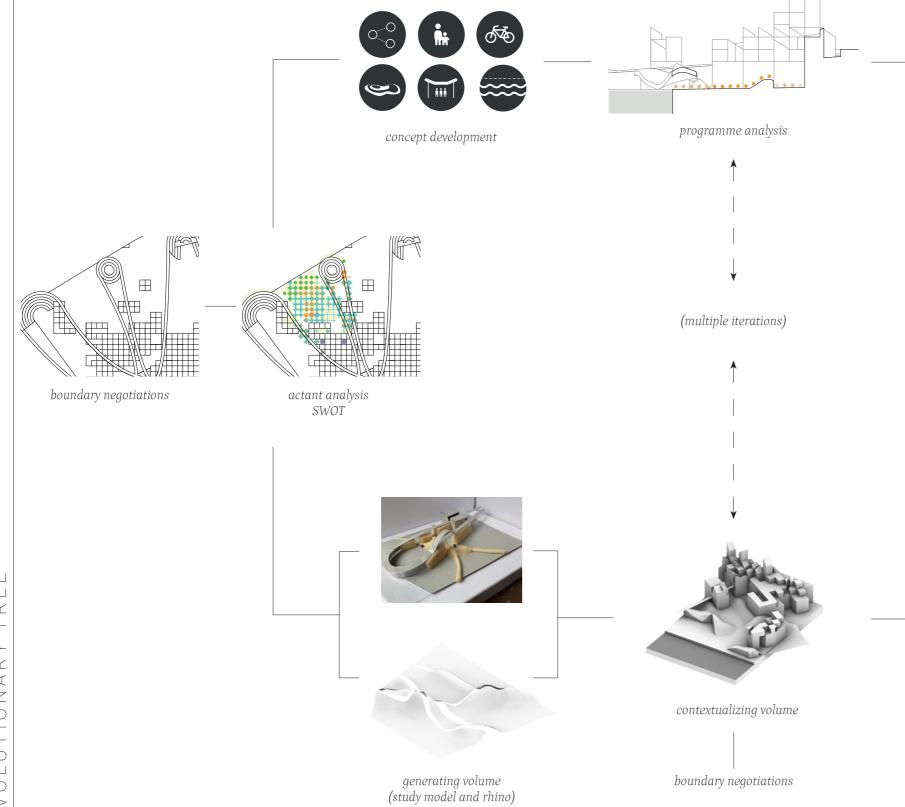
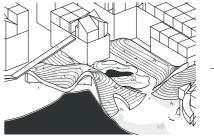


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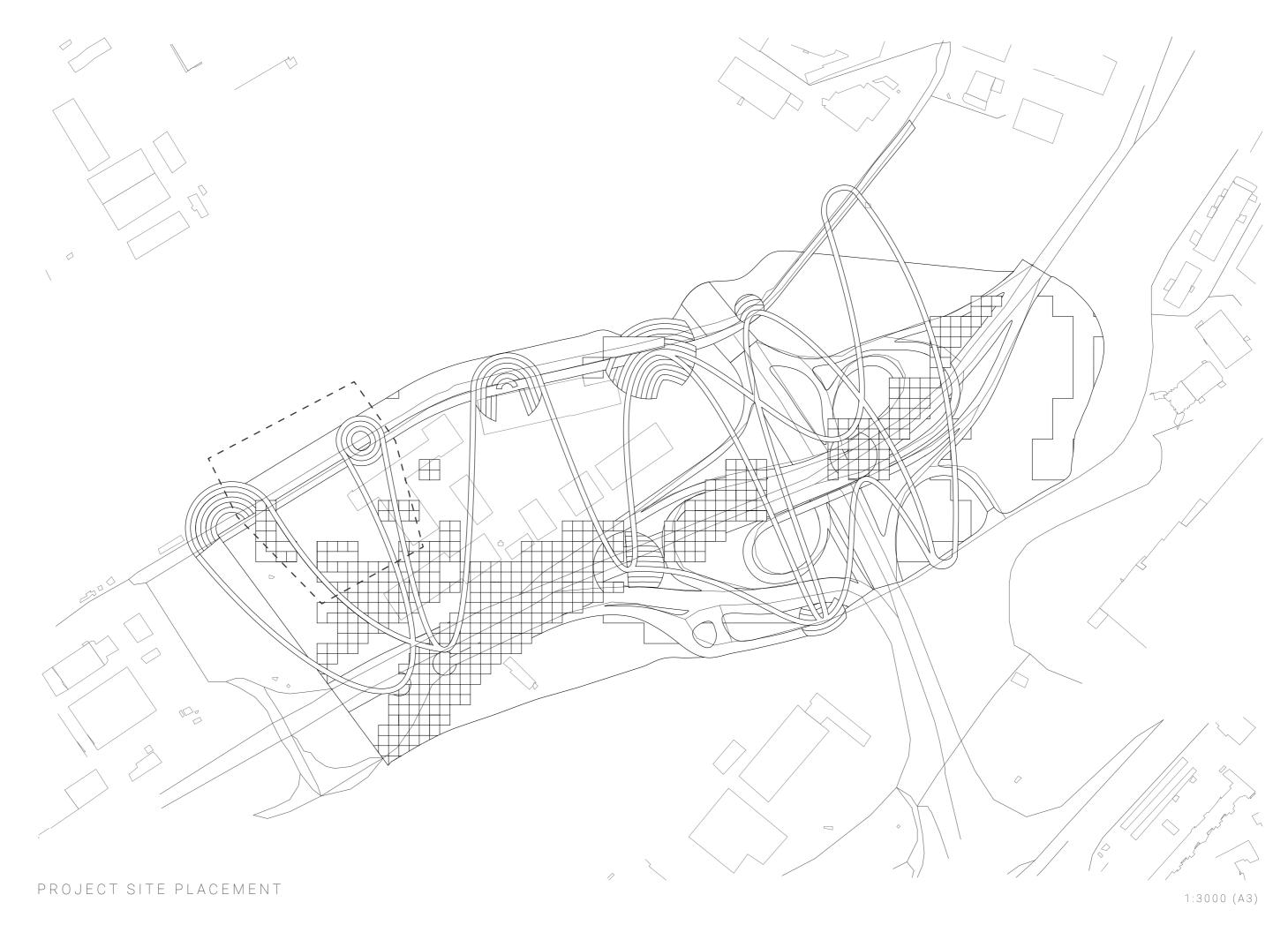


