



HEBI

The 2020 Serpentine Pavilion

へび

presented by: Mae Baja, Becca Behrens, Shudan He, Jinjie Li



Serpentine - へ

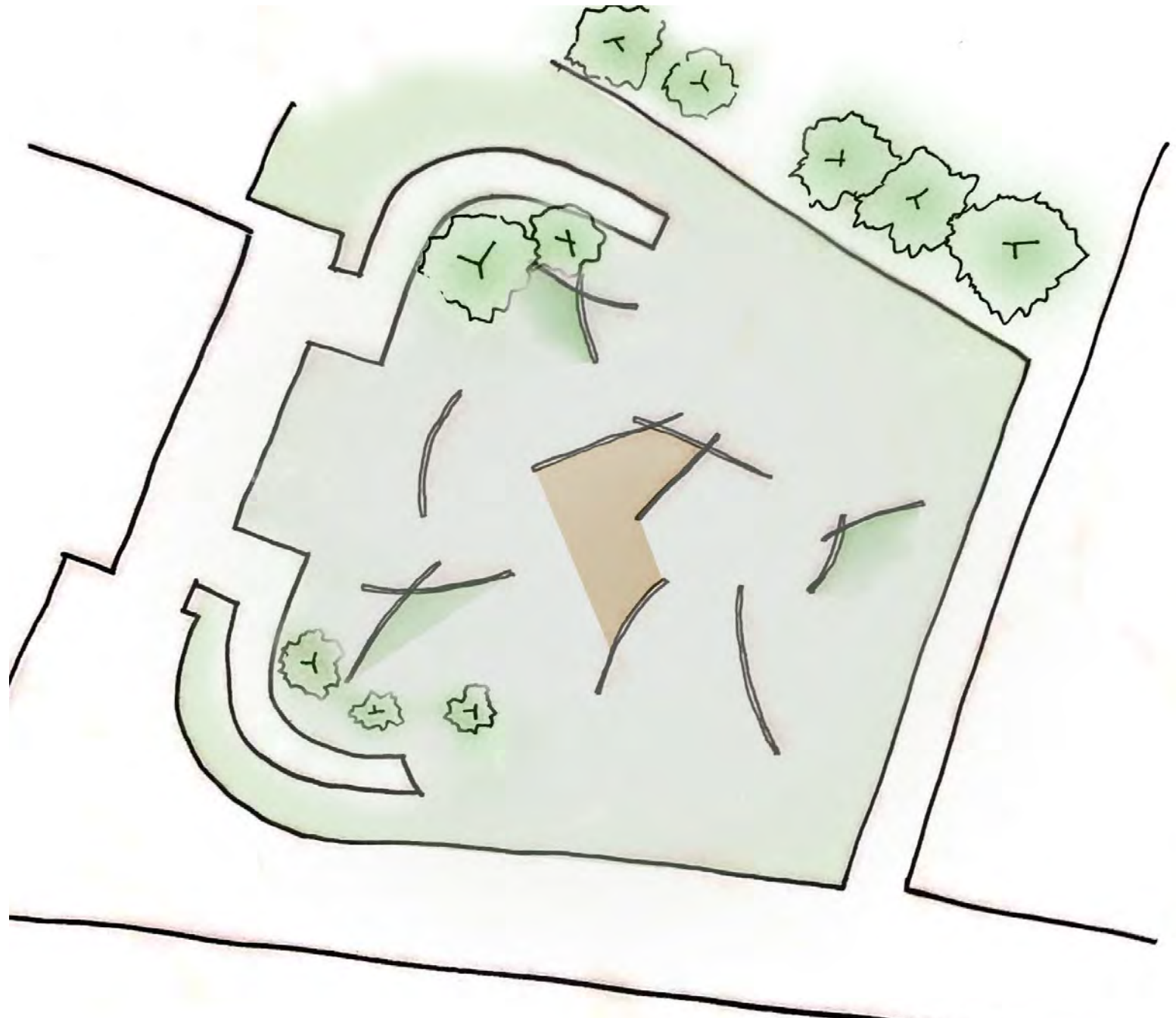
Introduction of the
Serpentine Gallery, an art &
music venue, located in London
Westminster Park, London, UK.

