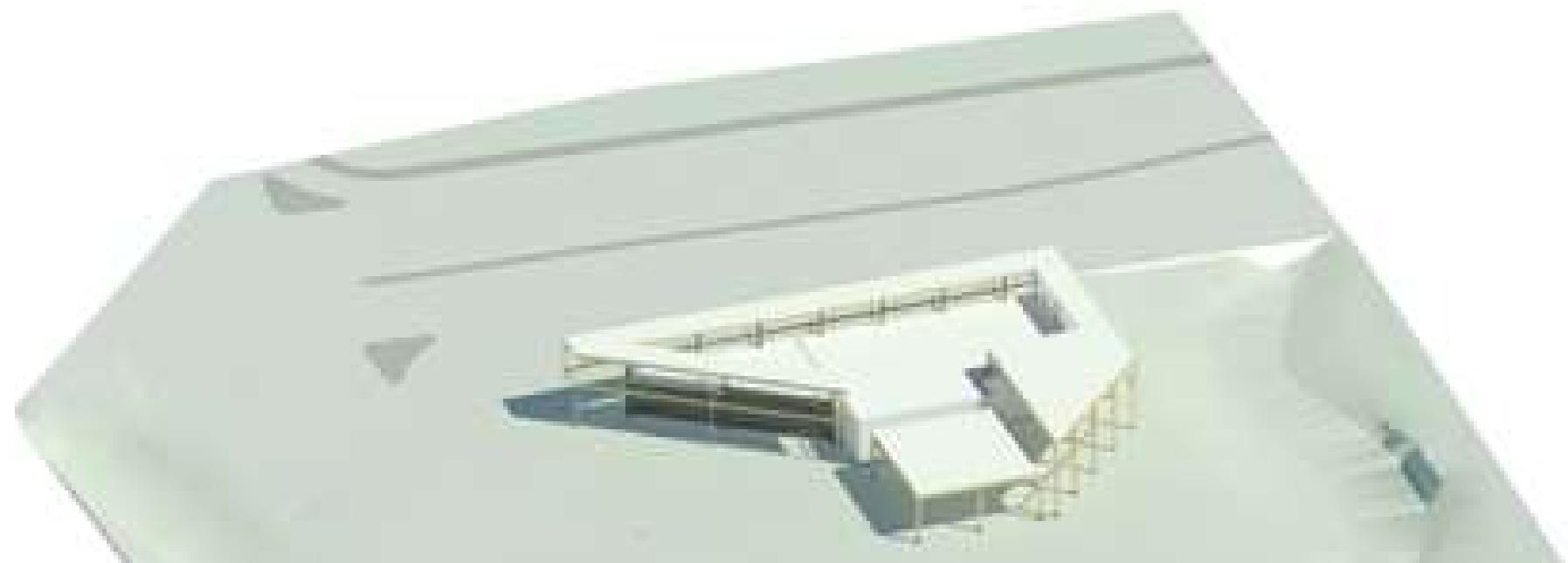
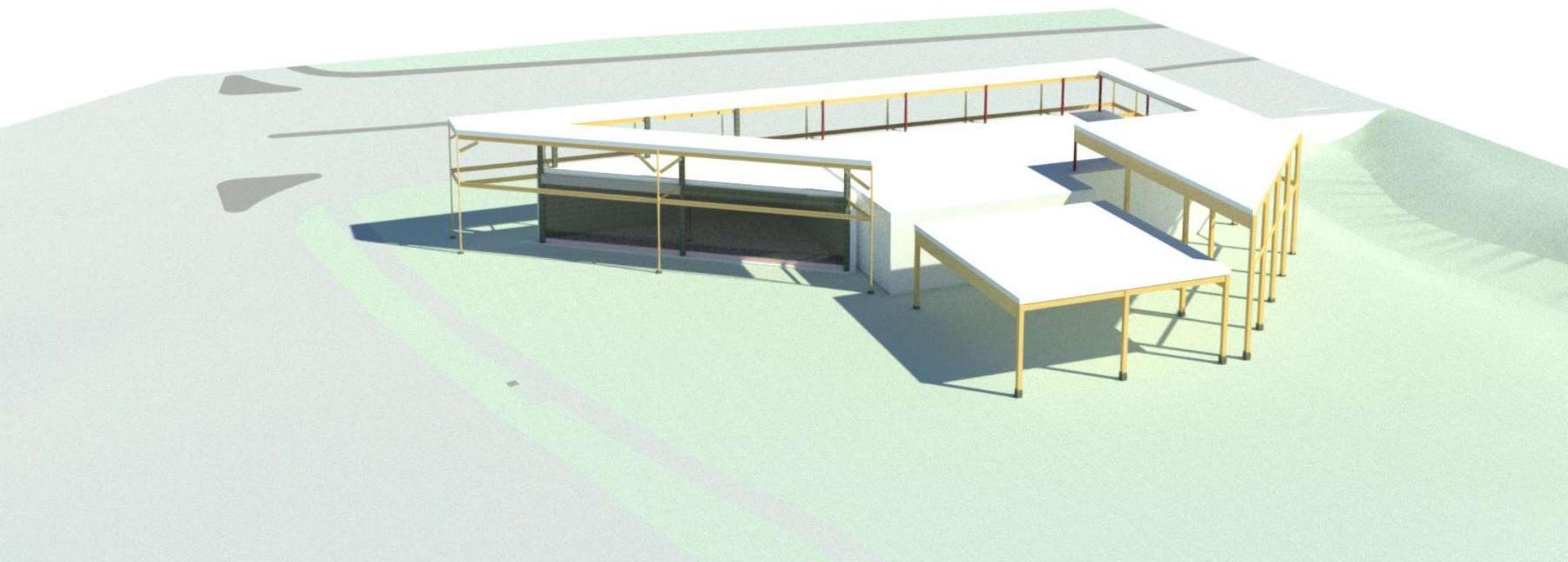