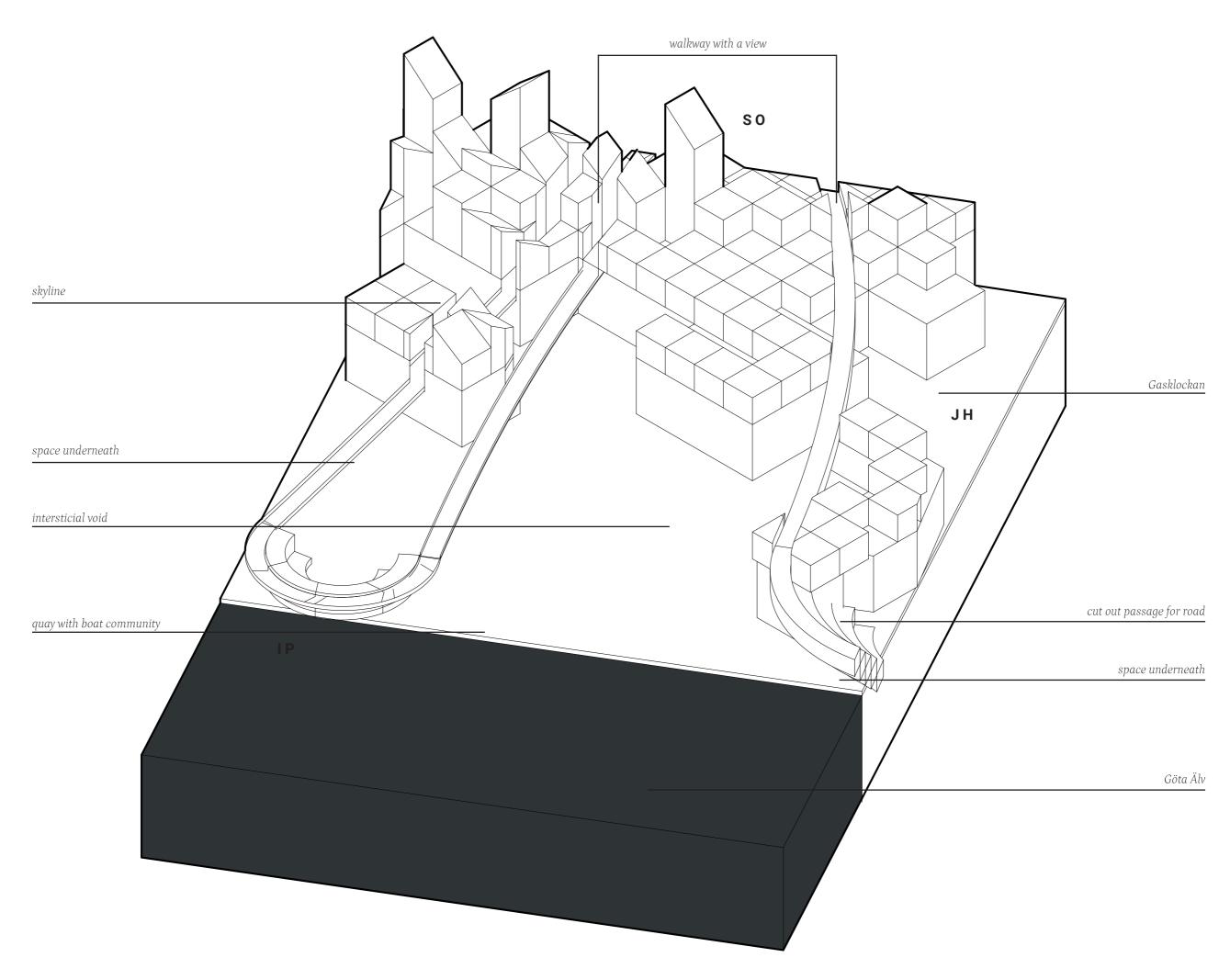
design proposal

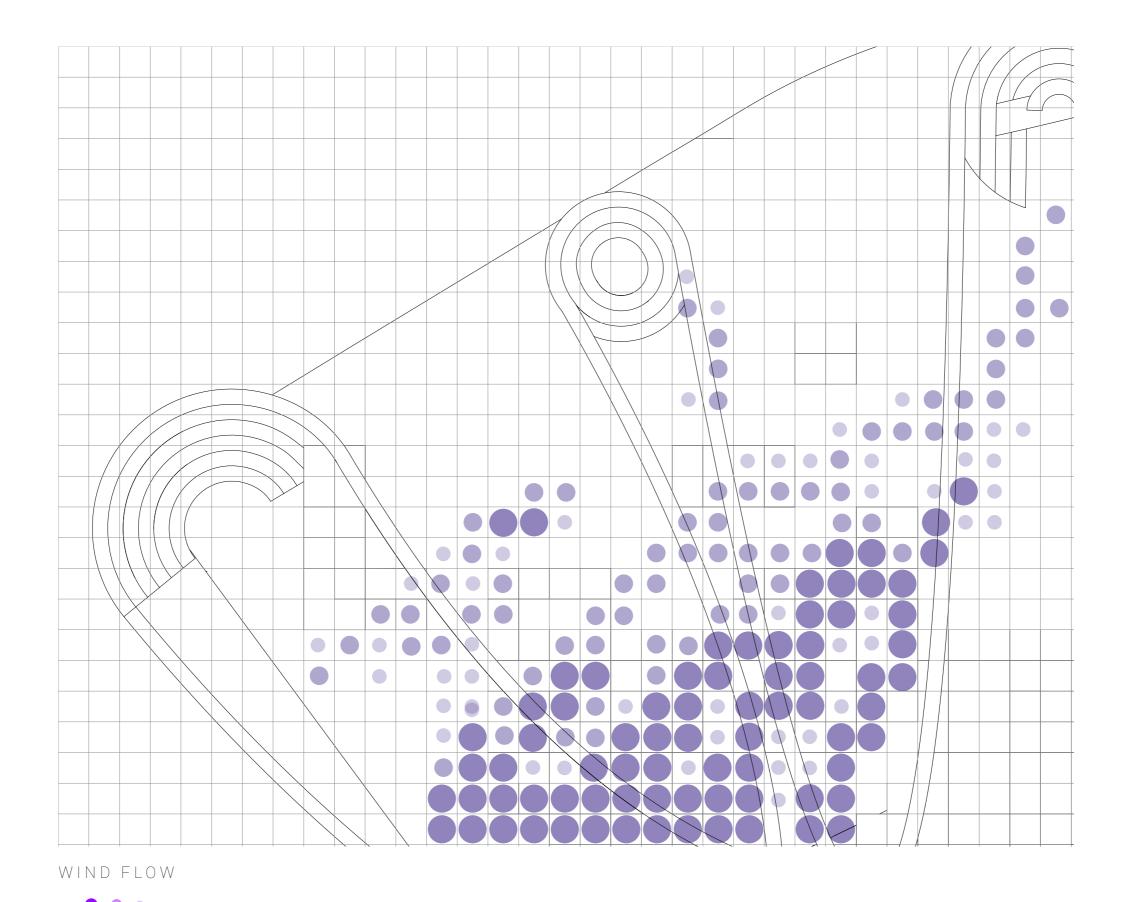
actant analysis

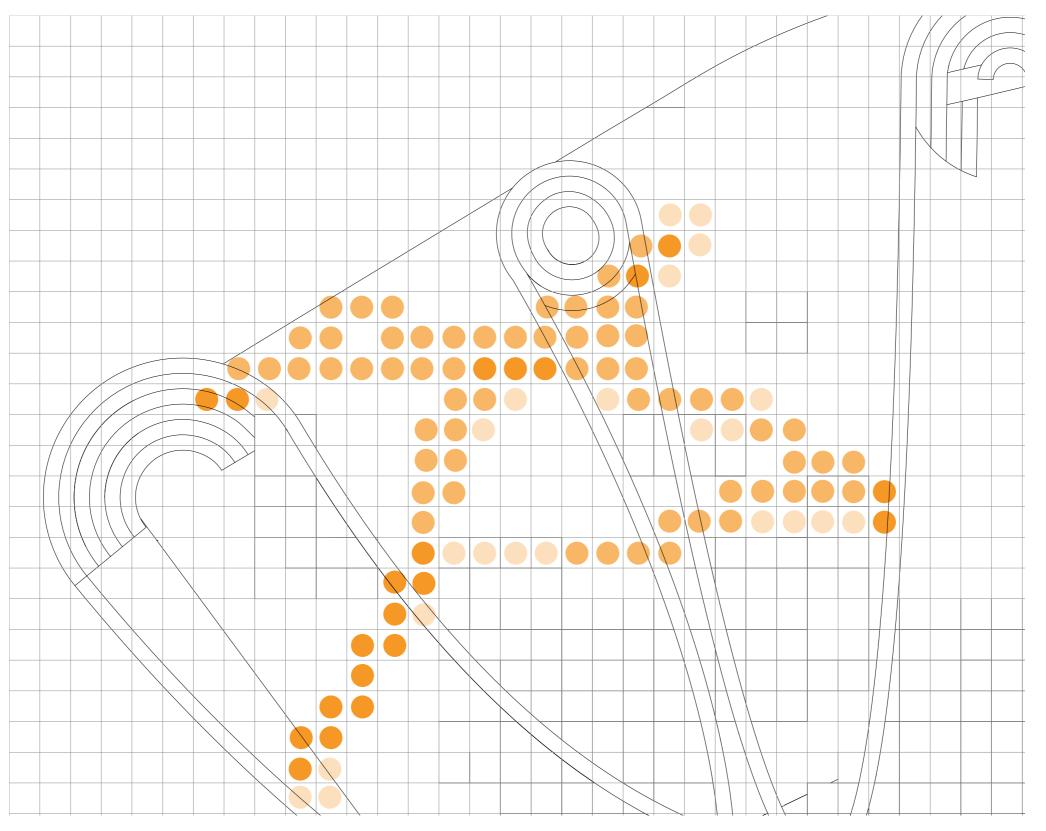
# SCOPE

UNDERSTANDING THE SITE



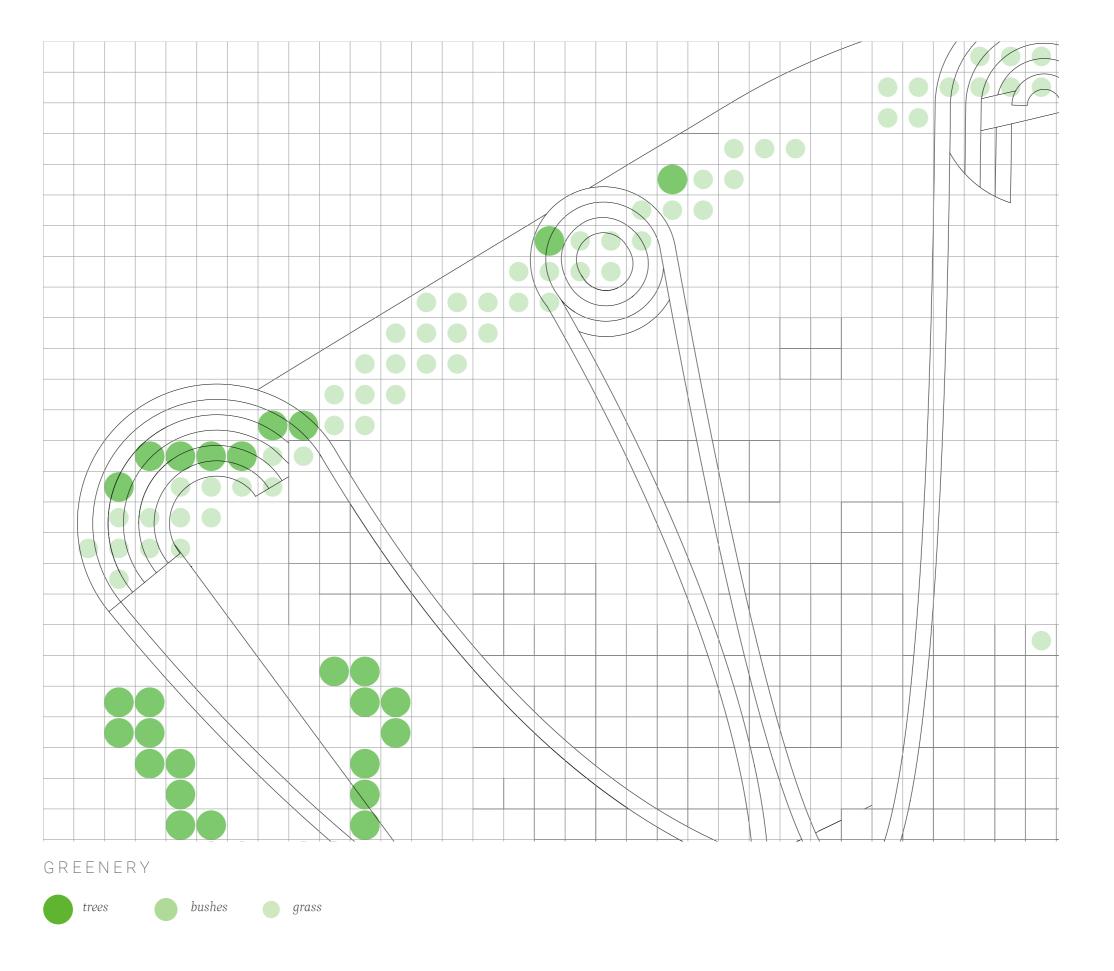


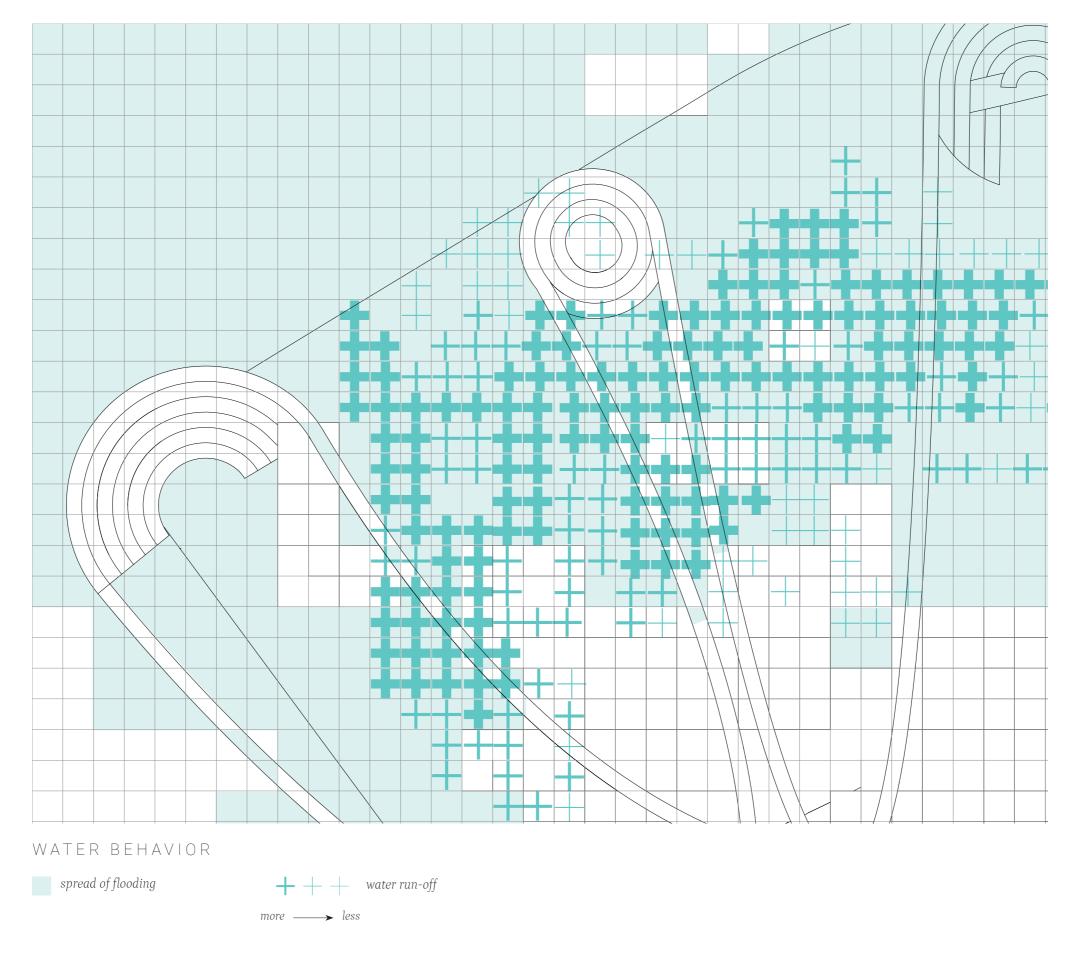


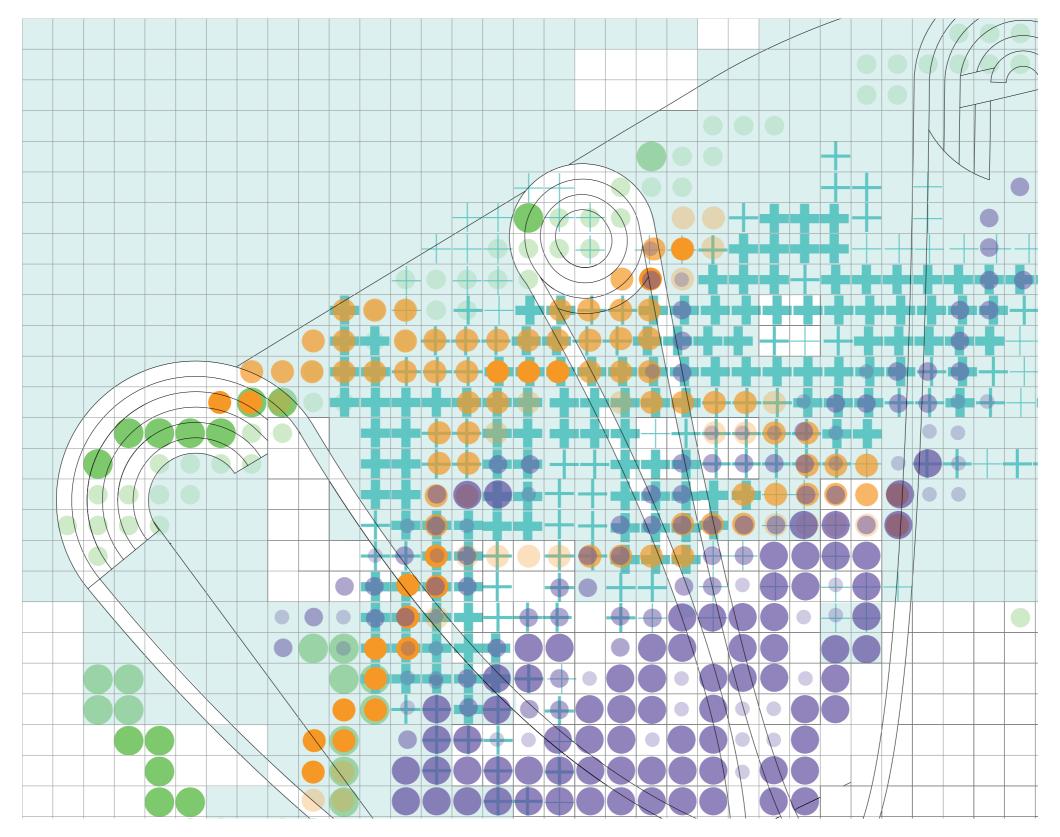


PEDESTRIAN MOBILITY

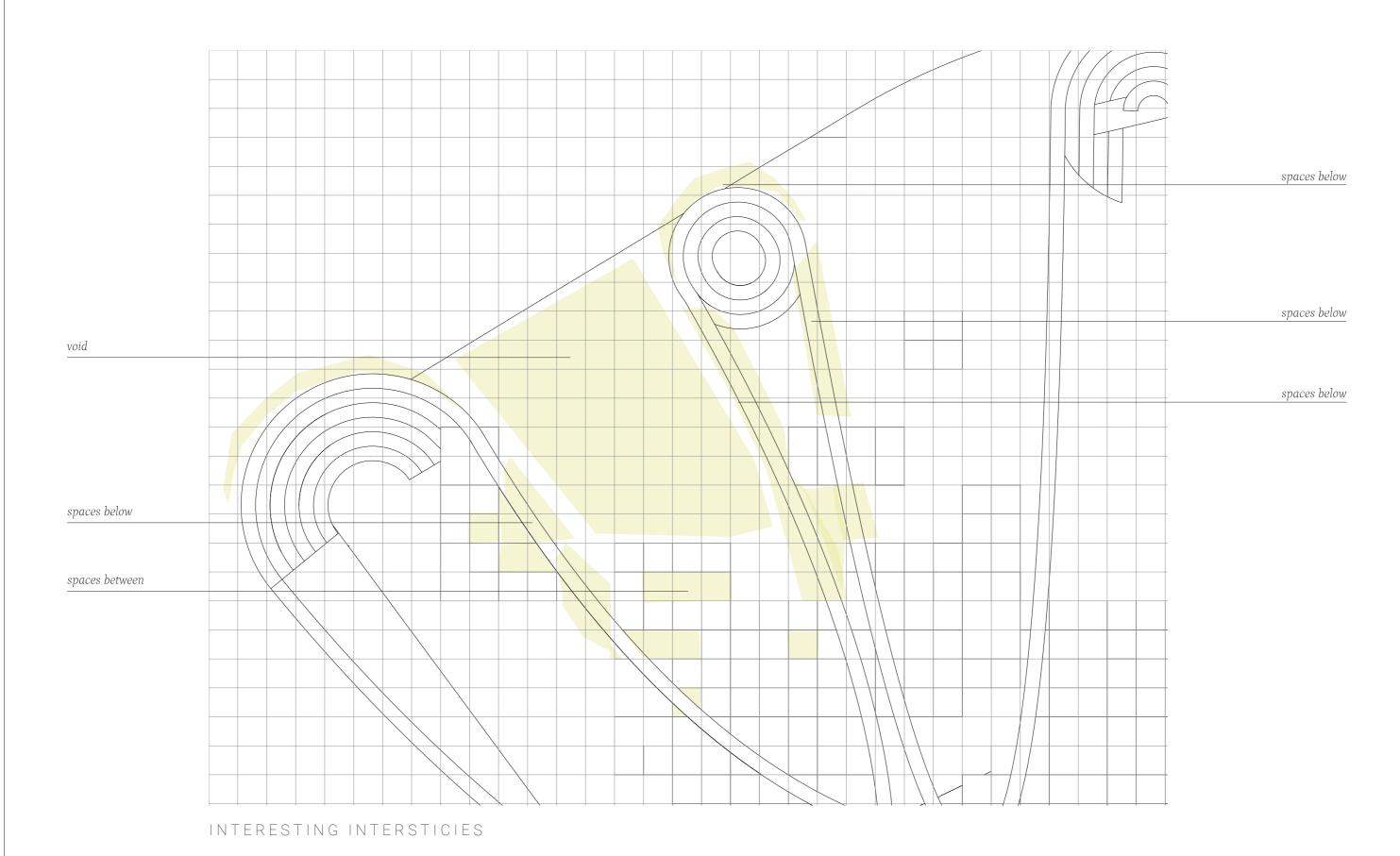


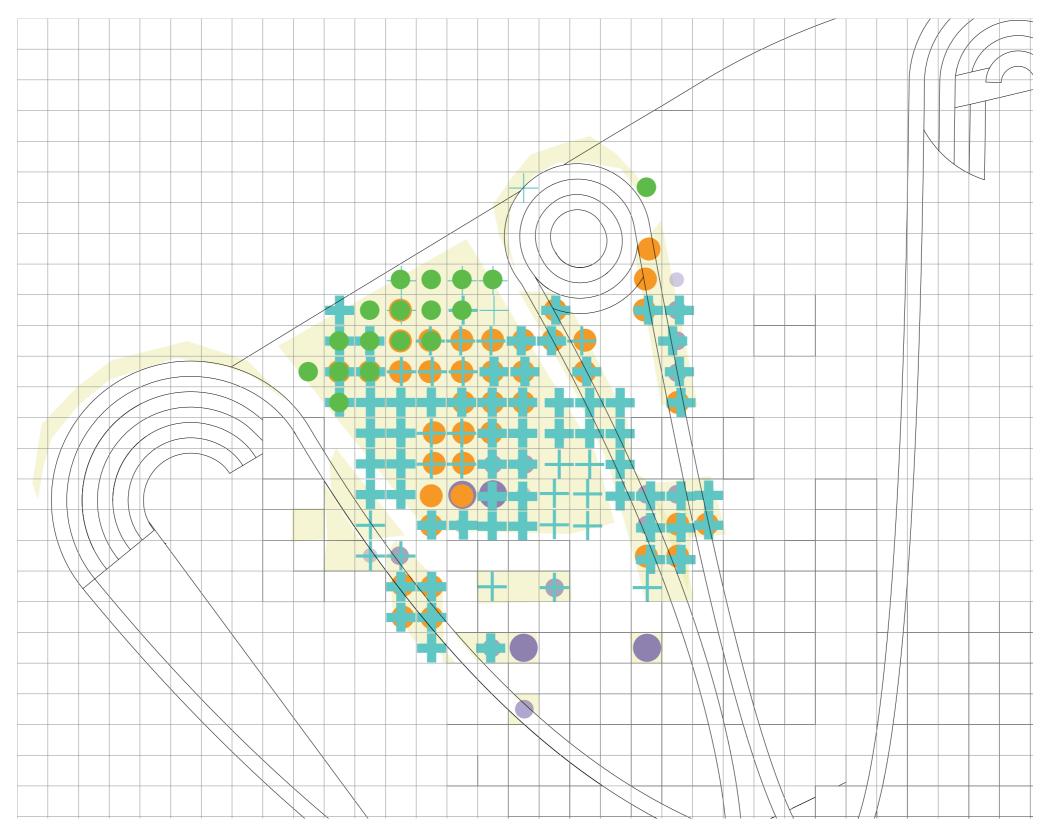






SUPERIMPOSED ACTANT BEHAVIOR





INTERSTICIES ACTANT DATA

#### DOMINANT ACTANTS IN SITE INTERSTICIES







mobility



green spaces

### SWOT ANALYSIS

### STRENGTH

Geographical position in the city Closeness to water Flat landscape = easily accessible Community at the quay

#### WEAKNESS

Poorly connected to the city via road network
Industrial site lacking reasons to visit
Small current target group
Difficult to access new walkpath from ground

### OPPORTUNITIES

Through new development and connections create an extended city centre Connect the city as a whole to Göta Älv Programme areas for other target groups, such as kids

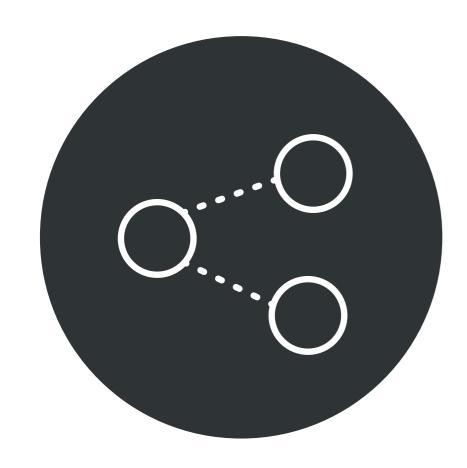
### THREATS

Flooding

# CONCEPT

UNDERSTANDING THE PROJECT

### PROGRAMME GOALS



Connections

Improve connections and utilize those that already exist
Increase connection to the water



Target groups

Shift target group to those not included today Kids and youths



Create activity