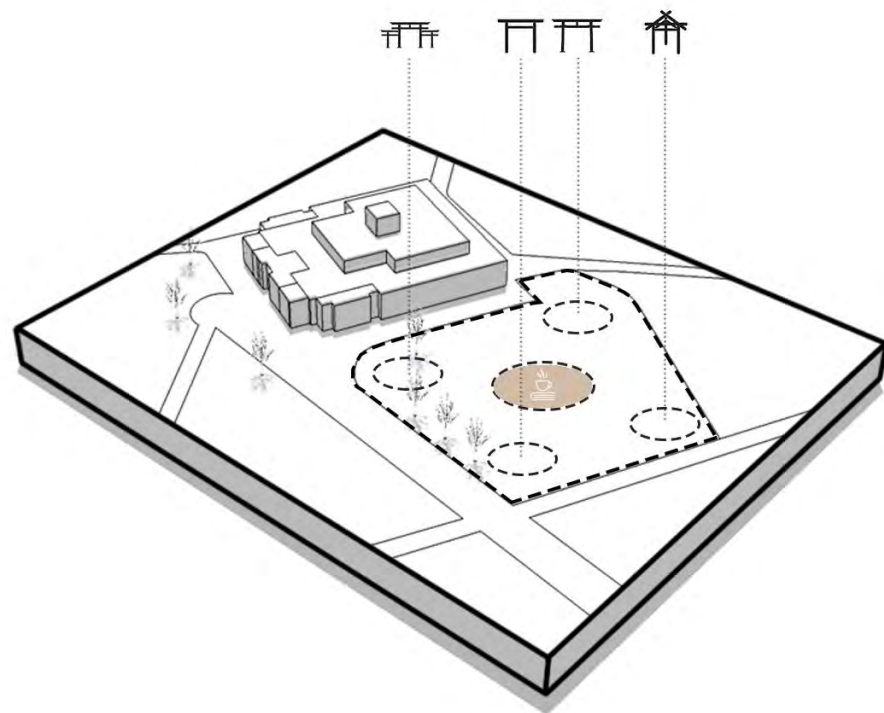
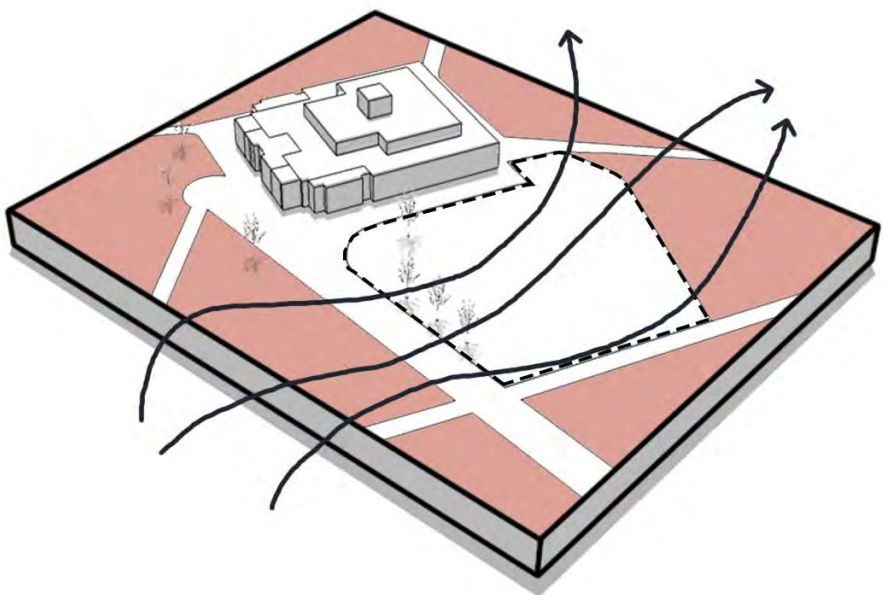
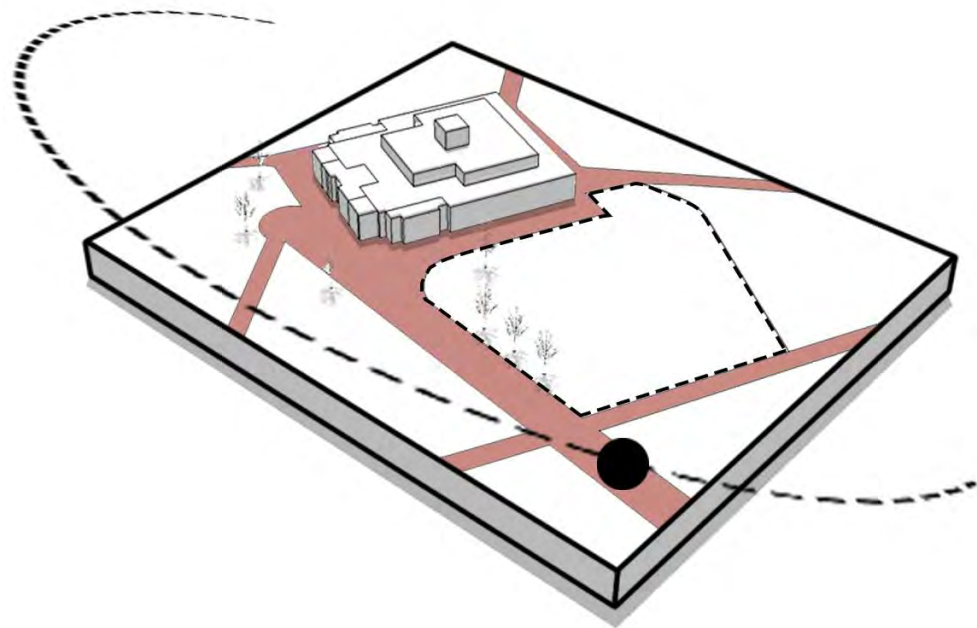
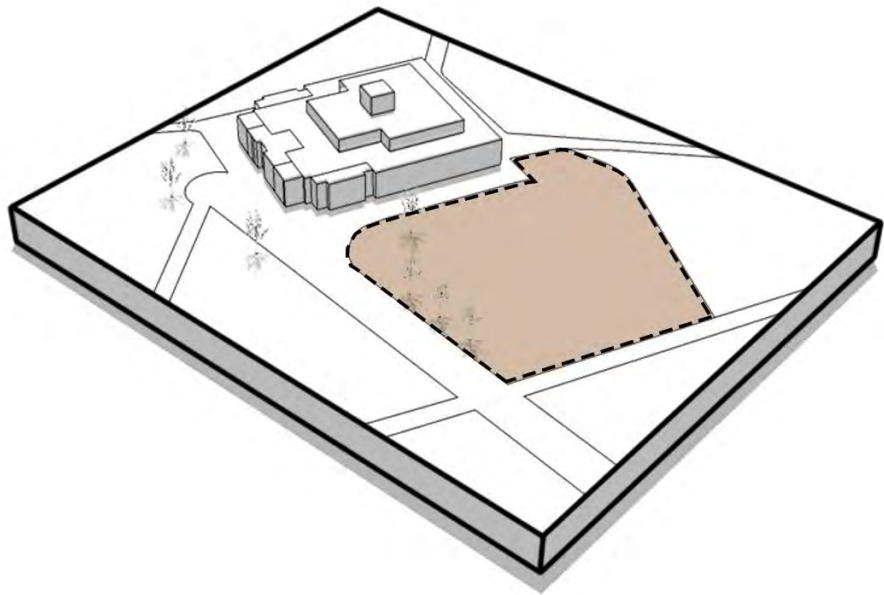
Architectural rendering of the
Serpentine Gallery, an art &
music venue, located in London
Westminster Park, London, UK.
The image shows a man and a woman
looking at their smartphones, and a group
of people standing near a wooden wall.

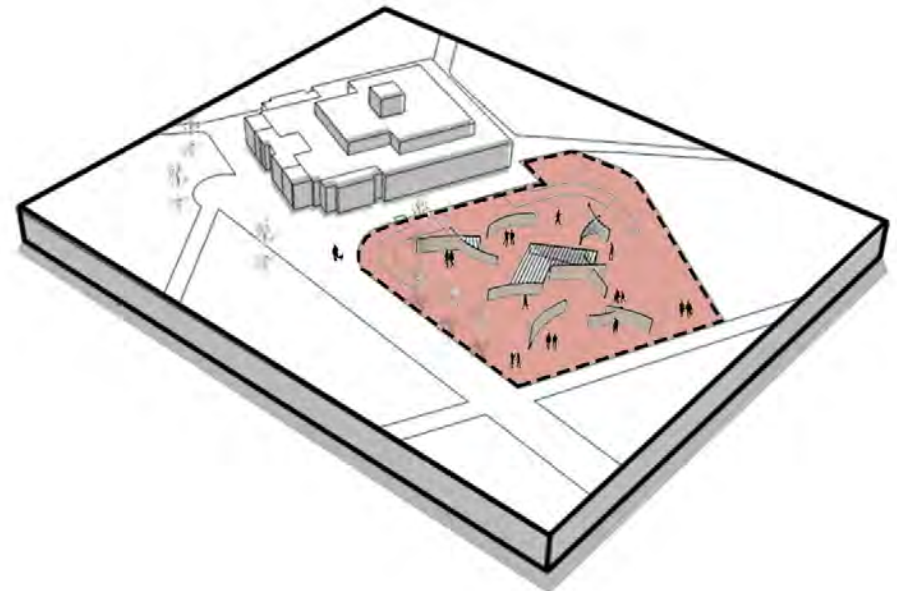
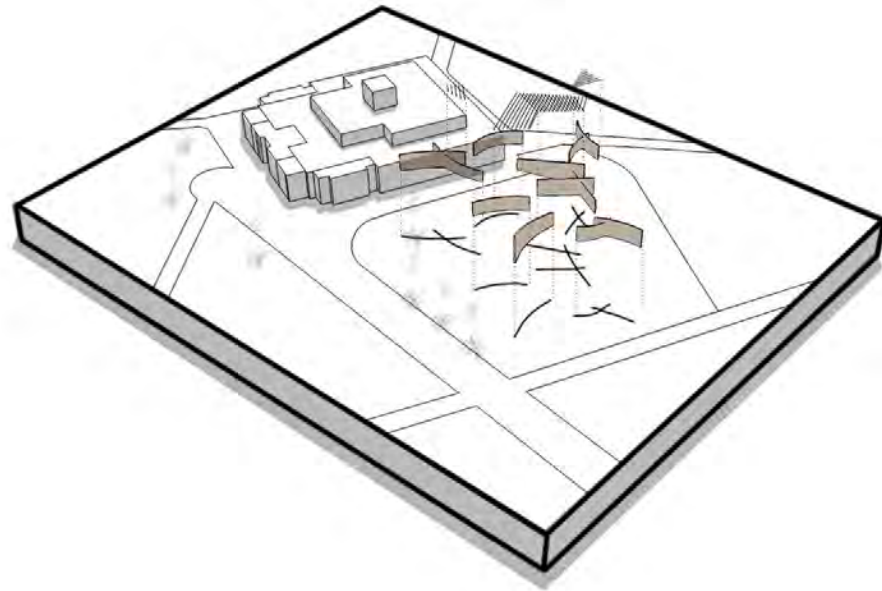
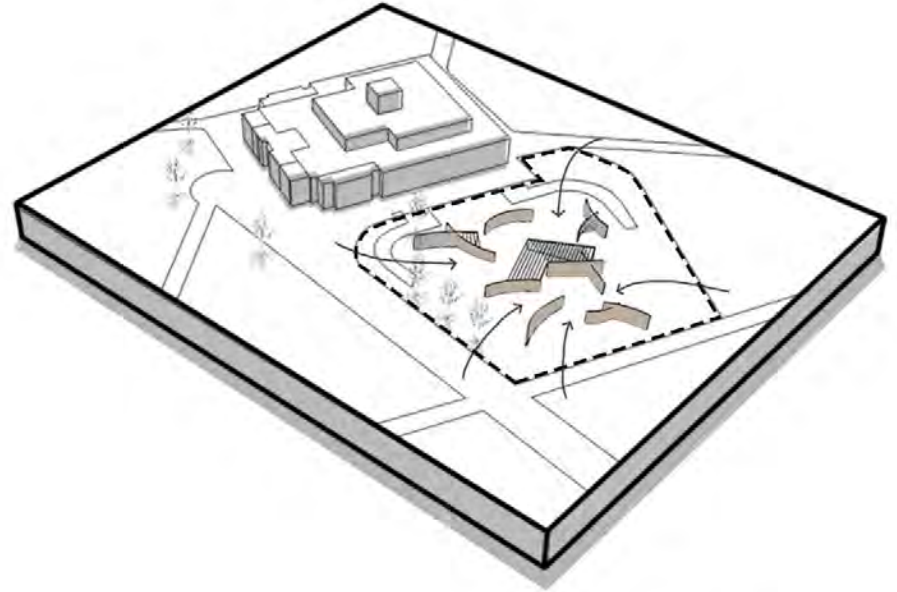
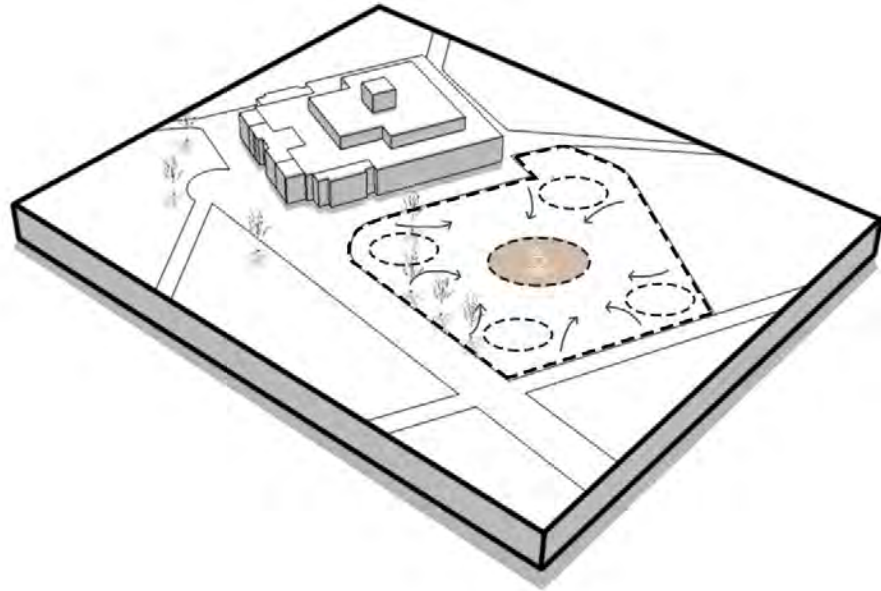
THE SITE PLAN

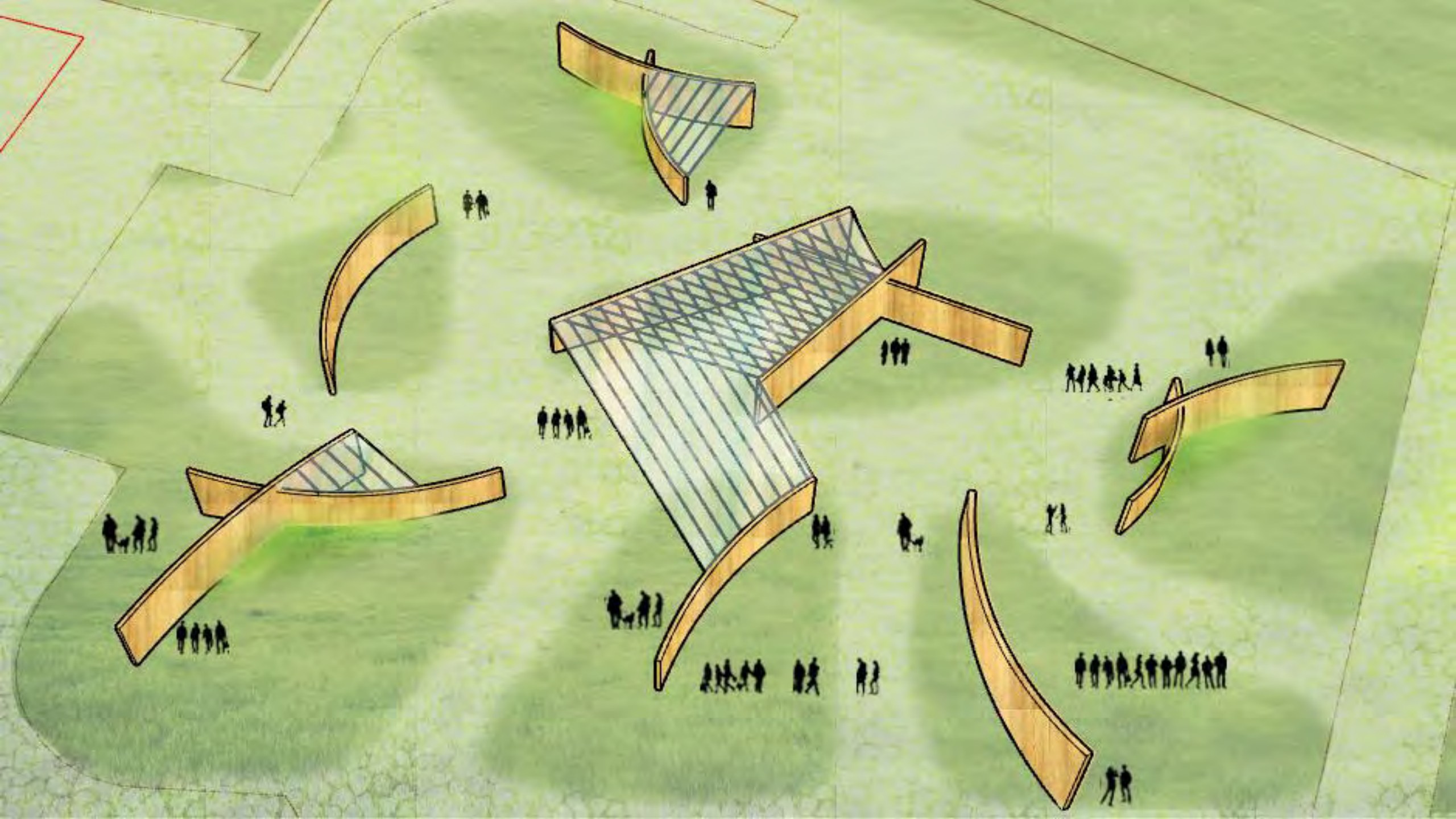
There were three primary driving forces in the layout and design of the Hebi Pavilion: the circulation of people, the flow of wind, and the sun pattern/ resulting shadows.

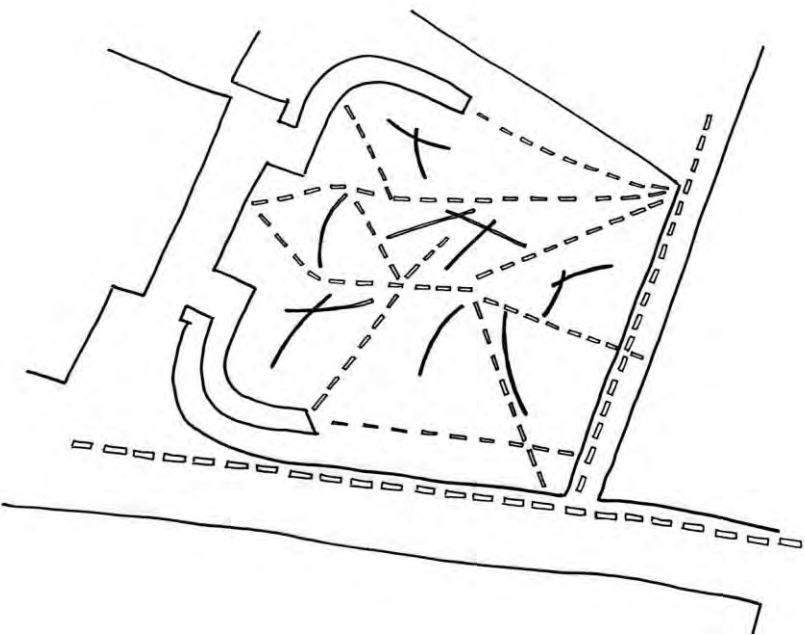
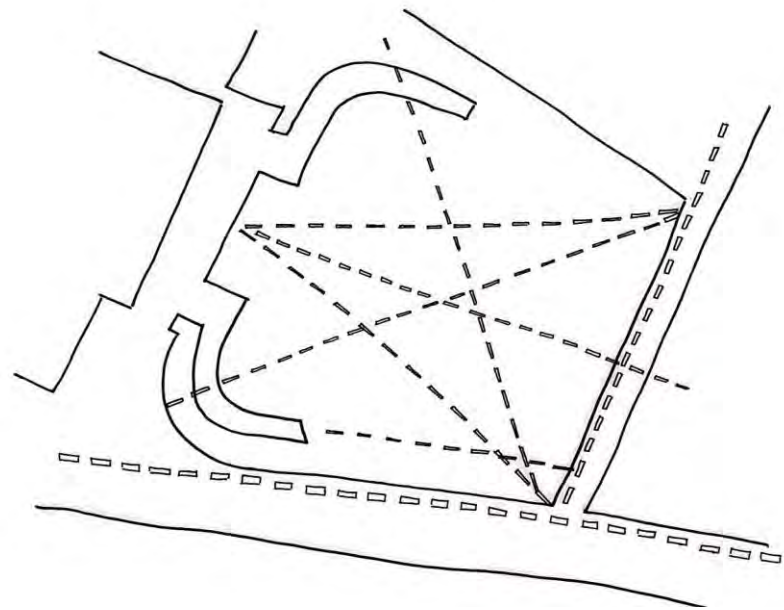
The goal of the design was to integrate the structures into the site so that they do not disrupt the typical flow but rather add to it, creating places of refuge along established paths.









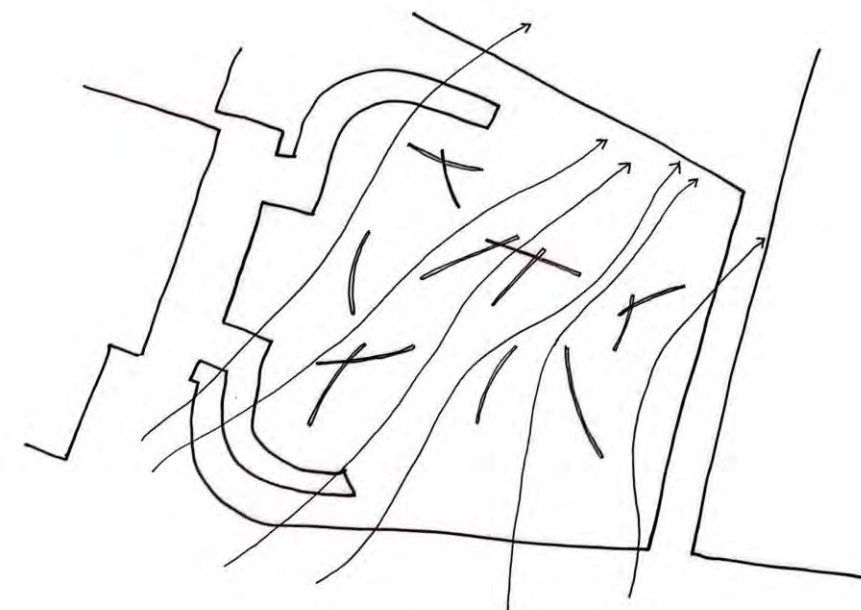
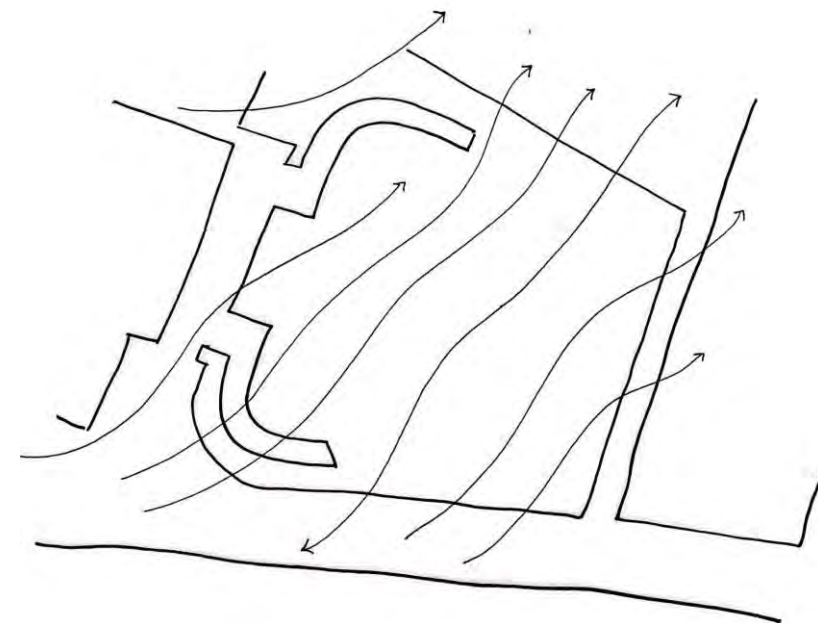


CIRCULATION

When we looked at the circulation, we noticed there were several inherent paths that occur on the site. We aimed to work with those natural flows of people on the site while creating interventions that might cause a person to stop and explore their surroundings.

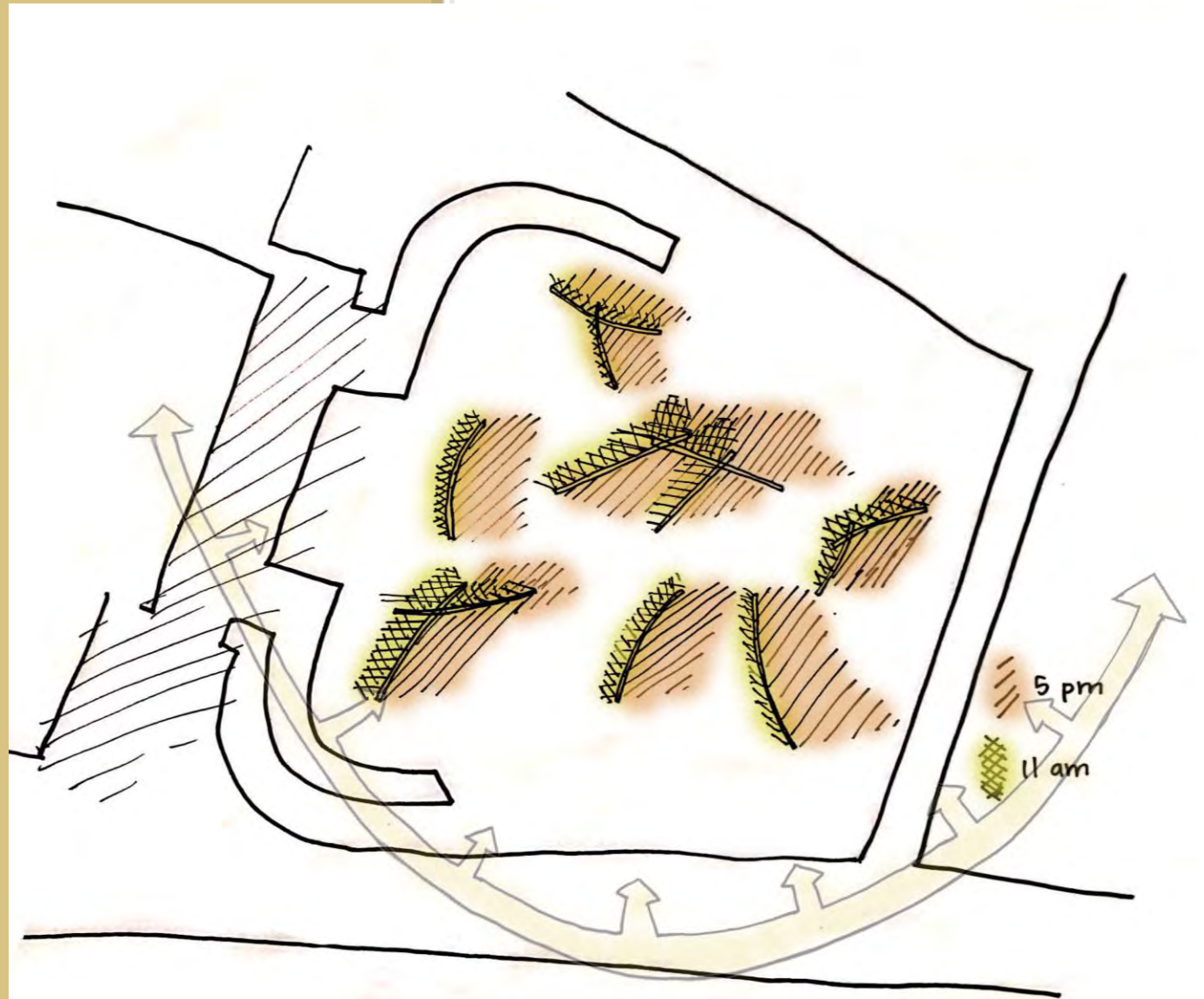
WIND FLOW

Similar to the treatment of the circulation of people, we wanted to embrace the way in which wind crosses the site and utilize it help passively create a comfortable environment within the pavilion.

