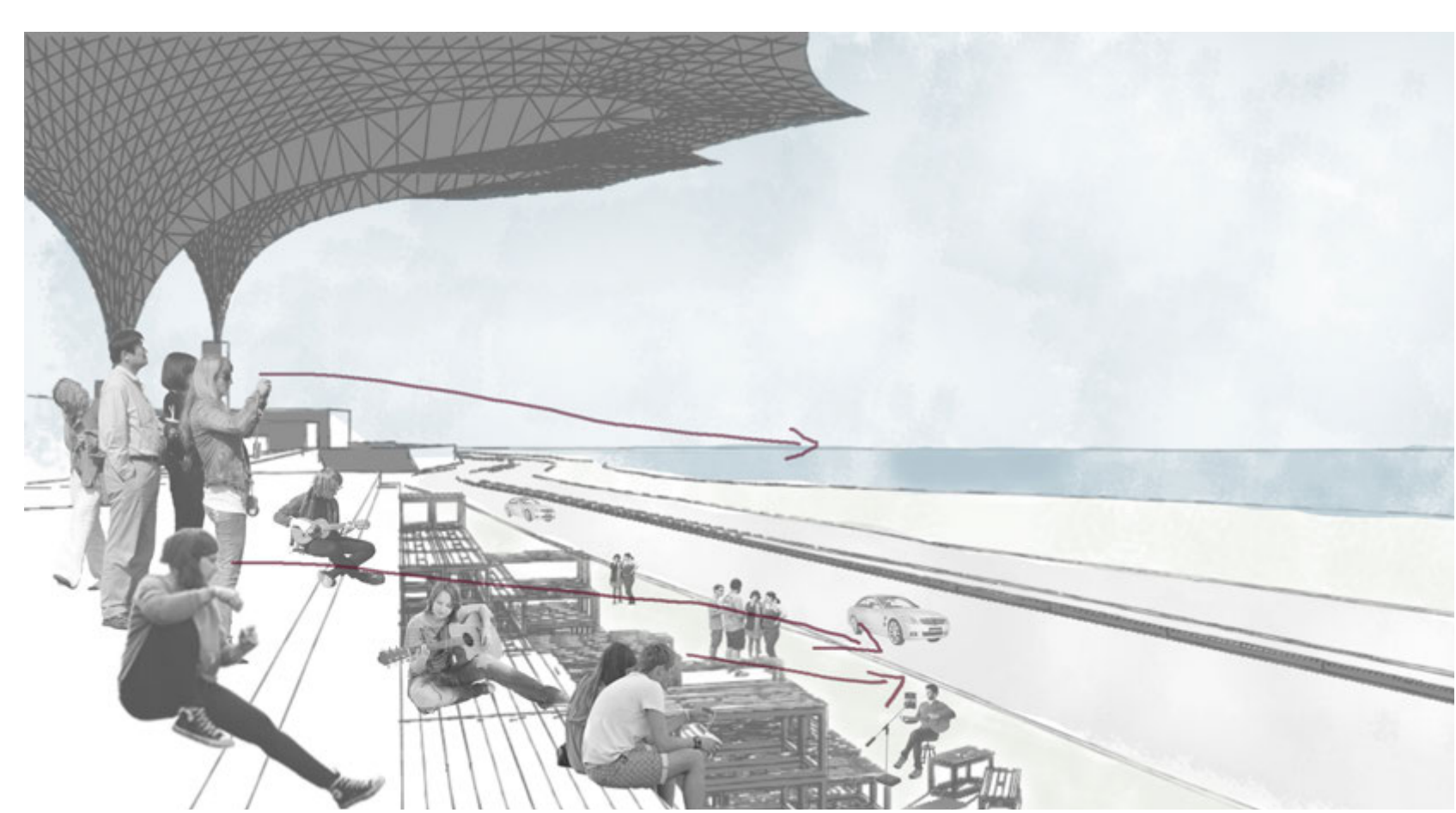
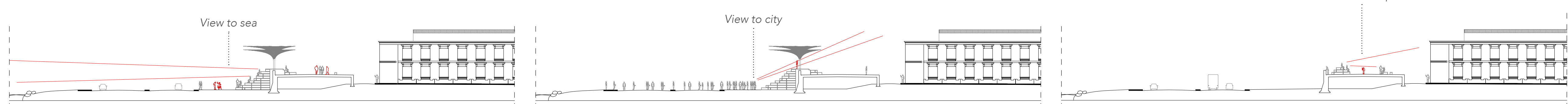


## SEAT CONCEPT

The development of our concept for our design was initially to make modular street furniture and we happened to stumble upon Jenga Blocks. The function of the seats is to primarily provide a resting place for the audience of the performers. Helping to maintain a distance from the performer and giving them space to express their art. We wanted to make this street furniture modular and movable so that it could be used in various combinations depending on the purpose it is serving at that time.

