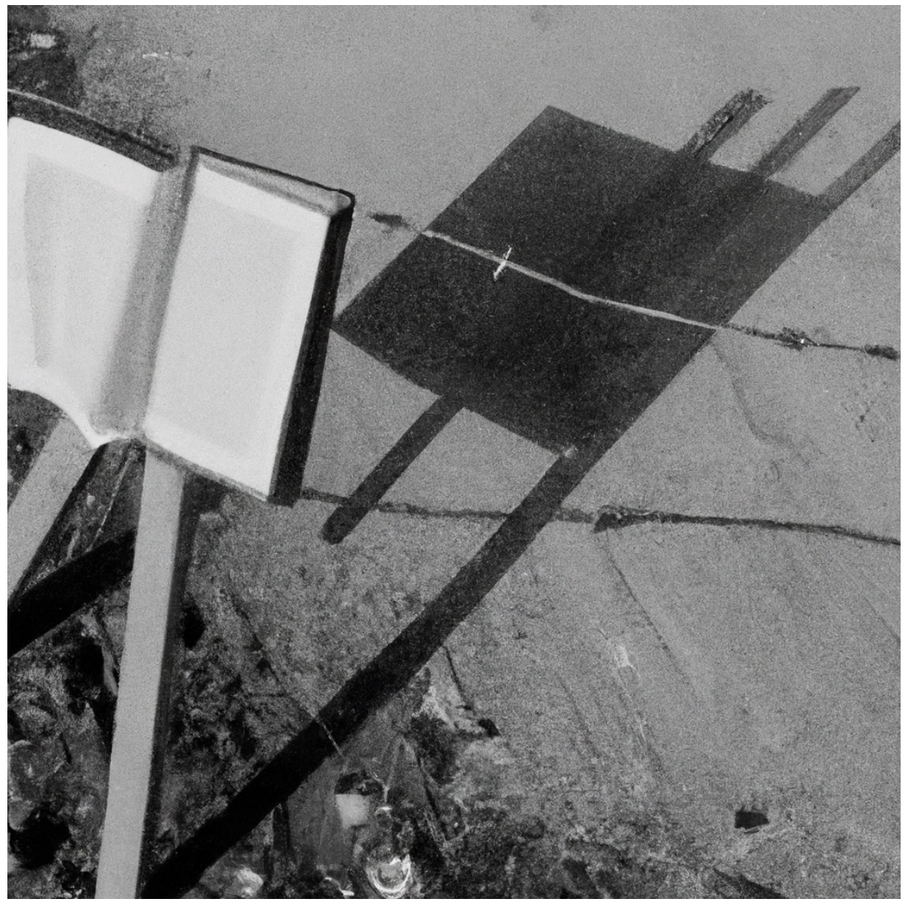


A Bathhouse, a library & a park in Sultangazi, Istanbul

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

Content.

01. Turkey, Istanbul & Sultangazi

02. The proposal - a bathhouse & a park

03. Bathhouse, something of Civic, well-being and cultural

04. Architecture of continuity and linearity

05. Architecture of contributory value - Climate, social & energy

06. Architecture and landscape of shared value & common ground

01. Turkey, Istanbul & Sultangazi

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537

2,229.00 km to 52.0116° N, 4.3571° E

N

1,755.61 km to 55.7558° N, 37.6173° E

BLACK SEA

Kirklareli

Edirne

Tekirdag

Istanbul

Kocaeli

Sakarya

SEA OF MARMARA

Yalova

Bilecik

Bursa

Canakkale

Balikesir

MARMARA BÖLGESİ

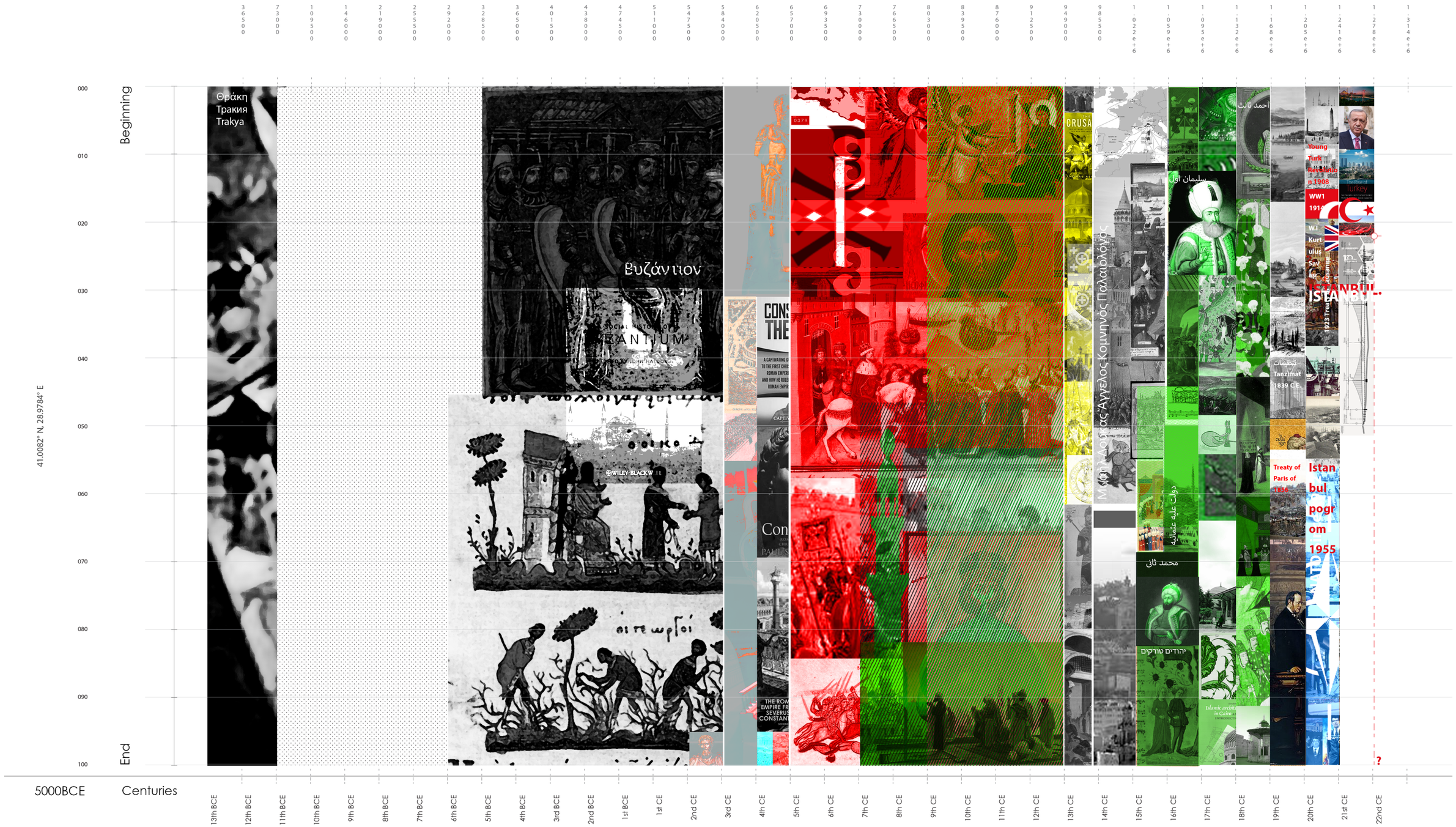
AEGEAN SEA

7,111.89 km to 22.1987° N, 113.5439° E

1057 kilometers to 33.5138° N, 36.2765° E

563.22 km to 37.9838° N, 23.7275° E

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



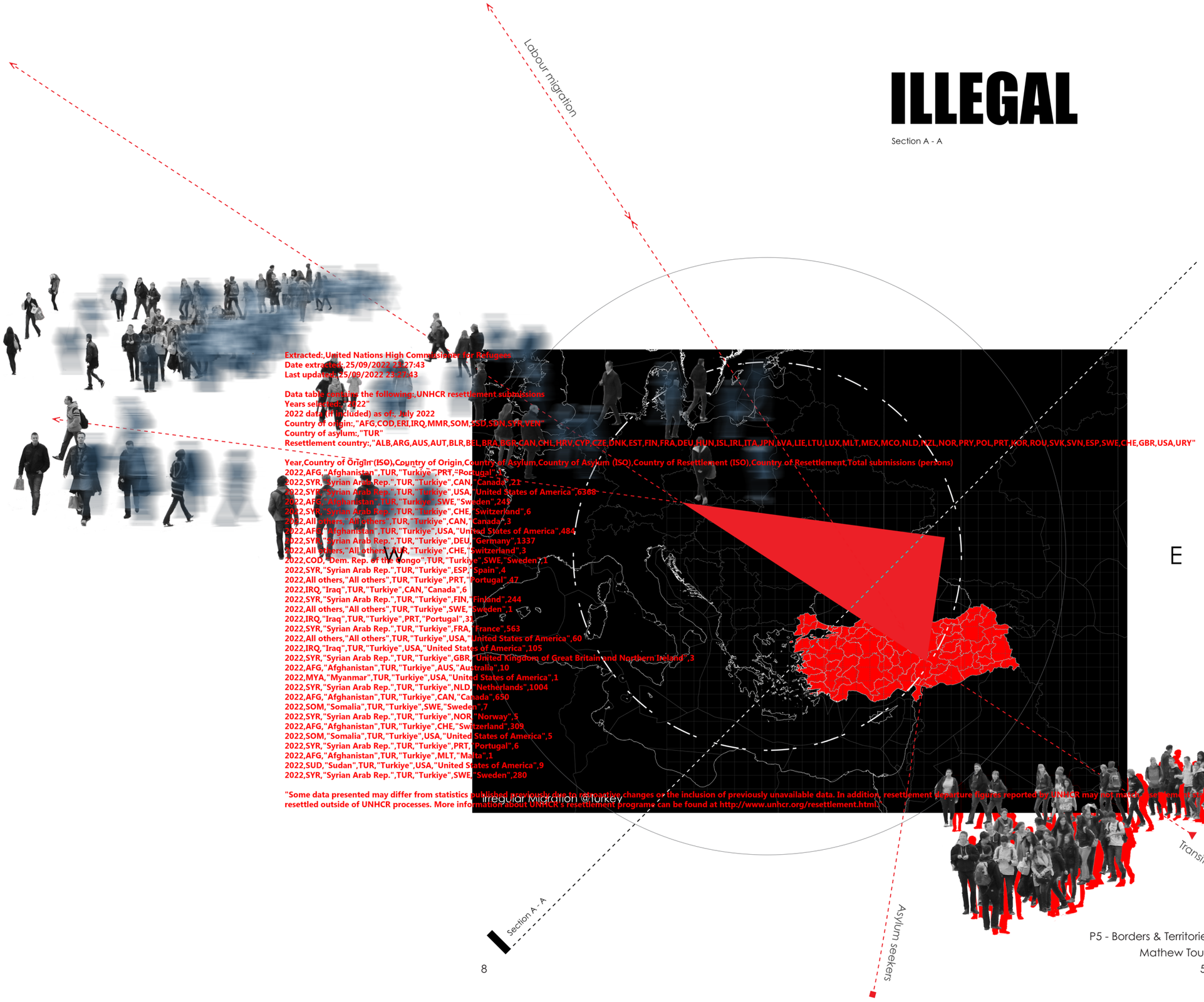
Borders & Territories 22/23
P5 Borders & Territories 22-23
Mathew Tou U Tong
5537762



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

ILLEGAL

Section A - A



Extracted:,United Nations High Commissioner for Refugees
Date extracted:,25/09/2022 23:27:43
Last updated:,25/09/2022 23:27:43

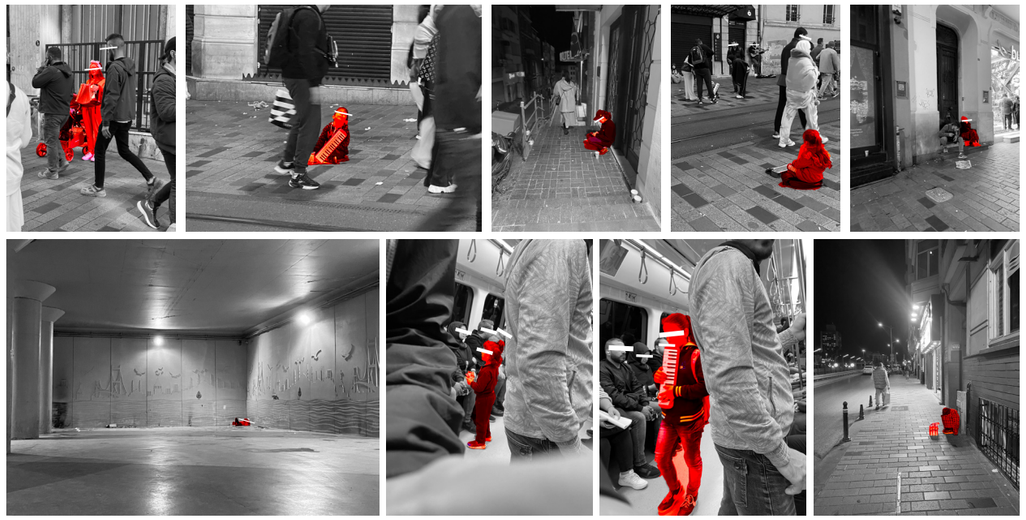
Data table contains the following:,UNHCR resettlement submissions
Years selected:,"2022"
2022 data (if included) as of:, July 2022
Country of origin:,"AFG,COD,ERI,IRQ,MMR,SOM,SSD,SDN,SYR,VEN"
Country of asylum:,"TUR"
Resettlement country:,"ALB,ARG,AUS,AUT,BLR,BEL,BRA,BGR,CAN,CHL,HRV,CYP,CZE,DNK,EST,FIN,FRA,DEU,HUN,ISL,IRL,ITA,JPN,LVA,LIE,LTU,LUX,MLT,MEX,MCO,NLD,NZL,NOR,PRY,POL,PRT,KOR,ROU,SVK,SVN,ESP,SWE,CHE,GBR,USA,URY"

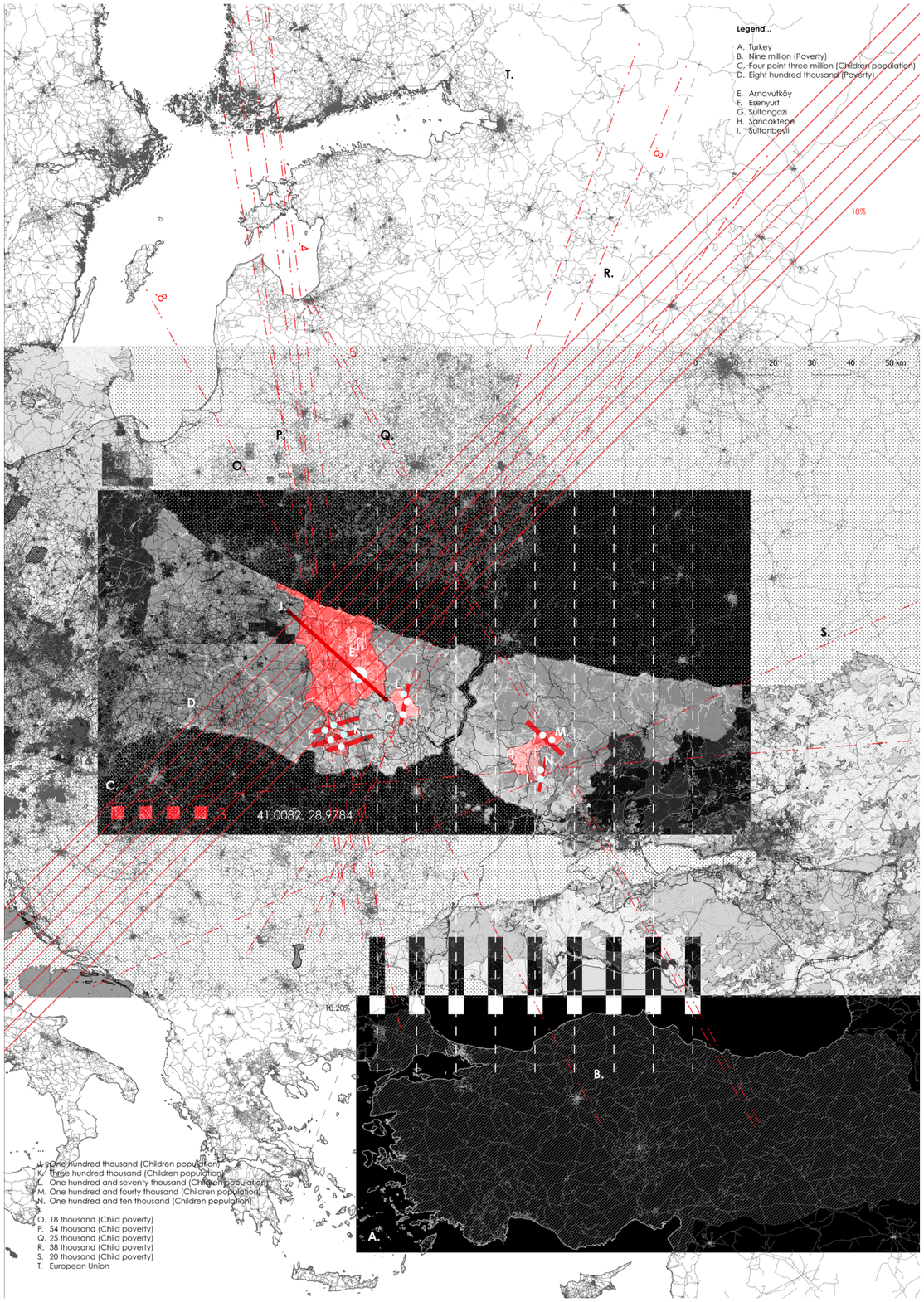
Year,Country of Origin (ISO),Country of Origin,Country of Asylum,Country of Asylum (ISO),Country of Resettlement (ISO),Country of Resettlement,Total submissions (persons)
2022,AFG,"Afghanistan",TUR,"Turkiye",PRT,"Portugal",1
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",CAN,"Canada",21
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",USA,"United States of America",6368
2022,AFG,"Afghanistan",TUR,"Turkiye",SWE,"Sweden",242
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",CHE,"Switzerland",6
2022,All others,"All others",TUR,"Turkiye",CAN,"Canada",3
2022,AFG,"Afghanistan",TUR,"Turkiye",USA,"United States of America",484
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",DEU,"Germany",1337
2022,All others,"All others",TUR,"Turkiye",CHE,"Switzerland",3
2022,COD,"Dem. Rep. of the Congo",TUR,"Turkiye",SWE,"Sweden",1
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",ESP,"Spain",4
2022,All others,"All others",TUR,"Turkiye",PRT,"Portugal",47
2022,IRQ,"Iraq",TUR,"Turkiye",CAN,"Canada",6
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",FIN,"Finland",244
2022,All others,"All others",TUR,"Turkiye",SWE,"Sweden",1
2022,IRQ,"Iraq",TUR,"Turkiye",PRT,"Portugal",31
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",FRA,"France",563
2022,All others,"All others",TUR,"Turkiye",USA,"United States of America",60
2022,IRQ,"Iraq",TUR,"Turkiye",USA,"United States of America",105
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",GBR,"United Kingdom of Great Britain and Northern Ireland",3
2022,AFG,"Afghanistan",TUR,"Turkiye",AUS,"Australia",10
2022,MYA,"Myanmar",TUR,"Turkiye",USA,"United States of America",1
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",NLD,"Netherlands",1004
2022,AFG,"Afghanistan",TUR,"Turkiye",CAN,"Canada",650
2022,SOM,"Somalia",TUR,"Turkiye",SWE,"Sweden",7
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",NOR,"Norway",5
2022,AFG,"Afghanistan",TUR,"Turkiye",CHE,"Switzerland",309
2022,SOM,"Somalia",TUR,"Turkiye",USA,"United States of America",5
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",PRT,"Portugal",6
2022,AFG,"Afghanistan",TUR,"Turkiye",MLT,"Malta",1
2022,SUD,"Sudan",TUR,"Turkiye",USA,"United States of America",9
2022,SYR,"Syrian Arab Rep.",TUR,"Turkiye",SWE,"Sweden",280

"Some data presented may differ from statistics published previously due to retroactive changes or the inclusion of previously unavailable data. In addition, resettlement departure figures reported by UNHCR may not match resettlement arrivals as published by Sta
resettled outside of UNHCR processes. More information about UNHCR's resettlement programe can be found at http://www.unhcr.org/resettlement.html."

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762


Beyoğlu Kültür Yolu
kulturyolufestivalleri.com





Map 01. Neighborhood of Youth

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

0 1 2 3 4 km

Sultangazi

P5 - Borders & Territories 22-23
Mathew Tou Ji Tong
0563762

0 1 2 3 4 km

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

Sultangazi

Population	**543,380**
Area	**37.00 km2**
Population Density	**14,686/km2**
Male	**277,601**
Females	**265,779**
0 - 14 years	**140,345**
15 - 64 years	**378,924**
65+ years	**24,111**

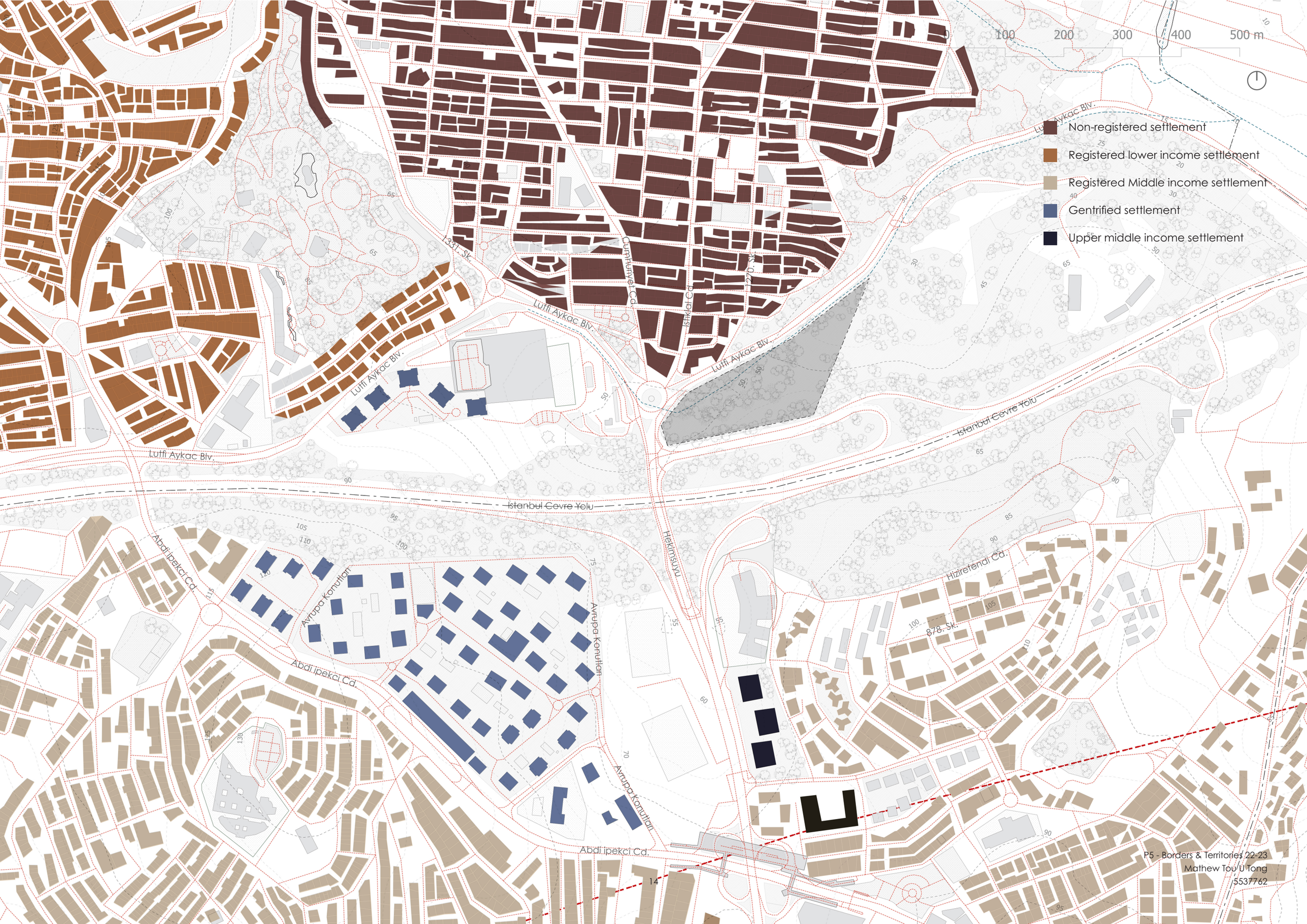
A. Yayla
B. Habibler
C. Eski Habipler
D. Cebeci
E. Malkocoglu
F. Ismetpasa
G. Sultanciftligi
H. Ugur Nuncu
I. 50. Yil
J. Esentepe
K. Gazi
L. Zubeyde Hanm
M. Cumhuriyet
N. Yunus Emre
O. 75. Yil

PST Borders & Territories 22-23
Mathew Tou U Tong
5537762

0 100 200 300 400 500 m

Luffi Aykac Blv.
1331. Sk.
Cumhuriyet Cd.
Istiklal Cd.
1270. Sk.
Luffi Aykac Blv.
Luffi Aykac Blv.
Luffi Aykac Blv.
Luffi Aykac Blv.
Istanbul Cevre Yolu
Istanbul Cevre Yolu
Hekimsuyu
Hizirefendi Cd.
878. Sk.
Abdi Ipekci Cd.
Avrupa Konutlari
Avrupa Konutlari
Abdi Ipekci Cd.
Avrupa Konutlari
Abdi Ipekci Cd.