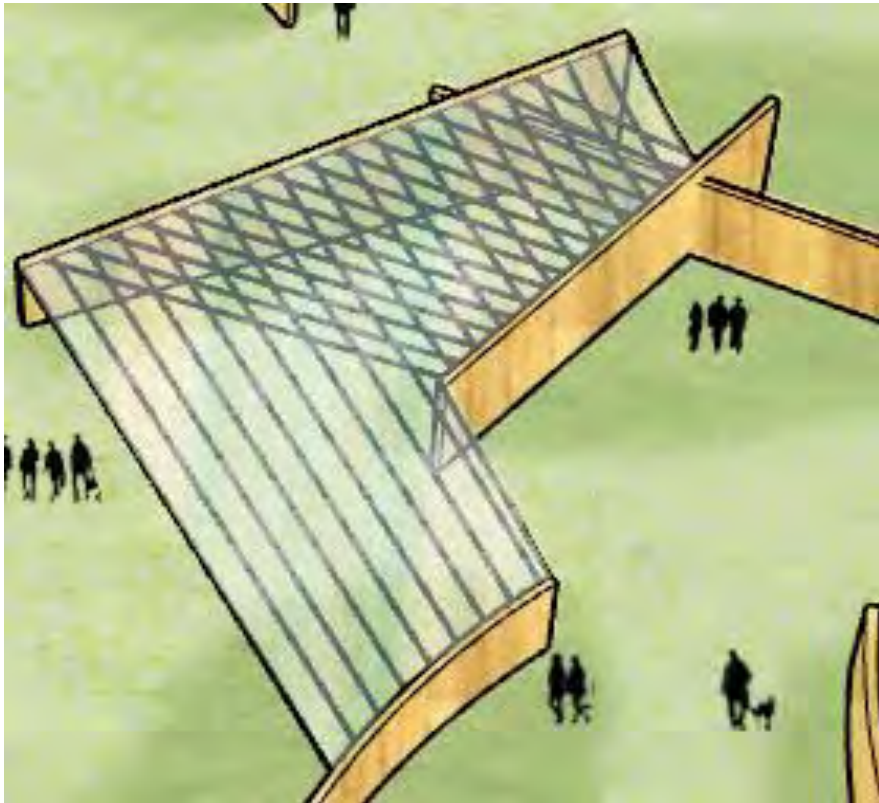


SUNLIGHT

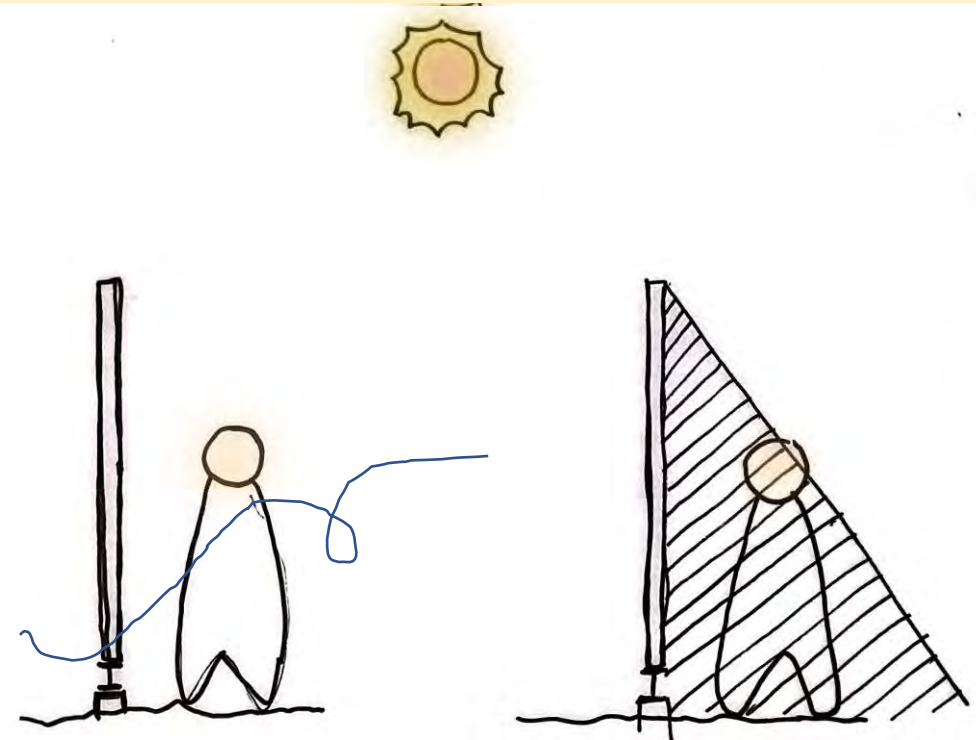
The third factor we considered in the design was sunlight, utilizing what we can on the sunny days that London sees in the summers. In order to do this, the shapes are oriented to create the most shade during the hottest parts of the day, and less shade during late morning and mid-day when the sun's warmth would be more welcome.



microclimates



Within a small space, we wanted to create spaces to accommodate all people in a variety of weather conditions that might include areas that are any combination of sun/shady, windy/calm, and public/refuge areas.