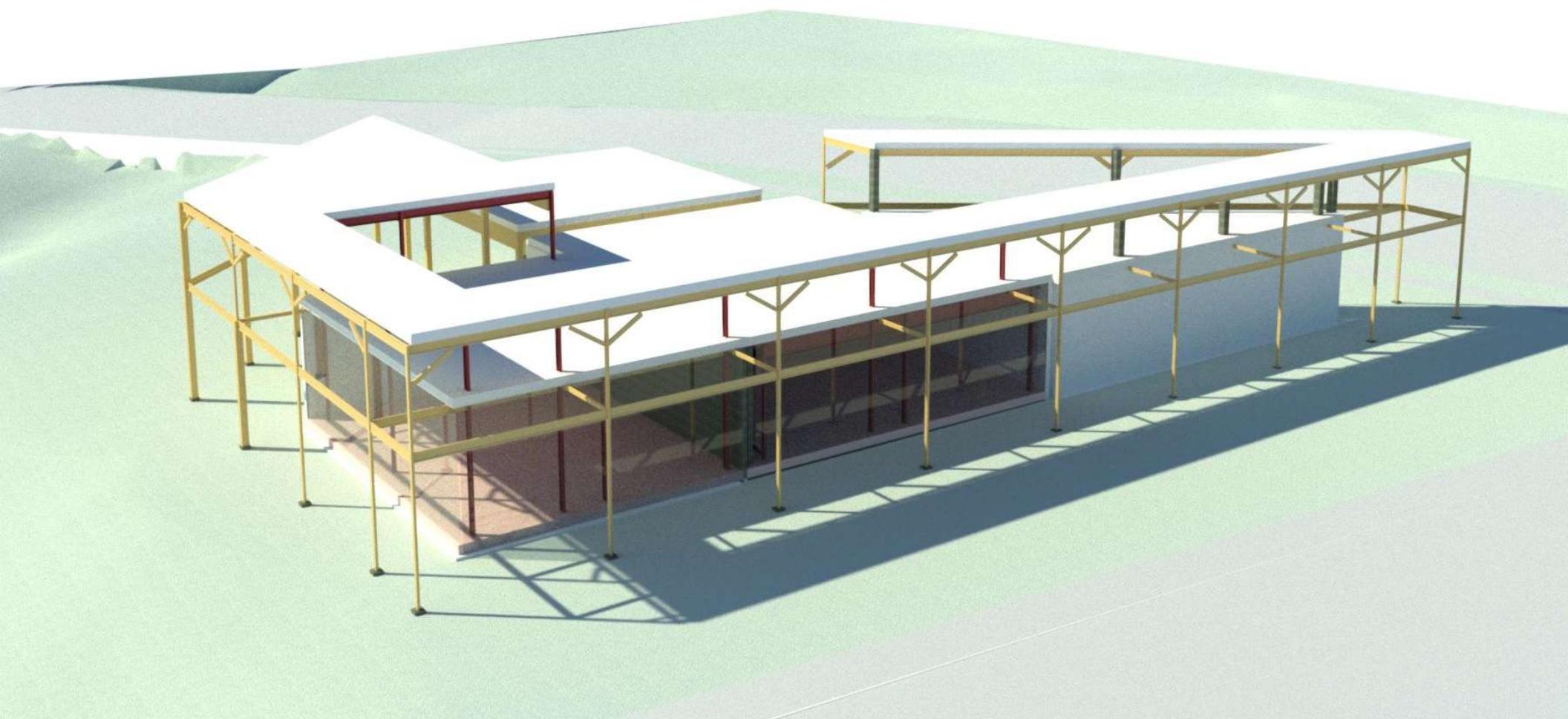
# Campus Cafe

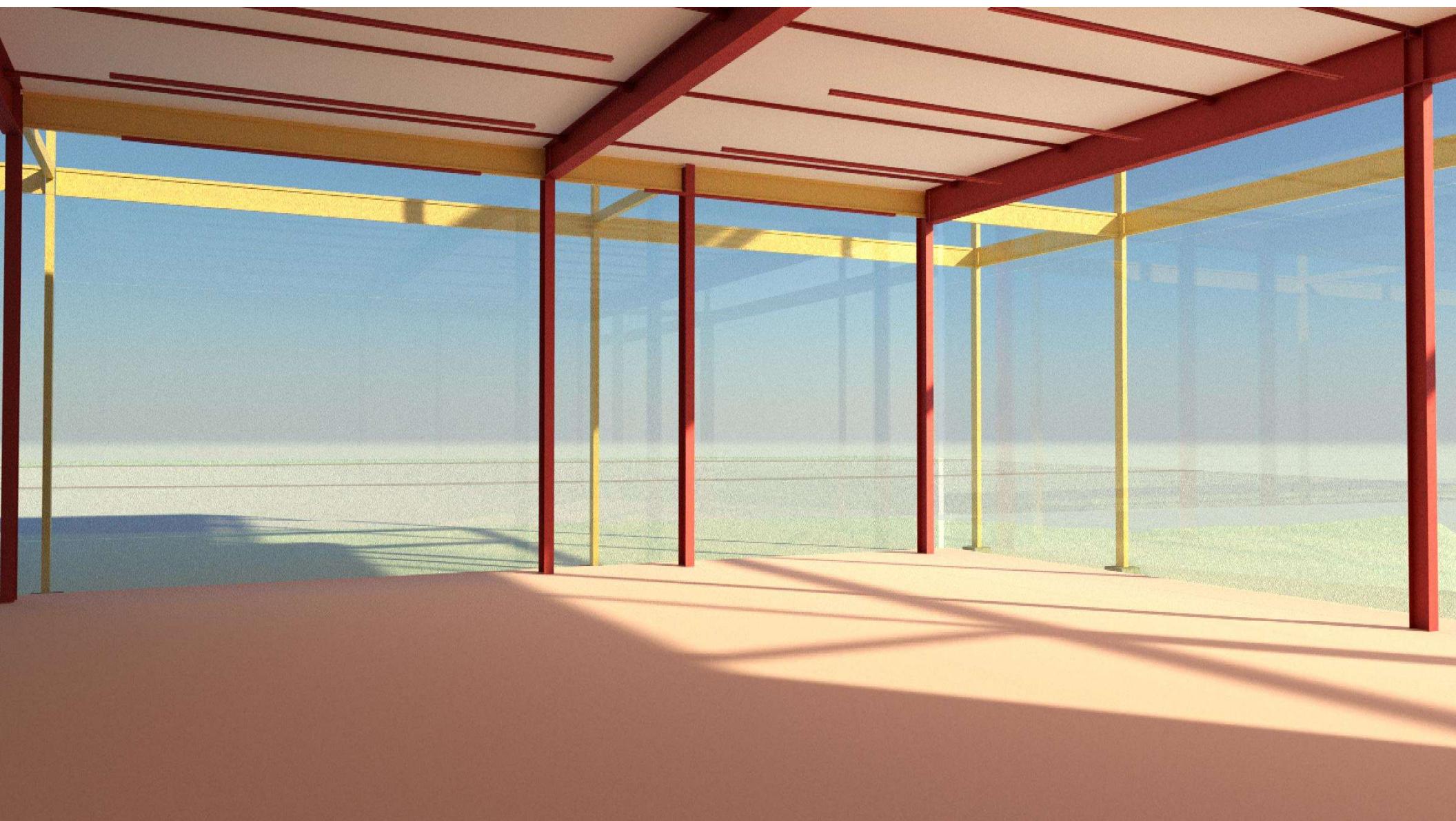
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Edward Mbata





