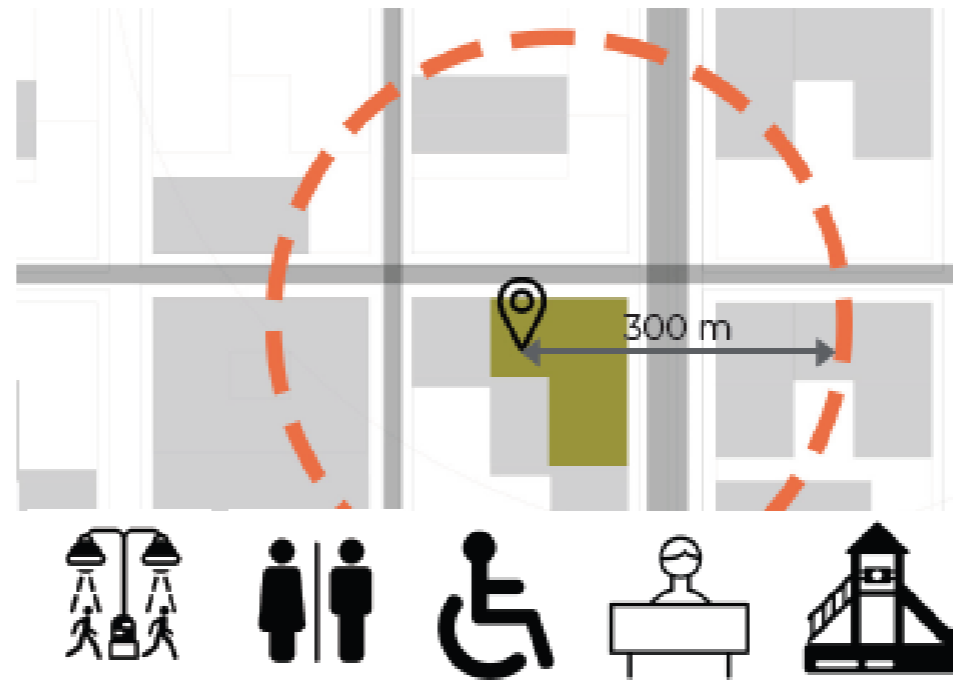


Open Green Spaces



Ecology

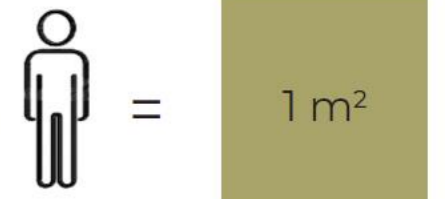
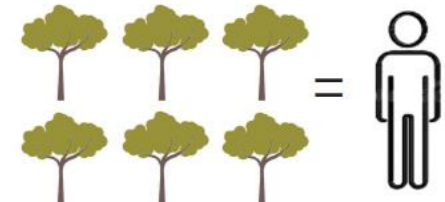
Landscape and Green Spaces

1) Calculating Area for Green Spaces and Miyawaki Forest

The amount of CO₂ exhaled from 1 person is replenished by 6 trees using that CO₂ for photosynthesis.

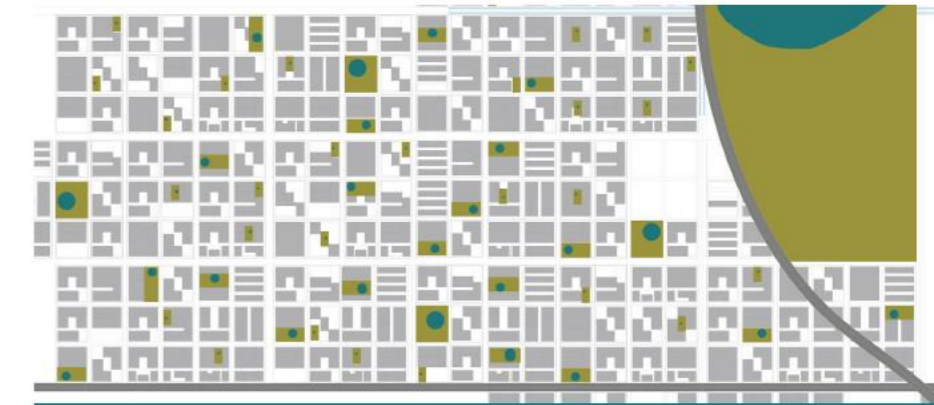
Considering that 2 of these trees are naturally occurring and we do not need to plant them in the city.

We need to plant for the 4 trees per person in the city. Using Miyawaki Method of Urban Forestation we can use 4 trees/m².



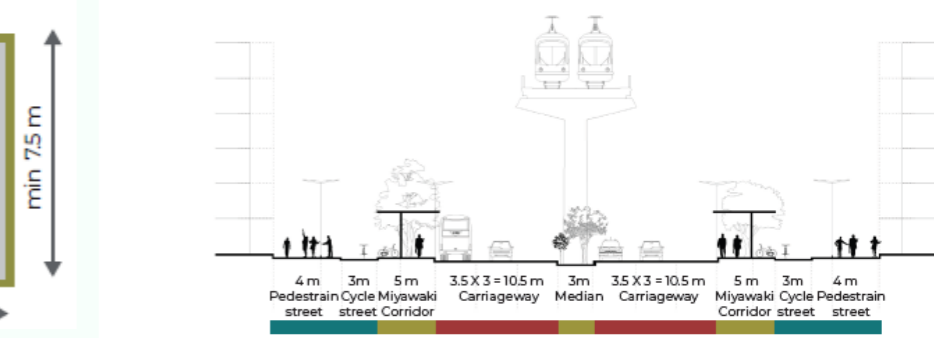
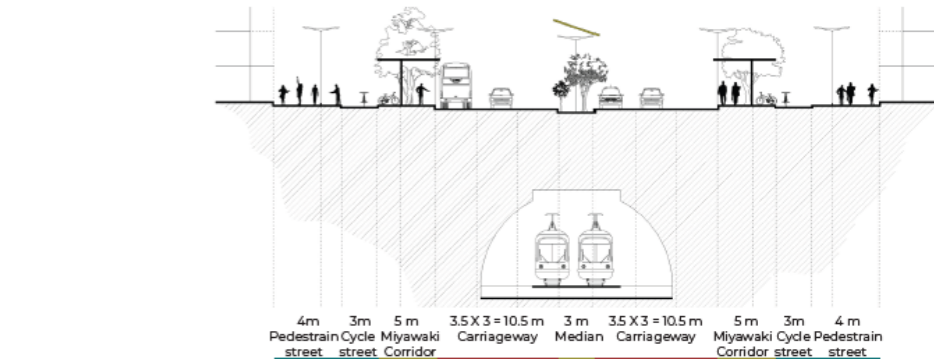
At Neighbourhood and City Scale

- 1) Rain water Harvesting in Open Spaces
All the parks and open public spaces should have access to atleast 2.5% of its area for rainwater storage.
- 2) Groundwater Recharge
Small and Medium sized parks should have percolation wells
Large city scale parks should have the percolation pond to collect cities storm water and allow to percolate.