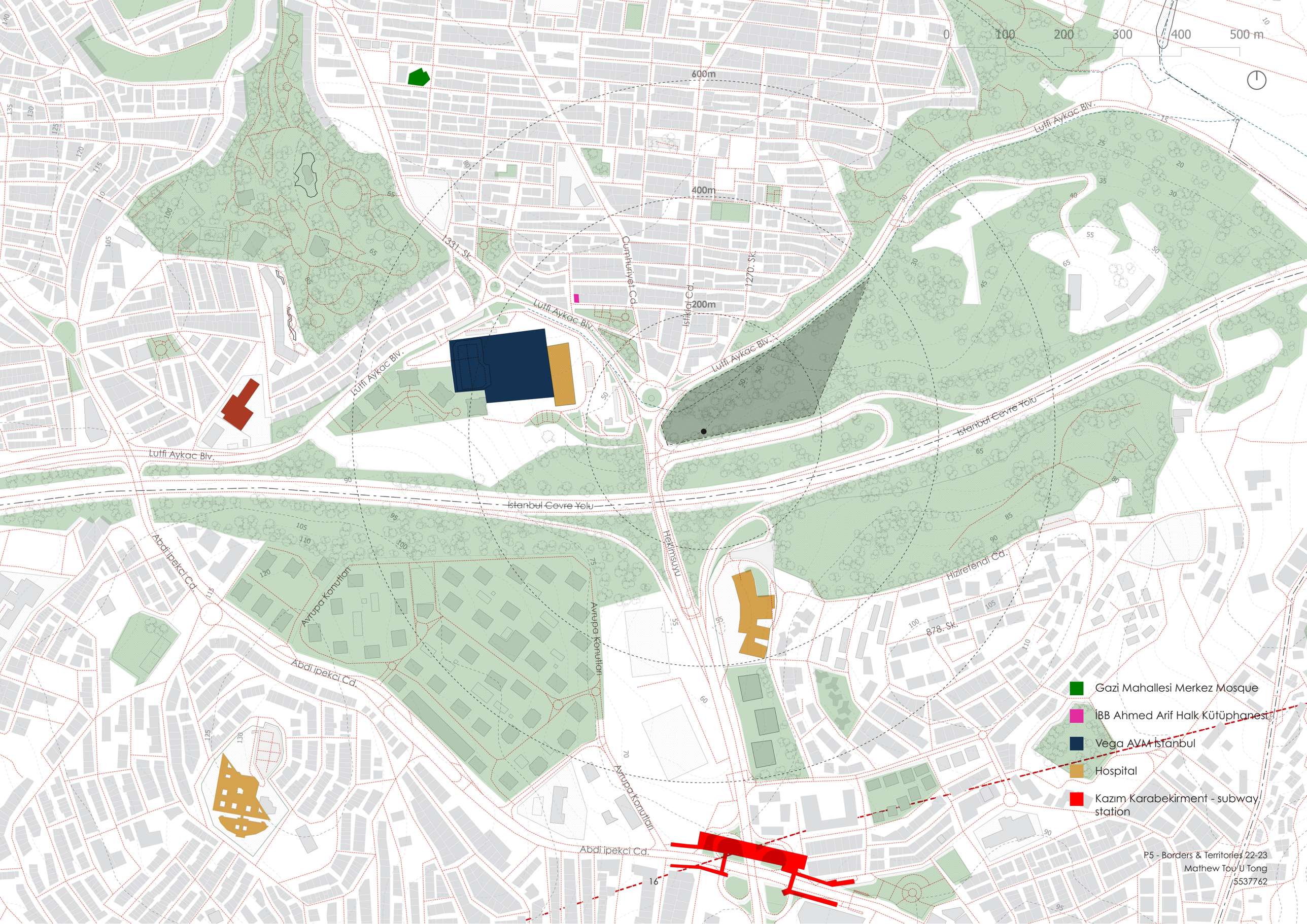
P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

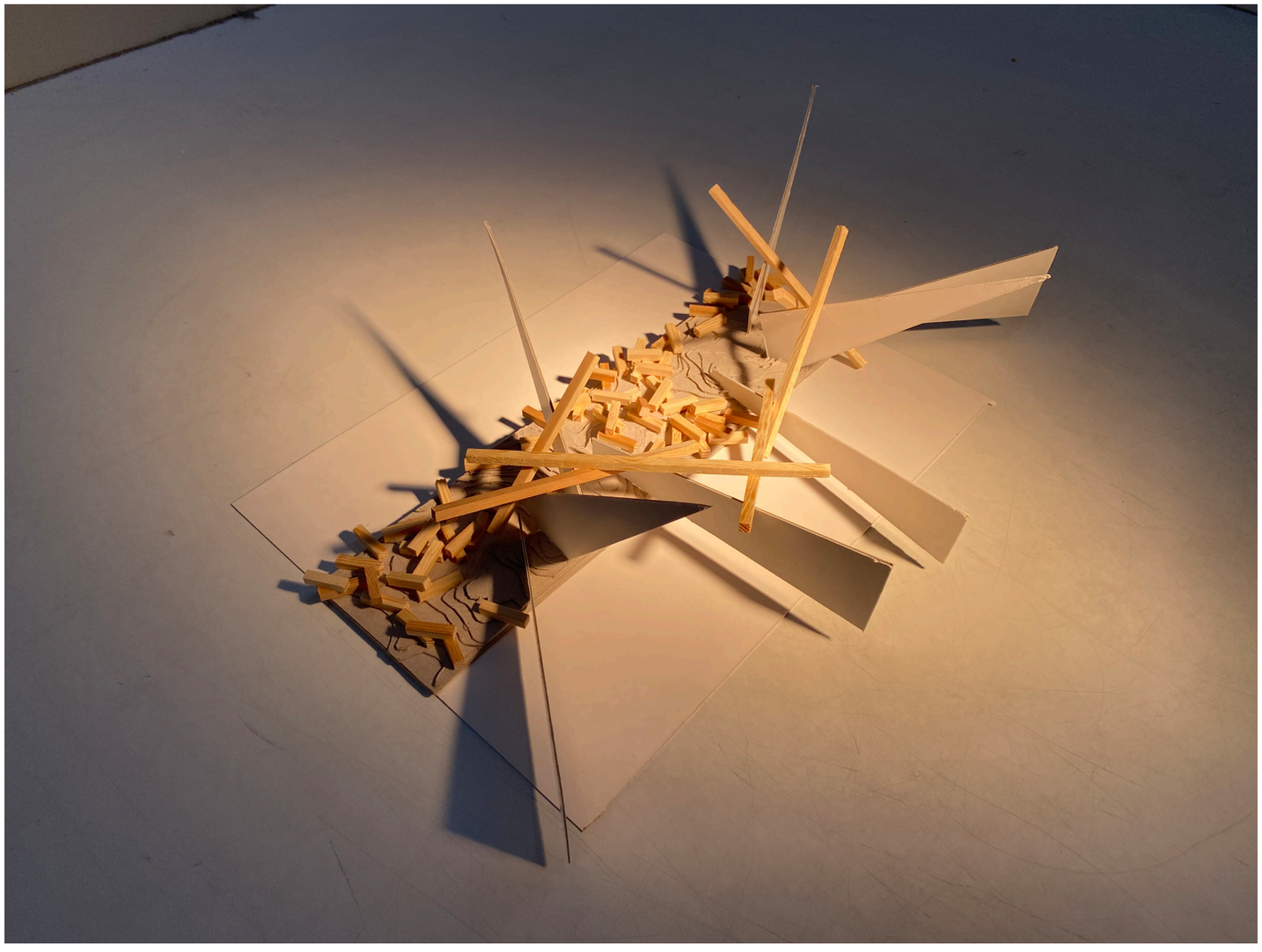


P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

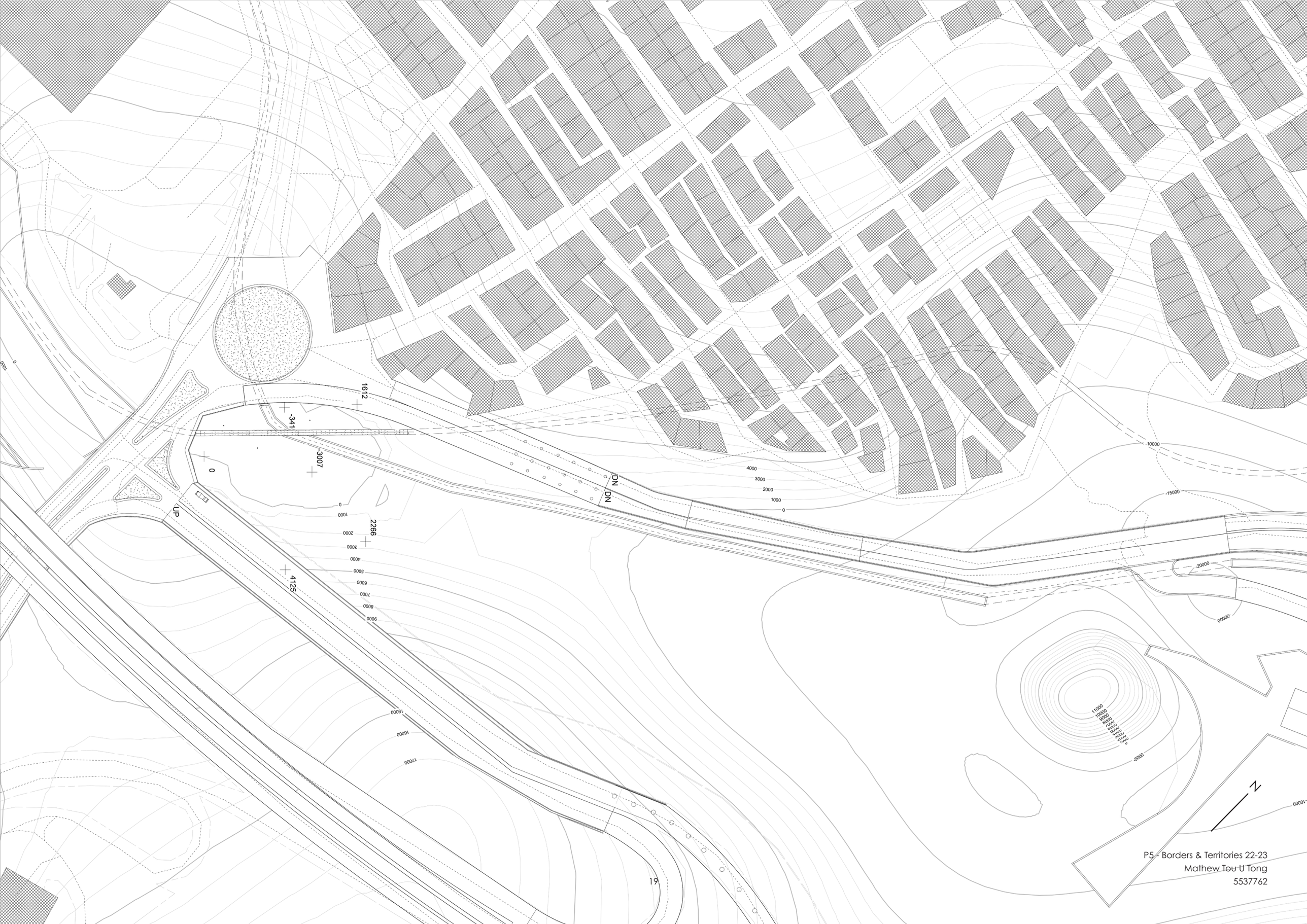


Site_

The Representation of Scale (Iteration_01)

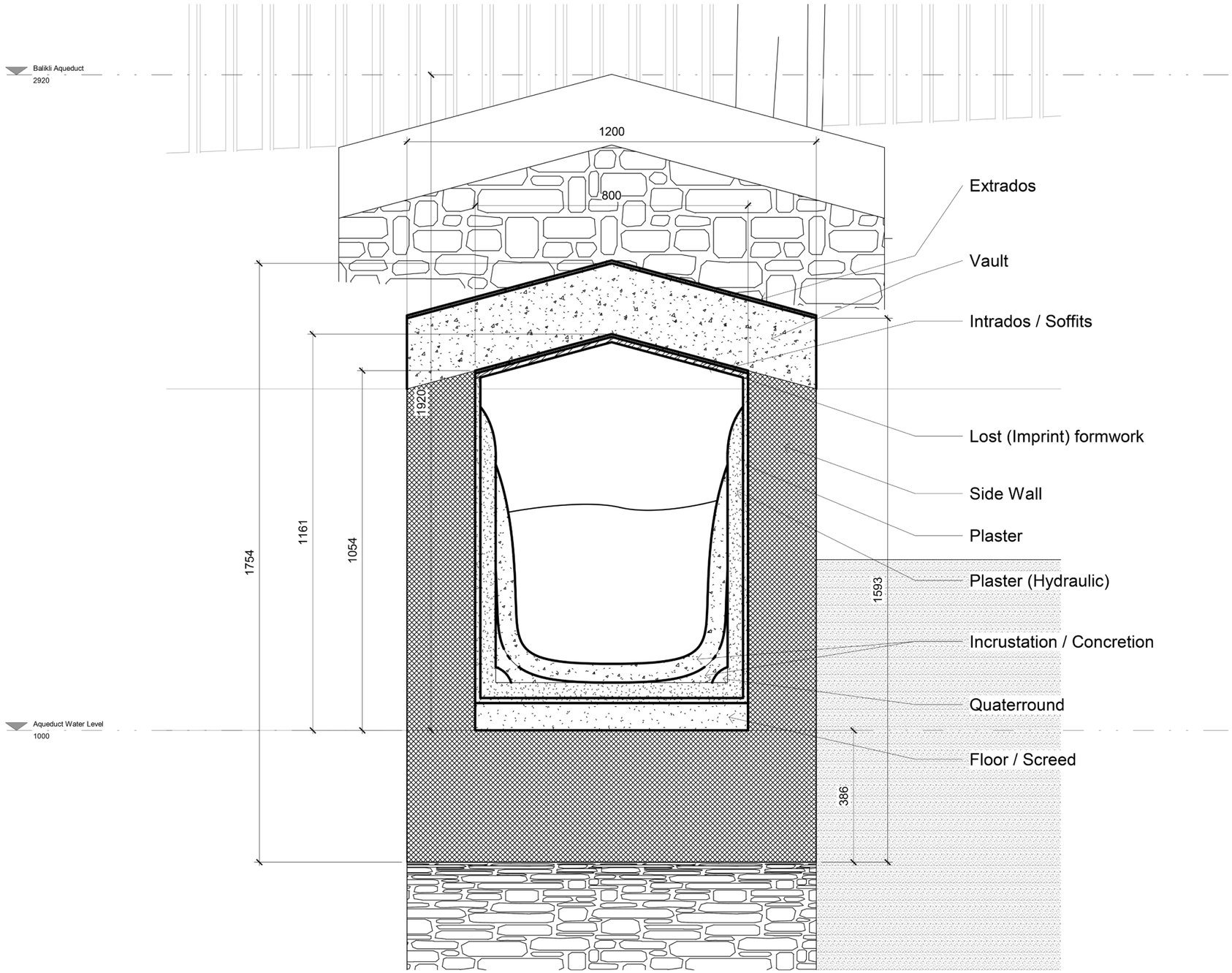
Keywords

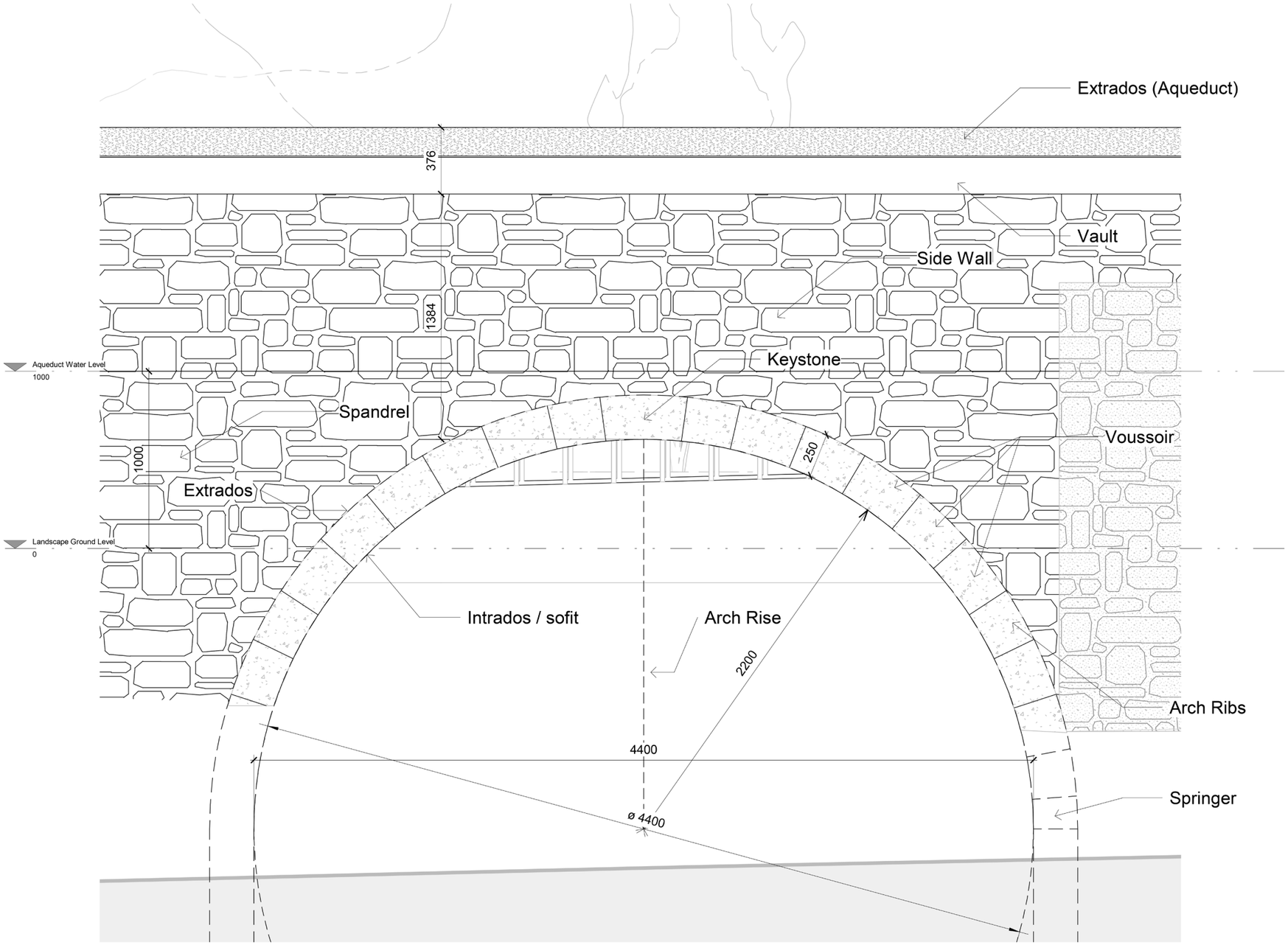
- Representative
- Nature vs Man-Made
- Informal vs formal
- Arrival vs Departure
- Downscale machine
- Disorientation

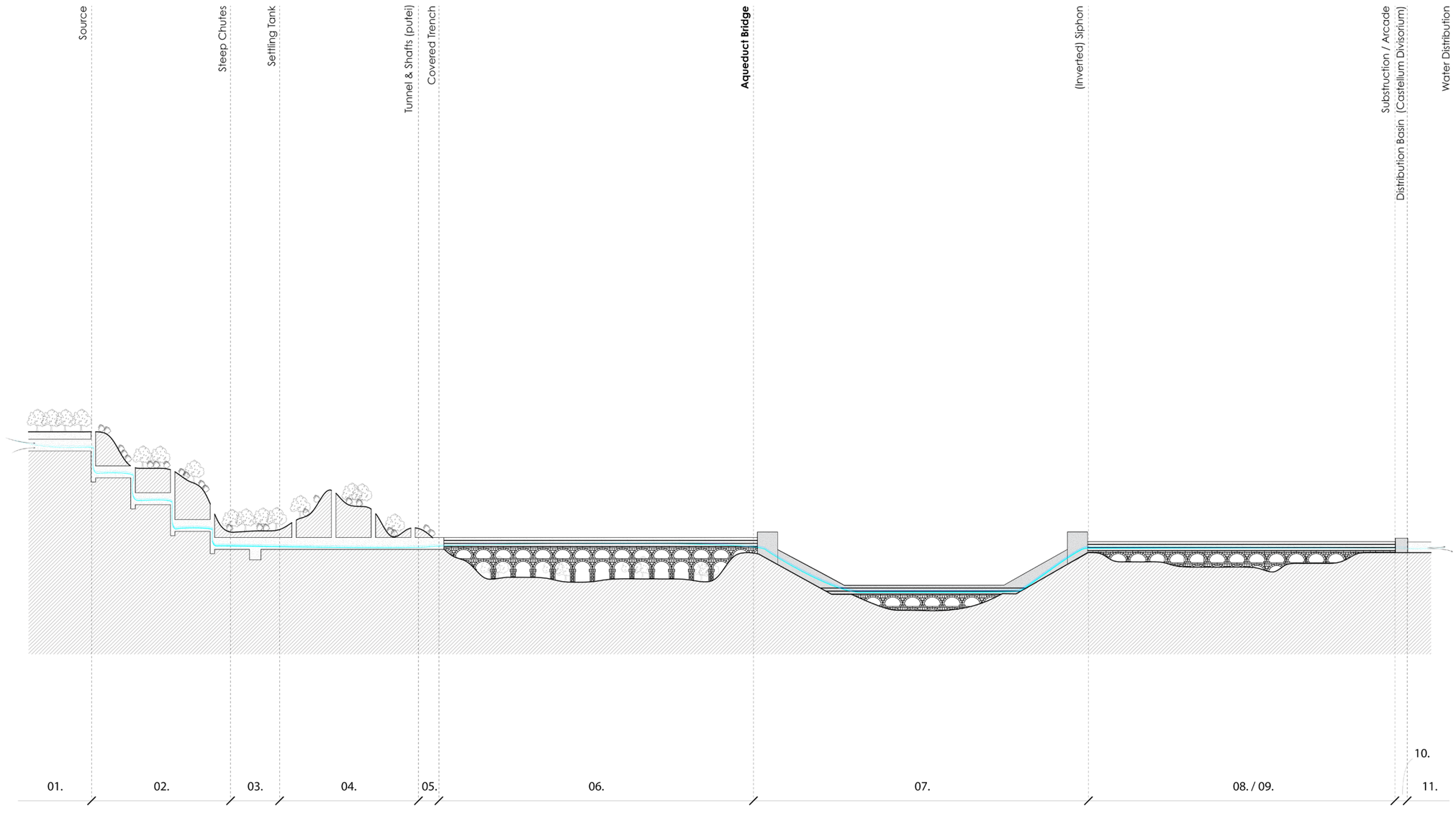


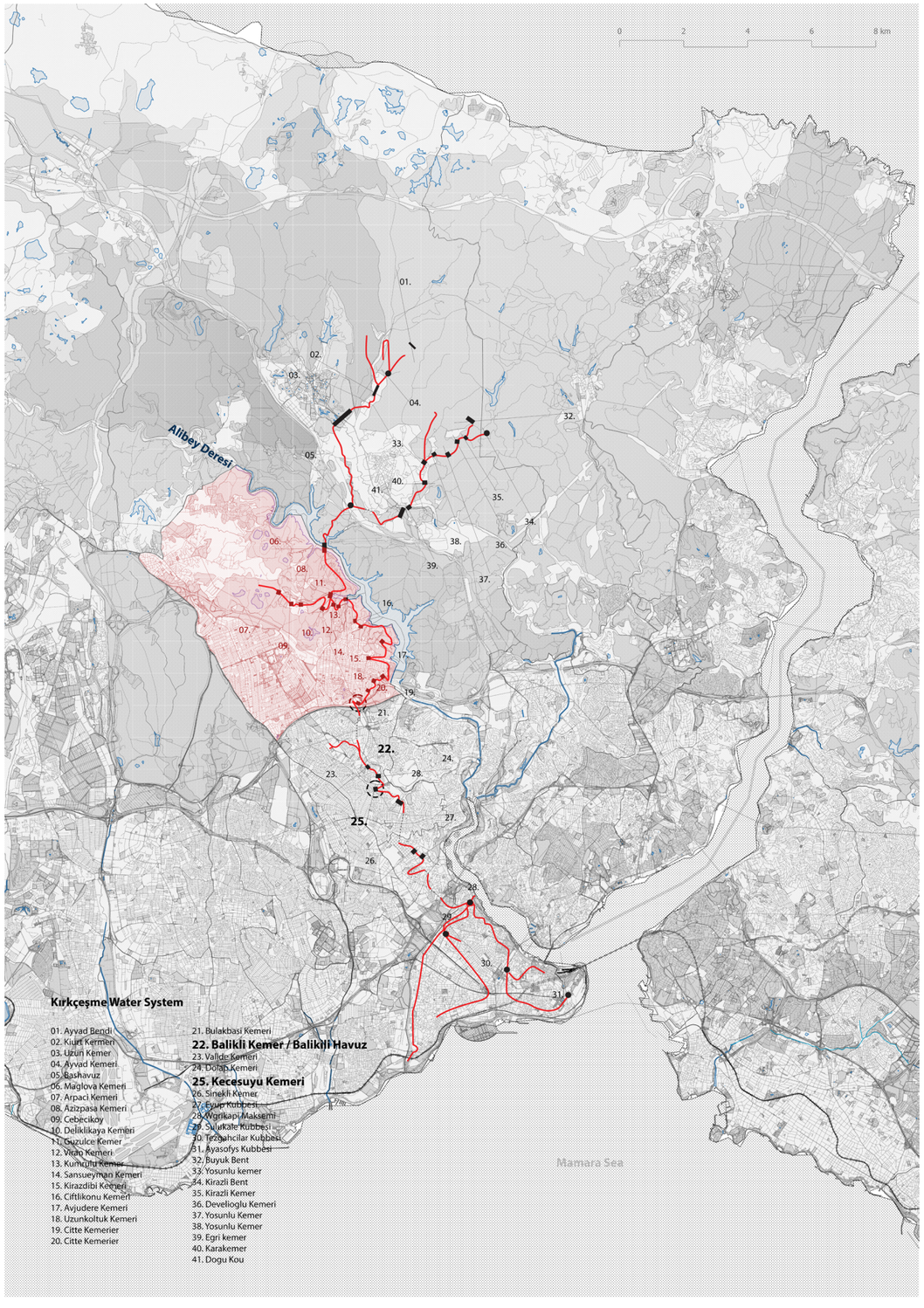
P5 – Borders & Territories 22-23
Mathew Tou U Tong
5537762