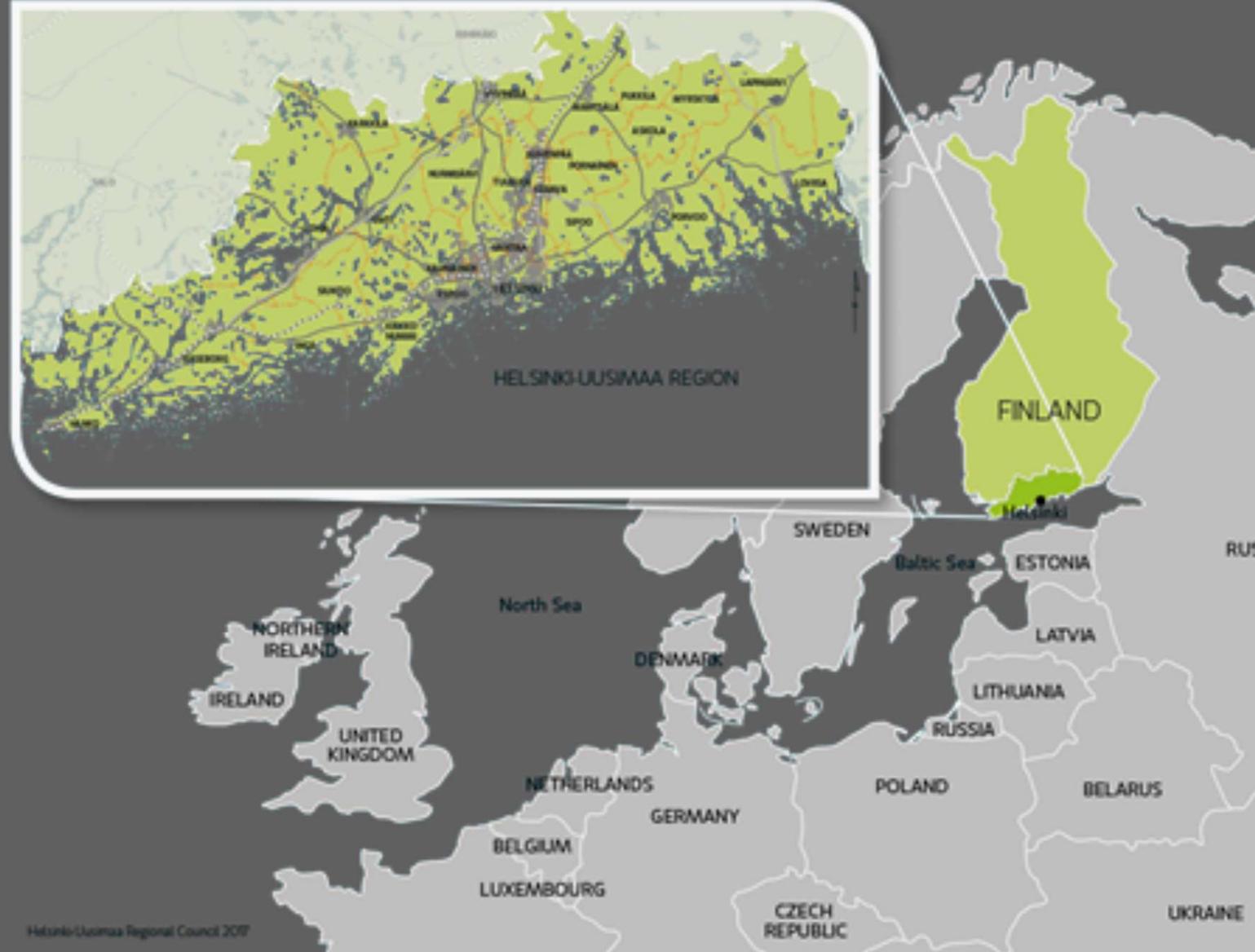




# Helsinki, Finland

1

This cafe was designed to be built in  
Helsinki Finland



Helsinki-Uusimaa Regional Council 2007

2

## Helsinki, Finland

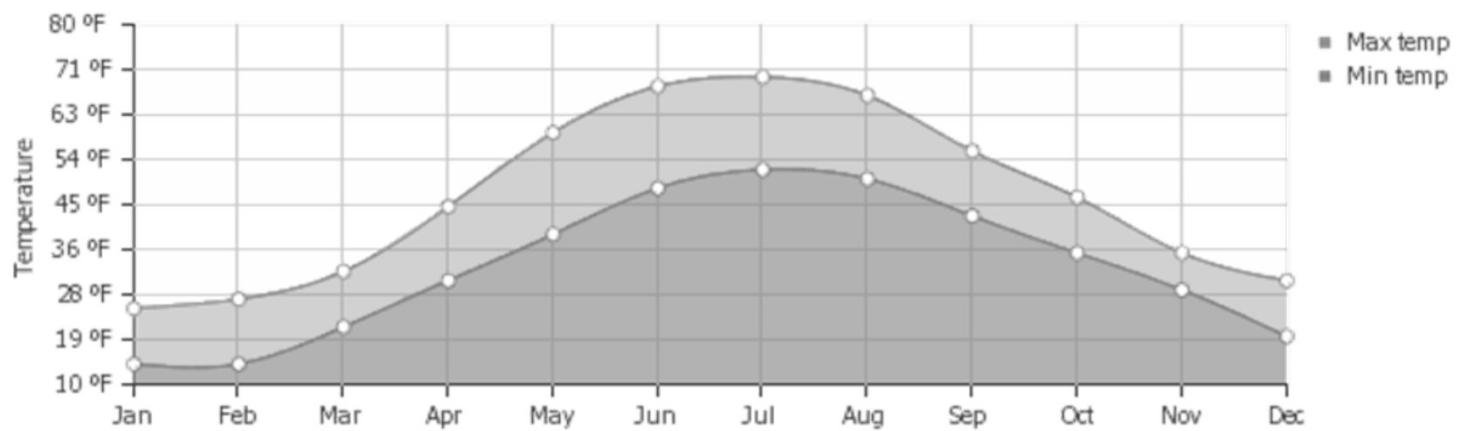


# Climate

1

Helsinki reaches a max of 71F in Jul

And a min of 10F in Jul

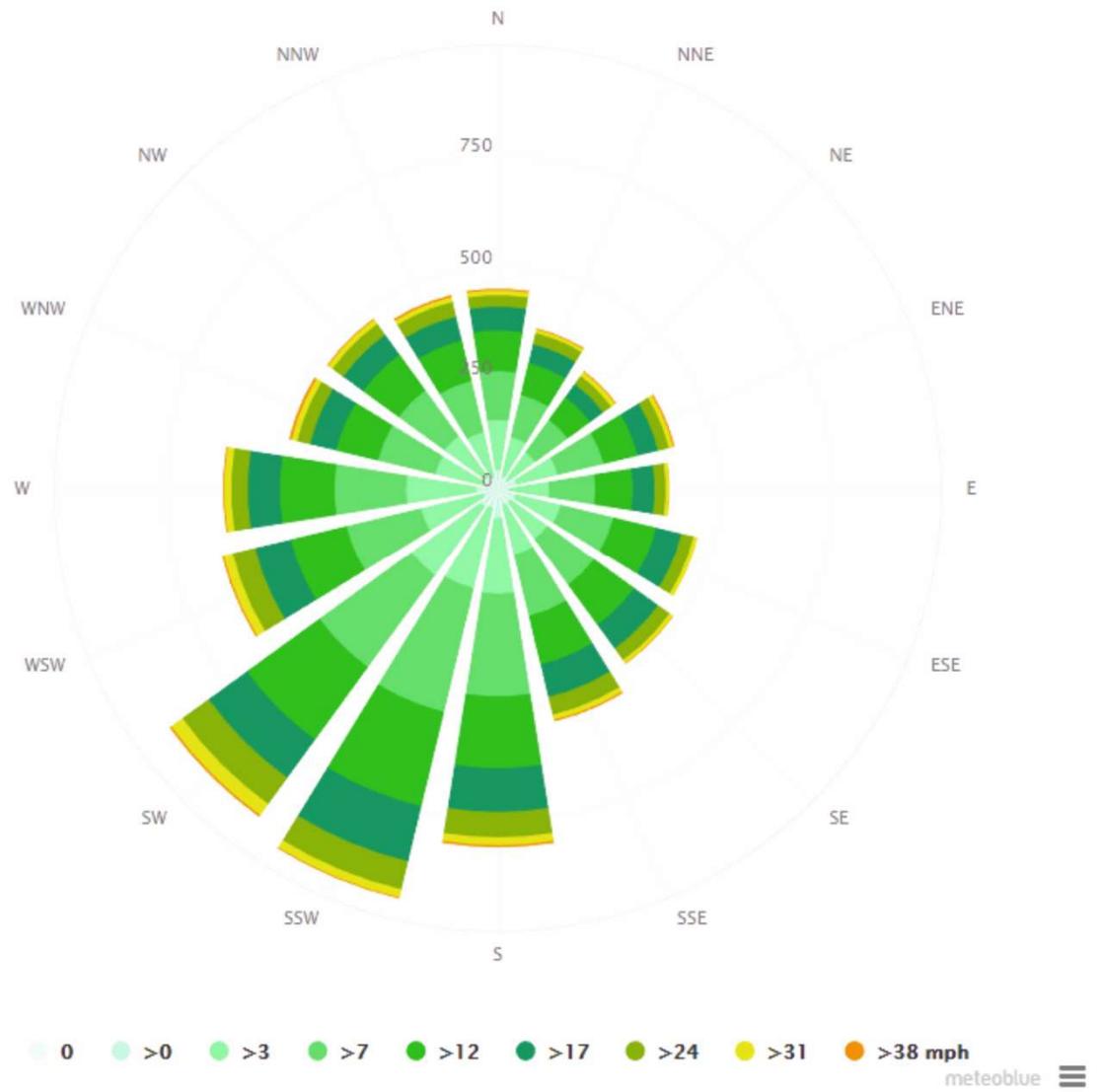


This wind rose shows wind strength  
hours per year blown in a given  
direction

Wind generally Blows from the SW  
direction

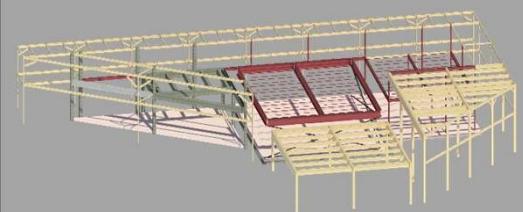
1

