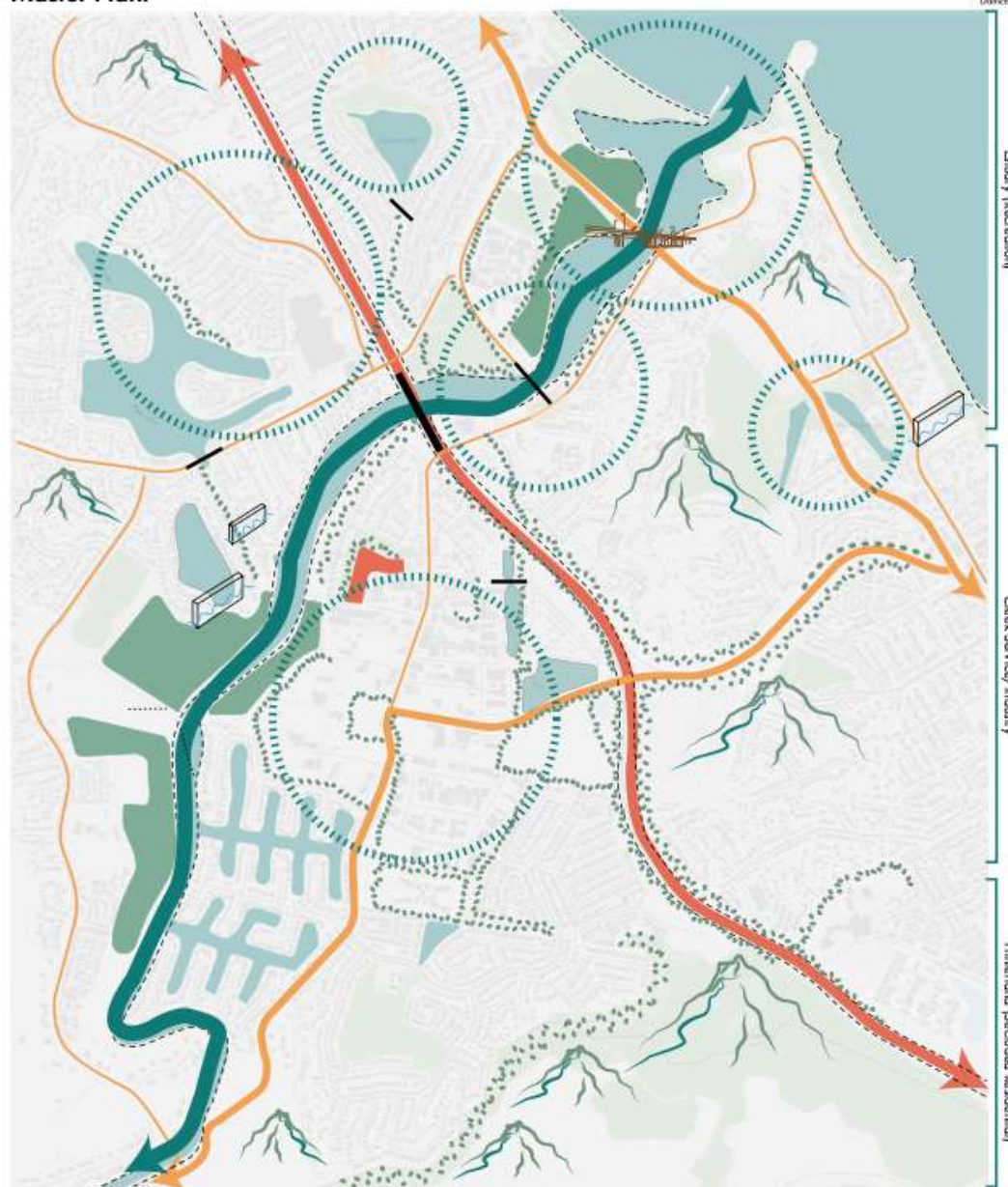


Womens Transitional Facility, Currumbin Waters

Mason Cree (s5092919) for 3905ENG City Systems

The natural water systems of Currumbin akin to the occupants of the transitional facility are in a state of liminality, a temporary threshold between isolated streams of solitude and the convergence into the wider community. This transitional facility takes inspiration from the ecological and city systems within Currumbin to create a space which fosters repair and rehabilitation not incarceration.

Master Plan:



Scale 1:10000 0m 200m 500m 1000m

Legend:



City Kit of Parts:

Edges:



Blue Edges

Water edges throughout Currumbin create the land while providing active spaces for social gathering.



Ecological (Green) Edges

Green edges act as buffers for protection against disturbances and provide sense of privacy.