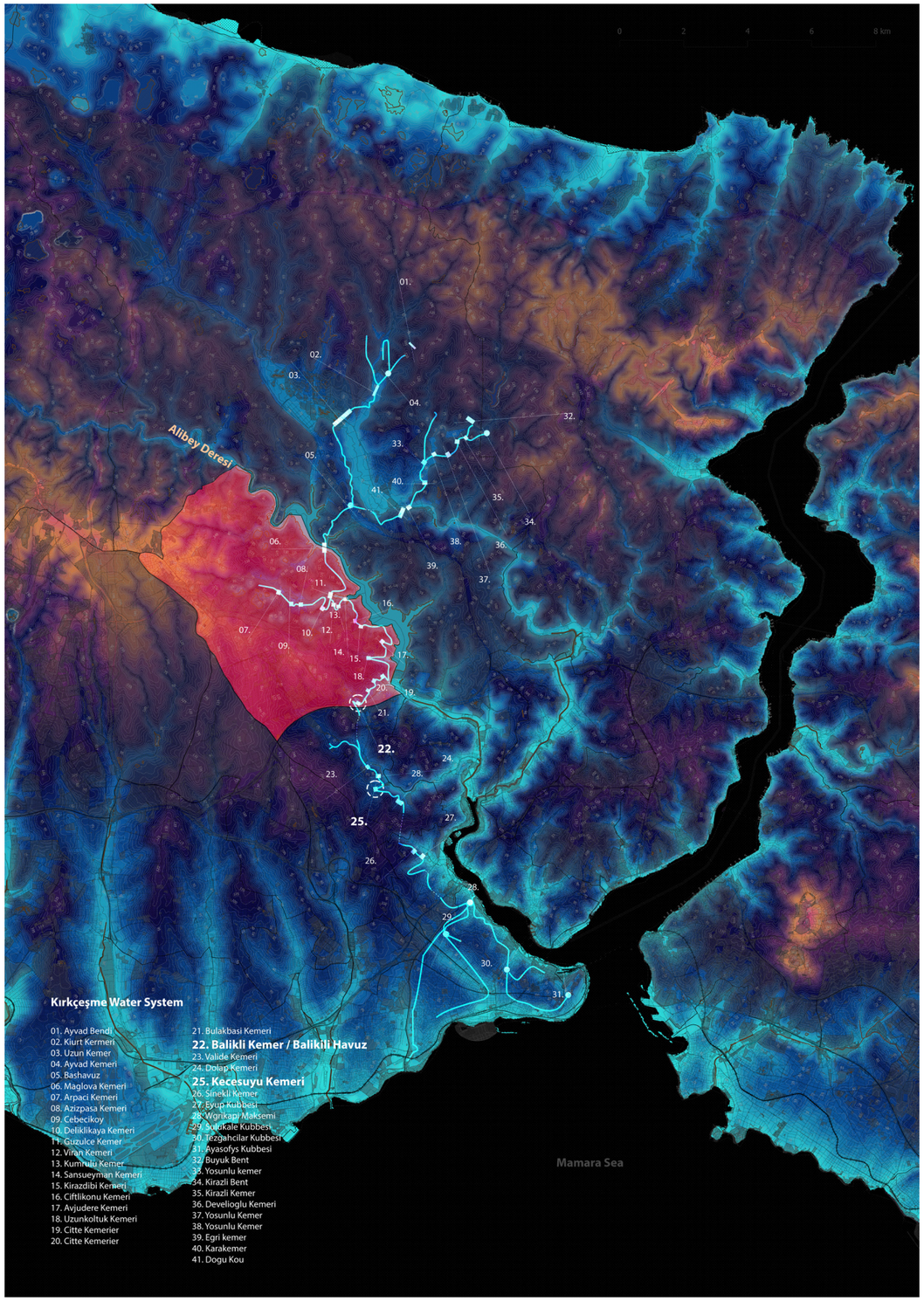

Balikli Aqueduct
2920
1200
800
Extrados
Vault
Intrados / Soffits
1920
Lost (Imprint) formwork
Side Wall
Plaster
Plaster (Hydraulic)
1593
Incrustation / Concretion
Quaterround
Floor / Screed
386
1754
1161
1054
Aqueduct Water Level
1000


Extrados (Aqueduct)
376
Vault
Side Wall
1384
Keystone
Aqueduct Water Level
1000
Spandrel
Voussoir
250
1000
Extrados
Landscape Ground Level
0
Intrados / sofit
Arch Rise
2200
Arch Ribs
4400
Springer
ø 4400


Source
Steep Chutes
Settling Tank
Tunnel & Shaffs (puteï)
Covered Trench
Aqueduct Bridge
(Inverted) Siphon
Substruction / Arcade
Distribution Basin (Castellum Divisorium)
Water Distribution
01.
02.
03.
04.
05.
06.
07.
08. / 09.
10.
11.



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

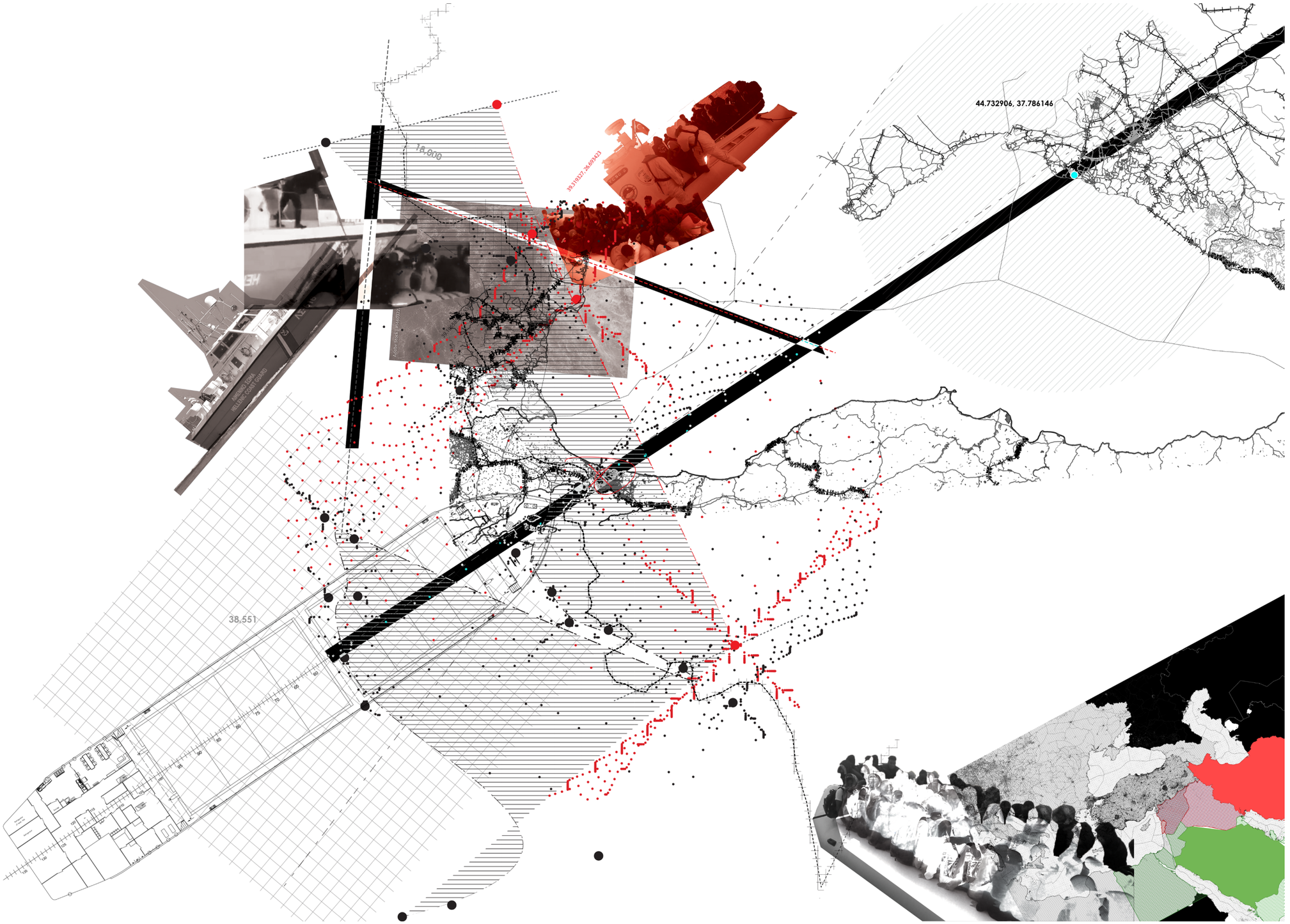


P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762









Map 02. Prosperity & Chaos

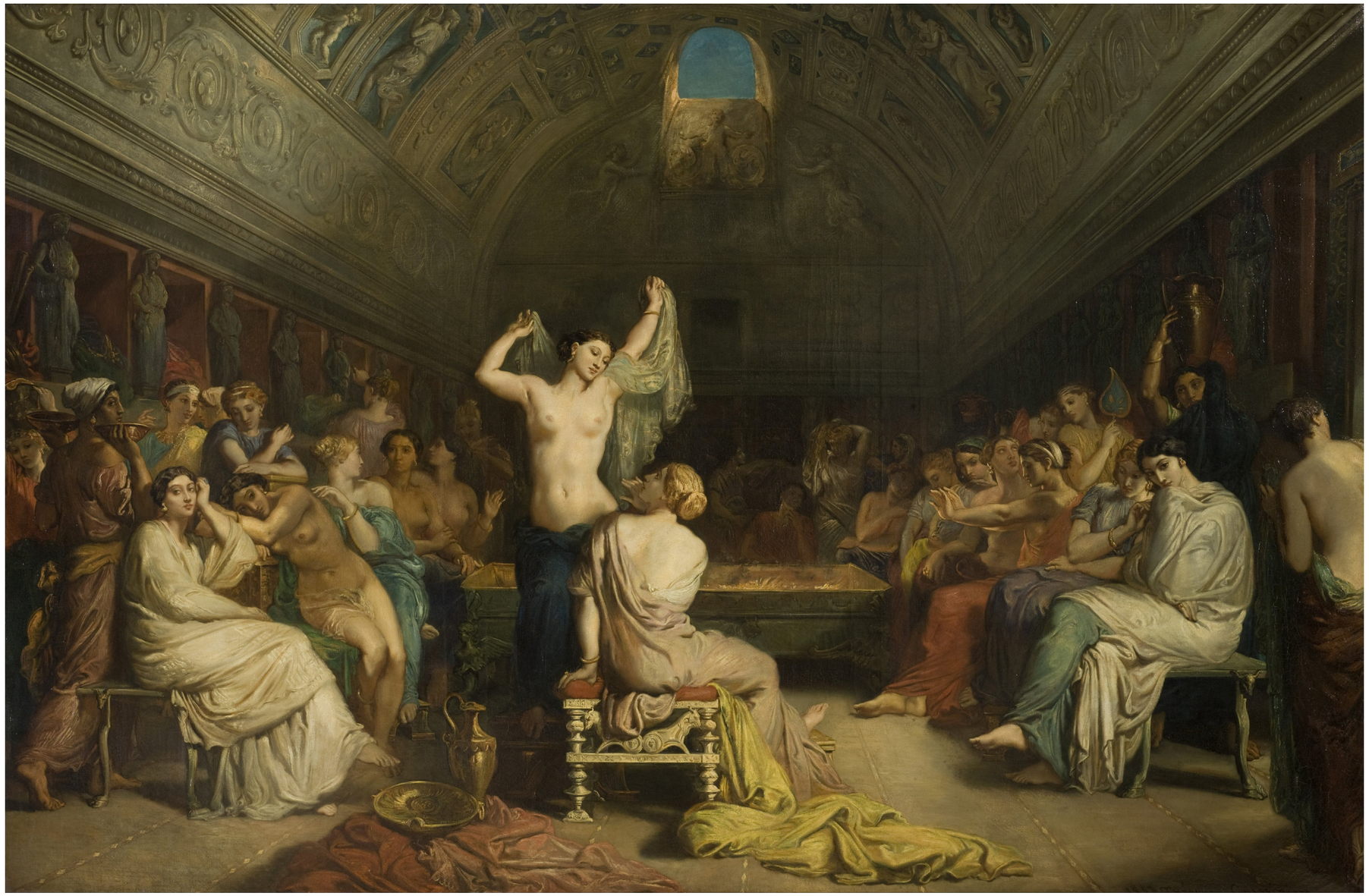
P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

02. The proposal - a bathhouse & a park

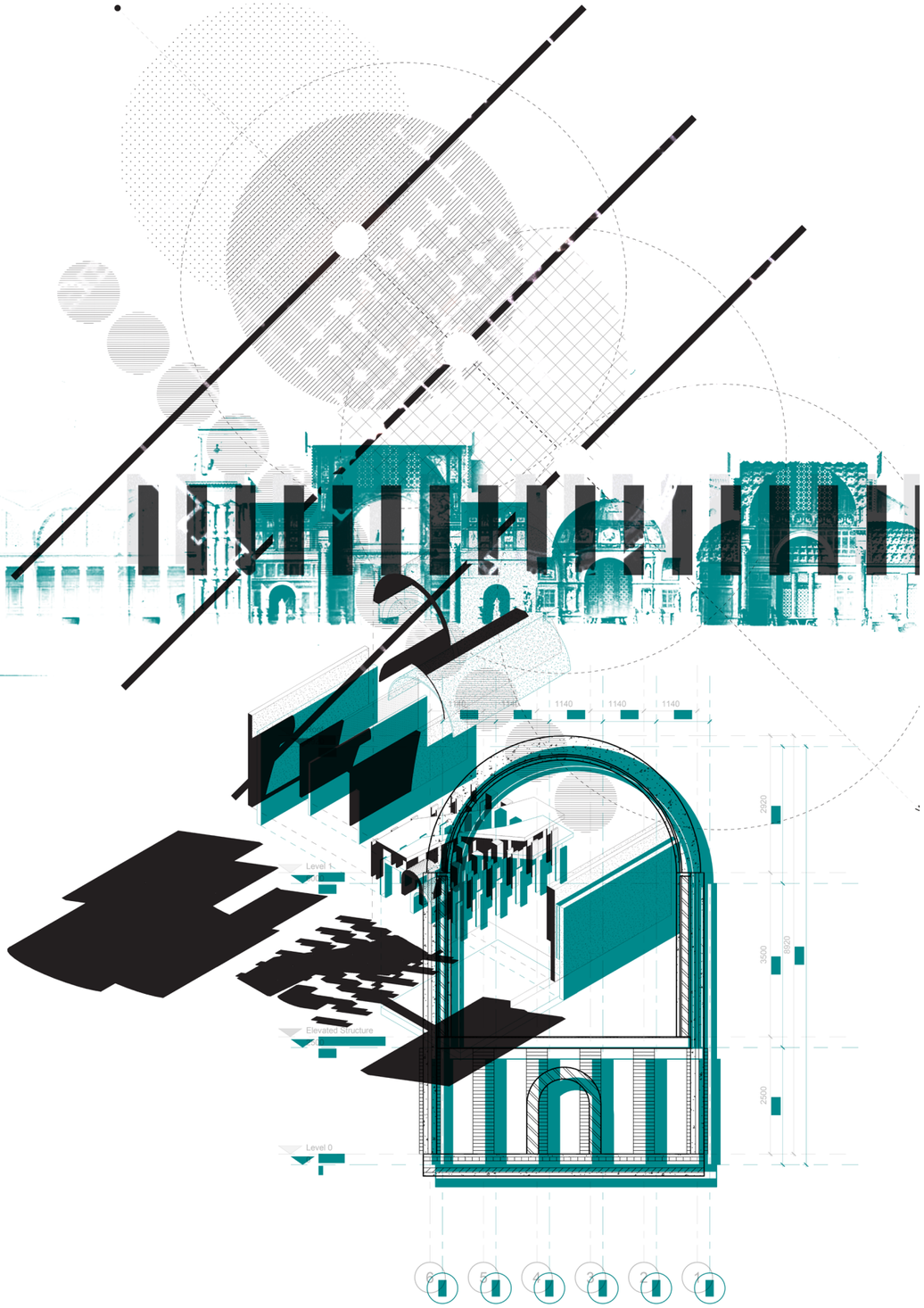


/imagine prompt

An oil painting by Raphael; showing an Apodyterium in an ancient roman bathhouse, where children enjoy playing games and people are having conversations and discussions about their life. Depicting a scenery of social harmony with people from different classes and different age groups interacting with each other.

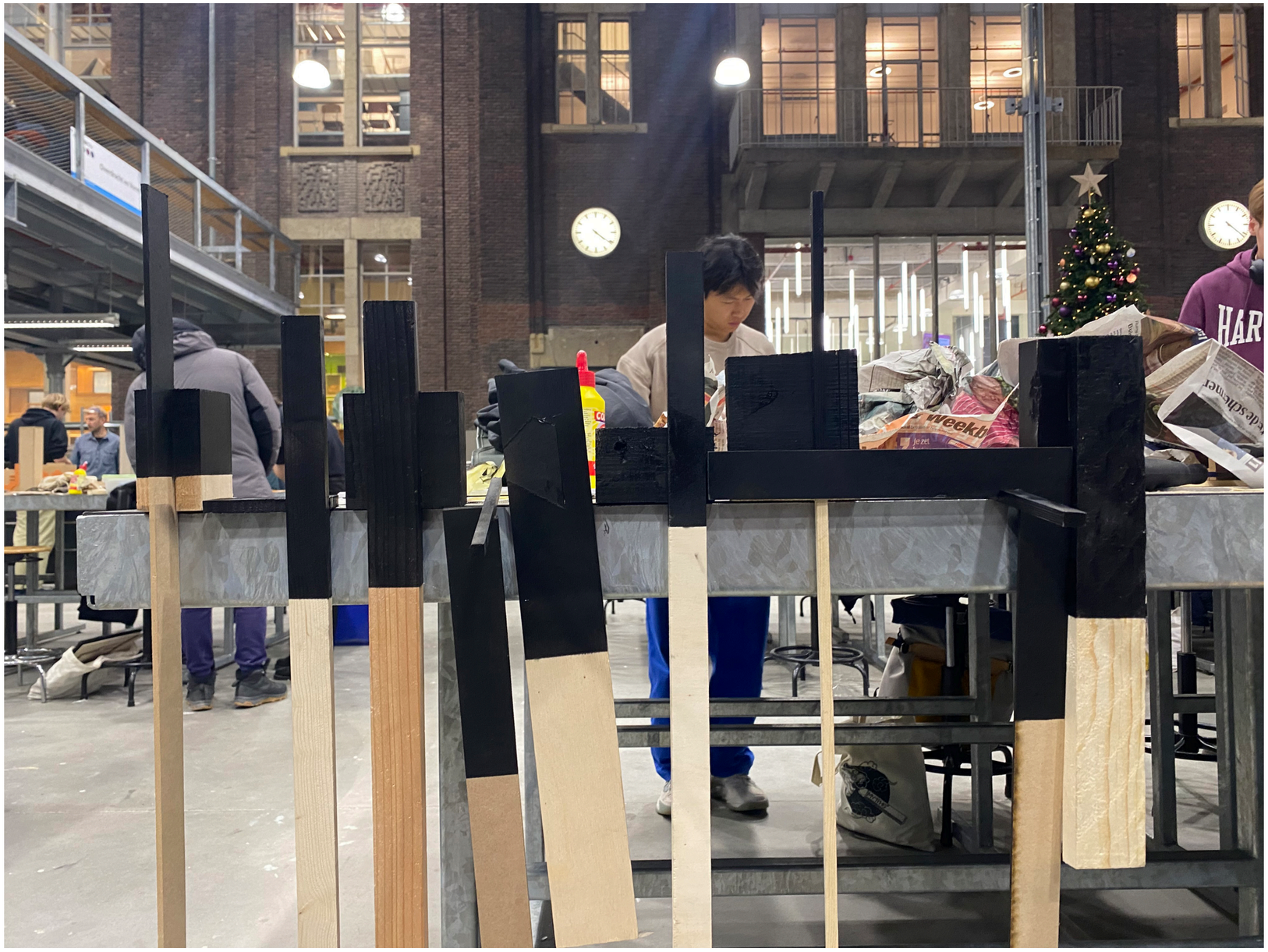


Title:	Tepidarium
Date Created:	1853
Provenance:	Bought in 1853
Physical Dimensions:	w2580 x h1710 cm
Painter:	Théodore Chassériau
Original Title:	Le Tepidarium, “salle où les femmes de Pompéi venaient se reposer et se sécher en sortant du bain”
Credit Line:	© Musée d’Orsay, dist. RMN / Patrice Schmidt
Alternate Title:	Tepidarium, “the room where the women of Pompeii came to rest and dry themselves after bathing”
Type:	Oil on canvas
Rights:	© Musée d’Orsay, dist. RMN / Patrice Schmidt
External Link:	https://www.musee-orsay.fr/en/collections



Map 03. The Bathhouse

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



Keywords

- Focus
- Priority
- Manipulation
- Scale
- Angle
- Balance
- Variant
- Composition

Deterritorialization - Heterogeneity

01. Sample group - Istanbul from above
02. Land use of the formal vs the informal
03. Scaleless object Big vs Small

Act of finding the Big & Small

Form_ (Re-visit)

The “equalizer” - life and death of urbanization



Form_ (Re-visit)