## Lateral Stability



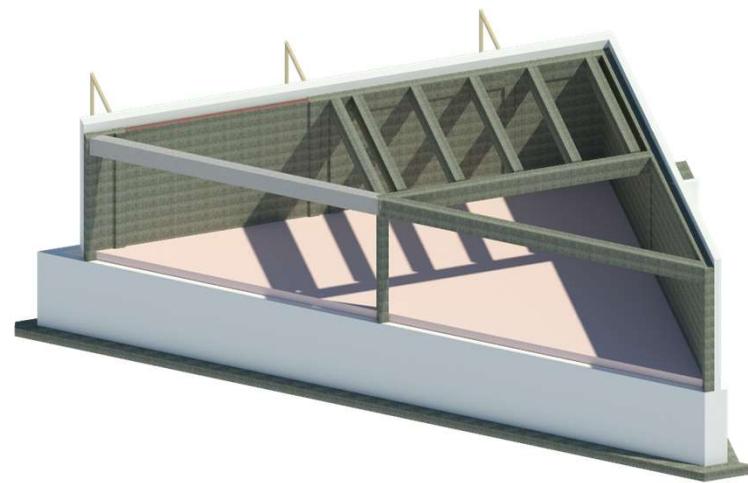
Concrete Structures

Shear walls used to reduce strong wind loads



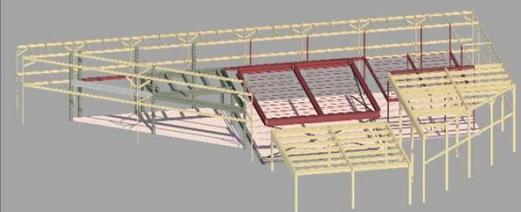
2

## Lateral Stability



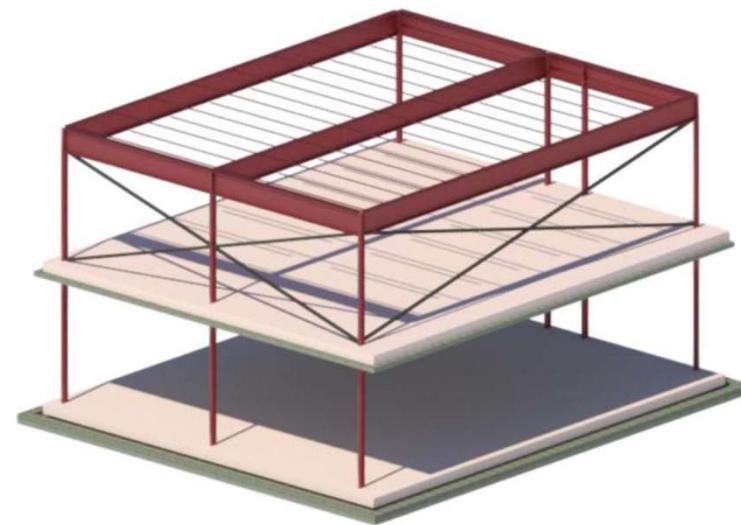
Steel Lateral System

Lateral Cross Bracing for used to reduce  
wind loads



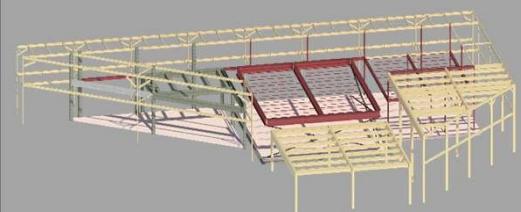
3

## Lateral Stability



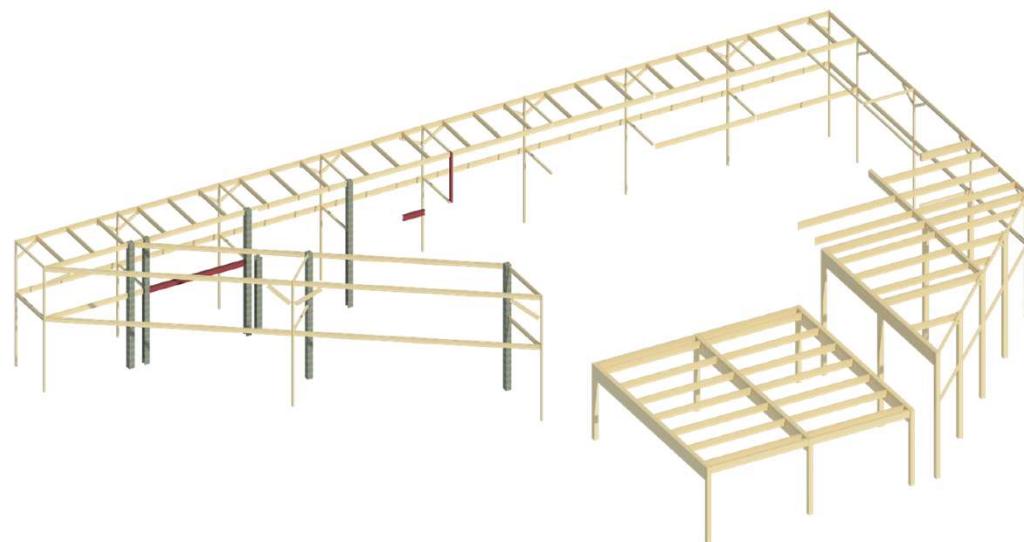
Wood Lateral System

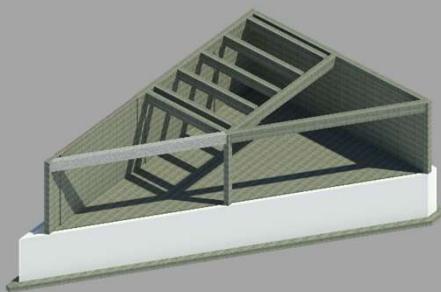
Wood Knee Bracing used to reduce  
loads