Infrastructural (Hard) Edges

Masses of buildings act as barriers to define a distinct boundary between spaces of different uses.

Nodes:



Blue Nodes

Macro nodes which encompass multiple smaller nodes which work together to create a larger social gathering space.



Green Nodes

Green nodes sequestered around larger blue nodes provide green space for family/recreational activities.



Micro Nodes

Spaces between private dwellings that more intimate neighborly interactions can occur.

Infrastructure:



Water Management Systems

Water bodies and water outlets that connect to creek effectively direct the water away from houses to mitigate flooding.



Bridges and Elevated Pathways

Elevated parks allow for effective circulation through city to different districts.



Bulkheads

Allows for water to pass over during intense rainfall to reduce flooding.

Social Connections:



Pathways:



Arterial Roads

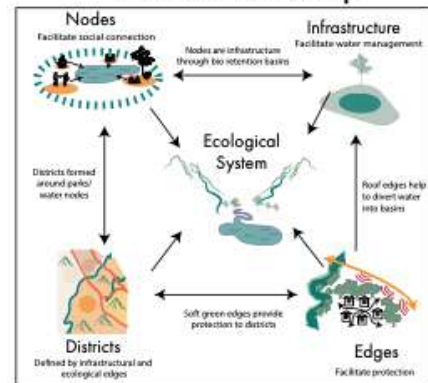
Major roads for circulation of high traffic loads.



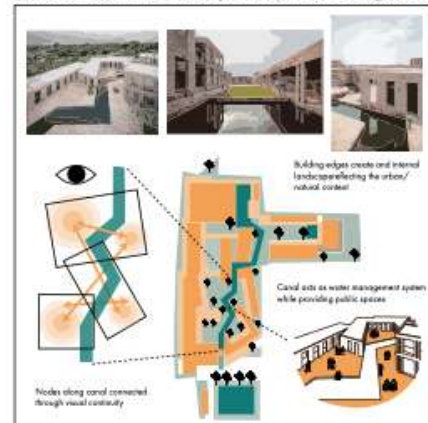
Boardwalks

Elevated parks protect people from transitioning risks while protecting the ecosystem from foot traffic.

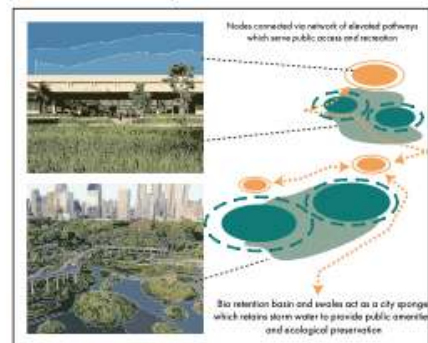
Kit of Parts Relationship:



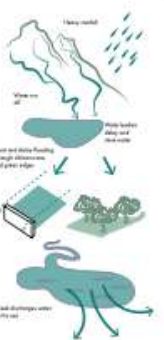
Precedent: Friendship Hospital, Bangladesh



Precedent: Benjakitti Forest Park, Thailand



Ecological Systems:



Landmarks:



Mountains

Elevated terrain defines the character of Currumbin providing a distinct sense of place.



Water

The many water bodies found in Currumbin particularly the creek is the iconic space that gives Currumbin its unique character.

Districts:



Geographical Identity

Ecological identity provides distinct districts which correlate with respective services and uses.



Program/Services

Each area has certain uses and services which create a patchwork on the landscape with distinct edges.

Form Development / Site Response:



Site intersects between public park and heavy industrial space



Hard building edge protects from industrial while activating water edge and opening up to park to engage with public



Soft curved edges introduced to evoke a sense of calmness for occupants

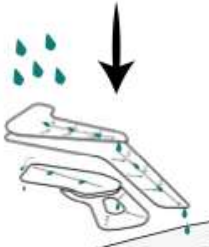


Mass extruded to create voids for maximum natural light penetration throughout site

Water Management / Roof Design:



Rainfalls are actively managed by ecosystems through leaf shape

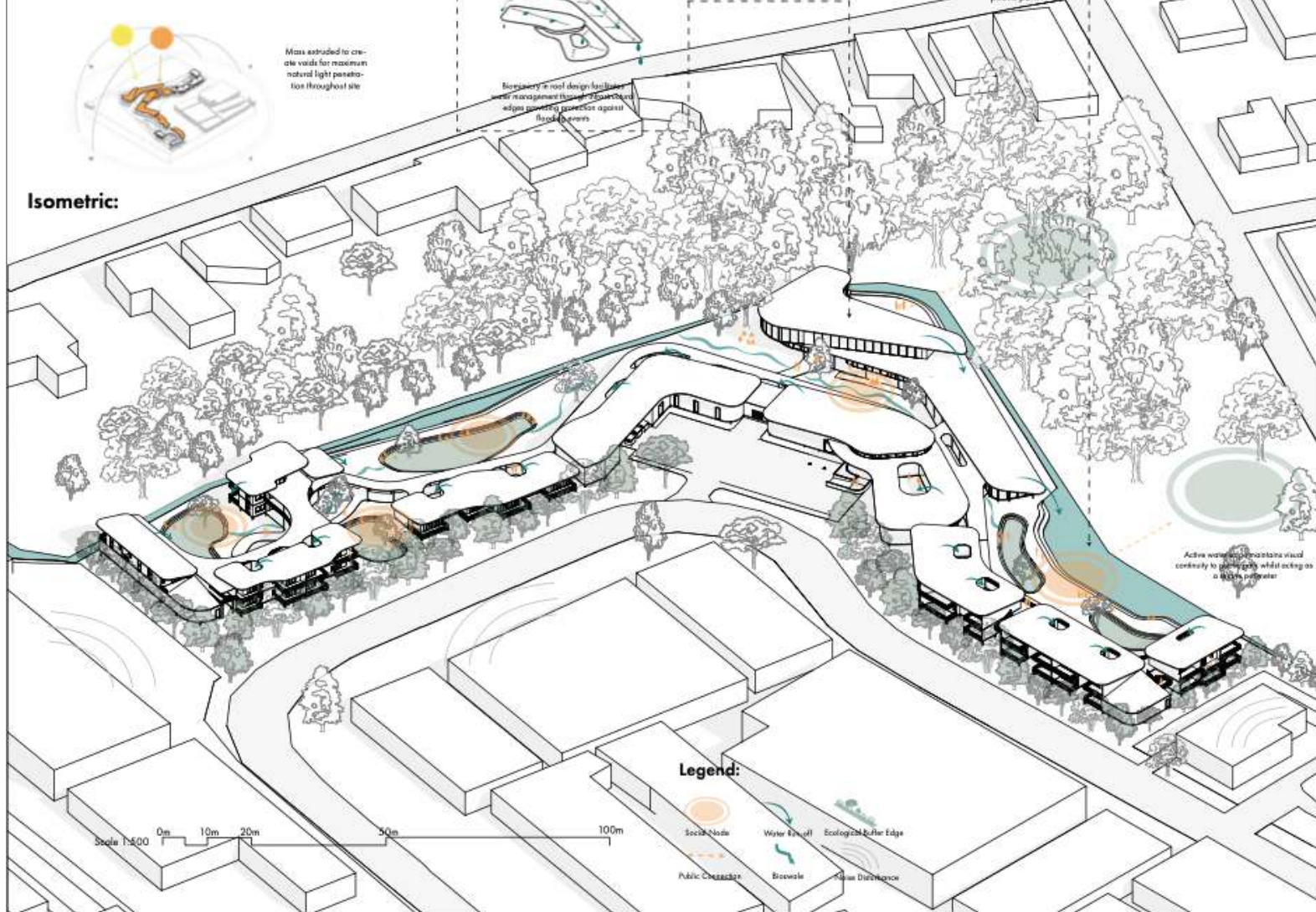


Roof design facilitates water management through its landscape edge pointing protection against flood events



Revitalizing the water outlet through activating the boundary edge with terracing and native flora facilitates community engagement with public park

Isometric:



Edge Perimeter:



Ecological Edge:
Dense vegetation of native flora acts as a secure perimeter while assisting the runoff of water



Blue Edge:
Extension of water outlet creates a stark visual boundary to the site while improving public amenity



Boundary Edge:
Building mass acting as hard edge to turn away from industrial and open up to public park

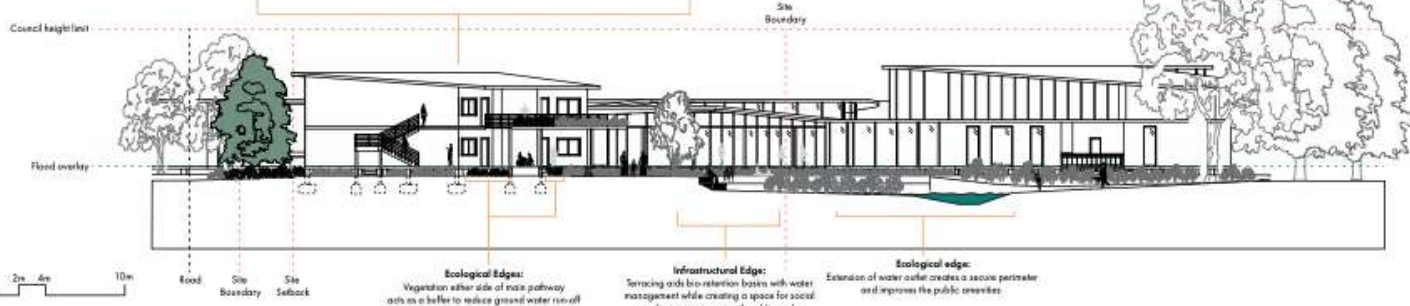


Social Connection:
Blue edge maintains visual continuity to public park fostering social interactions despite boundary