Bring activity to the area to make it a destination Encourage mobility on wheels

### ARCHITECTURAL GOALS



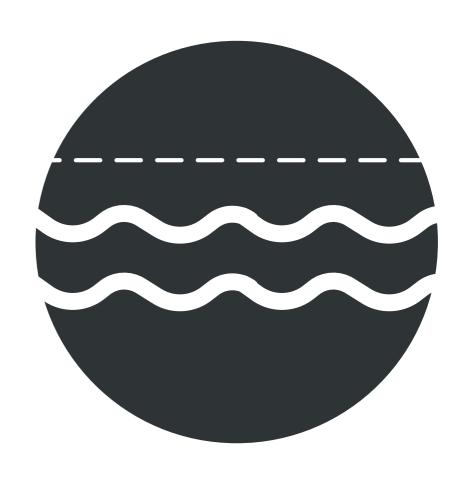
Organic landscape

Encourage mobility on wheels with challenging but approachable shapes



Utilized spaces below

Spaces below the organic landscape to be used for GFA needs and public functions



Intergrated water management

Adapting to flooding and rain water by allowing these element to become part of the design







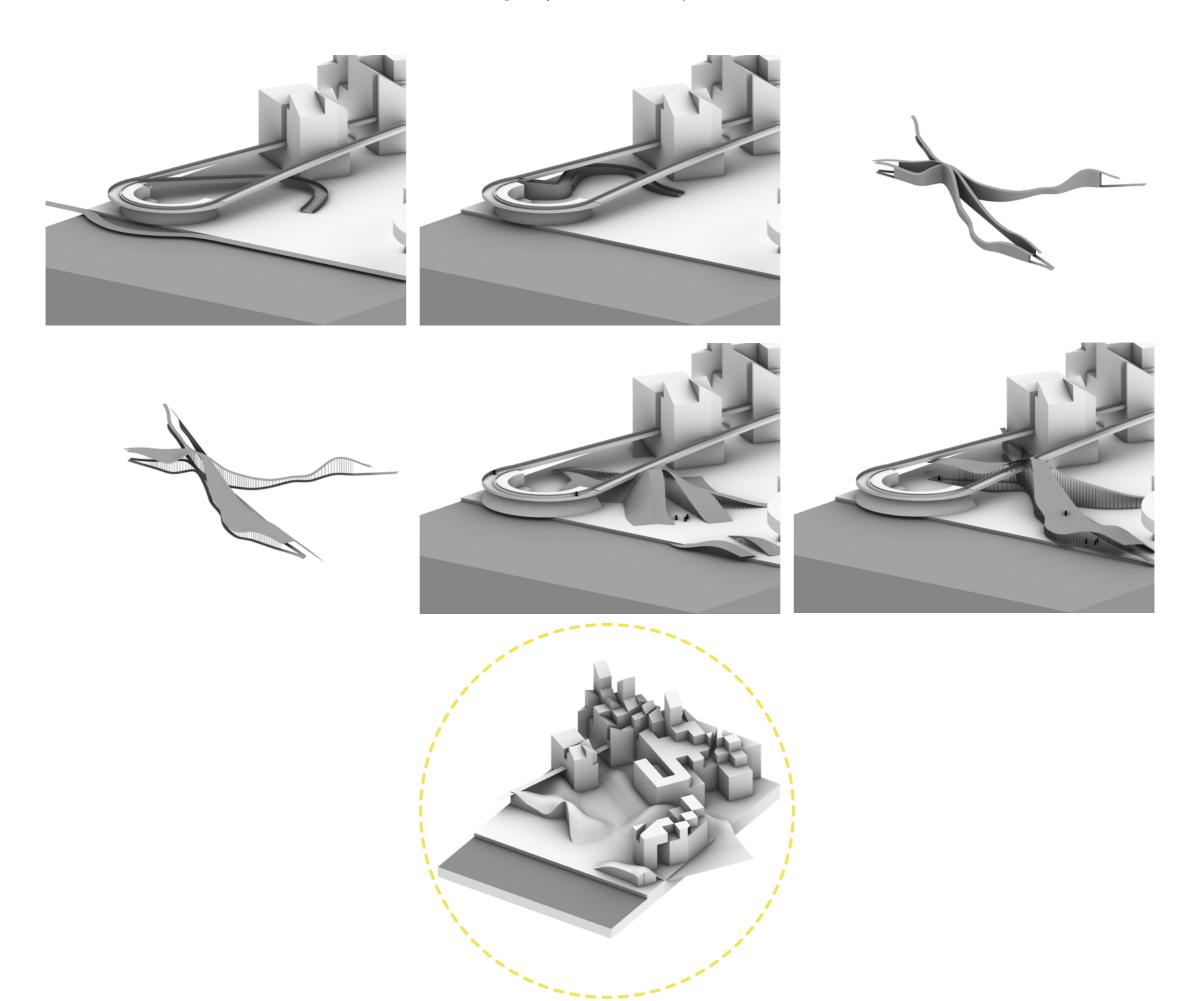
Superkilen - Copenhagen - BIG

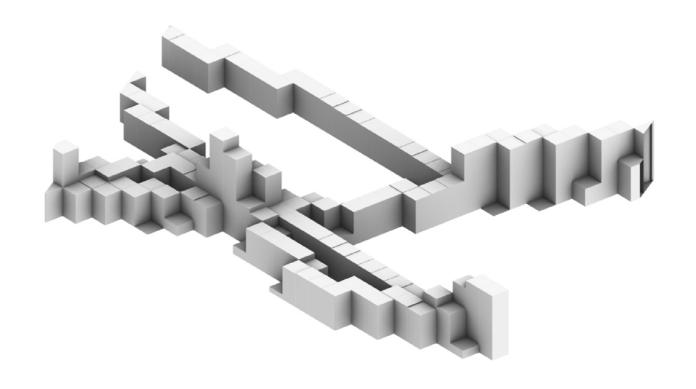
Bicycle bridge - Utrecht - NEXT architects

Sydhavn Skole - Copenhagen - JJW Arkitekter

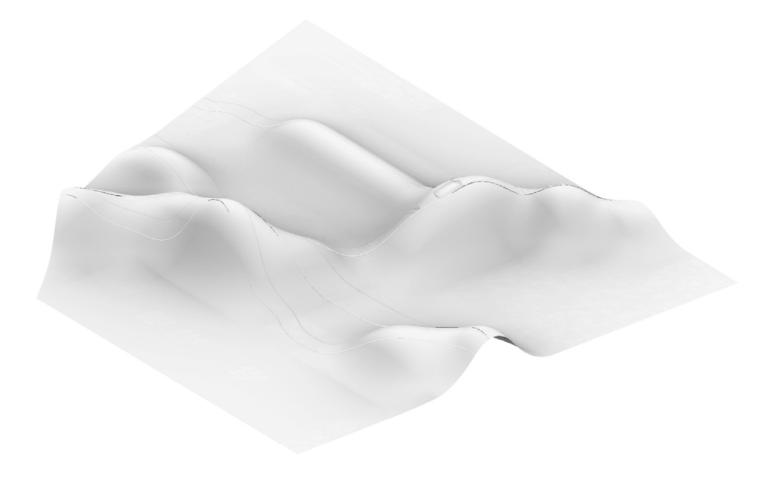
## METHOD

GEOMETRY WORKFLOW

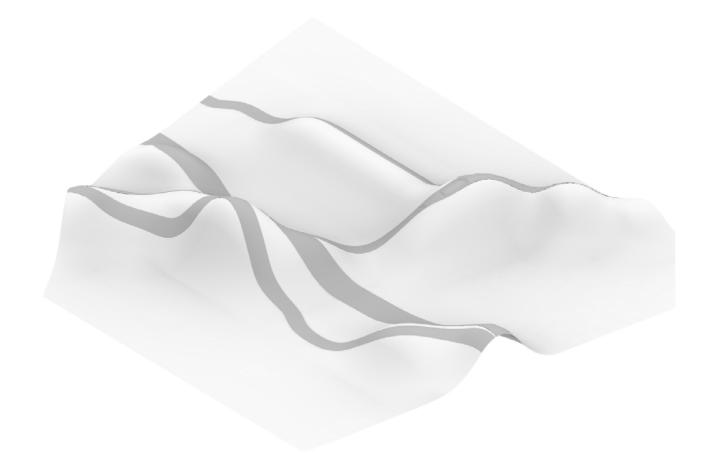




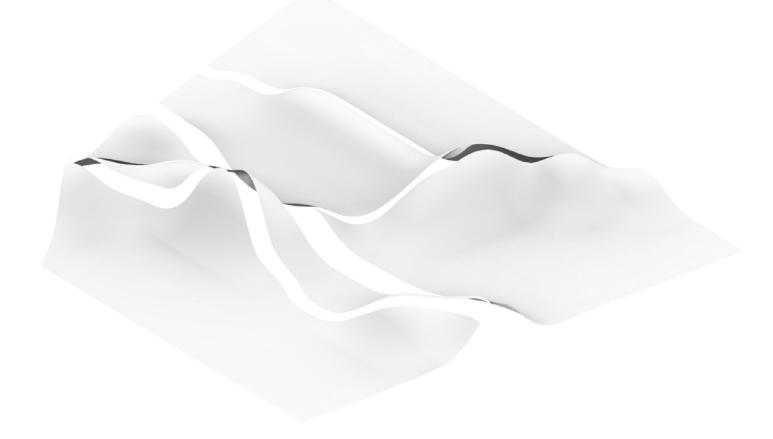
3D representation of pedestrian mobility analysis (grasshopper + pedsim)



turning analysis into organic surface (drape)



tracing outlines of paths (curve + offset curve + split)



removing path topography surface



inserting volume into suprastructure



negotiation with neighbours

redesigning path on left side + removing stairs (HL+IP)



evaluating spoaces

turning organic surfaces into volumes (buildings and roofs) (extrude + loft + patch + split)



bringing the water front in

(offset curve + split)



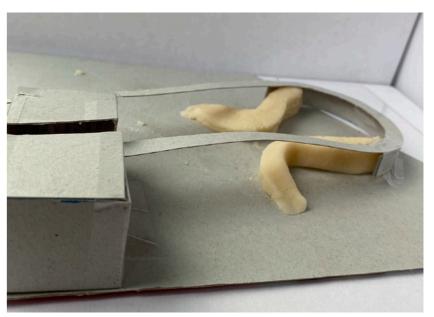
creating play landscape that also guides rainwater (curve + patch + drape)











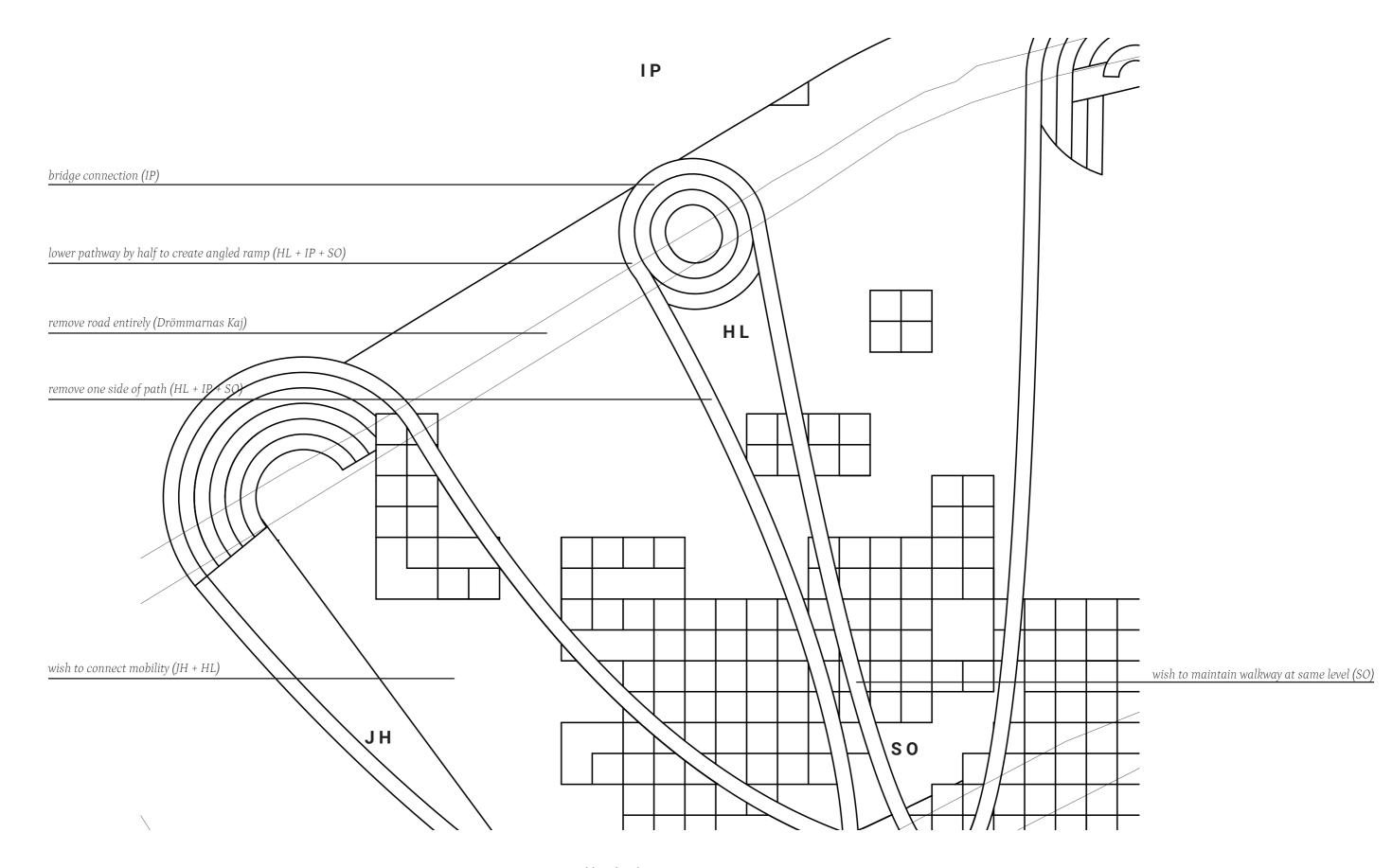
cardboard + clay scale 1:500

28

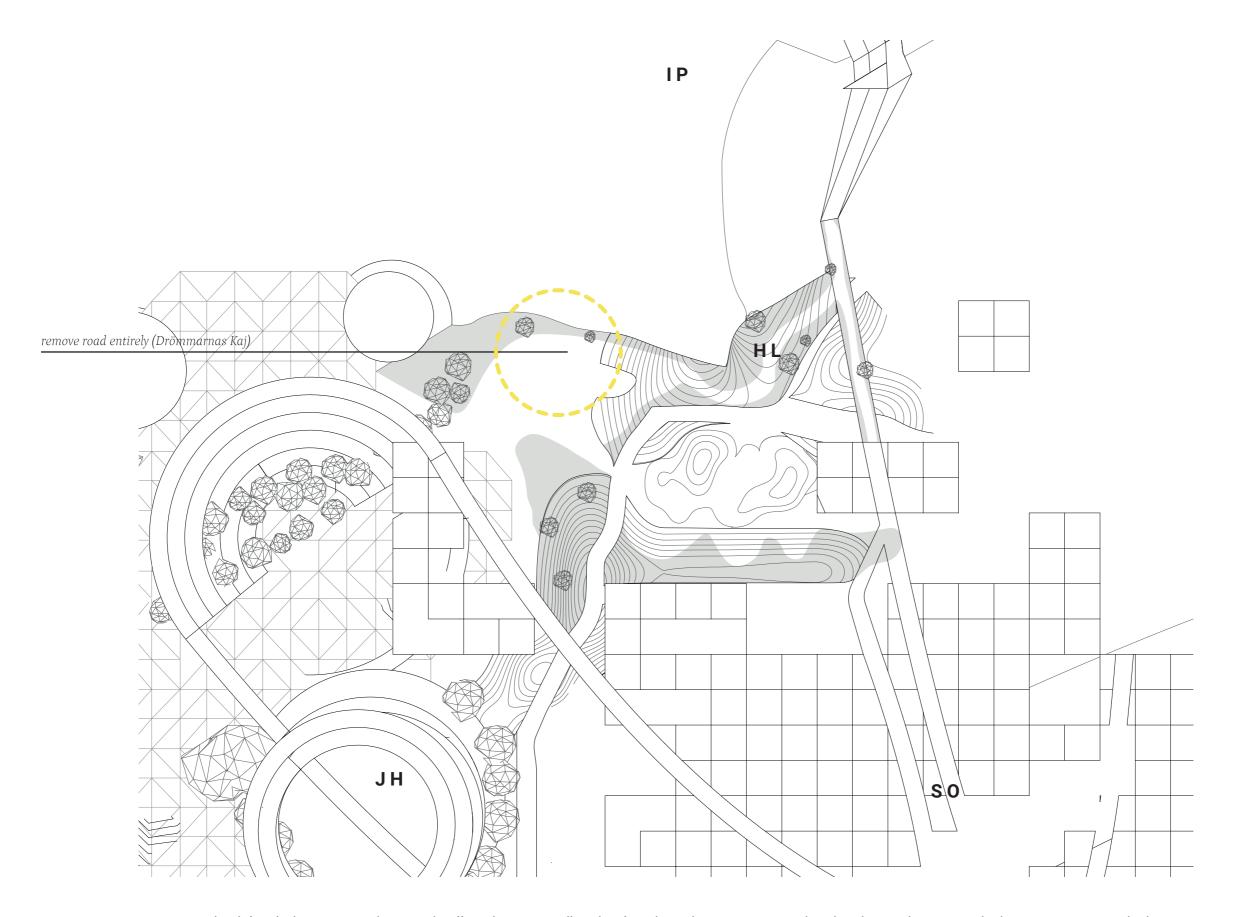


## METHOD

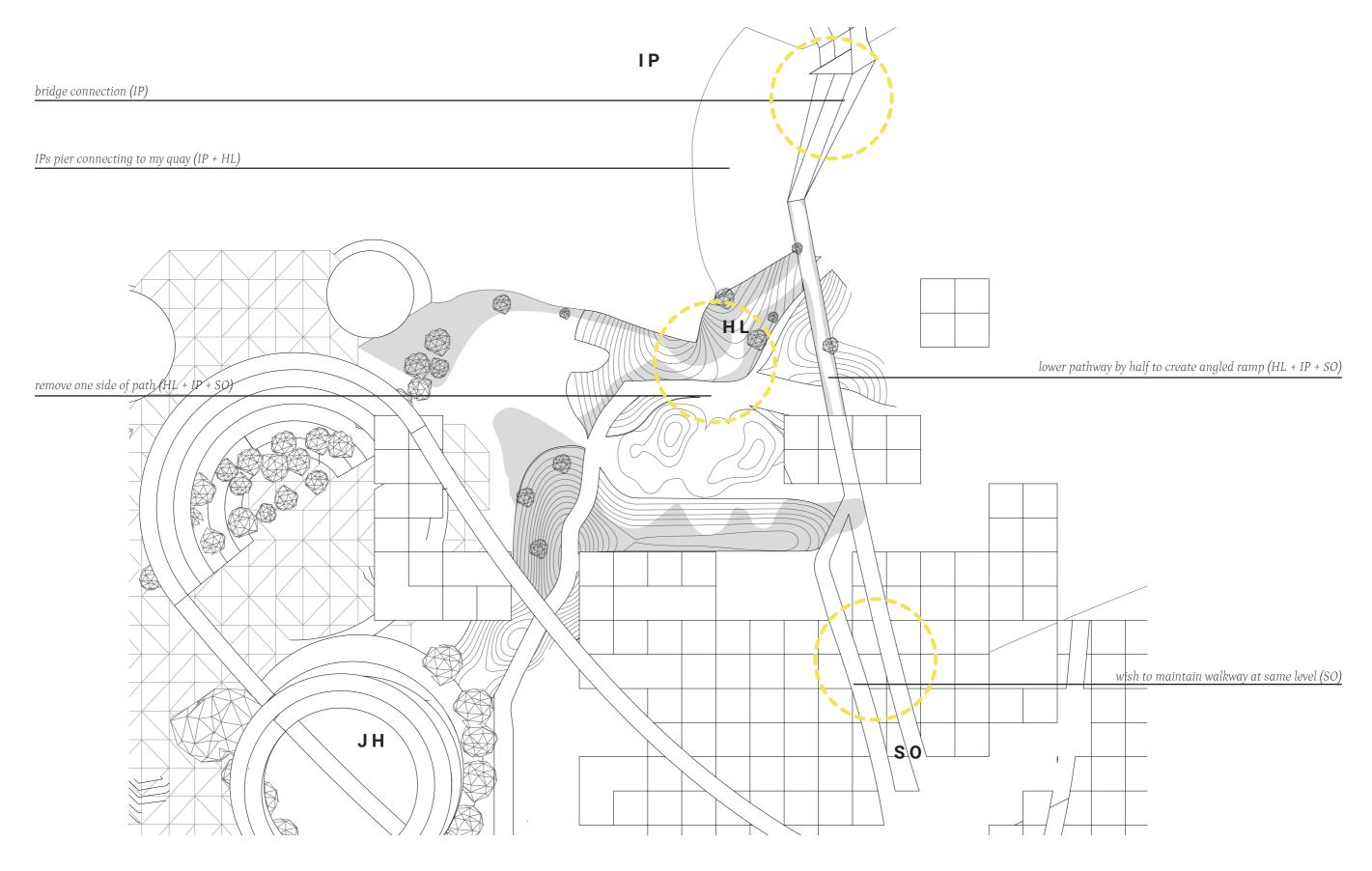
BOUNDARY NEGOTIATION



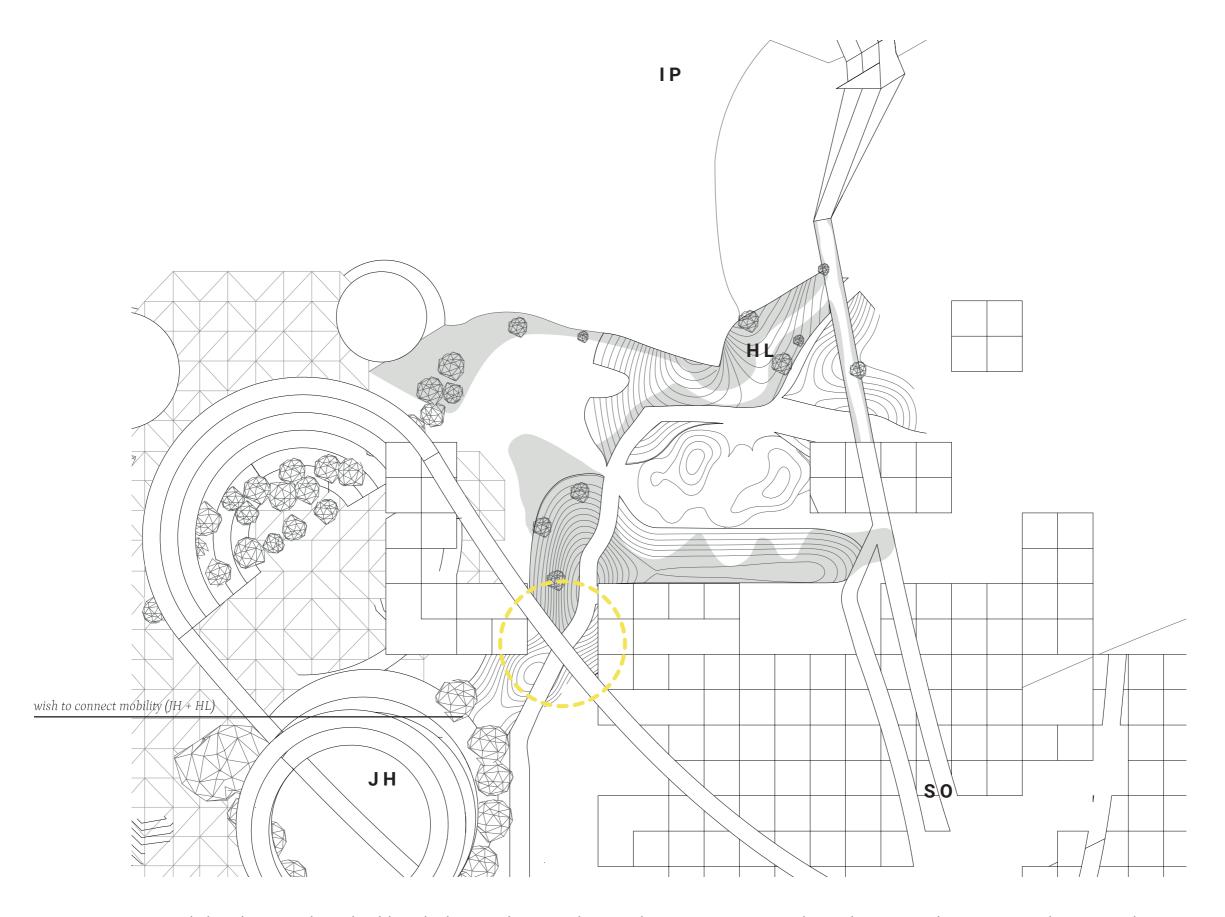
neighbourhood starting pooint



 $General\ wish\ from\ both\ teams\ to\ avoid\ motorized\ traffic\ in\ the\ area,\ as\ well\ as\ identifying\ the\ road\ as\ an\ unnecessary\ obstacle\ without\ vital\ connections\ lead\ to\ us\ removing\ it\ completely.$ 



Wish from IP to connect Ringön and Gullbergsvass together with wish from me to connect ground level with suprastructure path lead to renegotiation of the design of this connection point. To ensure accessability for pedestriands and bikes, the connection point had to be lowered. We chose to angle the path from SOs area towards me + IP to not disturb SO but still solve mine + IPs issues. To makes space for a larges connection in my project, we also redrew the path stretch, removing parts on the left-hand side.