4

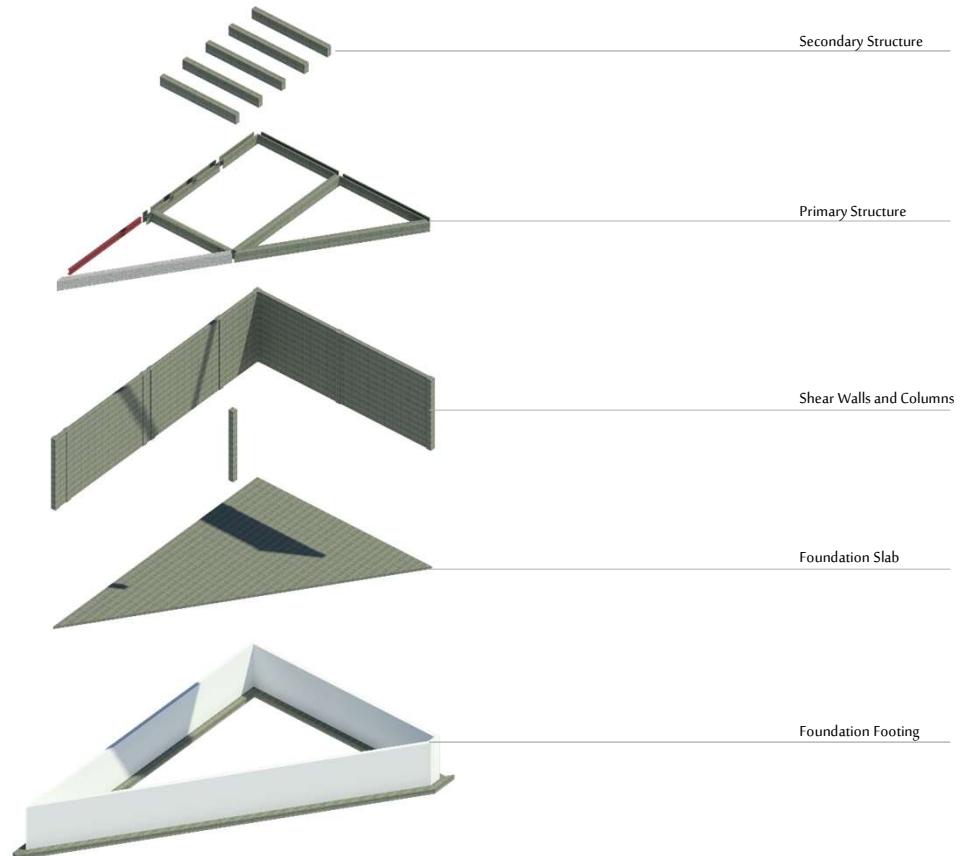
## Lateral Stability





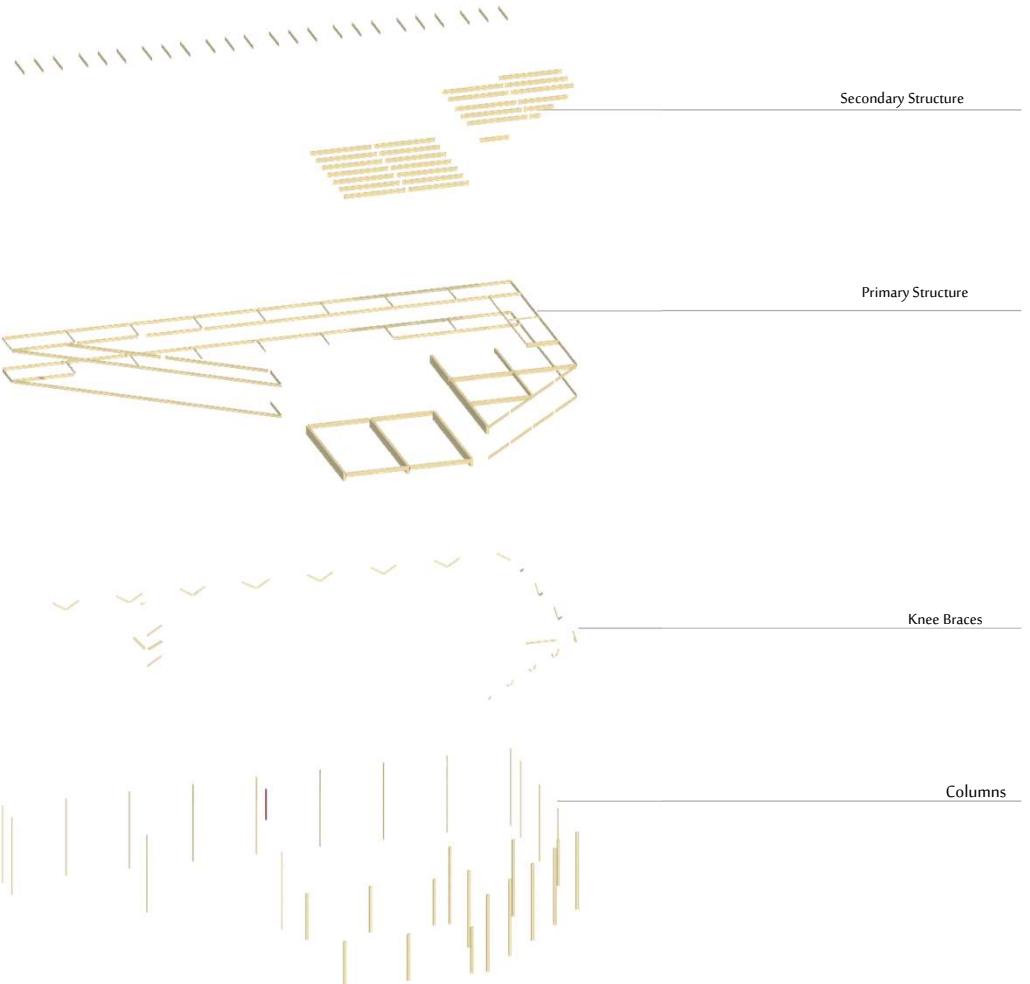
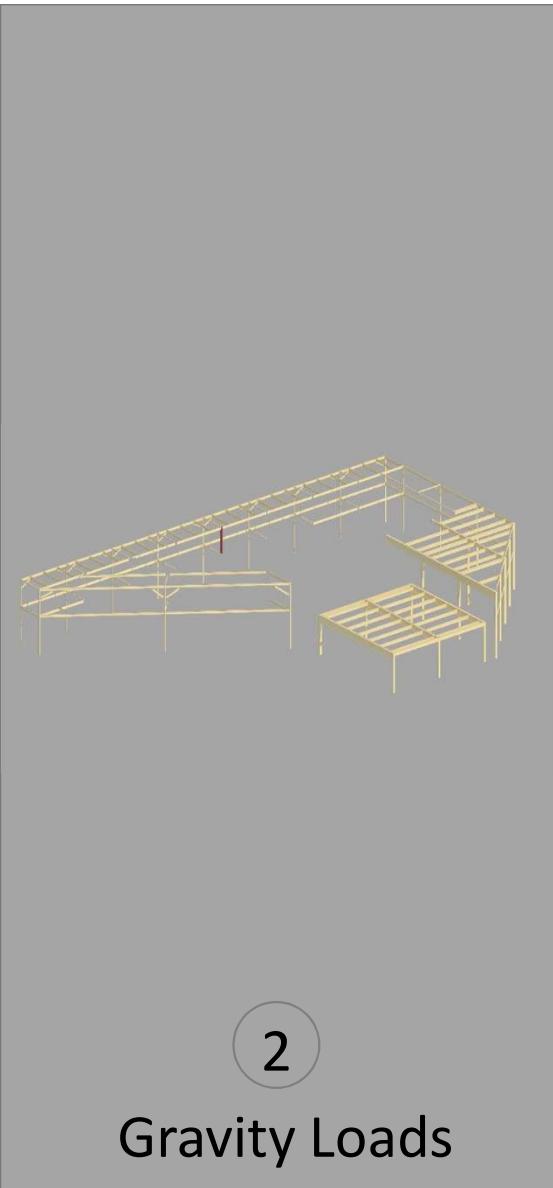
1