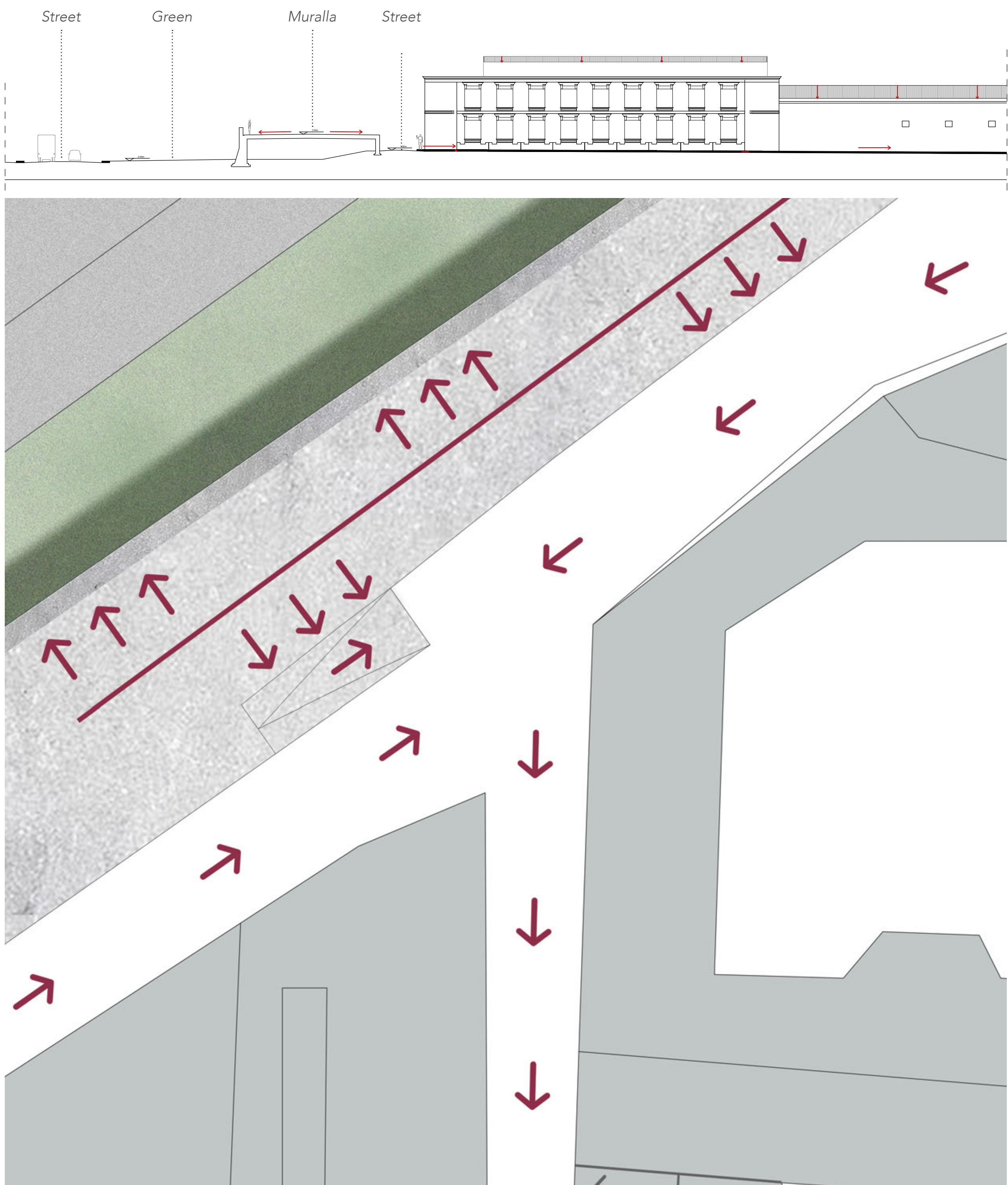


## DIAGRAM SECTION



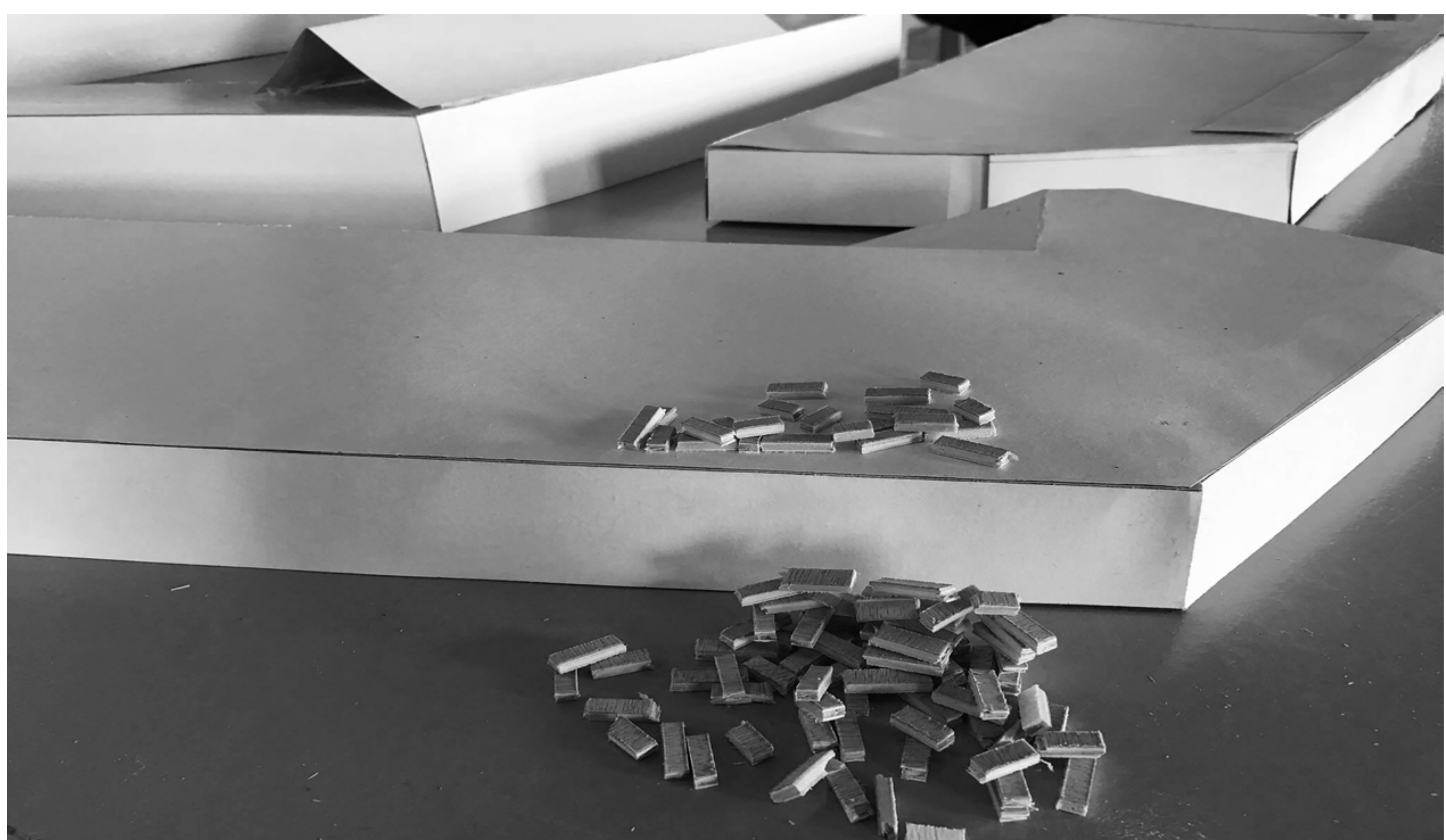
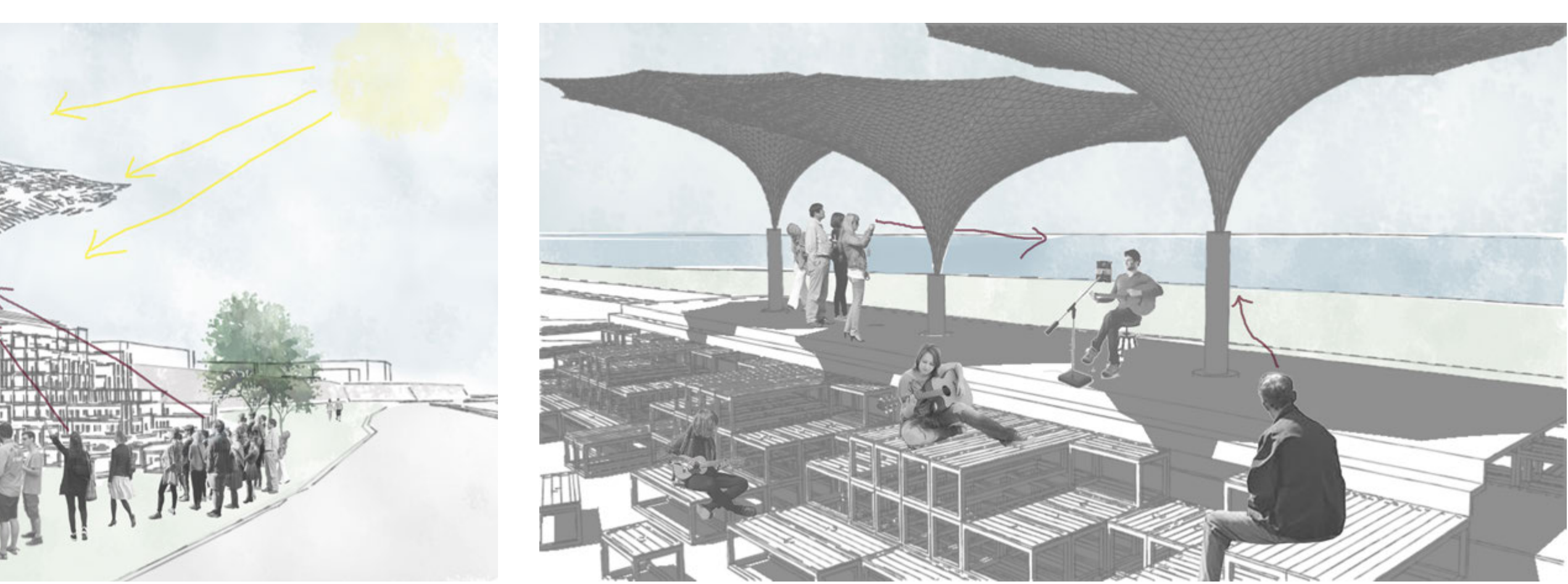
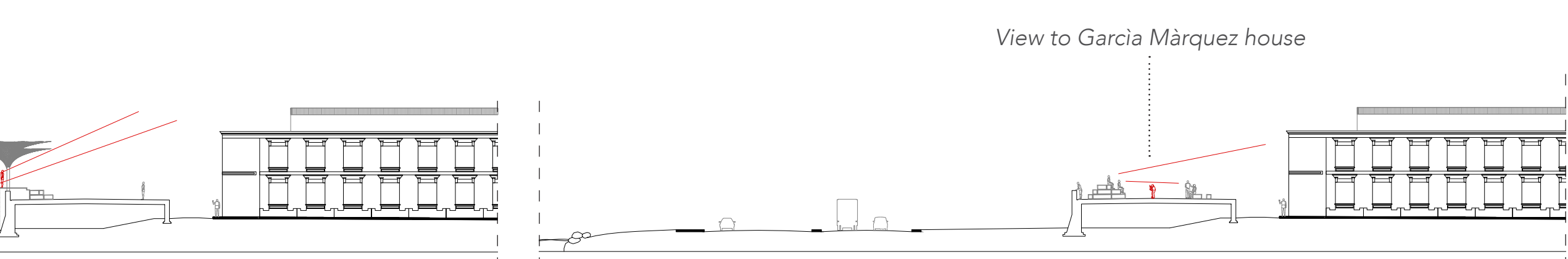
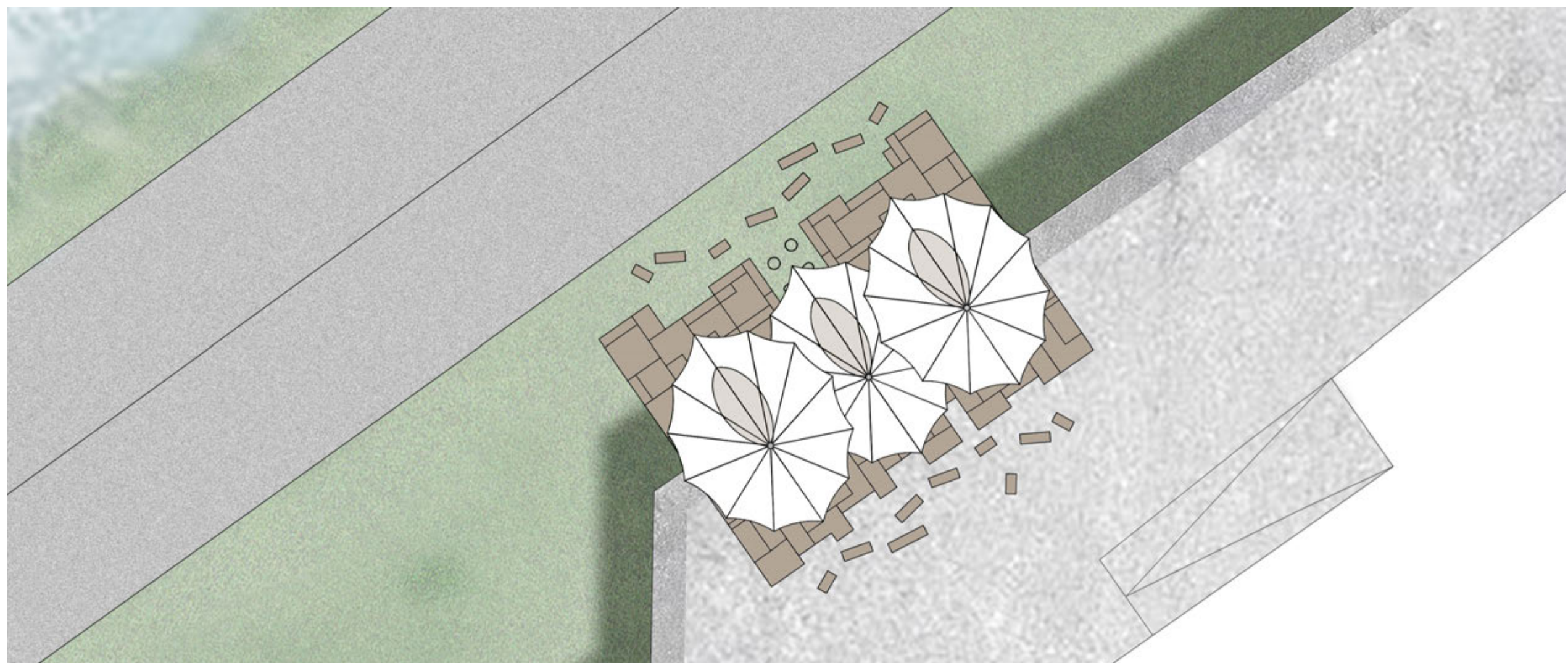
## STORMWATER DRAINAGE

Scale 1:250

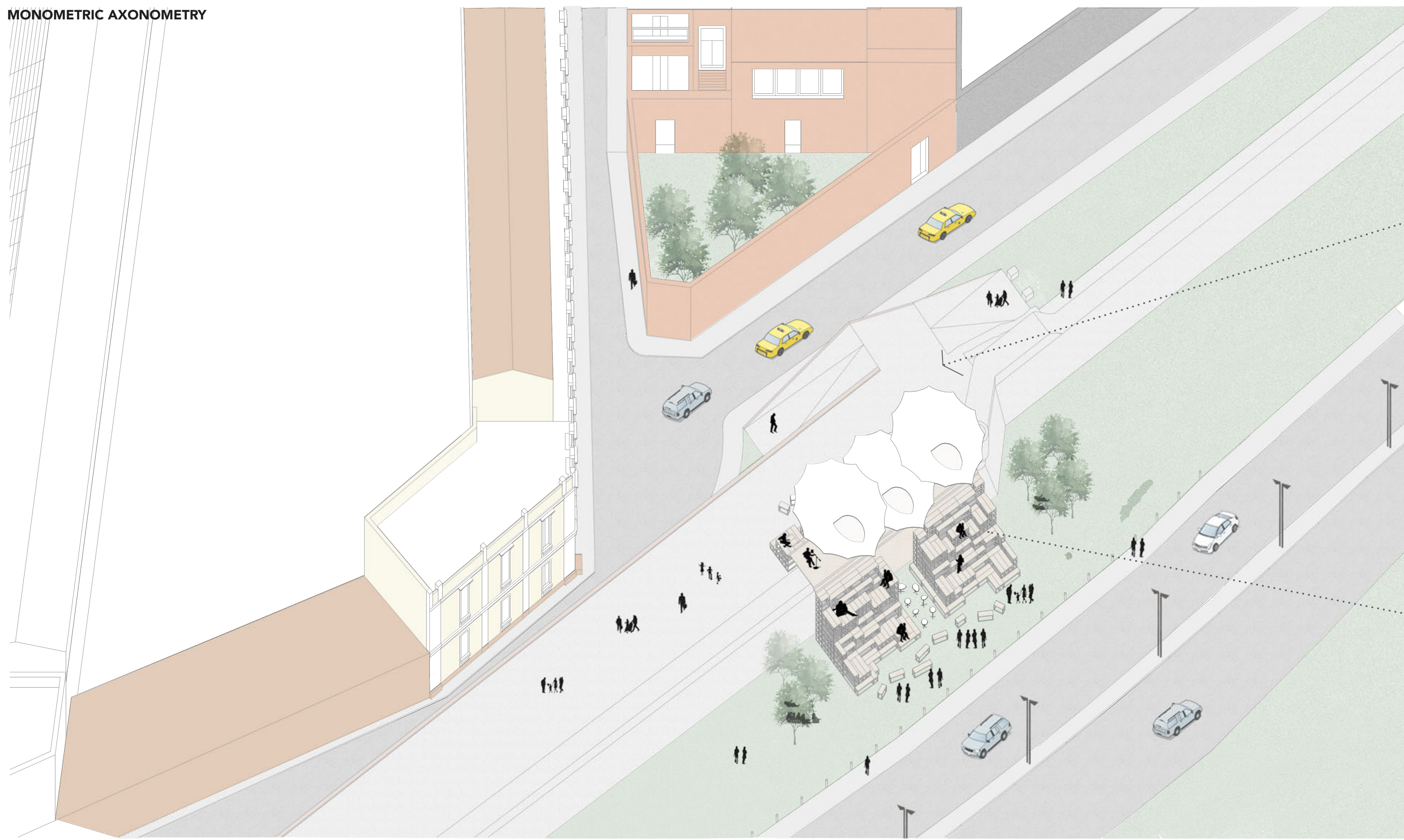


## ROOF CONCEPT

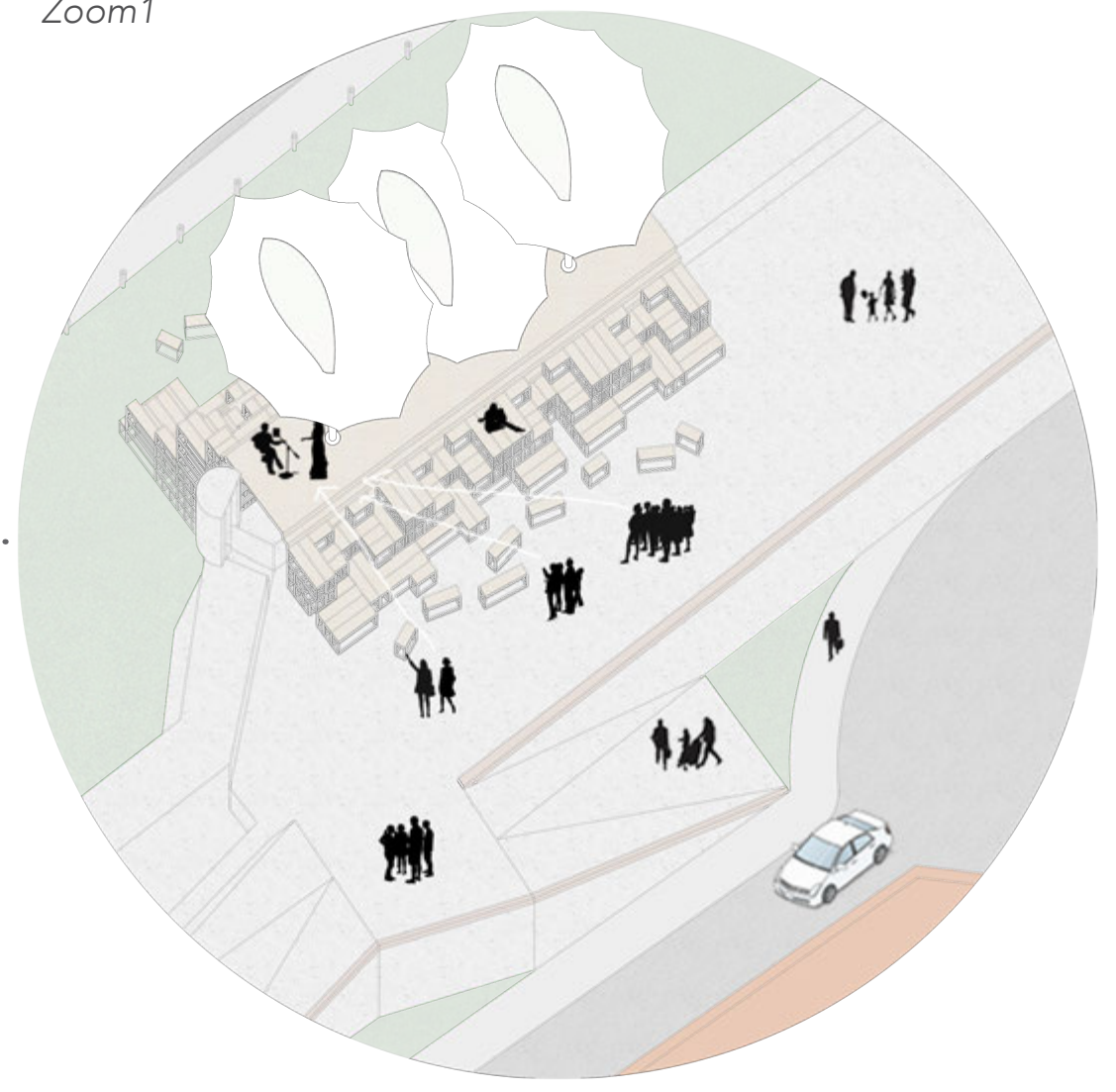
The requirement of shade in Cartagena is vital as temperatures and humidity can soar throughout the year and a shaded public place is a blessing for all those on foot who are out exploring the city or just going about day to day chores. Water is another important necessity which we wanted to harvest and help implement our concept for music in our built structure.



**MONOMETRIC AXONOMETRY**



Zoom1

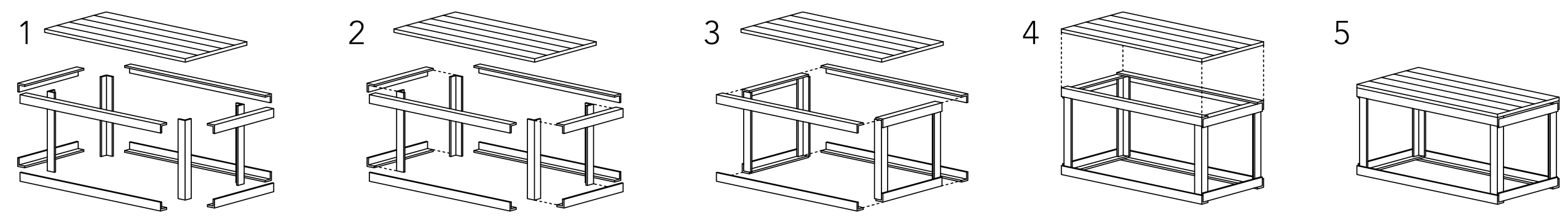


Zoom2



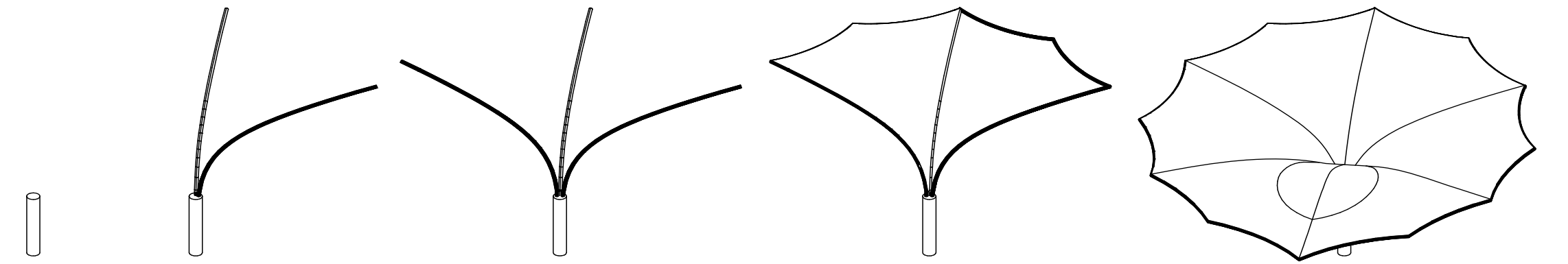
**SEAT CONSTRUCTION**

The seats are 0.5m wide by 0.5m high as a standard and the lengths vary to 1m, 1.5m and 2m. Due to this modularity they can be arranged in various configurations. The construction of these seats is easy. Using 12 aluminium L-channels and screws to form the frame and then top the same with a recycled wooden plank. The predrilled holes in the channels allows for ease of assembly.



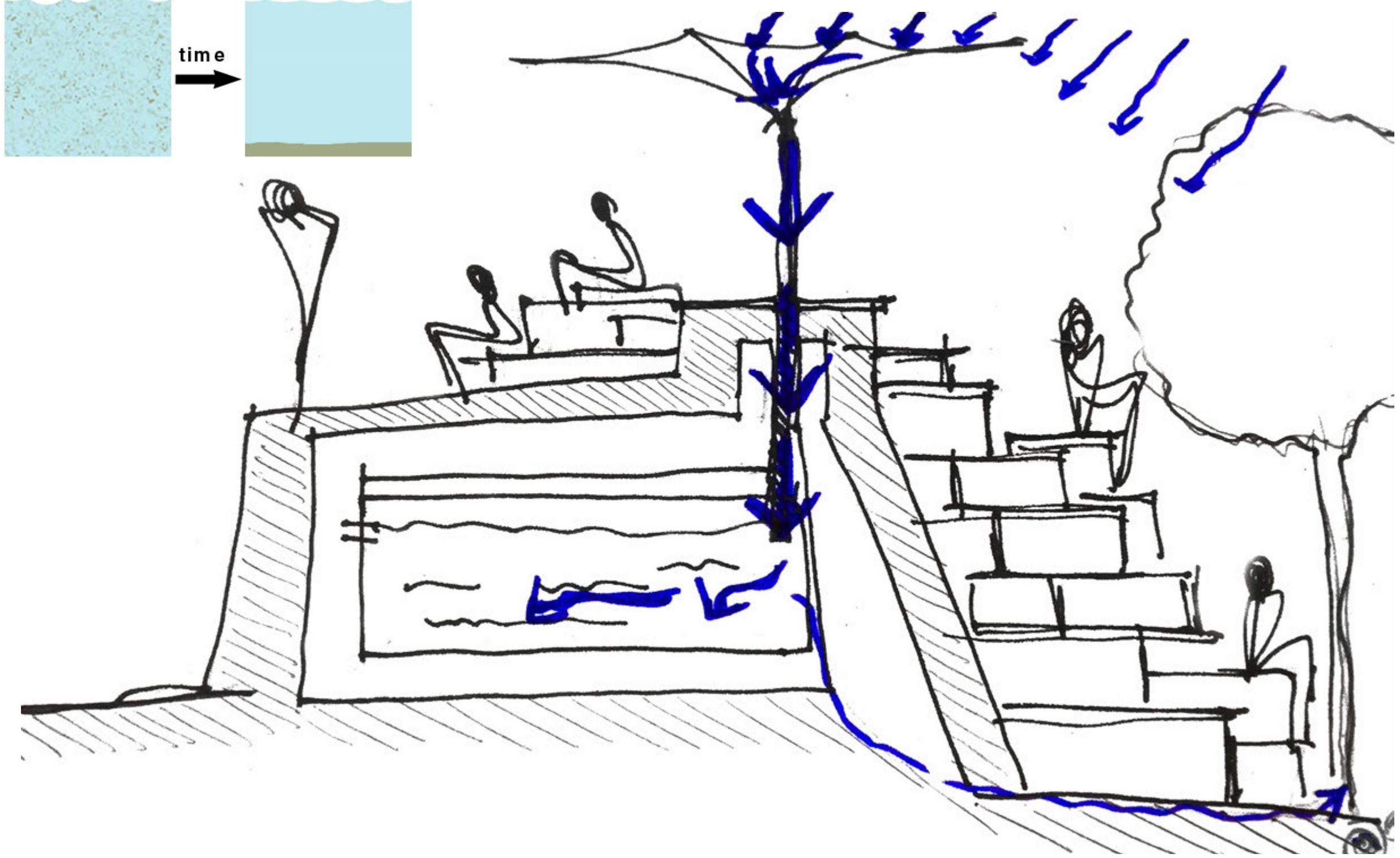
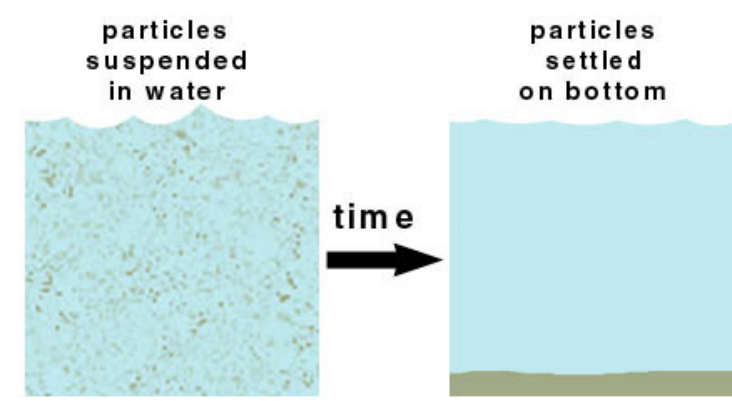
**ROOF CONSTRUCTION**

The inverted umbrella concept is what we decided to use so that not only is it a shading device but doubles as a water harvesting system as well. It provides shade over a large area and makes the area more comfortably habitable all year around. This large tensile structure is made up of metal rods and tensile fabric. Water collected in this will filter down the larger metal pipe which will have several elements that will obstruct the flow of water and make it sound like a cascading waterfall. This will give the structure its soothing noise element.



**RAINWATER HARVESTING**

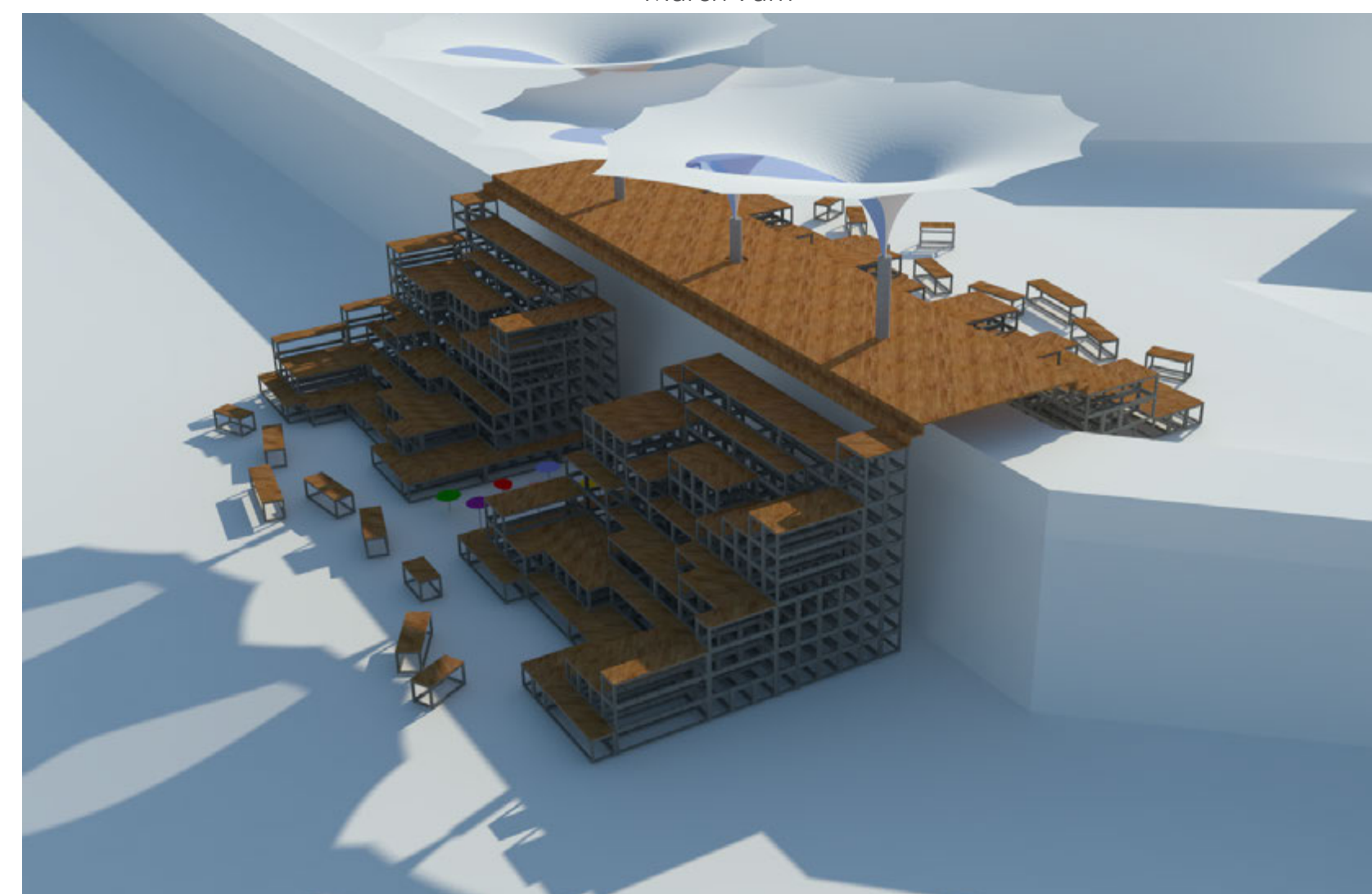
The water collected from the roof will be diverted into a storage tank within the wall. Originally the purpose of the wall, other than defence, was to store water for city. We intend to repurpose the wall in the same way. The large surface area (approx. 70m sq) of the roofs will allow a greater quantity of water to be harvested. The water collected from these 3 structures will be transferred into a storage tank within the Muralla to start a simple sedimentation purification process. In this way, grey water can be collected and used for various functions such as gardening or general cleanliness of the city. Overflow from this system will be released systematically into the city's sewage system.