 $As both \ I \ and \ JH \ were \ working \ with \ mobility \ and \ pedestrian \ paths, we \ wanted \ to \ ensure \ that \ movements \ were \ connected \ across \ the \ projects, \ resulting \ in \ a \ connection \ between \ our \ paths$ 

## METHOD

PROGRAMME DISTRIBUTION

### Programme

### USE OF SPACES

#### IDEA

gradient of speed for activities across area

### ANALYSIS

high speed activities is dependent on visual overview for experienced safety

high level of visual overview = possibility for high speed activity

low speed activities is favoured by more intimate spaces and experienced safety from fast-moving entities

high level of intimacy = possibility for low speed activity, given than it does not intersect with high speed activity

#### **POSSIBLE ACTIVITIES**

high speed activites low speed activites

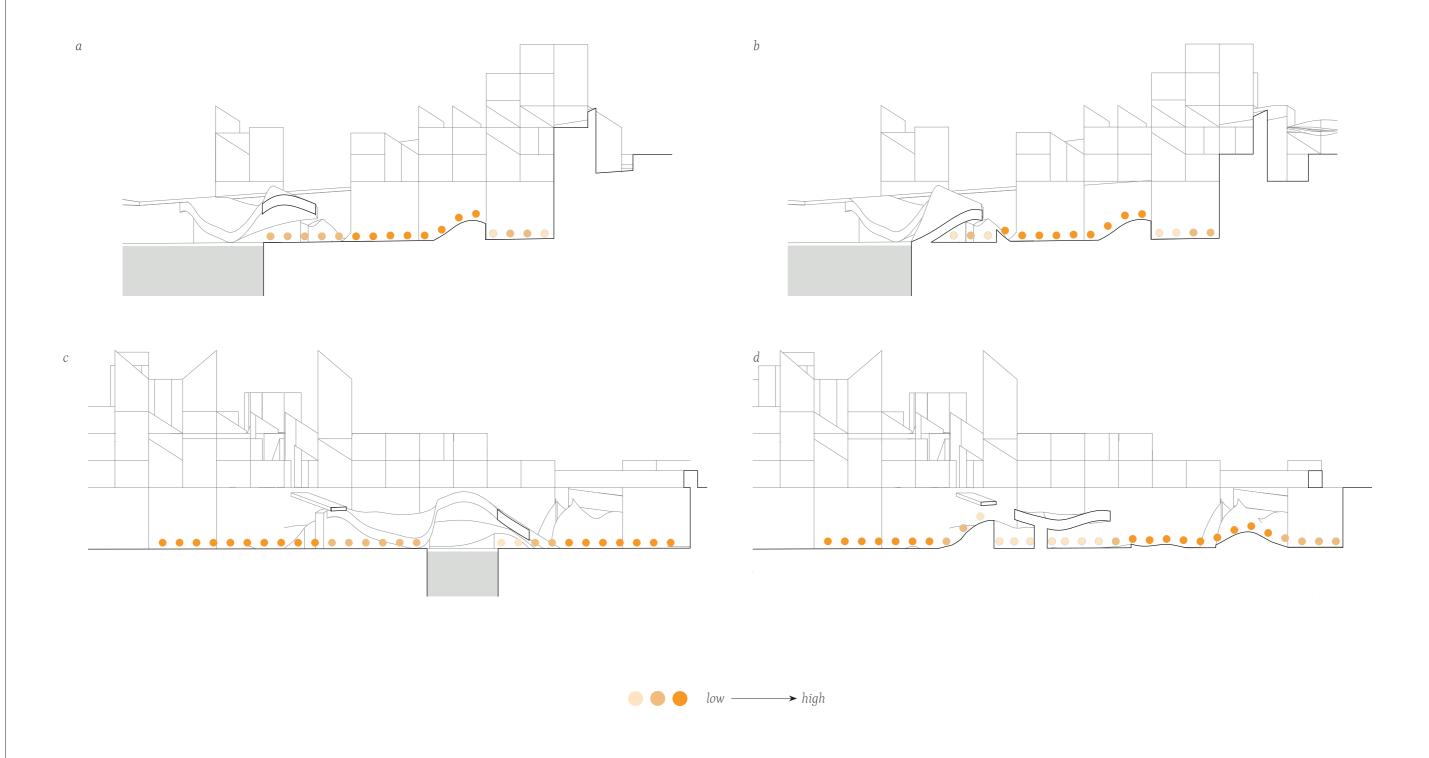
- walking
- running
- biking
- skateboard
- rollerskates
- sitting
- eating
- watching
- talking

- electric scooter

#### PHYSICAL ASPECTS OF SPEED

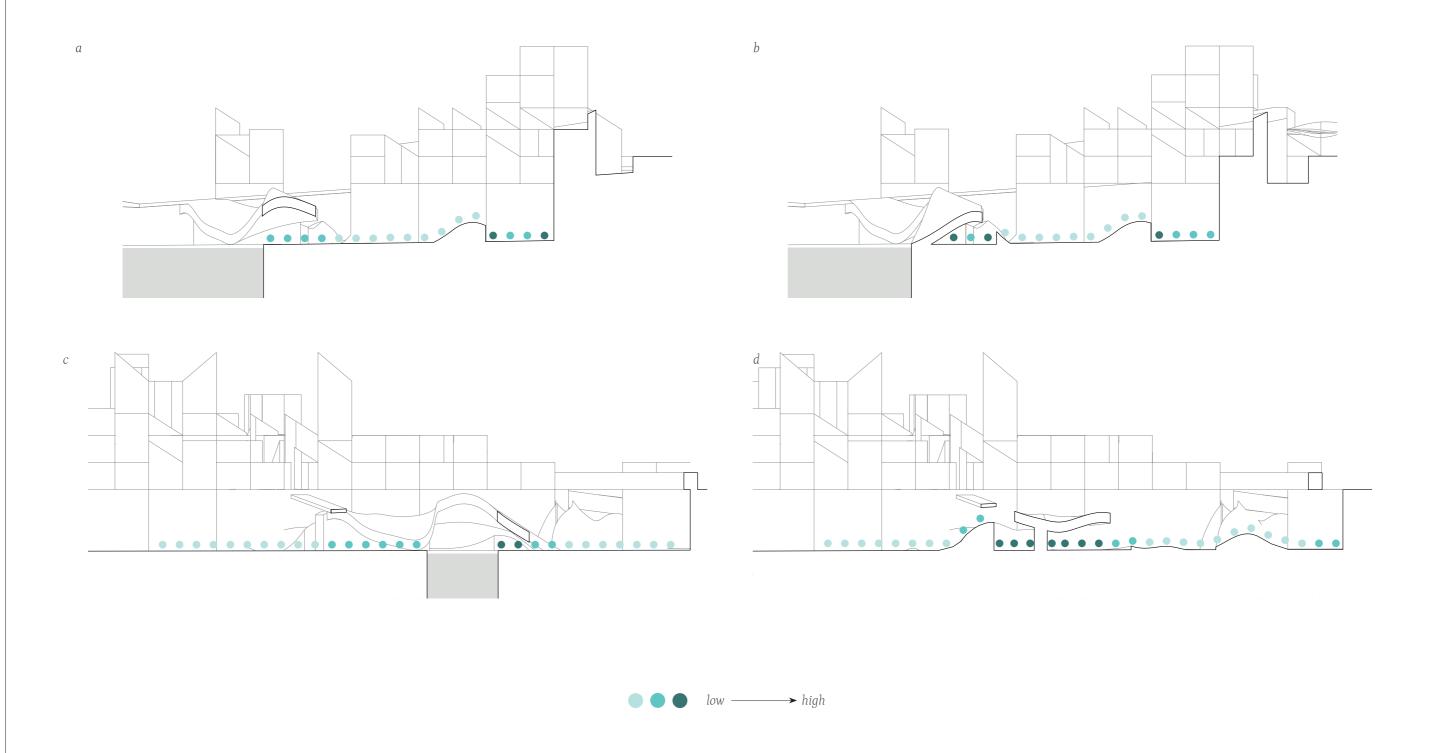
motion up and down: hills and dips motion sideways: sharp turns