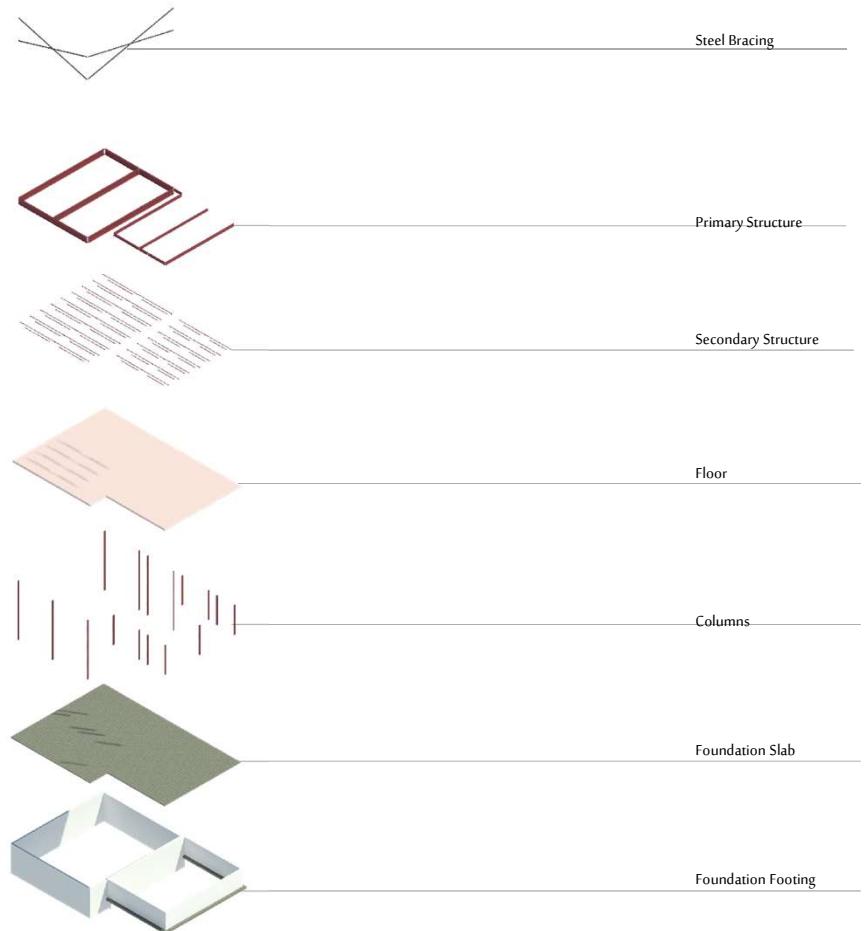
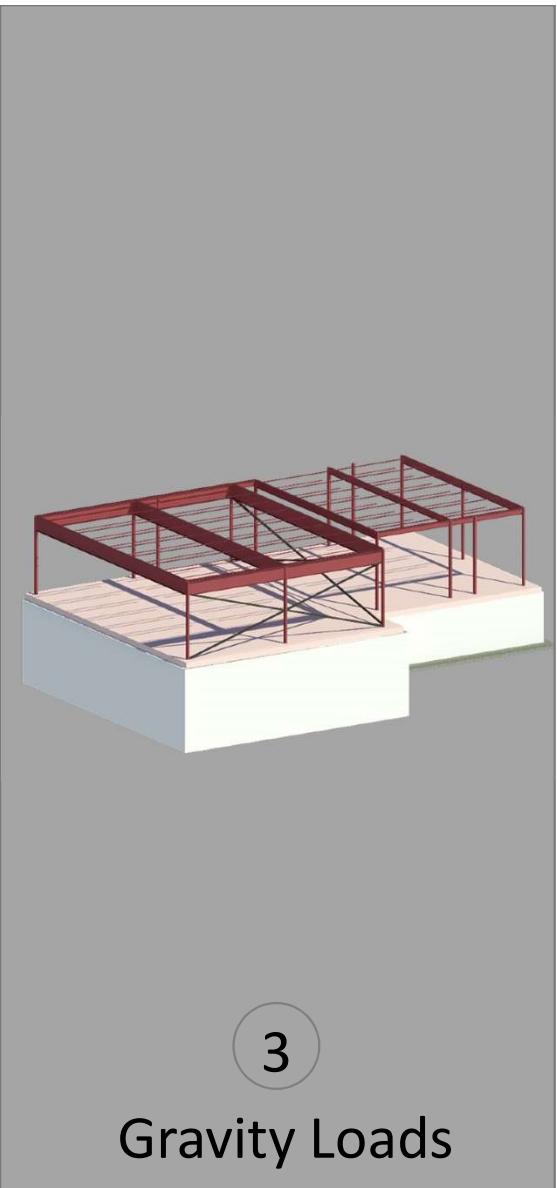
## Gravity Loads

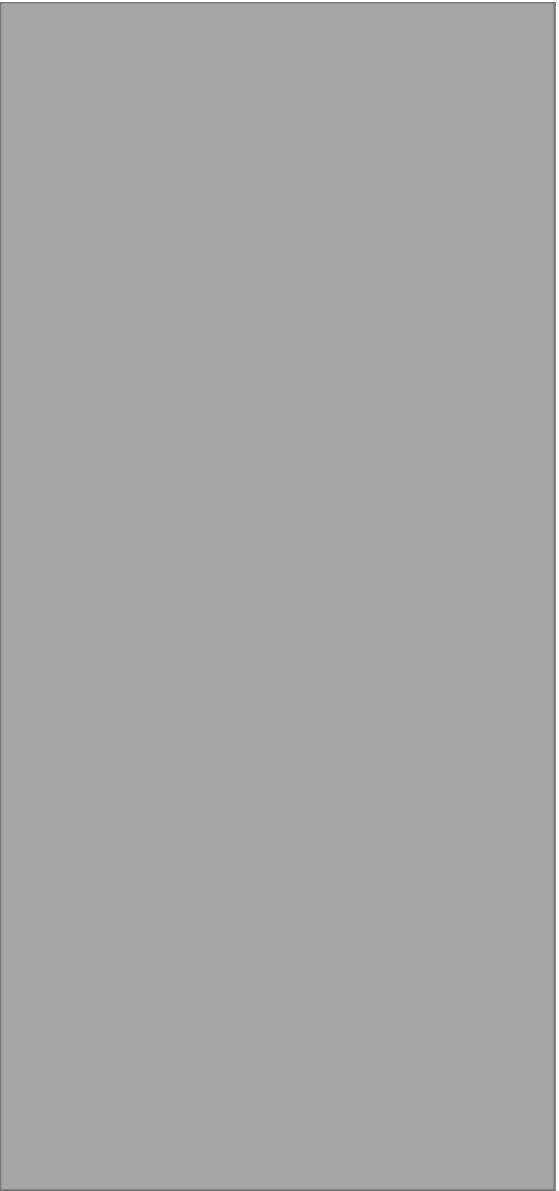


2

## Gravity Loads



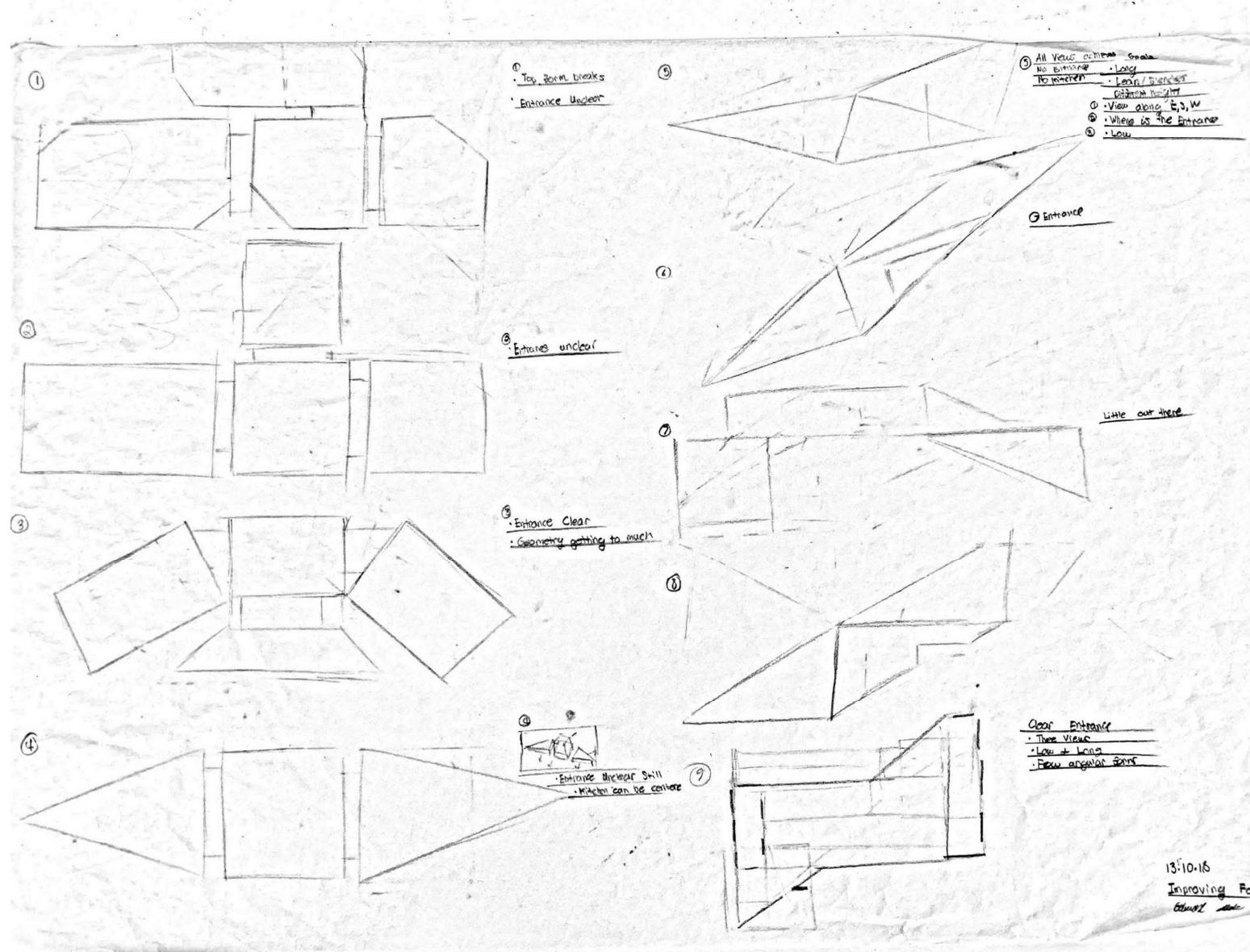




Sketches

# 3 Sketches

## Massing



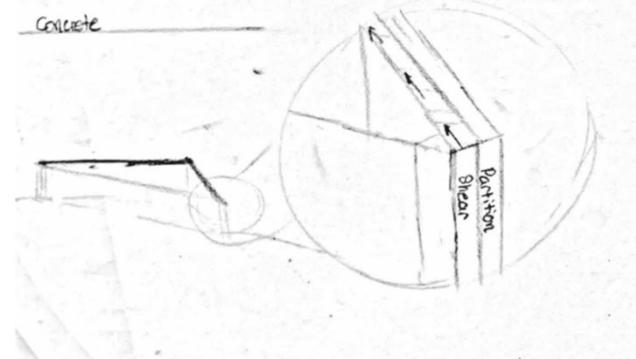
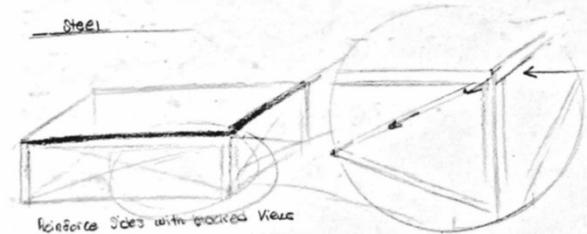
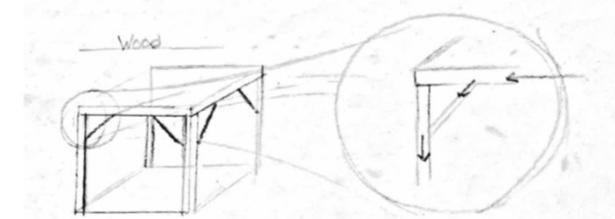
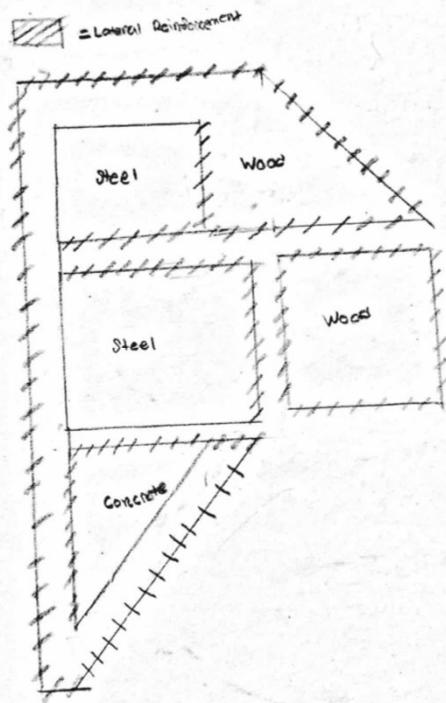
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## Sketches

### Lateral Stability

Determine where to reinforce buildings to not block windows

Sketches detailing reinforcement of different materials

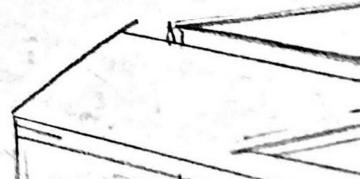
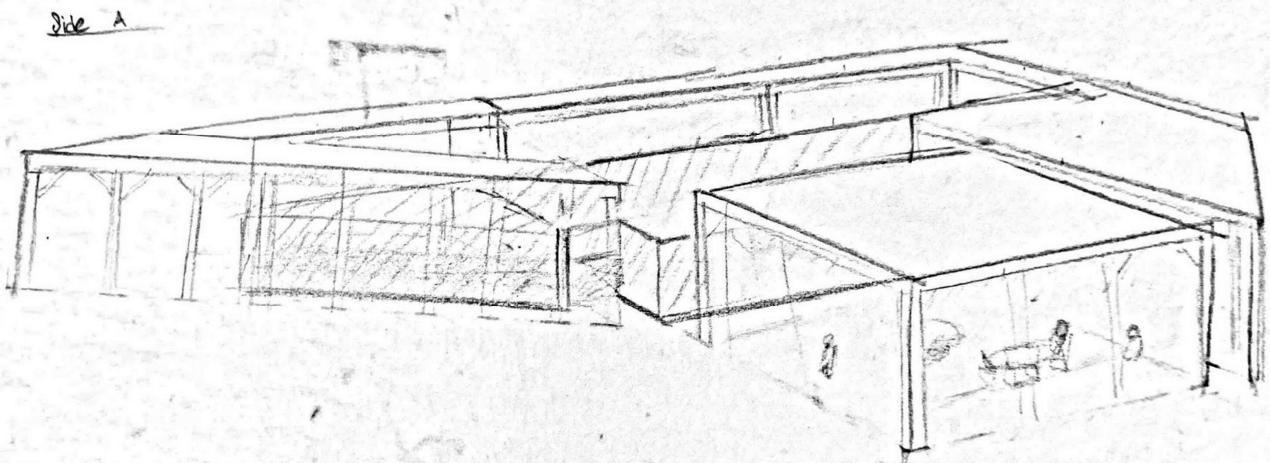


### Window Layout

Windows on walls that have views to  
river and street

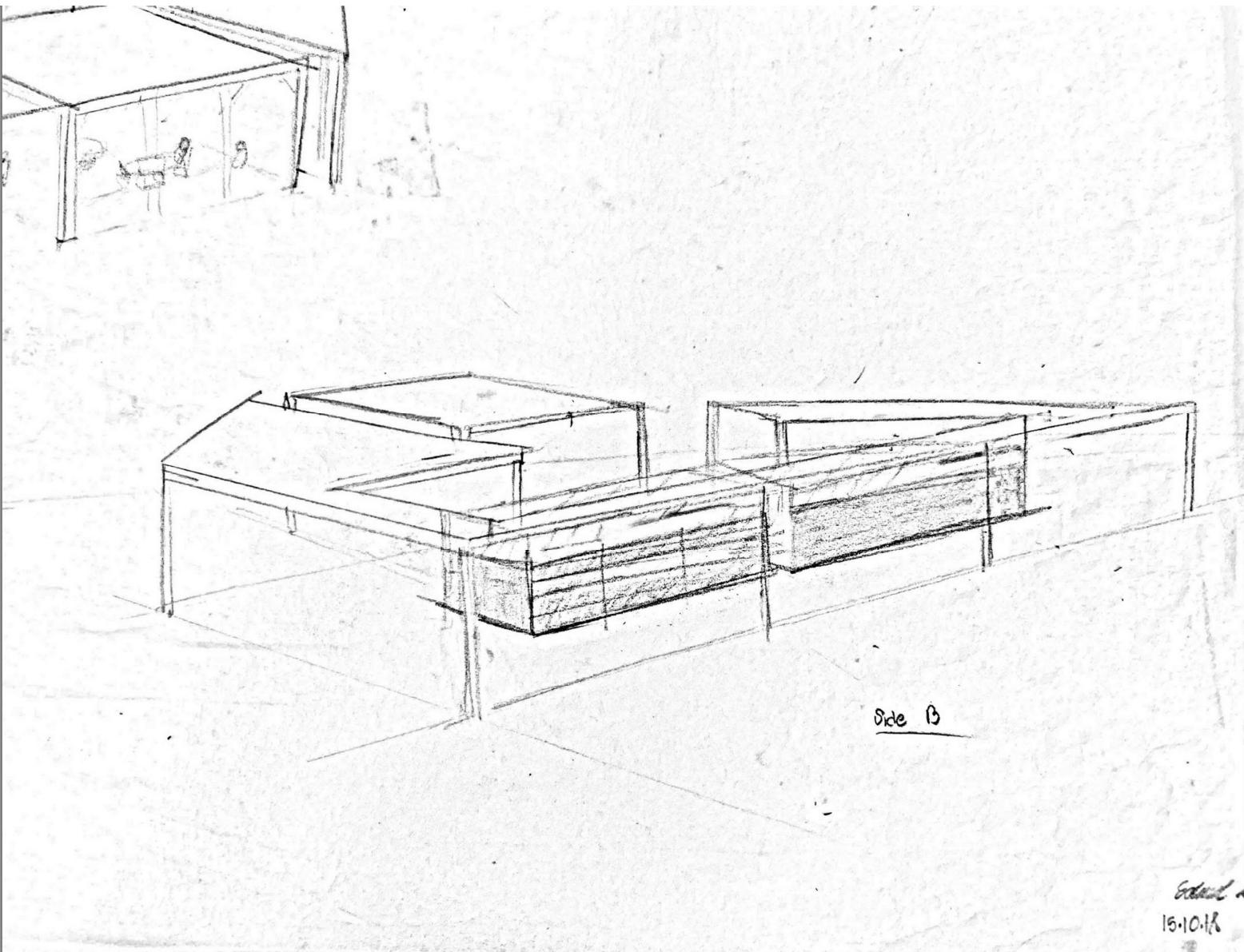
1

Sketches



## Window Layout

Windows on walls that have views to  
river and street



2  
Sketches