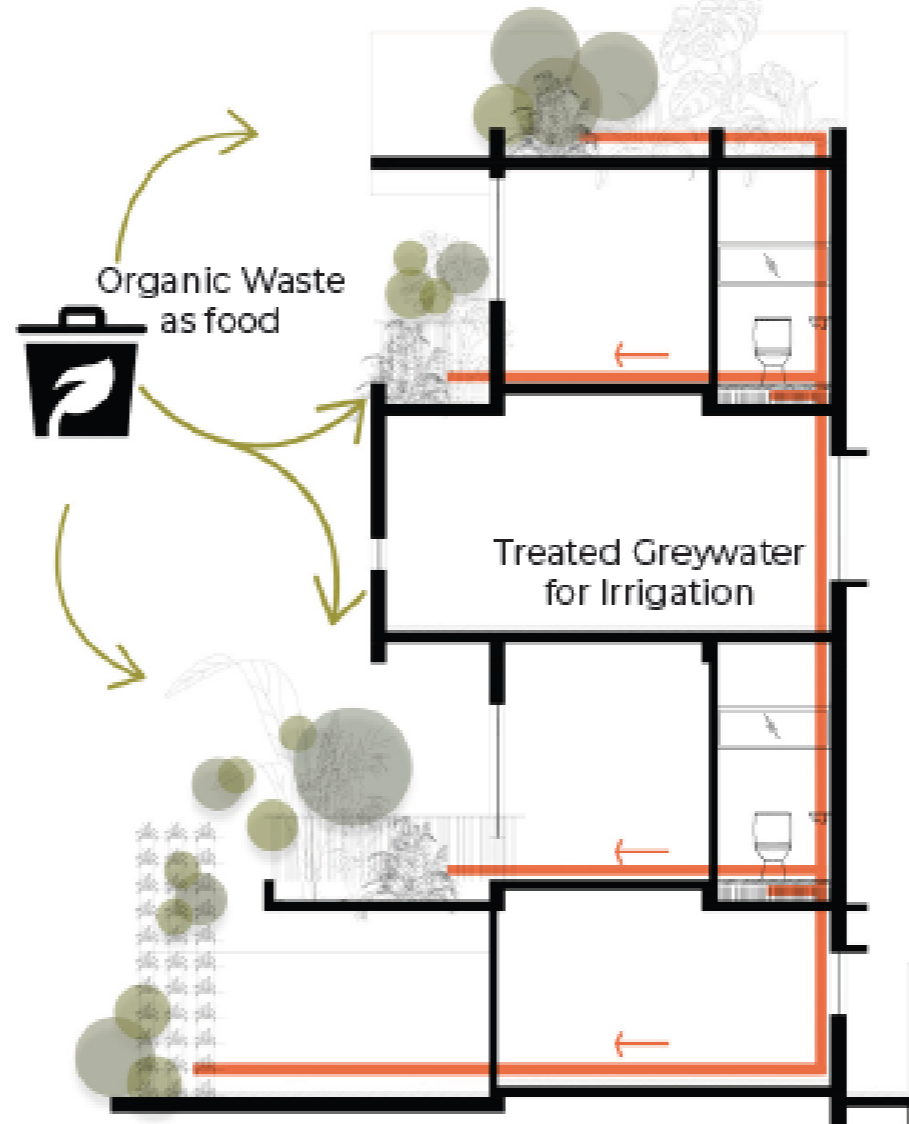


3) Increasing Percolation Capacity of Surfaces

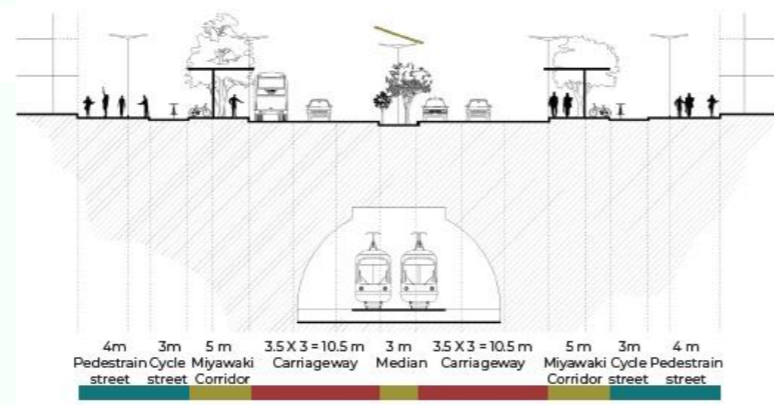
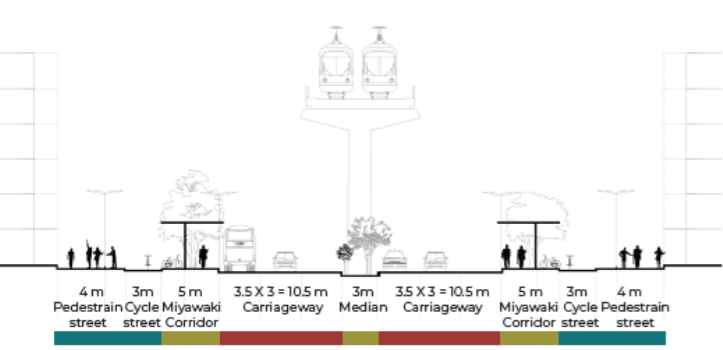
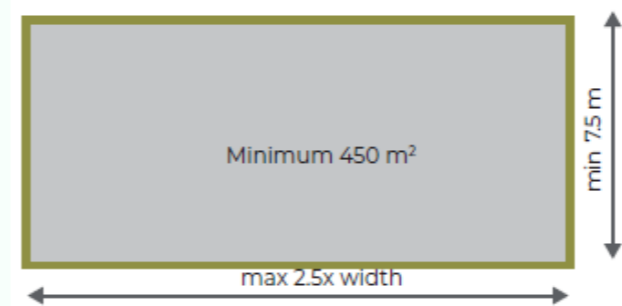
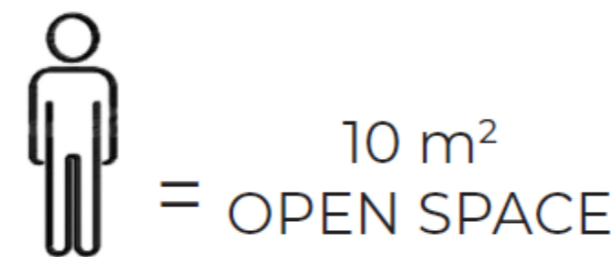
All the pedestrian walking ways needs to have green paver blocks which increase perviousness and allow a lot more groundwater discharge.



Spaces/ Types for UA



Open Spaces, Urban Agriculture and Ecology



Sizes and Hierarchy of open spaces

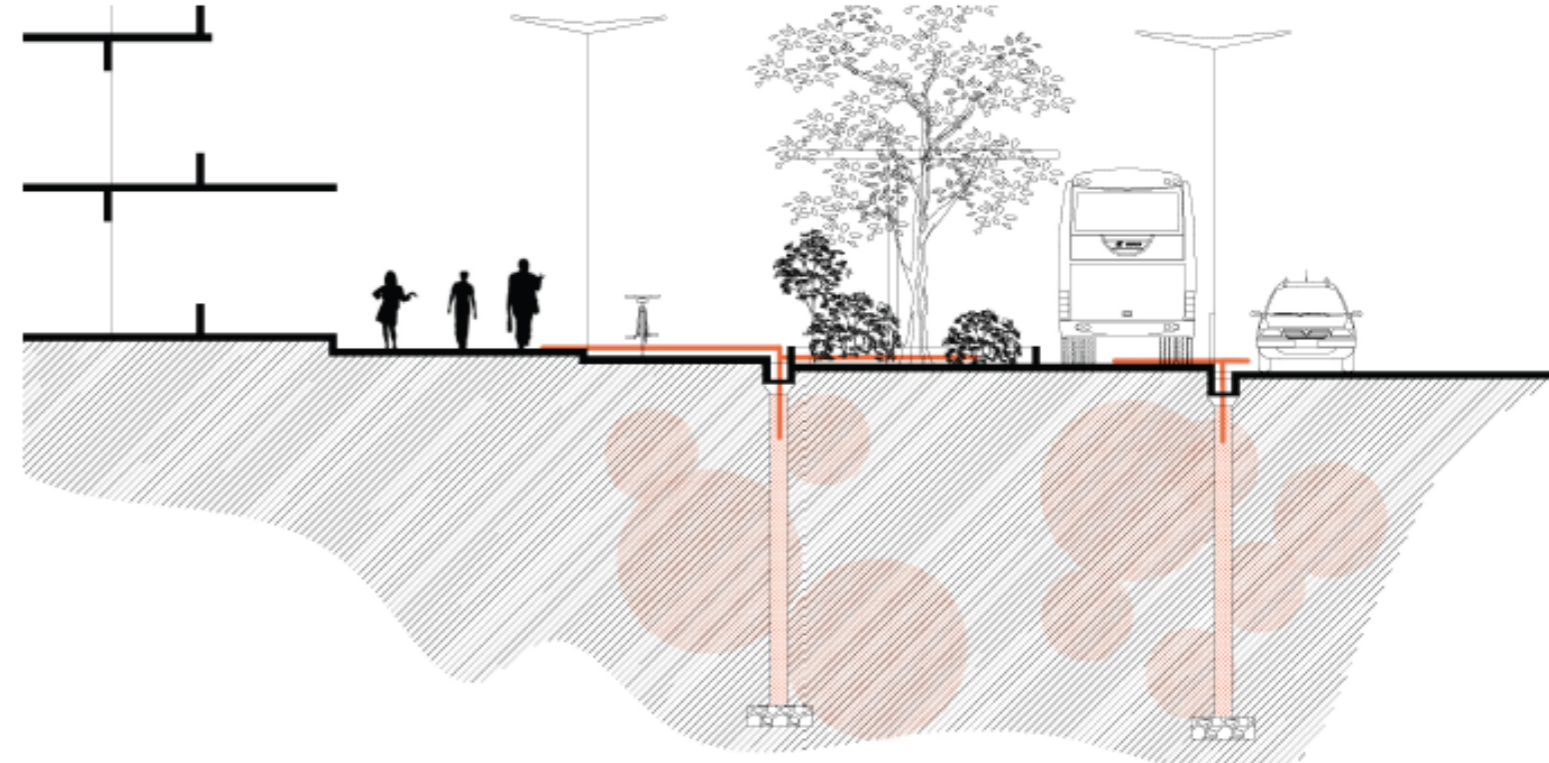
The basic approximate areas of open space according to their hierarchy are:

Housing Area Park
5000 m²

Neighbourhood Park
10000 m²

Community Park
50000 m²

* Any building line to be atleast 3 m away from the boundary of the community park



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Bachelors of Architecture

Student(s): Batch 2018-2023
 Faculty: Prof Dhaval Chauhan, Prof Jaydeep Bhagat

Urban Context Studio (Updated Course)

URGENT Cross-Cutting Theme: 4. Integrative Smart Green & Blue Urban Planning, including science, policy and management for adaptation, mitigation and urban NBS
 Credits: 8 ECTS Type of Course: Studio
 Semester: VIII Sem Year: 2022