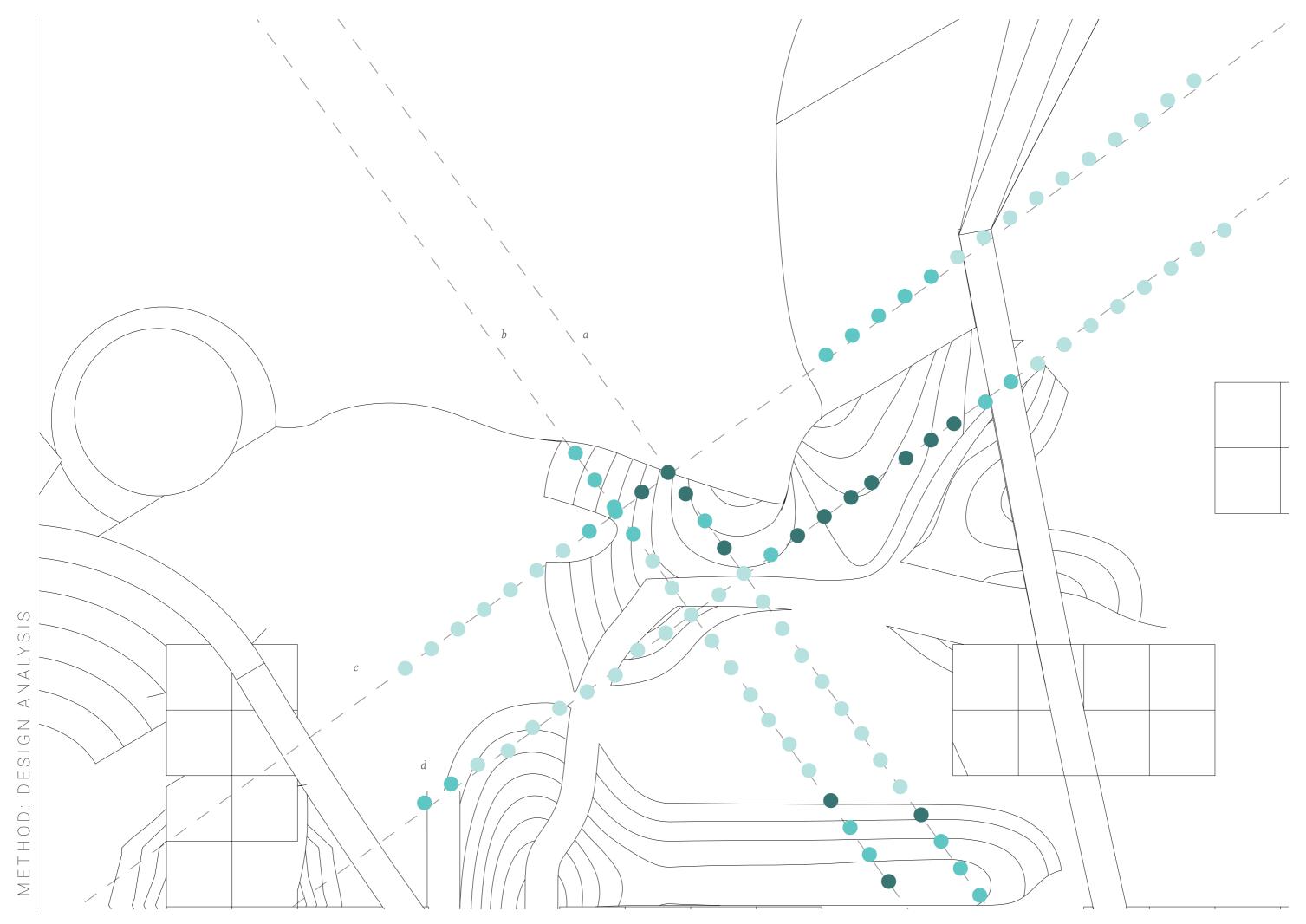
### mapping of level of visual overview

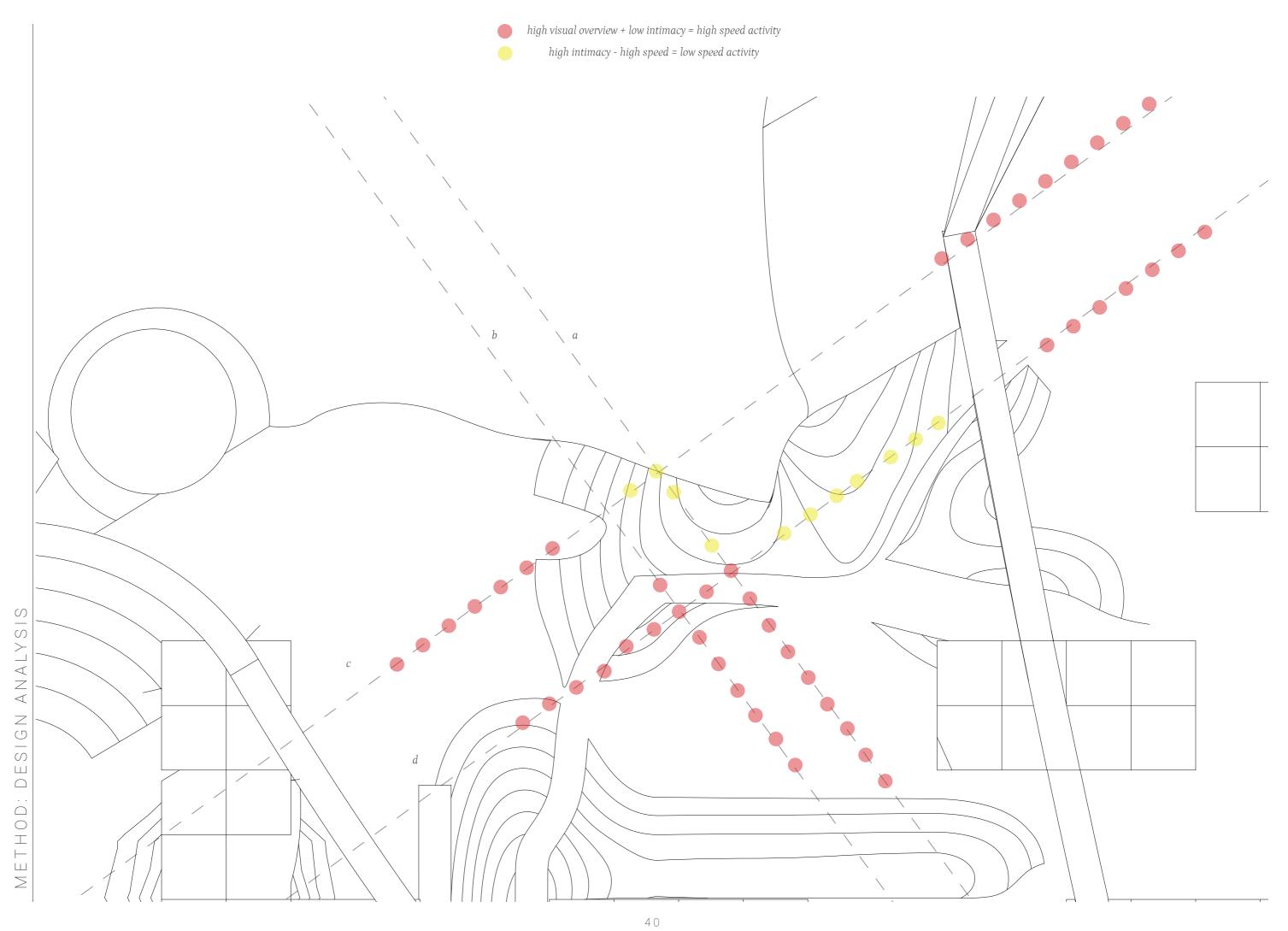




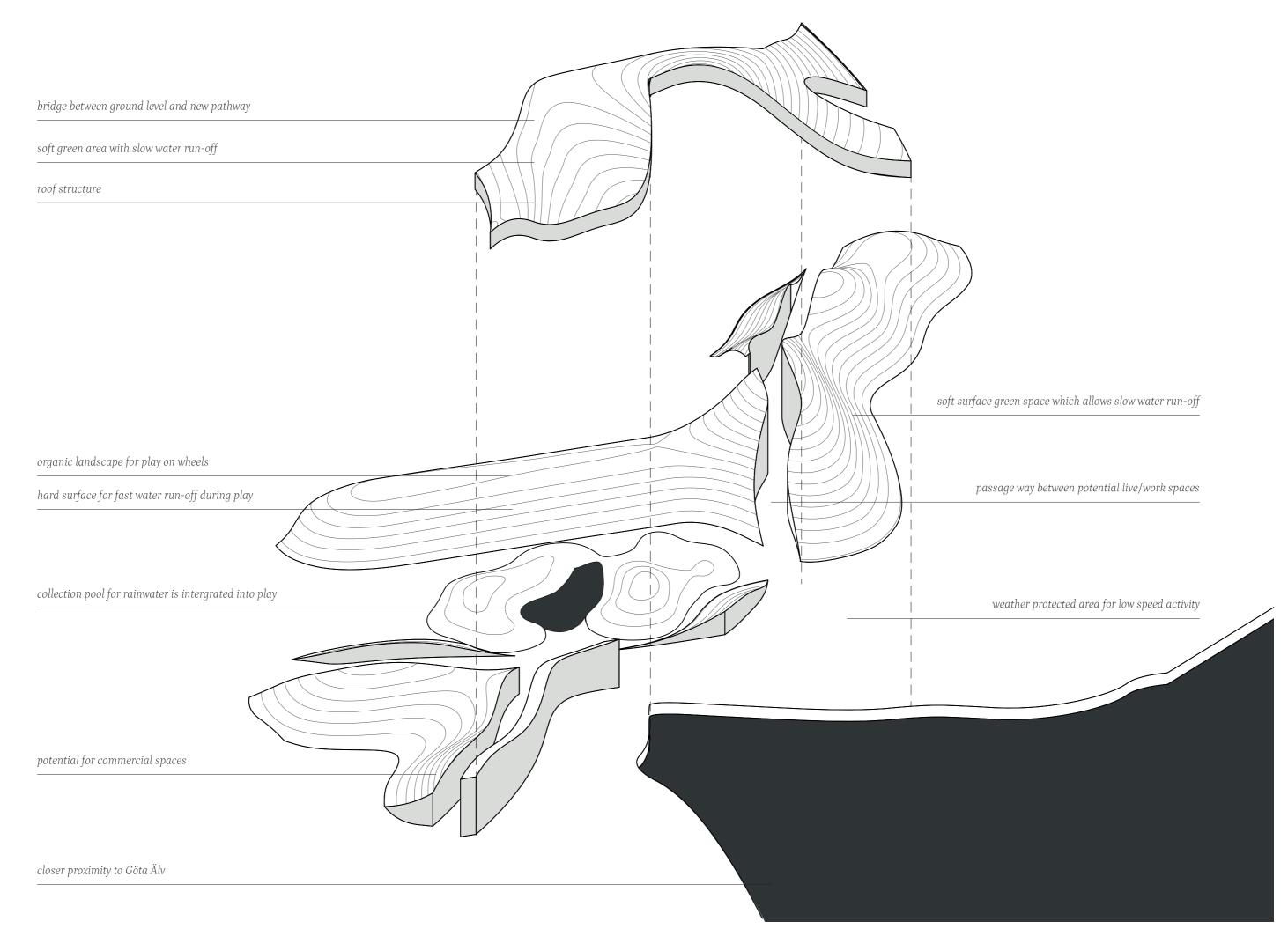
## mapping of level of intimacy

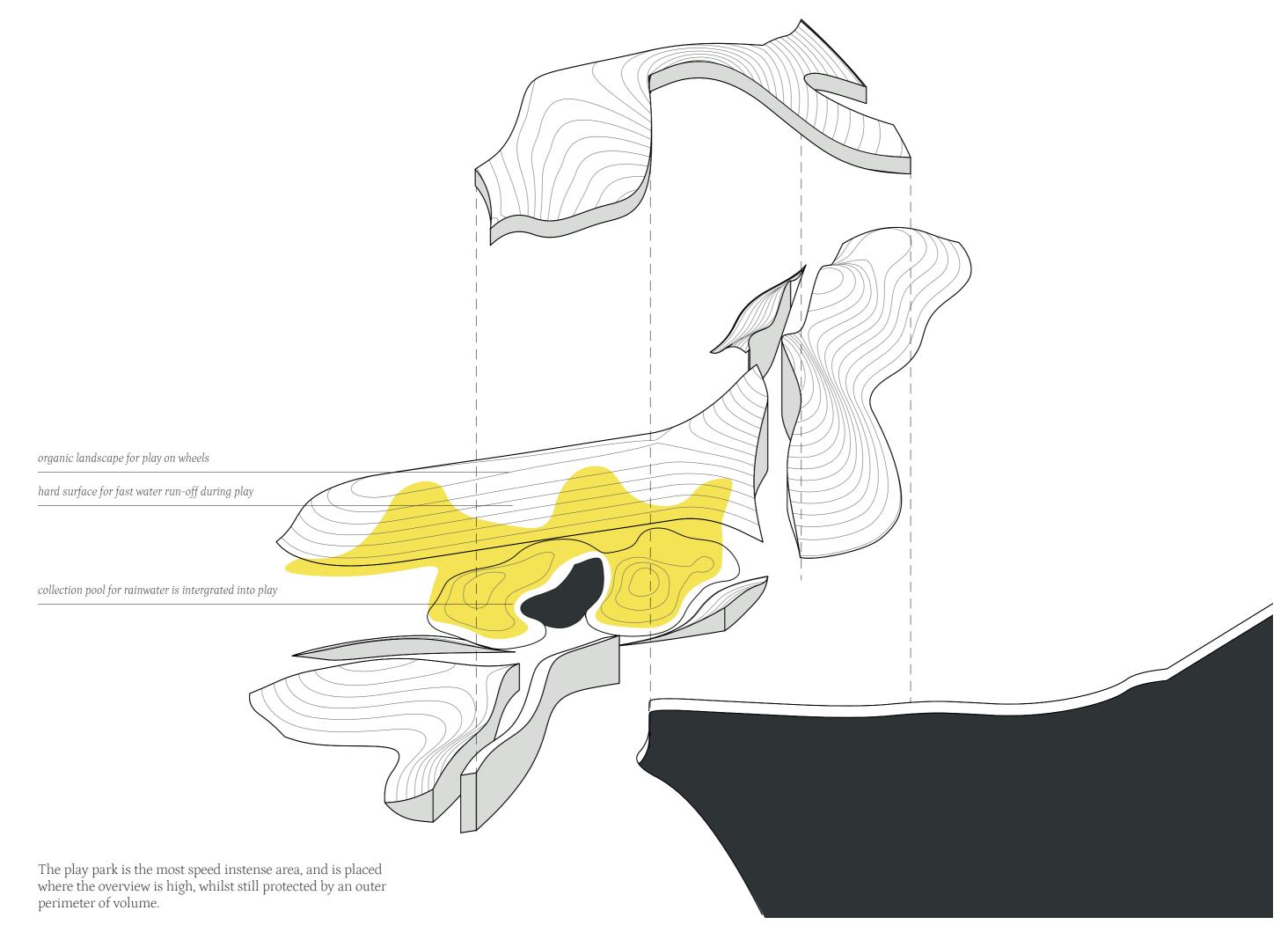


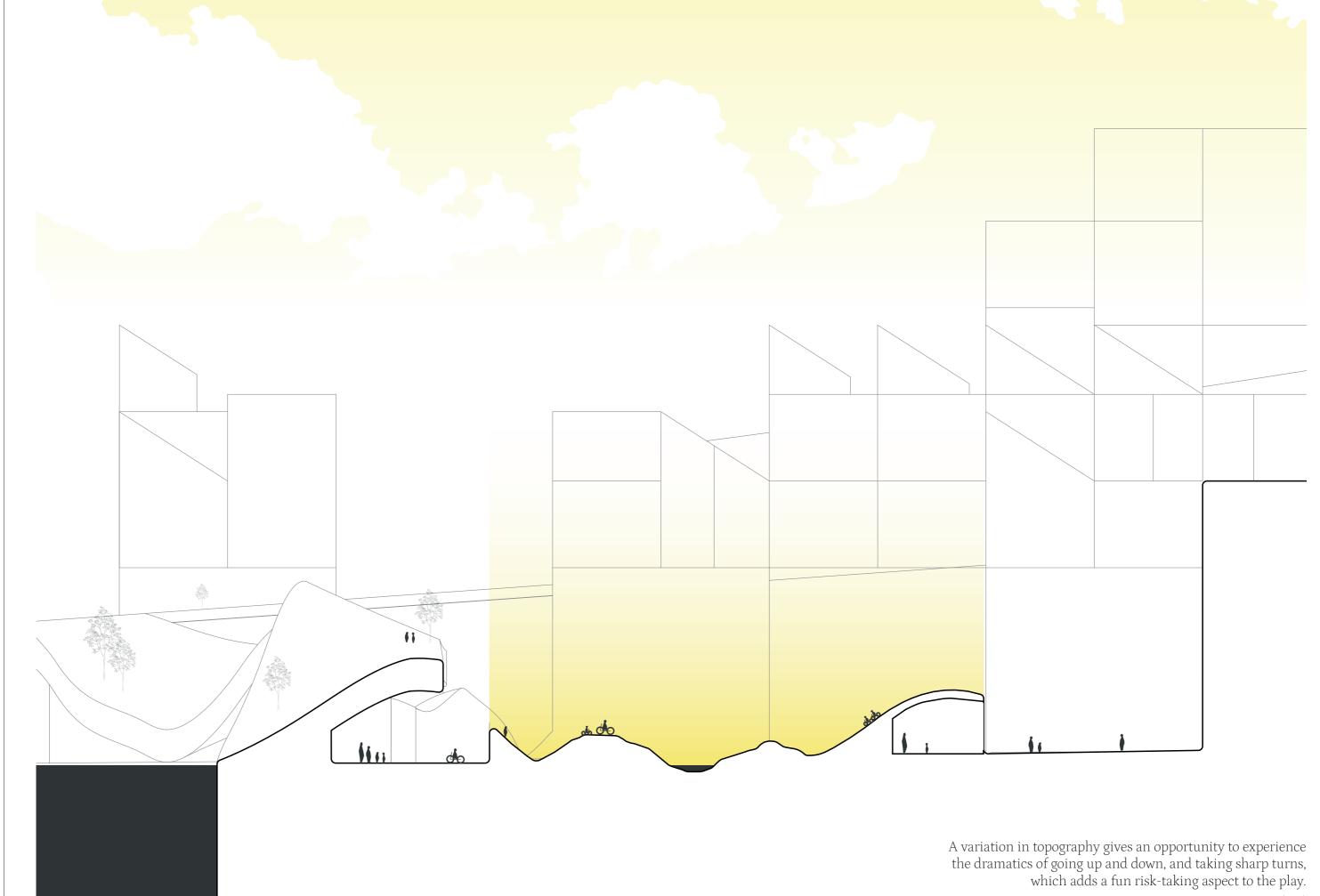




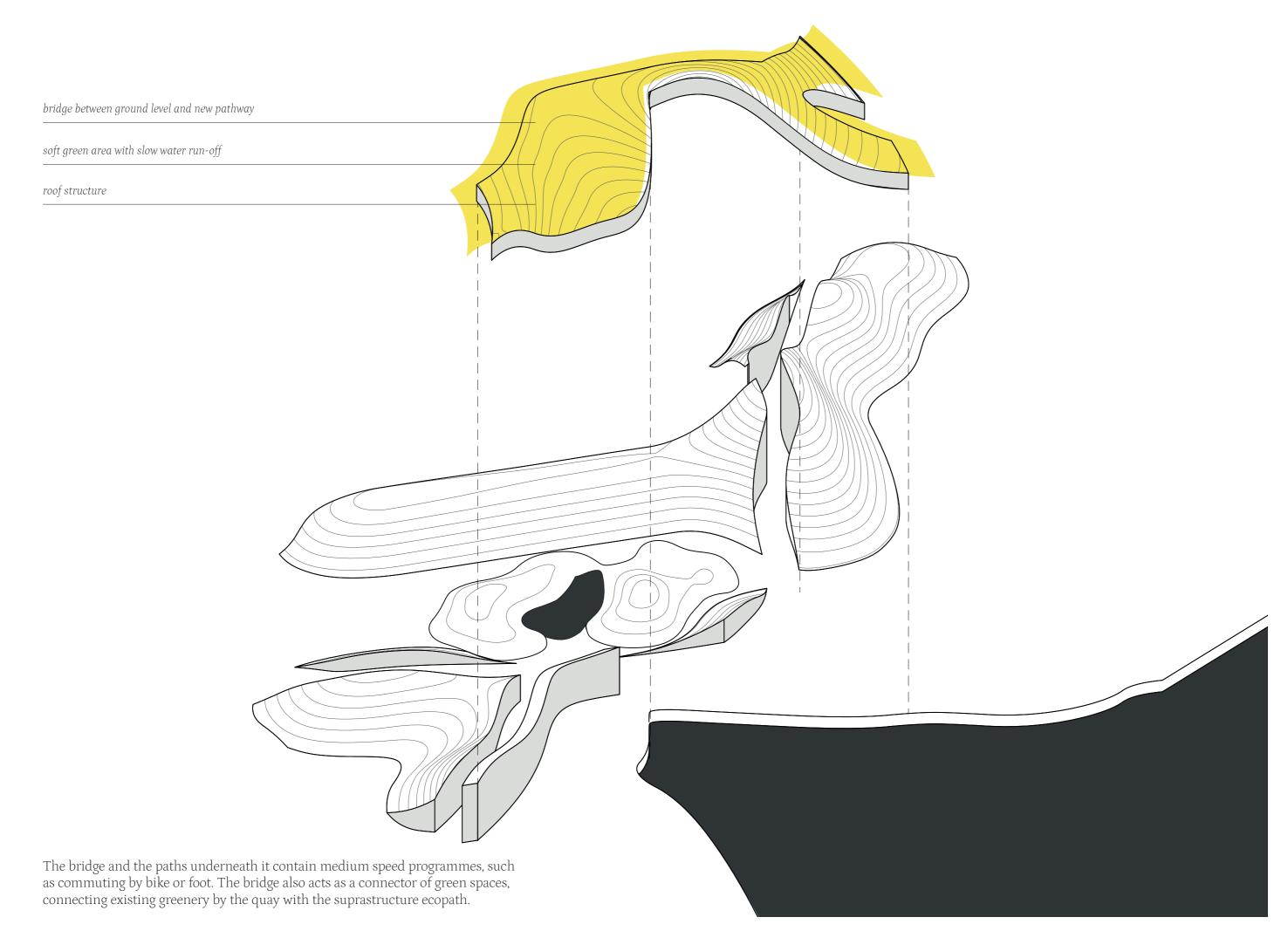
## THE PROPOSAL

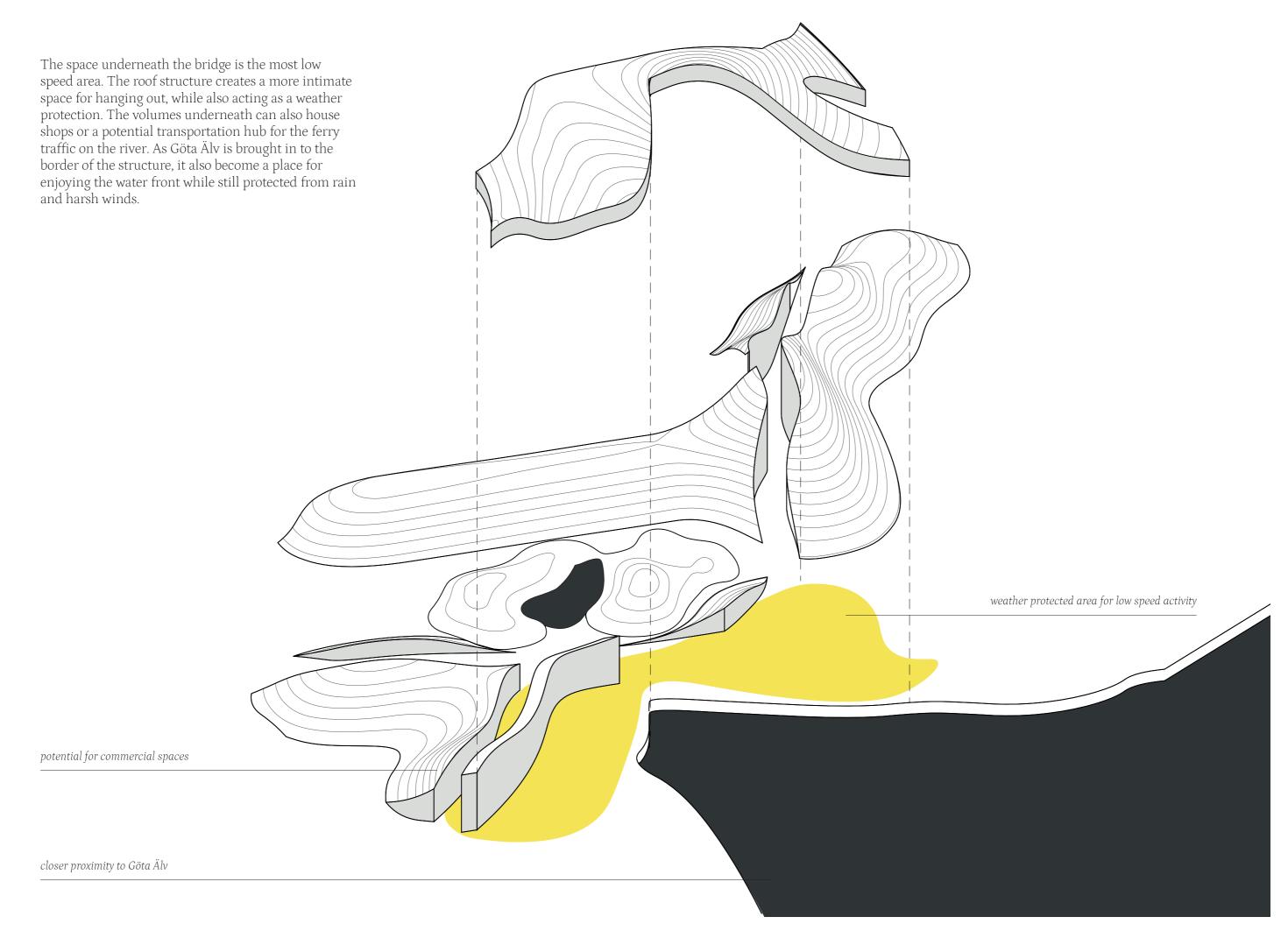


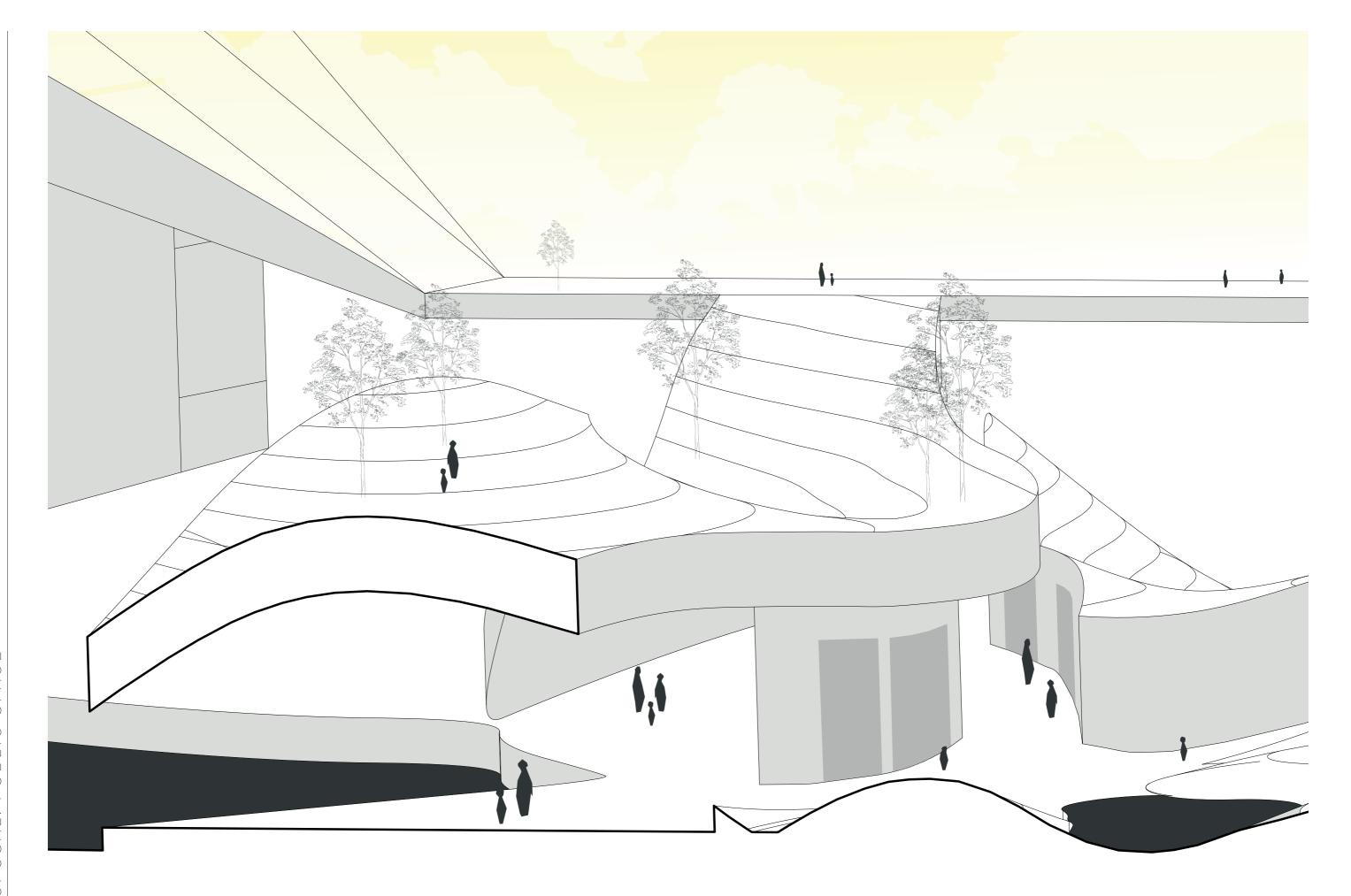




1:300 (A3)

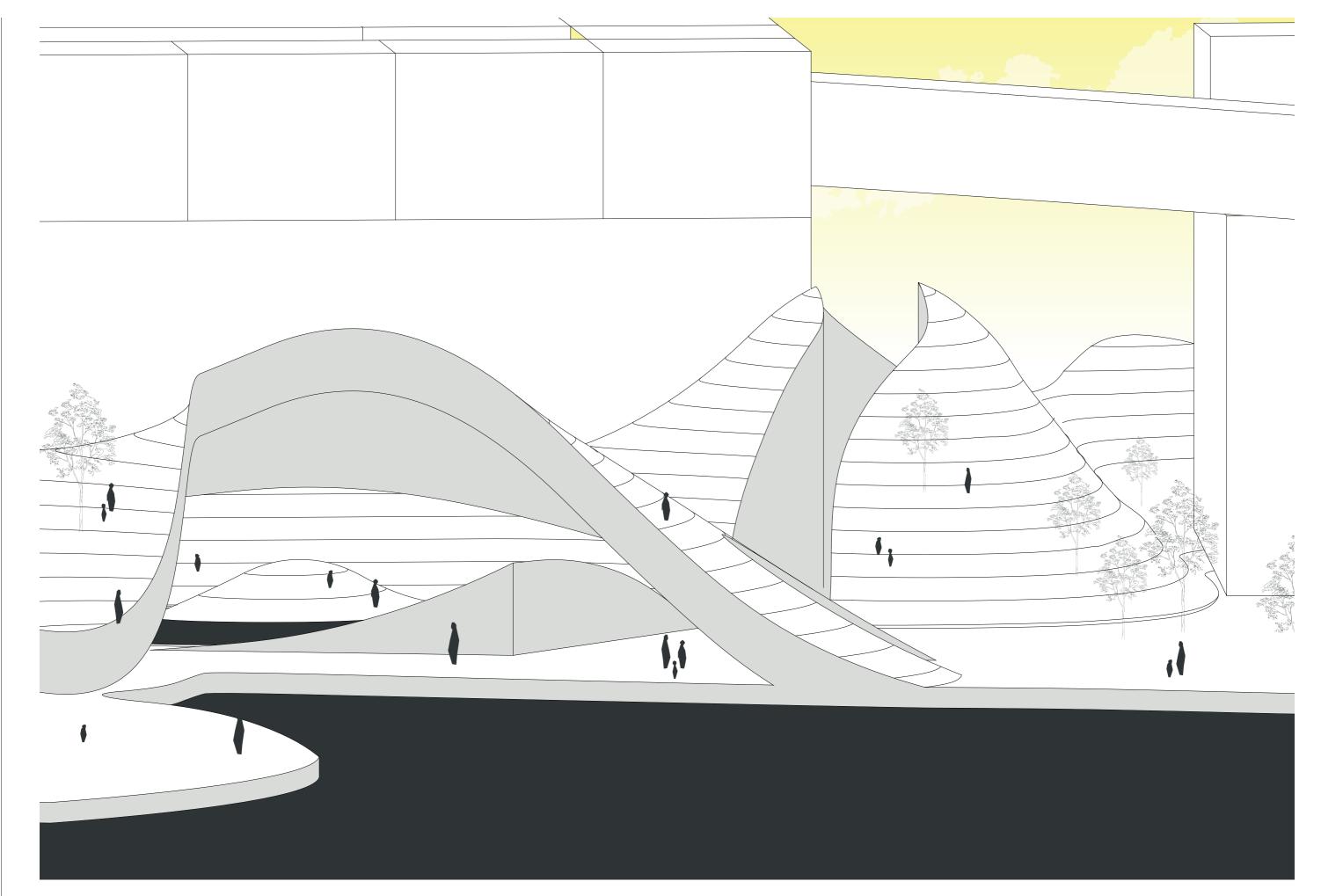




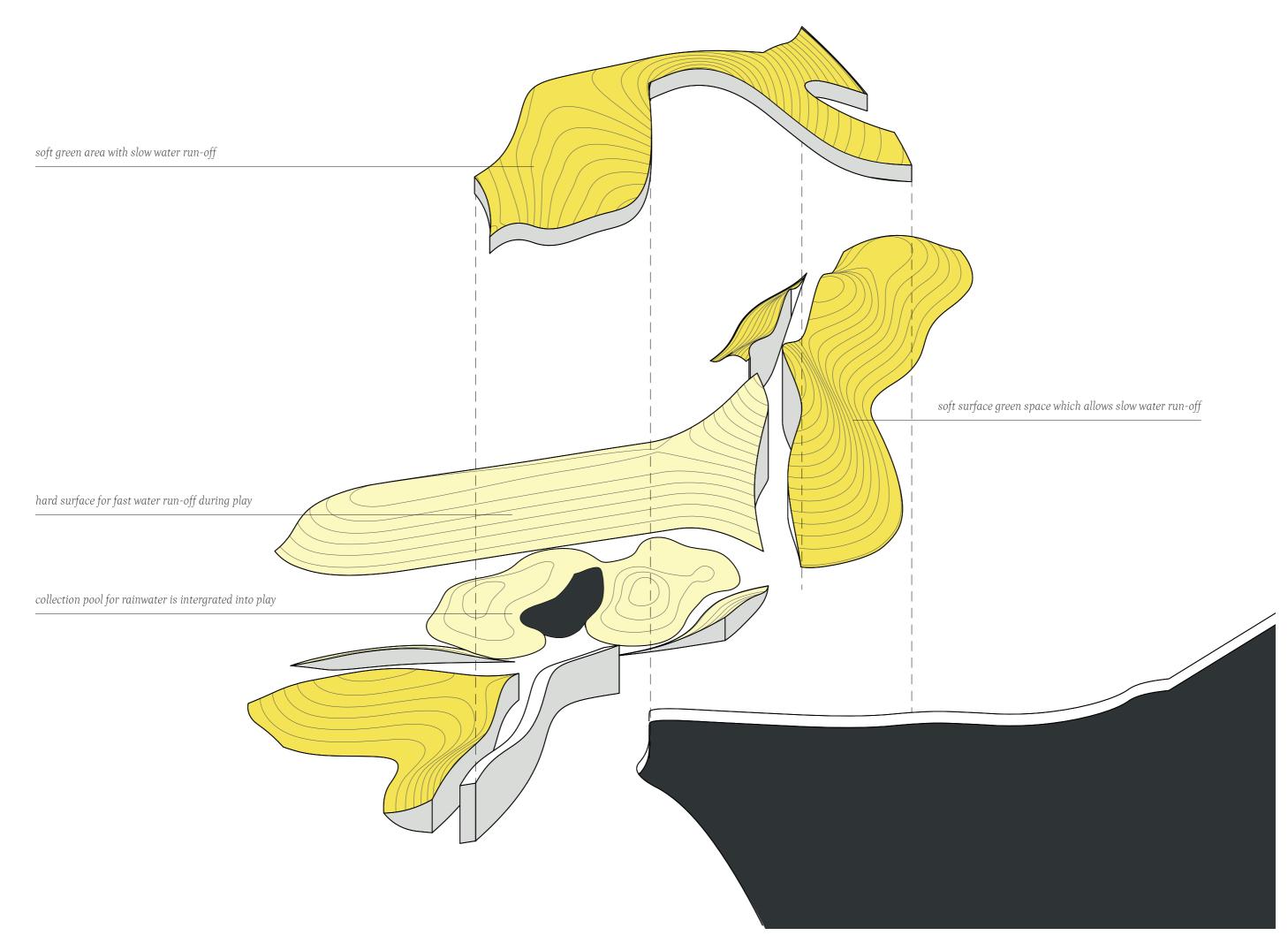


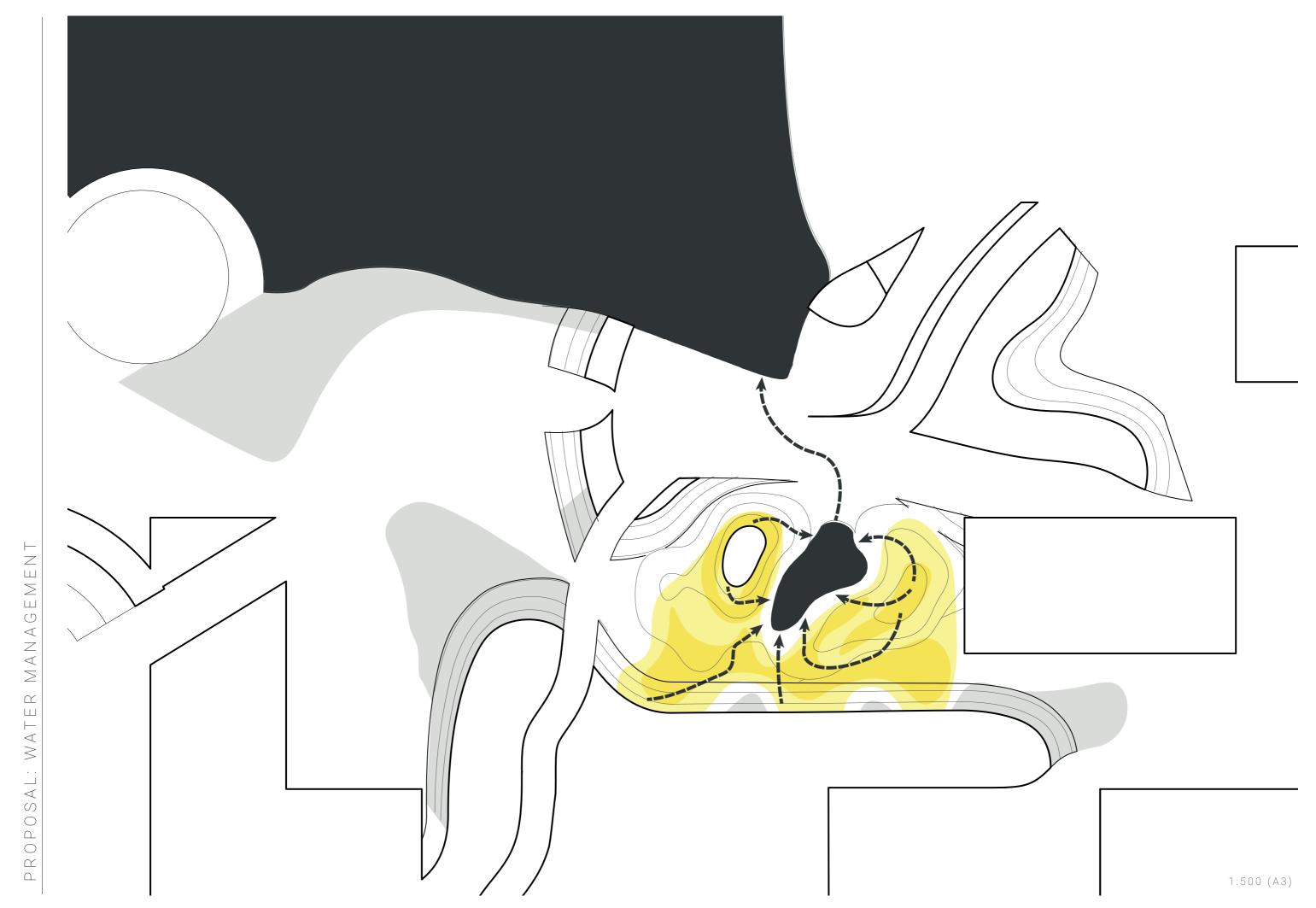
spaces underneath utilized for protected meeting places and commercial spaces

1:100 (A3)

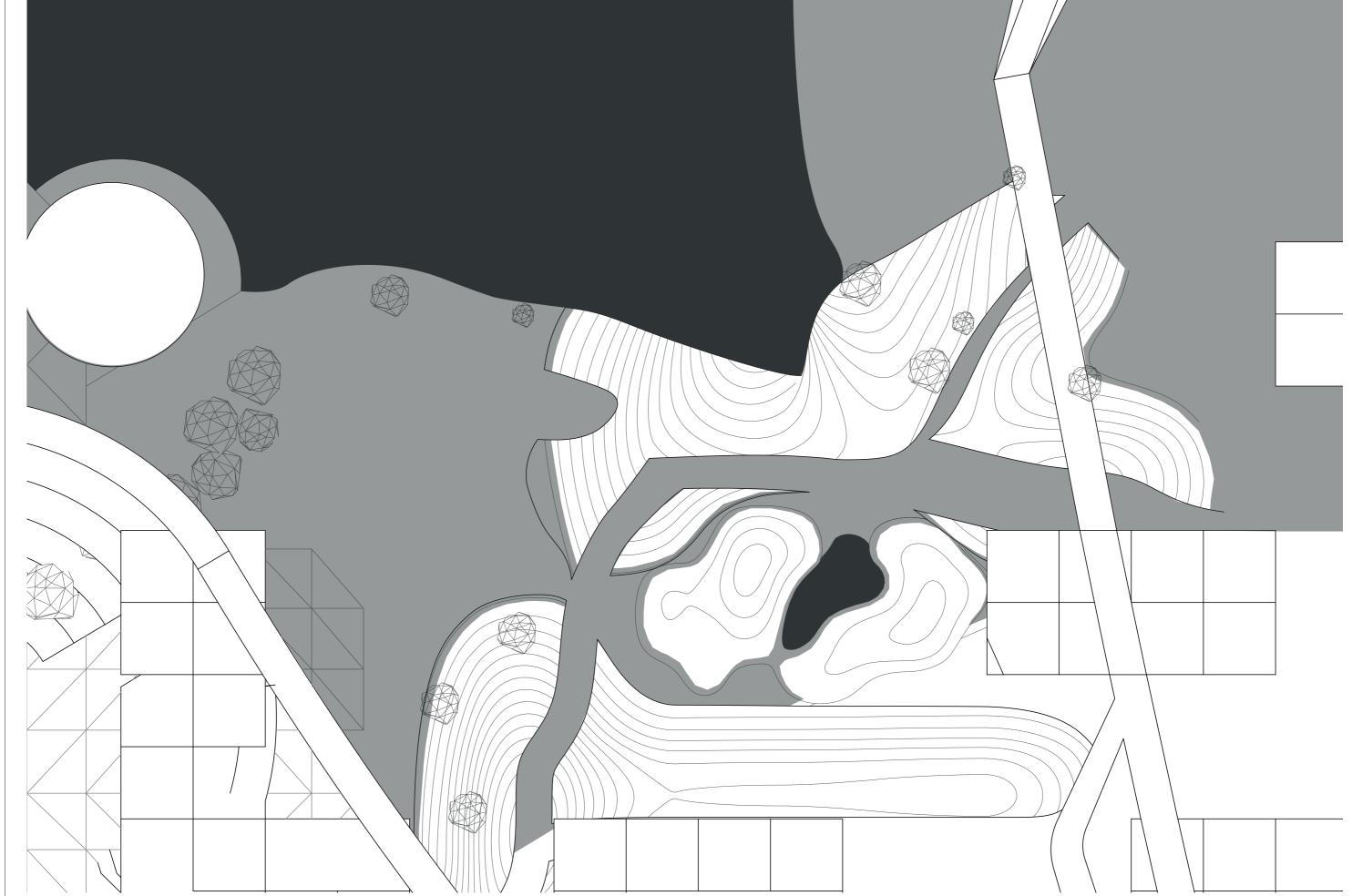


thanks to the roof structure the water front can be enjoyed with weather protection

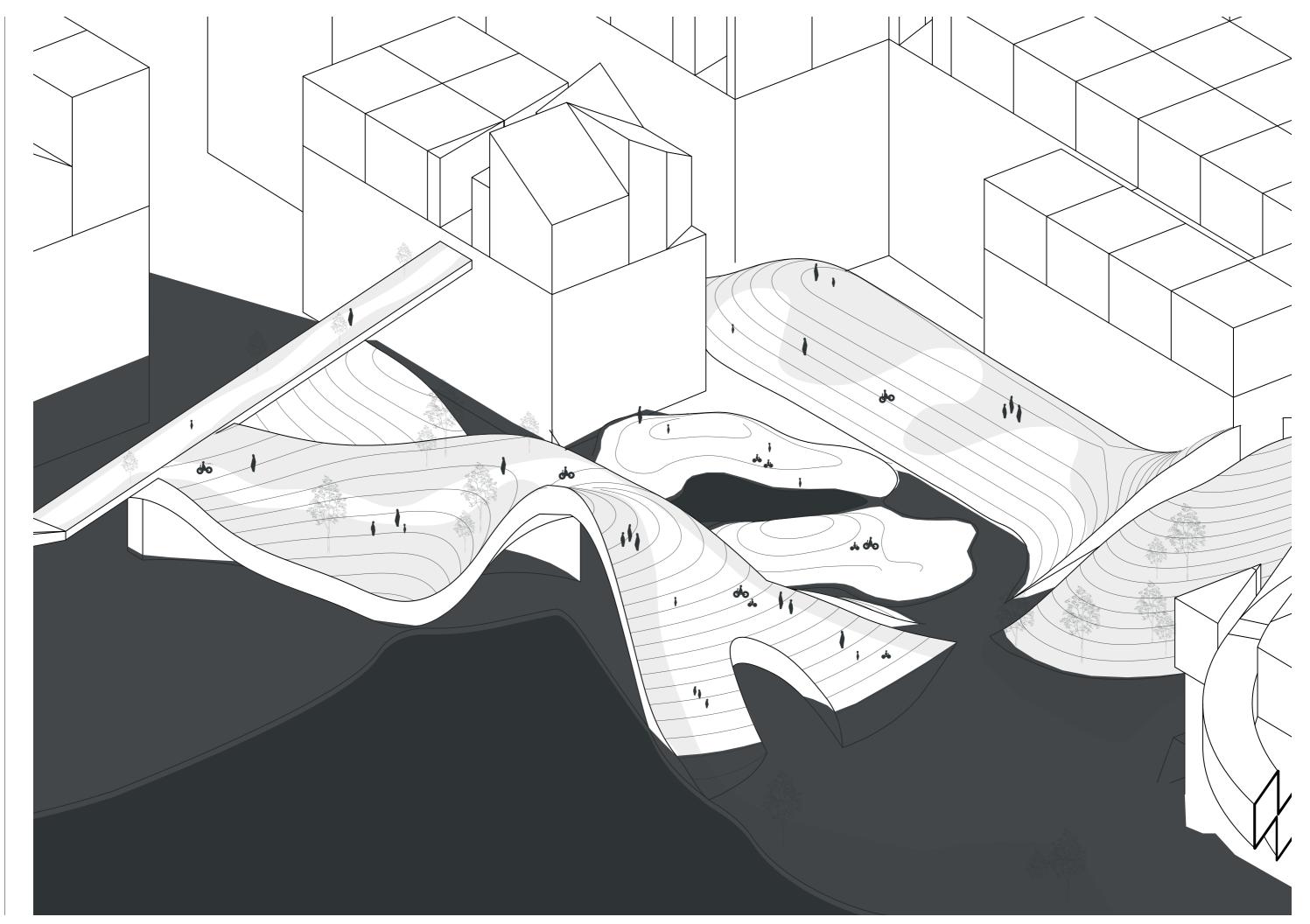




PROPOSAL: RAIN WATER RUN-OFF ANALYSIS



 $\label{thm:condition} \textit{hte topography keeps parts of the site dry during flooding events, increasing the accessability of the area}$ 



Didriksson, L. Stigell, E. (2020). Planeringsverktyg - stödjande fysiska livsmiljöer [Brochure]. Gothenburg, Sweden: Author.

Stevens, P. (2018, October 05). New video documents NEXT architects' sinuous bicycle bridge in the netherlands. Retrieved December 11, 2020, from https://www.designboom.com/architecture/next-architects-dafne-schippers-bicycle-bridge-utrecht-netherlands-10-02-2018/

Superkilen: Nørrebro. (n.d.). Retrieved December 11, 2020, from https://www.visitcopenhagen.com/copenhagen/planning/superkilen-park-gdk707822

深圳市建筑工务署. (n.d.). 总投资35亿!深圳自然博物馆建筑设计方案揭晓!. Retrieved December 11, 2020, from https://mp.weixin.qq.com/s/D5cmvghqCS1CKgJCKITxAg