



MATTEO BIELLA / P5 Presentation // The Hybrid: Skatepark & Urban facilitator in Bandung

1

URBAN ANALYSIS
PROBLEM STATEMENT

2

RESEARCH
ARCHITECTURAL GRAMMAR / ALGORITHM
DESIGN PROCESS

3

DESIGN / Skatepark // Urban facilitator
PROGRAM

4

FABRICATION / CNC Milling
ASSEMBLY
STRUCTURAL CONCEPT

5

IMPRESSIONS



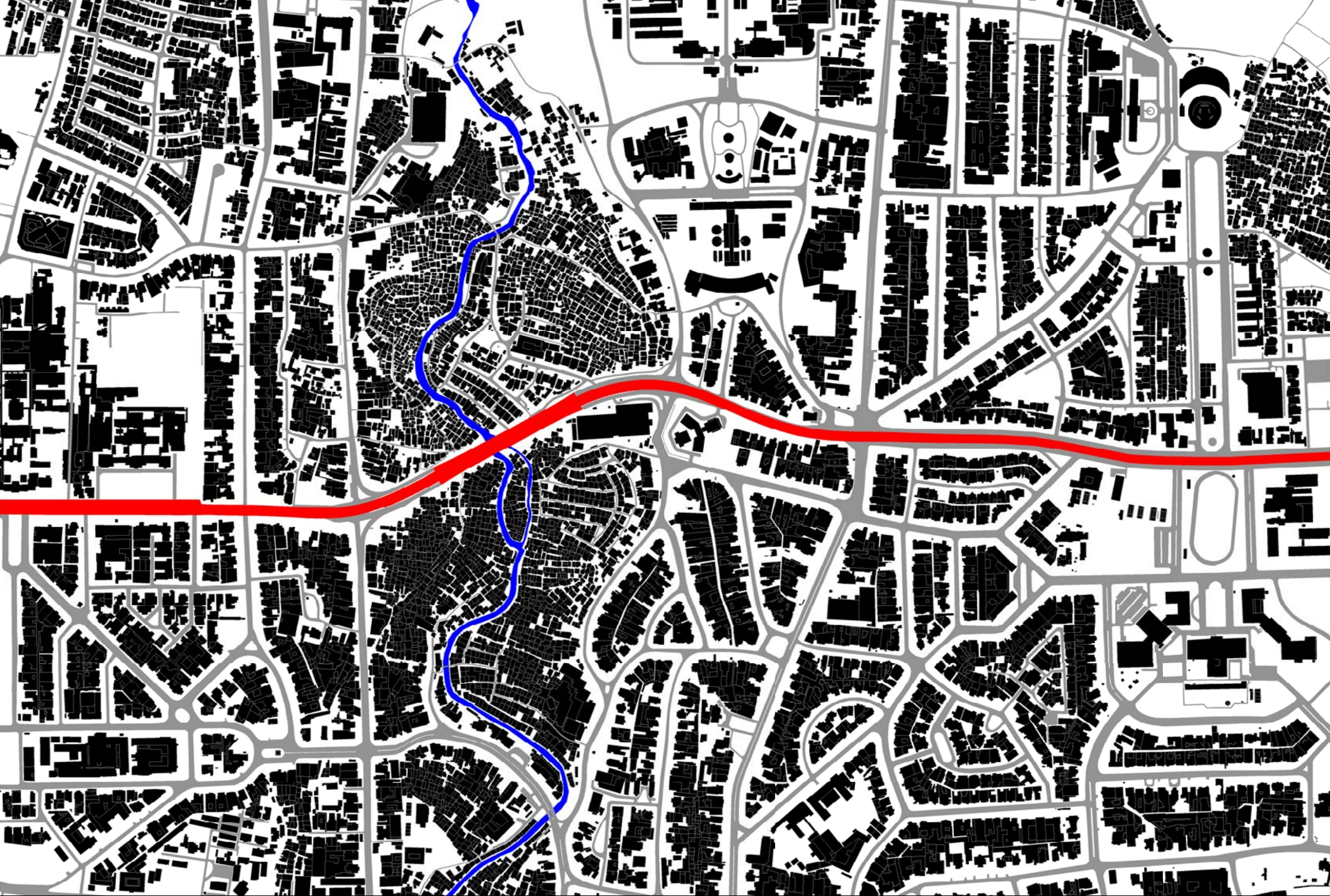
JAKARTA BANDUNG

2nd largest METROPOLITAN AREA

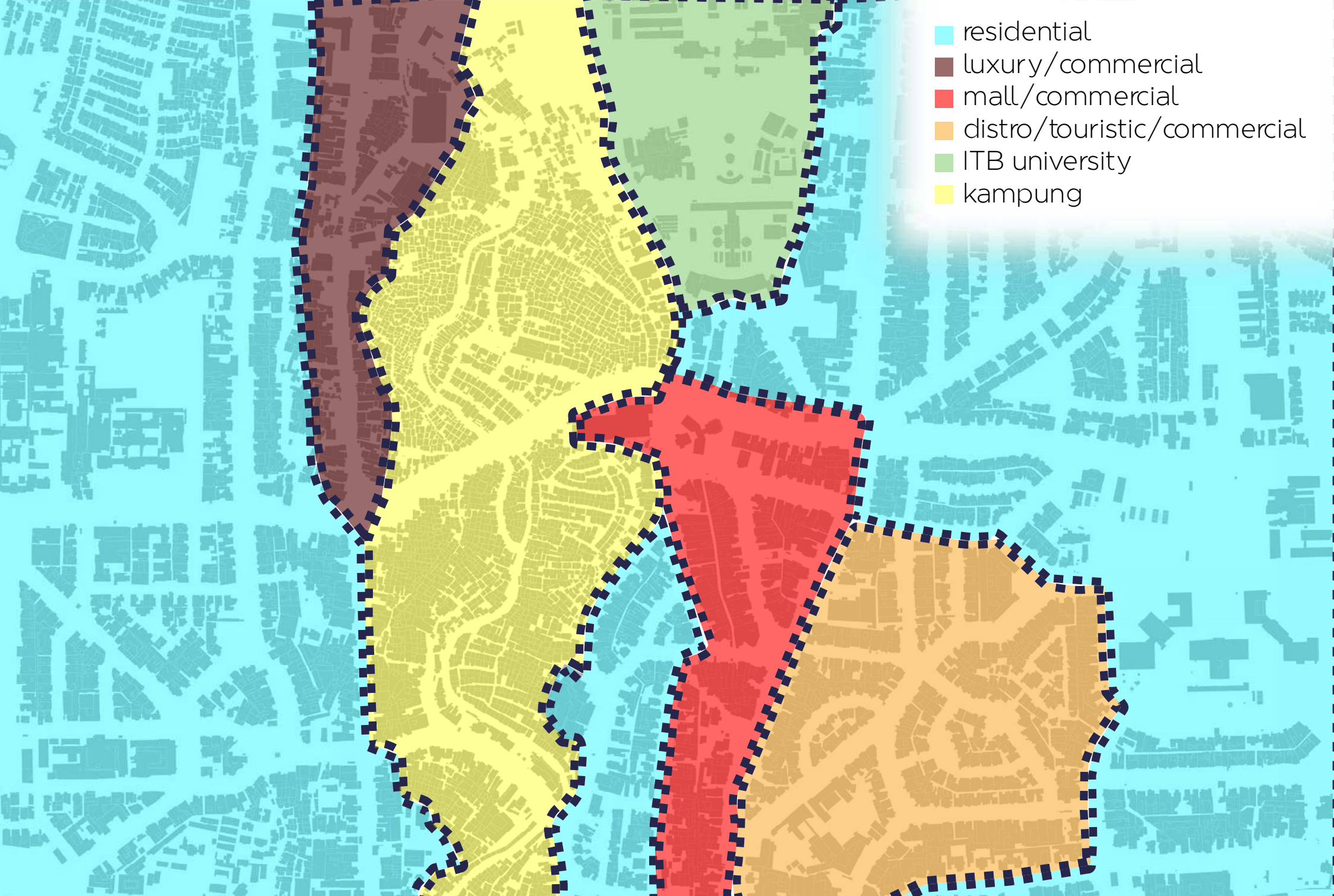
8.6 MILLION PEOPLE

MORE THAN 50% < 18 YEARS OLD

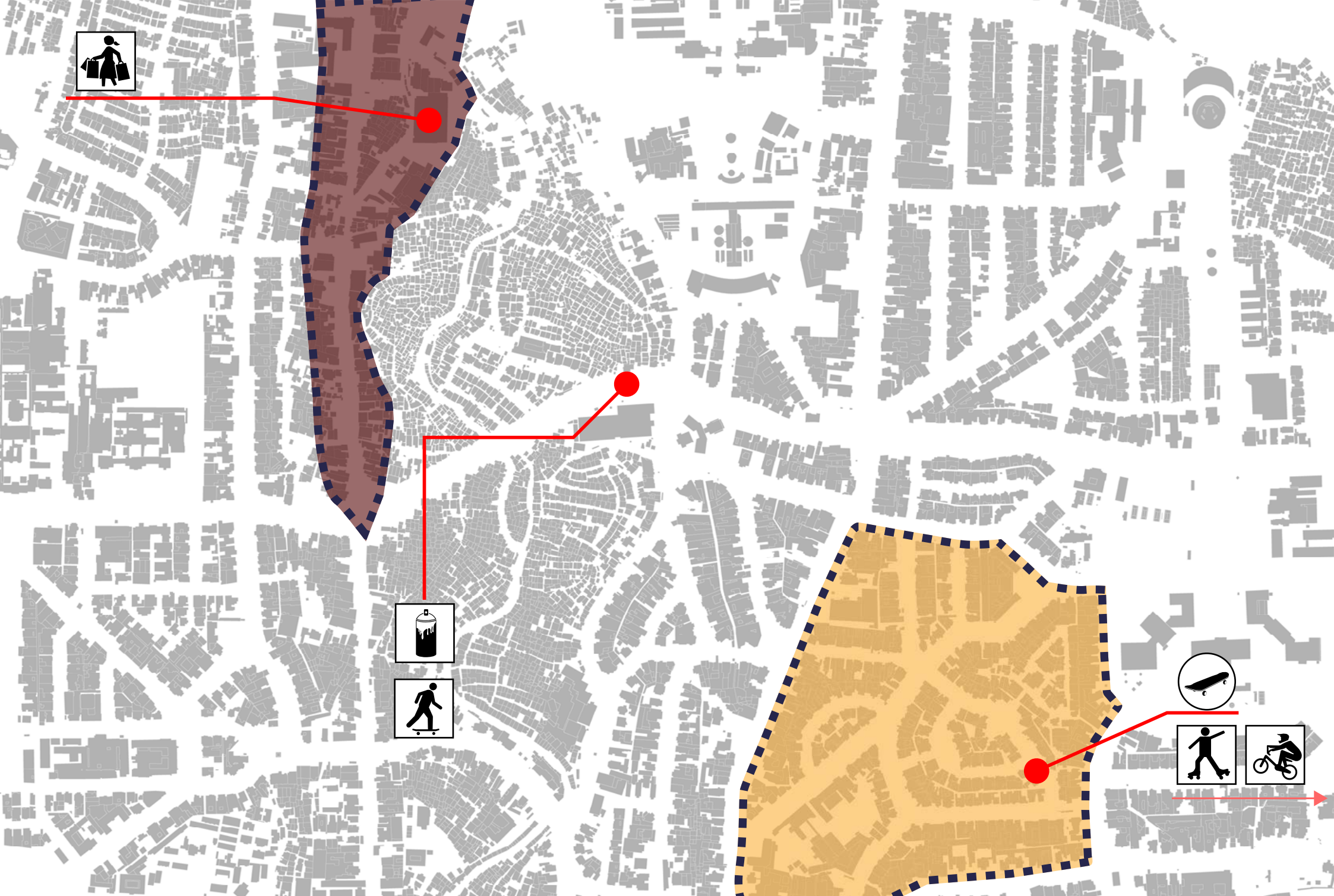




URBAN ANALYSIS / Figure-ground plan



- residential
- luxury/commercial
- mall/commercial
- distro/touristic/commercial
- ITB university
- kampung





PROBLEM STATEMENT / Skateboarders // Main skatespot: Taman Fanda



PROBLEM STATEMENT / Skateboarders // Main skatespot /// Damage



**MAINTENANCE
IN PROGRESS**

- Mudah-mudahan, skater-skater lain dari daerah lain..
- That skaters from other regions..



- Pengerjaannya juga karena dikota dan bukan dilahan pribadi..
- The building process needed to be camouflaged as well,
since the city isn't exactly private property..



- Kita juga harus nyamarkan dengan memakai baju





PROBLEM STATEMENT / Skateboarders // Build Your City Project /// Urban furniture stolen



PROBLEM STATEMENT / Skateboarders // Build Your City Project /// Urban furniture stolen



PROBLEM STATEMENT / Skateboarders // Build Your City Project /// Urban furniture //// Bus stop



PROBLEM STATEMENT / Skateboarders // Demonstration



WE NEED **ADEQUATE** FACILITIES FOR
SKATEBOARDING IN THIS CITY



PROBLEM STATEMENT / Pasupati skatepark



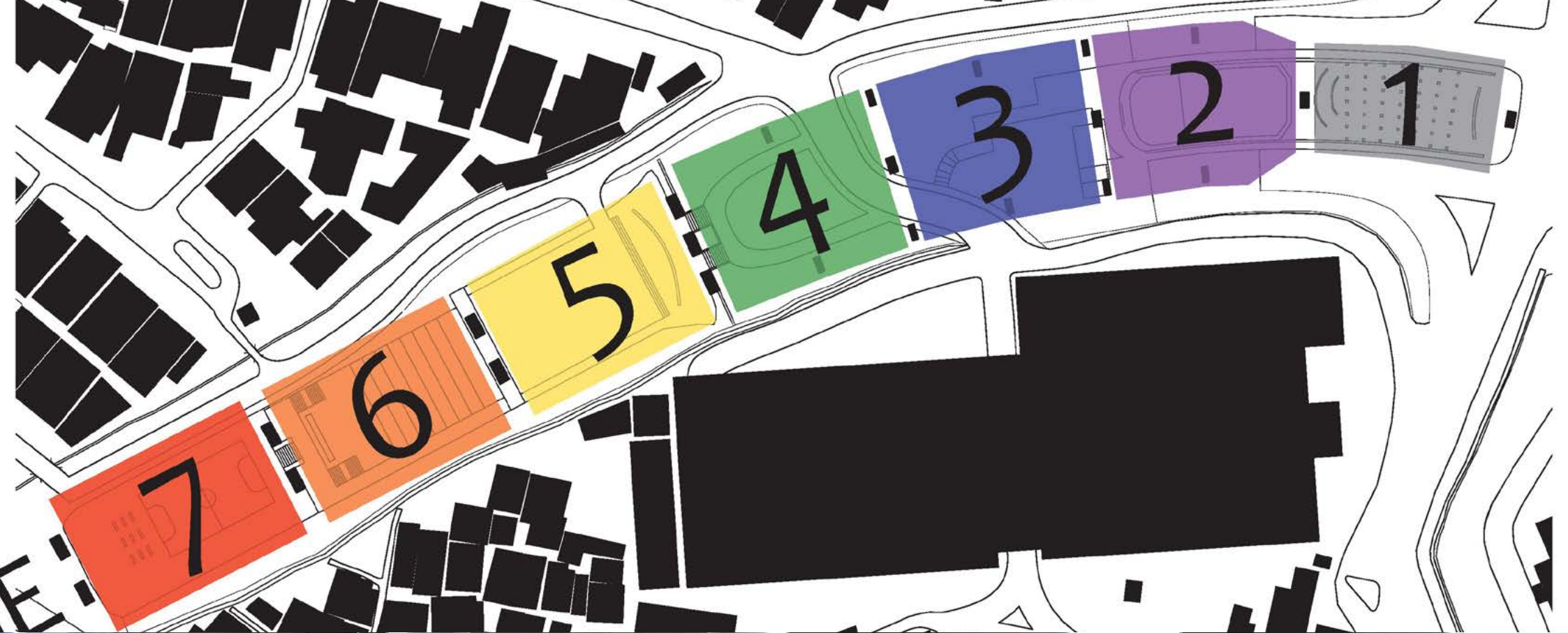
PROBLEM STATEMENT / Pasupati skatepark // Poor quality construction



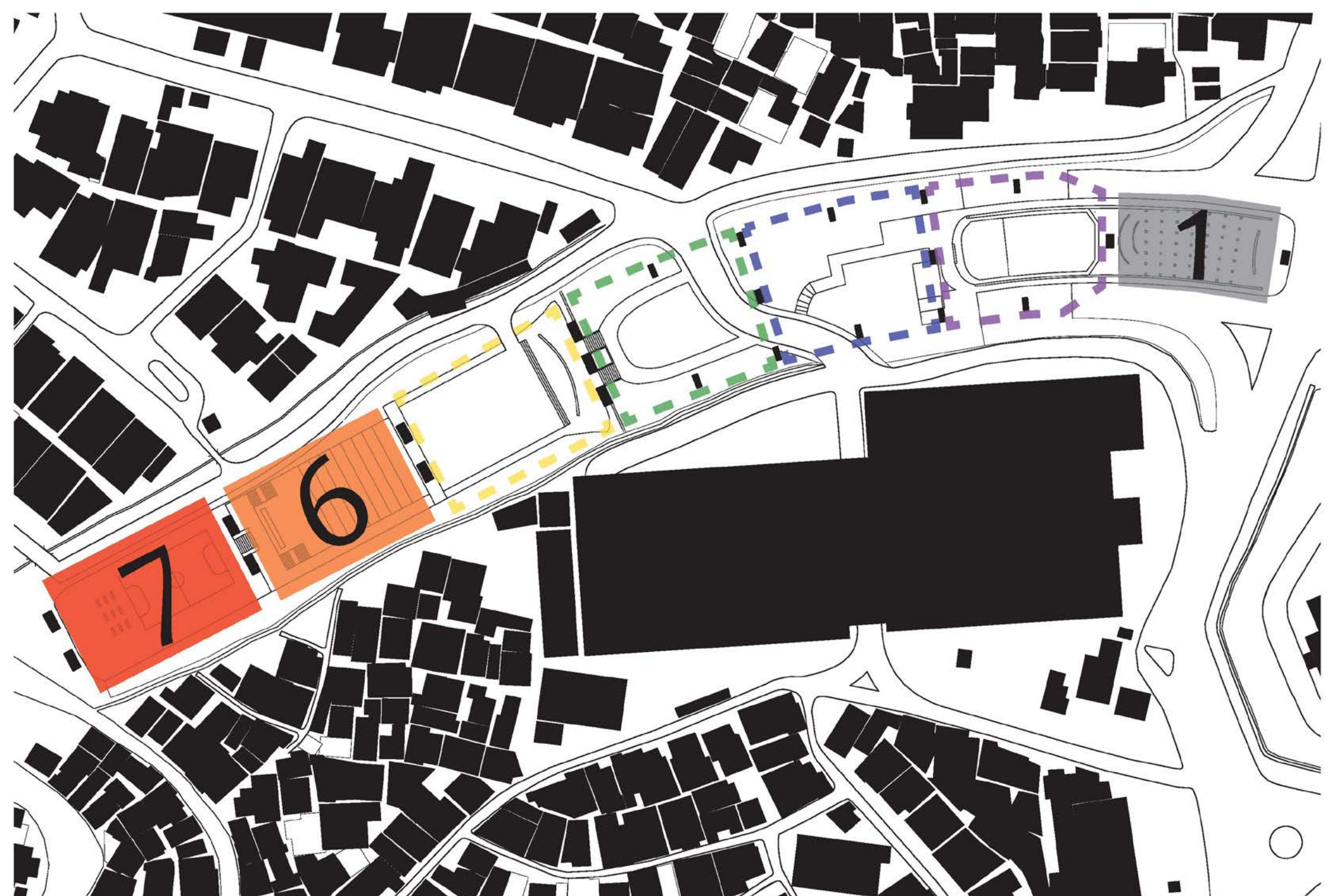
PROBLEM STATEMENT / Pasupati skatepark // Poor quality construction



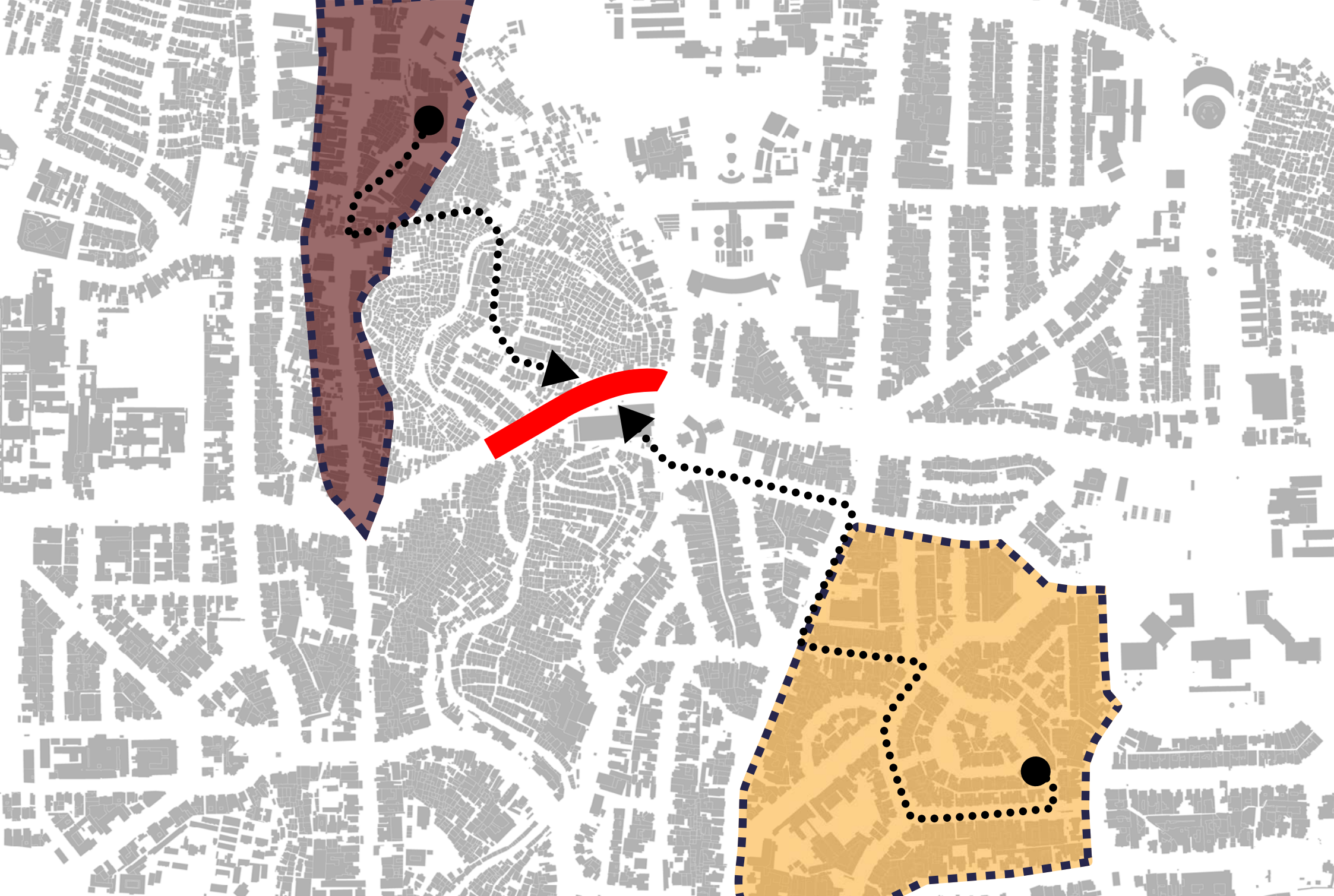
PROBLEM STATEMENT / Pasupati skatepark // DIY Repairing



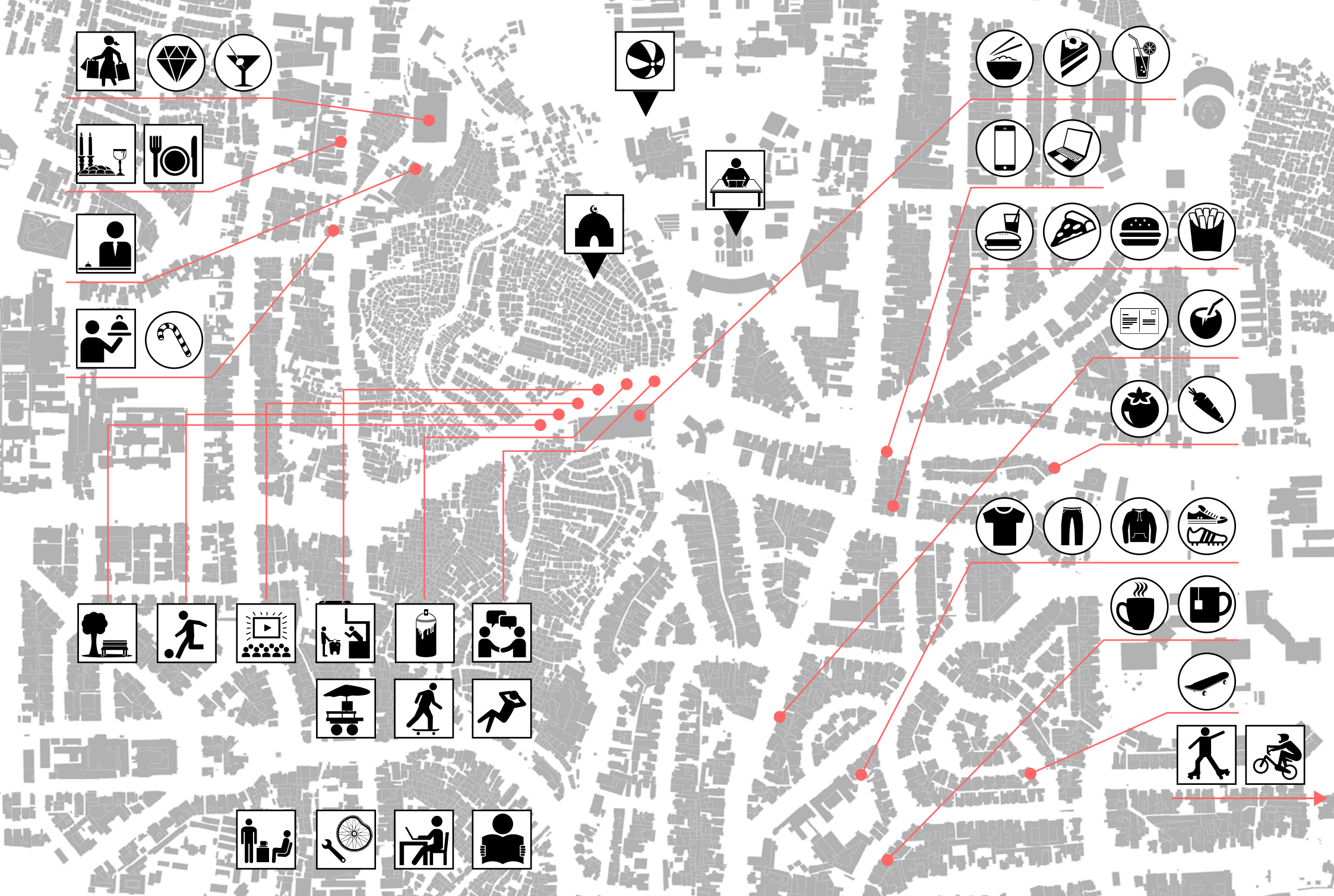
PROBLEM STATEMENT / Pasupati flyover // Activities



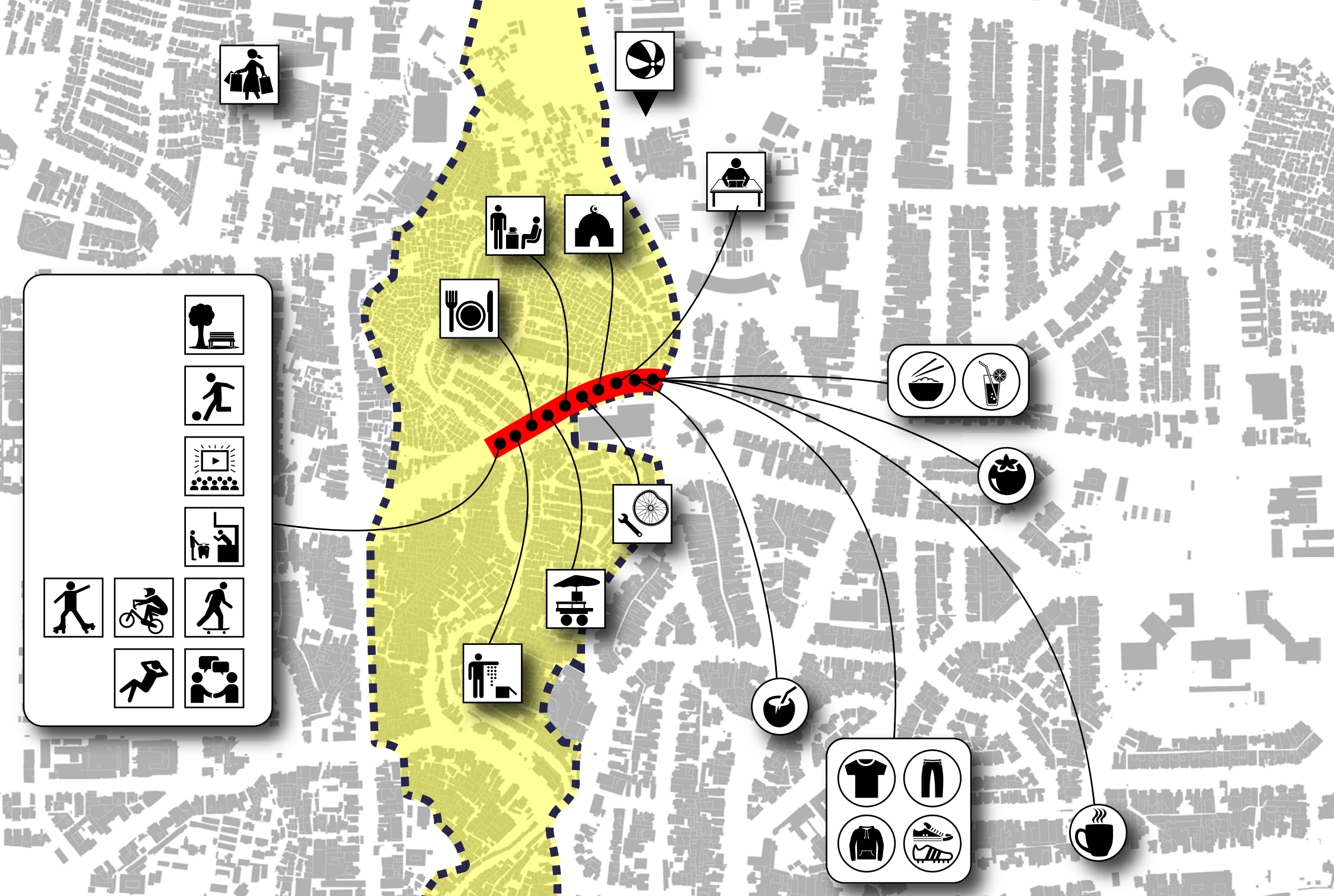
PROBLEM STATEMENT / Pasupati flyover // Reprogrammable plots



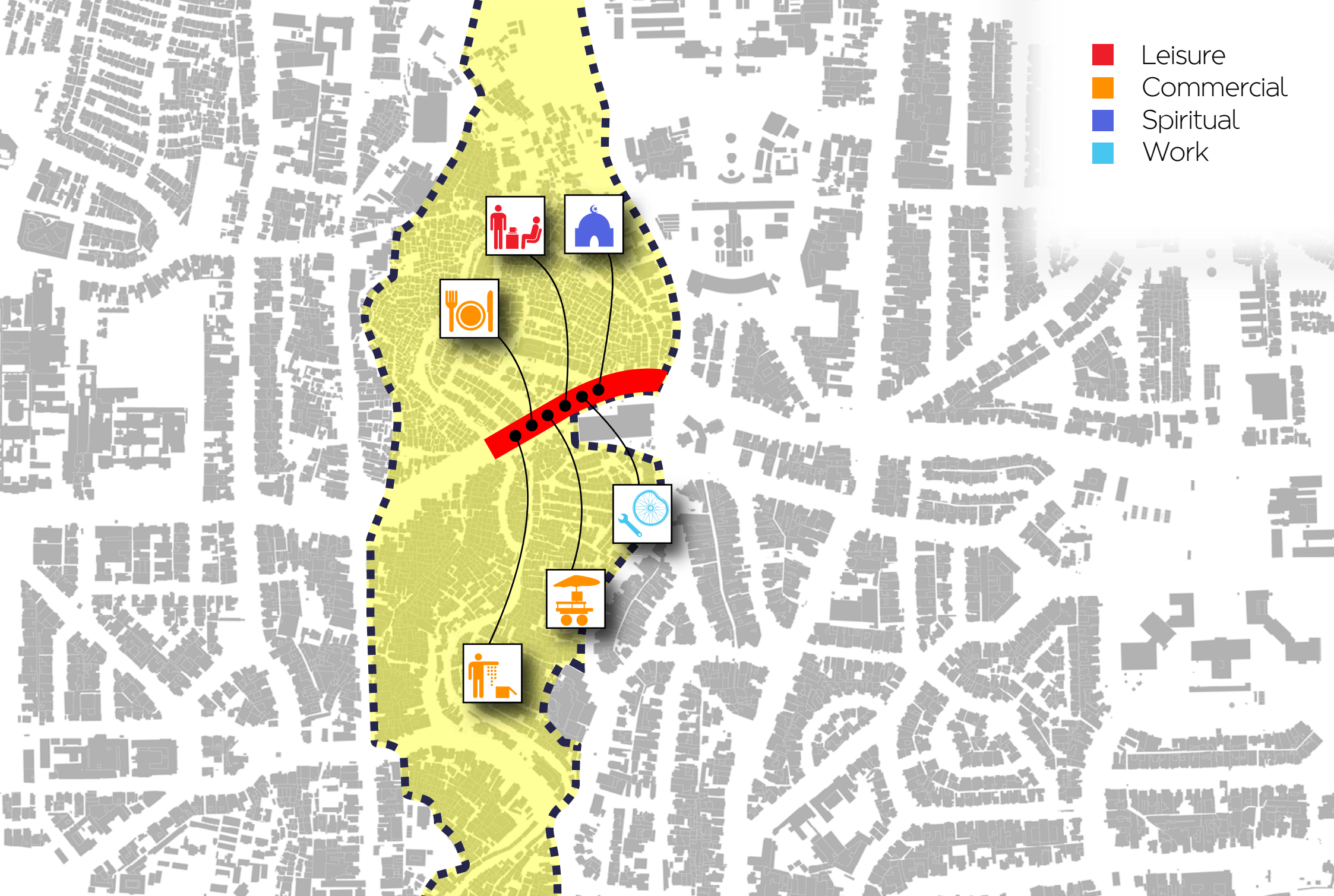
URBAN ANALYSIS / Pasupati flyover // New Hub for Bandung



URBAN ANALYSIS / Activities in 2km radius (centerpoint: Pasupati skatepark)



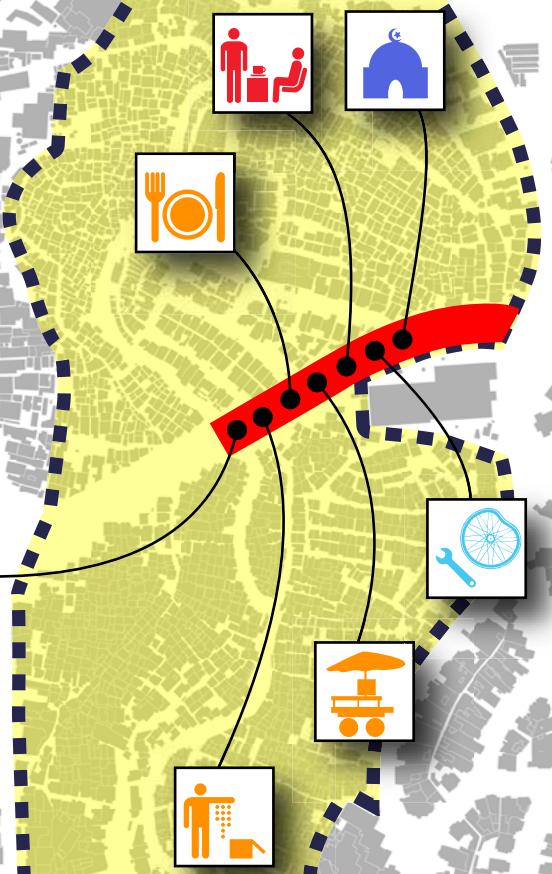
URBAN ANALYSIS / Pasupati flyover // Catalyzer of youth culture-related activities



- Leisure
- Commercial
- Spiritual
- Work

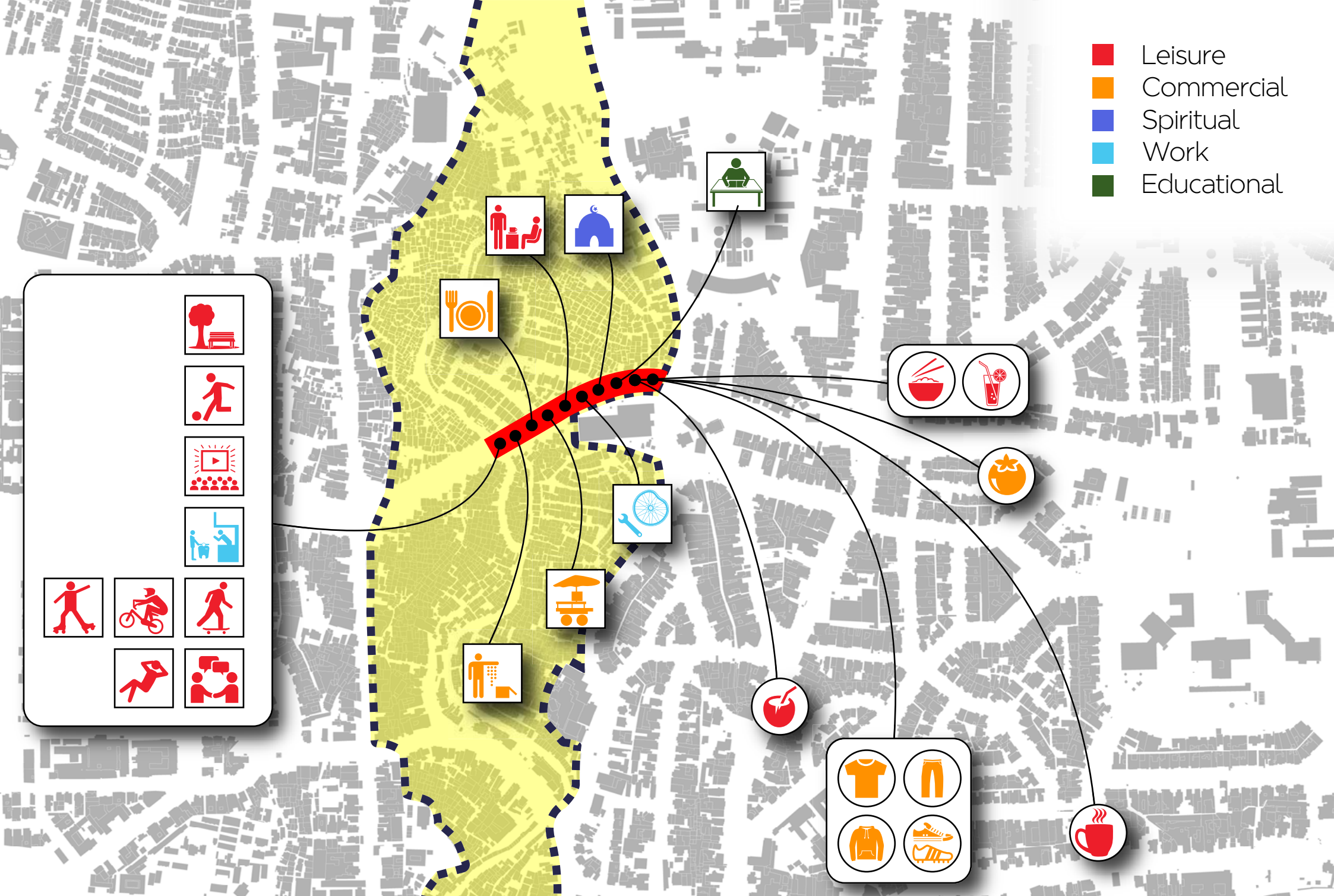
URBAN ANALYSIS / Pasupati flyover // Catalyzer of activities happening in the kampung

- Leisure
- Commercial
- Spiritual
- Work



URBAN ANALYSIS / Pasupati flyover // Safeguarding added activities taking place underneath

- Leisure
- Commercial
- Spiritual
- Work
- Educational



URBAN ANALYSIS / Pasupati flyover // Facilitator of external activities

How to facilitate the needs of skateboarders through the **design of a hybrid-building** under the Pasupati flyover that works both as a skatepark & urban facilitator while **adding architectural value** and **giving identity to skateboarders** ?

How can the strategic implementation of **local Indonesian wood resources** facilitate the construction of a flexible and **hybrid building/skatepark** in **Bandung**?



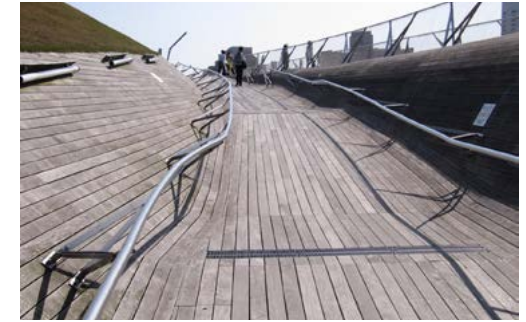
• INTERIOR DESIGN PROJECT



• WOOD AS LIGHTWEIGHT



• DOUBLE CURVED SURFACE



• WOOD FACILITATES SKATEBOARDING FLOW

• PROFILE-BUILDING CONSTRUCTION TECHNIQUE

• UNIQUE CASE OF MERGING

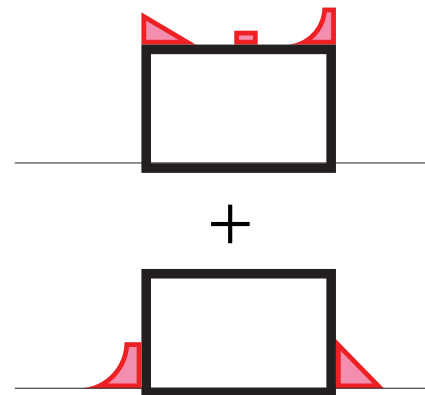
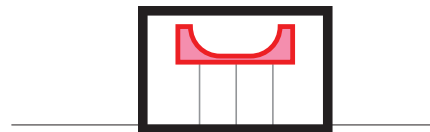
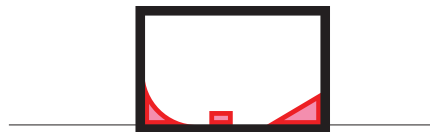
• TRUSS CONSTRUCTION TECHNIQUE

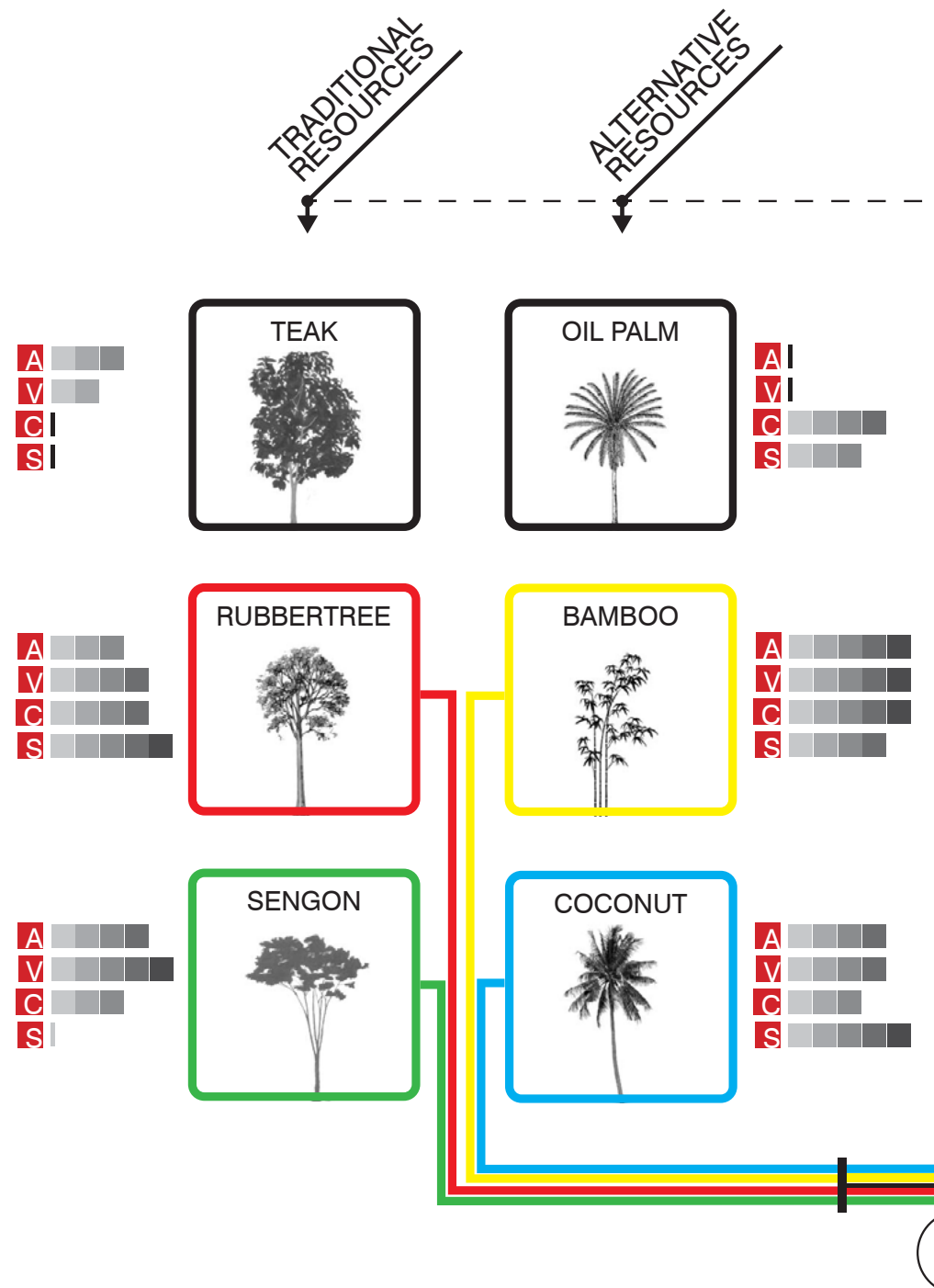
• FLATGROUND AND WALLS

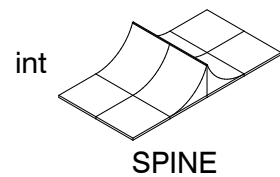
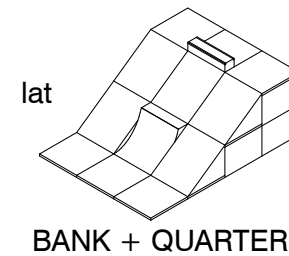
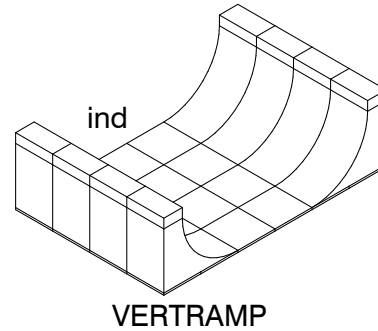
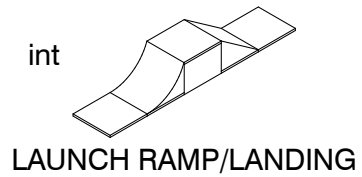
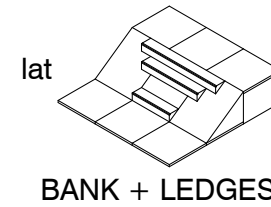
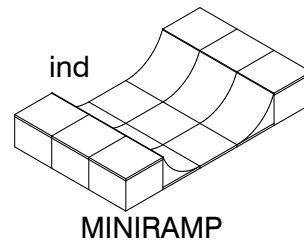
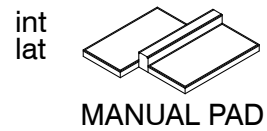
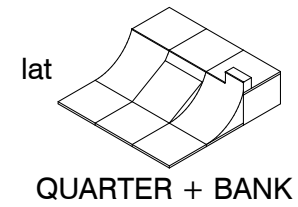
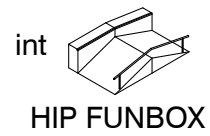
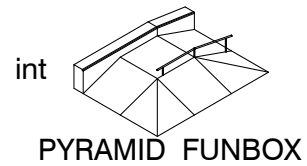
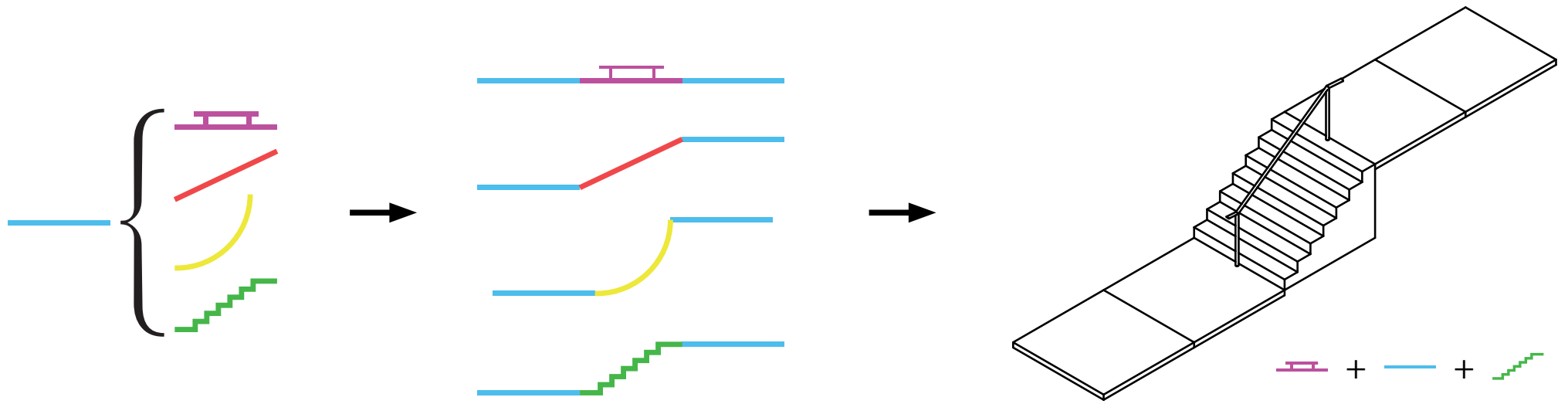
• ADDED ARCHITECTURAL VALUE

• FRAME-BUILDING CONSTRUCTION

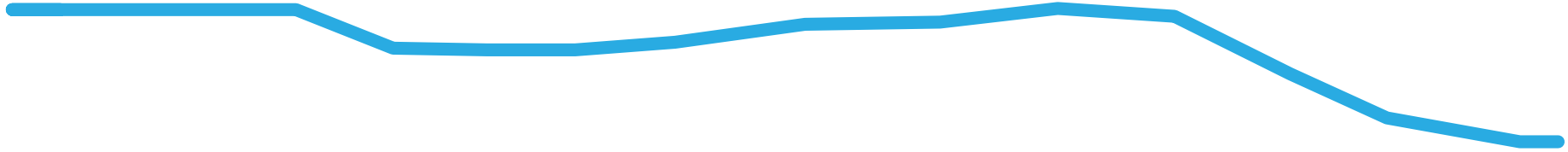
• LOCAL HARDWOOD EXPLOITED







FLYOVER



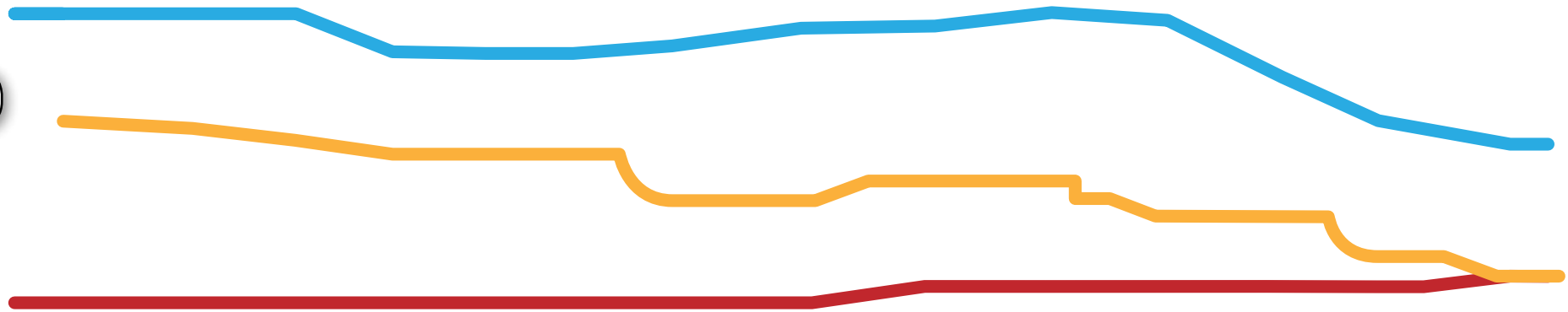
GROUND

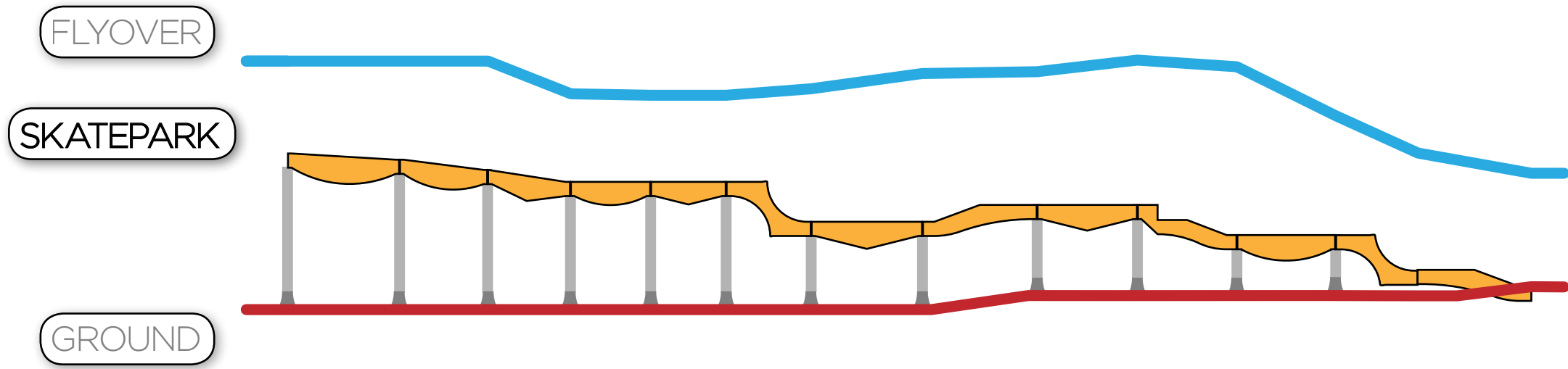


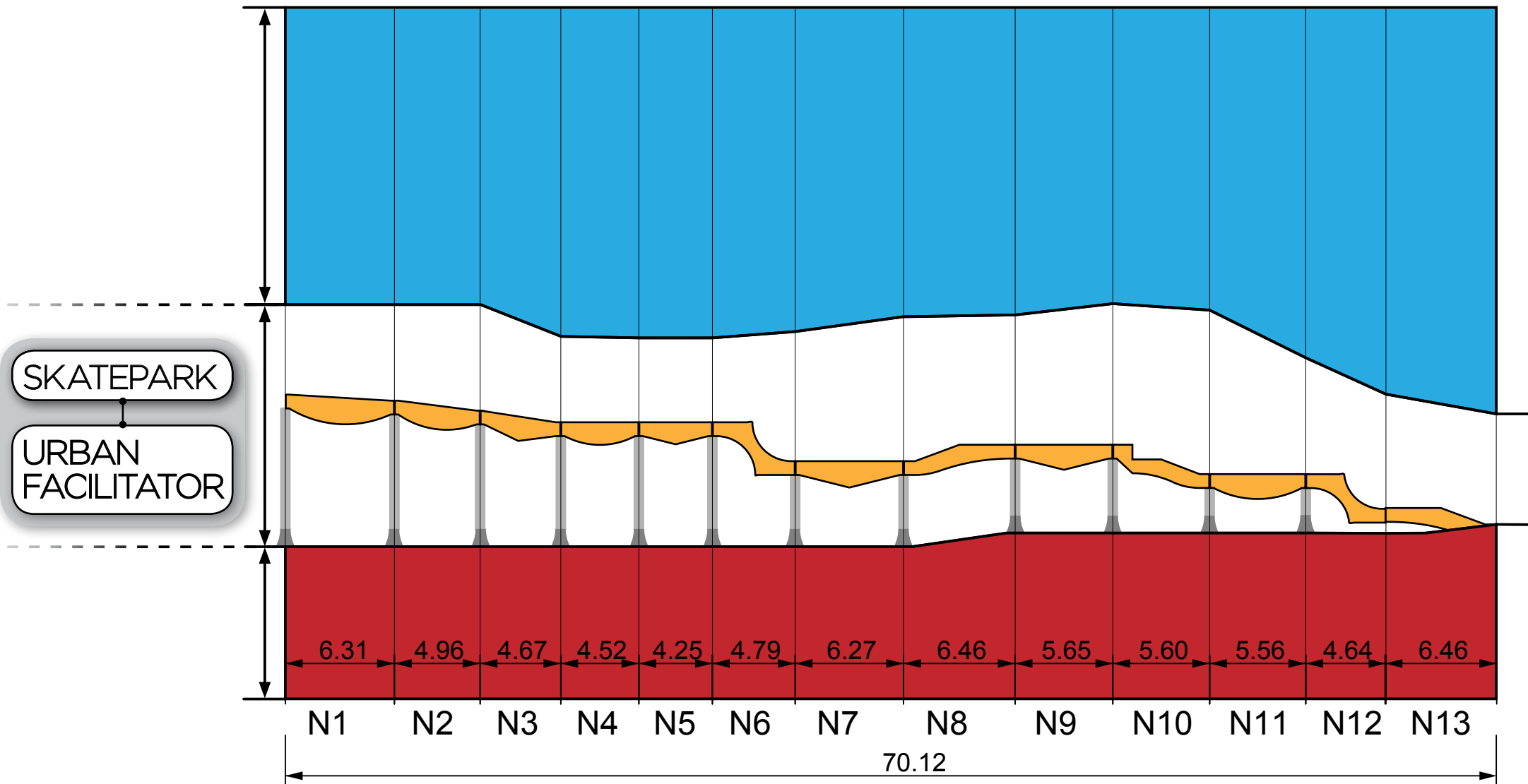
FLYOVER

SKATEPARK

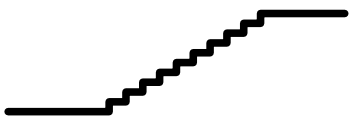
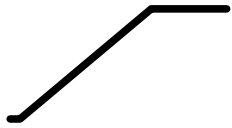
GROUND



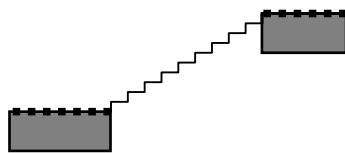
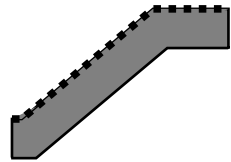
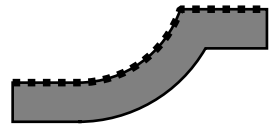




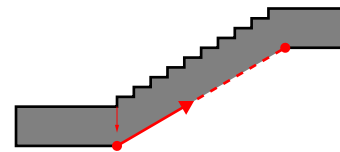
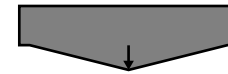
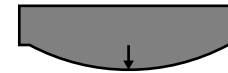
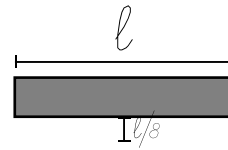
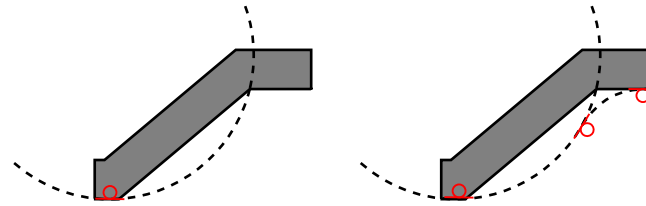
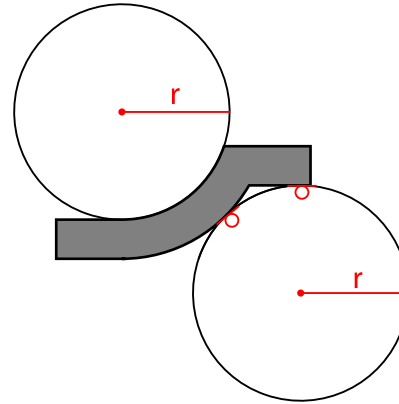
OUTLINE



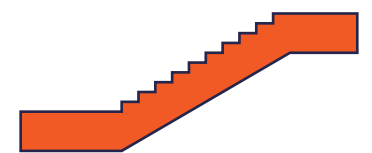
OFFSET

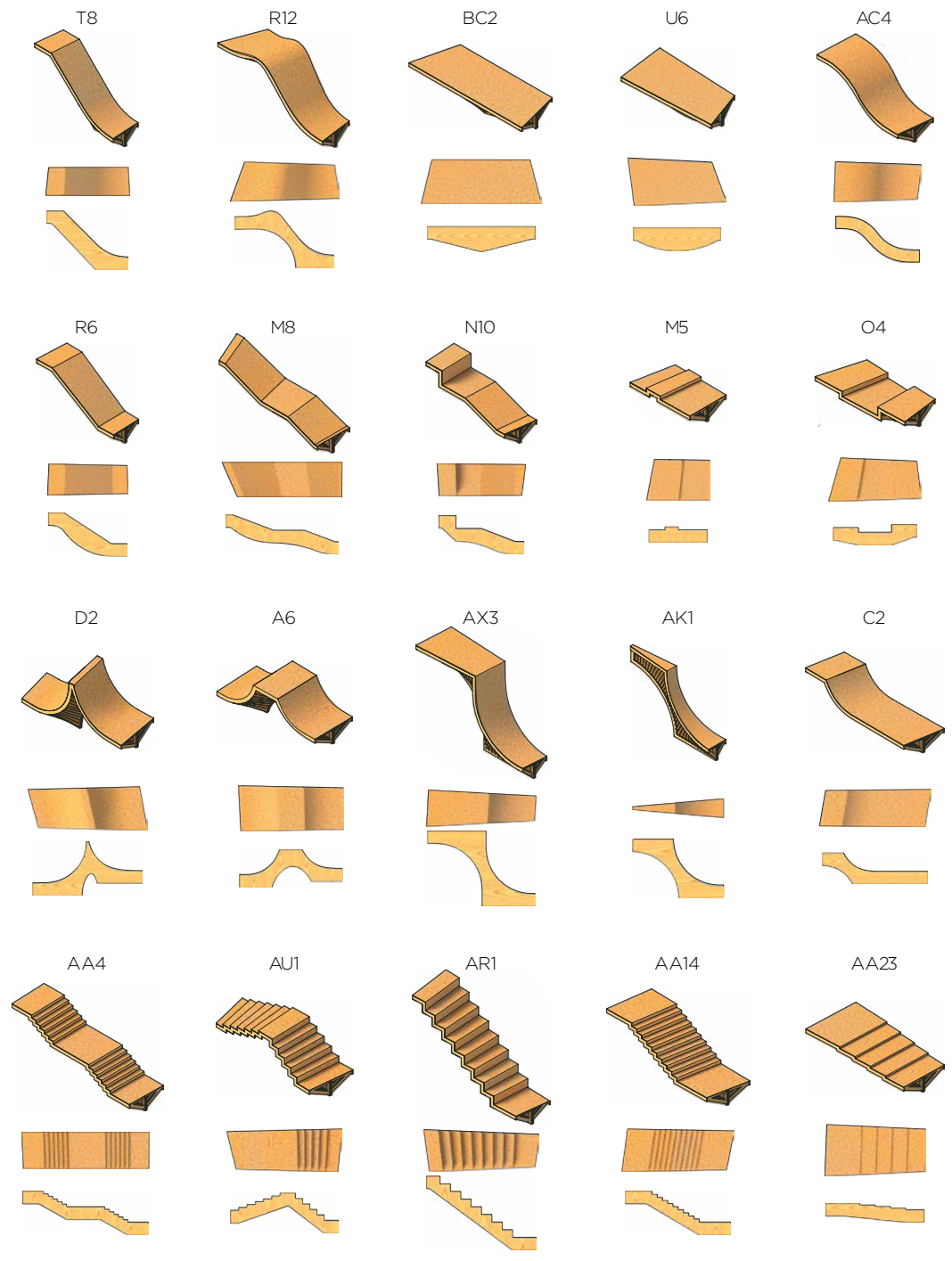


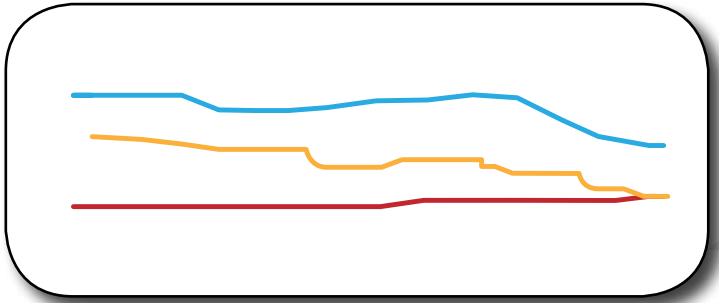
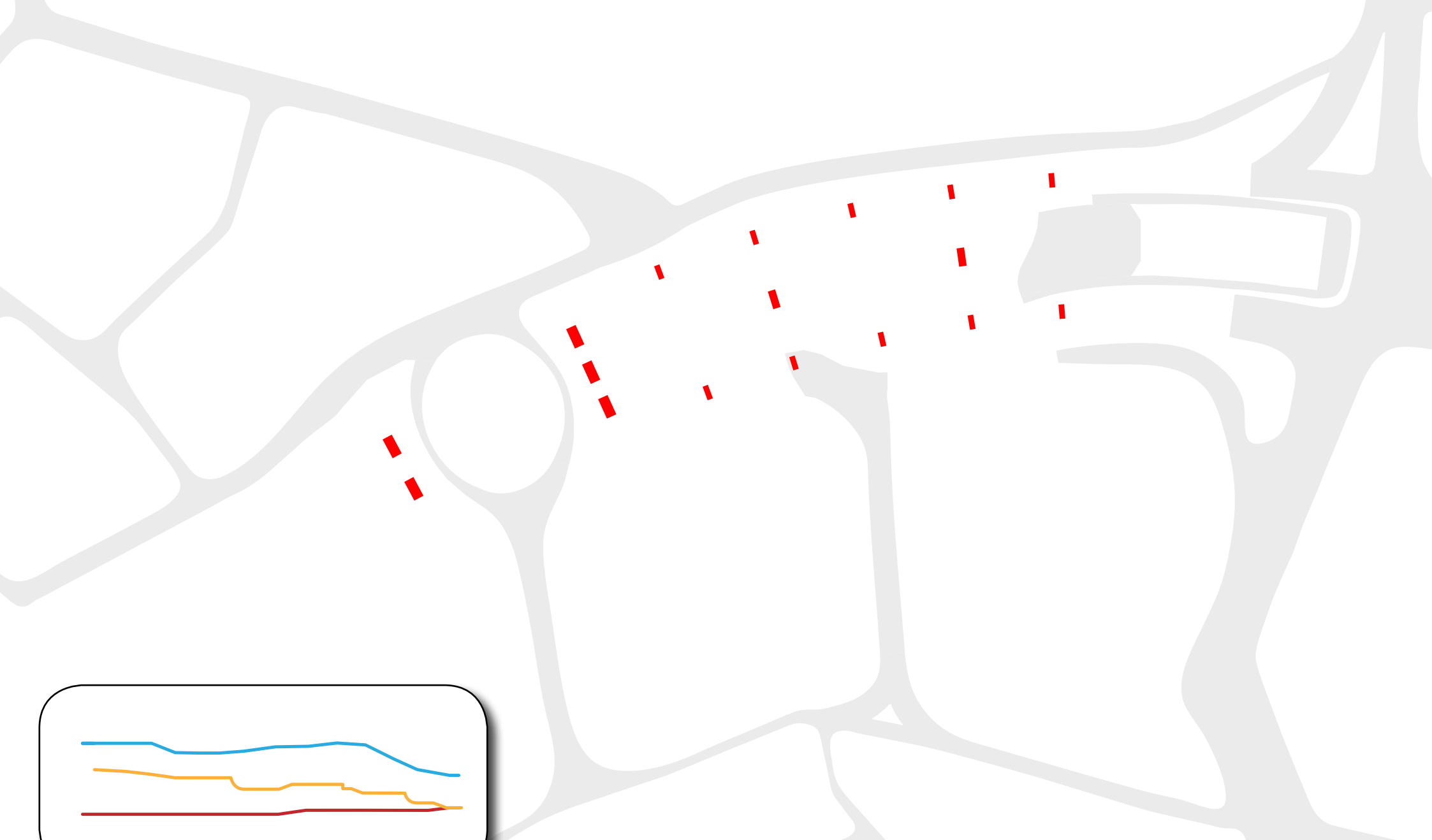
ALGORITHM

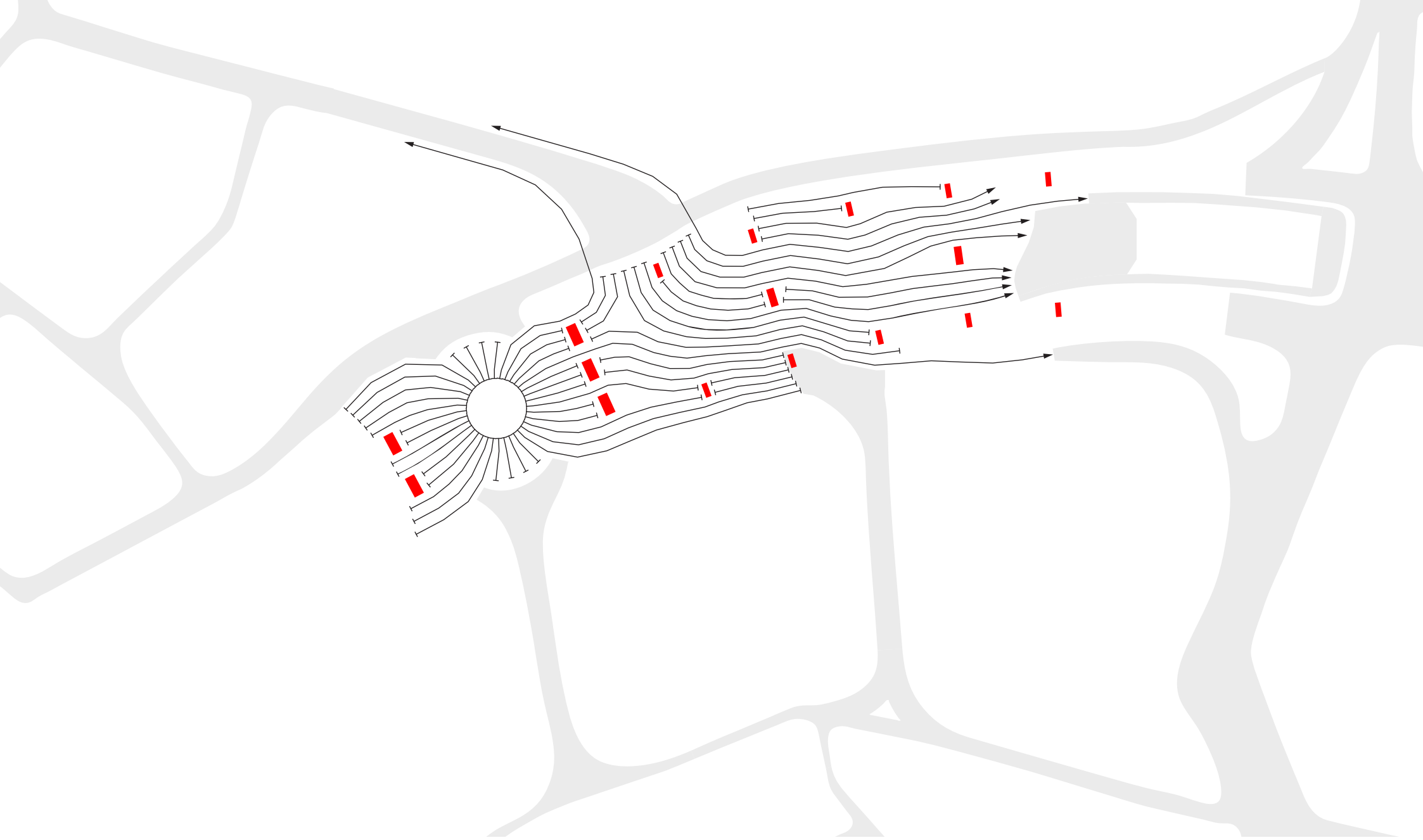


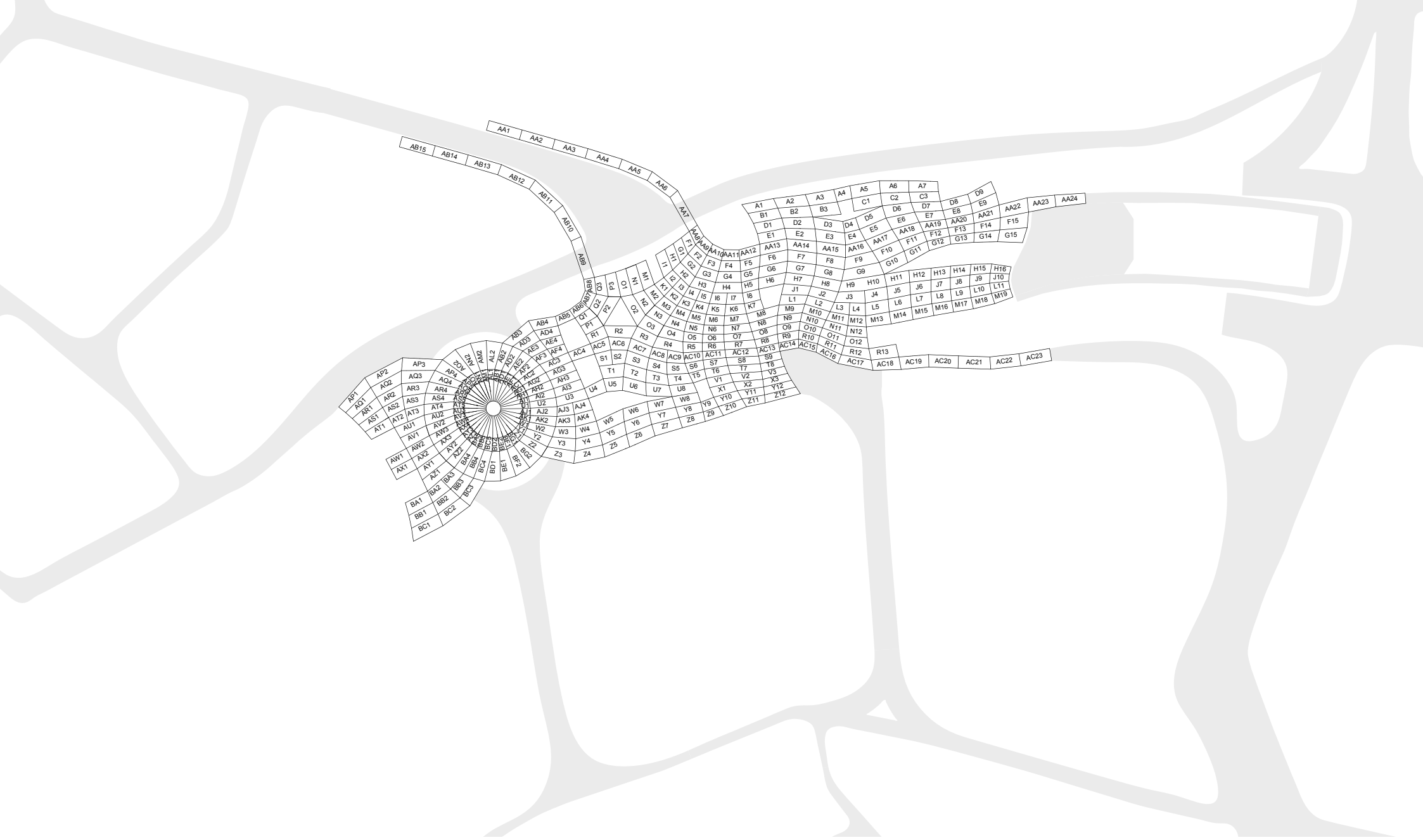
RESULT

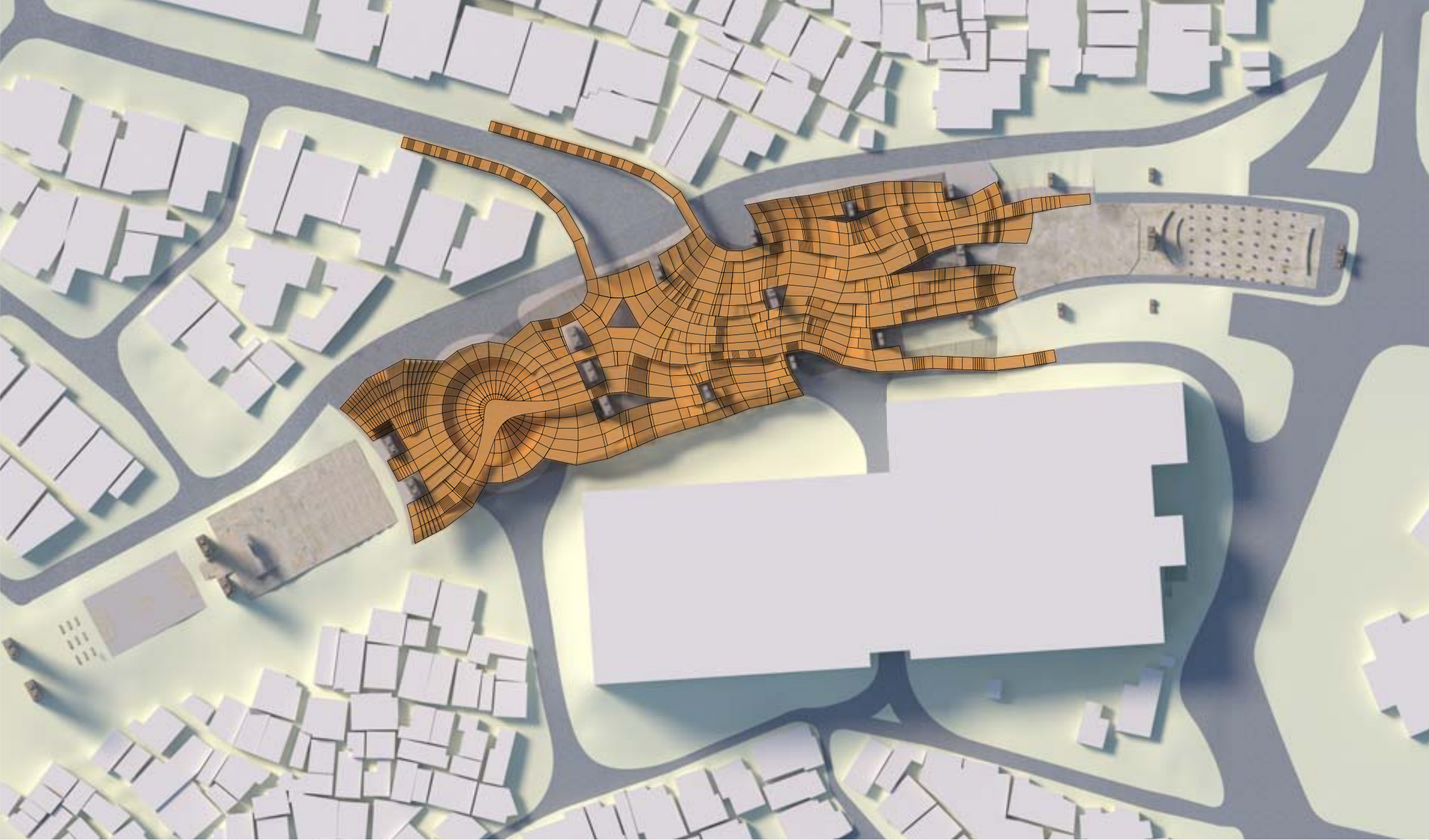




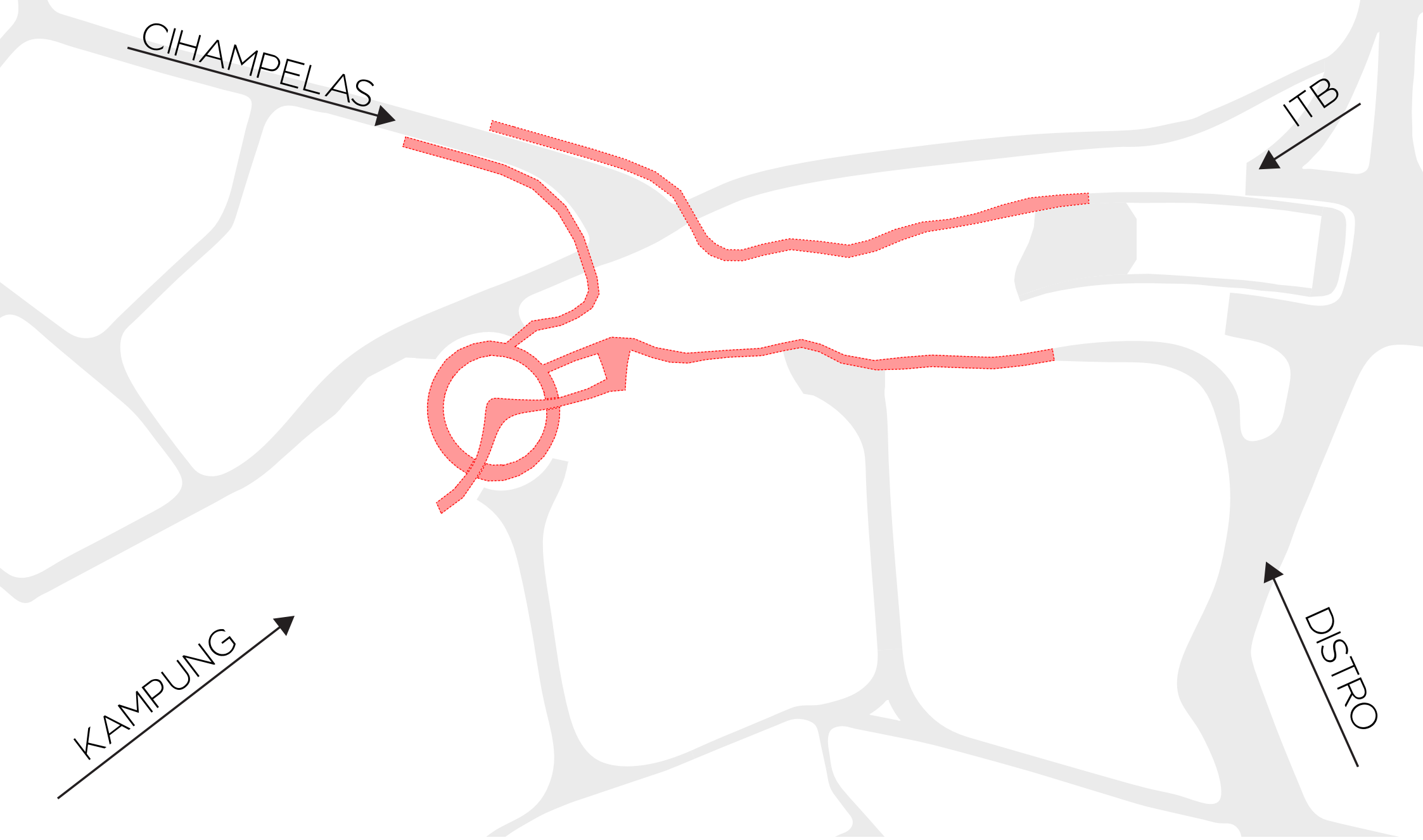


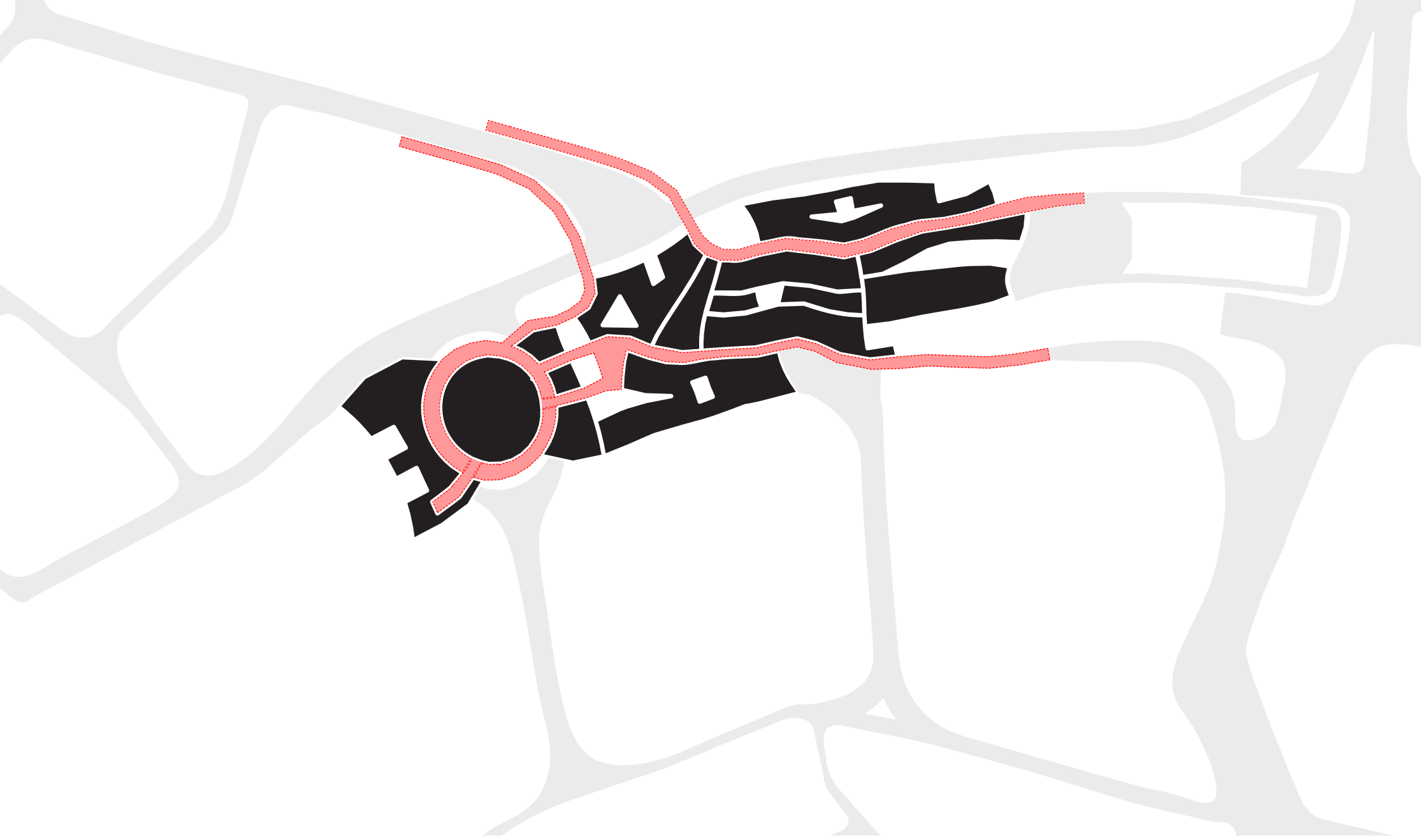


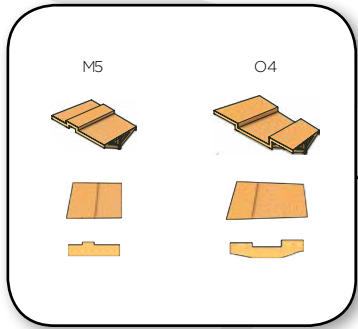




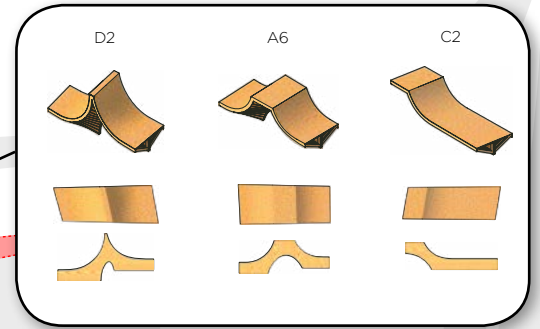




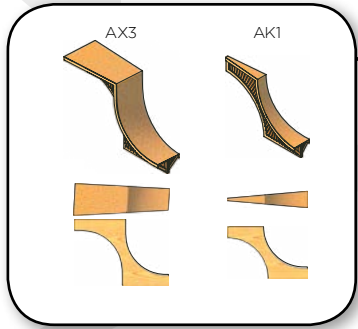




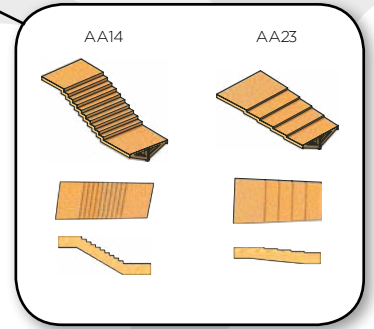
MANUALS & LEDGES



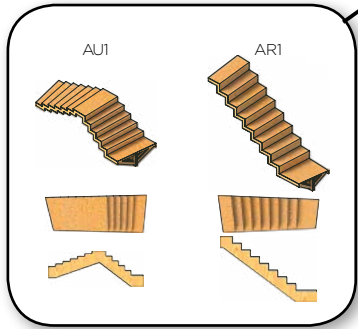
MINI-VERT RAMPS



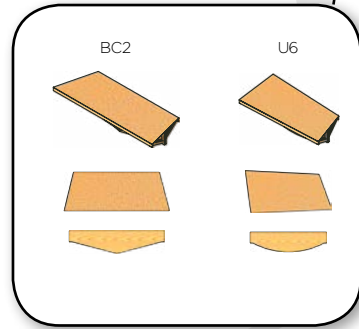
BOWL PARK



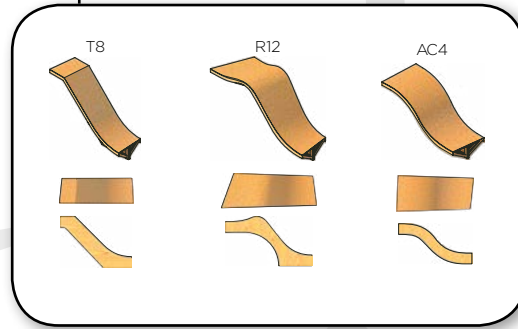
IMPACT AREAS



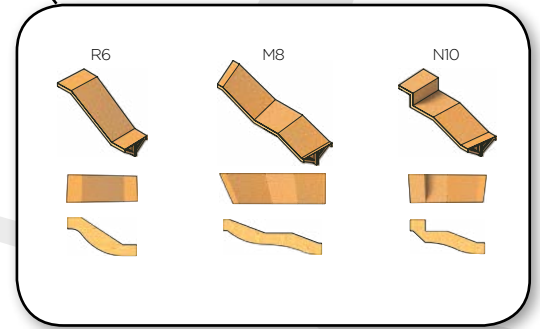
AUDIENCE SEATING



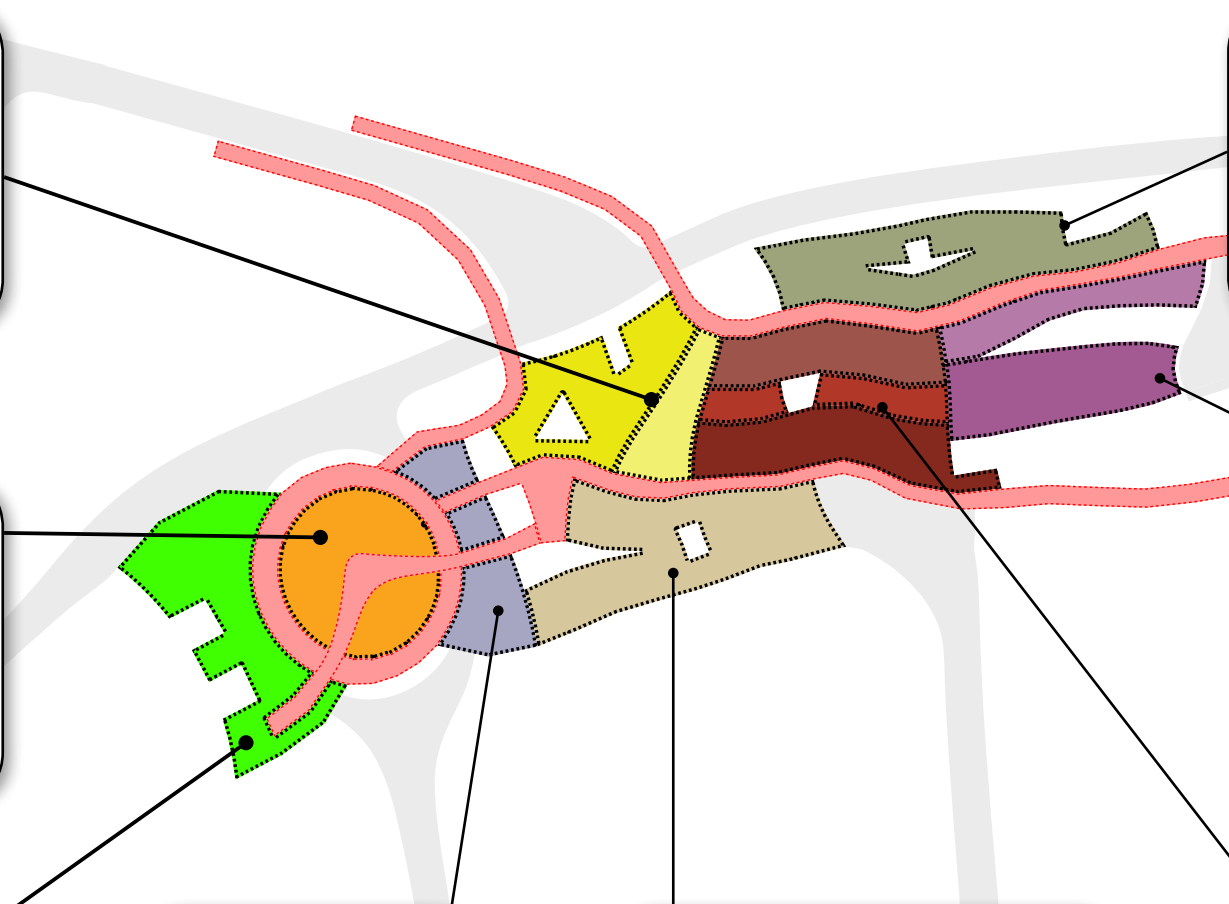
FLATGROUND



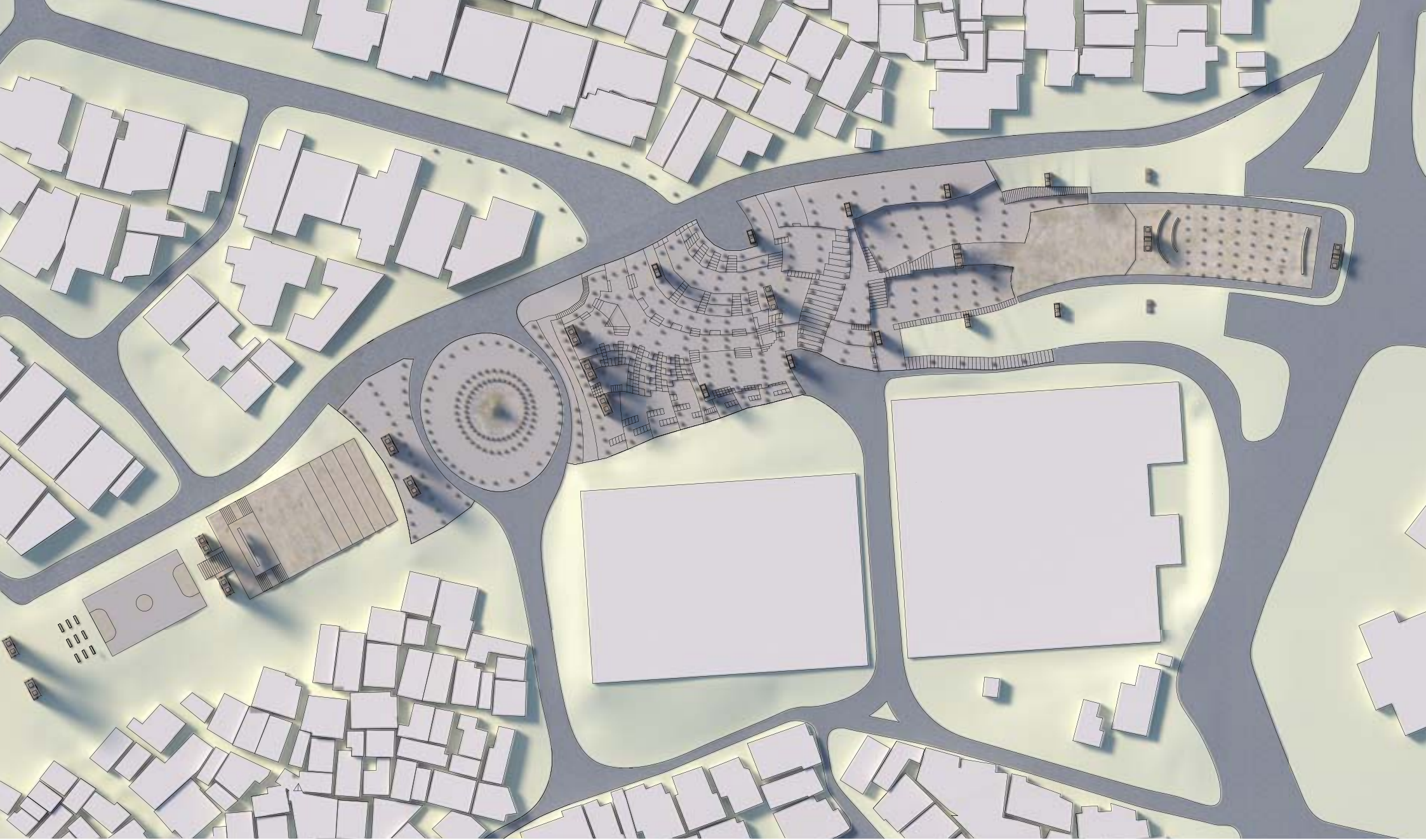
BMX DIRT JUMP

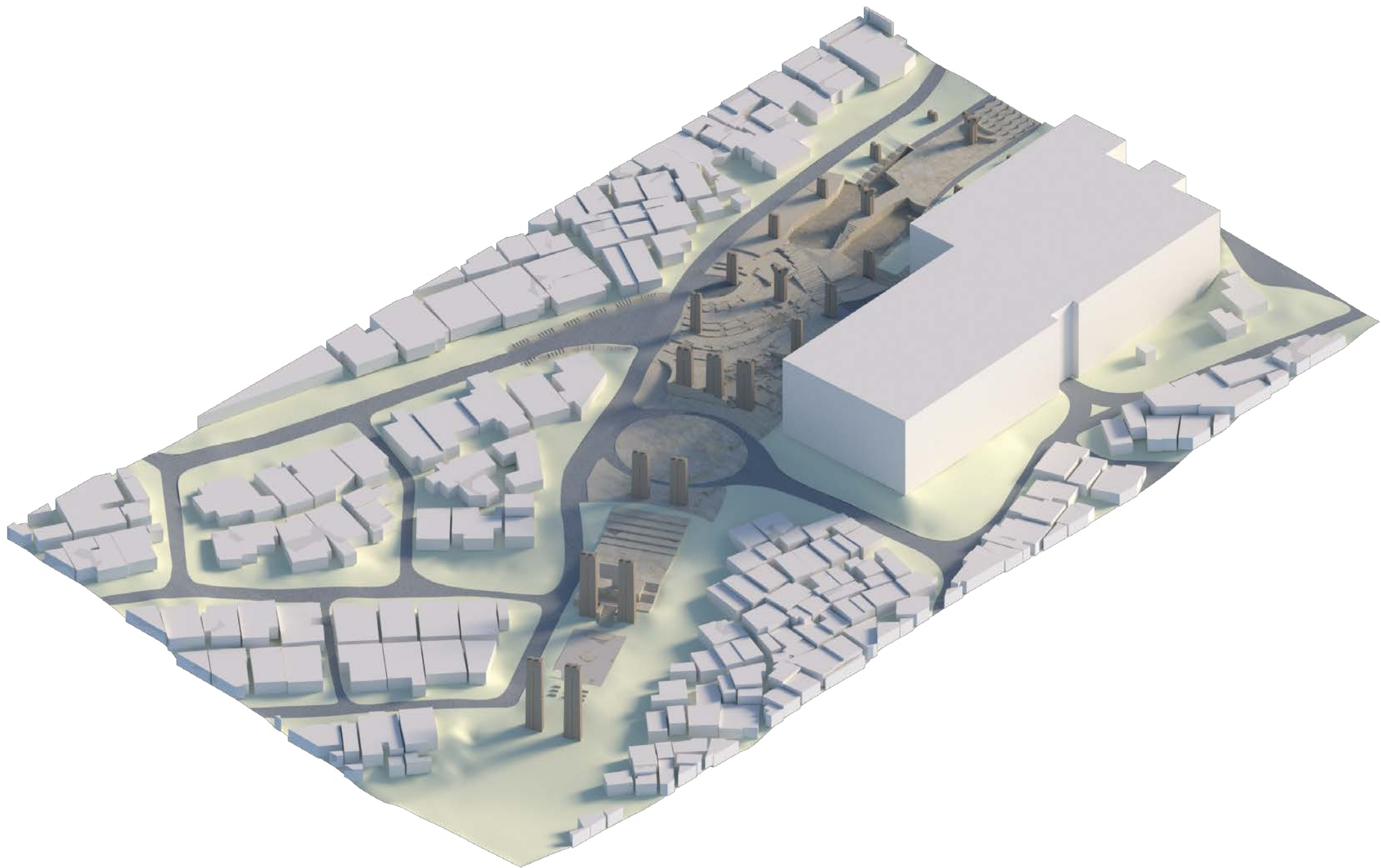


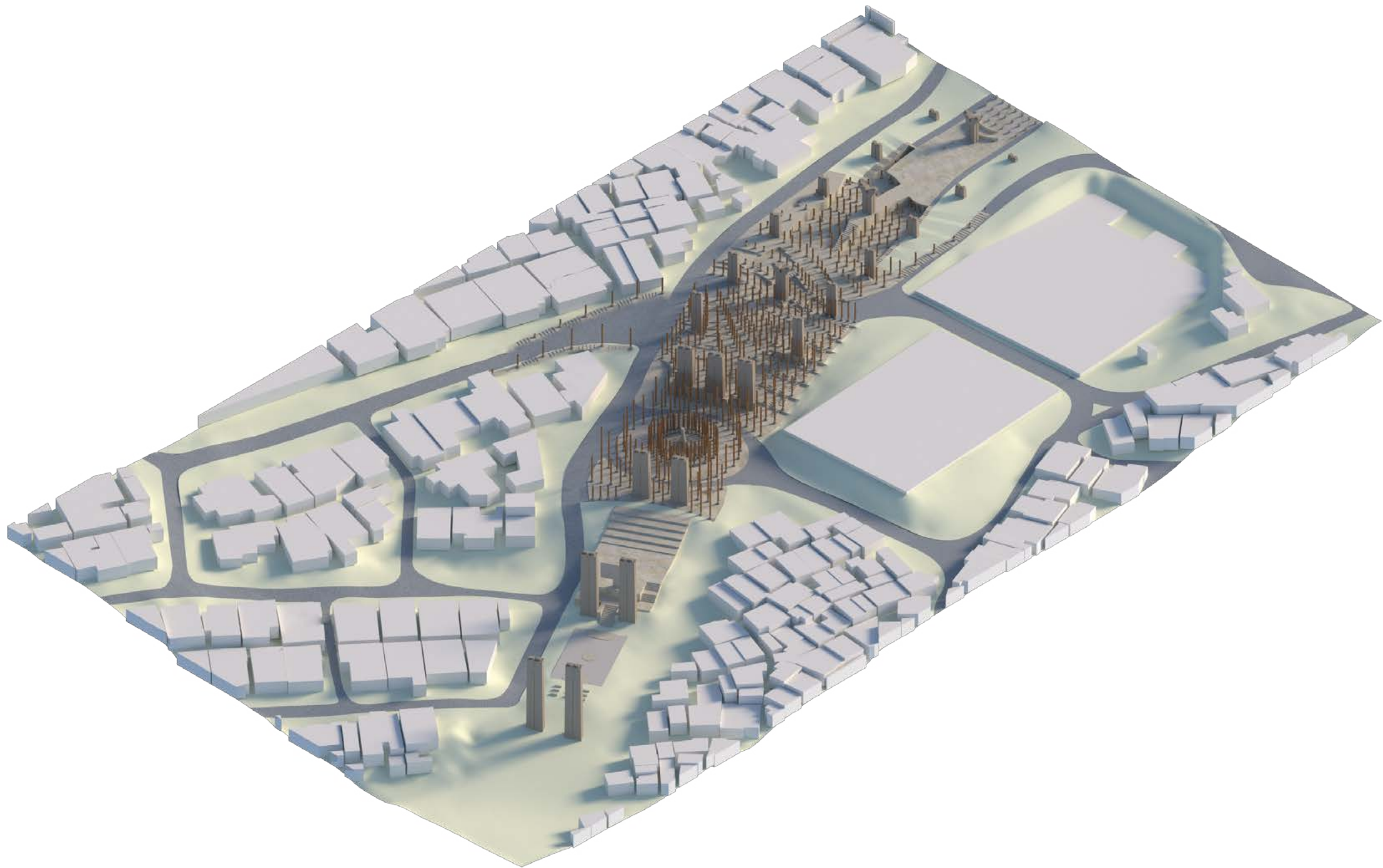
SKATEPLAZA

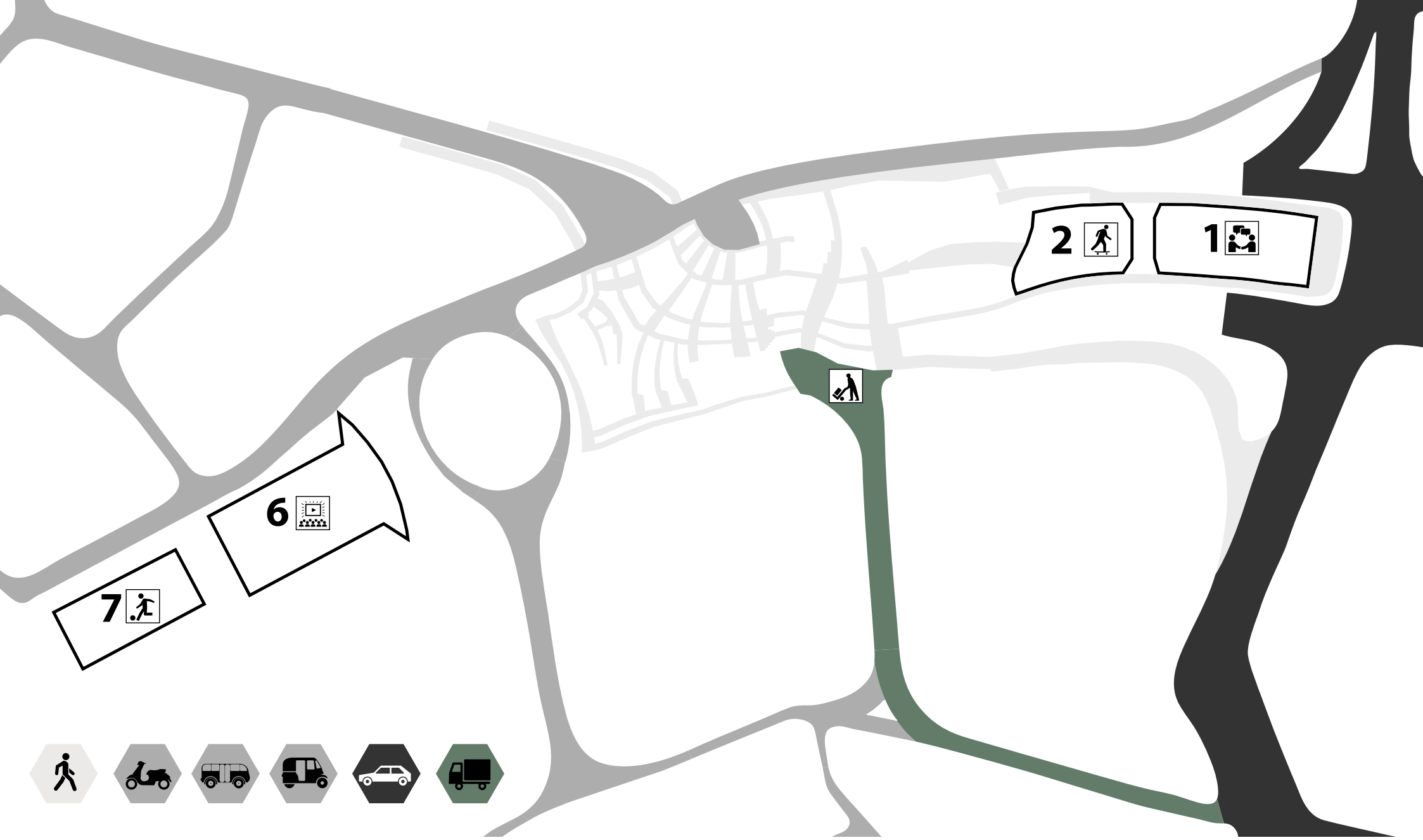








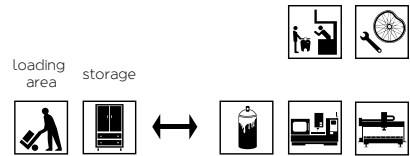




GOODS ○ ACTIVITIES □

DESCRIPTION

CATEGORY



PARKING & BIKE REPAIR
 WOOD FACTORY producing / assembly / repairing / upgrading

WORKING



ARTISTIC ROUTE: promoting youth-culture design...

EDUCATIONAL

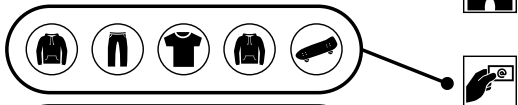


MUSEUM OF SKATE: skateart, decks, sculptures...



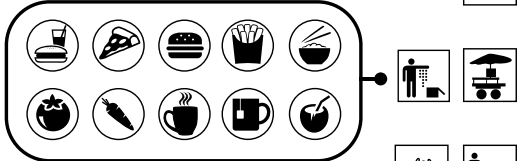
MOSQUE

RELIGIOUS



SELF PROMOTION OF LOCAL BRANDS

COMMERCIAL



KAMPUNG SELLERS MAKING BUSINESS



ELDERS' PLAYGROUND



YOUNGSTERS' PLAYGROUND



FAMILIES' PLAYGROUND

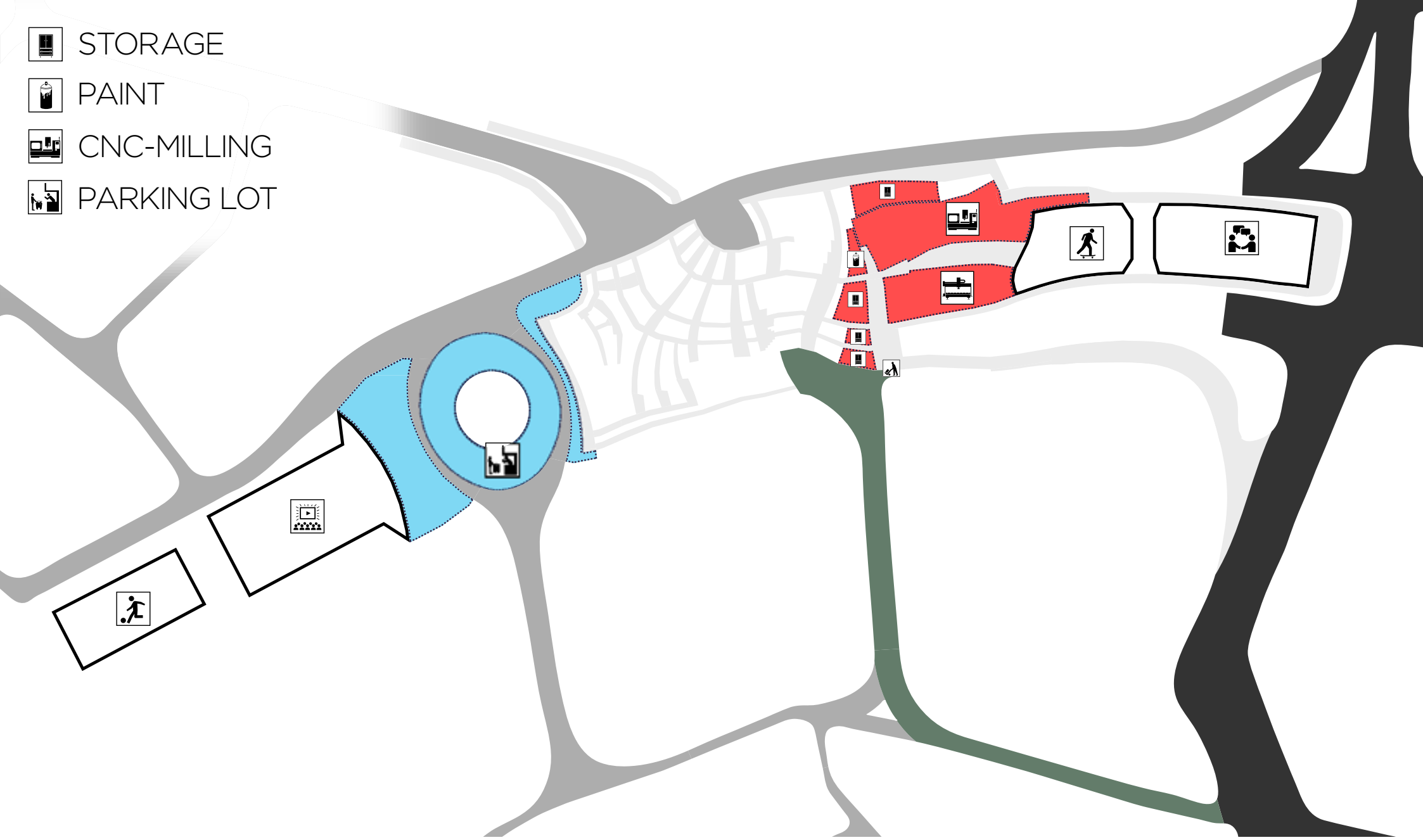


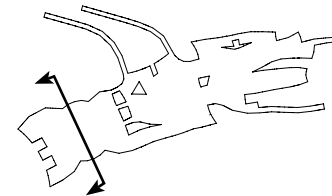
COMMUNAL






EVERYBODY'S PLAYGROUND

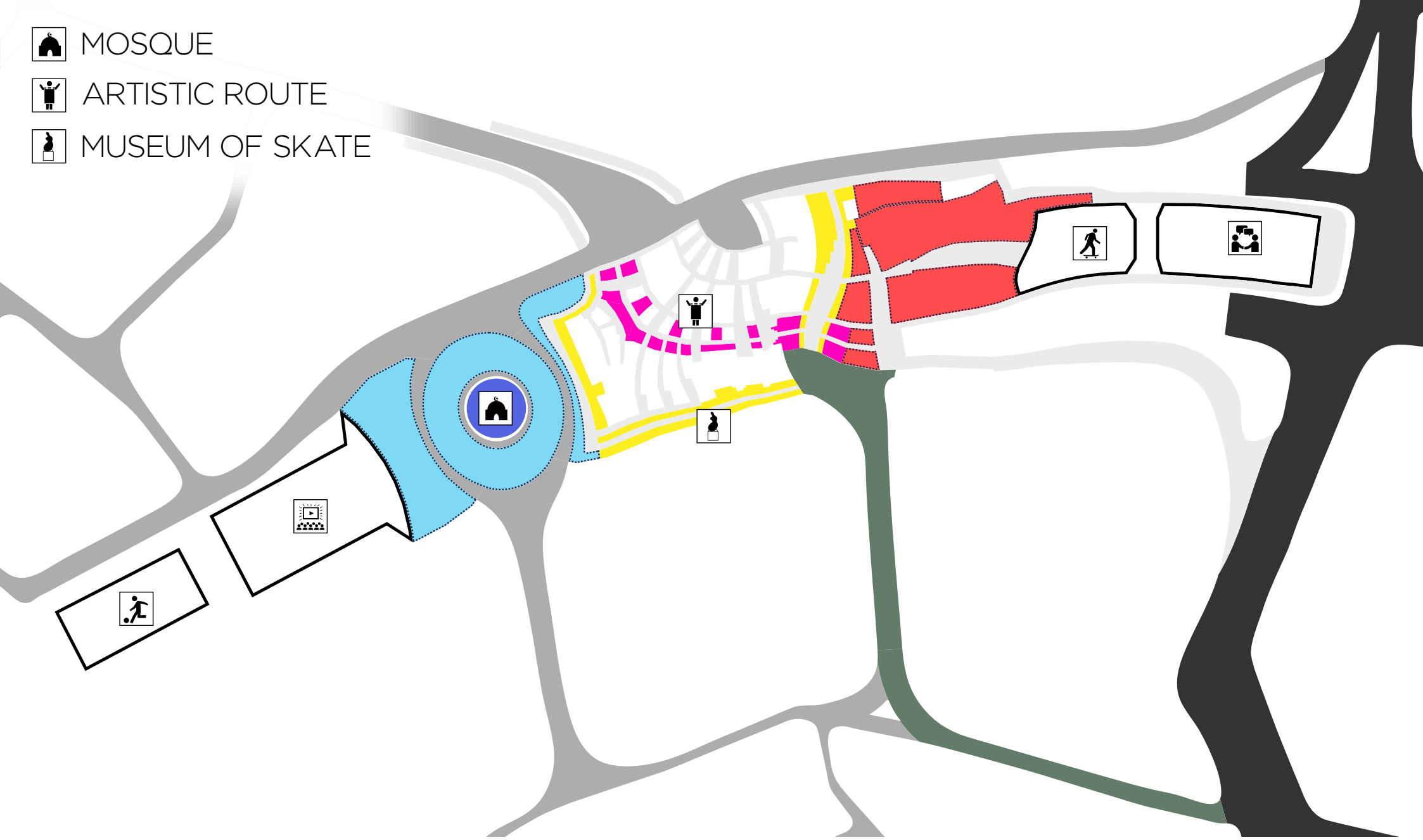
-  STORAGE
-  PAINT
-  CNC-MILLING
-  PARKING LOT





DESIGN / Section 1 : 50 / Mosque & Bowl park

-  MOSQUE
-  ARTISTIC ROUTE
-  MUSEUM OF SKATE










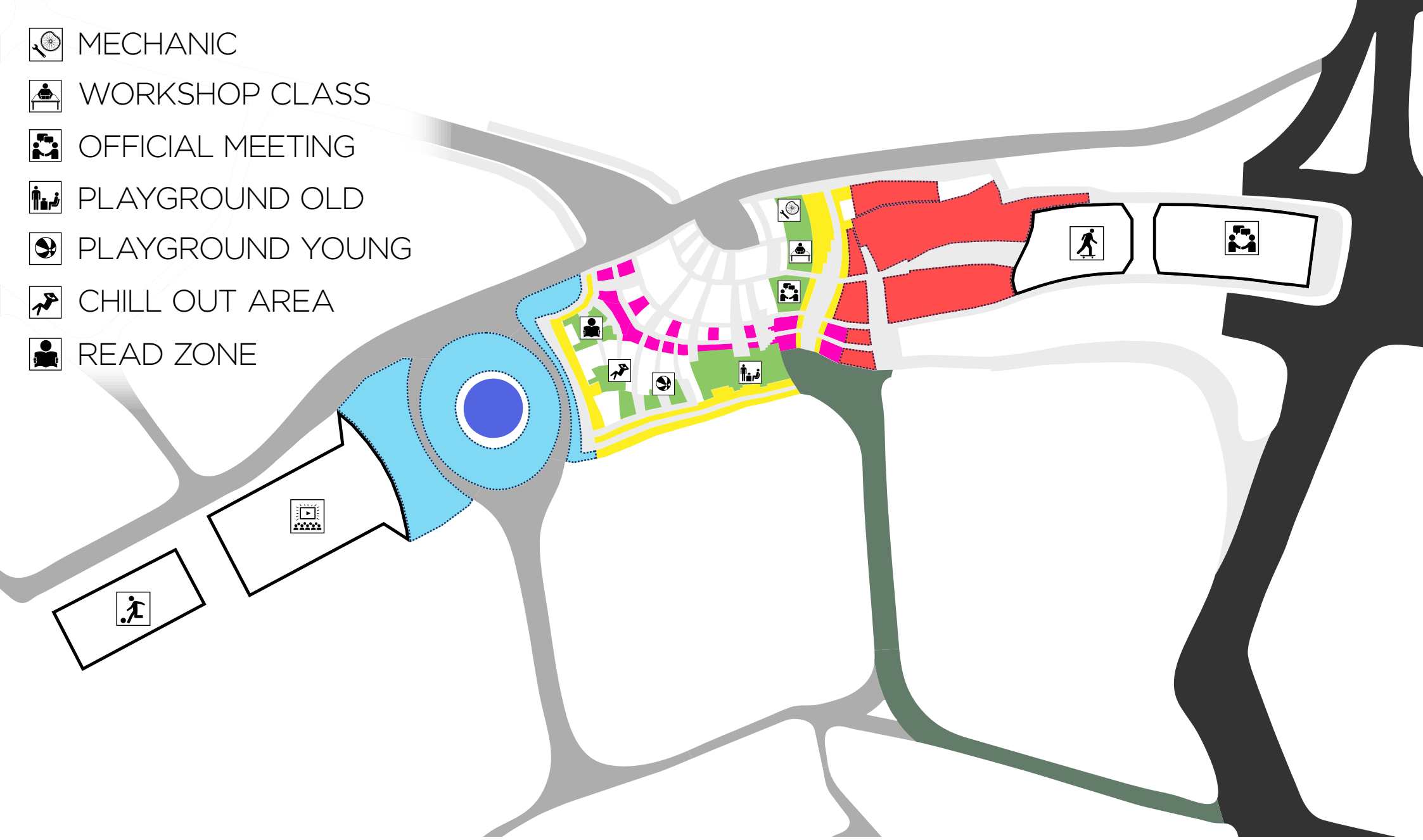


permanent exhibition in the Museum of Skate

furniture design exhibition from discarded skate decks



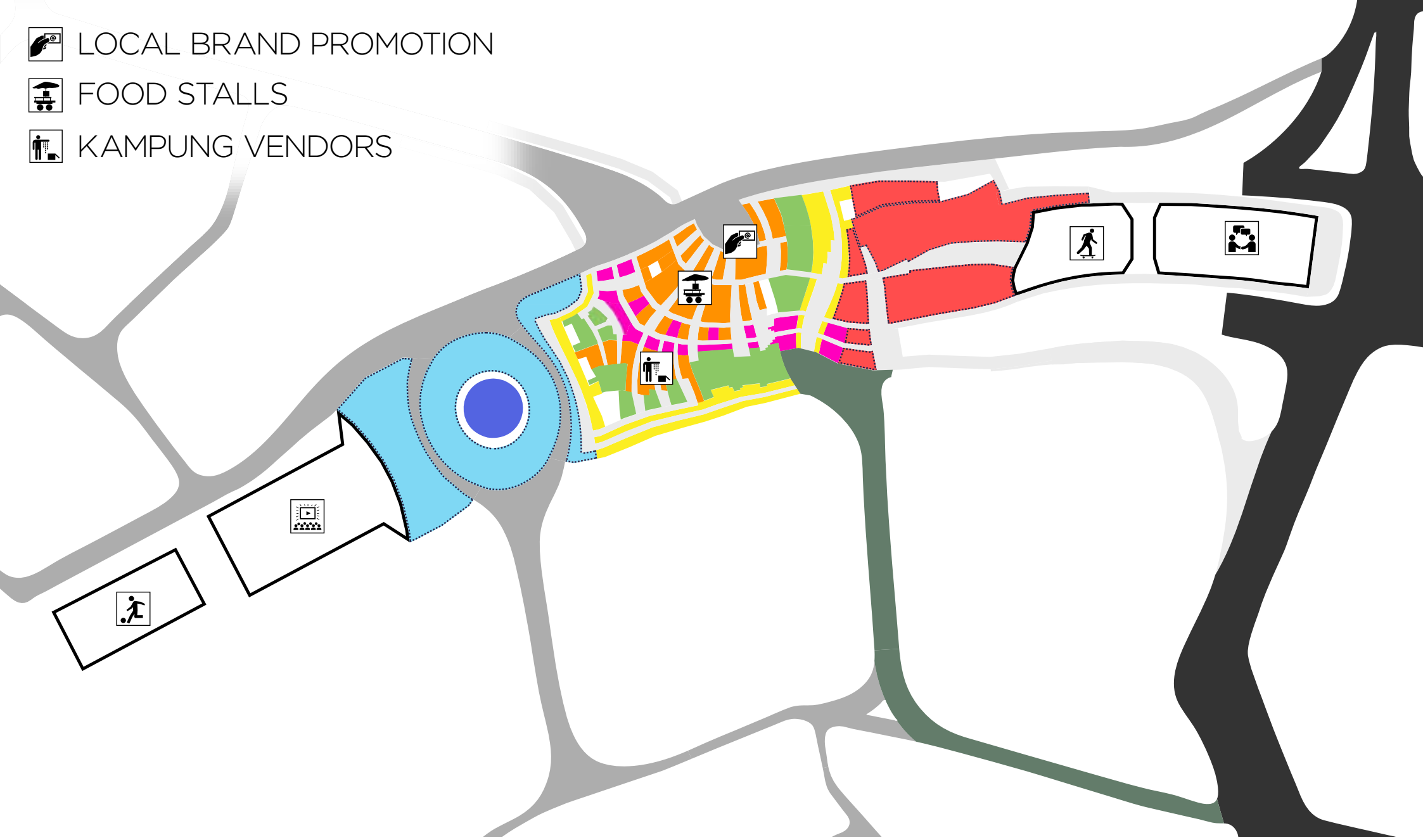
-  MECHANIC
-  WORKSHOP CLASS
-  OFFICIAL MEETING
-  PLAYGROUND OLD
-  PLAYGROUND YOUNG
-  CHILL OUT AREA
-  READ ZONE



 LOCAL BRAND PROMOTION

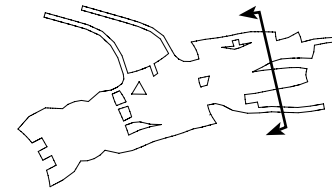
 FOOD STALLS

 KAMPUNG VENDORS

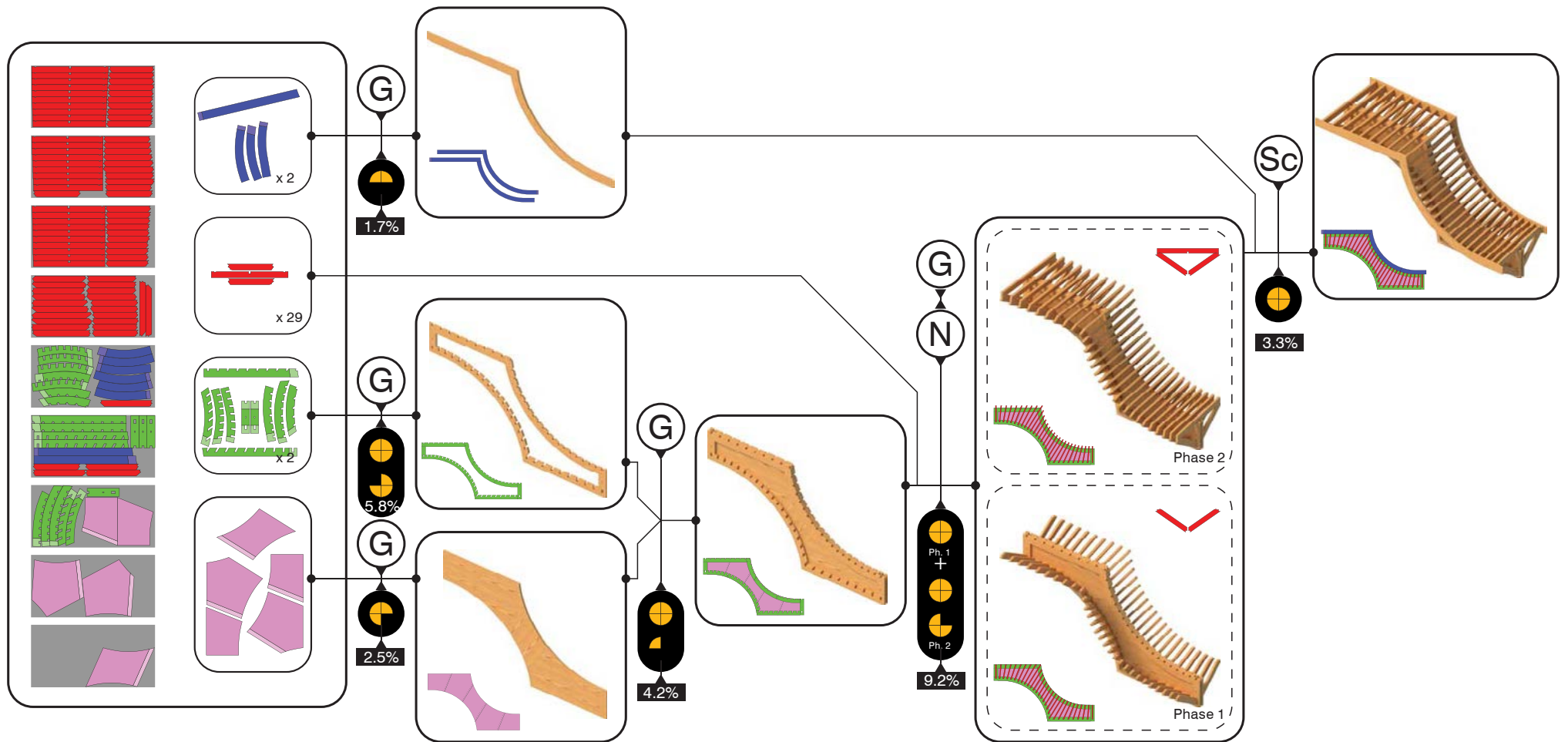


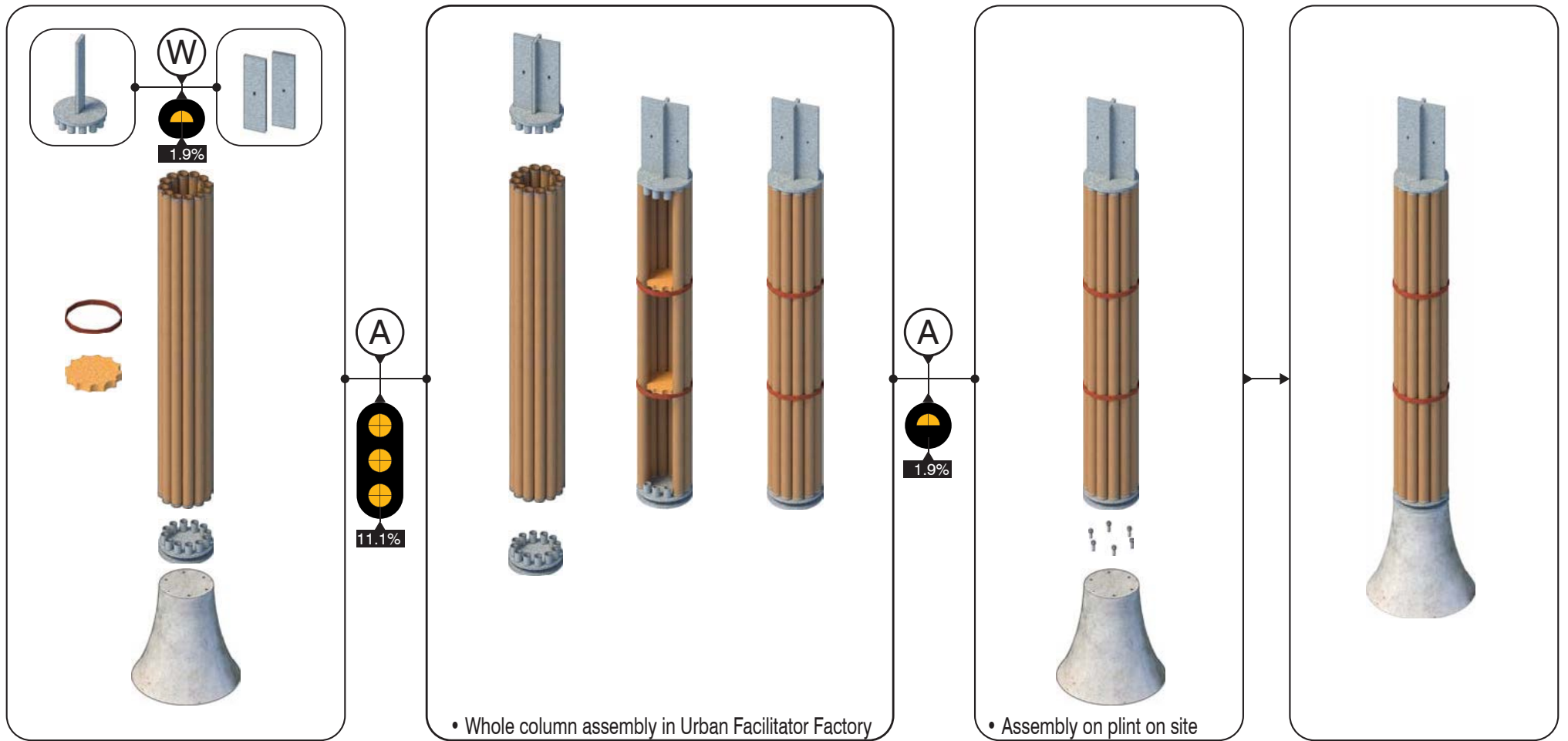


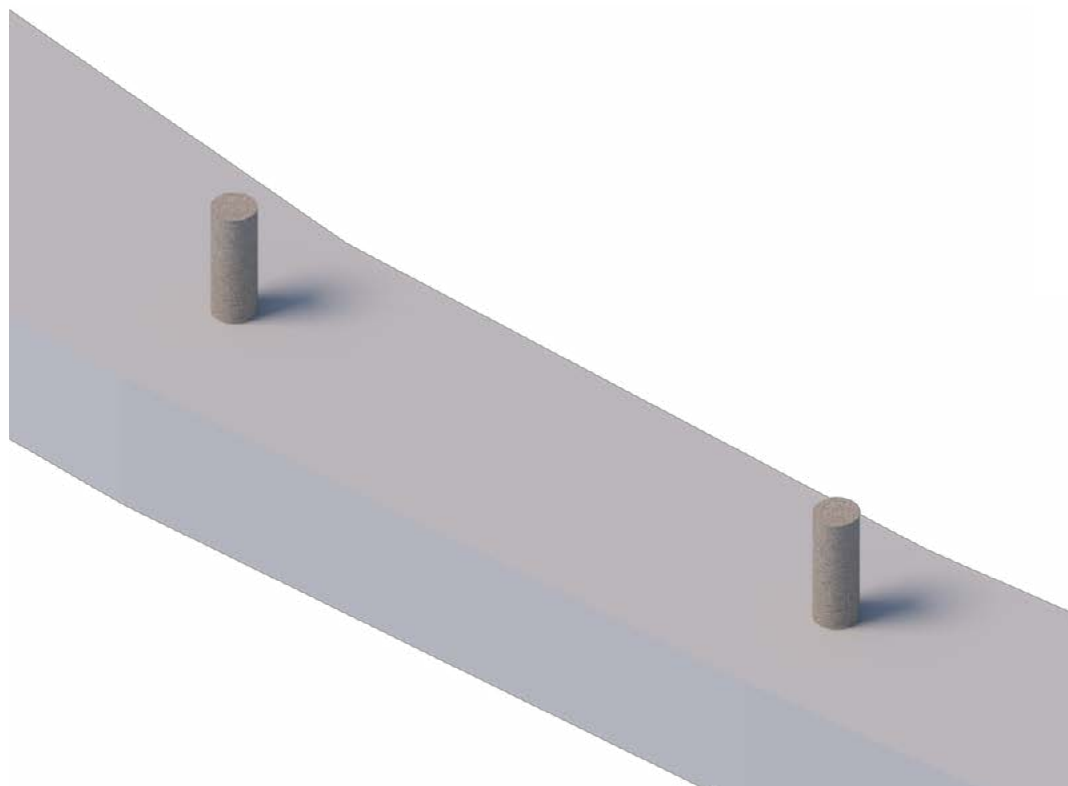
everyday commercial & leisure activities in the Urban Facilitator

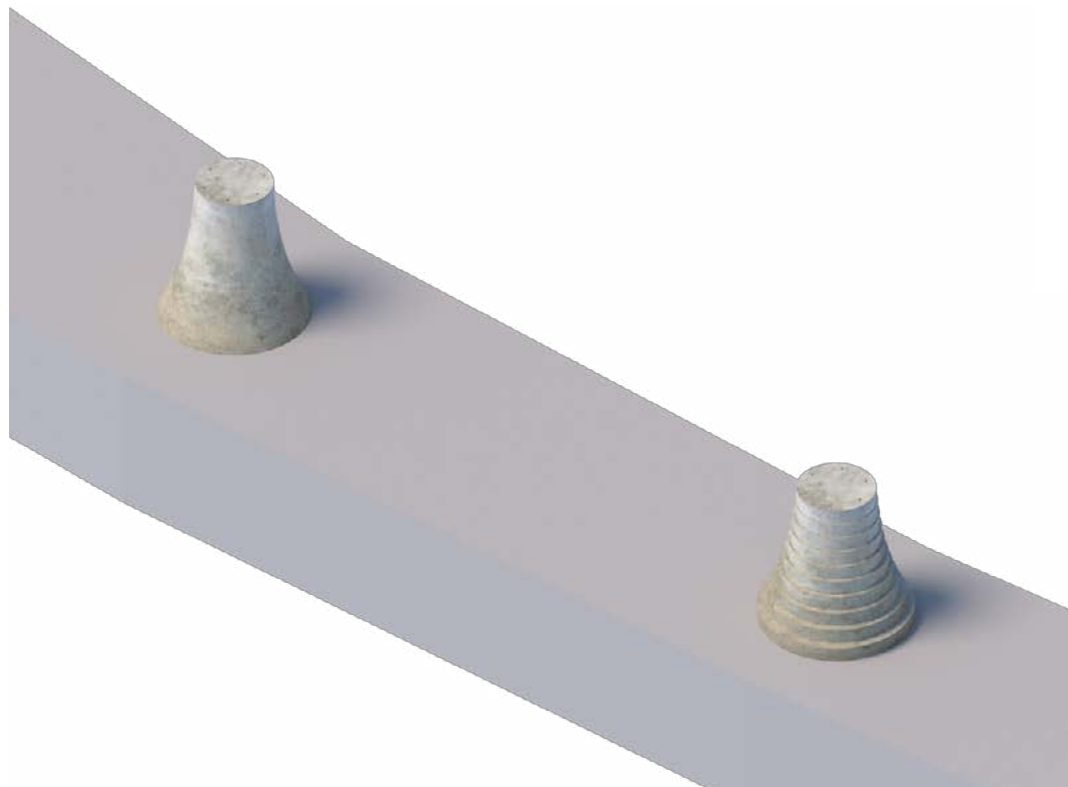


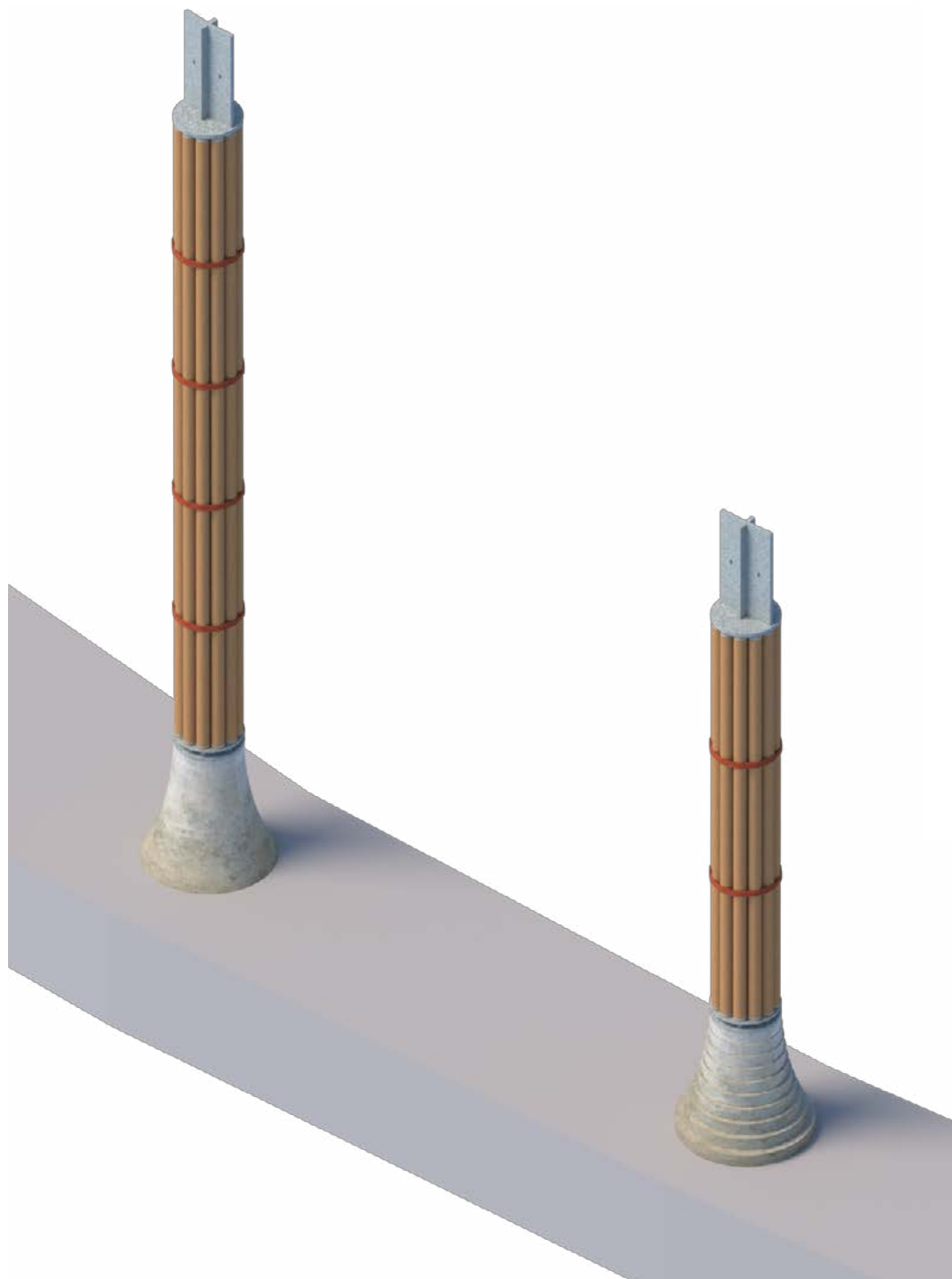
DESIGN / Section 1 : 50 / Wood factory & workshops

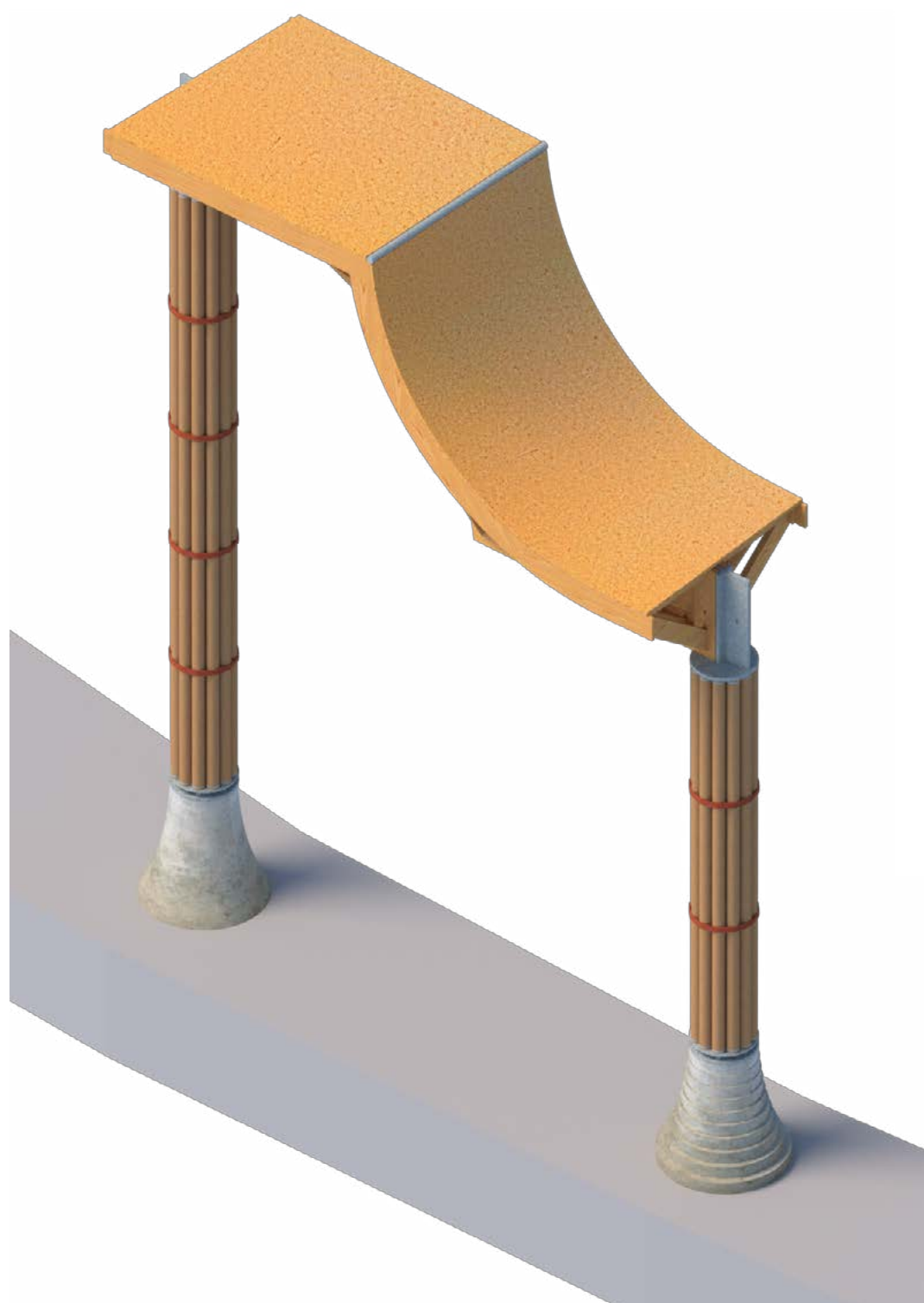




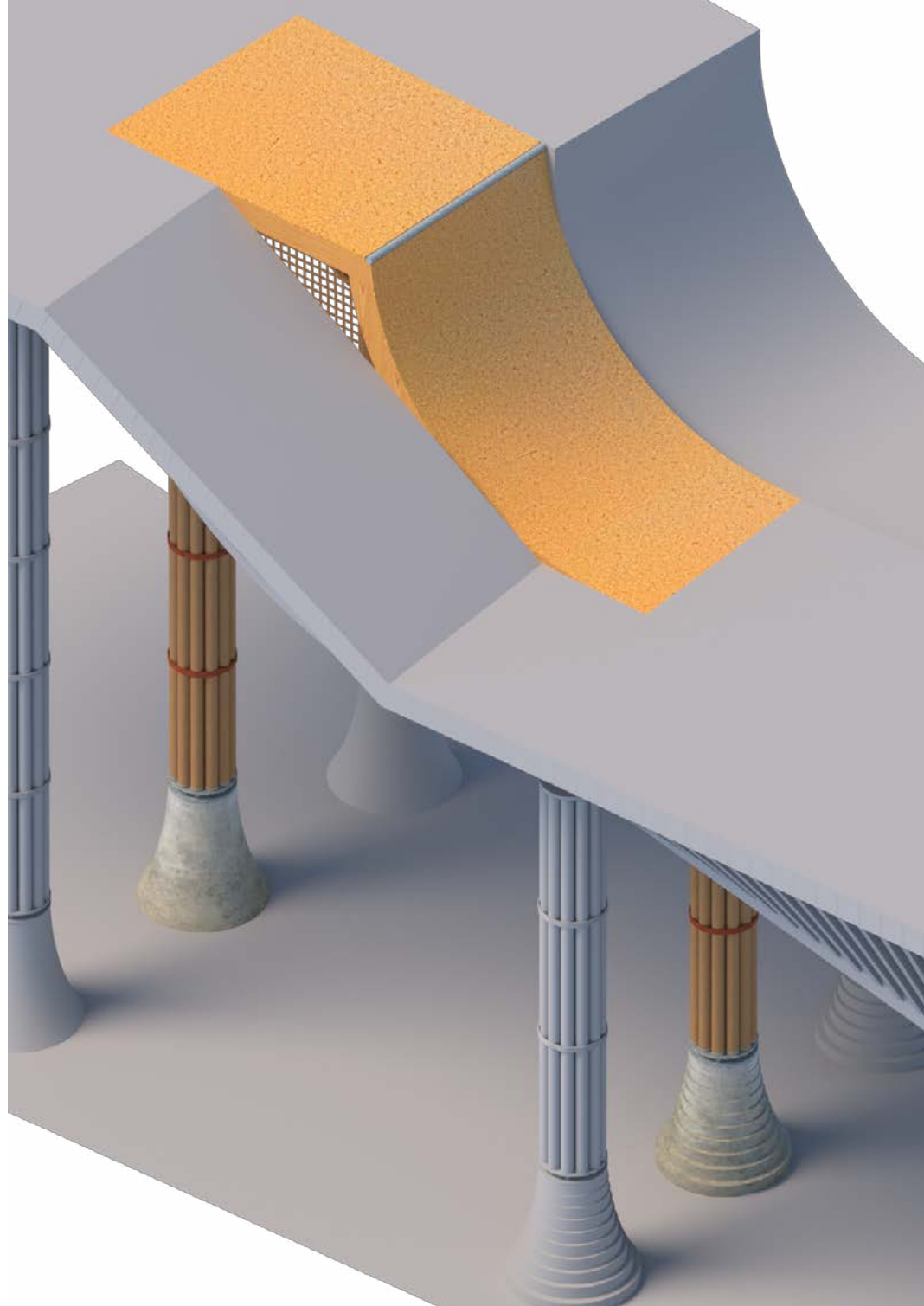




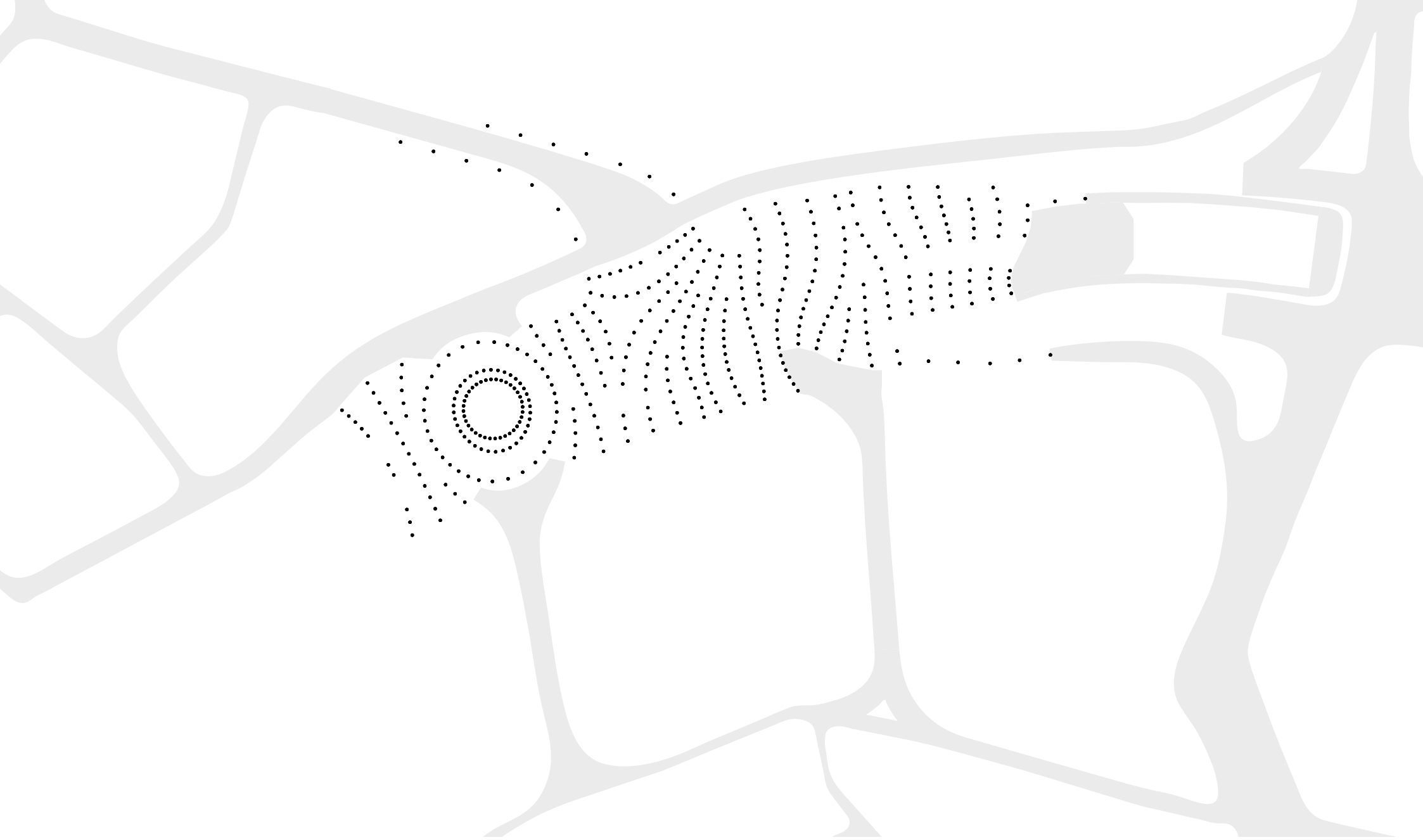


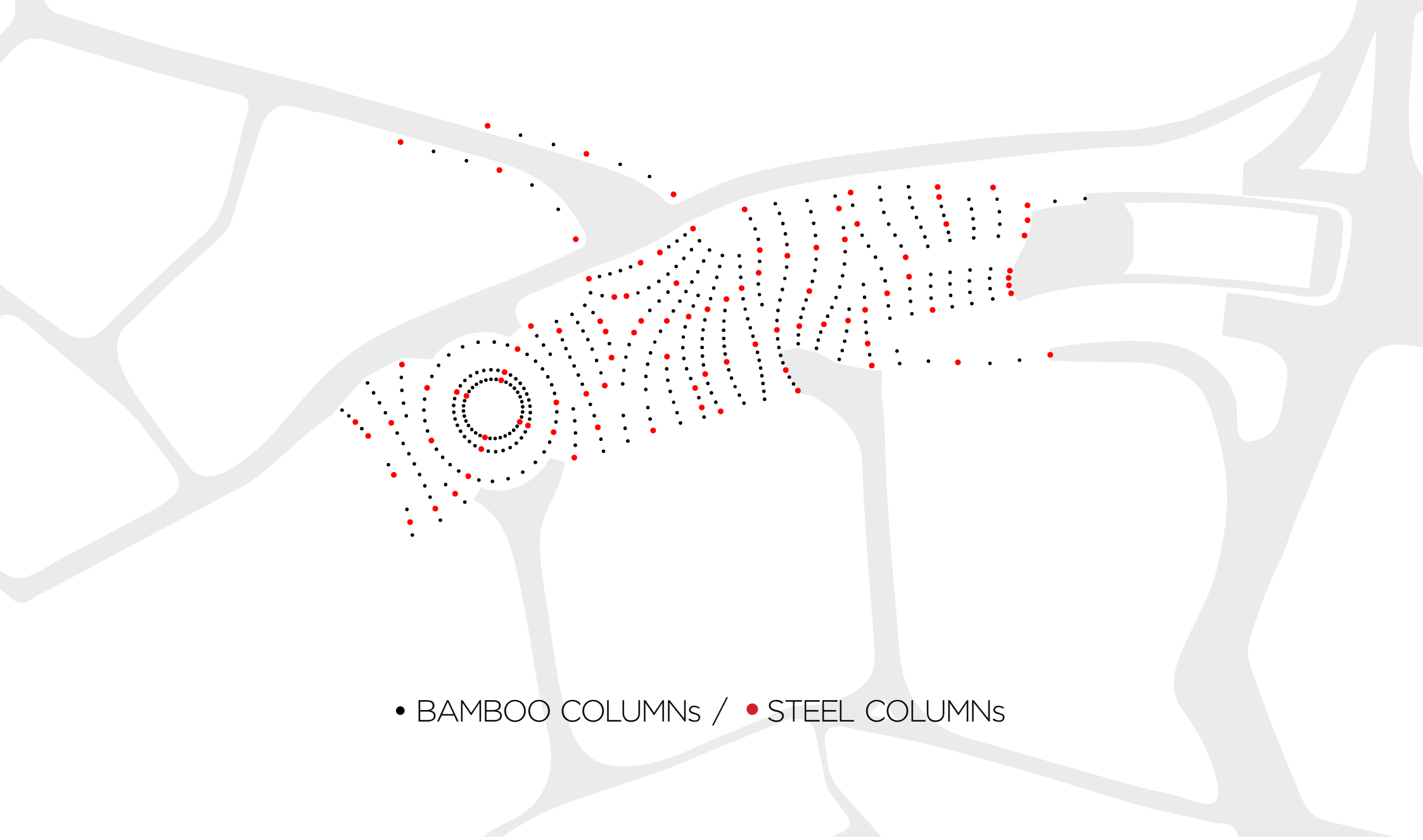


ASSEMBLY / Skate-element placement

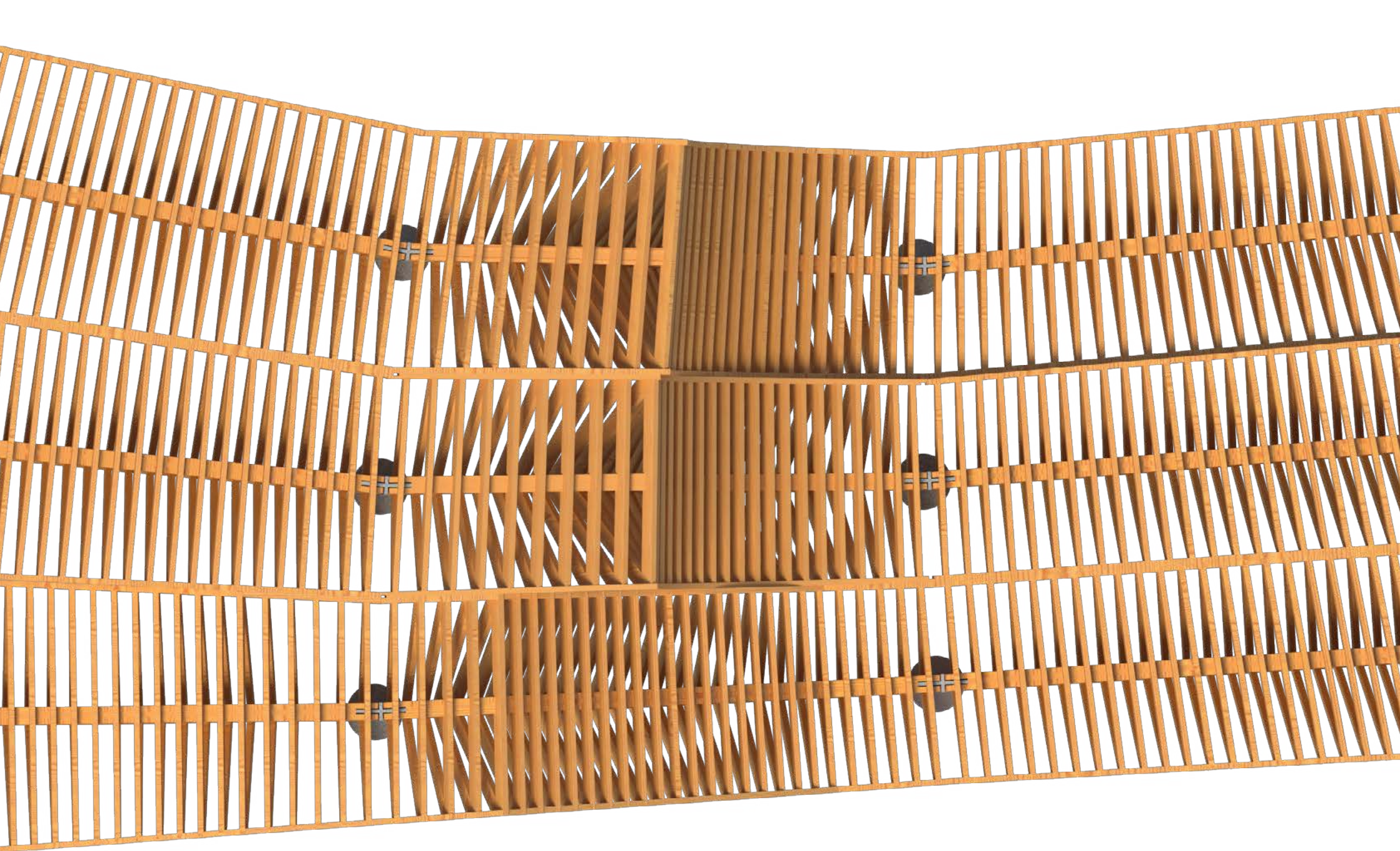


ASSEMBLY / Connection with neighbouring skate-elements

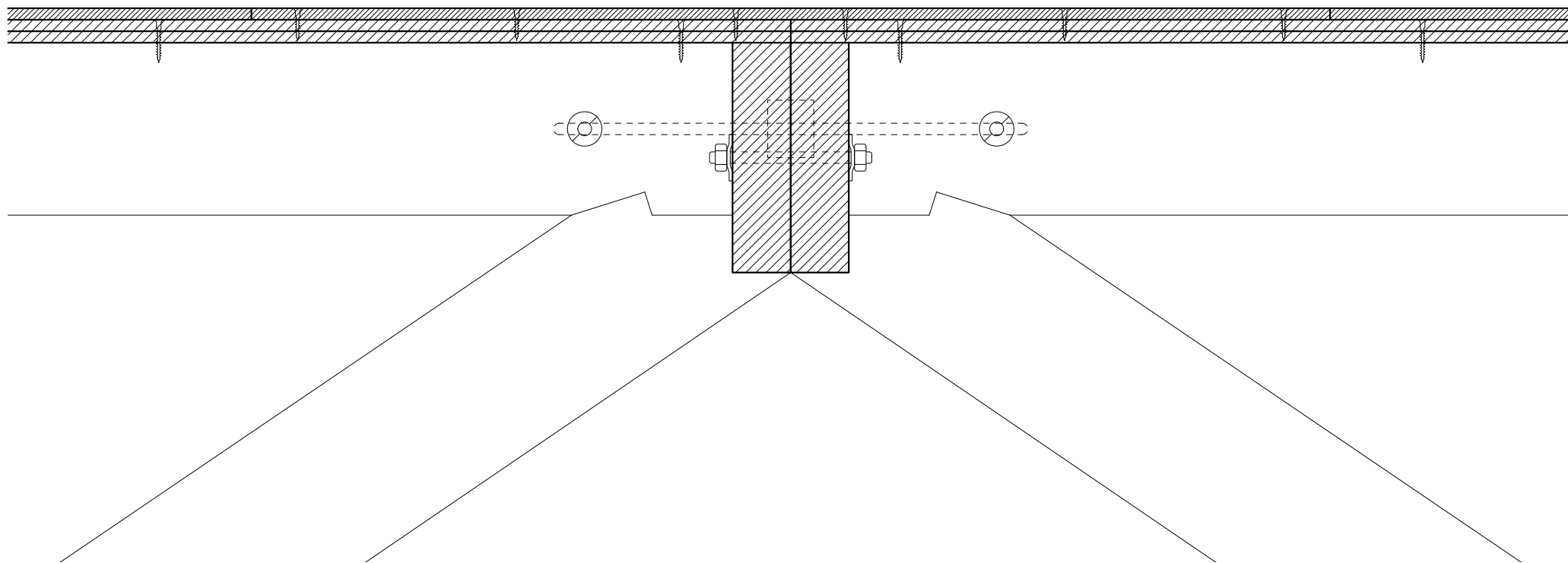




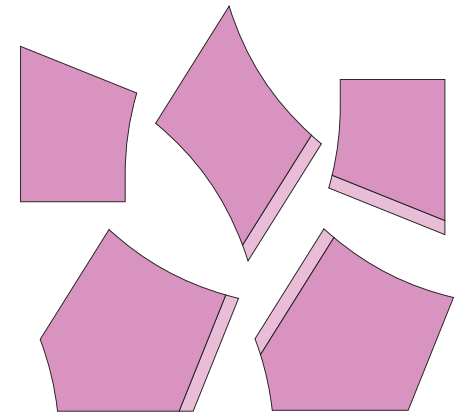
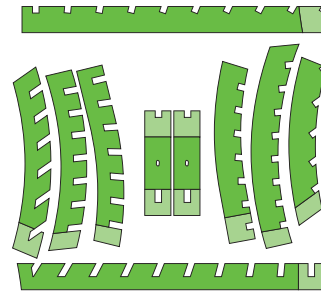
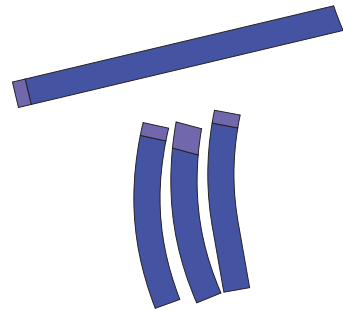
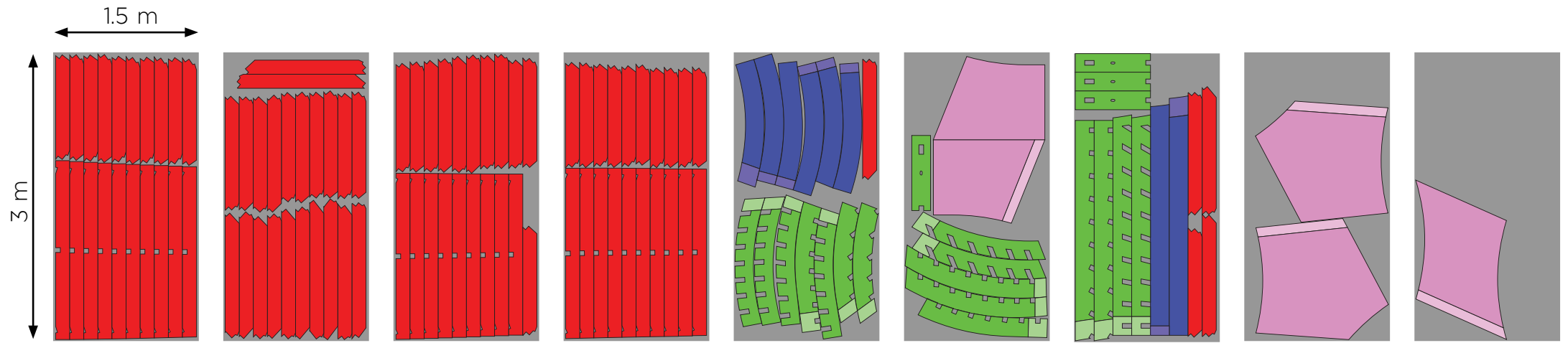
• BAMBOO COLUMNS / • STEEL COLUMNS

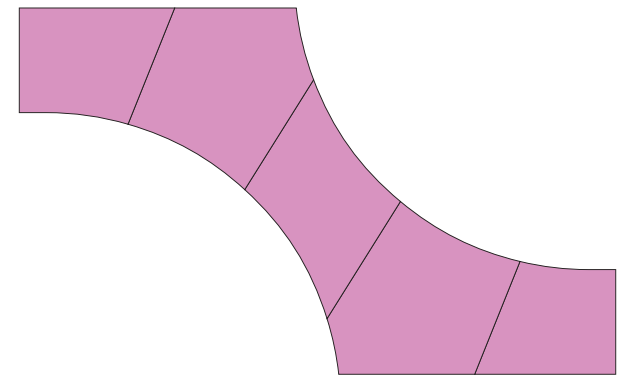
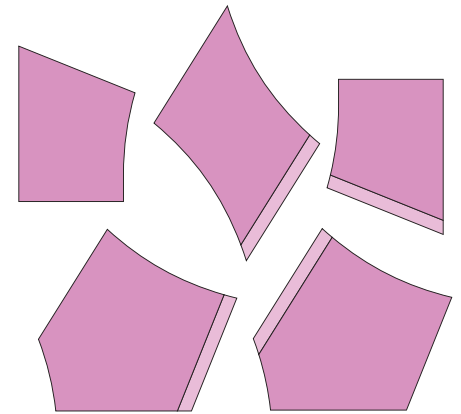


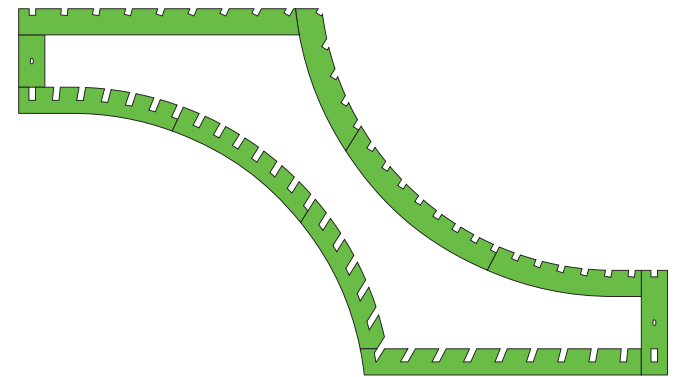
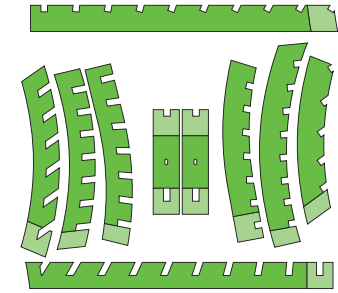
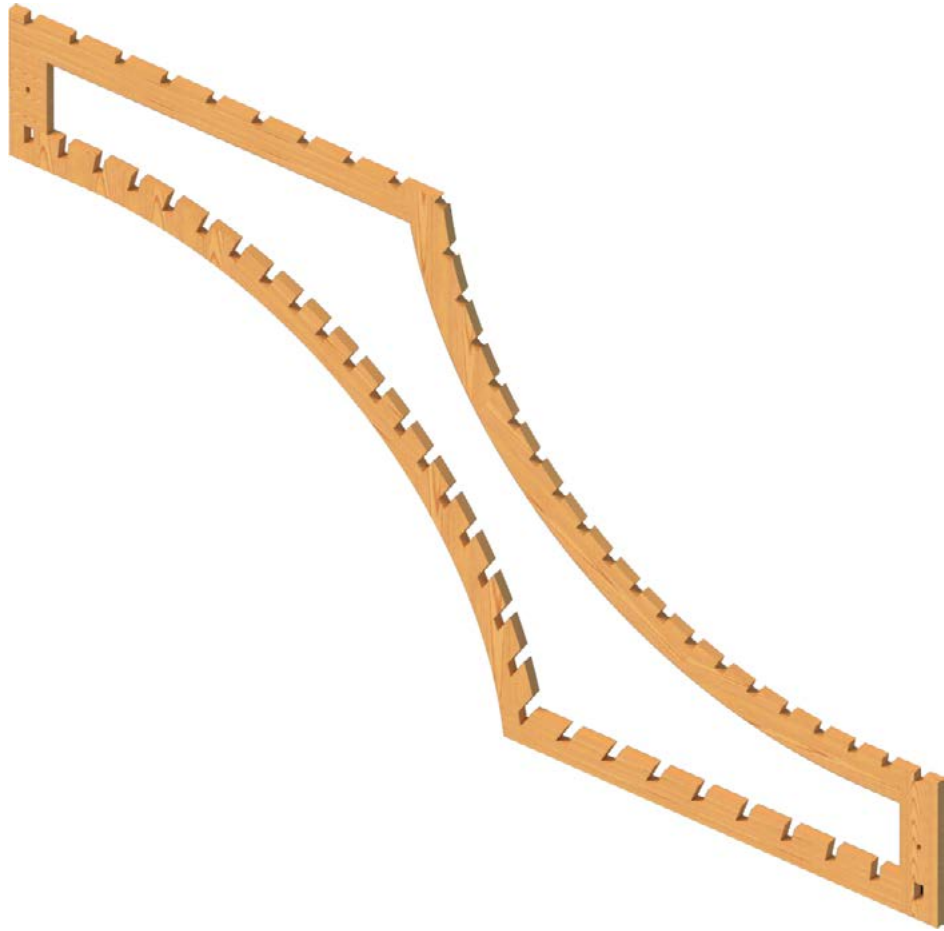
ASSEMBLY / Connection with neighbouring elements

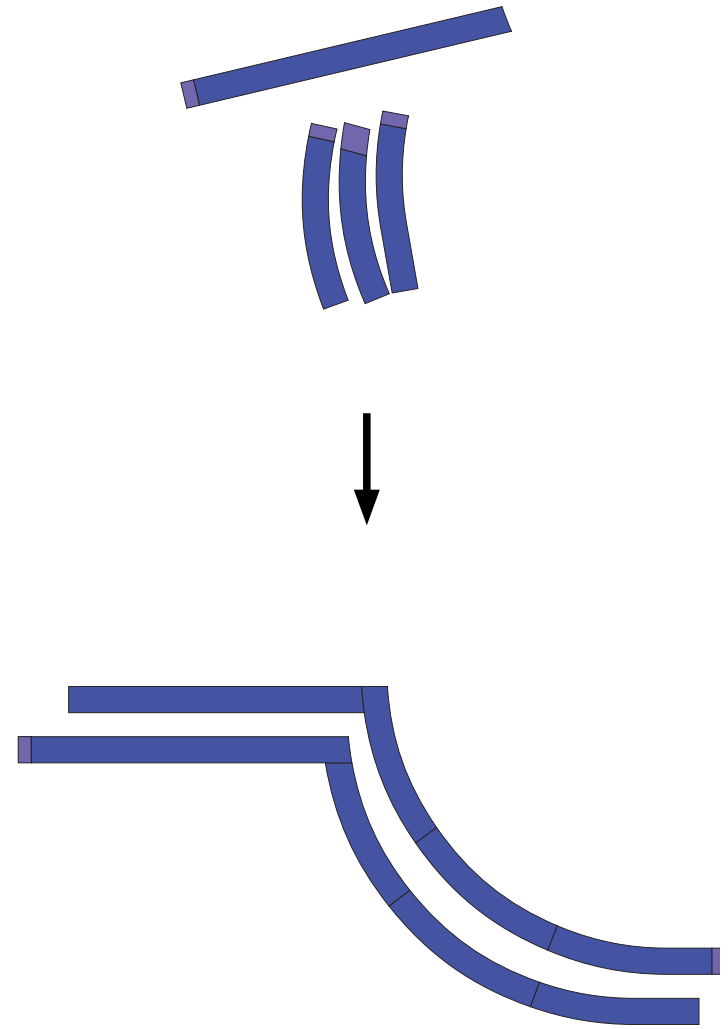
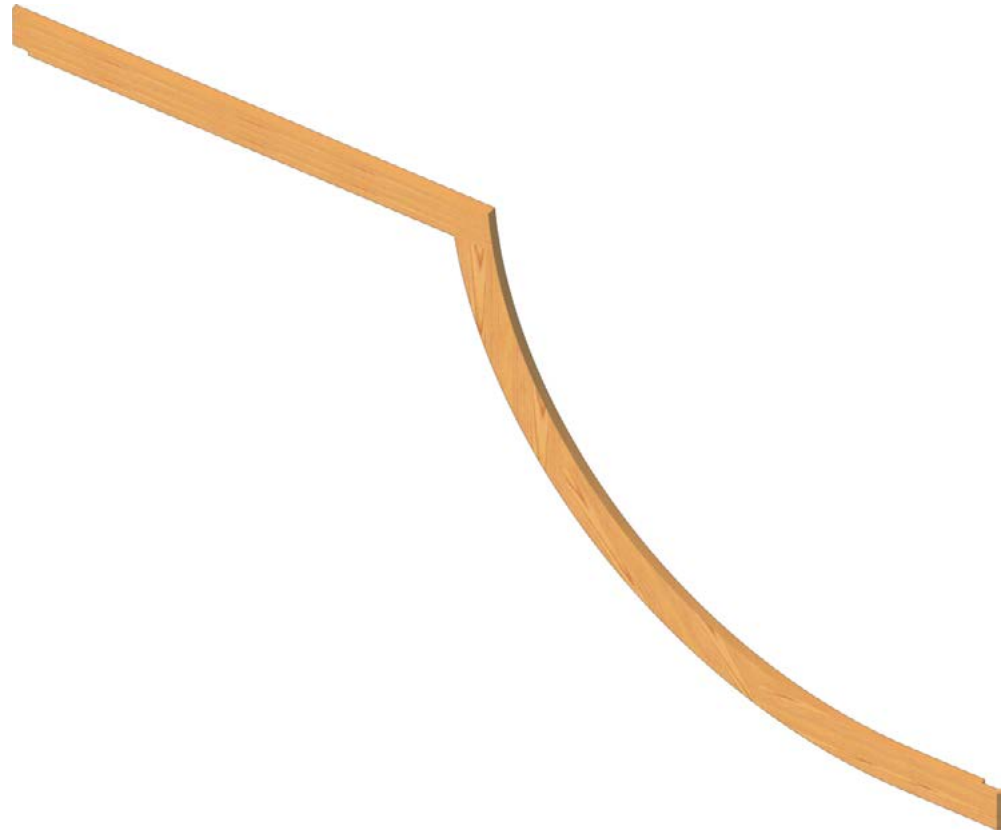


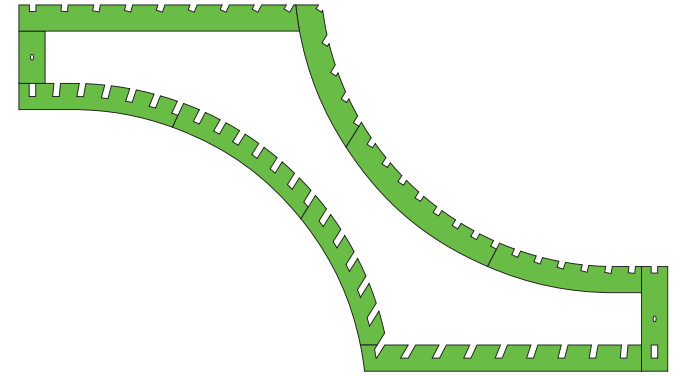
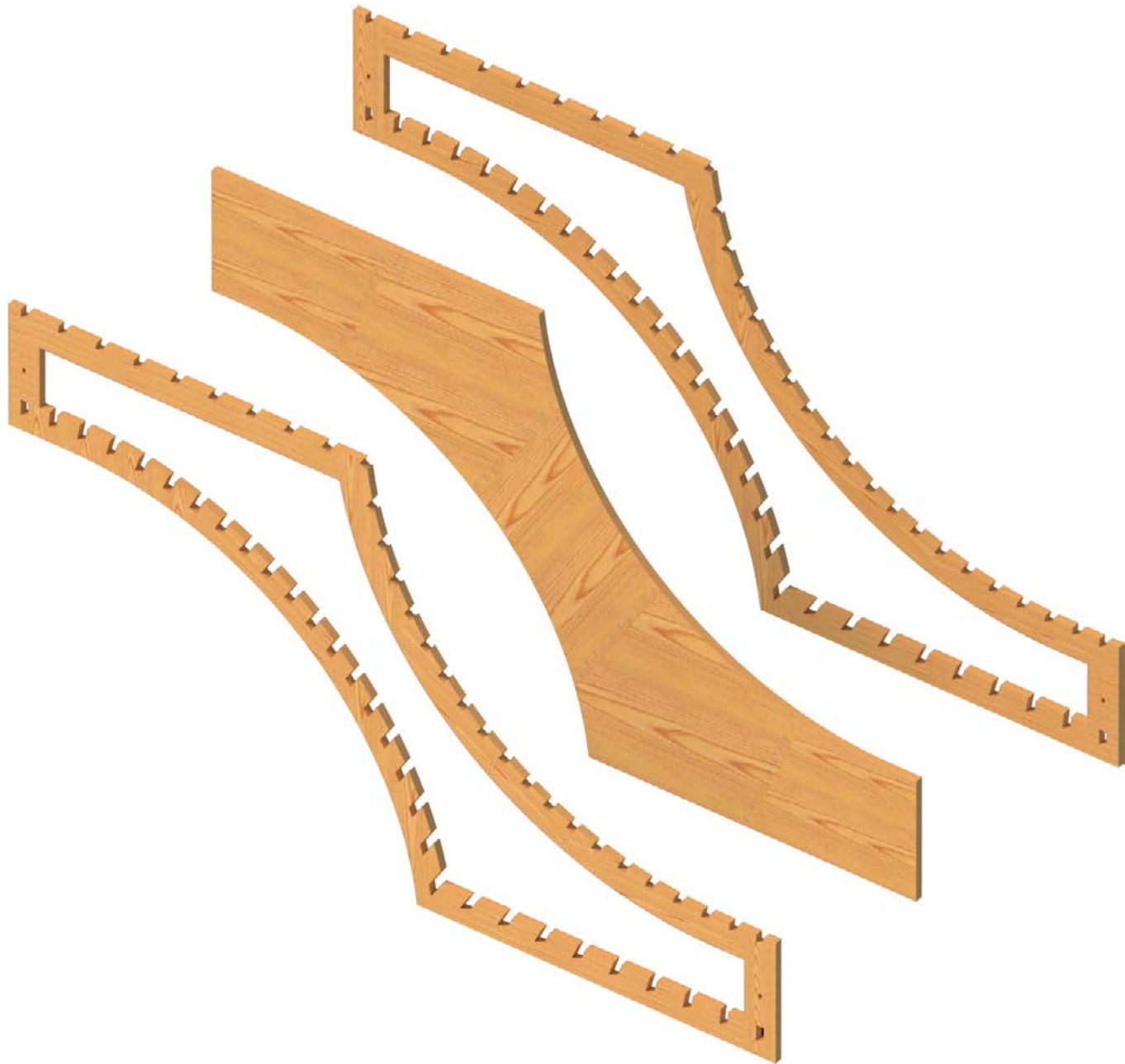
DETAIL / Connection with neighbouring elements // Bolt & nut connection



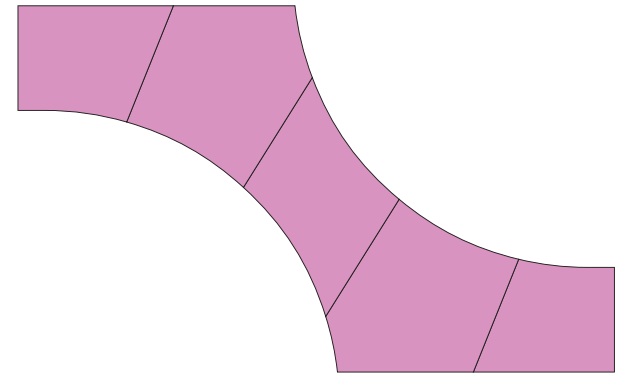


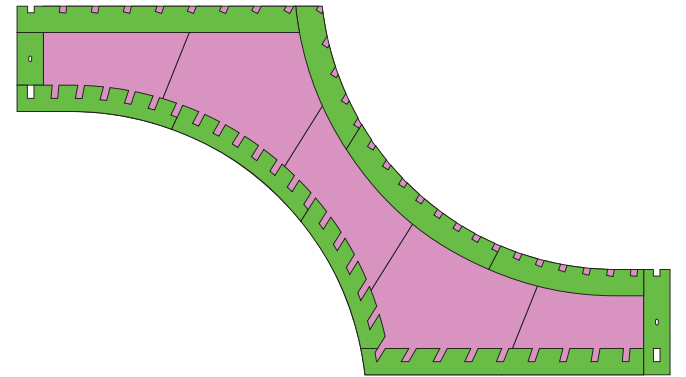


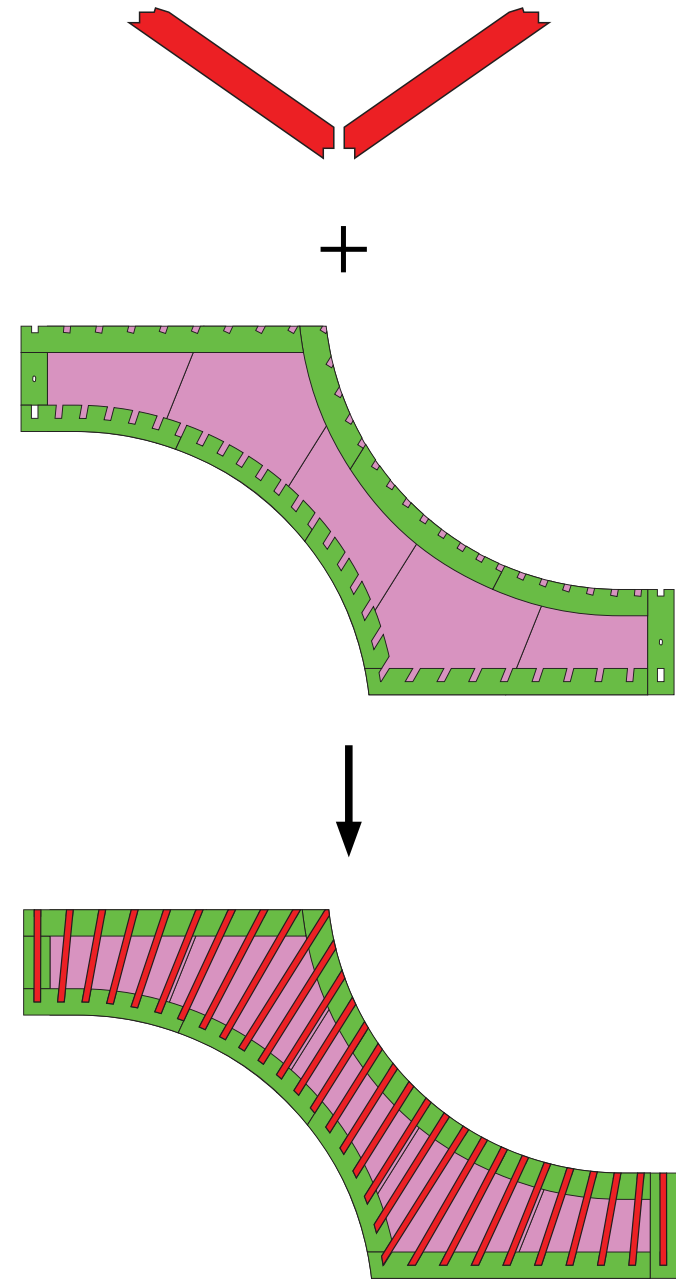
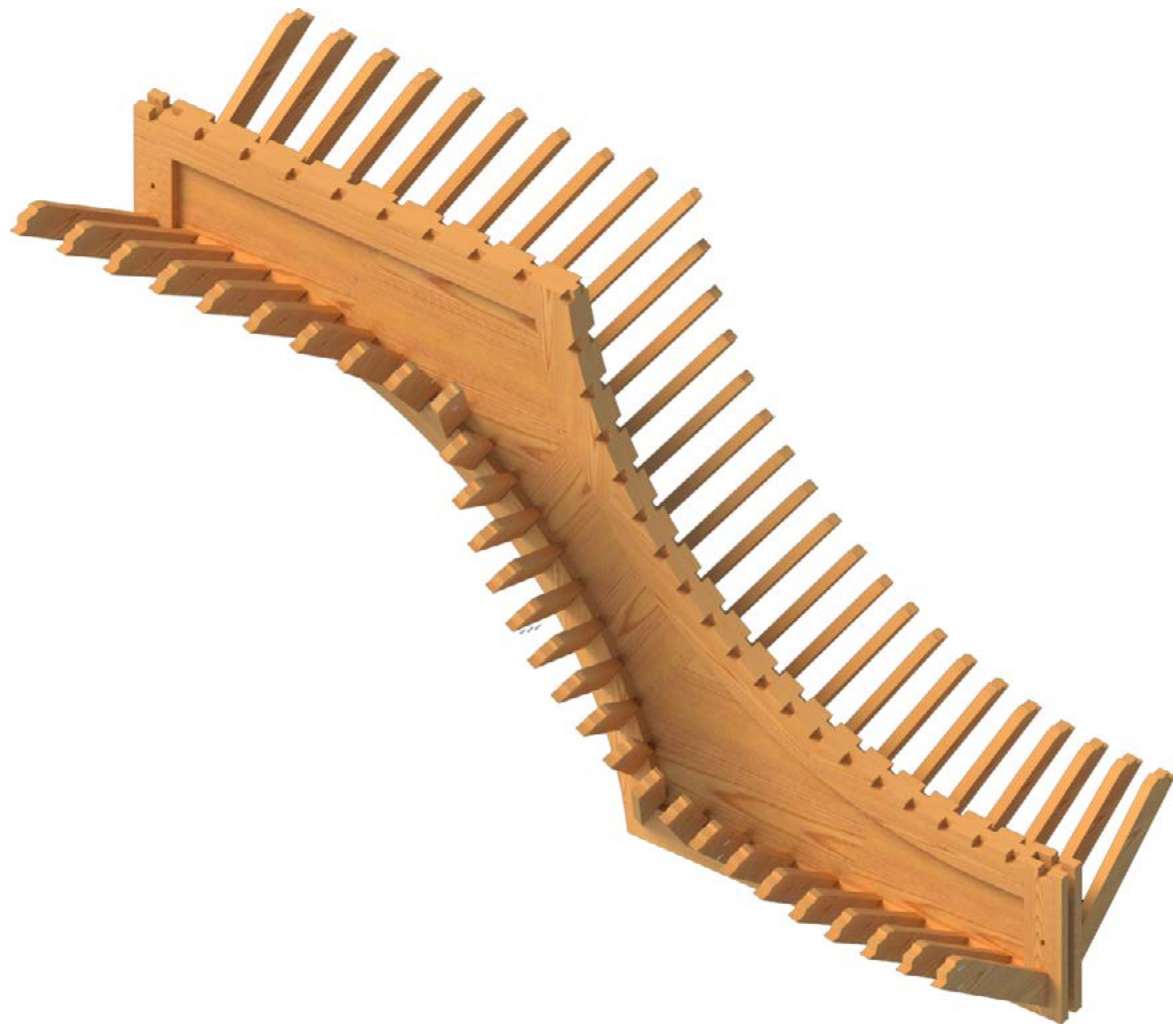


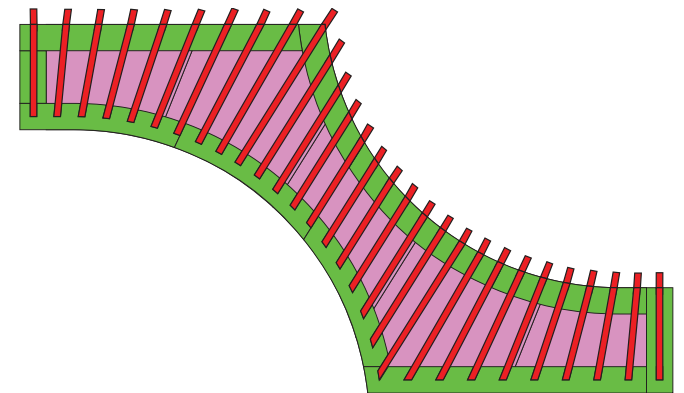
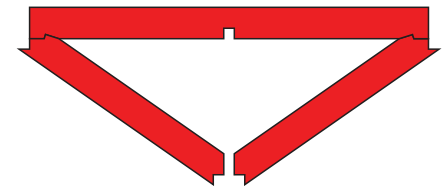


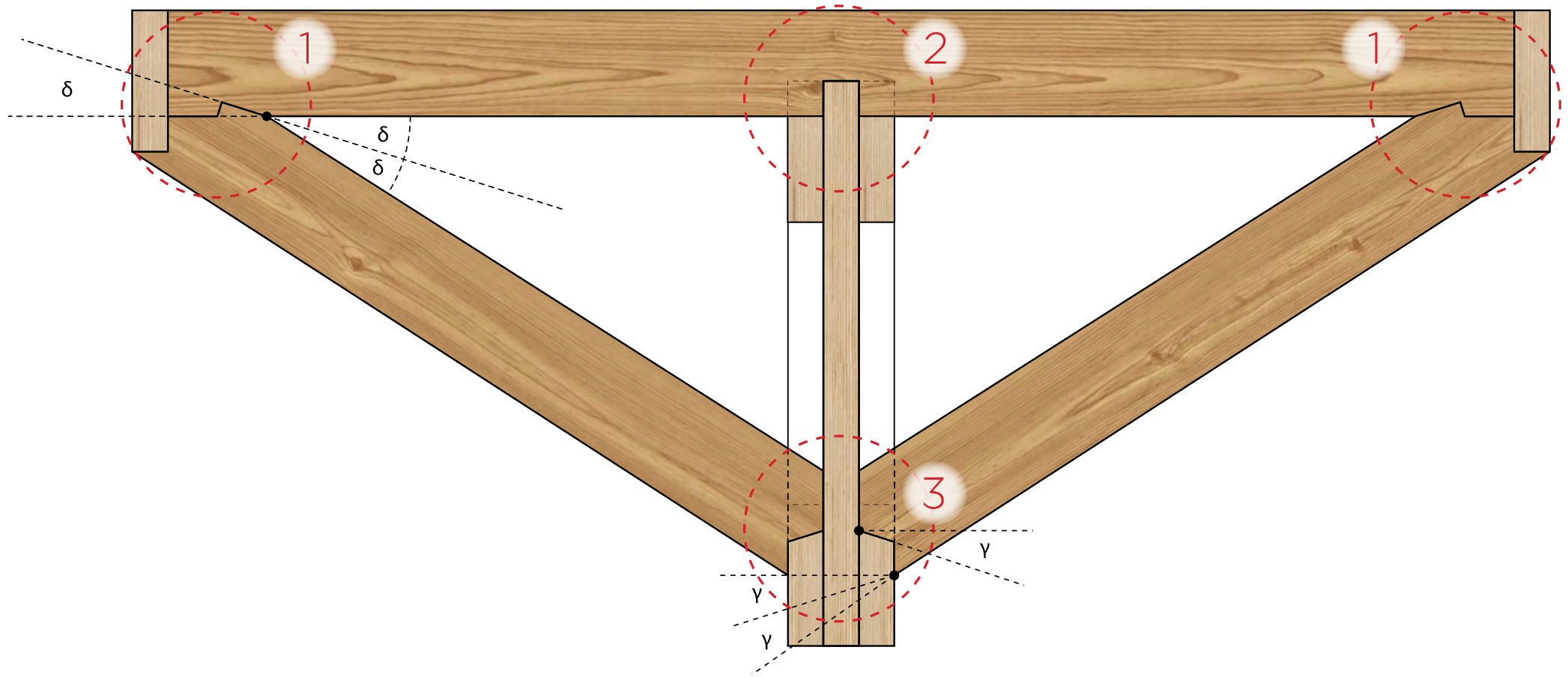
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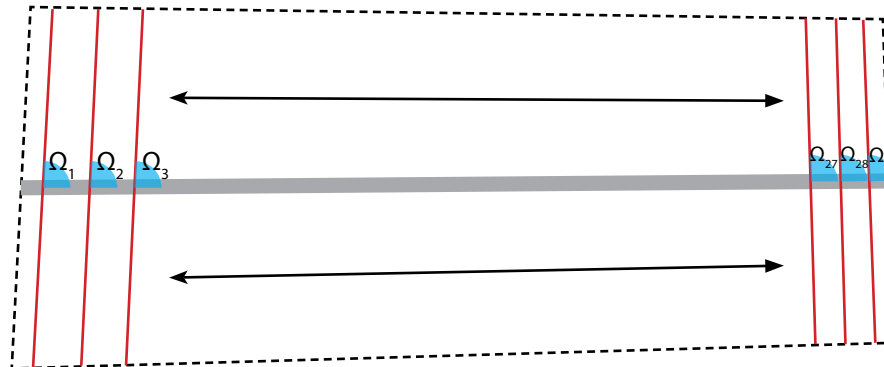
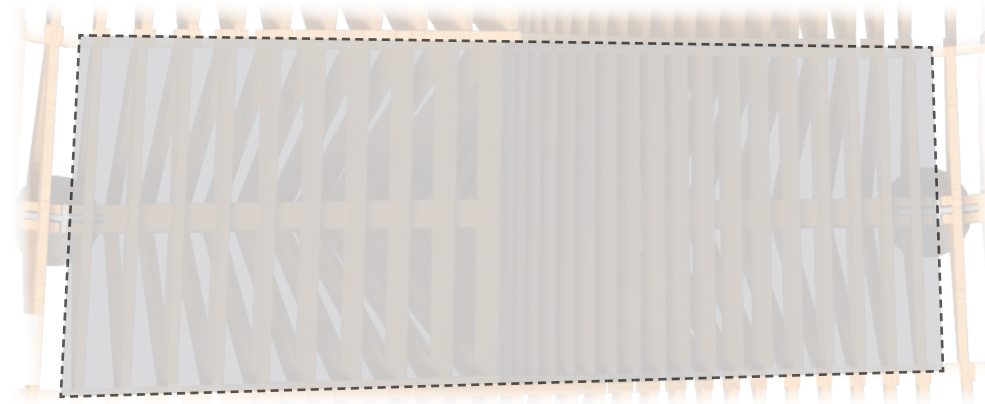
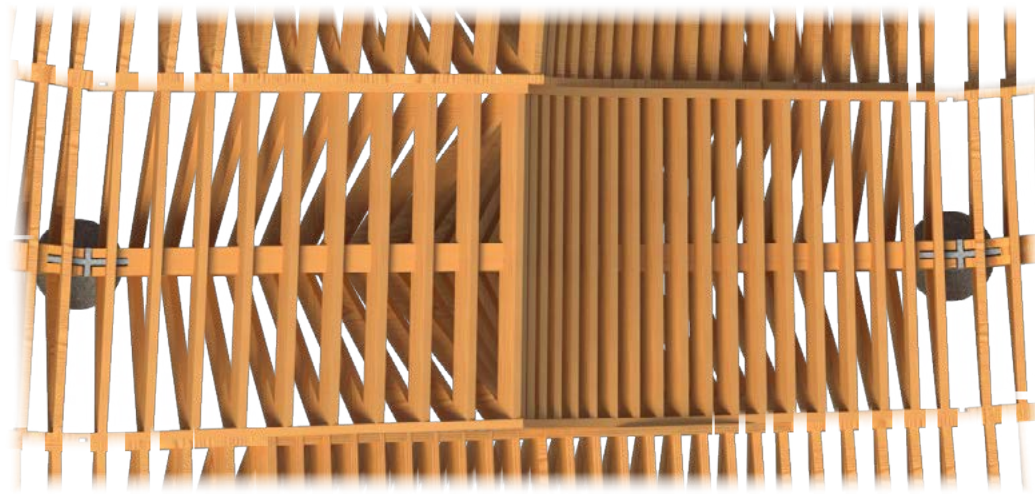


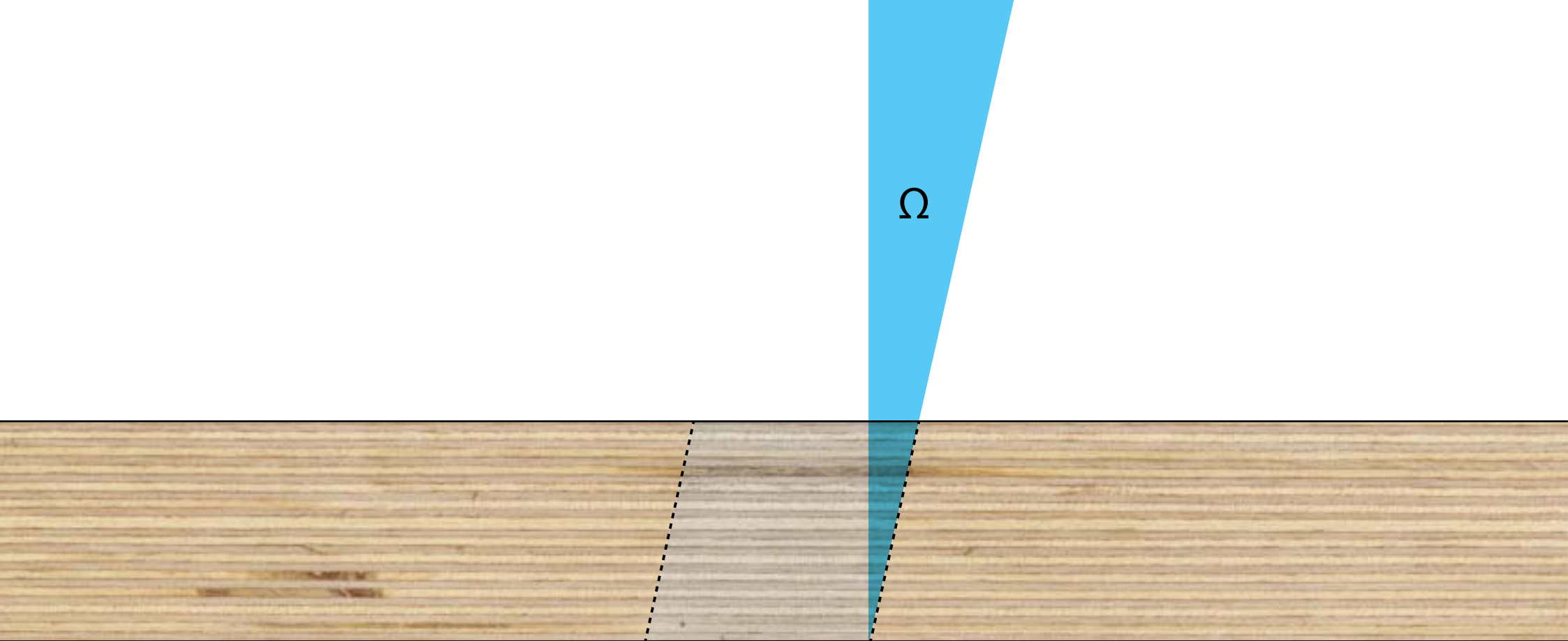


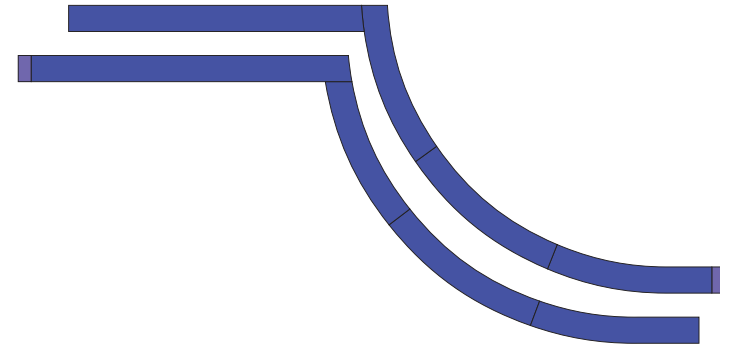
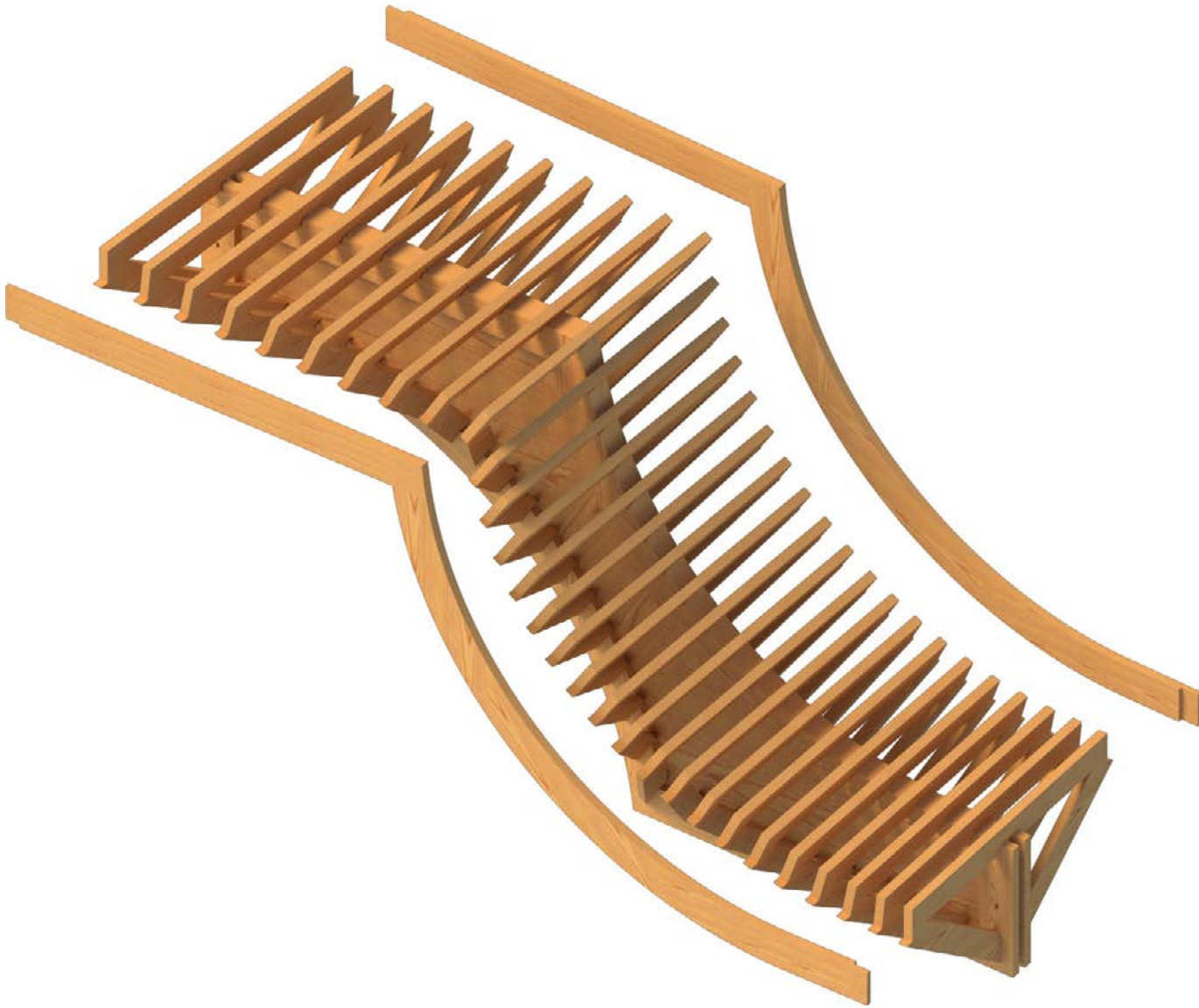




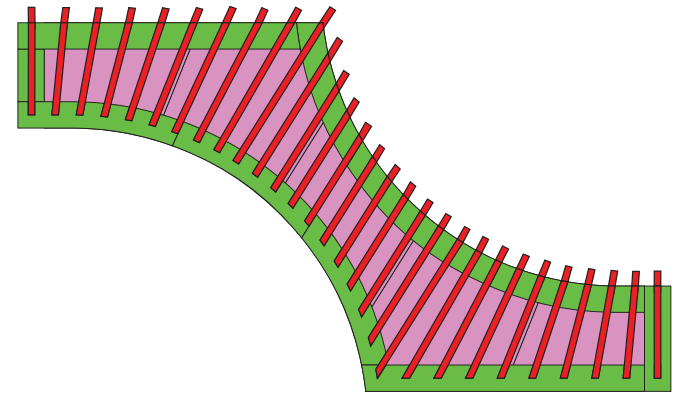


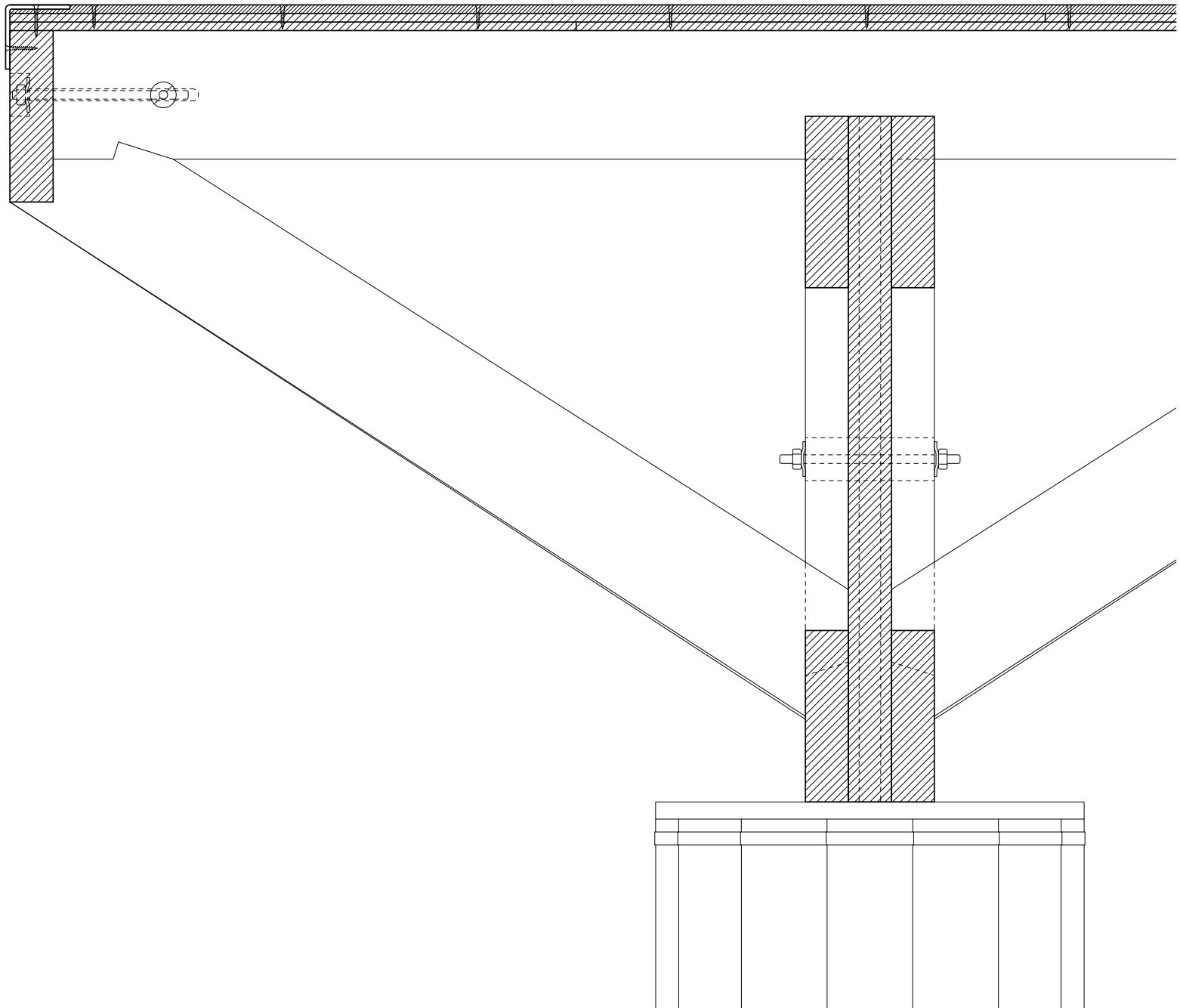


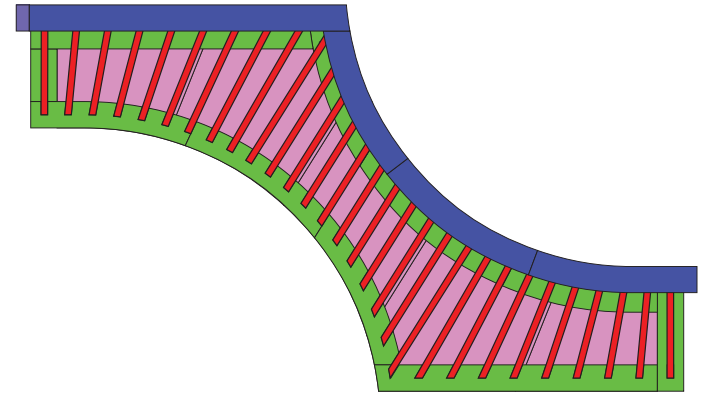




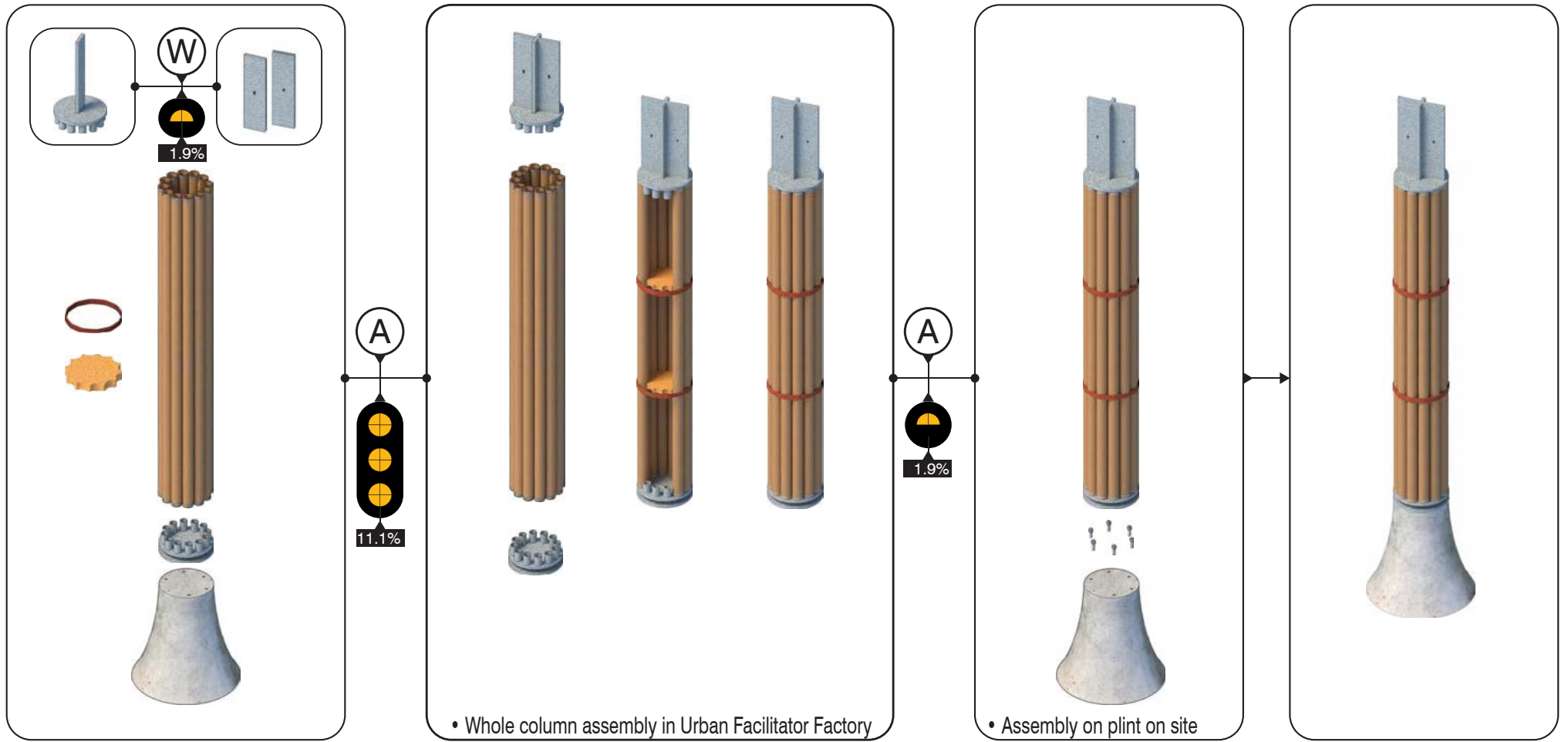
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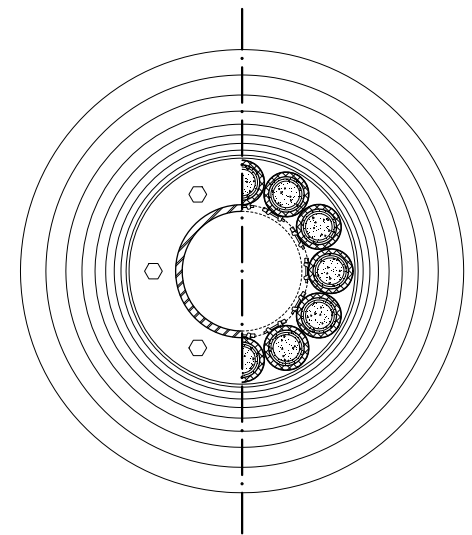
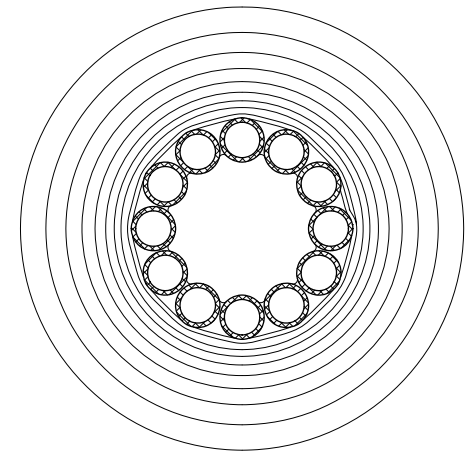
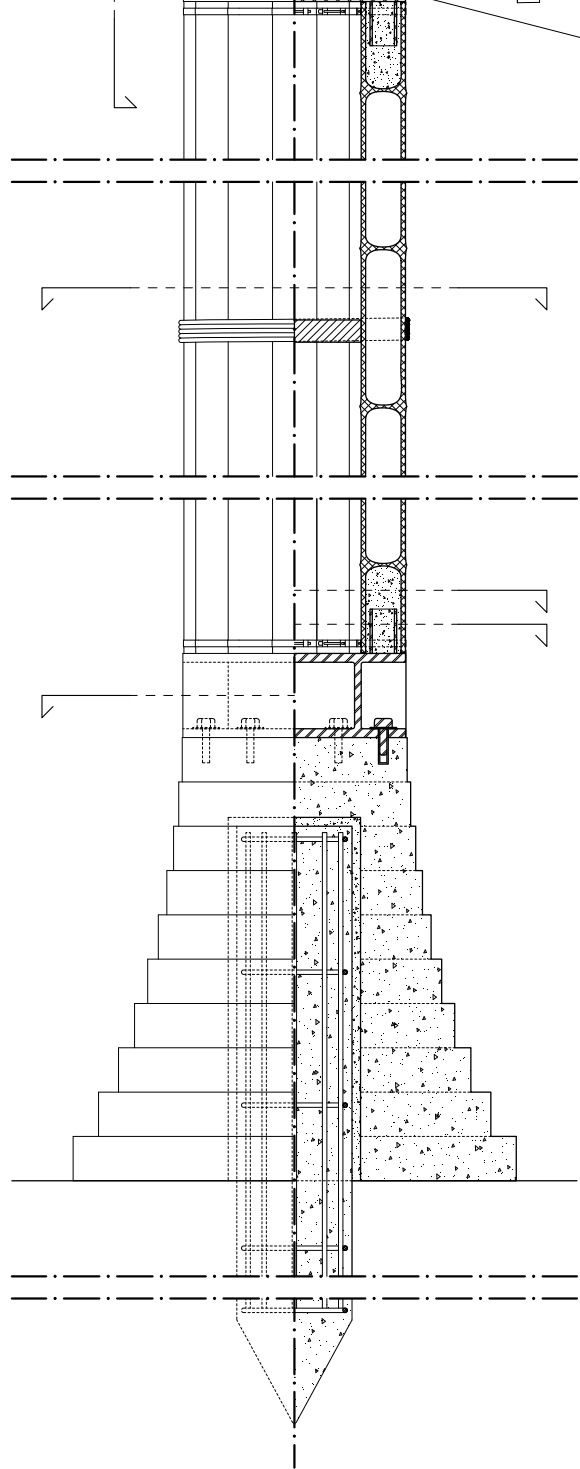


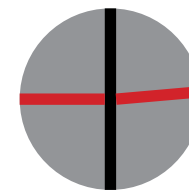
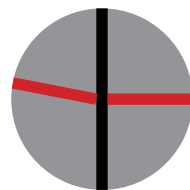
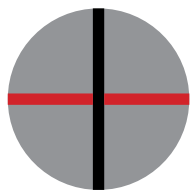
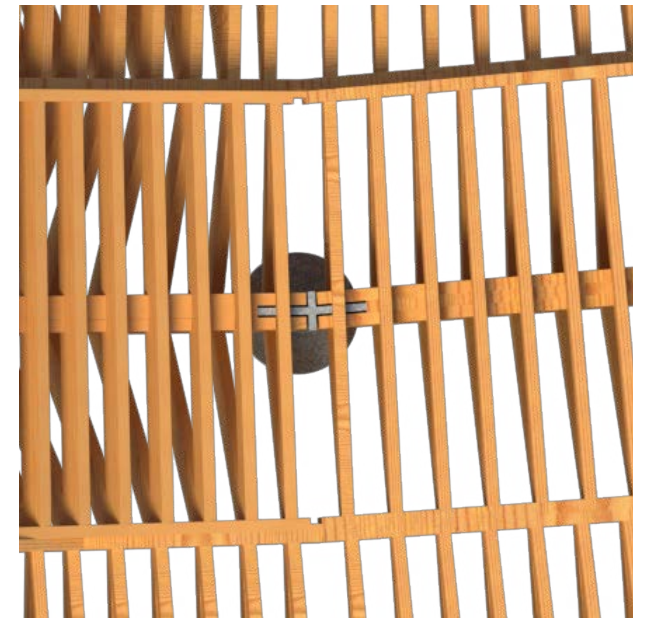
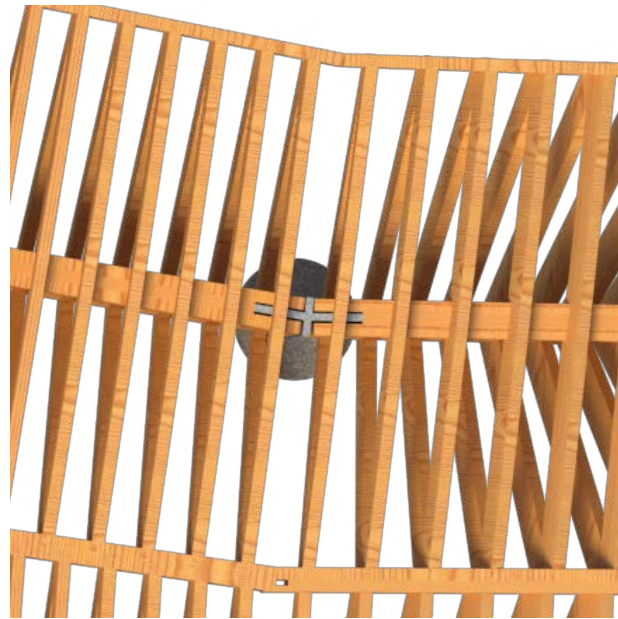
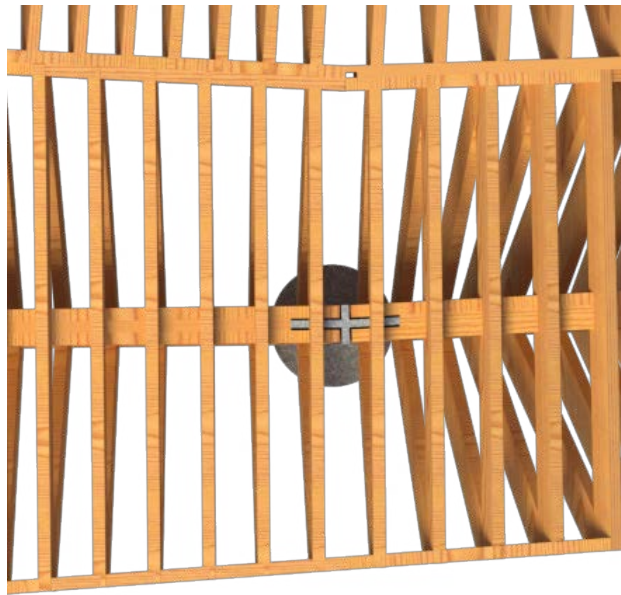
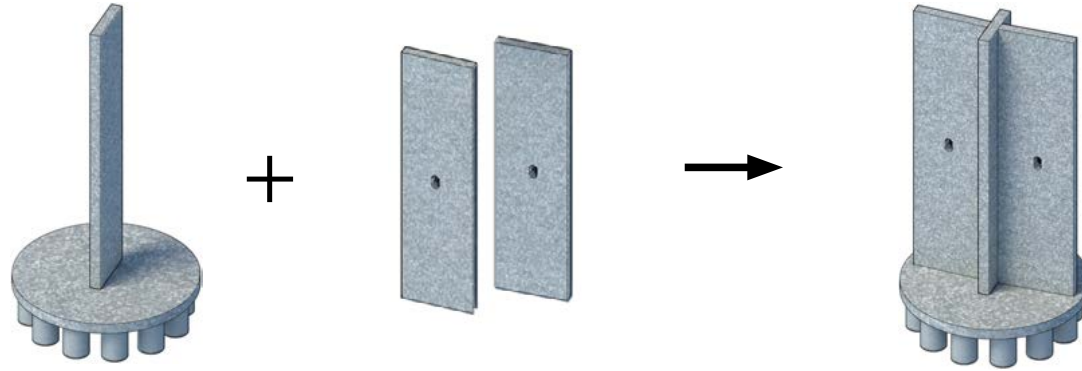


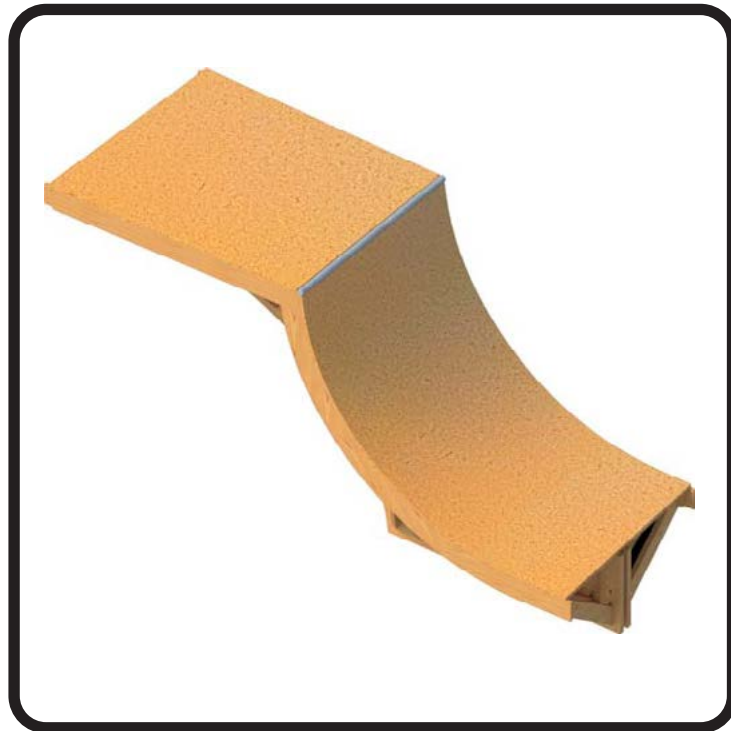






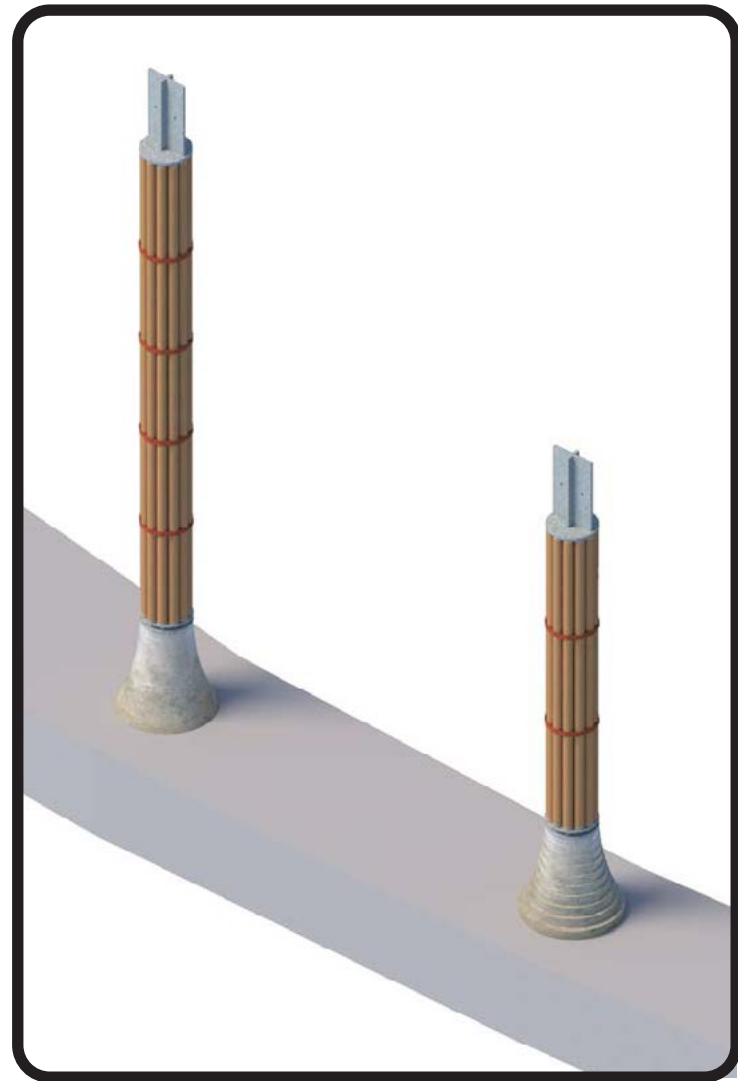




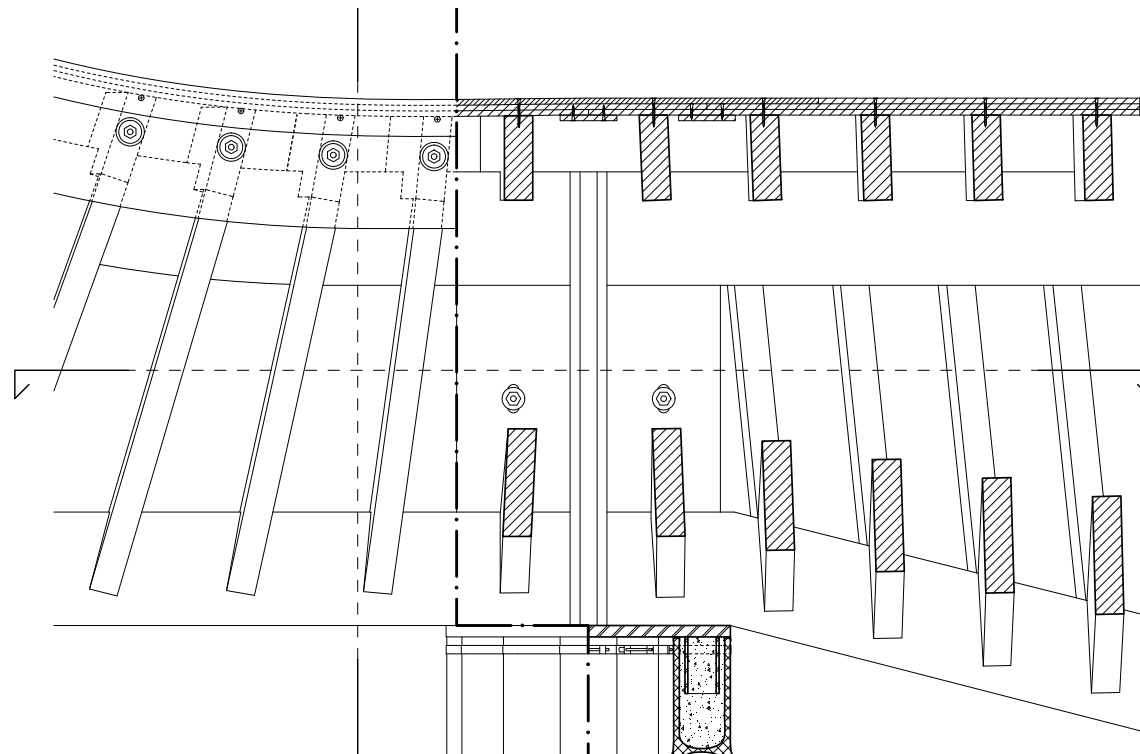
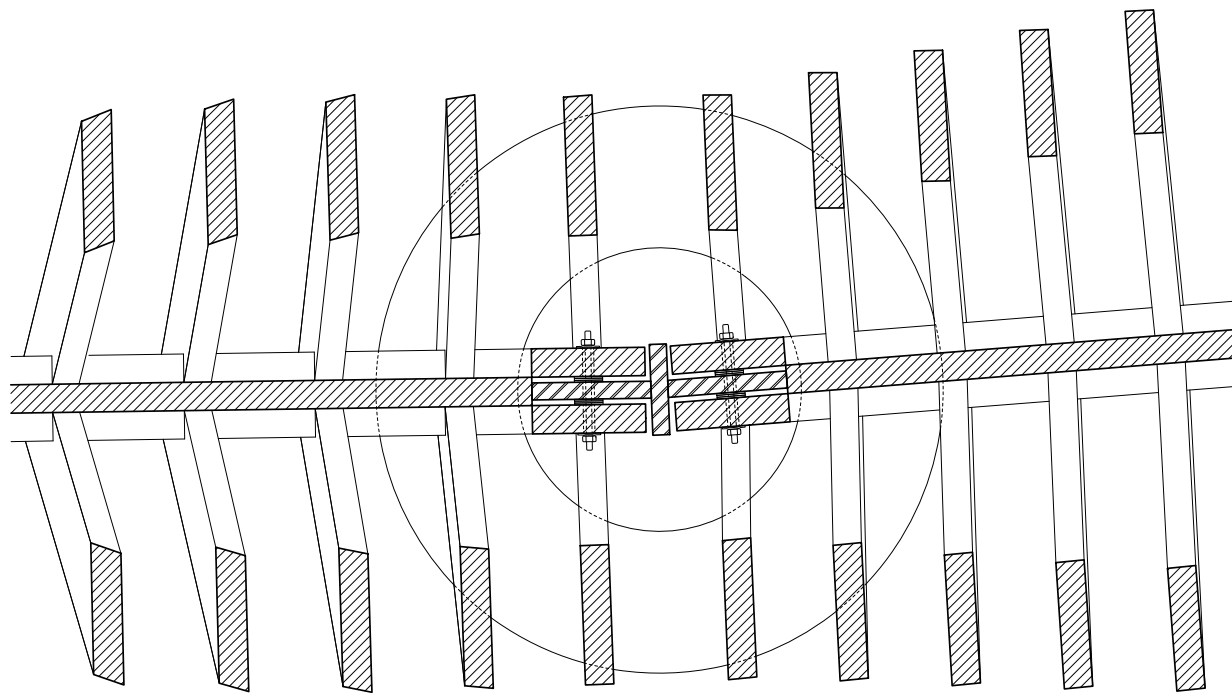


63.3%

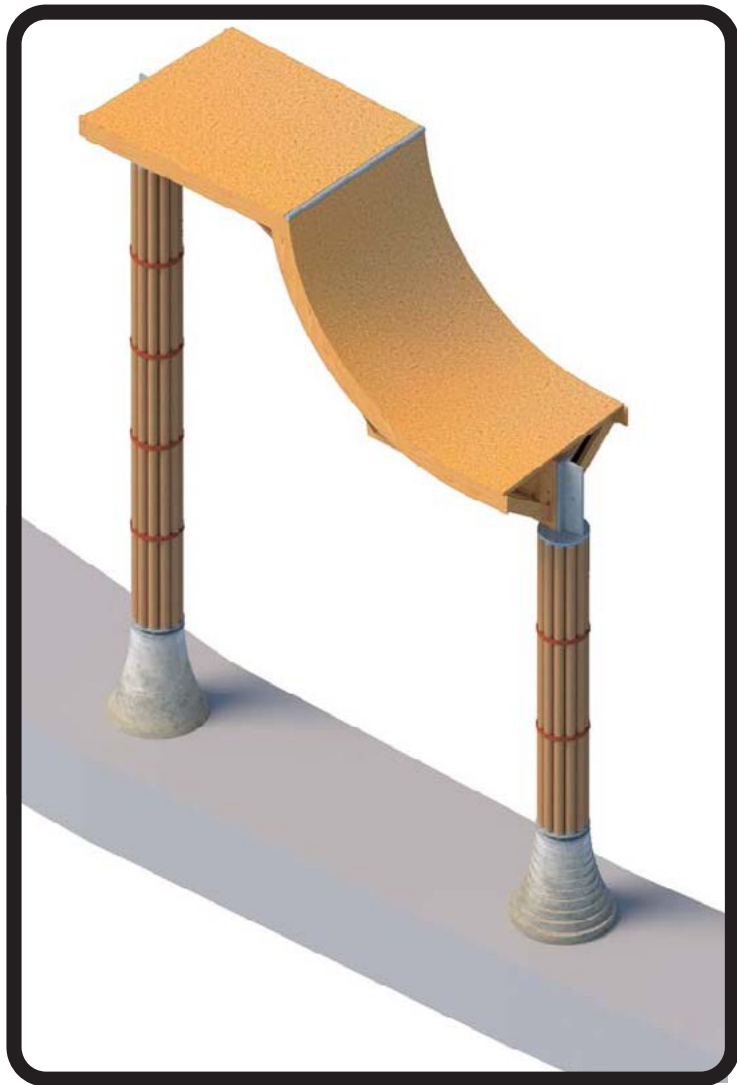
+
10%



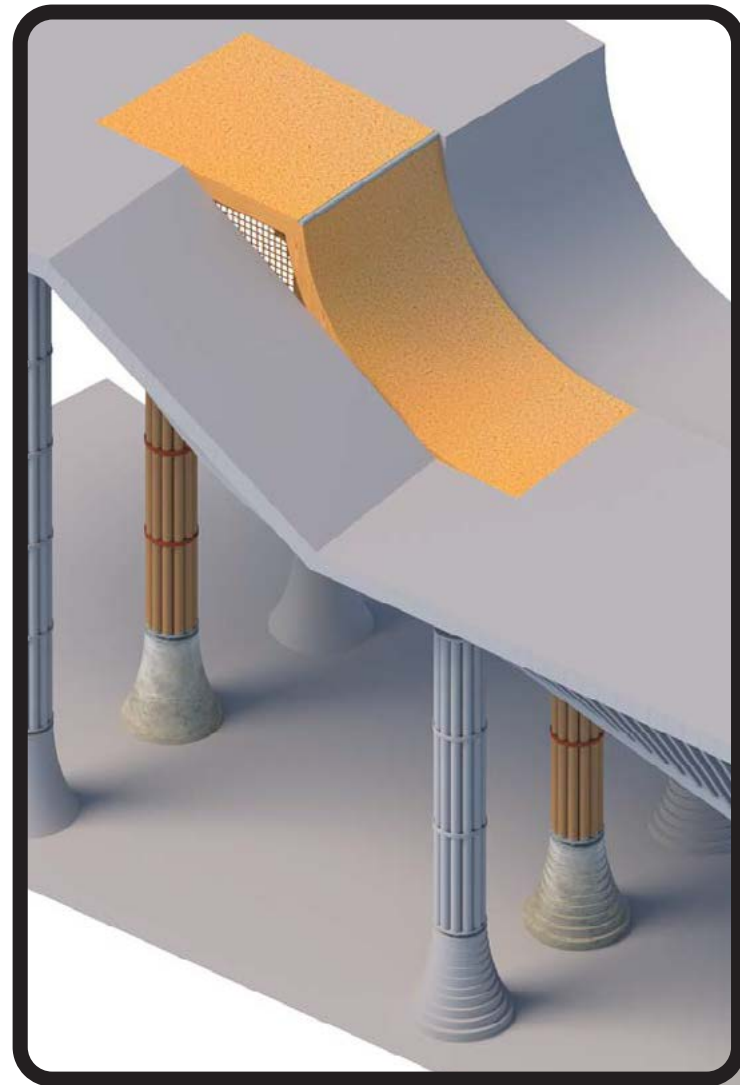
26.7%



DETAIL / Connection skate element on joint // Flexibility for maintainance

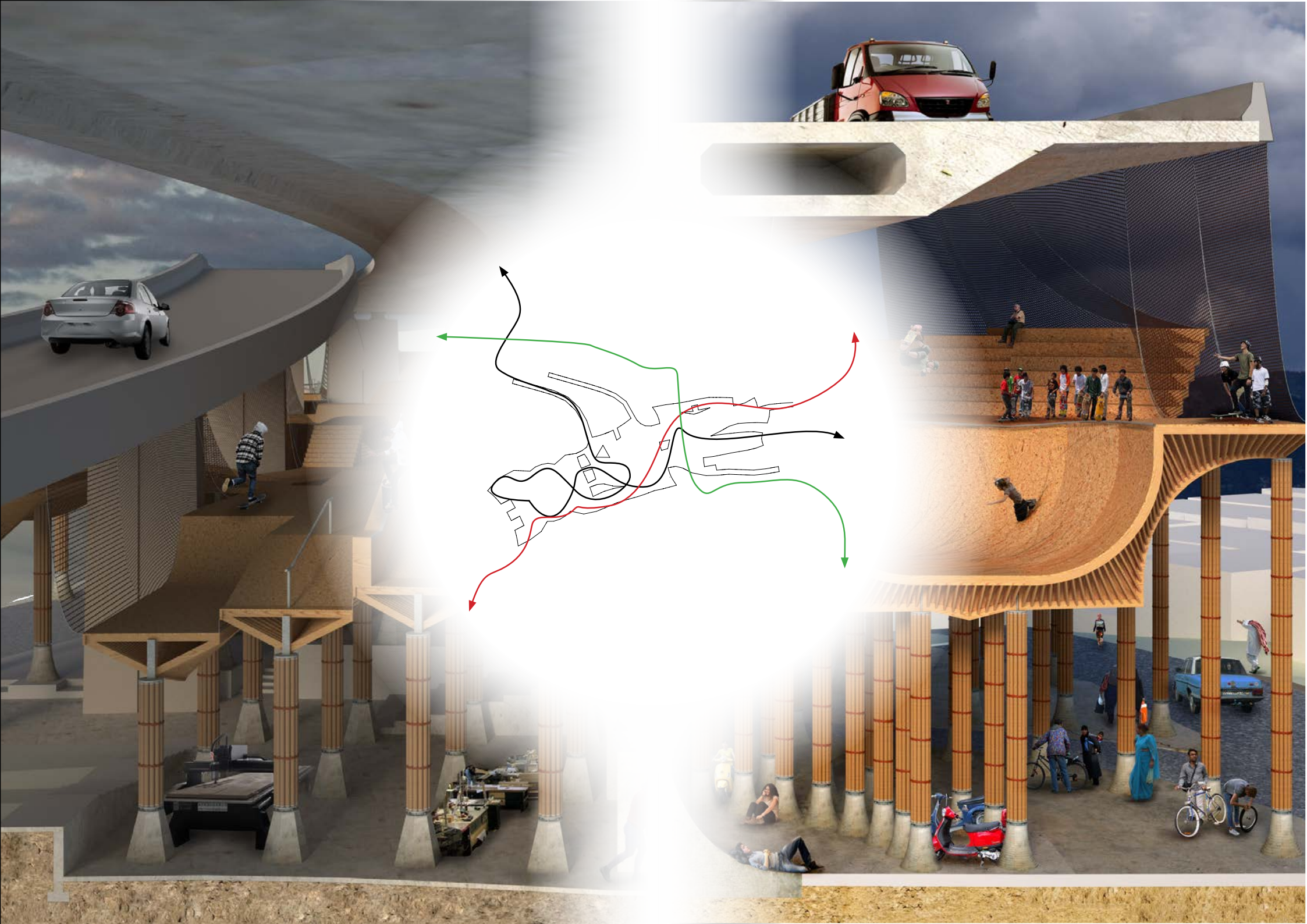


100%





DISASSEMBLY / Flexibility





Wednesday neighborhood kampung market



Bandung BOWL-A-RAMA International Skate Contest



everyday skateboarding scene



emergent bands showtime night