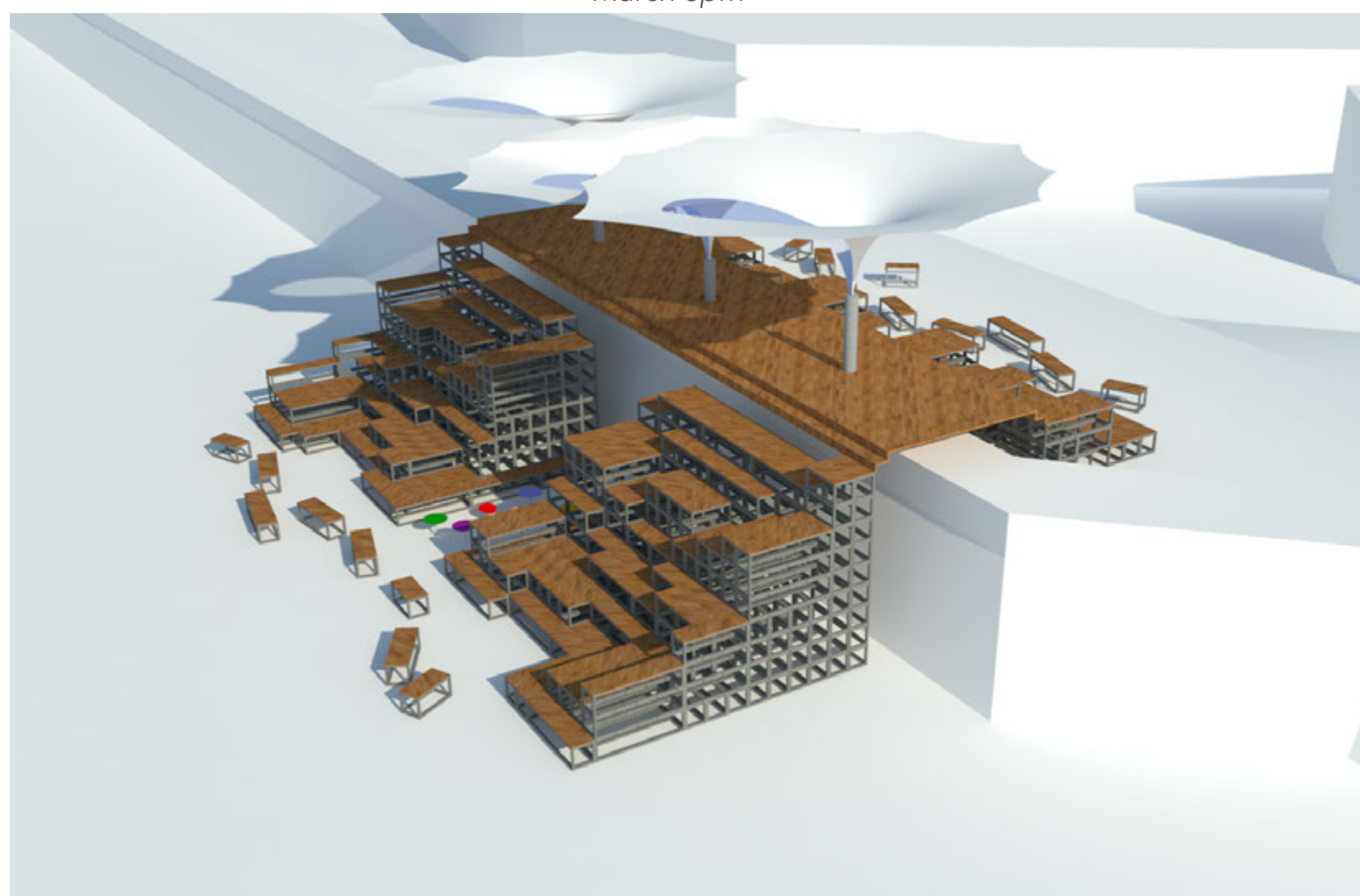
**SHADOW ANALYSIS**

This has been conducted for the site for 3 days in 2 different months, at different times of the day (9am, 12pm and 3pm). This helps us figure out how effective our roof is during the entire year.