Secure perimeter created around site using natural edges and mass of buildings

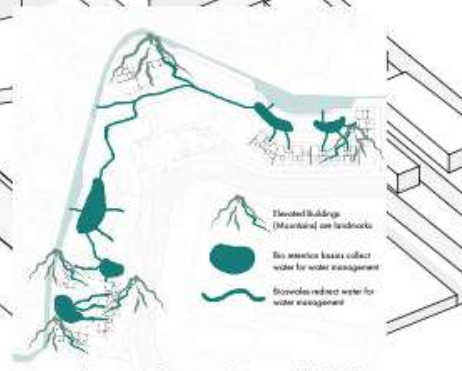
Section A:



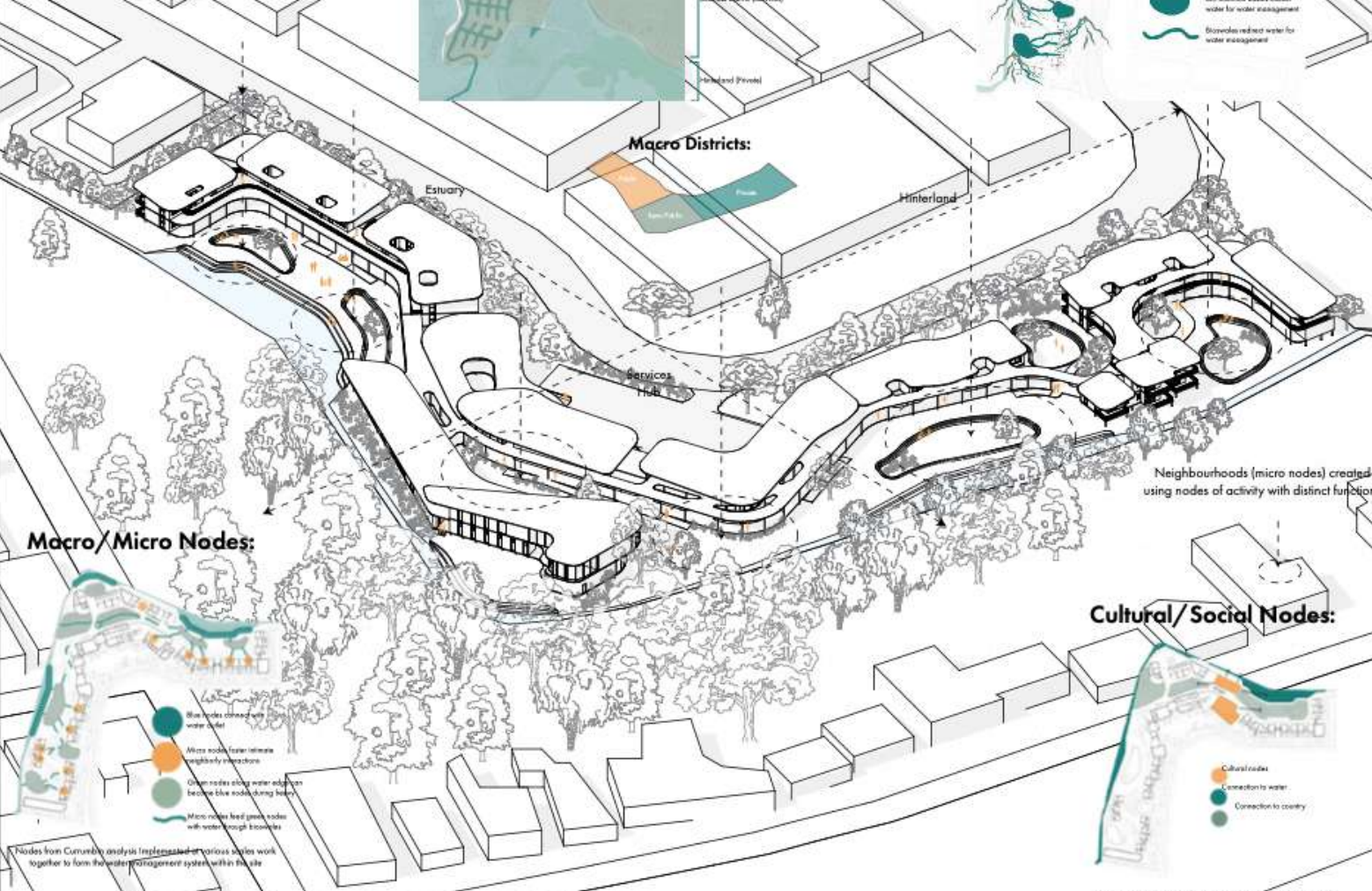
Macro Districts Diagram:



Landmarks Diagram:



Isometric Diagram:

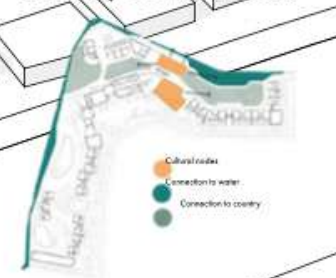


Macro Districts:



Neighbourhoods (micro nodes) created using nodes of activity with distinct function

Cultural/Social Nodes:

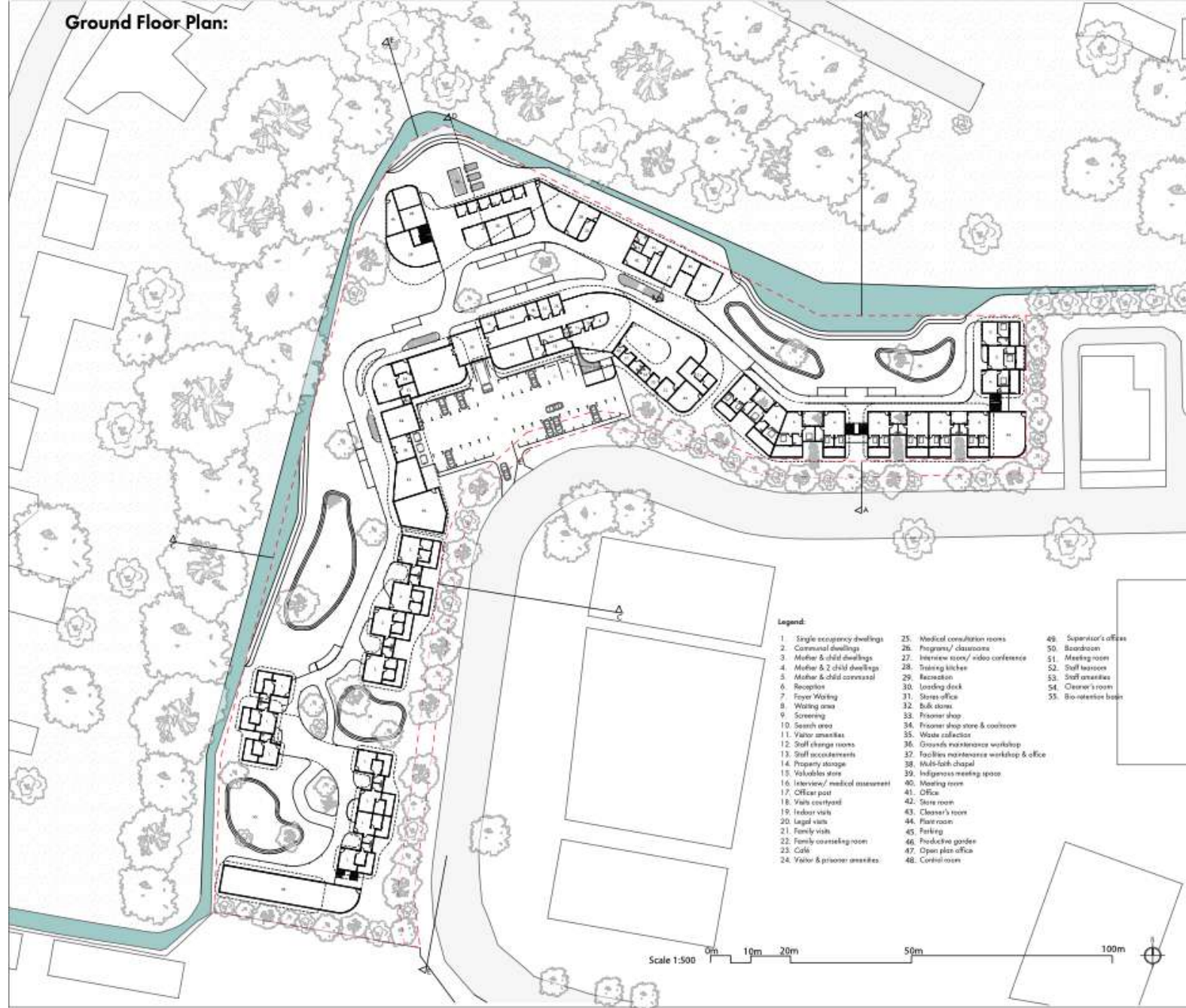


Cultural and social nodes arranged to connect with the estuary/recreation district most effectively while connecting to country through panoramic views of green spaces, water and public parks