Cafe

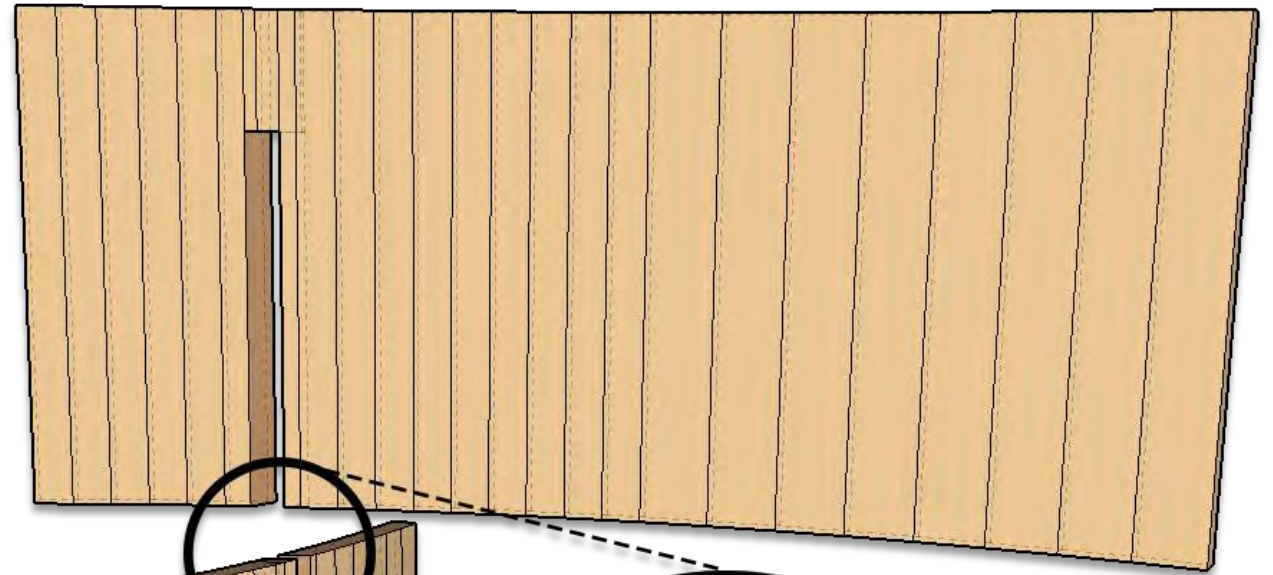
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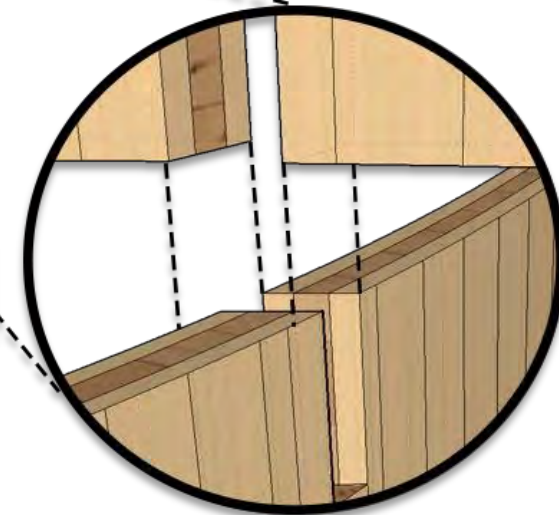
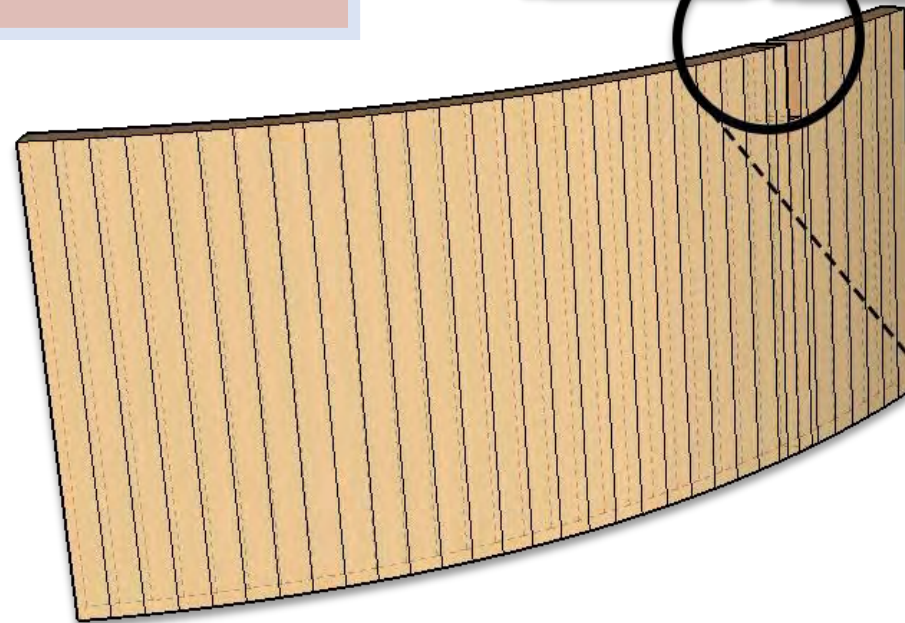
THE DETAILS

The CLT panels are joined together by using tongue and groove joints. This will create a seamless connection between two or three panels.

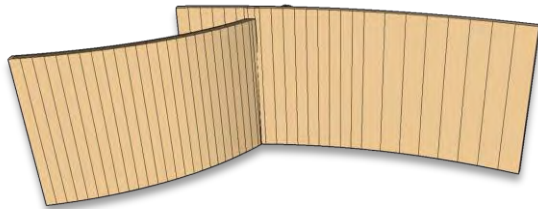
Detail A - CLT panels connection detail



CLT panels

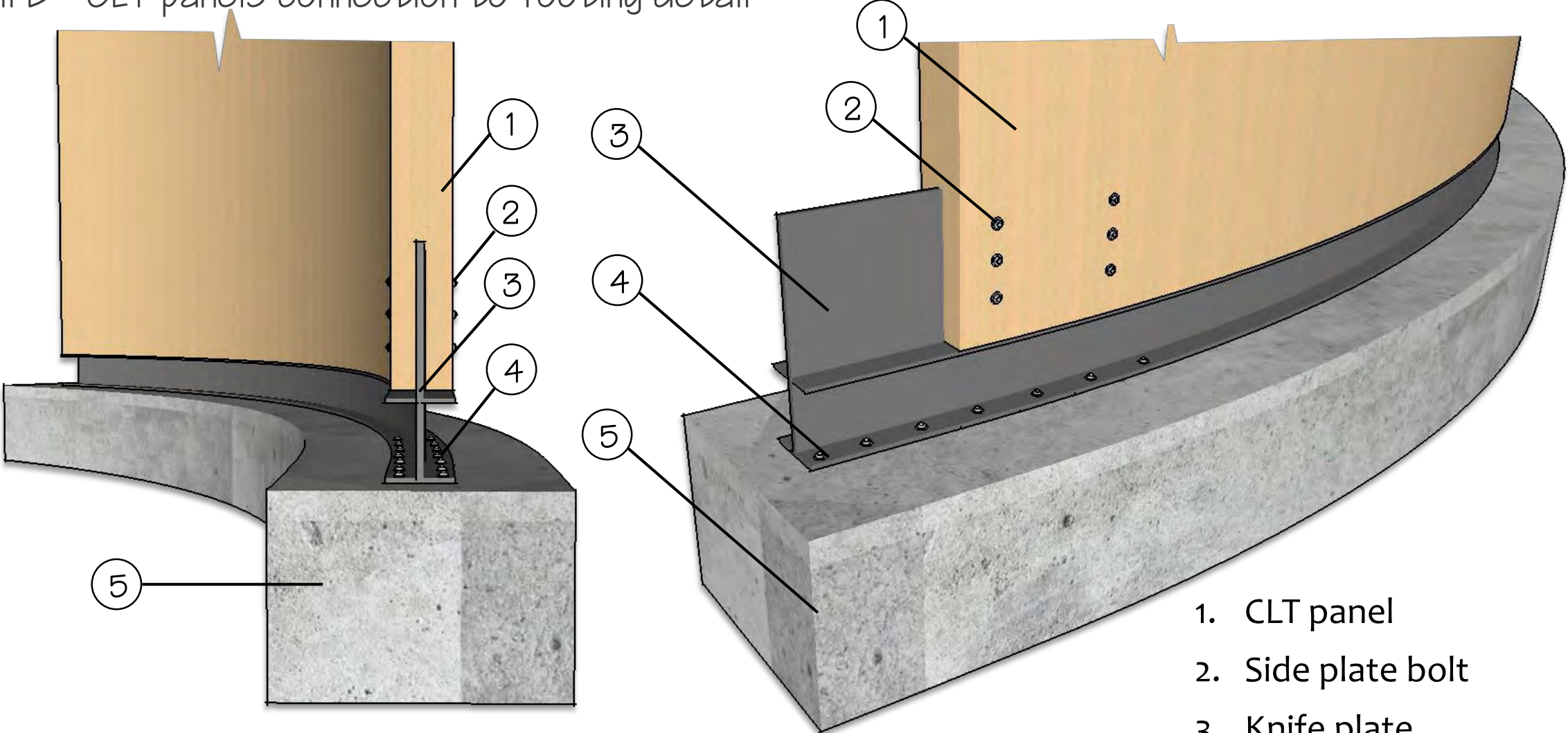


Tongue and groove joint



Connected panels

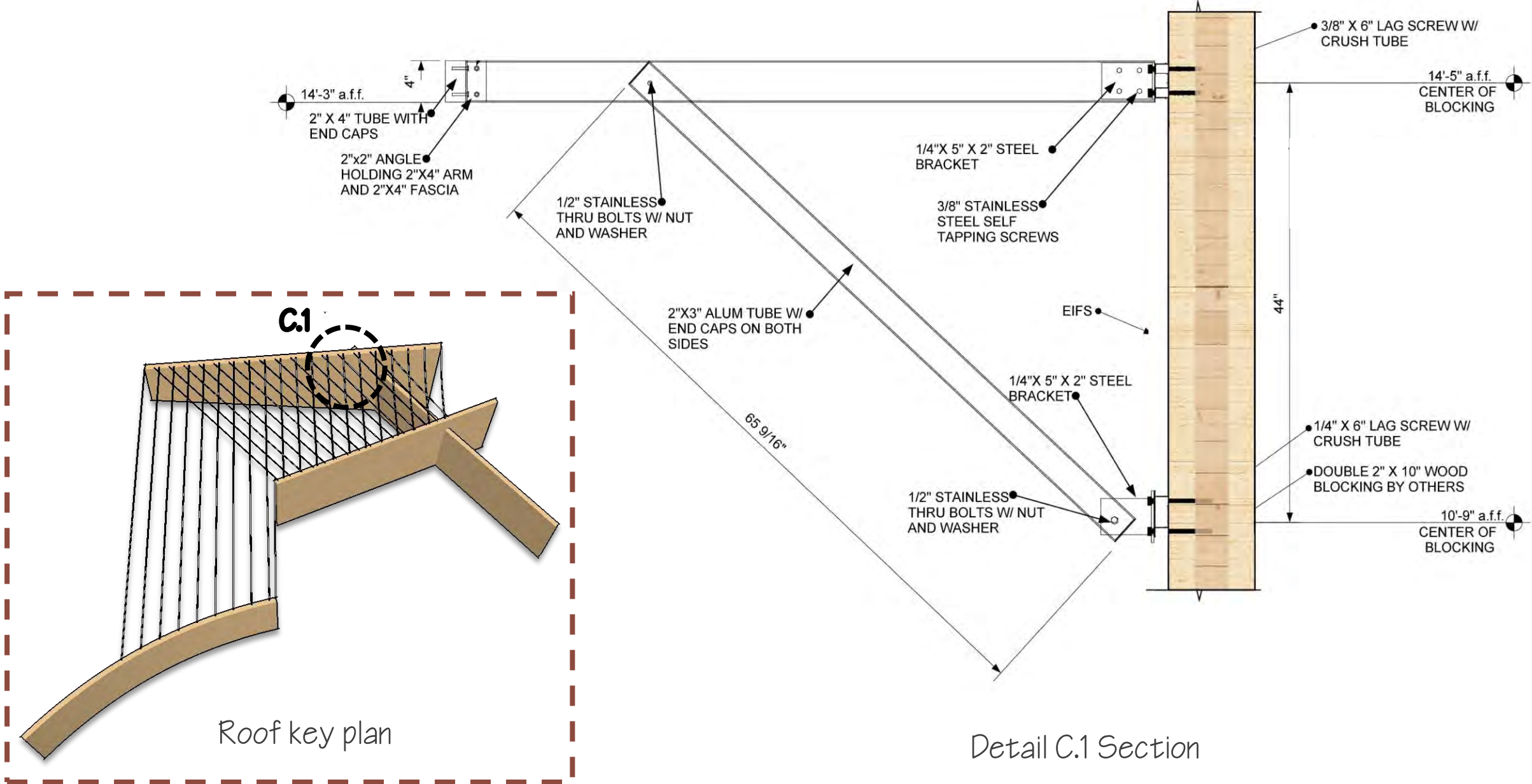
Detail B - CLT panels connection to footing detail



- 1. CLT panel
- 2. Side plate bolt
- 3. Knife plate
- 4. Bottom plate bolt
- 5. Concrete wall footing

Concept 1

Detail C - CLT panels connection to wood trellis



Thank you



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Information of the
Serpentine gallery, art and
design, open to all in
London. Serpentine Art
Centre, Serpentine Galleries,
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