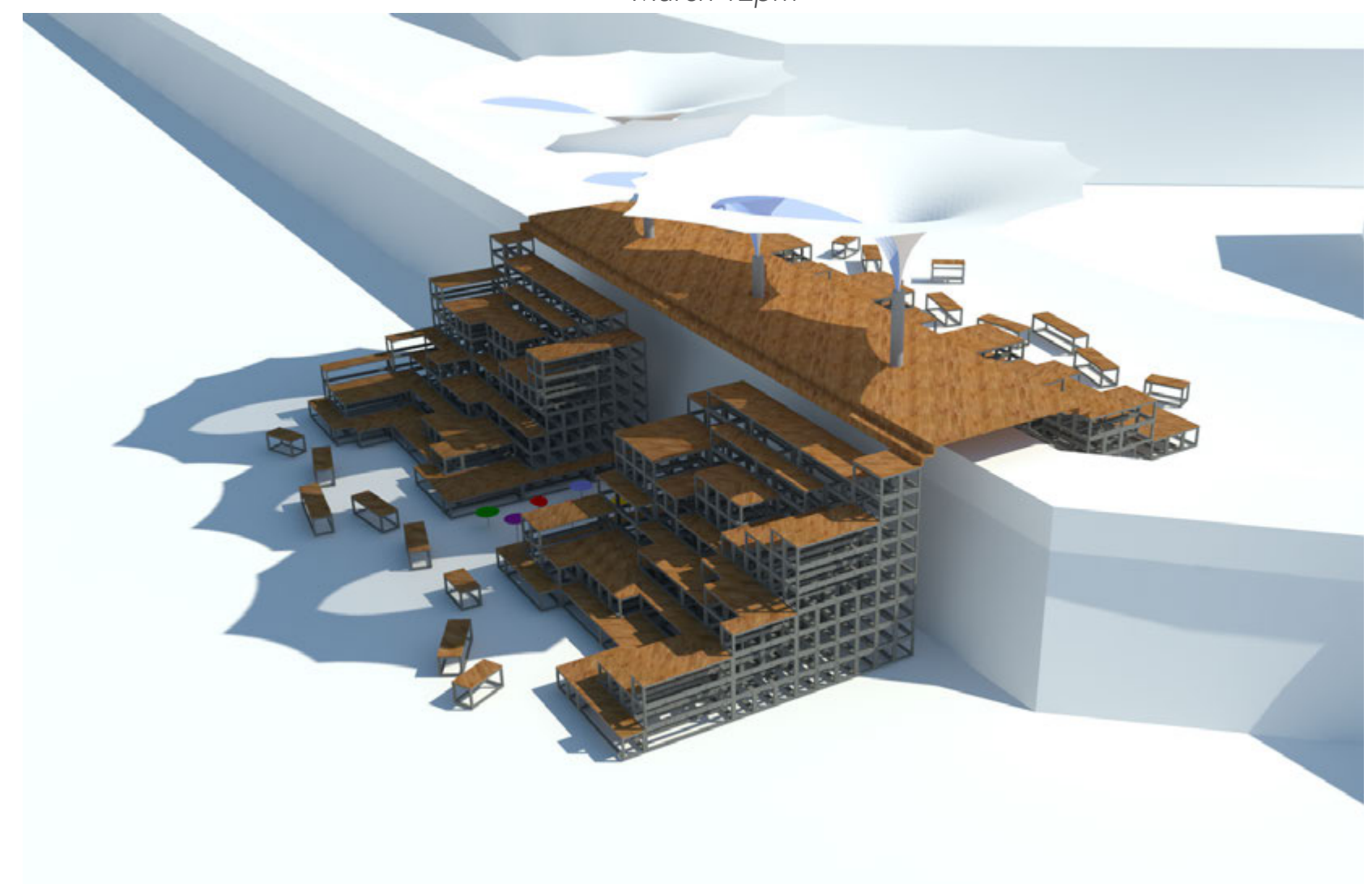
March 9am



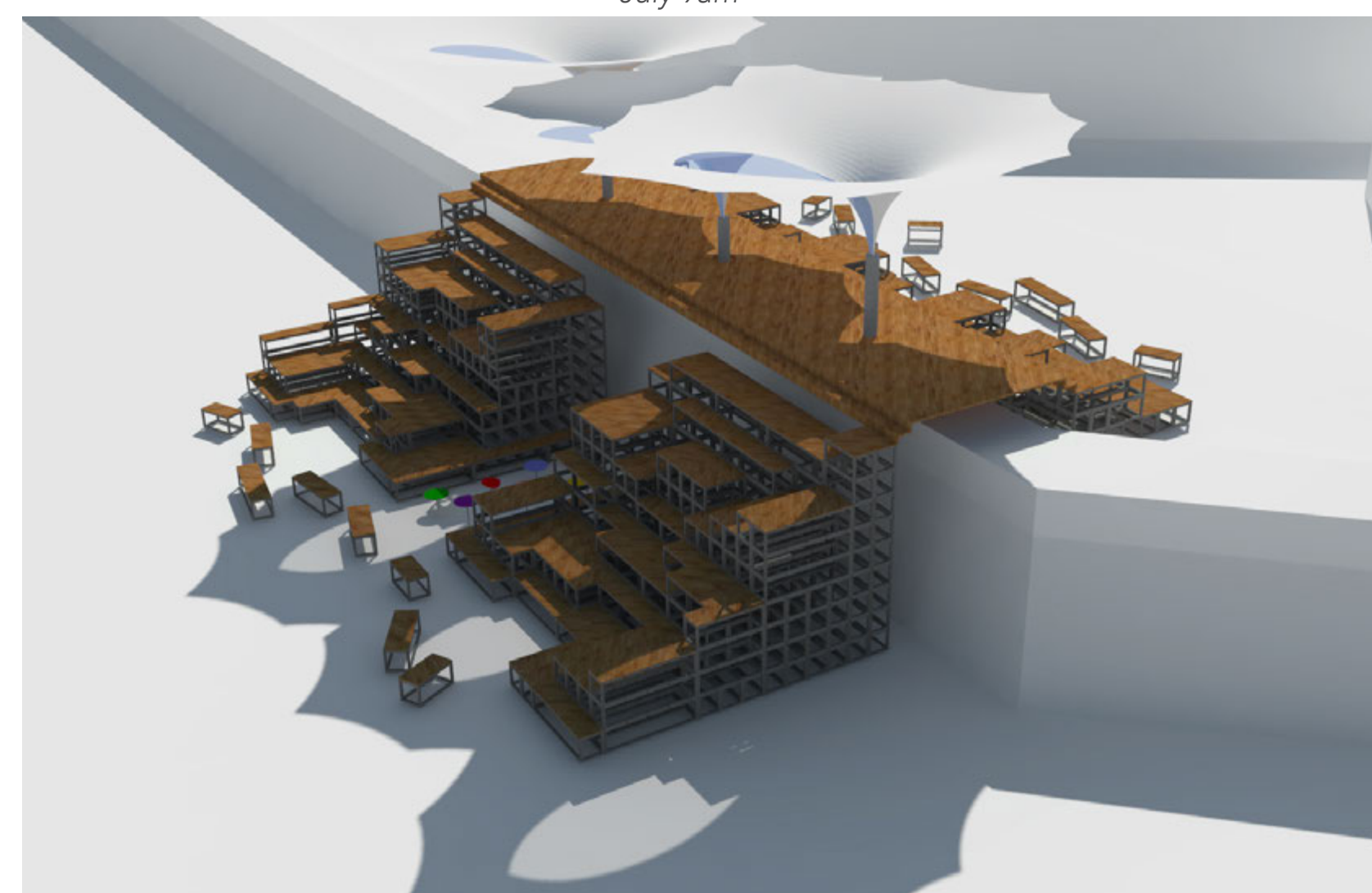
March 3pm



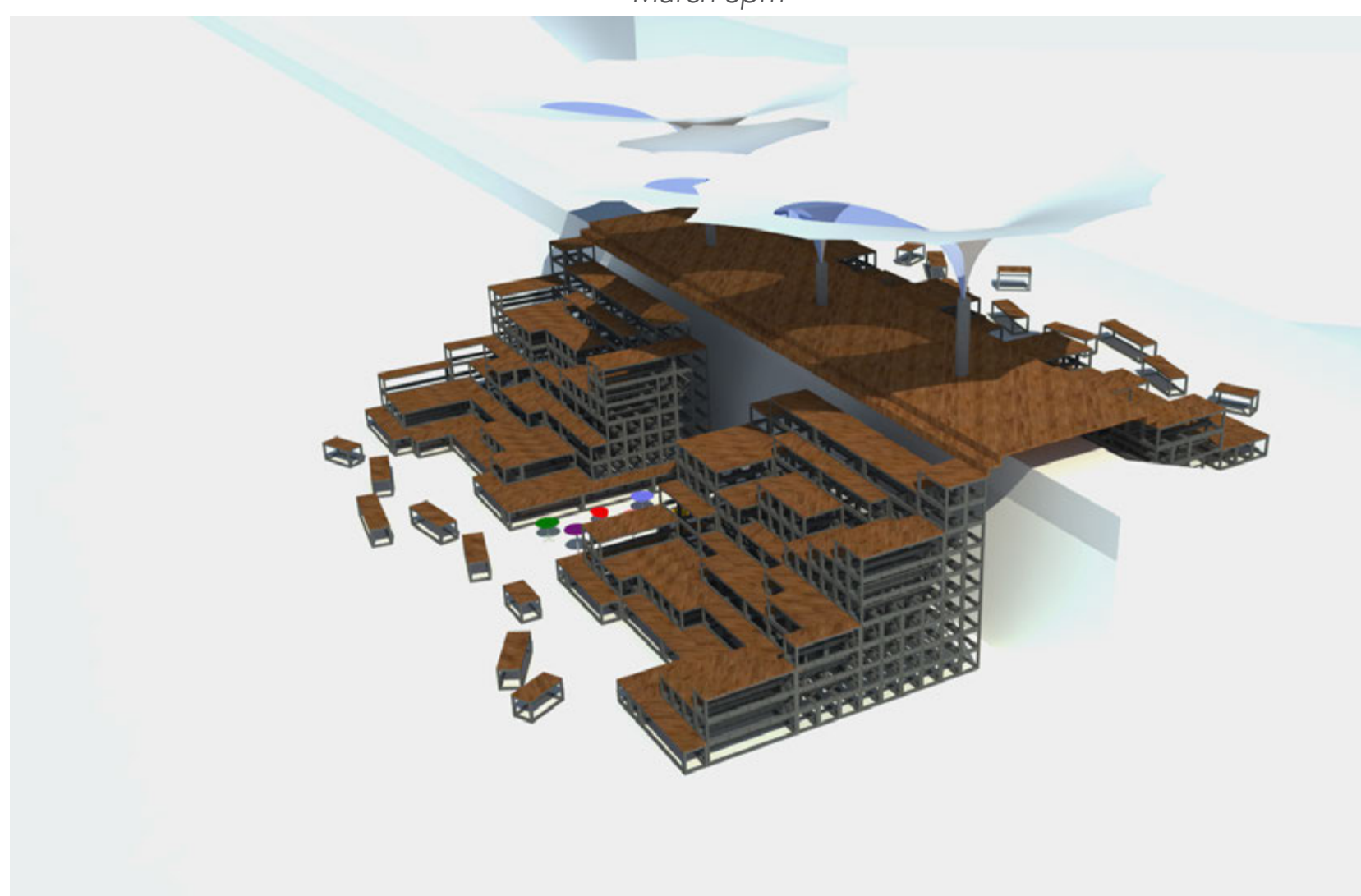
March 12pm



July 9am



March 3pm



July 12pm