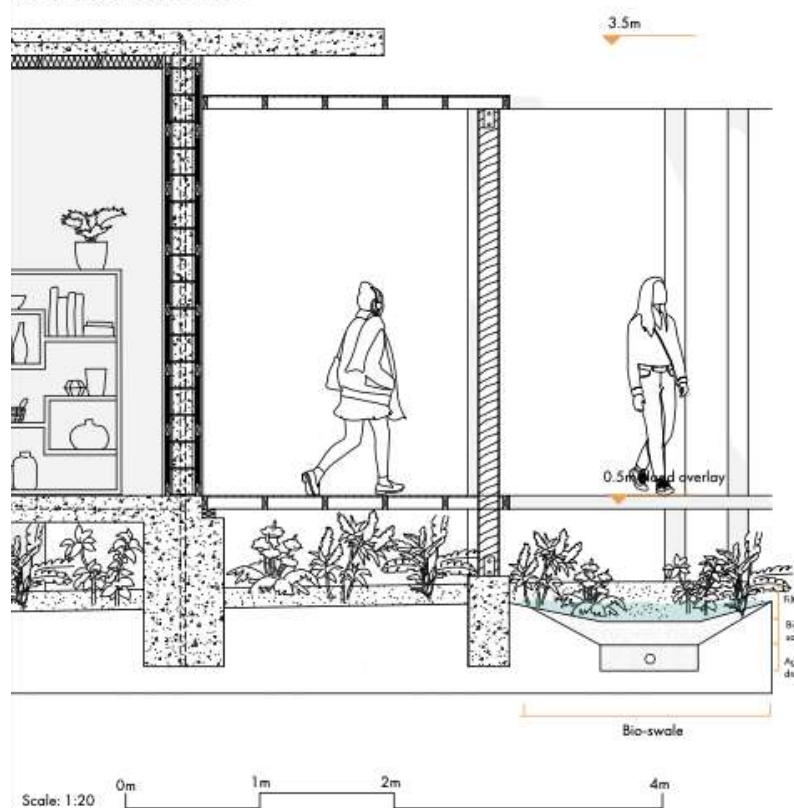
Macro Green Node Perspective:



Ground Floor Plan:



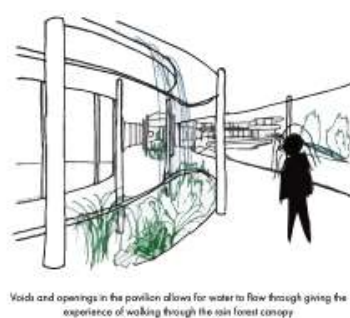
Detailed Section B:



Elevated Pathways:



Pathways of Choice:

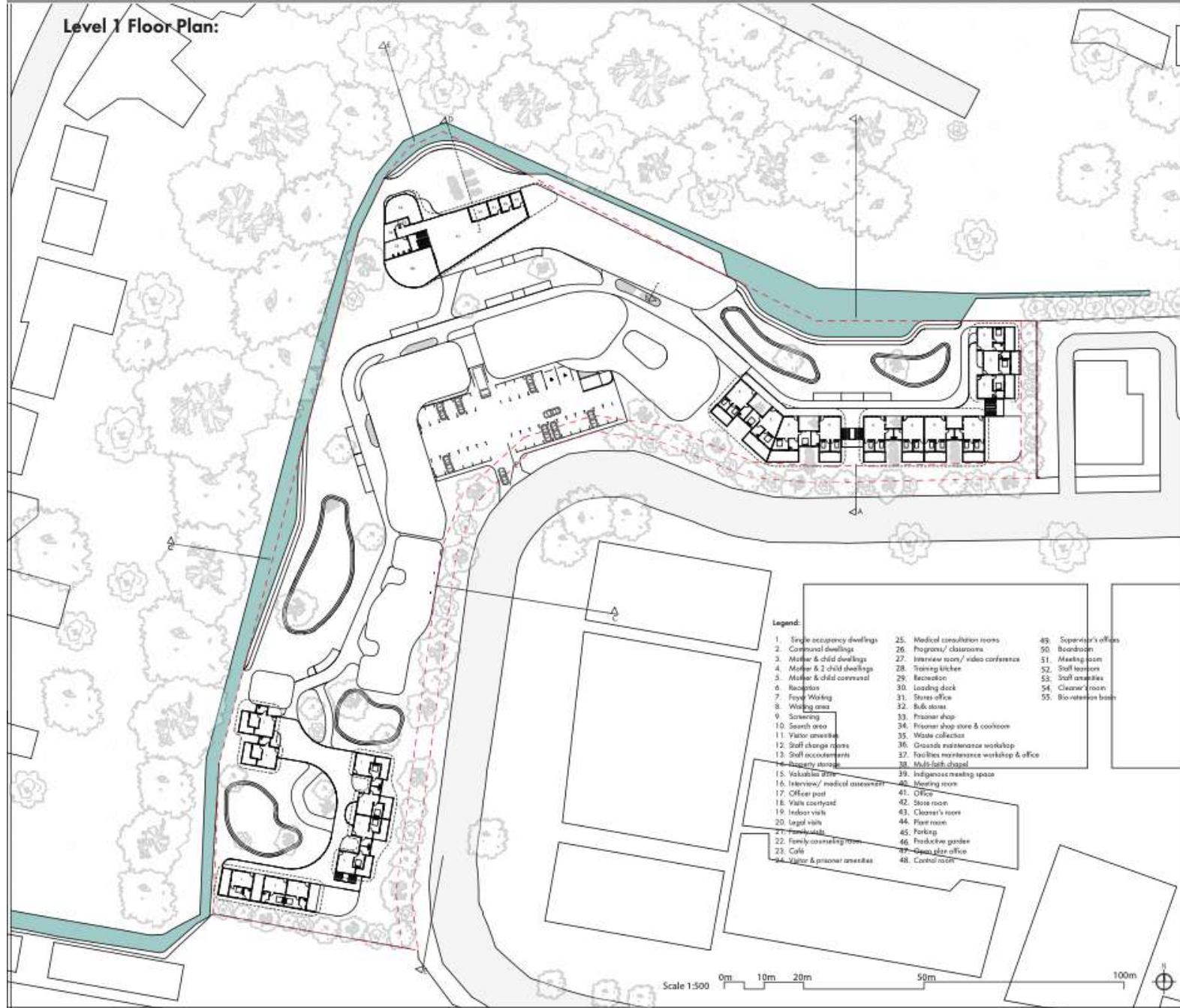


Pavilion Pathways Perspective:

Continuous elevated pavilion pathways provides protection against elements acting as a canopy

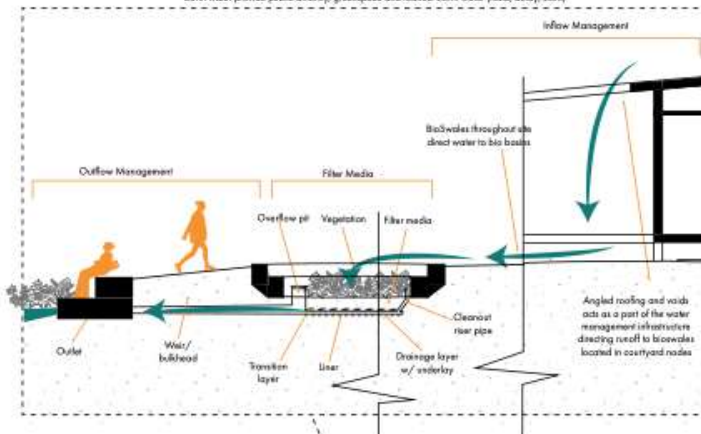


Level 1 Floor Plan:



Bio Retention Basin Infrastructure Diagram:

Taking inspiration from the ecological and infrastructural water management systems found throughout Currenville, the bio retention basin key feature is to filter storm water provide public amenity, greenspace and redirect storm water (wash, delay, store).