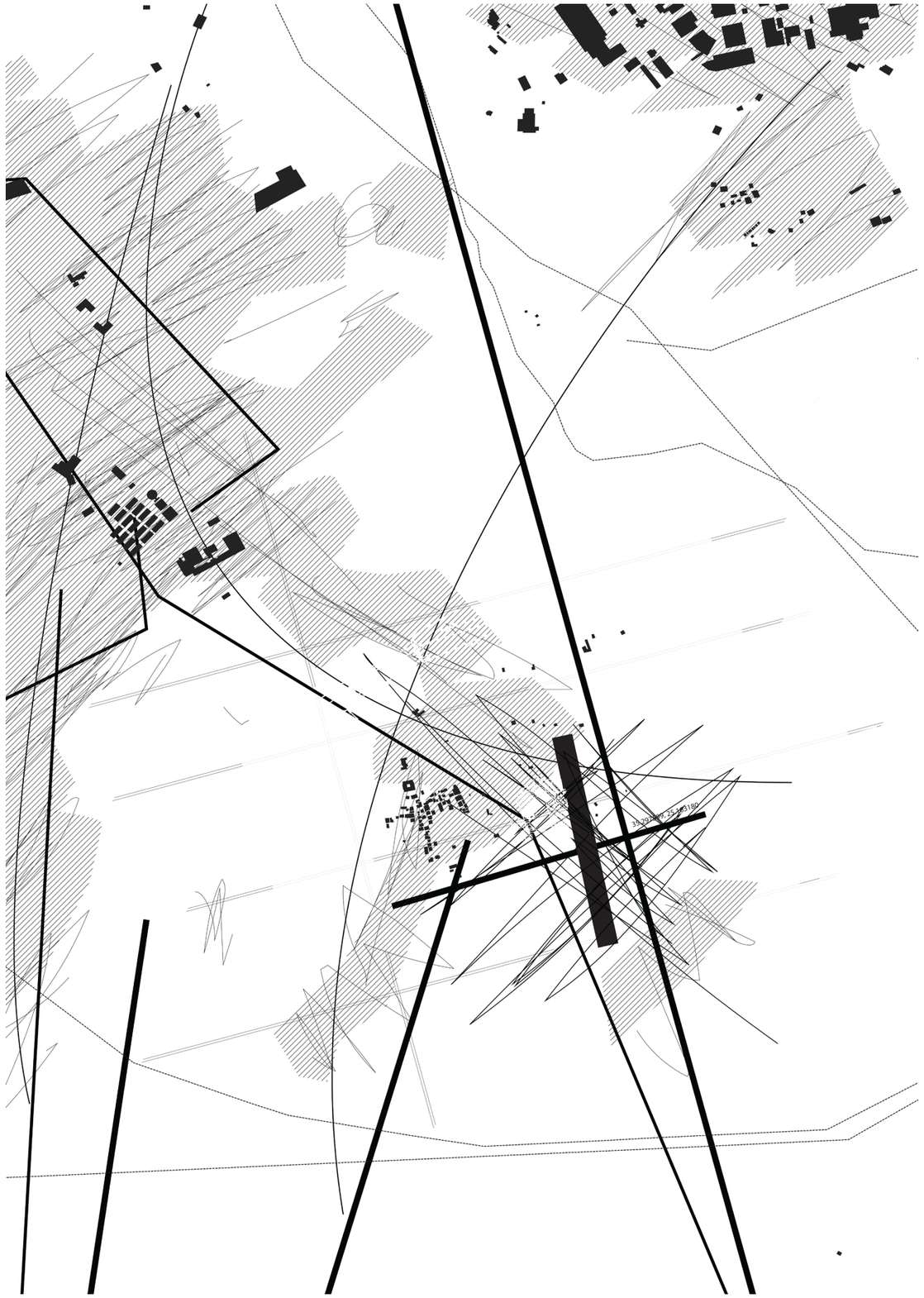
The “equalizer” - life and death of urbanization



Map 04. The Contiguous

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

03. Bathhouse, something of Civic, well-being and cultural



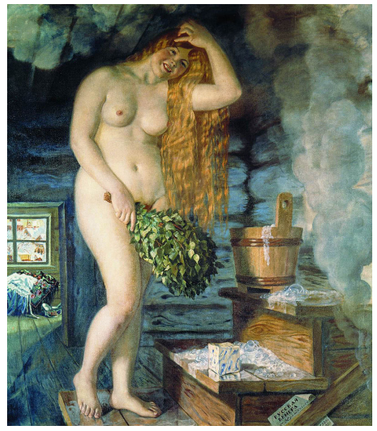
Map 05. Bathhouse history & its origin_Palace of Knossos







A.



B.



C.



D.

A.
A Turkish Bath (Aubry de La Motraye's "Travels throughout Europe, Asia and into Part of Africa...," London, 1724, vol. I, pl. 10)

Artist: William Hogarth
Author: Aubry de La Motraye

B.
Russian Venus

Artist: Boris Kustodiev

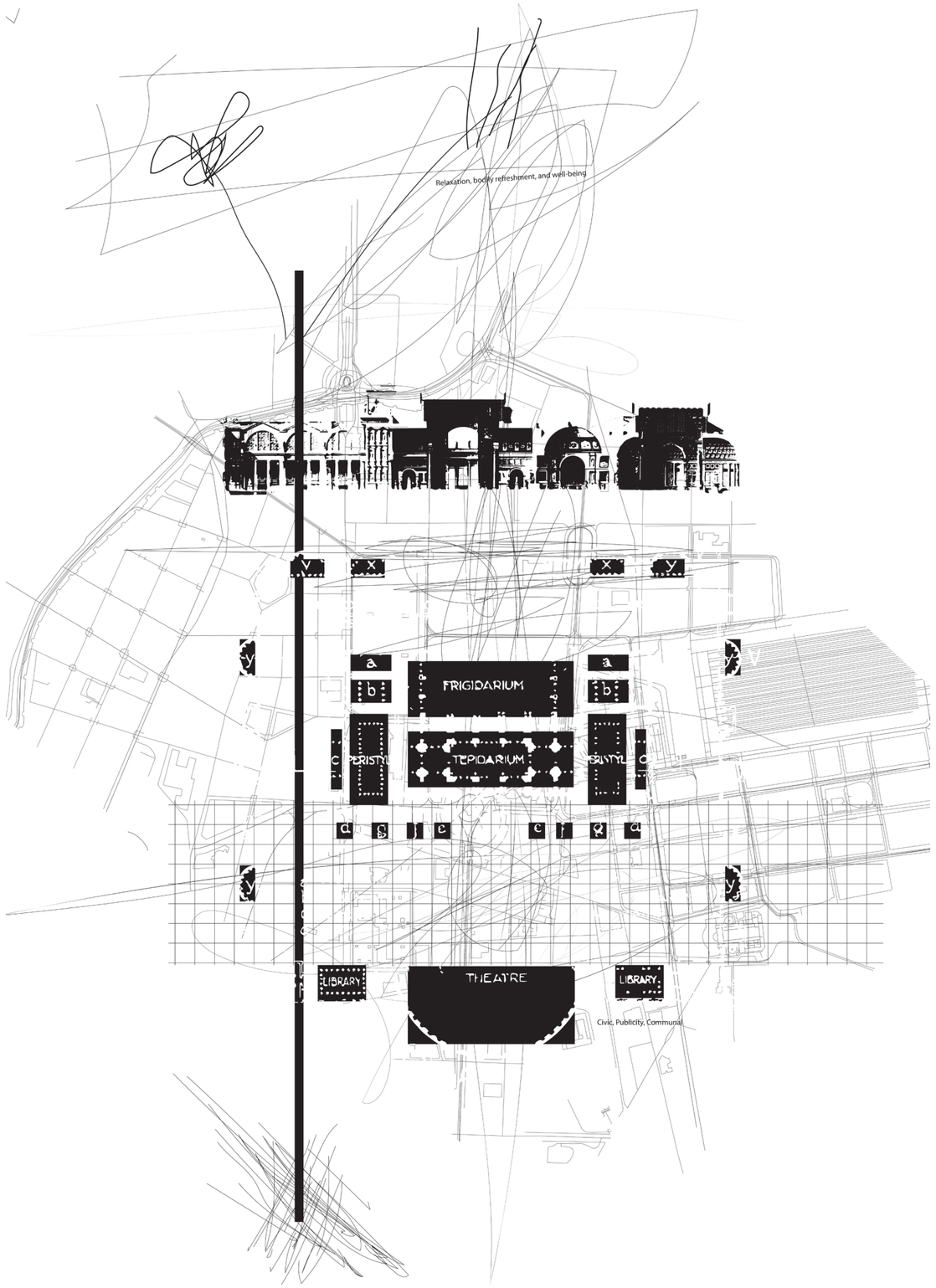
C.
"Interior of a Public Bath" Utagawa Yoshiiku, Edo period (1615 - 1868), Japan, Triptych of polychrome woodblock prints; ink and color on paper

Artist: Utagawa Yoshiiku

D.
"The Roman Bath Young Women Bathing"

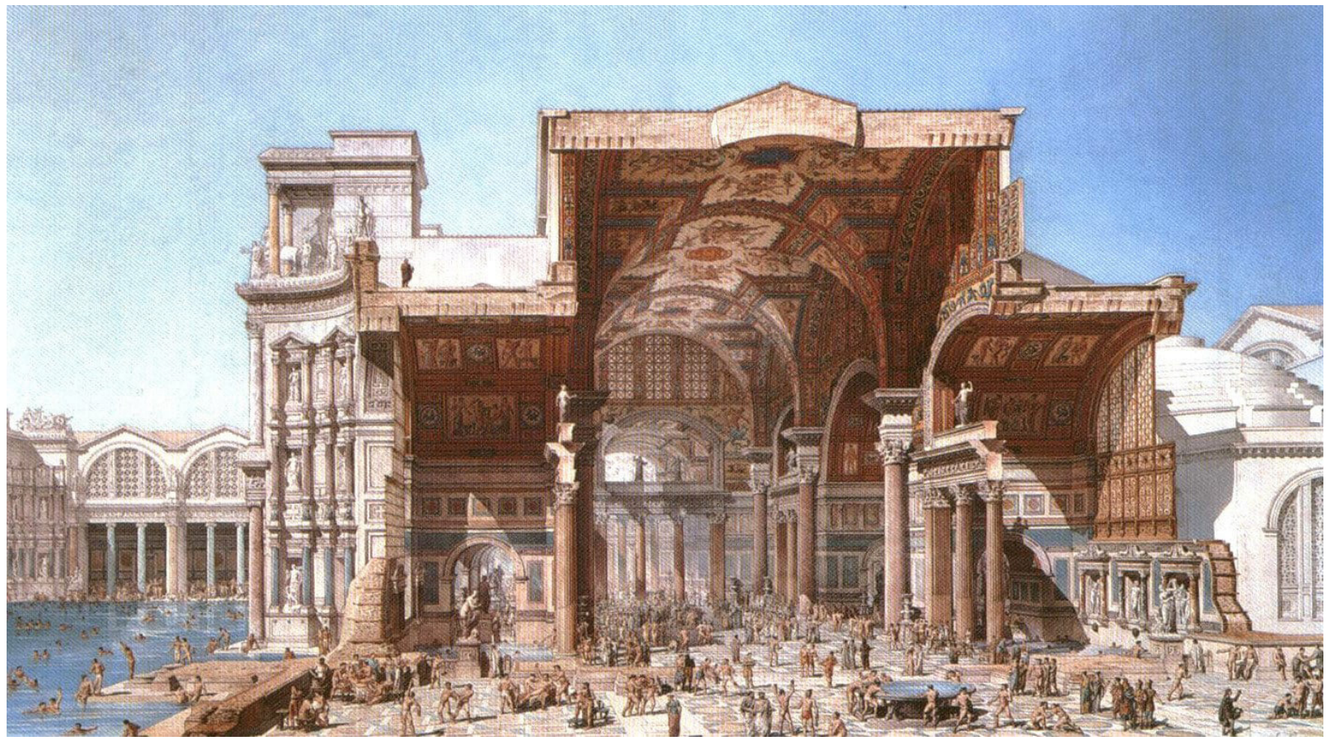
Artist: Emmanuel Oberhausen Repro

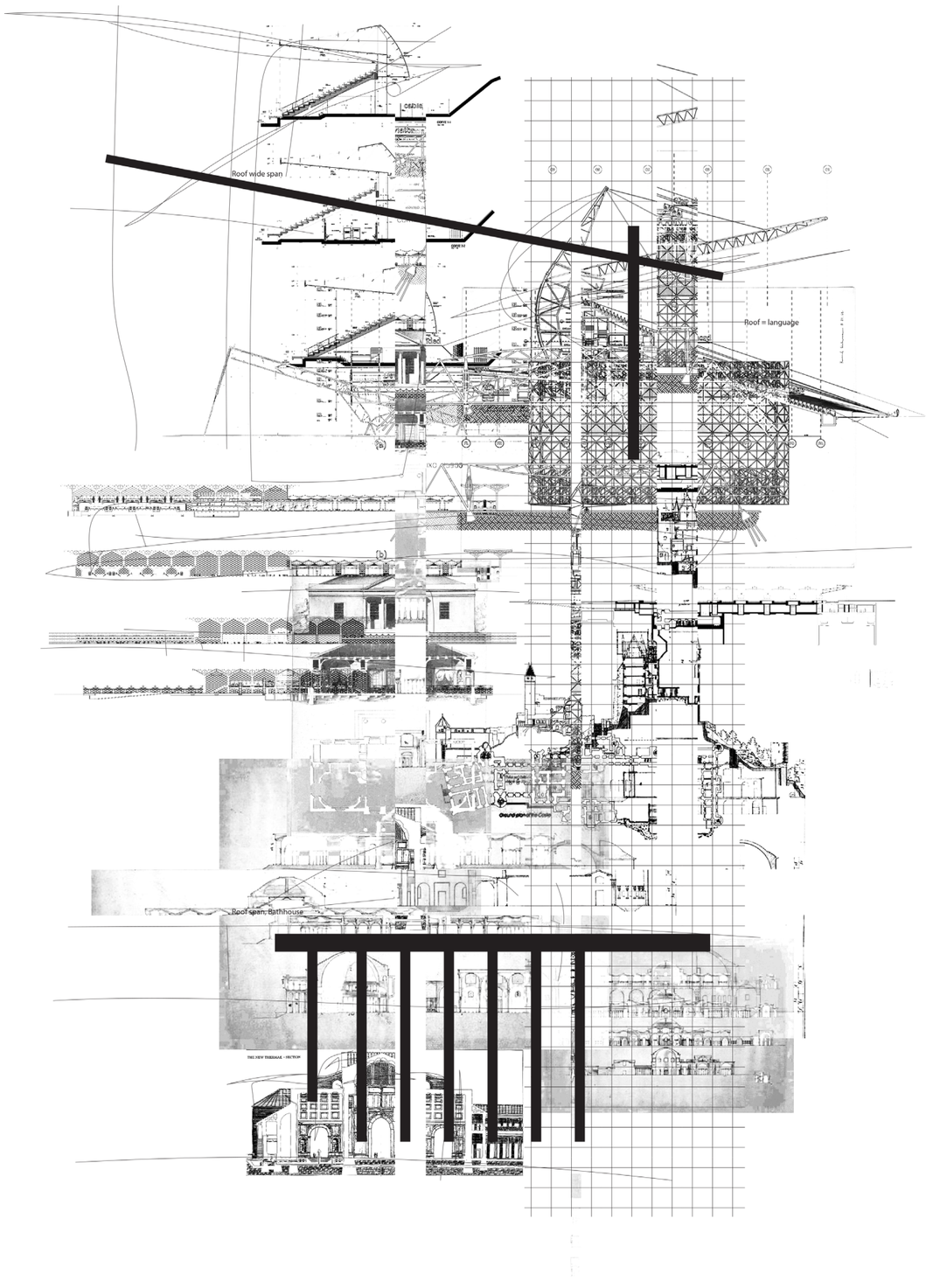
P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



Map 06. Bathhouse - somthing of civic

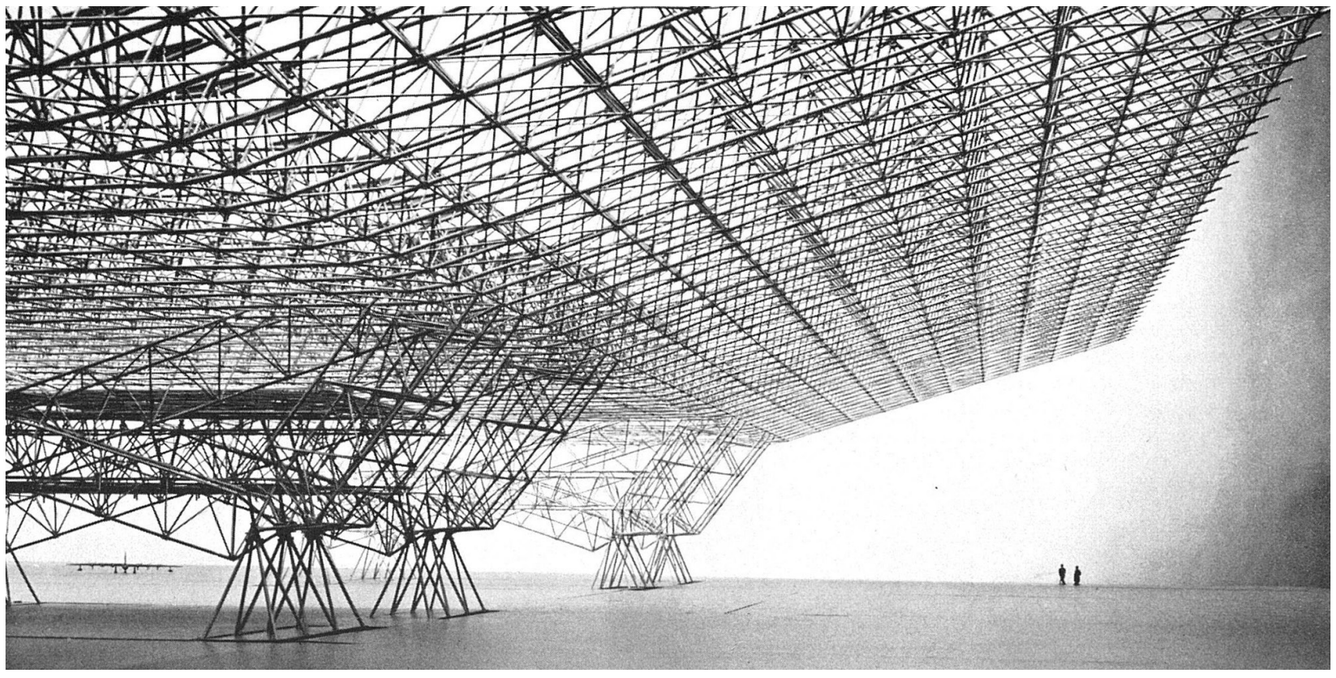
P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762





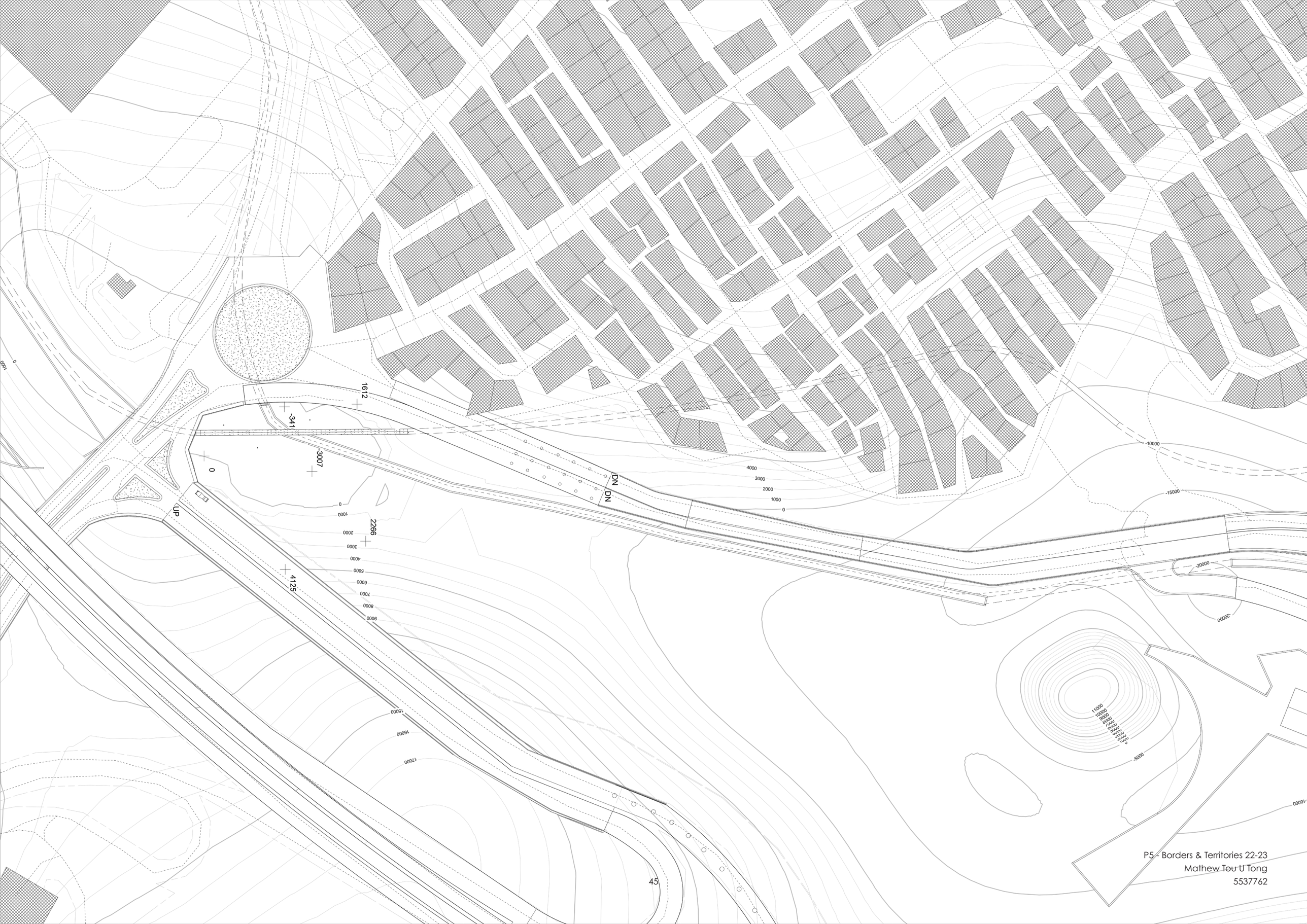
Map 07. Roofing - wide span as a language

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

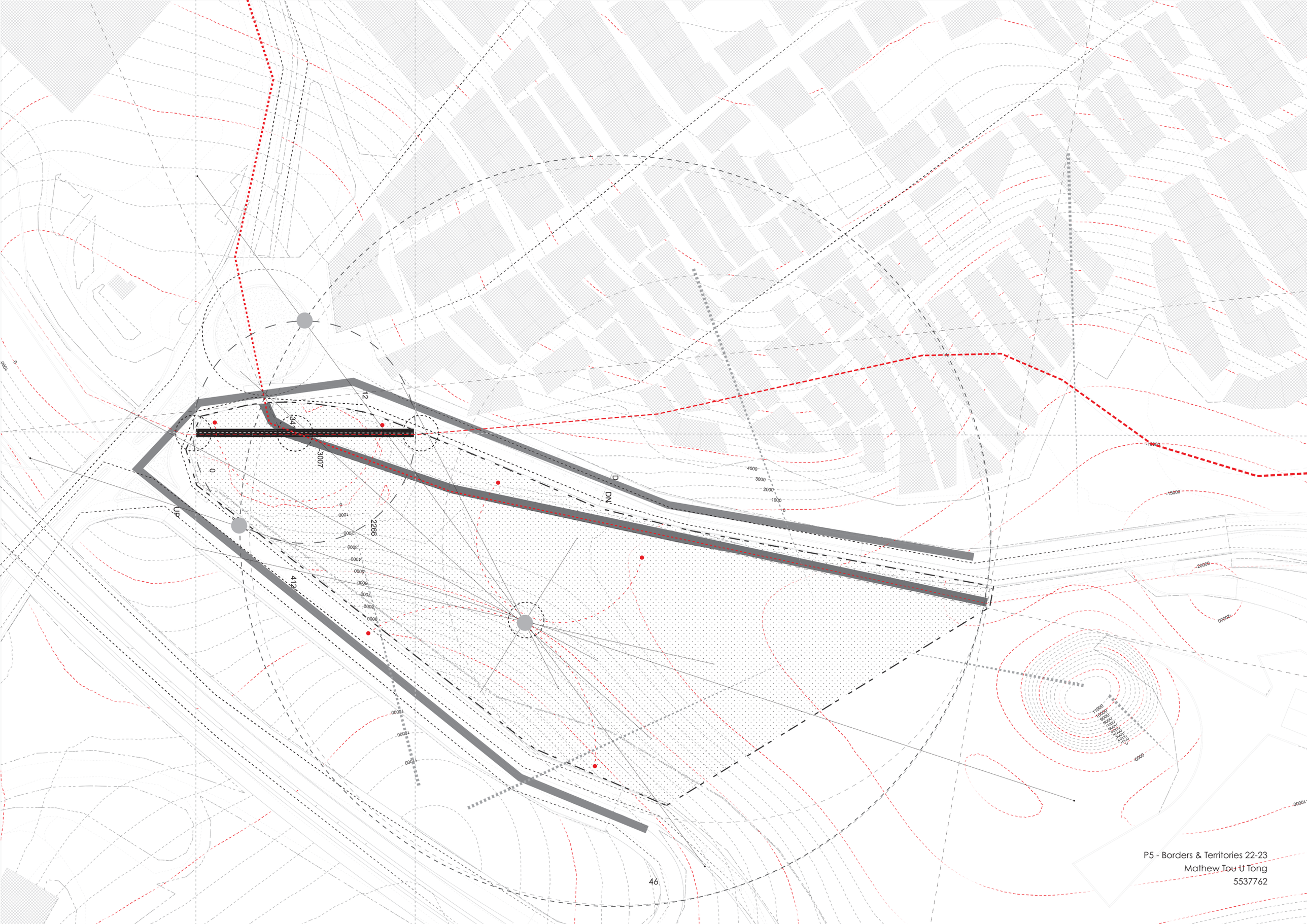


Corner workshop model

04. Architecture of continuity and linearity



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

Cumhuriyet Cd.

Istiklal Cd.

1270. Sk.

Luffi Aykac Blv.

Balikli Kerner Aqueduct

The Balikli Bathhouse

Istanbul Cevre Yolu

DN

UP

1612

-341

-3007

2266

4125

0

1000

2000

6000

7000

8000

9000

15000

16000

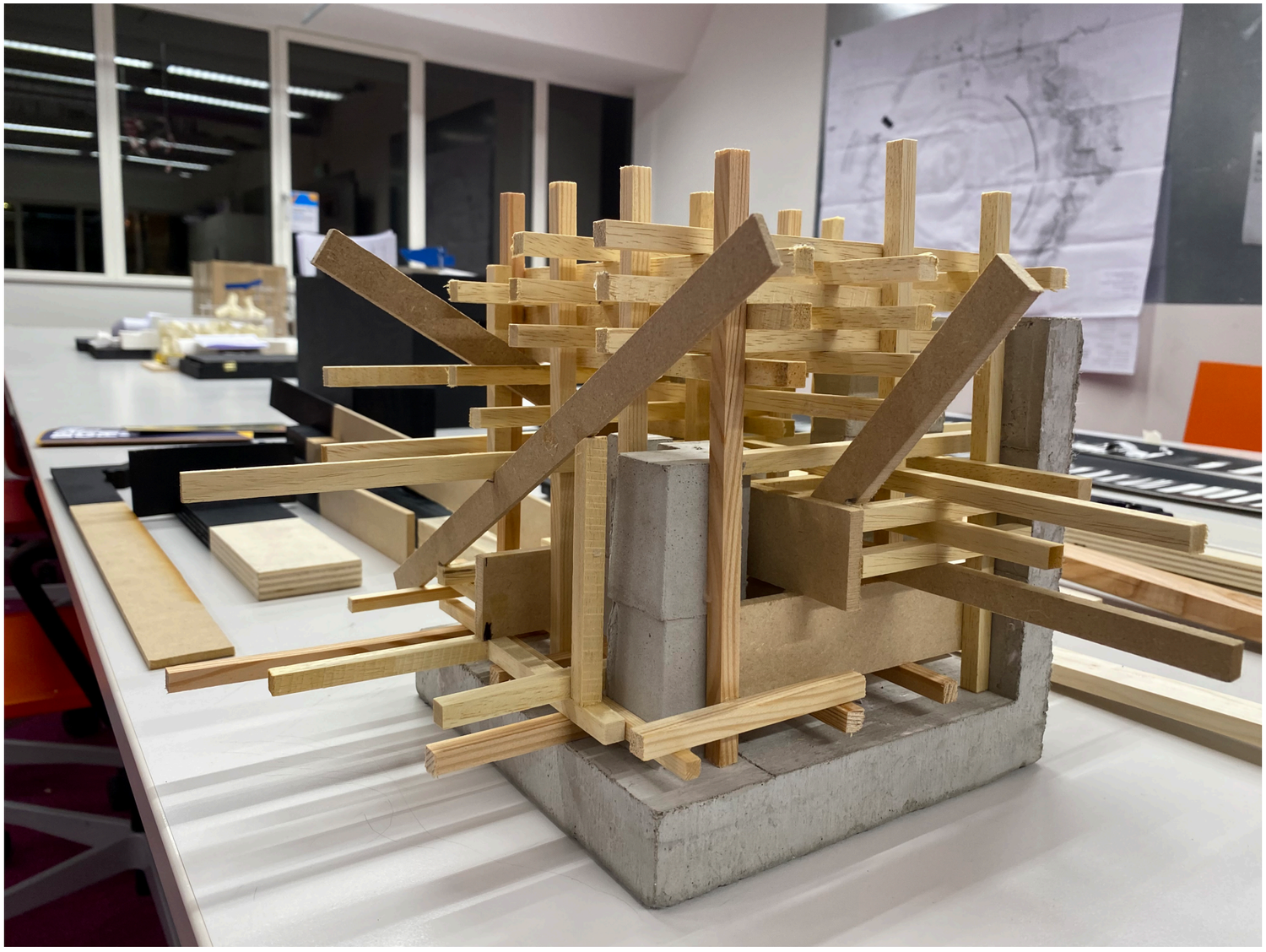
17000

N

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000

The Balikli Bathhouse - Site plan 1:1000

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



Keywords

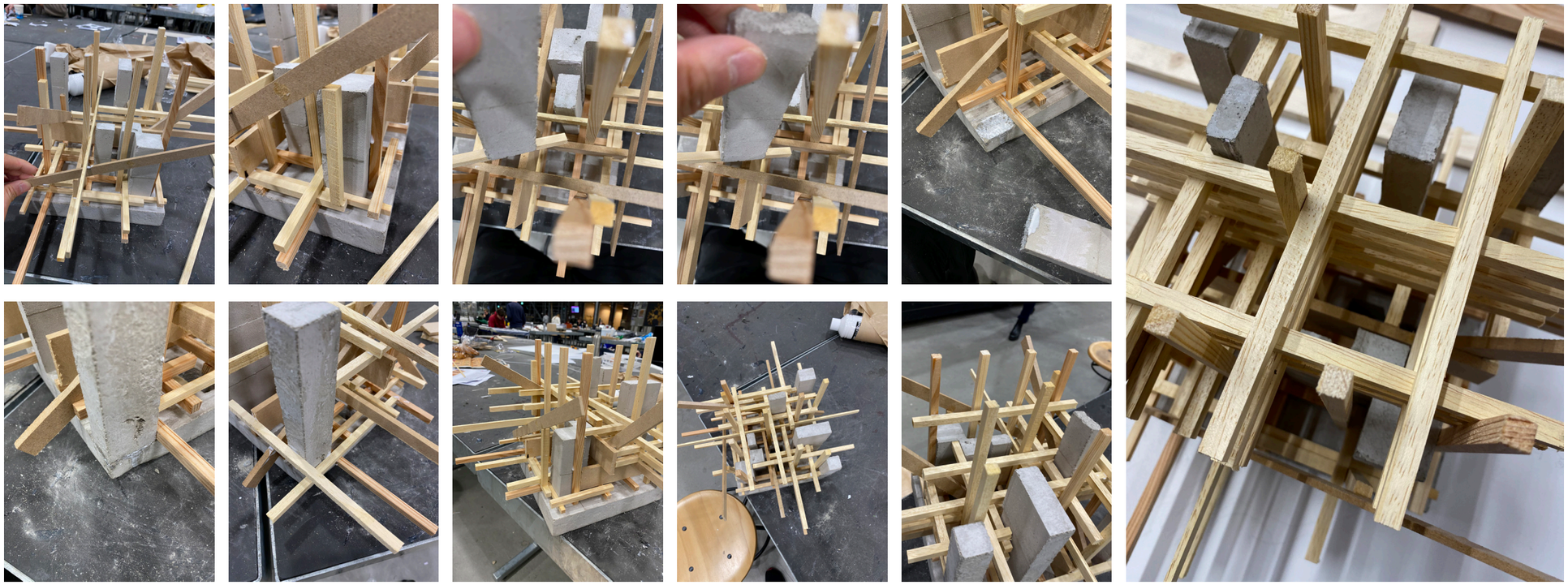
- Focus
- Priority
- Distribution (informal vs formal)
- Grid-like
- Settlement
- Broken pieces
- Opportunities
- Scale
- Angle
- Efficiency
- Ideal vs Reality

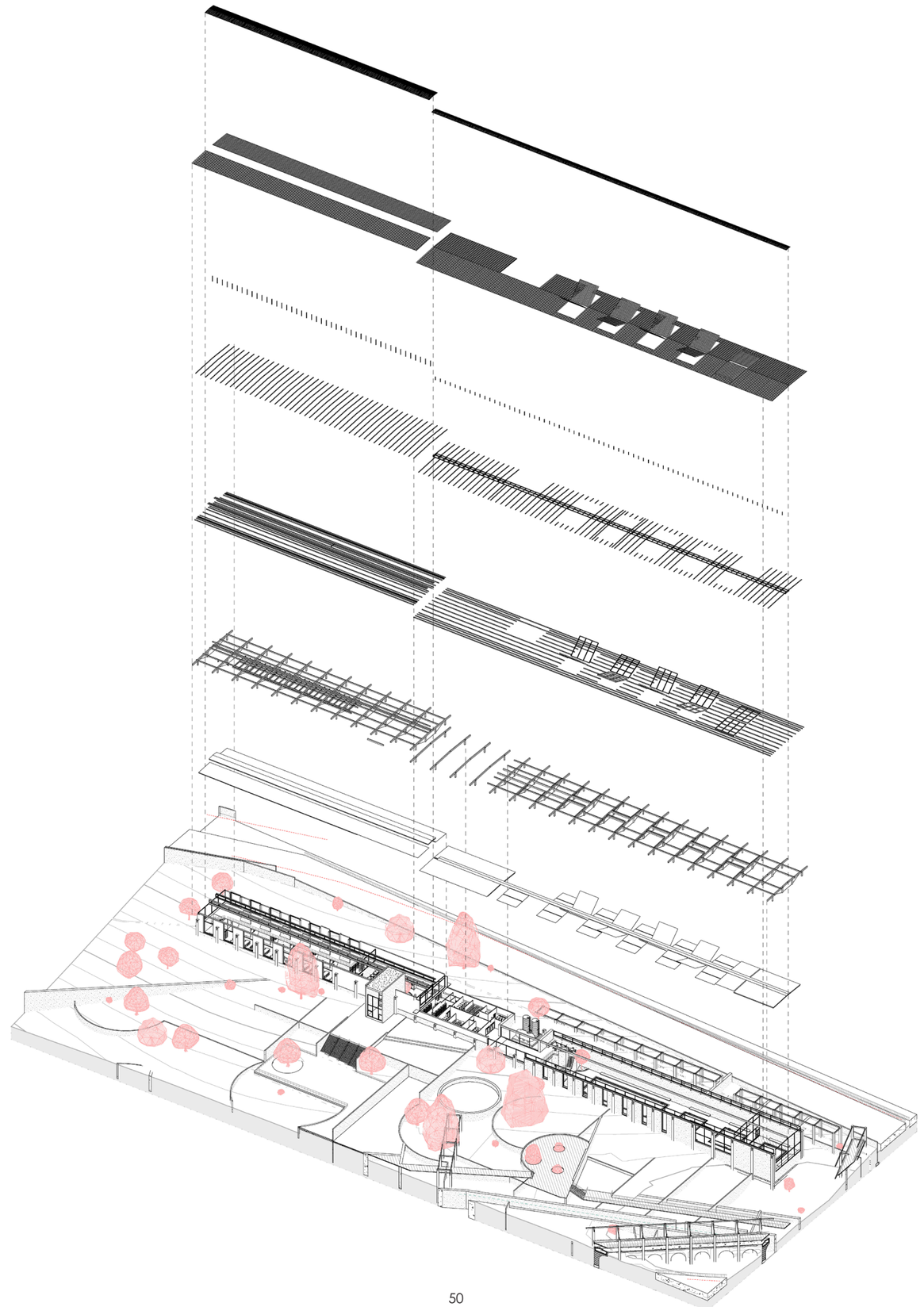
Act of puzzling, fitting & filling

Rule
01. Formal
02. Avoid blocking (hollow)
03. No Horizontal element outside “site”
04. Irregular to “uniform”
05. Efficiency in both time and material
06. Box like
07. Avoid using “Formal element” as support

Space_

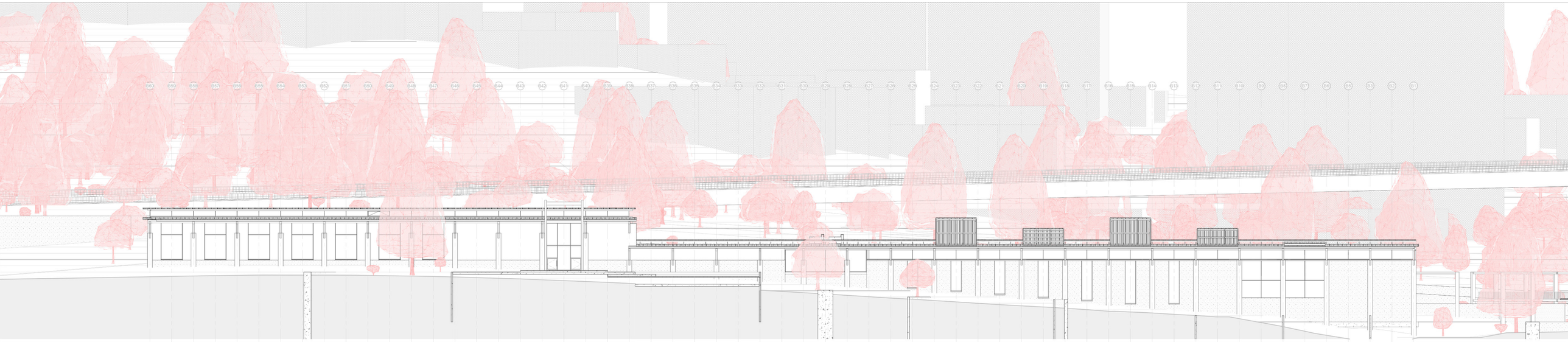
The shifting device





The Balikli Bathhouse - Exploded iso 1:750

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



The Balikli Bathhouse - North Elevation 1:200

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

Roman bath bathing sequence

1. Aquedrams
2. Sphaeristerium
3. Tepidanium
4. Apodyterium
5. Calidarium
6. Laconicum
7. Hypocarstum
8. Frigidarium

Modern days translation

= Ticket office
= Sports court / playground
= Sauna
= Changing room
= Hot room
= Steam room
= Mechanical room
= Shower

The Balikli Bathhouse

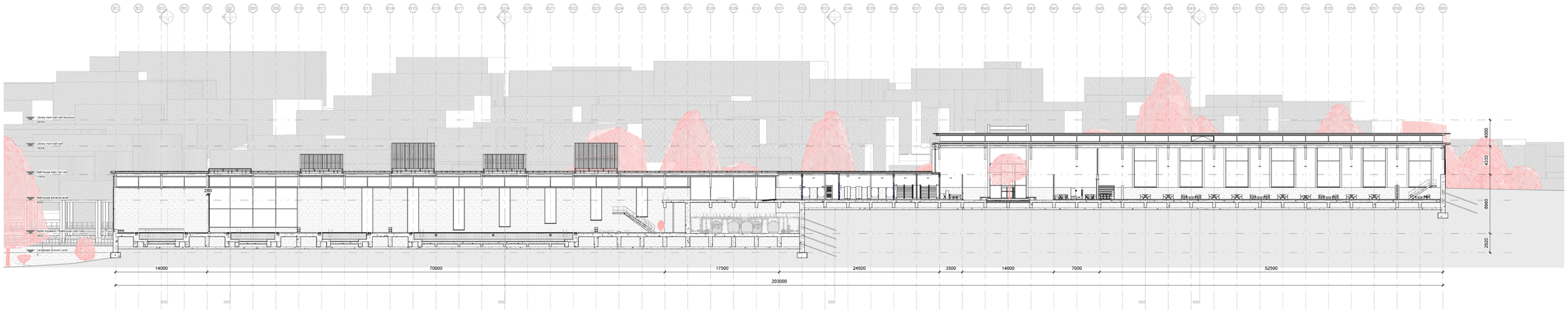
= Entrance
= Landscape
= Sauna
= Changing room
= Main bath
= Main bath / Steam room
= Mechanical room
= Shower

The Balikli Bathhouse Spatial sequence

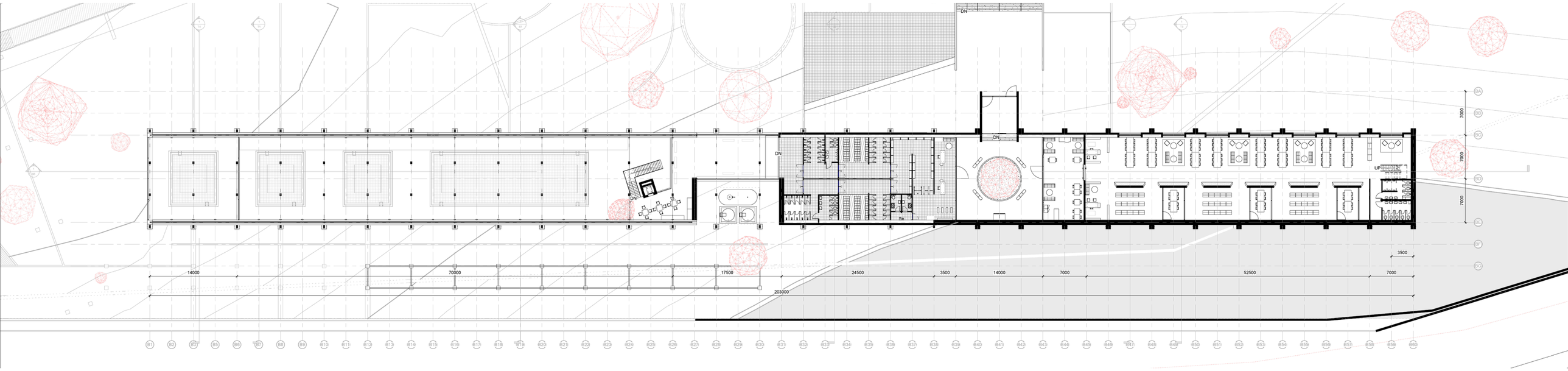
1. Landscape
2. Entrance
3. Changing room
4. Shower
5. Main bath
6. Steam room

Back of house / Service

1. Mechanical room
2. Bathrooms



The Balikli Bathhouse - Long section 1:200

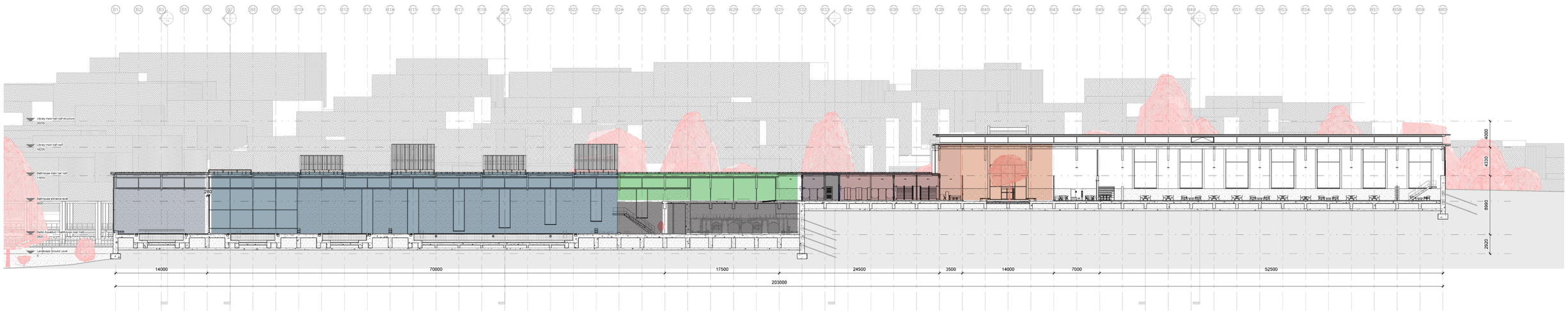


N

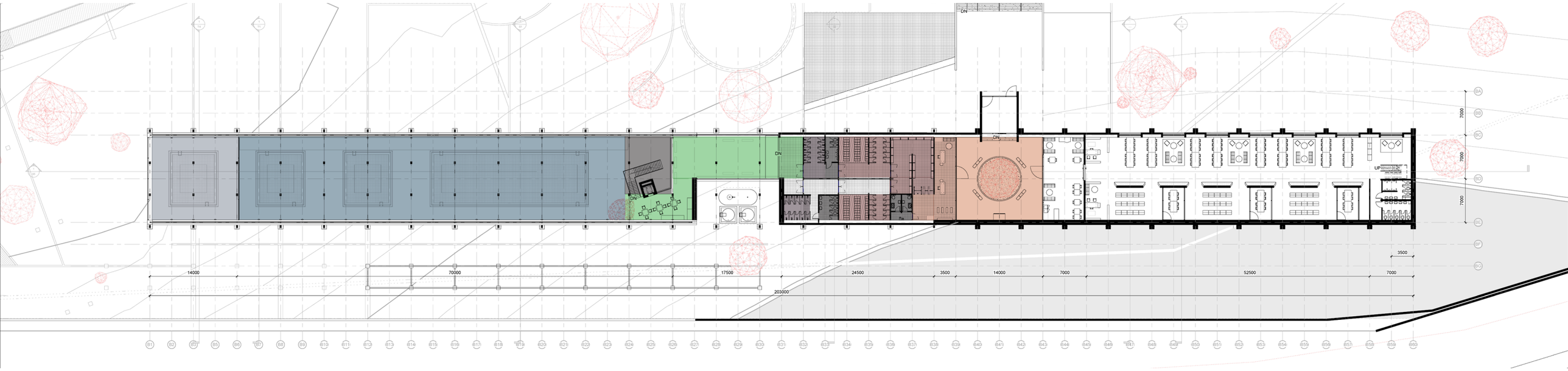
The Balikli Bathhouse - Floor plan 1:200

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

- Lobby / Landscape
- Entrance / Reception
- Changing room
- Shower
- Main bath
- Steam Room
- Back of house / Service
- Passage



The Balikli Bathhouse - Long section 1:200_Zoning

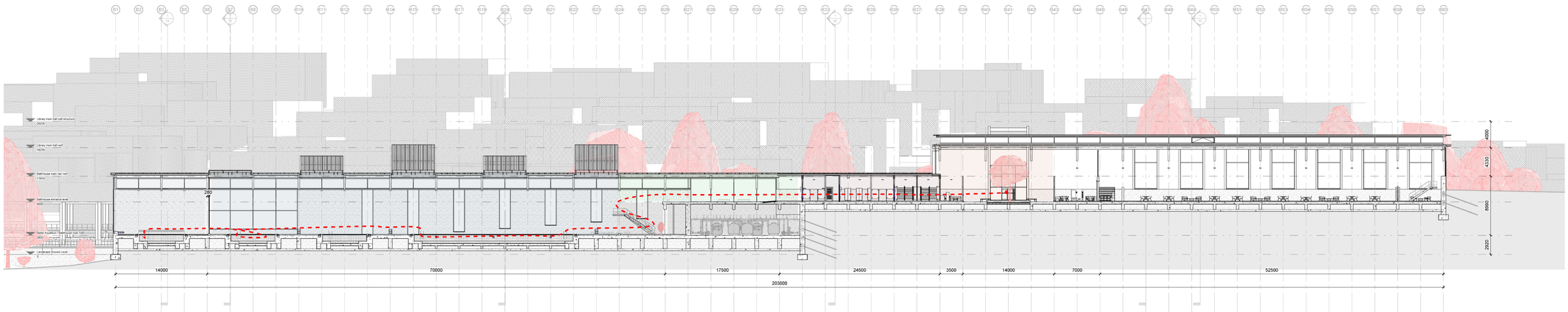


N

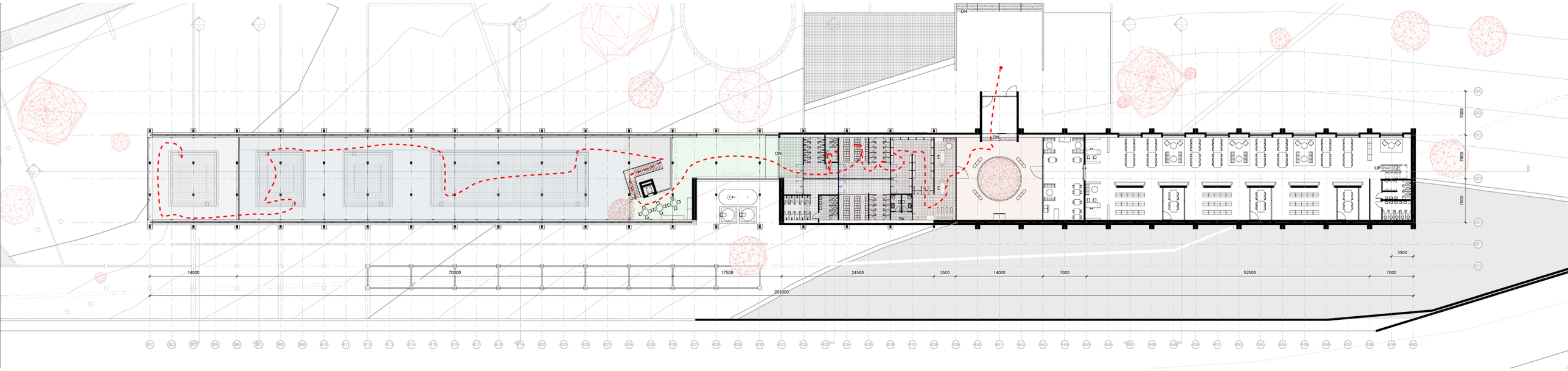
The Balikli Bathhouse - Floor plan 1:200_Zoning

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

- Lobby / Landscape
- Entrance / Reception
- Changing room
- Shower
- Main bath
- Steam Room
- Back of house / Service
- Passage



The Balikli Bathhouse - Long section 1:200_Circulation



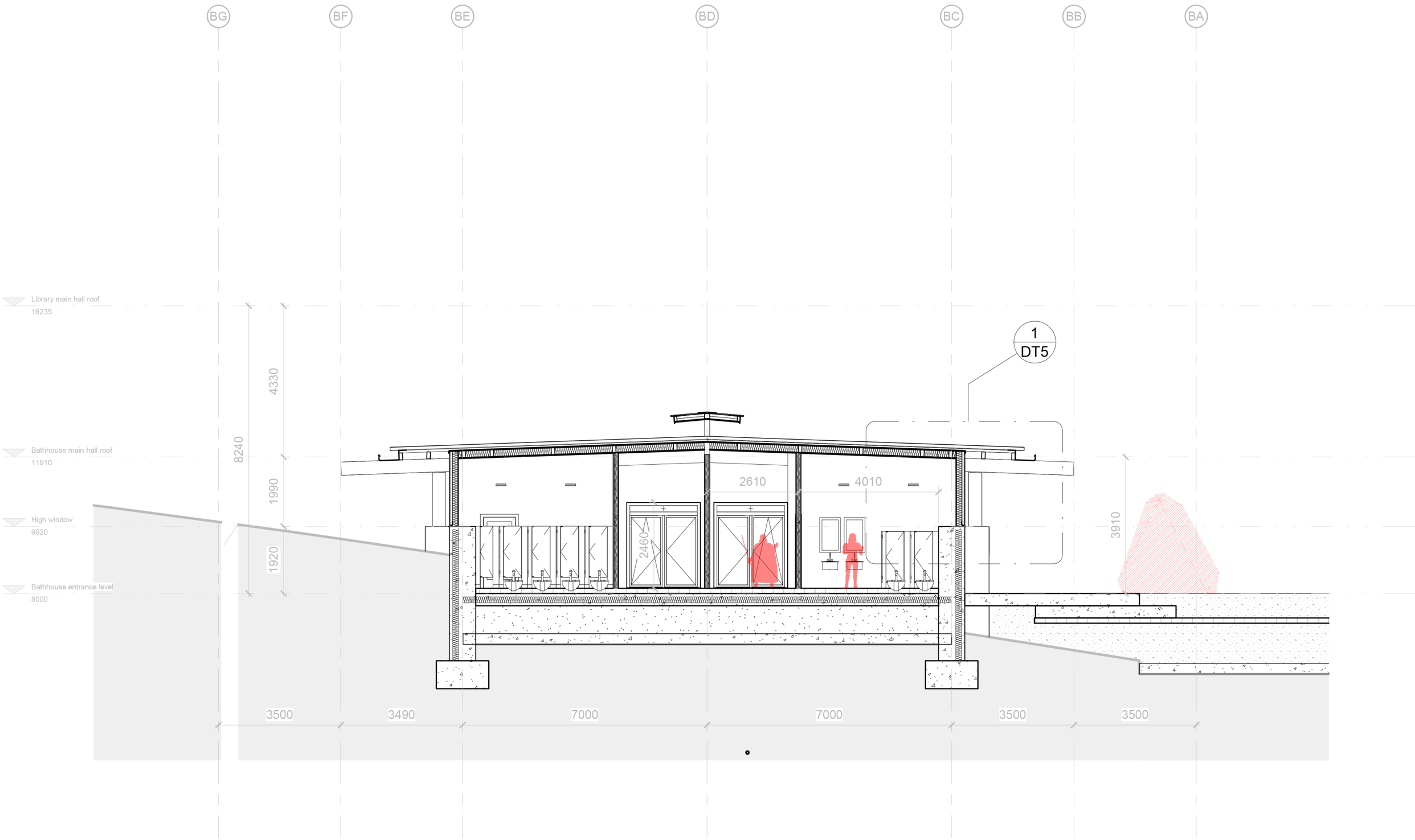
N

The Balikli Bathhouse - Floor plan 1:200_Circulation

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

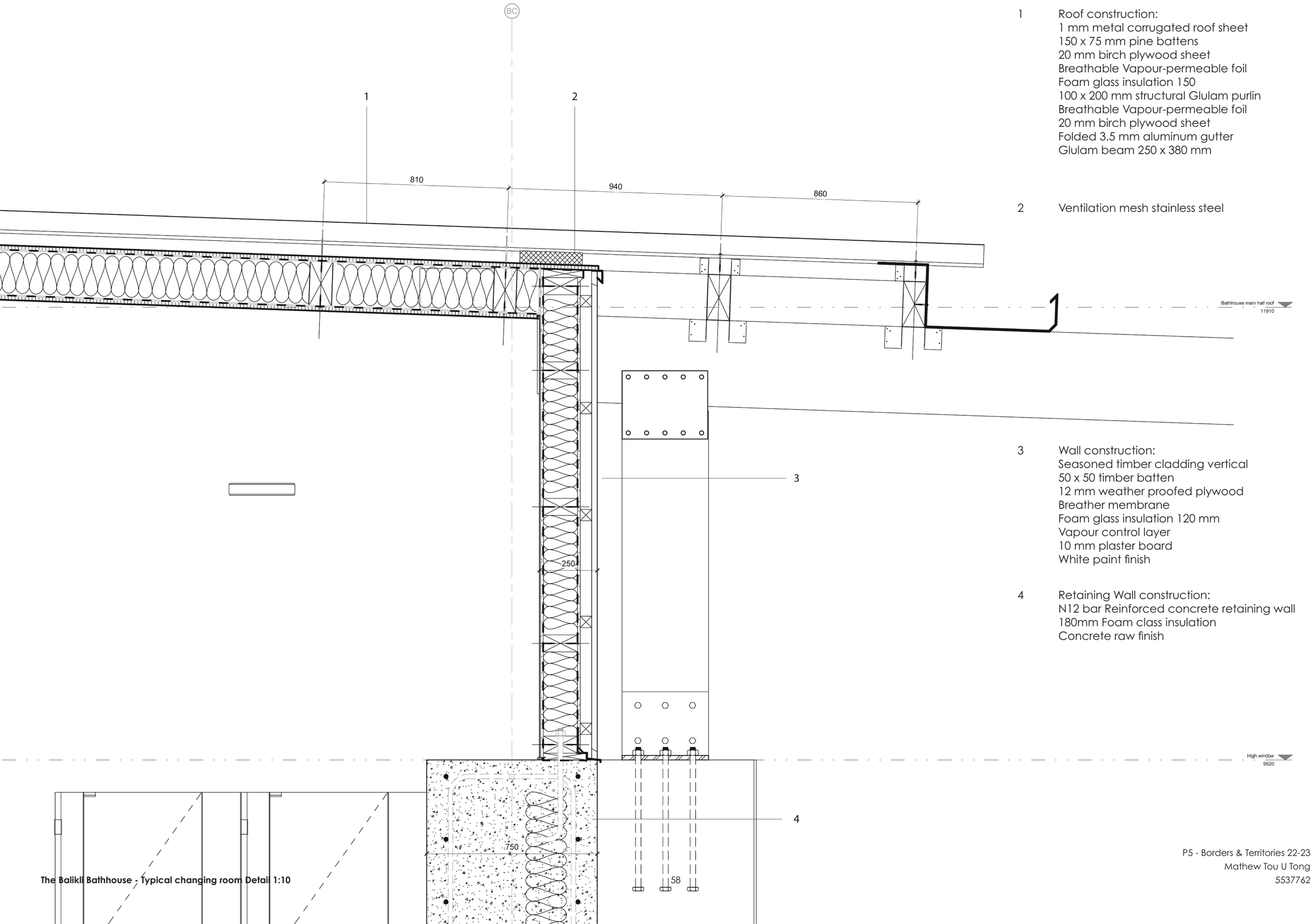


Entrance



The Balikli Bathhouse - Typical changing room section 1:100

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



1 Roof construction:
1 mm metal corrugated roof sheet
150 x 75 mm pine battens
20 mm birch plywood sheet
Breathable Vapour-permeable foil
Foam glass insulation 150
100 x 200 mm structural Glulam purlin
Breathable Vapour-permeable foil
20 mm birch plywood sheet
Folded 3.5 mm aluminum gutter
Glulam beam 250 x 380 mm

2 Ventilation mesh stainless steel

3 Wall construction:
Seasoned timber cladding vertical
50 x 50 timber batten
12 mm weather proofed plywood
Breather membrane
Foam glass insulation 120 mm
Vapour control layer
10 mm plaster board
White paint finish

4 Retaining Wall construction:
N12 bar Reinforced concrete retaining wall
180mm Foam class insulation
Concrete raw finish

The Balikli Bathhouse - Typical changing room Detail 1:10

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762





BG BF BE BD BC BB BA

1
DT3

1
DT8

Bathhouse main hall roof
11910

High window
9920

Bathhouse entrance level
8000

Balikli Aqueduct / Bathhouse main hall
2920

Landscape Ground Level
0

1990

7000

7000

7800

1050

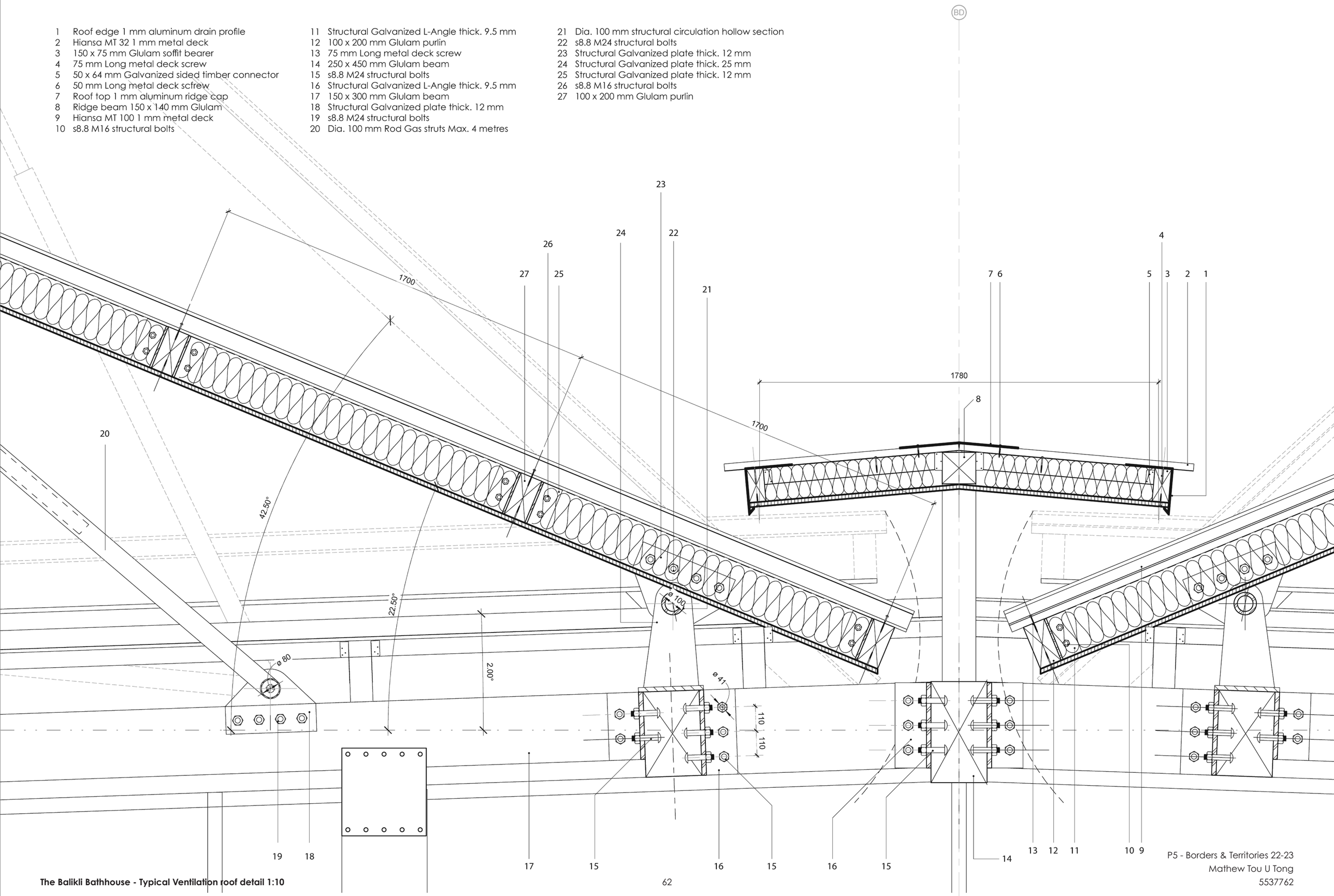
1400

14750

The Balikli Bathhouse - Typical bathhouse section 1:100

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

1 Roof edge 1 mm aluminum drain profile
2 Hiansa MT 32 1 mm metal deck
3 150 x 75 mm Glulam soffit bearer
4 75 mm Long metal deck screw
5 50 x 64 mm Galvanized sided timber connector
6 50 mm Long metal deck scfrew
7 Roof top 1 mm aluminum ridge cap
8 Ridge beam 150 x 140 mm Glulam
9 Hiansa MT 100 1 mm metal deck
10 s8.8 M16 structural bolts
11 Structural Galvanized L-Angle thick. 9.5 mm
12 100 x 200 mm Glulam purlin
13 75 mm Long metal deck screw
14 250 x 450 mm Glulam beam
15 s8.8 M24 structural bolts
16 Structural Galvanized L-Angle thick. 9.5 mm
17 150 x 300 mm Glulam beam
18 Structural Galvanized plate thick. 12 mm
19 s8.8 M24 structural bolts
20 Dia. 100 mm Rod Gas struts Max. 4 metres
21 Dia. 100 mm structural circulation hollow section
22 s8.8 M24 structural bolts
23 Structural Galvanized plate thick. 12 mm
24 Structural Galvanized plate thick. 25 mm
25 Structural Galvanized plate thick. 12 mm
26 s8.8 M16 structural bolts
27 100 x 200 mm Glulam purlin



The Balikli Bathhouse - Typical Ventilation roof detail 1:10

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



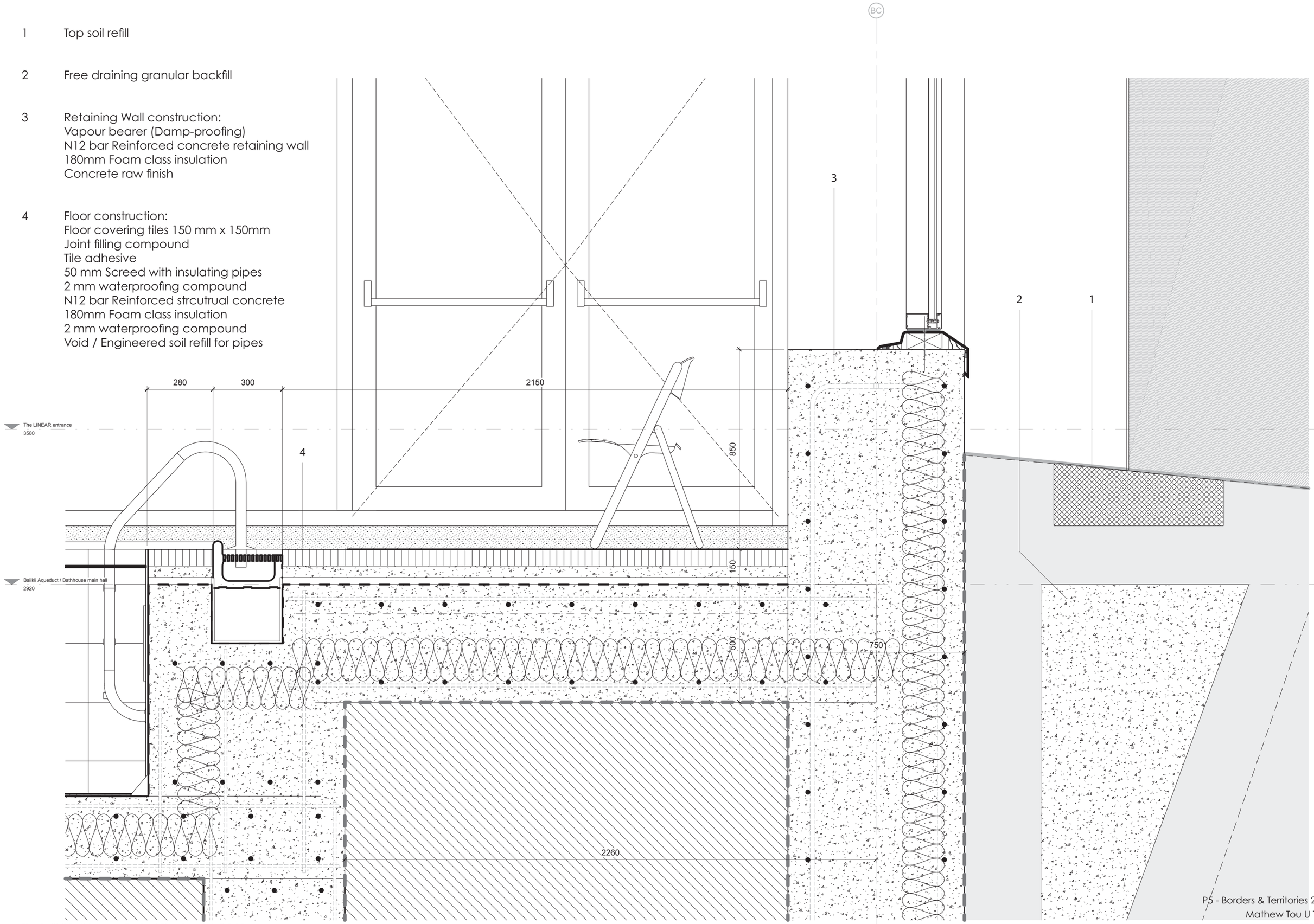
The Balikili Bathhouse - Thermal pools

1 Top soil refill

2 Free draining granular backfill

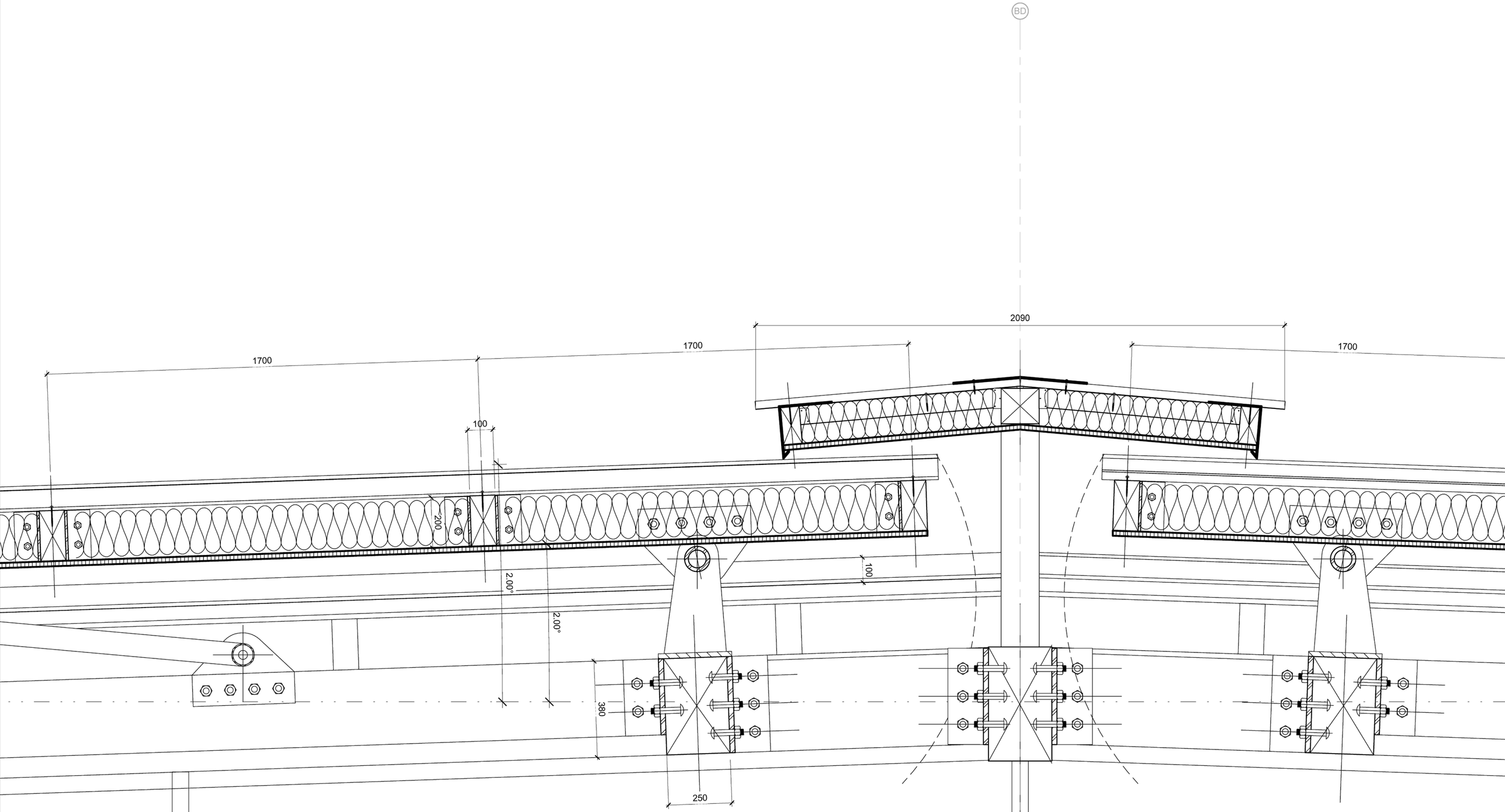
3 Retaining Wall construction:
Vapour bearer (Damp-proofing)
N12 bar Reinforced concrete retaining wall
180mm Foam class insulation
Concrete raw finish

4 Floor construction:
Floor covering tiles 150 mm x 150mm
Joint filling compound
Tile adhesive
50 mm Screed with insulating pipes
2 mm waterproofing compound
N12 bar Reinforced strcutrual concrete
180mm Foam class insulation
2 mm waterproofing compound
Void / Engineered soil refill for pipes



The Balikli Bathhouse - Typical Flooring detail 1:10

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

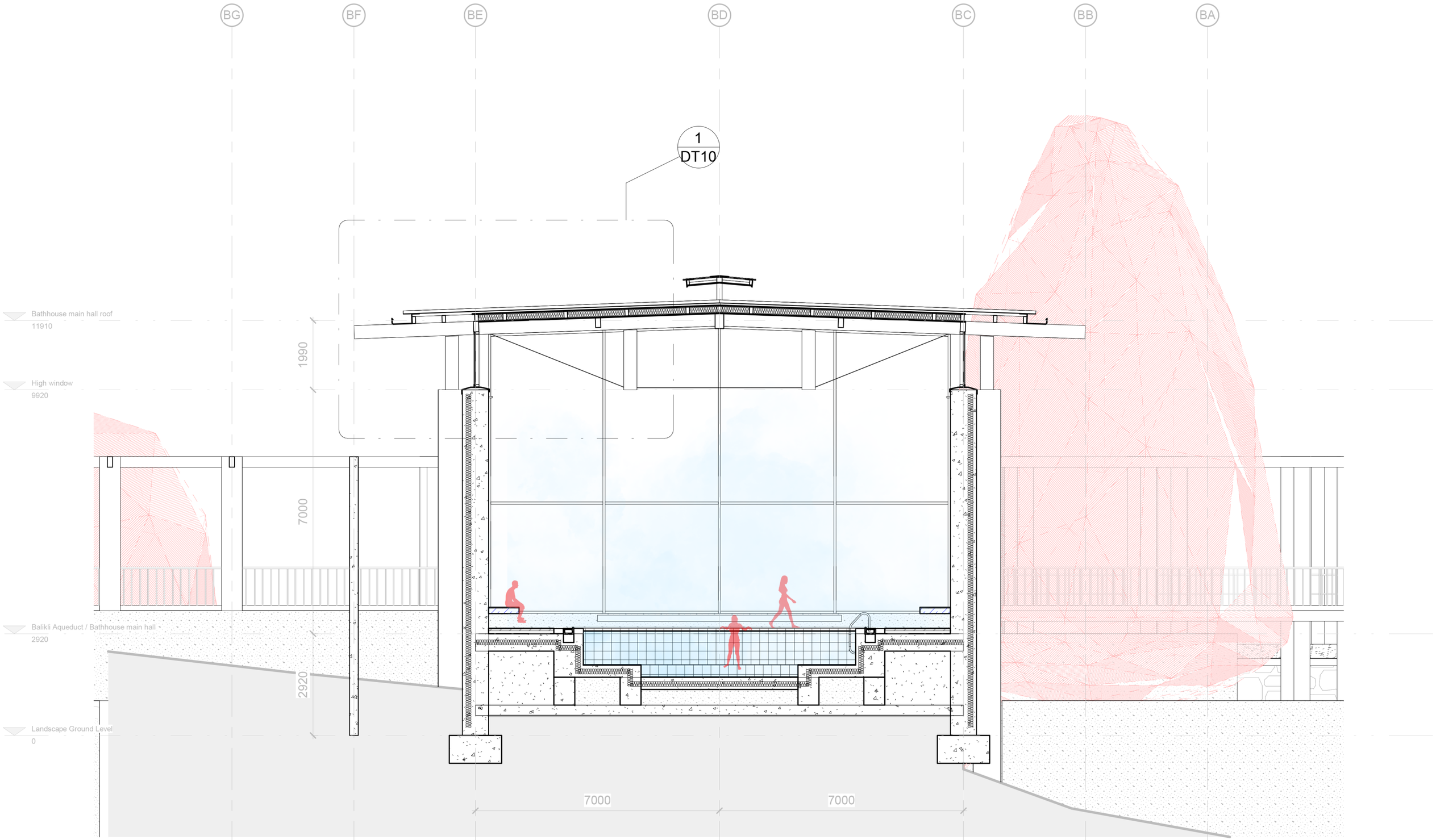


The Balikli Bathhouse - Typical Ventilation Roof (Closed) detail 1:10

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



Steam-room



The Balikli Bathhouse - Typical steam-room section 1:100

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

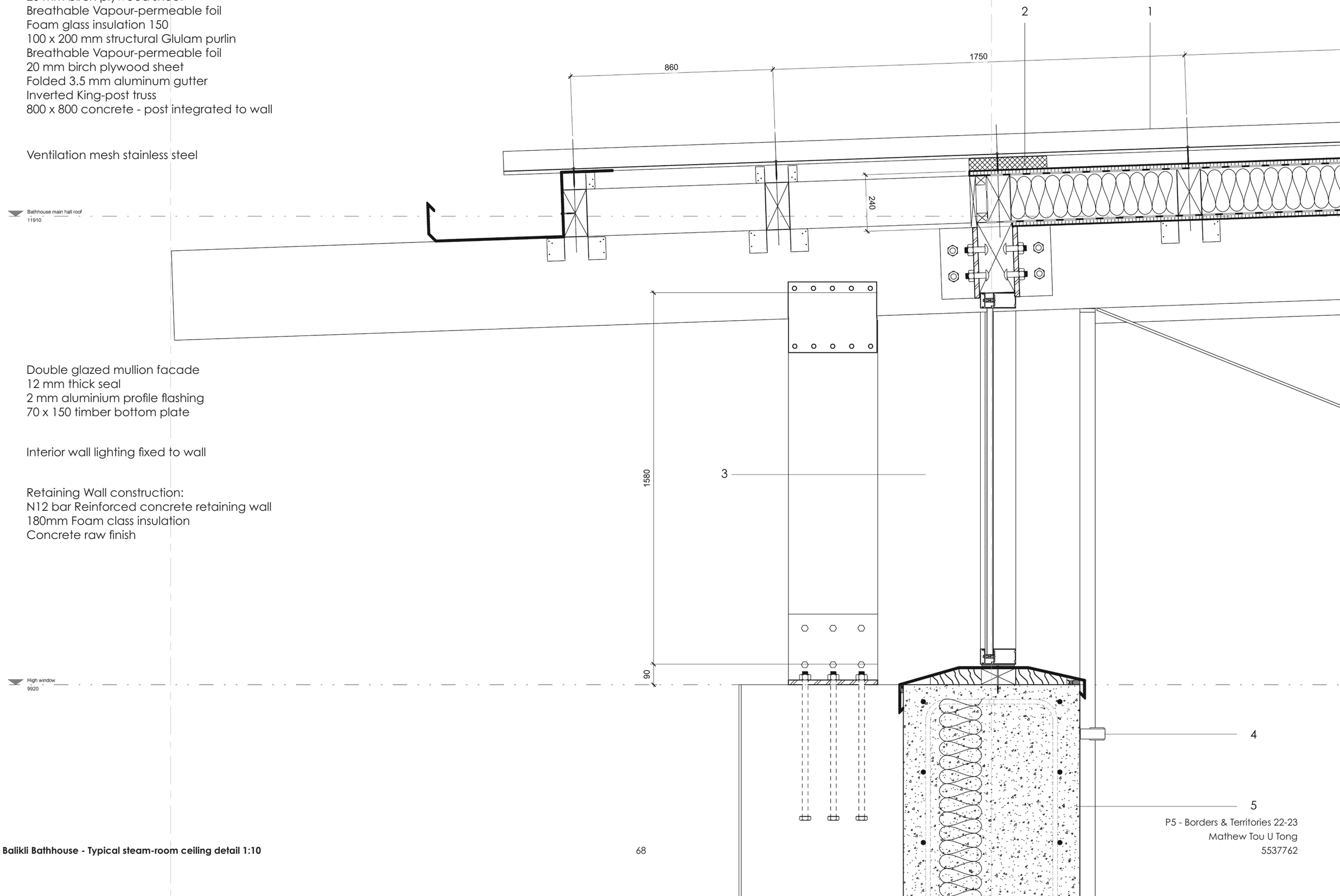
1 Roof construction:
1 mm metal corrugated roof sheet
150 x 75 mm pine battens
20 mm birch plywood sheet
Breathable Vapour-permeable foil
Foam glass insulation 150
100 x 200 mm structural Glulam purlin
Breathable Vapour-permeable foil
20 mm birch plywood sheet
Folded 3.5 mm aluminum gutter
Inverted King-post truss
800 x 800 concrete - post integrated to wall

2 Ventilation mesh stainless steel

3 Double glazed mullion facade
12 mm thick seal
2 mm aluminium profile flashing
70 x 150 timber bottom plate

4 Interior wall lighting fixed to wall

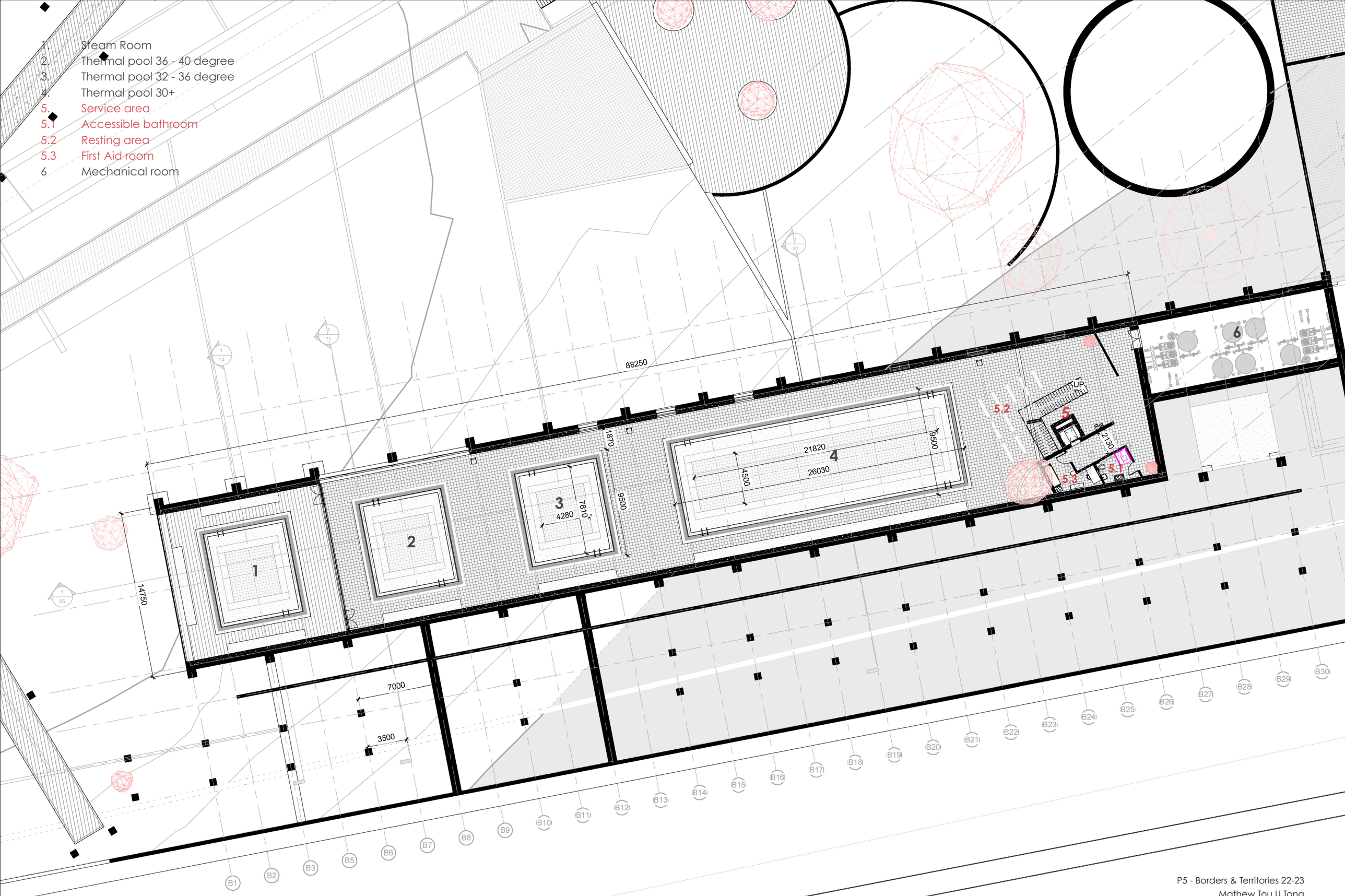
5 Retaining Wall construction:
N12 bar Reinforced concrete retaining wall
180mm Foam class insulation
Concrete raw finish



The Balikli Bathhouse - Typical steam-room ceiling detail 1:10

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

1. Steam Room
2. Thermal pool 36 - 40 degree
3. Thermal pool 32 - 36 degree
4. Thermal pool 30+
5. Service area
5.1 Accessible bathroom
5.2 Resting area
5.3 First Aid room
6 Mechanical room



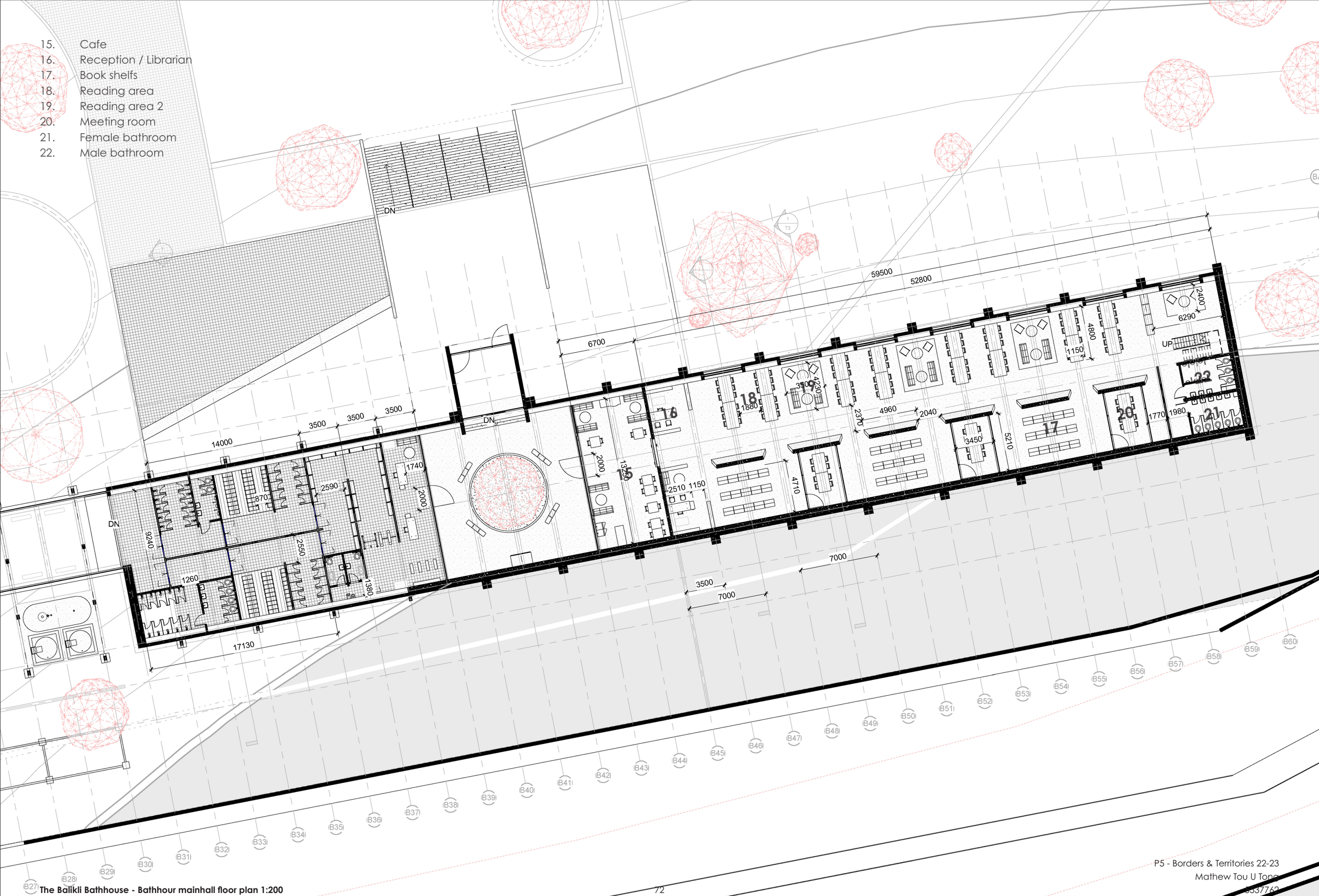
The Balikli Bathhouse - Bathhour mainhall floor plan 1:200

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762

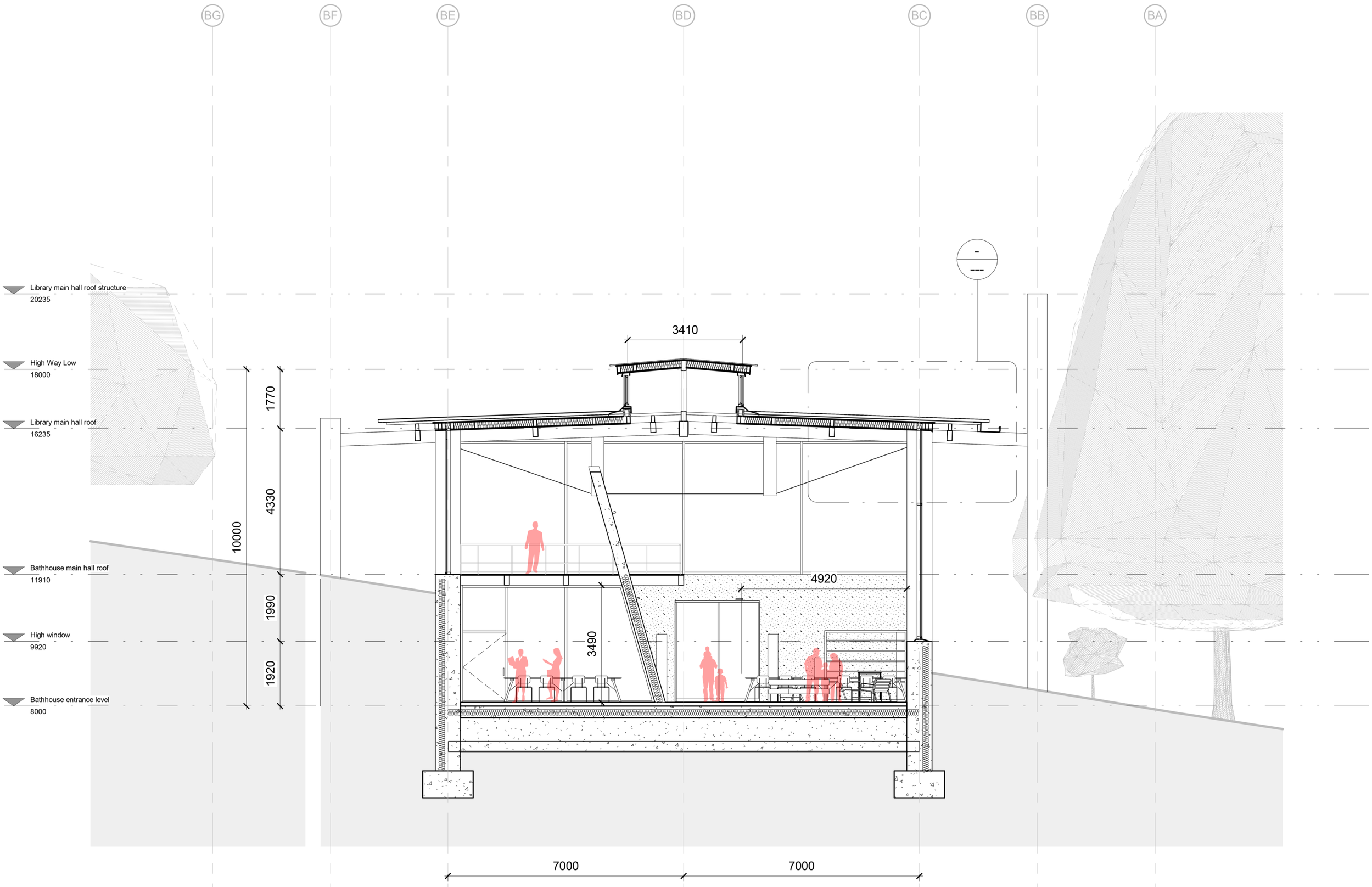
05. Architecture of contributory value - Climate, social & energy



15. Cafe
16. Reception / Librarian
17. Book shelfs
18. Reading area
19. Reading area 2
20. Meeting room
21. Female bathroom
22. Male bathroom

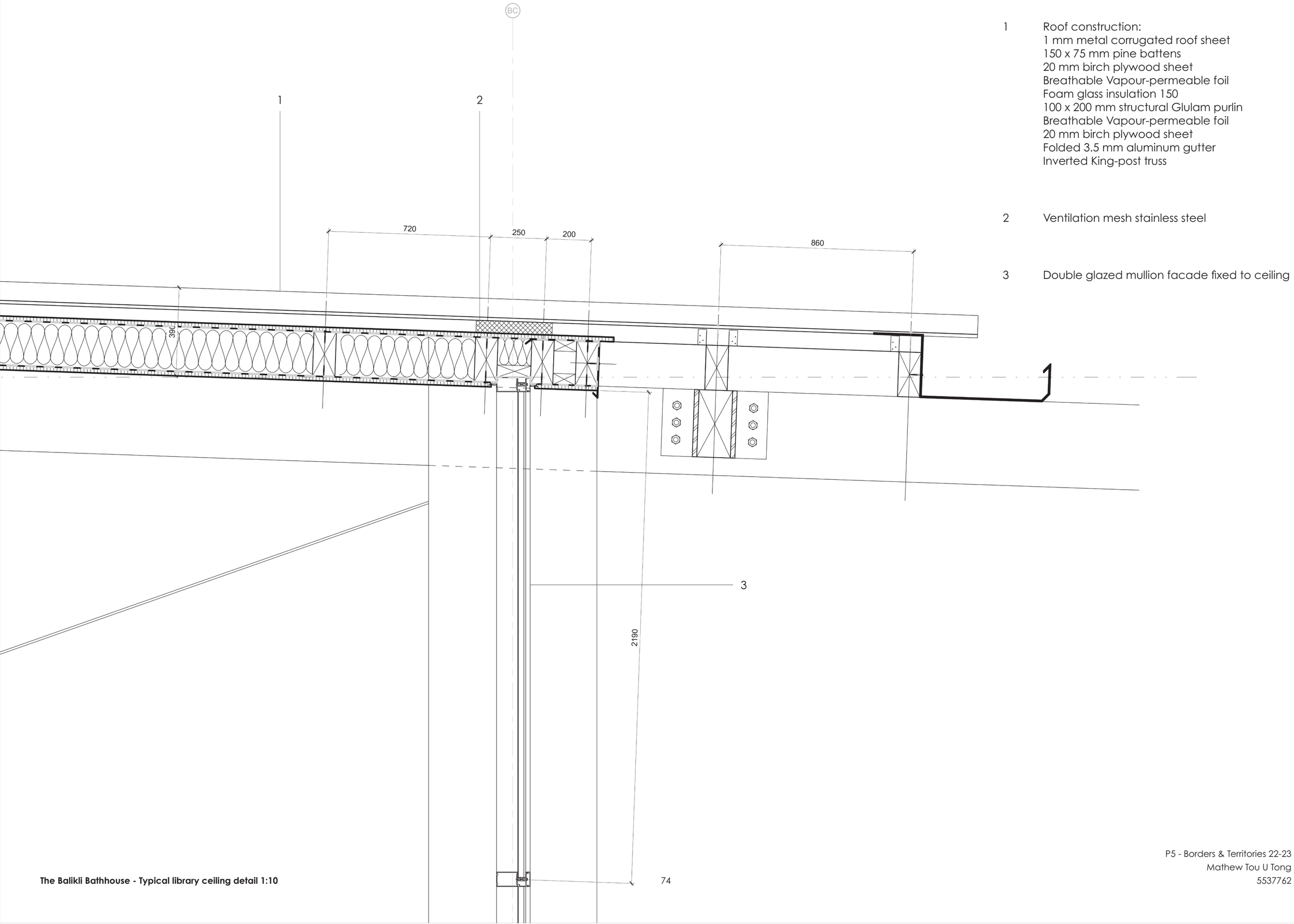


The Balıklı Bathhouse - Bathhour mainhall floor plan 1:200



The Balikli Bathhouse - Typical library section 1:100

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



1 Roof construction:
1 mm metal corrugated roof sheet
150 x 75 mm pine battens
20 mm birch plywood sheet
Breathable Vapour-permeable foil
Foam glass insulation 150
100 x 200 mm structural Glulam purlin
Breathable Vapour-permeable foil
20 mm birch plywood sheet
Folded 3.5 mm aluminum gutter
Inverted King-post truss

2 Ventilation mesh stainless steel

3 Double glazed mullion facade fixed to ceiling

The Balikli Bathhouse - Typical library ceiling detail 1:10

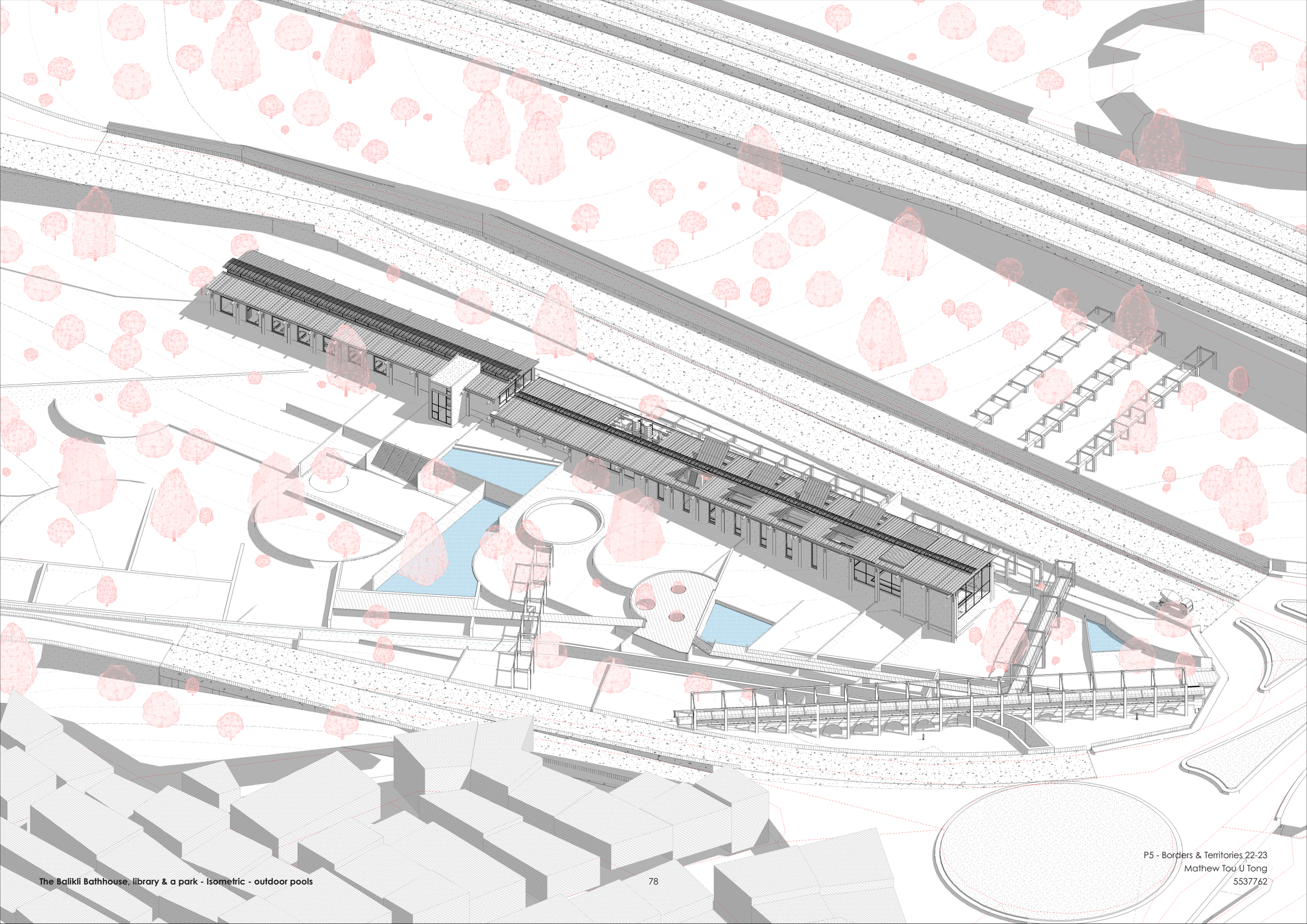
P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



Reading area

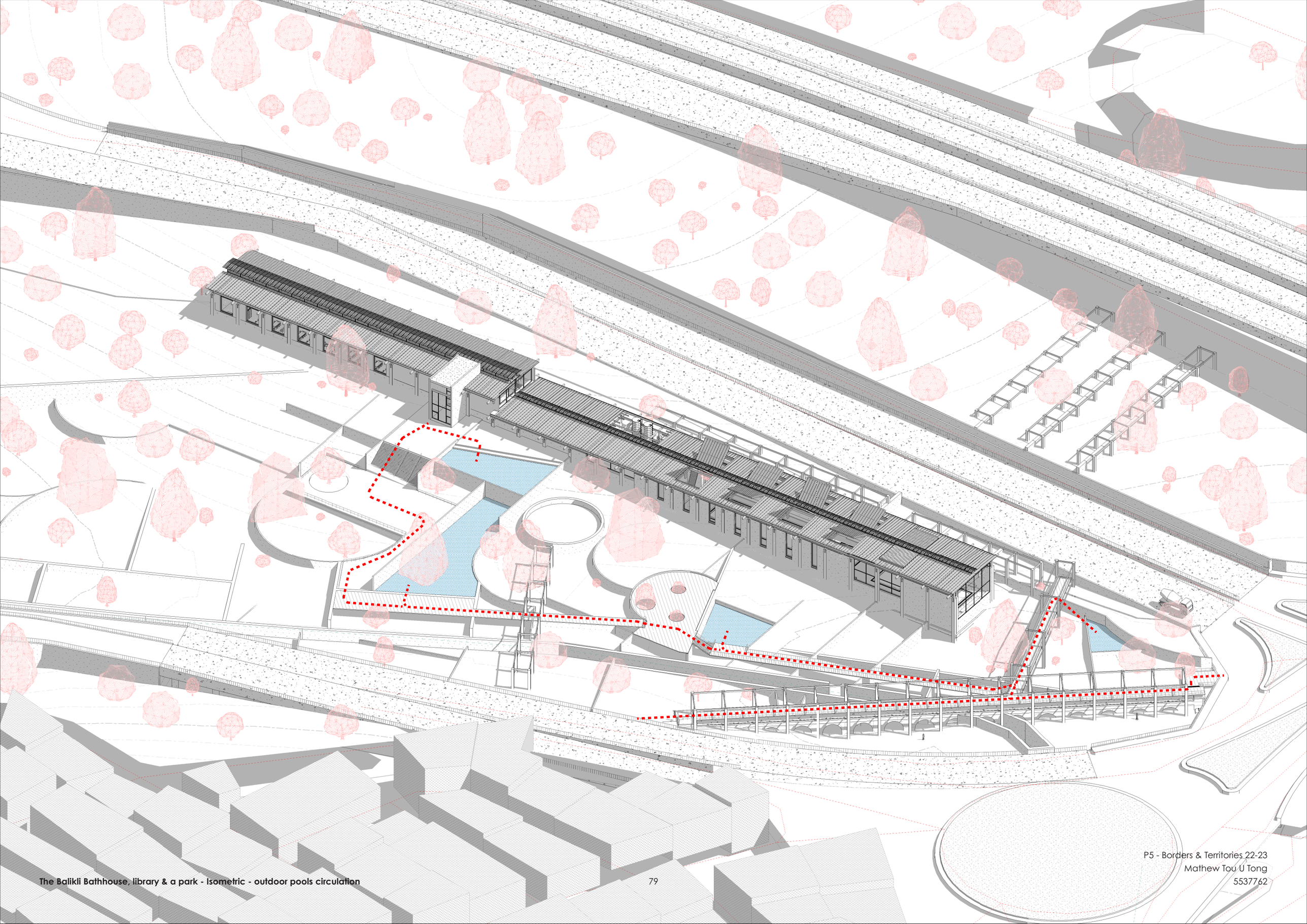
Architecture and landscape of shared value & common ground





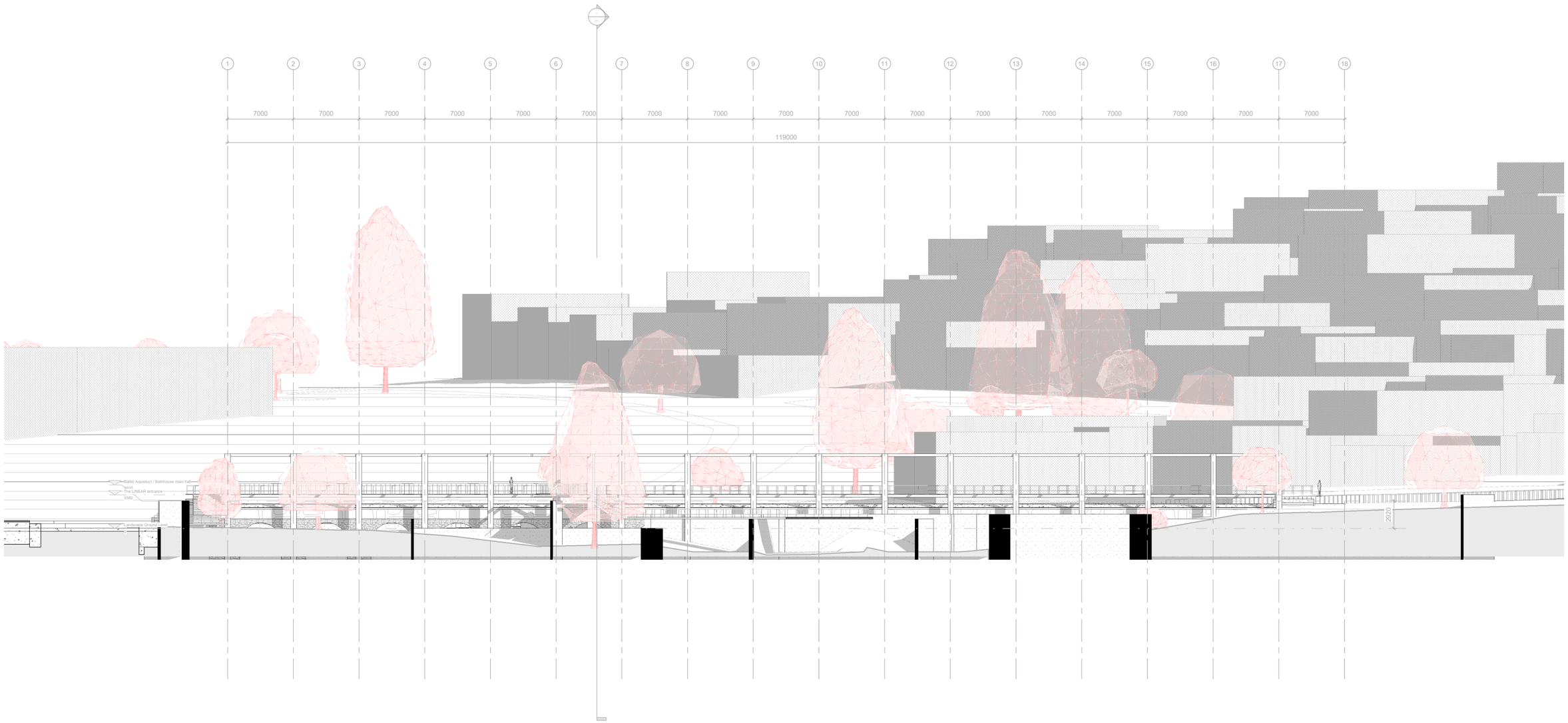
The Balikli Bathhouse, library & a park - Isometric - outdoor pools

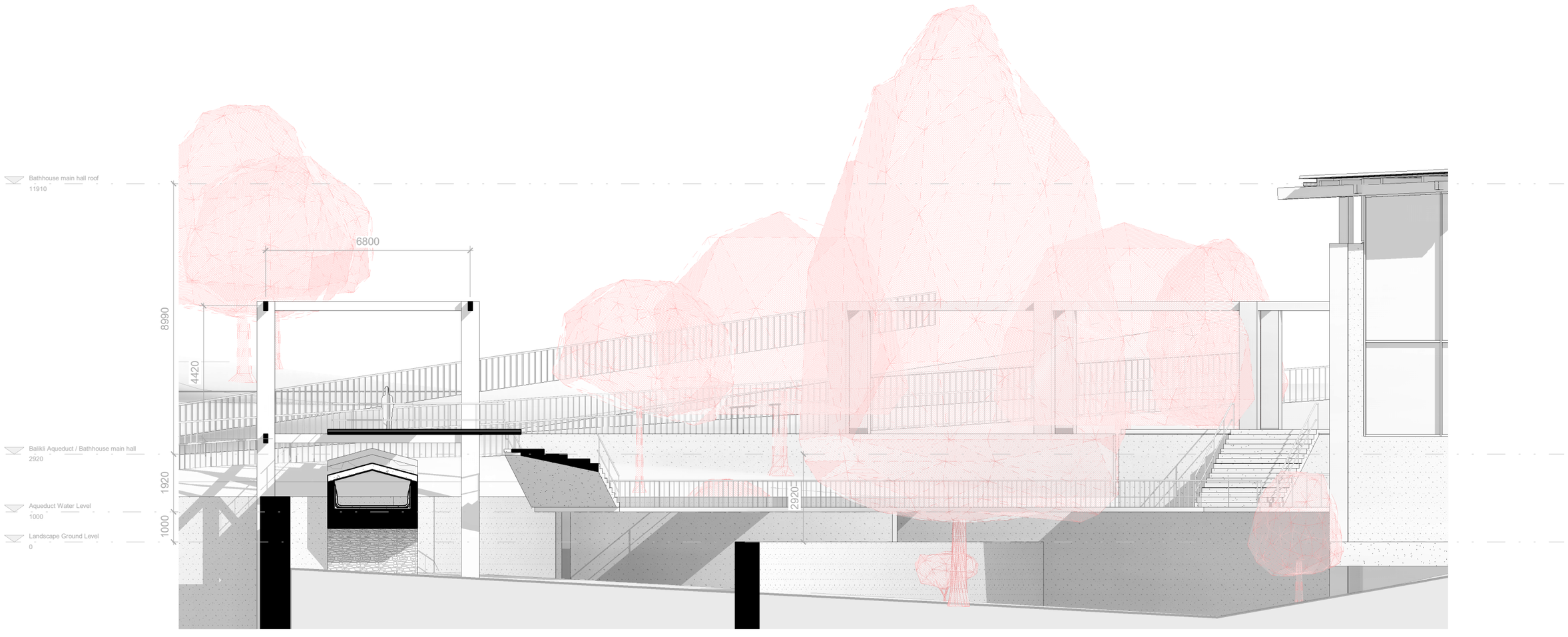
P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



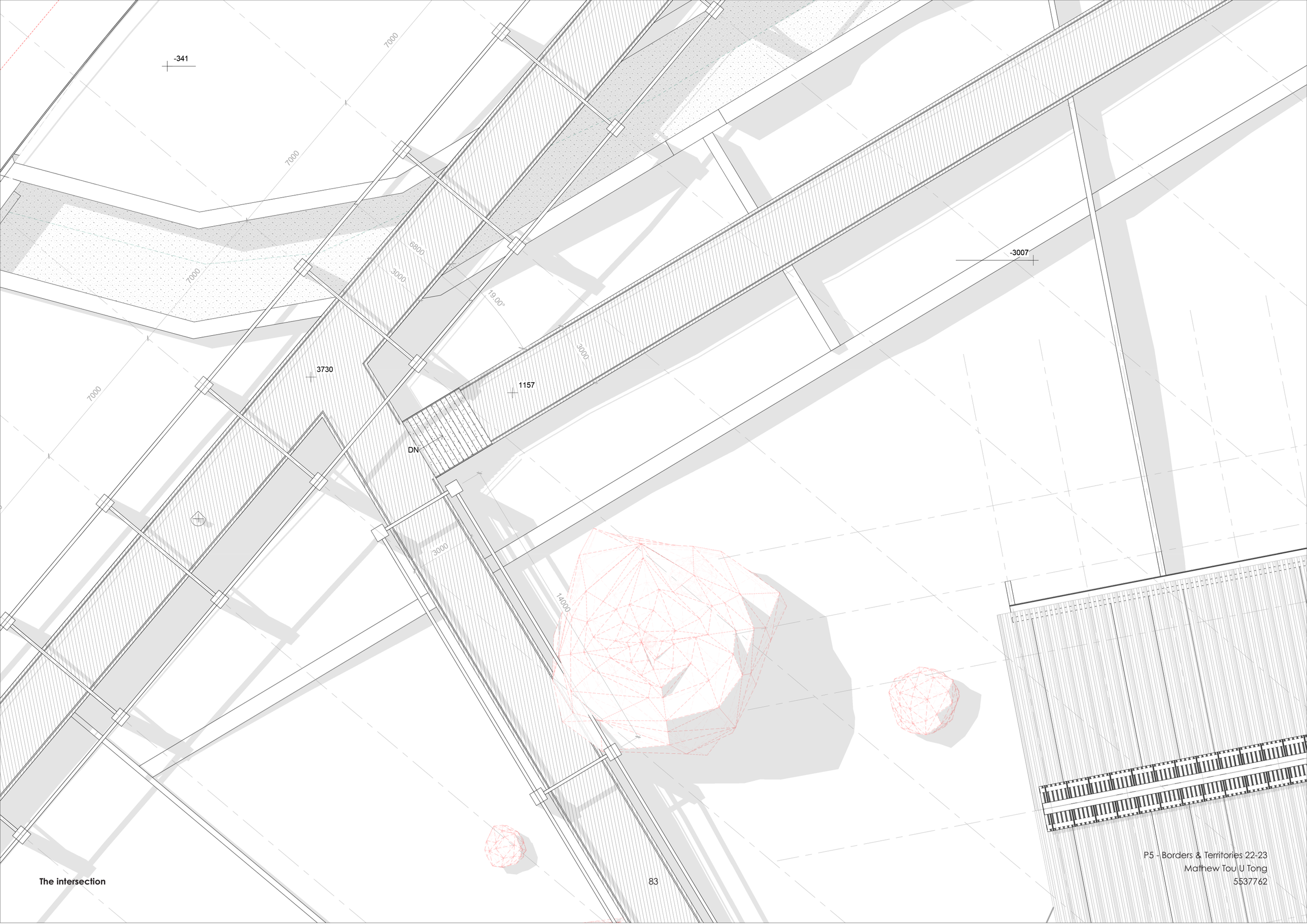
The Balikli Bathhouse, library & a park - Isometric - outdoor pools circulation

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
7000
119000

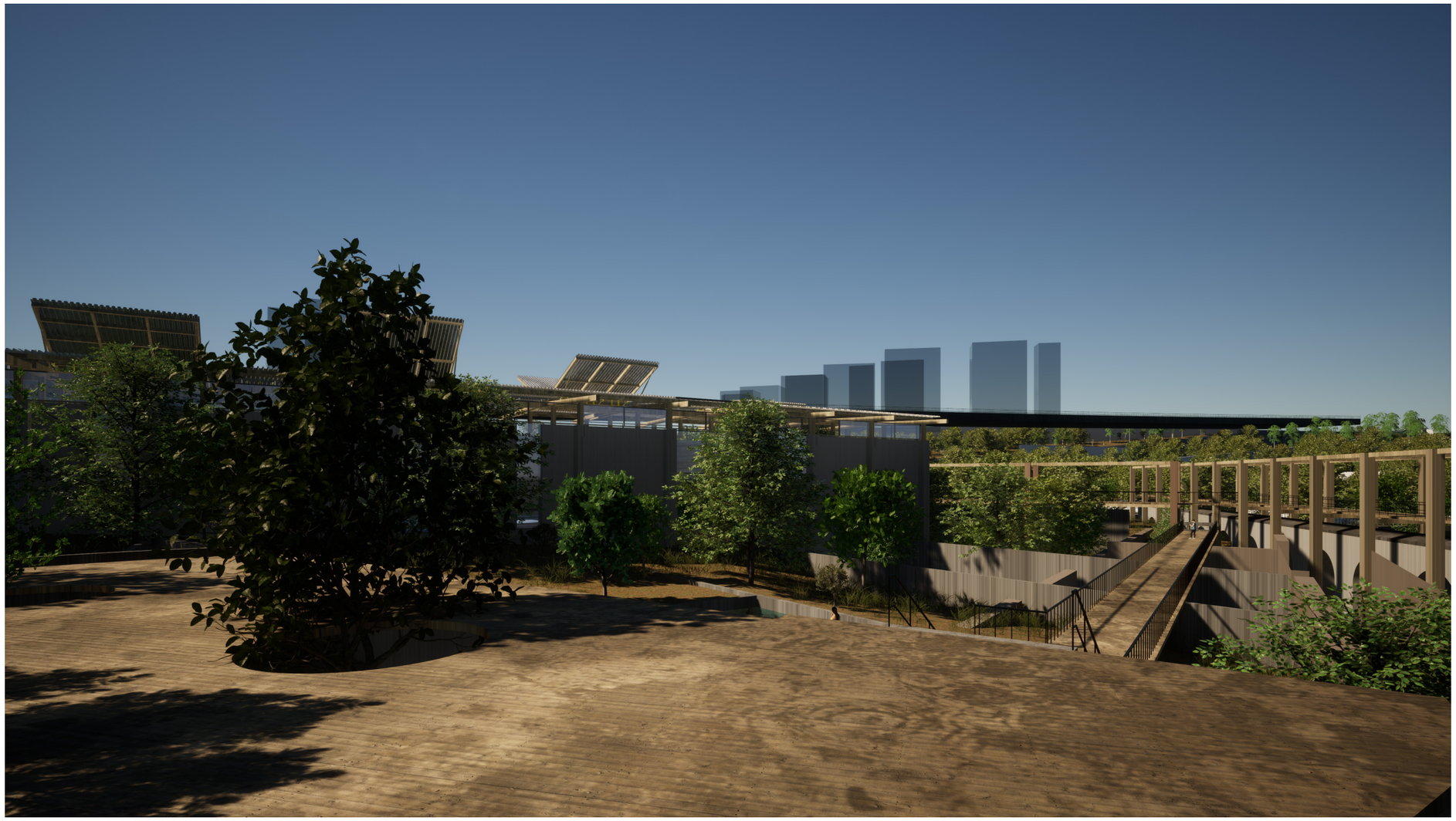

Bathhouse main hall roof
11910
6800
8990
4420
Balikli Aqueduct / Bathhouse main hall
2920
1920
Aqueduct Water Level
1000
1000
Landscape Ground Level
0
2920



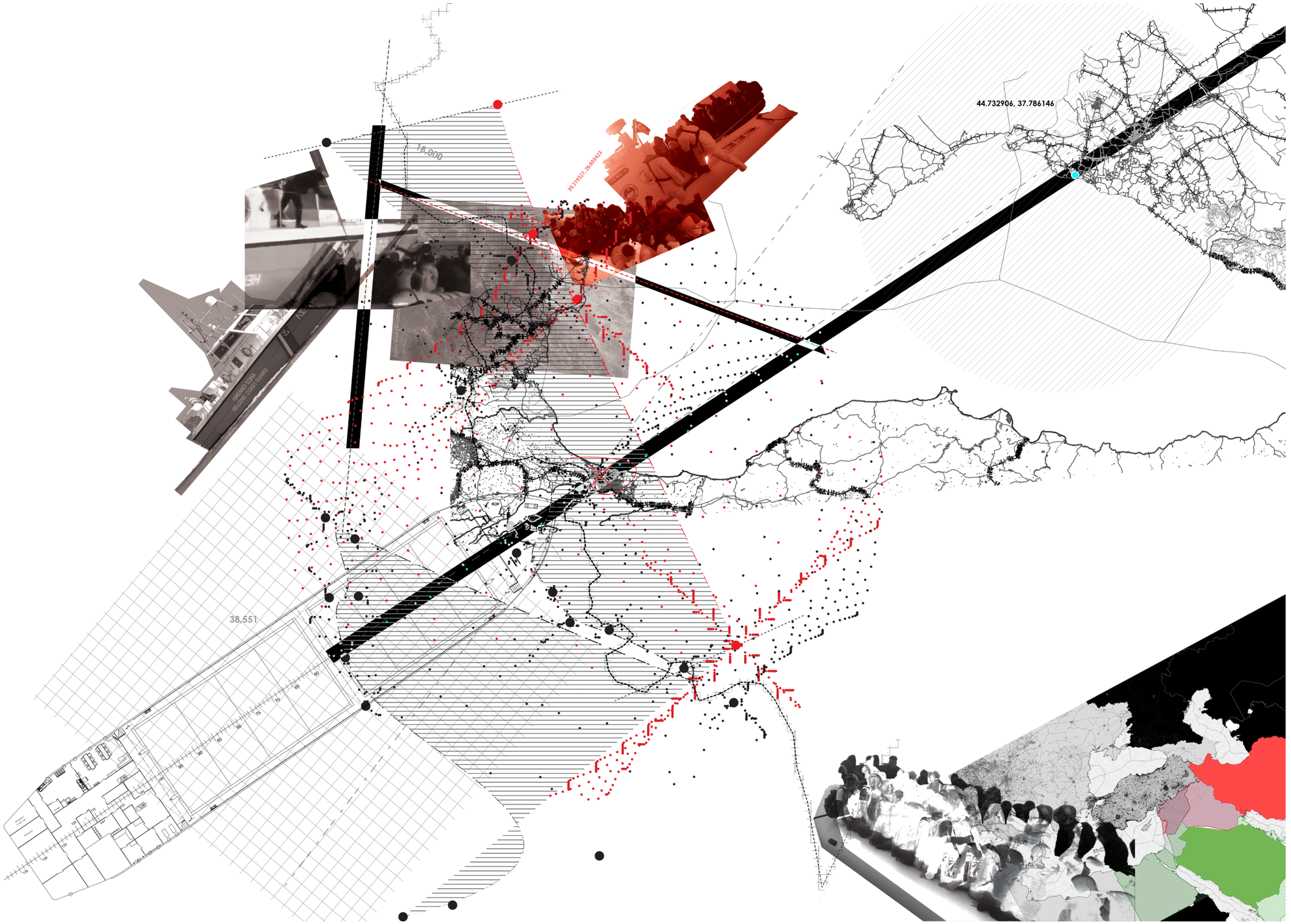


The intersection

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762







Map 02. Prosperity & Chaos

P5 - Borders & Territories 22-23
Mathew Tou U Tong
5537762



Reflection

Thank you.

Marc
Stefano
Pierre