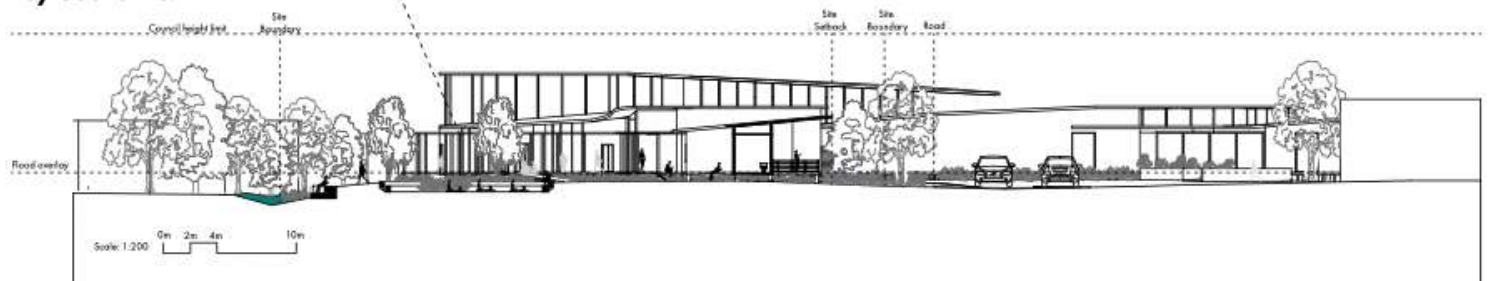


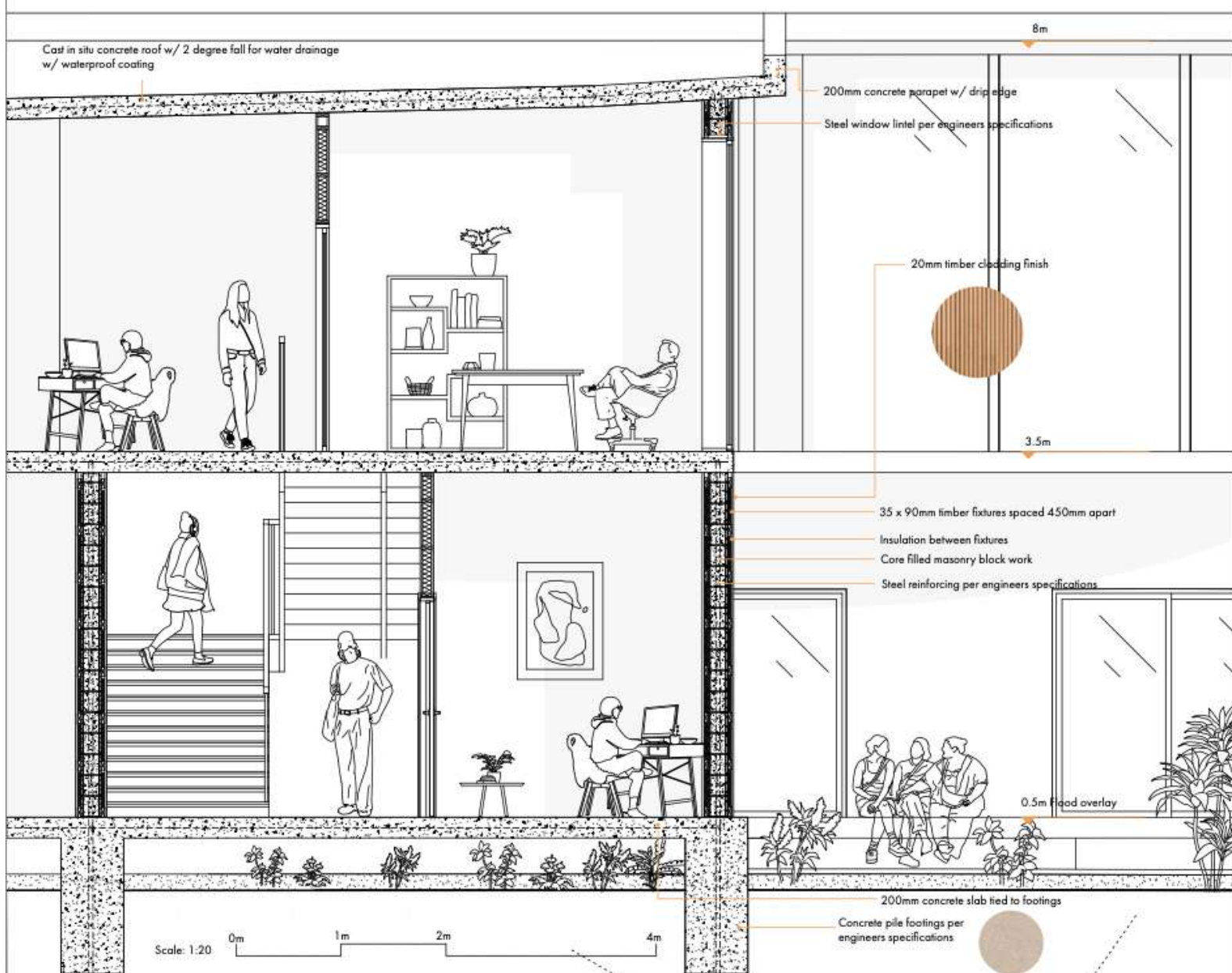
Micro nodes as Infrastructure:



Micro nodes between dwellings acts as multifunctional spaces providing places for intimate social interactions while acting as a part of the site infrastructure actively managing the flow of water runoff from roofs.

Key Section C:





Site Section E:

